REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-90622-2
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil and Water	Samples Collected:	05/21/2013
Reviewer:	Karen Marie Trujillo, URS Group, Inc.	Date:	06/16/2013
Concurrence[2]:	Nicole Lancaster/Martha Meyers-Lee, URS Group, Inc.	Date:	06/18/2013

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?	✓			MB 660-137790/1-A: Phenanthrene @ 5.84 µg/Kg (RL 7.9, MDL 3.9)	
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 680-90622-15 (052113-RB-Shovel).	

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

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 680-90622-15 (052113-RB-Shovel) was collected during the week of 5/20/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-90662-1.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)	✓			Phenanthrene blank contamination action level (BCAL)[3] is 29.2 µg/Kg (5.84 µg/Kg x 5). Sample-specific BCALs were developed by multiplying the BCAL by the sample dilution factor and dividing it by the percent solids. Sample results that were less than the sample-specific BCAL were U-flagged, and the sample detection limit elevated to the amount found in the sample.	U
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: BSMA5973 • Initial Calibration: 05/23/2013 • ICV: 05/23/13 @ 14:37 • CCV: 05/29/13 @ 15:18 • Instrument ID: BSMD5973 • Initial Calibration: 05/23/2013 • ICV: 05/23/13 @ 15:41 • CCV: 05/29/13 @ 15:12 • CCV: 06/03/13 @ 10:59	

[3] BCAL developed based on the maximum amount observed in all blanks

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with individual CCC %RSD ≤30 (≤50% for poor performers), OR r≥0.995, OR r^2≥0.99, and RRF ≥0.050 (≥0.010 for poor performers)): o If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects o If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: ≤20%D (≤50% for poor performers) and RF ≥0.050 (≥0.010 for poor performers)): o If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects o If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds	✓				
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects.			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			• Prep Batch 137790: 680-90622-24 (CV0525B-CS-SP), MS/MSD • Prep Batch 137845: 680-90686-7 (Batch sample), MS/MSD. Lab sample 680-90686-7 is a project-specific sample (CV0992B-CS) that was selected by TestAmerica for the PAH MS/MSD analyses, and the results were reported under Job ID 680-90686-1.	
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible.		✓		CV0525B-CS-SP (680-90622-24): Benzo[a]pyrene @ 44 and 65 %R (49-130). Qualification of data not required[4].	

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

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
• 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? *Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result.	✓				
27. Were surrogate recoveries within lab/project specifications? • If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results • If 2 or more Acid or BN %R >UCL, then J-flag positive results • If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results.		✓		Zero recovery (30-130%R) reported for o-Terphenyl during the analysis of the following samples: • CV0729A-CS-SP (680-90662-25) • CV1016A-CS-SP (680-90662-27) Qualification of data is not required, because the surrogate was not recovered due to sample dilution.	
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint 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	✓				

Data Validation Checklist (Continued)

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

DV Flag Definitions:

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

ATTACHMENT A

SAMPLE SUMMARY

Sample Summary

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

TestAmerica Job ID: 680-90622-2
SDG: 68090622-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90622-22	CV1358B-CS	Solid	05/21/13 09:40	05/23/13 09:30
680-90622-23	CV0525A-CS-SP	Solid	05/21/13 09:51	05/23/13 09:30
680-90622-24	CV0525B-CS-SP	Solid	05/21/13 10:05	05/23/13 09:30
680-90622-25	CV0729A-CS-SP	Solid	05/21/13 09:07	05/23/13 09:30
680-90622-26	CV0729B-CS-SP	Solid	05/21/13 09:21	05/23/13 09:30
680-90622-27	CV1016A-CS-SP	Solid	05/21/13 10:58	05/23/13 09:30
680-90622-28	FM0217A-CS	Solid	05/21/13 15:00	05/23/13 09:30
680-90622-29	CV0828A-CS-SP	Solid	05/21/13 13:43	05/23/13 09:30
680-90622-30	CV0828B-CS-SP	Solid	05/21/13 14:02	05/23/13 09:30
680-90622-31	CV0828C-CS-SP	Solid	05/21/13 13:55	05/23/13 09:30
680-90622-32	CV0838A-CS-SP	Solid	05/21/13 14:30	05/23/13 09:30
680-90622-33	CV0838B-CS-SP	Solid	05/21/13 14:41	05/23/13 09:30
680-90622-34	CV0912A-CS-SP	Solid	05/21/13 15:15	05/23/13 09:30
680-90622-35	CV0912B-CS-SP	Solid	05/21/13 15:22	05/23/13 09:30
680-90622-36	CV0912C-CS-SP	Solid	05/21/13 15:40	05/23/13 09:30
680-90622-37	CV0912D-CS-SP	Solid	05/21/13 15:50	05/23/13 09:30
680-90622-38	CV1189A-CS-SP	Solid	05/21/13 13:03	05/23/13 09:30
680-90622-39	CV1189B-CS-SP	Solid	05/21/13 13:15	05/23/13 09:30

ATTACHMENT B

CASE NARRATIVE

Job ID: 680-90622-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90622-2

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 05/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.6 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1358B-CS (680-90622-22), CV0525A-CS-SP (680-90622-23), CV0525B-CS-SP (680-90622-24), CV0729A-CS-SP (680-90622-25), CV0729B-CS-SP (680-90622-26), CV1016A-CS-SP (680-90622-27), FM0217A-CS (680-90622-28), CV0828A-CS-SP (680-90622-29), CV0828B-CS-SP (680-90622-30), CV0828C-CS-SP (680-90622-31), CV0838A-CS-SP (680-90622-32), CV0838B-CS-SP (680-90622-33), CV0912A-CS-SP (680-90622-34), CV0912B-CS-SP (680-90622-35), CV0912C-CS-SP (680-90622-36), CV0912D-CS-SP (680-90622 37), CV1189A CS-SP (680 90622 38) and CV1189B CS SP (680-90622 39) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/24/2013 and 05/29/2013 and analyzed on 05/29/2013, 05/30/2013 and 06/03/2013.

Samples CV1358B-CS (680-90622-22)[4X], CV0525A-CS-SP (680-90622-23)[4X], CV0729A-CS-SP (680-90622-25)[10X], CV0729B-CS-SP (680-90622-26)[4X], CV1016A-CS-SP (680-90622-27)[10X], FM0217A-CS (680-90622-28)[4X], CV0828A-CS-SP (680-90622-29)[4X], CV0912A-CS-SP (680-90622-34)[20X], CV0912A-CS-SP (680-90622-34)[4X], CV0912B-CS-SP (680-90622-35)[4X], CV0912C-CS-SP (680-90622-36)[4X], CV0912D-CS-SP (680-90622-37)[4X], CV1189A-CS-SP (680-90622-38)[4X] and CV1189B-CS-SP (680-90622-39)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Phenanthrene was detected in method blank MB 660-137790/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

o-Terphenyl recovered outside the surrogate recovery criteria for CV0729A-CS-SP (680-90622-25) and CV1016A-CS-SP (680-90622-27).

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample CV0525B-CS-SPMS (680-90622-24) in batch 660-137911.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-90686-7 in batch 660-137876. Benzo[g,h,i]perylene and Chrysene exceeded the RPD limit.

No other difficulties were encountered during the SVOAs analysis.

Job ID: 680-90622-2 (Continued)

Laboratory: TestAmerica Savannah (Continued)

All other quality control parameters were within the acceptance limits.

ATTACHMENT C

QUALIFIED SAMPLE RESULTS

Client Sample ID: CV1358B-CS

Lab Sample ID: 680-90622-22

Date Collected: 05/21/13 09:40
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 69.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	580	U	580	120	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Acenaphthylene	**48**	**J**	230	29	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Anthracene	**89**		48	24	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Benzo[a]anthracene	**340**		46	23	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Benzo[a]pyrene	**350**		60	30	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Benzo[b]fluoranthene	**500**		70	35	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Benzo[g,h,i]perylene	**290**		120	25	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Benzo[k]fluoranthene	**150**		46	21	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Chrysene	**460**		52	26	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Dibenz(a,h)anthracene	**98**	**J**	120	24	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Fluoranthene	**540**		120	23	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Fluorene	**27**	**J**	120	24	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Indeno[1,2,3-cd]pyrene	**270**		120	41	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
1-Methylnaphthalene	**390**		230	25	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
2-Methylnaphthalene	**470**		230	41	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Naphthalene	**350**		230	25	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Phenanthrene	**550**	**B**	46	23	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Pyrene	**560**		120	21	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*05/24/13 12:33*	*05/29/13 19:17*	*4*

Client Sample ID: CV0525A-CS-SP

Lab Sample ID: 680-90622-23

Date Collected: 05/21/13 09:51
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	99	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Acenaphthylene	**41**	**J**	200	25	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Anthracene	**56**		42	21	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Benzo[a]anthracene	**320**		40	19	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Benzo[a]pyrene	**290**		52	26	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Benzo[b]fluoranthene	**460**		61	30	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Benzo[g,h,i]perylene	**220**		99	22	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Benzo[k]fluoranthene	**160**		40	18	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Chrysene	**580**		45	22	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Dibenz(a,h)anthracene	**94**	**J**	99	20	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Fluoranthene	**400**		99	20	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Fluorene	**42**	**J**	99	20	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Indeno[1,2,3-cd]pyrene	**230**		99	35	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
1-Methylnaphthalene	**310**		200	22	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
2-Methylnaphthalene	**470**		200	35	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Naphthalene	**310**		200	22	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Phenanthrene	**540**	**B**	40	19	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Pyrene	**410**		99	18	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*05/24/13 12:33*	*05/29/13 19:40*	*4*

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

TestAmerica Job ID: 680-90622-2
SDG: 68090622-2

Client Sample ID: CV0525B-CS-SP

Lab Sample ID: 680-90622-24

Date Collected: 05/21/13 10:05
Date Received: 05/23/13 09:30

Matrix: Solid
Percent Solids: 74.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	45	J	140	27	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Acenaphthylene	30	J	54	6.8	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Anthracene	46		11	5.7	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Benzo[a]anthracene	200		11	5.3	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Benzo[a]pyrene	220	F	14	7.0	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Benzo[b]fluoranthene	390		16	8.2	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Benzo[g,h,i]perylene	180		27	5.9	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Benzo[k]fluoranthene	110		11	4.9	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Chrysene	430		12	6.1	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Dibenz(a,h)anthracene	66		27	5.5	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Fluoranthene	300		27	5.4	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Fluorene	31		27	5.5	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Indeno[1,2,3-cd]pyrene	170		27	9.6	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
1-Methylnaphthalene	220		54	5.9	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
2-Methylnaphthalene	430		54	9.6	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Naphthalene	460		54	5.9	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Phenanthrene	330	B	11	5.3	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Pyrene	280		27	5.0	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*05/24/13 12:33*	*05/29/13 20:02*	*1*

Client Sample ID: CV0729A-CS-SP

Lab Sample ID: 680-90622-25

Date Collected: 05/21/13 09:07
Date Received: 05/23/13 09:30

Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1200	U	1200	240	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Acenaphthylene	480	U	480	59	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Anthracene	100	U	100	50	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Benzo[a]anthracene	190		95	46	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Benzo[a]pyrene	150		120	62	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Benzo[b]fluoranthene	140		140	72	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Benzo[g,h,i]perylene	110	J	240	52	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Benzo[k]fluoranthene	44	J	95	43	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Chrysene	120		110	53	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Dibenz(a,h)anthracene	89	J	240	49	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Fluoranthene	140	J	240	48	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Fluorene	240	U	240	49	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Indeno[1,2,3-cd]pyrene	180	J	240	84	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
1-Methylnaphthalene	480	U	480	52	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
2-Methylnaphthalene	480	U	480	84	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Naphthalene	480	U	480	52	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Phenanthrene	140	B	95	46	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Pyrene	130	J	240	44	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*30 - 130*	*05/24/13 12:33*	*06/03/13 11:59*	*10*

Client Sample ID: CV0729B-CS-SP

Lab Sample ID: 680-90622-26

Date Collected: 05/21/13 09:21
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Acenaphthylene	**120**	**J**	210	26	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Anthracene	**170**		43	22	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Benzo[a]anthracene	**440**		41	20	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Benzo[a]pyrene	**410**		54	27	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Benzo[b]fluoranthene	**720**		63	31	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Benzo[g,h,i]perylene	**220**		100	23	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Benzo[k]fluoranthene	**220**		41	19	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Chrysene	**670**		46	23	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Dibenz(a,h)anthracene	**100**		100	21	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Fluoranthene	**620**		100	21	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Fluorene	**24**	**J**	100	21	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Indeno[1,2,3-cd]pyrene	**240**		100	37	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
1-Methylnaphthalene	**230**		210	23	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
2-Methylnaphthalene	**170**	**J**	210	37	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Naphthalene	**98**	**J**	210	23	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Phenanthrene	**390**	**B**	41	20	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Pyrene	**640**		100	19	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*05/24/13 12:33*	*05/29/13 21:33*	*4*

Client Sample ID: CV1016A-CS-SP

Lab Sample ID: 680-90622-27

Date Collected: 05/21/13 10:58
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1300	U	1300	250	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Acenaphthylene	**110**	**J**	500	63	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Anthracene	**120**		110	53	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Benzo[a]anthracene	**390**		100	49	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Benzo[a]pyrene	**410**		130	65	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Benzo[b]fluoranthene	**710**		150	77	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Benzo[g,h,i]perylene	**420**		250	55	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Benzo[k]fluoranthene	**260**		100	45	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Chrysene	**520**		110	57	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Dibenz(a,h)anthracene	**280**		250	52	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Fluoranthene	**480**		250	50	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Fluorene	250	U	250	52	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Indeno[1,2,3-cd]pyrene	**460**		250	89	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
1-Methylnaphthalene	**200**	**J**	500	55	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
2-Methylnaphthalene	**200**	**J**	500	89	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Naphthalene	**130**	**J**	500	55	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Phenanthrene	**450**	**B**	100	49	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Pyrene	**480**		250	47	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*30 - 130*	*05/24/13 12:33*	*06/03/13 12:21*	*10*

Client Sample ID: FM0217A-CS

Lab Sample ID: 680-90622-28

Date Collected: 05/21/13 15:00
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 67.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	590	U	590	120	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Acenaphthylene	240	U	240	30	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Anthracene	**27**	**J**	50	25	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Benzo[a]anthracene	**110**		48	23	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Benzo[a]pyrene	**120**		62	31	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Benzo[b]fluoranthene	**150**		73	36	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Benzo[g,h,i]perylene	**60**	**J**	120	26	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Benzo[k]fluoranthene	**52**		48	21	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Chrysene	**160**		53	27	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Dibenz(a,h)anthracene	**48**	**J**	120	24	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Fluoranthene	**160**		120	24	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Fluorene	120	U	120	24	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Indeno[1,2,3-cd]pyrene	**110**	**J**	120	42	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
1-Methylnaphthalene	**91**	**J**	240	26	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
2-Methylnaphthalene	**170**	**J**	240	42	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Naphthalene	**140**	**J**	240	26	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Phenanthrene	**150**	**B**	48	23	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Pyrene	**130**		120	22	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*05/24/13 12:33*	*05/29/13 22:18*	*4*

Client Sample ID: CV0828A-CS-SP

Lab Sample ID: 680-90622-29

Date Collected: 05/21/13 13:43
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Acenaphthylene	**39**	**J**	200	25	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Anthracene	**92**		42	21	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Benzo[a]anthracene	**390**		40	19	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Benzo[a]pyrene	**370**		52	26	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Benzo[b]fluoranthene	**550**		61	30	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Benzo[g,h,i]perylene	**160**		100	22	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Benzo[k]fluoranthene	**160**		40	18	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Chrysene	**570**		45	22	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Dibenz(a,h)anthracene	**87**	**J**	100	20	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Fluoranthene	**690**		100	20	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Fluorene	**32**	**J**	100	20	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Indeno[1,2,3-cd]pyrene	**200**		100	35	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
1-Methylnaphthalene	**140**	**J**	200	22	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
2-Methylnaphthalene	**120**	**J**	200	35	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Naphthalene	**77**	**J**	200	22	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Phenanthrene	**700**	**B**	40	19	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Pyrene	**780**		100	18	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*05/24/13 12:33*	*05/29/13 22:40*	*4*

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

TestAmerica Job ID: 680-90622-2
SDG: 68090622-2

Client Sample ID: CV0828B-CS-SP

Lab Sample ID: 680-90622-30

Date Collected: 05/21/13 14:02
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 75.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Acenaphthylene	**40**	**J**	52	6.4	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Anthracene	**88**		11	5.4	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Benzo[a]anthracene	**200**		10	5.0	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Benzo[a]pyrene	**180**		13	6.7	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Benzo[b]fluoranthene	**350**		16	7.9	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Benzo[g,h,i]perylene	**88**		26	5.7	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Benzo[k]fluoranthene	**100**		10	4.6	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Chrysene	**300**		12	5.8	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Dibenz(a,h)anthracene	**38**		26	5.3	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Fluoranthene	**350**		26	5.2	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Fluorene	**28**		26	5.3	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Indeno[1,2,3-cd]pyrene	**94**		26	9.2	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
1-Methylnaphthalene	**140**		52	5.7	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
2-Methylnaphthalene	**130**		52	9.2	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Naphthalene	**93**		52	5.7	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Phenanthrene	**380**	**B**	10	5.0	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Pyrene	**330**		26	4.8	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*05/24/13 12:33*	*05/29/13 23:03*	*1*

Client Sample ID: CV0828C-CS-SP

Lab Sample ID: 680-90622-31

Date Collected: 05/21/13 13:55
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 74.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Acenaphthylene	**29**	**J**	53	6.7	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Anthracene	**38**		11	5.6	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Benzo[a]anthracene	**110**		11	5.2	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Benzo[a]pyrene	**100**		14	6.9	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Benzo[b]fluoranthene	**180**		16	8.1	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Benzo[g,h,i]perylene	**63**		27	5.9	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Benzo[k]fluoranthene	**57**		11	4.8	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Chrysene	**160**		12	6.0	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Dibenz(a,h)anthracene	**26**	**J**	27	5.5	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Fluoranthene	**170**		27	5.3	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Fluorene	**14**	**J**	27	5.5	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Indeno[1,2,3-cd]pyrene	**58**		27	9.5	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
1-Methylnaphthalene	**110**		53	5.9	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
2-Methylnaphthalene	**150**		53	9.5	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Naphthalene	**170**		53	5.9	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Phenanthrene	**210**	**B**	11	5.2	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Pyrene	**160**		27	4.9	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*05/24/13 12:33*	*05/29/13 23:25*	*1*

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

TestAmerica Job ID: 680-90622-2
SDG: 68090622-2

Client Sample ID: CV0838A-CS-SP

Lab Sample ID: 680-90622-32

Date Collected: 05/21/13 14:30
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Acenaphthylene	**74**		49	6.1	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Anthracene	**84**		10	5.1	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Benzo[a]anthracene	**220**		9.8	4.8	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Benzo[a]pyrene	**190**		13	6.4	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Benzo[b]fluoranthene	**320**		15	7.5	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Benzo[g,h,i]perylene	**91**		24	5.4	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Benzo[k]fluoranthene	**92**		9.8	4.4	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Chrysene	**300**		11	5.5	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Dibenz(a,h)anthracene	**37**		24	5.0	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Fluoranthene	**340**		24	4.9	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Fluorene	**29**		24	5.0	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Indeno[1,2,3-cd]pyrene	**93**		24	8.7	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
1-Methylnaphthalene	**150**		49	5.4	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
2-Methylnaphthalene	**160**		49	8.7	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Naphthalene	**130**		49	5.4	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Phenanthrene	**320**	**B**	9.8	4.8	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Pyrene	**340**		24	4.5	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*05/24/13 12:33*	*05/29/13 23:48*	*1*

Client Sample ID: CV0838B-CS-SP

Lab Sample ID: 680-90622-33

Date Collected: 05/21/13 14:41
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Acenaphthylene	**80**		50	6.3	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Anthracene	**160**		11	5.3	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Benzo[a]anthracene	**400**		10	4.9	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Benzo[a]pyrene	**410**		13	6.6	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Benzo[b]fluoranthene	**790**		15	7.7	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Benzo[g,h,i]perylene	**200**		25	5.5	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Benzo[k]fluoranthene	**280**		10	4.5	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Chrysene	**490**		11	5.7	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Dibenz(a,h)anthracene	**80**		25	5.2	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Fluoranthene	**660**		25	5.0	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Fluorene	**32**		25	5.2	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Indeno[1,2,3-cd]pyrene	**220**		25	8.9	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
1-Methylnaphthalene	**170**		50	5.5	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
2-Methylnaphthalene	**190**		50	8.9	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Naphthalene	**170**		50	5.5	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Phenanthrene	**480**	**B**	10	4.9	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Pyrene	**560**		25	4.7	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*05/24/13 12:33*	*05/30/13 00:10*	*1*

Client Sample ID: CV0912A-CS-SP

Lab Sample ID: 680-90622-34

Date Collected: 05/21/13 15:15
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1100		530	110	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Acenaphthylene	330		210	26	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Anthracene	5200		44	22	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Benzo[a]anthracene	7300		42	21	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Benzo[a]pyrene	6200		55	27	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Benzo[b]fluoranthene	8700		64	32	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Benzo[g,h,i]perylene	2500		110	23	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Benzo[k]fluoranthene	3400		42	19	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Chrysene	6800		47	24	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Dibenz(a,h)anthracene	710		110	22	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Fluorene	450		110	22	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Indeno[1,2,3-cd]pyrene	2600		110	37	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
1-Methylnaphthalene	950		210	23	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
2-Methylnaphthalene	1000		210	37	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Naphthalene	780		210	23	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Pyrene	16000		110	19	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*05/24/13 12:33*	*05/30/13 00:33*	*4*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	22000		530	110	ug/Kg	☼	05/24/13 12:33	06/03/13 17:18	20
Phenanthrene	24000	B	210	100	ug/Kg	☼	05/24/13 12:33	06/03/13 17:18	20

Client Sample ID: CV0912B-CS-SP

Lab Sample ID: 680-90622-35

Date Collected: 05/21/13 15:22
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 75.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	J	520	100	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Acenaphthylene	96	J	210	26	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Anthracene	390		44	22	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Benzo[a]anthracene	1000		42	20	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Benzo[a]pyrene	900		54	27	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Benzo[b]fluoranthene	1400		64	32	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Benzo[g,h,i]perylene	390		100	23	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Benzo[k]fluoranthene	620		42	19	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Chrysene	1100		47	24	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Dibenz(a,h)anthracene	150		100	21	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Fluoranthene	2100		100	21	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Fluorene	120		100	21	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Indeno[1,2,3-cd]pyrene	430		100	37	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
1-Methylnaphthalene	89	J	210	23	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
2-Methylnaphthalene	120	J	210	37	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Naphthalene	100	J	210	23	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Phenanthrene	1400	B	42	20	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Pyrene	1600		100	19	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4

Client Sample ID: CV0912B-CS-SP

Lab Sample ID: 680-90622-35
Date Collected: 05/21/13 15:22
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 75.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	56		30 - 130	05/24/13 12:33	05/30/13 00:55	4

Client Sample ID: CV0912C-CS-SP

Lab Sample ID: 680-90622-36
Date Collected: 05/21/13 15:40
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	97	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Acenaphthylene	**70**	**J**	190	24	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Anthracene	**130**		41	20	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Benzo[a]anthracene	**410**		39	19	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Benzo[a]pyrene	**260**		50	25	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Benzo[b]fluoranthene	**370**		59	30	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Benzo[g,h,i]perylene	**280**		97	21	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Benzo[k]fluoranthene	**160**		39	17	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Chrysene	**330**		44	22	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Dibenz(a,h)an hracene	97	U	97	20	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Fluoranthene	**360**		97	19	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Fluorene	**22**	**J**	97	20	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Indeno[1,2,3-cd]pyrene	**240**		97	34	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
1-Methylnaphthalene	**37**	**J**	190	21	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
2-Methylnaphthalene	**68**	**J**	190	34	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Naphthalene	**72**	**J**	190	21	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Phenanthrene	**280**		39	19	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Pyrene	**420**		97	18	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	35		30 - 130	05/29/13 06:31	05/29/13 19:30	4

Client Sample ID: CV0912D-CS-SP

Lab Sample ID: 680-90622-37
Date Collected: 05/21/13 15:50
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 73.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Acenaphthylene	**57**	**J**	210	27	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Anthracene	**100**		45	23	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Benzo[a]anthracene	**520**		43	21	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Benzo[a]pyrene	**320**		56	28	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Benzo[b]fluoranthene	**470**		66	33	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Benzo[g,h,i]perylene	**300**		110	24	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Benzo[k]fluoranthene	**190**		43	19	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Chrysene	**460**		48	24	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Dibenz(a,h)anthracene	**130**		110	22	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Fluoranthene	**450**		110	21	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Fluorene	110	U	110	22	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Indeno[1,2,3-cd]pyrene	**240**		110	38	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
1-Methylnaphthalene	**60**	**J**	210	24	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
2-Methylnaphthalene	**94**	**J**	210	38	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4

Client Sample ID: CV0912D-CS-SP

Lab Sample ID: 680-90622-37

Date Collected: 05/21/13 15:50
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 73.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**81**	**J**	210	24	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Phenanthrene	**380**		43	21	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Pyrene	**590**		110	20	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*39*		*30 - 130*	*05/29/13 06:31*	*05/29/13 19:45*	*4*

Client Sample ID: CV1189A-CS-SP

Lab Sample ID: 680-90622-38

Date Collected: 05/21/13 13:03
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Acenaphthylene	200	U	200	24	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Anthracene	**42**		41	21	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Benzo[a]anthracene	39	U	39	19	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Benzo[a]pyrene	**94**		51	25	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Benzo[b]fluoranthene	**160**		60	30	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Benzo[g,h,i]perylene	**110**		98	22	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Benzo[k]fluoranthene	**41**		39	18	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Chrysene	**120**		44	22	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Dibenz(a,h)an hracene	98	U	98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Fluoranthene	**98**		98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Fluorene	98	U	98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Indeno[1,2,3-cd]pyrene	98	U	98	35	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
1-Methylnaphthalene	**63**	**J**	200	22	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
2-Methylnaphthalene	**78**	**J**	200	35	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Naphthalene	**48**	**J**	200	22	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Phenanthrene	**140**		39	19	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Pyrene	**140**		98	18	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*41*		*30 - 130*	*05/29/13 06:31*	*05/29/13 19:59*	*4*

Client Sample ID: CV1189B-CS-SP

Lab Sample ID: 680-90622-39

Date Collected: 05/21/13 13:15
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Acenaphthylene	200	U	200	24	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Anthracene	**27**	**J**	41	21	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Benzo[a]anthracene	**210**		39	19	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Benzo[a]pyrene	**120**		51	25	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Benzo[b]fluoranthene	**210**		60	30	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Benzo[g,h,i]perylene	**120**		98	22	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Benzo[k]fluoranthene	**59**		39	18	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Chrysene	**160**		44	22	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4

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

TestAmerica Job ID: 680-90622-2
SDG: 68090622-2

Client Sample ID: CV1189B-CS-SP
Date Collected: 05/21/13 13:15
Date Received: 05/23/13 09:30

Lab Sample ID: 680-90622-39
Matrix: Solid
Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)an hracene	98	U	98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Fluoranthene	**110**		98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Fluorene	98	U	98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Indeno[1,2,3-cd]pyrene	98	U	98	35	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
1-Methylnaphthalene	**68**	**J**	200	22	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
2-Methylnaphthalene	**86**	**J**	200	35	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Naphthalene	**63**	**J**	200	22	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Phenanthrene	**140**		39	19	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Pyrene	**140**		98	18	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*44*		*30 - 130*	*05/29/13 06:31*	*05/29/13 20:14*	*4*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-90622-2

SDG Number: 68090622-2

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
6/5/2013 4:38 PM

Designee for
Lisa Harvey, Project Manager II
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06/05/2013

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90622-2

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 05/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.6 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1358B-CS (680-90622-22), CV0525A-CS-SP (680-90622-23), CV0525B-CS-SP (680-90622-24), CV0729A-CS-SP (680-90622-25), CV0729B-CS-SP (680-90622-26), CV1016A-CS-SP (680-90622-27), FM0217A-CS (680-90622-28), CV0828A-CS-SP (680-90622-29), CV0828B-CS-SP (680-90622-30), CV0828C-CS-SP (680-90622-31), CV0838A-CS-SP (680-90622-32), CV0838B-CS-SP (680-90622-33), CV0912A-CS-SP (680-90622-34), CV0912B-CS-SP (680-90622-35), CV0912C-CS-SP (680-90622-36), CV0912D-CS-SP (680-90622-37), CV1189A-CS-SP (680-90622-38) and CV1189B-CS-SP (680-90622-39) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/24/2013 and 05/29/2013 and analyzed on 05/29/2013, 05/30/2013 and 06/03/2013.

Samples CV1358B-CS (680-90622-22)[4X], CV0525A-CS-SP (680-90622-23)[4X], CV0729A-CS-SP (680-90622-25)[10X], CV0729B-CS-SP (680-90622-26)[4X], CV1016A-CS-SP (680-90622-27)[10X], FM0217A-CS (680-90622-28)[4X], CV0828A-CS-SP (680-90622-29)[4X], CV0912A-CS-SP (680-90622-34)[20X], CV0912A-CS-SP (680-90622-34)[4X], CV0912B-CS-SP (680-90622-35)[4X], CV0912C-CS-SP (680-90622-36)[4X], CV0912D-CS-SP (680-90622-37)[4X], CV1189A-CS-SP (680-90622-38)[4X] and CV1189B-CS-SP (680-90622-39)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Phenanthrene was detected in method blank MB 660-137790/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

o-Terphenyl recovered outside the surrogate recovery criteria for CV0729A-CS-SP (680-90622-25) and CV1016A-CS-SP (680-90622-27).

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample CV0525B-CS-SPMS (680-90622-24) in batch 660-137911.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-90686-7 in batch 660-137876. Benzo[g,h,i]perylene and Chrysene 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: 680-90622-2
Sdg Number: 68090622-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-90622-22	CV1358B-CS	Solid	05/21/2013 0940	05/23/2013 0930
680-90622-23	CV0525A-CS-SP	Solid	05/21/2013 0951	05/23/2013 0930
680-90622-24	CV0525B-CS-SP	Solid	05/21/2013 1005	05/23/2013 0930
680-90622-24MS	CV0525B-CS-SP	Solid	05/21/2013 1005	05/23/2013 0930
680-90622-24MSD	CV0525B-CS-SP	Solid	05/21/2013 1005	05/23/2013 0930
680-90622-25	CV0729A-CS-SP	Solid	05/21/2013 0907	05/23/2013 0930
680-90622-26	CV0729B-CS-SP	Solid	05/21/2013 0921	05/23/2013 0930
680-90622-27	CV1016A-CS-SP	Solid	05/21/2013 1058	05/23/2013 0930
680-90622-28	FM0217A-CS	Solid	05/21/2013 1500	05/23/2013 0930
680-90622-29	CV0828A-CS-SP	Solid	05/21/2013 1343	05/23/2013 0930
680-90622-30	CV0828B-CS-SP	Solid	05/21/2013 1402	05/23/2013 0930
680-90622-31	CV0828C-CS-SP	Solid	05/21/2013 1355	05/23/2013 0930
680-90622-32	CV0838A-CS-SP	Solid	05/21/2013 1430	05/23/2013 0930
680-90622-33	CV0838B-CS-SP	Solid	05/21/2013 1441	05/23/2013 0930
680-90622-34	CV0912A-CS-SP	Solid	05/21/2013 1515	05/23/2013 0930
680-90622-35	CV0912B-CS-SP	Solid	05/21/2013 1522	05/23/2013 0930
680-90622-36	CV0912C-CS-SP	Solid	05/21/2013 1540	05/23/2013 0930
680-90622-37	CV0912D-CS-SP	Solid	05/21/2013 1550	05/23/2013 0930
680-90622-38	CV1189A-CS-SP	Solid	05/21/2013 1303	05/23/2013 0930
680-90622-39	CV1189B-CS-SP	Solid	05/21/2013 1315	05/23/2013 0930

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-2
Sdg Number: 68090622-2

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: 680-90622-2
Sdg Number: 68090622-2

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: 680-90622-2
Sdg Number: 68090622-2

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-2
Sdg Number: 68090622-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-137790					
LCS 660-137790/2-A	Lab Control Sample	T	Solid	3546	
MB 660-137790/1-A	Method Blank	T	Solid	3546	
680-90622-22	CV1358B-CS	T	Solid	3546	
680-90622-23	CV0525A-CS-SP	T	Solid	3546	
680-90622-24	CV0525B-CS-SP	T	Solid	3546	
680-90622-24MS	Matrix Spike	T	Solid	3546	
680-90622-24MSD	Matrix Spike Duplicate	T	Solid	3546	
680-90622-25	CV0729A-CS-SP	T	Solid	3546	
680-90622-26	CV0729B-CS-SP	T	Solid	3546	
680-90622-27	CV1016A-CS-SP	T	Solid	3546	
680-90622-28	FM0217A-CS	T	Solid	3546	
680-90622-29	CV0828A-CS-SP	T	Solid	3546	
680-90622-30	CV0828B-CS-SP	T	Solid	3546	
680-90622-31	CV0828C-CS-SP	T	Solid	3546	
680-90622-32	CV0838A-CS-SP	T	Solid	3546	
680-90622-33	CV0838B-CS-SP	T	Solid	3546	
680-90622-34	CV0912A-CS-SP	T	Solid	3546	
680-90622-34DL	CV0912A-CS-SP	T	Solid	3546	
680-90622-35	CV0912B-CS-SP	T	Solid	3546	
Prep Batch: 660-137845					
LCS 660-137845/2-A	Lab Control Sample	T	Solid	3546	
MB 660-137845/1-A	Method Blank	T	Solid	3546	
680-90622-36	CV0912C-CS-SP	T	Solid	3546	
680-90622-37	CV0912D-CS-SP	T	Solid	3546	
680-90622-38	CV1189A-CS-SP	T	Solid	3546	
680-90622-39	CV1189B-CS-SP	T	Solid	3546	
680-90686-A-7-B MS	Matrix Spike	T	Solid	3546	
680-90686-A-7-C MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-137876					
LCS 660-137845/2-A	Lab Control Sample	T	Solid	8270C LL	660-137845
MB 660-137845/1-A	Method Blank	T	Solid	8270C LL	660-137845
680-90622-36	CV0912C-CS-SP	T	Solid	8270C LL	660-137845
680-90622-37	CV0912D-CS-SP	T	Solid	8270C LL	660-137845
680-90622-38	CV1189A-CS-SP	T	Solid	8270C LL	660-137845
680-90622-39	CV1189B-CS-SP	T	Solid	8270C LL	660-137845
680-90686-A-7-B MS	Matrix Spike	T	Solid	8270C LL	660-137845
680-90686-A-7-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-137845

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-2
Sdg Number: 68090622-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-137911					
LCS 660-137790/2-A	Lab Control Sample	T	Solid	8270C LL	660-137790
MB 660-137790/1-A	Method Blank	T	Solid	8270C LL	660-137790
680-90622-22	CV1358B-CS	T	Solid	8270C LL	660-137790
680-90622-23	CV0525A-CS-SP	T	Solid	8270C LL	660-137790
680-90622-24	CV0525B-CS-SP	T	Solid	8270C LL	660-137790
680-90622-24MS	Matrix Spike	T	Solid	8270C LL	660-137790
680-90622-24MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-137790
680-90622-26	CV0729B-CS-SP	T	Solid	8270C LL	660-137790
680-90622-28	FM0217A-CS	T	Solid	8270C LL	660-137790
680-90622-29	CV0828A-CS-SP	T	Solid	8270C LL	660-137790
680-90622-30	CV0828B-CS-SP	T	Solid	8270C LL	660-137790
680-90622-31	CV0828C-CS-SP	T	Solid	8270C LL	660-137790
680-90622-32	CV0838A-CS-SP	T	Solid	8270C LL	660-137790
680-90622-33	CV0838B-CS-SP	T	Solid	8270C LL	660-137790
680-90622-34	CV0912A-CS-SP	T	Solid	8270C LL	660-137790
680-90622-35	CV0912B-CS-SP	T	Solid	8270C LL	660-137790
Analysis Batch:660-138011					
680-90622-25	CV0729A-CS-SP	T	Solid	8270C LL	660-137790
680-90622-27	CV1016A-CS-SP	T	Solid	8270C LL	660-137790
680-90622-34DL	CV0912A-CS-SP	T	Solid	8270C LL	660-137790

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-2
Sdg Number: 68090622-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-137757					
680-90622-24	CV0525B-CS-SP	T	Solid	Moisture	
680-90622-24MS	Matrix Spike	T	Solid	Moisture	
680-90622-24MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-90622-26	CV0729B-CS-SP	T	Solid	Moisture	
680-90622-27	CV1016A-CS-SP	T	Solid	Moisture	
680-90622-28	FM0217A-CS	T	Solid	Moisture	
680-90622-29	CV0828A-CS-SP	T	Solid	Moisture	
680-90622-30	CV0828B-CS-SP	T	Solid	Moisture	
680-90622-31	CV0828C-CS-SP	T	Solid	Moisture	
680-90622-32	CV0838A-CS-SP	T	Solid	Moisture	
680-90622-33	CV0838B-CS-SP	T	Solid	Moisture	
680-90622-34	CV0912A-CS-SP	T	Solid	Moisture	
680-90622-35	CV0912B-CS-SP	T	Solid	Moisture	
680-90622-36	CV0912C-CS-SP	T	Solid	Moisture	
680-90622-37	CV0912D-CS-SP	T	Solid	Moisture	
680-90622-38	CV1189A-CS-SP	T	Solid	Moisture	
680-90622-39	CV1189B-CS-SP	T	Solid	Moisture	
Analysis Batch:660-137823					
LCS 660-137823/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-137823/21	Lab Control Sample Duplicate	T	Solid	Moisture	
680-90622-23	CV0525A-CS-SP	T	Solid	Moisture	
680-90622-25	CV0729A-CS-SP	T	Solid	Moisture	
Analysis Batch:660-137835					
LCSD 660-137835/1	Lab Control Sample Duplicate	T	Solid	Moisture	
680-90622-22	CV1358B-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: BSMA5973 Analysis Batch Number: 137743

Lab Sample ID: IC 660-137743/3 Client Sample ID:

Date Analyzed: 05/23/13 12:51 Lab File ID: 1AE23003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthylene	3.46	Baseline Event	cantins	05/23/13 15:13
Anthracene	4.54	Baseline Event	cantins	05/23/13 15:12
Fluoranthene	5.37	Baseline Event	cantins	05/23/13 15:12
Pyrene	5.54	Baseline Event	cantins	05/23/13 15:12
Benzo[k]fluoranthene	7.36	Baseline Event	cantins	05/23/13 15:12
Indeno[1,2,3-cd]pyrene	8.39	Baseline Event	cantins	05/23/13 15:12
Benzo[g,h,i]perylene	8.59	Baseline Event	cantins	05/23/13 15:24

Lab Sample ID: IC 660-137743/4 Client Sample ID:

Date Analyzed: 05/23/13 13:06 Lab File ID: 1AE23004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	2.53	Baseline Event	cantins	05/23/13 15:13
1-Methylnaphthalene	2.99	Baseline Event	cantins	05/23/13 15:13
1,1'-Biphenyl	3.22	Baseline Event	cantins	05/23/13 15:14
Acenaphthylene	3.46	Baseline Event	cantins	05/23/13 15:14
Dibenzofuran	3.67	Baseline Event	cantins	05/23/13 15:14
Fluorene	3.88	Baseline Event	cantins	05/23/13 15:14
Phenanthrene	4.50	Baseline Event	cantins	05/23/13 15:14
Anthracene	4.54	Baseline Event	cantins	05/23/13 15:15
Fluoranthene	5.37	Baseline Event	cantins	05/23/13 15:15
Pyrene	5.54	Baseline Event	cantins	05/23/13 15:15
Chrysene	6.52	Baseline Event	cantins	05/23/13 15:15
Benzo[k]fluoranthene	7.34	Baseline Event	cantins	05/23/13 15:15
Indeno[1,2,3-cd]pyrene	8.35	Split Peak	cantins	05/23/13 15:16
Dibenz(a,h)anthracene	8.37	Baseline Event	cantins	05/23/13 15:15
Benzo[g,h,i]perylene	8.55	Baseline Event	cantins	05/23/13 15:15

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: BSMA5973 Analysis Batch Number: 137743

Lab Sample ID: IC 660-137743/5 Client Sample ID:

Date Analyzed: 05/23/13 13:21 Lab File ID: 1AE23005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	2.53	Baseline Event	cantins	05/23/13 15:18
1-Methylnaphthalene	2.99	Baseline Event	cantins	05/23/13 15:18
1,1'-Biphenyl	3.22	Baseline Event	cantins	05/23/13 15:21
Acenaphthylene	3.46	Baseline Event	cantins	05/23/13 15:21
Dibenzofuran	3.67	Baseline Event	cantins	05/23/13 15:22
Fluorene	3.88	Baseline Event	cantins	05/23/13 15:22
Fluoranthene	5.37	Baseline Event	cantins	05/23/13 15:22
Chrysene	6.53	Baseline Event	cantins	05/23/13 15:22
Benzo[k]fluoranthene	7.33	Baseline Event	cantins	05/23/13 15:22
Benzo[a]pyrene	7.54	Baseline Event	cantins	05/23/13 15:23
Indeno[1,2,3-cd]pyrene	8.33	Split Peak	cantins	05/23/13 15:23
Dibenz(a,h)anthracene	8.36	Baseline Event	cantins	05/23/13 15:22
Benzo[g,h,i]perylene	8.54	Baseline Event	cantins	05/23/13 15:23

Lab Sample ID: IC 660-137743/6 Client Sample ID:

Date Analyzed: 05/23/13 13:36 Lab File ID: 1AE23006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]pyrene	7.54	Baseline Event	cantins	05/23/13 15:23
Indeno[1,2,3-cd]pyrene	8.35	Split Peak	cantins	05/23/13 15:21
Dibenz(a,h)anthracene	8.37	Baseline Event	cantins	05/23/13 15:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: BSMA5973 Analysis Batch Number: 137743

Lab Sample ID: ICIS 660-137743/7 Client Sample ID:

Date Analyzed: 05/23/13 13:52 Lab File ID: 1AE23007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	7.35	Baseline Event	cantins	05/23/13 15:09
Indeno[1,2,3-cd]pyrene	8.36	Split Peak	cantins	05/23/13 15:08
Dibenz(a,h)anthracene	8.38	Baseline Event	cantins	05/23/13 15:08
Benzo[g,h,i]perylene	8.57	Baseline Event	cantins	05/23/13 15:08

Lab Sample ID: IC 660-137743/8 Client Sample ID:

Date Analyzed: 05/23/13 14:07 Lab File ID: 1AE23008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.35	Split Peak	cantins	05/23/13 15:20

Lab Sample ID: IC 660-137743/9 Client Sample ID:

Date Analyzed: 05/23/13 14:22 Lab File ID: 1AE23009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenzofuran	3.68	Baseline Event	cantins	05/23/13 15:18
Fluoranthene	5.38	Baseline Event	cantins	05/23/13 15:19
Pyrene	5.55	Baseline Event	cantins	05/23/13 15:19
Chrysene	6.54	Baseline Event	cantins	05/23/13 15:20
Benzo[k]fluoranthene	7.36	Baseline Event	cantins	05/23/13 15:19
Indeno[1,2,3-cd]pyrene	8.37	Split Peak	cantins	05/23/13 15:19
Benzo[g,h,i]perylene	8.59	Baseline Event	cantins	05/23/13 15:19

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: BSMA5973 Analysis Batch Number: 137743

Lab Sample ID: ICV 660-137743/10 Client Sample ID:

Date Analyzed: 05/23/13 14:37 Lab File ID: 1AE23010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoranthene	5.37	Baseline Event	cantins	05/23/13 15:32
Benzo[k]fluoranthene	7.34	Baseline Event	cantins	05/23/13 15:32

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: BSMA5973 Analysis Batch Number: 137876

Lab Sample ID: CCVIS 660-137876/7 Client Sample ID:

Date Analyzed: 05/29/13 15:18 Lab File ID: 1AE29006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	3.55	Baseline Event	cantins	05/29/13 15:31
Benzo[k]fluoranthene	7.32	Baseline Event	cantins	05/29/13 15:31
Indeno[1,2,3-cd]pyrene	8.31	Split Peak	cantins	05/29/13 15:31

Lab Sample ID: LCS 660-137845/2-A Client Sample ID:

Date Analyzed: 05/29/13 16:58 Lab File ID: 1AE29012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	2.52	Baseline Event	cantins	05/30/13 10:02
2-Methylnaphthalene	2.92	Baseline Event	cantins	05/30/13 10:02
1-Methylnaphthalene	2.98	Baseline Event	cantins	05/30/13 10:02
Pyrene	5.51	Baseline Event	cantins	05/30/13 10:01
Chrysene	6.51	Baseline Event	cantins	05/30/13 10:01
Benzo[k]fluoranthene	7.31	Baseline Event	cantins	05/30/13 10:01
Indeno[1,2,3-cd]pyrene	8.31	Split Peak	cantins	05/30/13 10:01
Dibenz(a,h)anthracene	8.33	Baseline Event	cantins	05/30/13 10:01
Benzo[g,h,i]perylene	8.52	Baseline Event	cantins	05/30/13 10:01

Lab Sample ID: 680-90622-36 Client Sample ID: CV0912C-CS-SP

Date Analyzed: 05/29/13 19:30 Lab File ID: 1AE29022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.31	Split Peak	cantins	06/04/13 10:43
Benzo[k]fluoranthene	7.32	Baseline Event	cantins	06/04/13 10:43
Indeno[1,2,3-cd]pyrene	8.33	Split Peak	cantins	06/04/13 10:44

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: BSMA5973 Analysis Batch Number: 137876

Lab Sample ID: 680-90622-37 Client Sample ID: CV0912D-CS-SP

Date Analyzed: 05/29/13 19:45 Lab File ID: 1AE29023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.31	Split Peak	cantins	06/04/13 10:45
Benzo[k]fluoranthene	7.32	Baseline Event	cantins	06/04/13 10:45
Indeno[1,2,3-cd]pyrene	8.33	Split Peak	cantins	06/04/13 10:45

Lab Sample ID: 680-90622-38 Client Sample ID: CV1189A-CS-SP

Date Analyzed: 05/29/13 19:59 Lab File ID: 1AE29024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.31	Split Peak	cantins	06/04/13 10:46
Benzo[k]fluoranthene	7.32	Baseline Event	cantins	06/04/13 10:46

Lab Sample ID: 680-90622-39 Client Sample ID: CV1189B-CS-SP

Date Analyzed: 05/29/13 20:14 Lab File ID: 1AE29025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Phenanthrene	4.50	Baseline Event	cantins	06/04/13 11:06
Benzo[b]fluoranthene	7.31	Split Peak	cantins	06/04/13 10:47
Benzo[k]fluoranthene	7.32	Baseline Event	cantins	06/04/13 10:48

Lab Sample ID: 680-90686-A-7-B MS Client Sample ID:

Date Analyzed: 05/29/13 22:15 Lab File ID: 1AE29033.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.32	Split Peak	cantins	05/30/13 15:48
Benzo[k]fluoranthene	7.33	Baseline Event	cantins	05/30/13 15:49
Indeno[1,2,3-cd]pyrene	8.35	Split Peak	cantins	05/30/13 15:49
Dibenz(a,h)anthracene	8.37	Baseline Event	cantins	05/30/13 15:49

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: BSMA5973 Analysis Batch Number: 137876

Lab Sample ID: 680-90686-A-7-C MSD Client Sample ID:

Date Analyzed: 05/29/13 22:30 Lab File ID: 1AE29034.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.32	Split Peak	cantins	05/30/13 15:50
Benzo[k]fluoranthene	7.33	Baseline Event	cantins	05/30/13 15:50
Indeno[1,2,3-cd]pyrene	8.35	Split Peak	cantins	05/30/13 15:50

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: BSMD5973 Analysis Batch Number: 137830

Lab 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.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: BSMD5973 Analysis Batch Number: 137911

Lab Sample ID: MB 660-137790/1-A Client Sample ID:

Date Analyzed: 05/29/13 15:37 Lab File ID: 1DE29006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Phenanthrene	9.22	Baseline Event	cantins	05/29/13 15:57

Lab Sample ID: 680-90622-22 Client Sample ID: CV1358B-CS

Date Analyzed: 05/29/13 19:17 Lab File ID: 1DE29014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/03/13 16:20

Lab Sample ID: 680-90622-23 Client Sample ID: CV0525A-CS-SP

Date Analyzed: 05/29/13 19:40 Lab File ID: 1DE29015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/03/13 16:21
Benzo[g,h,i]perylene	15.57	Baseline Event	cantins	06/03/13 16:20

Lab Sample ID: 680-90622-24 Client Sample ID: CV0525B-CS-SP

Date Analyzed: 05/29/13 20:02 Lab File ID: 1DE29016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.12	Split Peak	cantins	05/30/13 13:57

Lab Sample ID: 680-90622-24 MS Client Sample ID: CV0525B-CS-SP MS

Date Analyzed: 05/29/13 20:25 Lab File ID: 1DE29017.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	05/30/13 13:57

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: BSMD5973 Analysis Batch Number: 137911

Lab Sample ID: 680-90622-24 MSD Client Sample ID: CV0525B-CS-SP MSD

Date Analyzed: 05/29/13 20:48 Lab File ID: 1DE29018.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	05/30/13 13:58

Lab Sample ID: 680-90622-26 Client Sample ID: CV0729B-CS-SP

Date Analyzed: 05/29/13 21:33 Lab File ID: 1DE29020.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	06/03/13 16:22

Lab Sample ID: 680-90622-28 Client Sample ID: FM0217A-CS

Date Analyzed: 05/29/13 22:18 Lab File ID: 1DE29022.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	06/03/13 16:22

Lab Sample ID: 680-90622-29 Client Sample ID: CV0828A-CS-SP

Date Analyzed: 05/29/13 22:40 Lab File ID: 1DE29023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/03/13 16:23

Lab Sample ID: 680-90622-30 Client Sample ID: CV0828B-CS-SP

Date Analyzed: 05/29/13 23:03 Lab File ID: 1DE29024.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	06/03/13 16:24

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: BSMD5973 Analysis Batch Number: 137911

Lab Sample ID: 680-90622-31 Client Sample ID: CV0828C-CS-SP

Date Analyzed: 05/29/13 23:25 Lab File ID: 1DE29025.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	06/03/13 16:25

Lab Sample ID: 680-90622-32 Client Sample ID: CV0838A-CS-SP

Date Analyzed: 05/29/13 23:48 Lab File ID: 1DE29026.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	06/03/13 16:26

Lab Sample ID: 680-90622-33 Client Sample ID: CV0838B-CS-SP

Date Analyzed: 05/30/13 00:10 Lab File ID: 1DE29027.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	06/03/13 16:28

Lab Sample ID: 680-90622-34 Client Sample ID: CV0912A-CS-SP

Date Analyzed: 05/30/13 00:33 Lab File ID: 1DE29028.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	06/03/13 15:15

Lab Sample ID: 680-90622-35 Client Sample ID: CV0912B-CS-SP

Date Analyzed: 05/30/13 00:55 Lab File ID: 1DE29029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.12	Split Peak	cantins	06/03/13 16:40

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: BSMD5973 Analysis Batch Number: 138011

Lab Sample ID: 680-90622-25 Client Sample ID: CV0729A-CS-SP

Date Analyzed: 06/03/13 11:59 Lab File ID: 1DF03005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/03/13 15:13

Lab Sample ID: 680-90622-27 Client Sample ID: CV1016A-CS-SP

Date Analyzed: 06/03/13 12:21 Lab File ID: 1DF03006.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	06/03/13 15:14
Benzo[g,h,i]perylene	15.56	Baseline Event	cantins	06/03/13 15:14

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.: 680-90622-2

SDG No.: 68090622-2

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH	#
CV1358B-CS	680-90622-22	66	
CV0525A-CS-SP	680-90622-23	66	
CV0525B-CS-SP	680-90622-24	62	
CV0729A-CS-SP	680-90622-25	0	D
CV0729B-CS-SP	680-90622-26	57	
CV1016A-CS-SP	680-90622-27	0	D
FM0217A-CS	680-90622-28	68	
CV0828A-CS-SP	680-90622-29	66	
CV0828B-CS-SP	680-90622-30	67	
CV0828C-CS-SP	680-90622-31	62	
CV0838A-CS-SP	680-90622-32	66	
CV0838B-CS-SP	680-90622-33	65	
CV0912A-CS-SP	680-90622-34	66	
CV0912B-CS-SP	680-90622-35	56	
CV0912C-CS-SP	680-90622-36	35	
CV0912D-CS-SP	680-90622-37	39	
CV1189A-CS-SP	680-90622-38	41	
CV1189B-CS-SP	680-90622-39	44	
	MB 660-137790/1-A	66	
	MB 660-137845/1-A	49	
	LCS 660-137790/2-A	76	
	LCS 660-137845/2-A	55	
	680-90686-A-7-B MS	35	
CV0525B-CS-SP MS	680-90622-24 MS	58	
	680-90686-A-7-C MSD	31	
CV0525B-CS-SP MSD	680-90622-24 MSD	69	

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Matrix: Solid Level: Low Lab File ID: 1DE29007.D

Lab ID: LCS 660-137790/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	668	508	76	39-130	
Acenaphthylene	668	549	82	38-130	
Anthracene	668	565	84	37-130	
Benzo[a]anthracene	668	526	79	40-130	
Benzo[a]pyrene	668	487	73	49-130	
Benzo[b]fluoranthene	668	536	80	37-130	
Benzo[g,h,i]perylene	668	545	81	32-130	
Benzo[k]fluoranthene	668	558	83	32-130	
Chrysene	668	546	82	41-130	
Dibenz(a,h)anthracene	668	503	75	27-130	
Fluoranthene	668	563	84	40-130	
Fluorene	668	555	83	40-130	
Indeno[1,2,3-cd]pyrene	668	470	70	30-130	
1-Methylnaphthalene	668	493	74	31-130	
2-Methylnaphthalene	668	528	79	33-130	
Naphthalene	668	510	76	36-130	
Phenanthrene	668	544	81	42-130	
Pyrene	668	562	84	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Matrix: Solid Level: Low Lab File ID: 1AE29012.D

Lab ID: LCS 660-137845/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	650	395	61	39-130	
Acenaphthylene	650	383	59	38-130	
Anthracene	650	362	56	37-130	
Benzo[a]anthracene	650	417	64	40-130	
Benzo[a]pyrene	650	320	49	49-130	
Benzo[b]fluoranthene	650	261	40	37-130	
Benzo[g,h,i]perylene	650	412	63	32-130	
Benzo[k]fluoranthene	650	368	57	32-130	
Chrysene	650	429	66	41-130	
Dibenz(a,h)anthracene	650	346	53	27-130	
Fluoranthene	650	328	50	40-130	
Fluorene	650	415	64	40-130	
Indeno[1,2,3-cd]pyrene	650	314	48	30-130	
1-Methylnaphthalene	650	428	66	31-130	
2-Methylnaphthalene	650	405	62	33-130	
Naphthalene	650	412	63	36-130	
Phenanthrene	650	396	61	42-130	
Pyrene	650	395	61	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Matrix: Solid Level: Low Lab File ID: 1AE29033.D

Lab ID: 680-90686-A-7-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1100	150 J	671	47	39-130	
Acenaphthylene	1100	78 J	555	43	38-130	
Anthracene	1100	420	891	43	37-130	
Benzo[a]anthracene	1100	1300	1960	59	40-130	
Benzo[a]pyrene	1100	670	1160	45	49-130	F
Benzo[b]fluoranthene	1100	1200	1700	48	37-130	
Benzo[g,h,i]perylene	1100	370	721	32	32-130	
Benzo[k]fluoranthene	1100	300	741	40	32-130	
Chrysene	1100	990	1900	83	41-130	
Dibenz(a,h)anthracene	1100	150	552	37	27-130	
Fluoranthene	1100	1500	2110	55	40-130	
Fluorene	1100	130	632	46	40-130	
Indeno[1,2,3-cd]pyrene	1100	390	663	25	30-130	F
1-Methylnaphthalene	1100	240 J	734	45	31-130	
2-Methylnaphthalene	1100	300	935	58	33-130	
Naphthalene	1100	270	814	50	36-130	
Phenanthrene	1100	1500	2100	55	42-130	
Pyrene	1100	1400	2090	61	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Matrix: Solid Level: Low Lab File ID: 1DE29017.D

Lab ID: 680-90622-24 MS Client ID: CV0525B-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	903	45 J	584	60	39-130	
Acenaphthylene	903	30 J	638	67	38-130	
Anthracene	903	46	638	66	37-130	
Benzo[a]anthracene	903	200	715	57	40-130	
Benzo[a]pyrene	903	220	624	44	49-130	F
Benzo[b]fluoranthene	903	390	865	53	37-130	
Benzo[g,h,i]perylene	903	180	576	44	32-130	
Benzo[k]fluoranthene	903	110	609	56	32-130	
Chrysene	903	430	926	55	41-130	
Dibenz(a,h)anthracene	903	66	558	55	27-130	
Fluoranthene	903	300	804	56	40-130	
Fluorene	903	31	640	67	40-130	
Indeno[1,2,3-cd]pyrene	903	170	562	44	30-130	
1-Methylnaphthalene	903	220	807	65	31-130	
2-Methylnaphthalene	903	430	1130	78	33-130	
Naphthalene	903	460	1130	75	36-130	
Phenanthrene	903	330	926	66	42-130	
Pyrene	903	280	800	58	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Matrix: Solid Level: Low Lab File ID: 1AE29034.D

Lab ID: 680-90686-A-7-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1100	521 J	33	25	40	39-130	F
Acenaphthylene	1100	447	34	22	40	38-130	F
Anthracene	1100	772	32	14	40	37-130	F
Benzo[a]anthracene	1100	1490	16	27	40	40-130	F
Benzo[a]pyrene	1100	864	18	30	40	49-130	F
Benzo[b]fluoranthene	1100	1140	-3	40	40	37-130	F
Benzo[g,h,i]perylene	1100	477	10	41	40	32-130	F
Benzo[k]fluoranthene	1100	708	37	5	40	32-130	
Chrysene	1100	1190	18	46	40	41-130	F
Dibenz(a,h)anthracene	1100	375	21	38	40	27-130	F
Fluoranthene	1100	1760	24	18	40	40-130	F
Fluorene	1100	530	36	18	40	40-130	F
Indeno[1,2,3-cd]pyrene	1100	504	10	27	40	30-130	F
1-Methylnaphthalene	1100	688	41	6	40	31-130	
2-Methylnaphthalene	1100	873	53	7	40	33-130	
Naphthalene	1100	767	45	6	40	36-130	
Phenanthrene	1100	1760	24	18	40	42-130	F
Pyrene	1100	1520	9	32	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Matrix: Solid Level: Low Lab File ID: 1DE29018.D

Lab ID: 680-90622-24 MSD Client ID: CV0525B-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	903	686	71	16	40	39-130	
Acenaphthylene	903	728	77	13	40	38-130	
Anthracene	903	761	79	18	40	37-130	
Benzo[a]anthracene	903	931	81	26	40	40-130	
Benzo[a]pyrene	903	813	65	26	40	49-130	
Benzo[b]fluoranthene	903	1100	79	24	40	37-130	
Benzo[g,h,i]perylene	903	679	55	16	40	32-130	
Benzo[k]fluoranthene	903	805	77	28	40	32-130	
Chrysene	903	1200	86	26	40	41-130	
Dibenz(a,h)anthracene	903	663	66	17	40	27-130	
Fluoranthene	903	998	77	21	40	40-130	
Fluorene	903	737	78	14	40	40-130	
Indeno[1,2,3-cd]pyrene	903	689	58	20	40	30-130	
1-Methylnaphthalene	903	928	78	14	40	31-130	
2-Methylnaphthalene	903	1290	95	13	40	33-130	
Naphthalene	903	1300	93	14	40	36-130	
Phenanthrene	903	1130	89	20	40	42-130	
Pyrene	903	991	79	21	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Lab File ID: 1DE29006.D Lab Sample ID: MB 660-137790/1-A

Matrix: Solid Date Extracted: 05/24/2013 12:33

Instrument ID: BSMD5973 Date Analyzed: 05/29/2013 15:37

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-137790/2-A	1DE29007.D	05/29/2013 16:39
CV1358B-CS	680-90622-22	1DE29014.D	05/29/2013 19:17
CV0525A-CS-SP	680-90622-23	1DE29015.D	05/29/2013 19:40
CV0525B-CS-SP	680-90622-24	1DE29016.D	05/29/2013 20:02
CV0525B-CS-SP MS	680-90622-24 MS	1DE29017.D	05/29/2013 20:25
CV0525B-CS-SP MSD	680-90622-24 MSD	1DE29018.D	05/29/2013 20:48
CV0729B-CS-SP	680-90622-26	1DE29020.D	05/29/2013 21:33
FM0217A-CS	680-90622-28	1DE29022.D	05/29/2013 22:18
CV0828A-CS-SP	680-90622-29	1DE29023.D	05/29/2013 22:40
CV0828B-CS-SP	680-90622-30	1DE29024.D	05/29/2013 23:03
CV0828C-CS-SP	680-90622-31	1DE29025.D	05/29/2013 23:25
CV0838A-CS-SP	680-90622-32	1DE29026.D	05/29/2013 23:48
CV0838B-CS-SP	680-90622-33	1DE29027.D	05/30/2013 00:10
CV0912A-CS-SP	680-90622-34	1DE29028.D	05/30/2013 00:33
CV0912B-CS-SP	680-90622-35	1DE29029.D	05/30/2013 00:55

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Lab File ID: 1AE29009.D Lab Sample ID: MB 660-137845/1-A

Matrix: Solid Date Extracted: 05/29/2013 06:31

Instrument ID: BSMA5973 Date Analyzed: 05/29/2013 16:04

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-137845/2-A	1AE29012.D	05/29/2013 16:58
CV0912C-CS-SP	680-90622-36	1AE29022.D	05/29/2013 19:30
CV0912D-CS-SP	680-90622-37	1AE29023.D	05/29/2013 19:45
CV1189A-CS-SP	680-90622-38	1AE29024.D	05/29/2013 19:59
CV1189B-CS-SP	680-90622-39	1AE29025.D	05/29/2013 20:14
	680-90686-A-7-B MS	1AE29033.D	05/29/2013 22:15
	680-90686-A-7-C MSD	1AE29034.D	05/29/2013 22:30

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

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Lab File ID: 1AE23002.D DFTPP Injection Date: 05/23/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 11:41

Analysis Batch No.: 137743

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	50.0	
68	Less than 2.0 % of mass 69	0.7	(2.0)1
69	Mass 69 relative abundance	34.5	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	45.6	
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	22.7	
365	Greater than 1.0 % of mass 198	2.4	
441	Present but less than mass 443	8.9	
442	Greater than 50.0 % of mass 198	62.5	
443	15.0 - 24.0 % of mass 442	12.4	(19.9)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-137743/3	1AE23003.D	05/23/2013	12:51
	IC 660-137743/4	1AE23004.D	05/23/2013	13:06
	IC 660-137743/5	1AE23005.D	05/23/2013	13:21
	IC 660-137743/6	1AE23006.D	05/23/2013	13:36
	ICIS 660-137743/7	1AE23007.D	05/23/2013	13:52
	IC 660-137743/8	1AE23008.D	05/23/2013	14:07
	IC 660-137743/9	1AE23009.D	05/23/2013	14:22
	ICV 660-137743/10	1AE23010.D	05/23/2013	14:37

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

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Lab File ID: 1AE29005.D DFTPP Injection Date: 05/29/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 15:05

Analysis Batch No.: 137876

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	39.4	
68	Less than 2.0 % of mass 69	0.6	(1.8)1
69	Mass 69 relative abundance	35.4	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	43.0	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.5	
275	10.0 - 60.0 % of mass 198	27.8	
365	Greater than 1.0 % of mass 198	3.7	
441	Present but less than mass 443	11.3	
442	Greater than 50.0 % of mass 198	94.0	
443	15.0 - 24.0 % of mass 442	18.8	(20.0)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 660-137876/7	1AE29006.D	05/29/2013	15:18
	MB 660-137845/1-A	1AE29009.D	05/29/2013	16:04
	LCS 660-137845/2-A	1AE29012.D	05/29/2013	16:58
CV0912C-CS-SP	680-90622-36	1AE29022.D	05/29/2013	19:30
CV0912D-CS-SP	680-90622-37	1AE29023.D	05/29/2013	19:45
CV1189A-CS-SP	680-90622-38	1AE29024.D	05/29/2013	19:59
CV1189B-CS-SP	680-90622-39	1AE29025.D	05/29/2013	20:14
	680-90686-A-7-B MS	1AE29033.D	05/29/2013	22:15
	680-90686-A-7-C MSD	1AE29034.D	05/29/2013	22:30

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

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

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.: 680-90622-2

SDG No.: 68090622-2

Lab File ID: 1DE29002.D DFTPP Injection Date: 05/29/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 13:43

Analysis Batch No.: 137911

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	51.7	
68	Less than 2.0 % of mass 69	0.9	(1.9)1
69	Mass 69 relative abundance	47.0	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	49.3	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.2	
275	10.0 - 60.0 % of mass 198	29.5	
365	Greater than 1.0 % of mass 198	3.8	
441	Present but less than mass 443	11.6	
442	Greater than 50.0 % of mass 198	81.0	
443	15.0 - 24.0 % of mass 442	16.1	(19.9)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-137911/5	1DE29005.D	05/29/2013	15:12
	MB 660-137790/1-A	1DE29006.D	05/29/2013	15:37
	LCS 660-137790/2-A	1DE29007.D	05/29/2013	16:39
CV1358B-CS	680-90622-22	1DE29014.D	05/29/2013	19:17
CV0525A-CS-SP	680-90622-23	1DE29015.D	05/29/2013	19:40
CV0525B-CS-SP	680-90622-24	1DE29016.D	05/29/2013	20:02
CV0525B-CS-SP MS	680-90622-24 MS	1DE29017.D	05/29/2013	20:25
CV0525B-CS-SP MSD	680-90622-24 MSD	1DE29018.D	05/29/2013	20:48
CV0729B-CS-SP	680-90622-26	1DE29020.D	05/29/2013	21:33
FM0217A-CS	680-90622-28	1DE29022.D	05/29/2013	22:18
CV0828A-CS-SP	680-90622-29	1DE29023.D	05/29/2013	22:40
CV0828B-CS-SP	680-90622-30	1DE29024.D	05/29/2013	23:03
CV0828C-CS-SP	680-90622-31	1DE29025.D	05/29/2013	23:25
CV0838A-CS-SP	680-90622-32	1DE29026.D	05/29/2013	23:48
CV0838B-CS-SP	680-90622-33	1DE29027.D	05/30/2013	00:10
CV0912A-CS-SP	680-90622-34	1DE29028.D	05/30/2013	00:33
CV0912B-CS-SP	680-90622-35	1DE29029.D	05/30/2013	00:55

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

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Lab File ID: 1DF03002.D DFTPP Injection Date: 06/03/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 10:41

Analysis Batch No.: 138011

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	46.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	46.7	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	52.4	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.0	
275	10.0 - 60.0 % of mass 198	25.8	
365	Greater than 1.0 % of mass 198	3.4	
441	Present but less than mass 443	8.3	
442	Greater than 50.0 % of mass 198	57.6	
443	15.0 - 24.0 % of mass 442	10.8	(18.7)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 660-138011/3	1DF03003.D	06/03/2013	10:59
CV0729A-CS-SP	680-90622-25	1DF03005.D	06/03/2013	11:59
CV1016A-CS-SP	680-90622-27	1DF03006.D	06/03/2013	12:21
CV0912A-CS-SP DL	680-90622-34 DL	1DF03014.D	06/03/2013	17:18

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

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Sample No.: ICIS 660-137743/7 Date Analyzed: 05/23/2013 13:52

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

Lab File ID (Standard): 1AE23007.D Heated Purge: (Y/N) N

Calibration ID: 2980

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1225593	2.53	677570	3.55	1226779	4.50
UPPER LIMIT		2451186	3.03	1355140	4.05	2453558	5.00
LOWER LIMIT		612797	2.03	338785	3.05	613390	4.00
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-137743/10		1091029	2.52	597262	3.55	1081344	4.50

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Sample No.: ICIS 660-137743/7 Date Analyzed: 05/23/2013 13:52

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

Lab File ID (Standard): 1AE23007.D Heated Purge: (Y/N) N

Calibration ID: 2980

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1124722	6.51	1011274	7.60		
UPPER LIMIT		2249444	7.01	2022548	8.10		
LOWER LIMIT		562361	6.01	505637	7.10		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-137743/10		1116055	6.51	937247	7.60		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Sample No.: CCVIS 660-137876/7 Date Analyzed: 05/29/2013 15:18

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

Lab File ID (Standard): 1AE29006.D Heated Purge: (Y/N) N

Calibration ID: 2980

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		932710	2.51	490870	3.53	840693	4.48
UPPER LIMIT		1865420	3.01	981740	4.03	1681386	4.98
LOWER LIMIT		466355	2.01	245435	3.03	420347	3.98
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137845/1-A		1343682	2.51	846854	3.53	1211040	4.48
LCS 660-137845/2-A		1203952	2.51	731060	3.54	1210659	4.48
680-90622-36	CV0912C-CS-SP	936266	2.52	637202	3.54	901974	4.48
680-90622-37	CV0912D-CS-SP	1040375	2.52	727011	3.54	1019736	4.49
680-90622-38	CV1189A-CS-SP	966577	2.52	610253	3.54	891414	4.48
680-90622-39	CV1189B-CS-SP	955705	2.52	607101	3.54	889133	4.49
680-90686-A-7-B MS		935988	2.52	609946	3.54	911214	4.49
680-90686-A-7-C MSD		925757	2.52	586300	3.54	905288	4.49

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Sample No.: CCVIS 660-137876/7 Date Analyzed: 05/29/2013 15:18

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

Lab File ID (Standard): 1AE29006.D Heated Purge: (Y/N) N

Calibration ID: 2980

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		799224	6.49	651433	7.57		
UPPER LIMIT		1598448	6.99	1302866	8.07		
LOWER LIMIT		399612	5.99	325717	7.07		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137845/1-A		1139541	6.49	1014927	7.58		
LCS 660-137845/2-A		980501	6.50	811272	7.58		
680-90622-36	CV0912C-CS-SP	562265	6.50	781752	7.60		
680-90622-37	CV0912D-CS-SP	631926	6.51	686611	7.60		
680-90622-38	CV1189A-CS-SP	535998	6.50	586276	7.60		
680-90622-39	CV1189B-CS-SP	588822	6.51	623734	7.60		
680-90686-A-7-B MS		705724	6.52	695547	7.61		
680-90686-A-7-C MSD		762174	6.51	814583	7.61		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

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 = ± 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.: 680-90622-2

SDG No.: 68090622-2

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 = ± 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.: 680-90622-2

SDG No.: 68090622-2

Sample No.: CCVIS 660-137911/5 Date Analyzed: 05/29/2013 15:12

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

Lab File ID (Standard): 1DE29005.D Heated Purge: (Y/N) N

Calibration ID: 2984

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2555911	6.28	1488336	7.95	2532367	9.20
UPPER LIMIT		5111822	6.78	2976672	8.45	5064734	9.70
LOWER LIMIT		1277956	5.78	744168	7.45	1266184	8.70
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137790/1-A		4399025	6.28	2464734	7.95	3930946	9.20
LCS 660-137790/2-A		3964298	6.28	2308263	7.95	3802832	9.20
680-90622-22	CV1358B-CS	3715803	6.28	2045990	7.95	3219451	9.20
680-90622-23	CV0525A-CS-SP	3569986	6.28	1958410	7.95	3086912	9.20
680-90622-24	CV0525B-CS-SP	3806956	6.28	2069128	7.95	3265799	9.20
680-90622-24 MS	CV0525B-CS-SP MS	4209498	6.28	2278527	7.95	3583135	9.21
680-90622-24 MSD	CV0525B-CS-SP MSD	3931585	6.28	2118029	7.95	3266666	9.20
680-90622-26	CV0729B-CS-SP	3959904	6.28	2164223	7.95	3356126	9.20
680-90622-28	FM0217A-CS	3929014	6.28	2166968	7.95	3449167	9.20
680-90622-29	CV0828A-CS-SP	4128316	6.28	2250899	7.95	3583942	9.20
680-90622-30	CV0828B-CS-SP	3981782	6.28	2163956	7.95	3378609	9.20
680-90622-31	CV0828C-CS-SP	3885611	6.28	2094414	7.95	3224245	9.20
680-90622-32	CV0838A-CS-SP	4036894	6.28	2178293	7.95	3339353	9.21
680-90622-33	CV0838B-CS-SP	3920225	6.28	2109270	7.95	3232926	9.21
680-90622-34	CV0912A-CS-SP	4043792	6.28	2191485	7.95	3433989	9.21
680-90622-35	CV0912B-CS-SP	4126268	6.29	2271886	7.95	3515399	9.21

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Sample No.: CCVIS 660-137911/5 Date Analyzed: 05/29/2013 15:12

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

Lab File ID (Standard): 1DE29005.D Heated Purge: (Y/N) N

Calibration ID: 2984

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2512420	11.56	2612967	13.46		
UPPER LIMIT		5024840	12.06	5225934	13.96		
LOWER LIMIT		1256210	11.06	1306484	12.96		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137790/1-A		3792255	11.56	3874355	13.46		
LCS 660-137790/2-A		3638206	11.57	3726255	13.47		
680-90622-22	CV1358B-CS	2749122	11.56	3198491	13.47		
680-90622-23	CV0525A-CS-SP	2674221	11.56	3008684	13.47		
680-90622-24	CV0525B-CS-SP	2885858	11.57	3172887	13.48		
680-90622-24 MS	CV0525B-CS-SP MS	3182616	11.57	3529737	13.48		
680-90622-24 MSD	CV0525B-CS-SP MSD	2907170	11.57	3216693	13.49		
680-90622-26	CV0729B-CS-SP	3138505	11.57	3450016	13.48		
680-90622-28	FM0217A-CS	3207783	11.57	3432534	13.48		
680-90622-29	CV0828A-CS-SP	3255710	11.57	3482414	13.48		
680-90622-30	CV0828B-CS-SP	3098533	11.57	3246882	13.49		
680-90622-31	CV0828C-CS-SP	3045340	11.57	3043104	13.49		
680-90622-32	CV0838A-CS-SP	3141036	11.57	3127550	13.49		
680-90622-33	CV0838B-CS-SP	3103144	11.57	3048952	13.49		
680-90622-34	CV0912A-CS-SP	3339182	11.58	3207096	13.50		
680-90622-35	CV0912B-CS-SP	3381990	11.57	3232180	13.48		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Sample No.: CCVIS 660-138011/3 Date Analyzed: 06/03/2013 10:59

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

Lab File ID (Standard): 1DF03003.D Heated Purge: (Y/N) N

Calibration ID: 2984

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3550475	6.28	1958003	7.95	3275219	9.20
UPPER LIMIT		7100950	6.78	3916006	8.45	6550438	9.70
LOWER LIMIT		1775238	5.78	979002	7.45	1637610	8.70
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-90622-25	CV0729A-CS-SP	3839692	6.28	2133789	7.95	3425952	9.20
680-90622-27	CV1016A-CS-SP	3802420	6.28	2103531	7.94	3429953	9.20
680-90622-34 DL	CV0912A-CS-SP DL	3609907	6.28	1990568	7.95	3148934	9.20

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Sample No.: CCVIS 660-138011/3 Date Analyzed: 06/03/2013 10:59

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

Lab File ID (Standard): 1DF03003.D Heated Purge: (Y/N) N

Calibration ID: 2984

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3125523	11.57	3123612	13.47		
UPPER LIMIT		6251046	12.07	6247224	13.97		
LOWER LIMIT		1562762	11.07	1561806	12.97		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-90622-25	CV0729A-CS-SP	3190919	11.57	3231052	13.47		
680-90622-27	CV1016A-CS-SP	3190622	11.56	3222896	13.47		
680-90622-34 DL	CV0912A-CS-SP DL	2785097	11.57	3103639	13.48		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV1358B-CS | Lab Sample ID: 680-90622-22

Matrix: Solid | Lab File ID: 1DE29014.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 09:40

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 14.91(g) | Date Analyzed: 05/29/2013 19:17

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

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

% Moisture: 30.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137911 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	580	U	580	120
208-96-8	Acenaphthylene	48	J	230	29
120-12-7	Anthracene	89		48	24
56-55-3	Benzo[a]anthracene	340		46	23
50-32-8	Benzo[a]pyrene	350		60	30
205-99-2	Benzo[b]fluoranthene	500		70	35
191-24-2	Benzo[g,h,i]perylene	290		120	25
207-08-9	Benzo[k]fluoranthene	150		46	21
218-01-9	Chrysene	460		52	26
53-70-3	Dibenz(a,h)anthracene	98	J	120	24
206-44-0	Fluoranthene	540		120	23
86-73-7	Fluorene	27	J	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	270		120	41
90-12-0	1-Methylnaphthalene	390		230	25
91-57-6	2-Methylnaphthalene	470		230	41
91-20-3	Naphthalene	350		230	25
85-01-8	Phenanthrene	550	B	46	23
129-00-0	Pyrene	560		120	21

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\1DE29014.D
Lab Smp Id: 680-90622-A-22-A Client Smp ID: CV1358B-CS
Inj Date : 29-MAY-2013 19:17
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90622-a-22-a
Misc Info : 680-90622-A-22-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\dFASTPAHi.m
Meth Date : 29-May-2013 17:42 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 14
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.910	Weight Extracted
M	30.288	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.278	6.277	(1.000)	3715803	40.0000	
* 7 Acenaphthene-d10	164	7.946	7.945	(1.000)	2045990	40.0000	
* 11 Phenanthrene-d10	188	9.204	9.197	(1.000)	3219451	40.0000	
$ 15 o-Terphenyl	230	9.509	9.508	(1.033)	77617	1.64562	630
* 19 Chrysene-d12	240	11.560	11.559	(1.000)	2749122	40.0000	
* 24 Perylene-d12	264	13.469	13.456	(1.000)	3198491	40.0000	
2 Naphthalene	128	6.301	6.294	(1.004)	83314	0.90921	350
3 2-Methylnaphthalene	142	6.994	6.993	(1.114)	71092	1.21849	470
4 1-Methylnaphthalene	142	7.088	7.087	(1.129)	60155	1.00149	380
5 1,1'-Biphenyl	154	7.429	7.428	(0.935)	9335	0.13505	52
6 Acenaphthylene	152	7.817	7.816	(0.984)	10640	0.12543	48
9 Dibenzofuran	168	8.117	8.116	(1.021)	24957	0.33634	130
10 Fluorene	166	8.410	8.409	(1.058)	4205	0.06906	26(Q)
12 Phenanthrene	178	9.221	9.214	(1.002)	123680	1.41846	540

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.257	9.255	(1.006)	19642	0.23217	89
16 Fluoranthene	202	10.197	10.195	(1.108)	126088	1.41351	540
17 Pyrene	202	10.385	10.383	(0.898)	118098	1.46728	560
18 Benzo(a)anthracene	228	11.542	11.541	(0.998)	72835	0.89272	340
20 Chrysene	228	11.583	11.582	(1.002)	88098	1.19913	460
21 Benzo(b)fluoranthene	252	12.899	12.898	(0.958)	104755	1.30732	500
22 Benzo(k)fluoranthene	252	12.929	12.939	(0.960)	33132	0.39485	150(H)
23 Benzo(a)pyrene	252	13.363	13.362	(0.992)	65164	0.91993	350
25 Indeno(1,2,3-cd)pyrene	276	15.103	15.101	(1.121)	45283	0.69271	270(M)
26 Dibenzo(a,h)anthracene	278	15.132	15.143	(1.123)	13975	0.25478	98
27 Benzo(g,h,i)perylene	276	15.573	15.577	(1.156)	54881	0.75566	290

QC Flag Legend

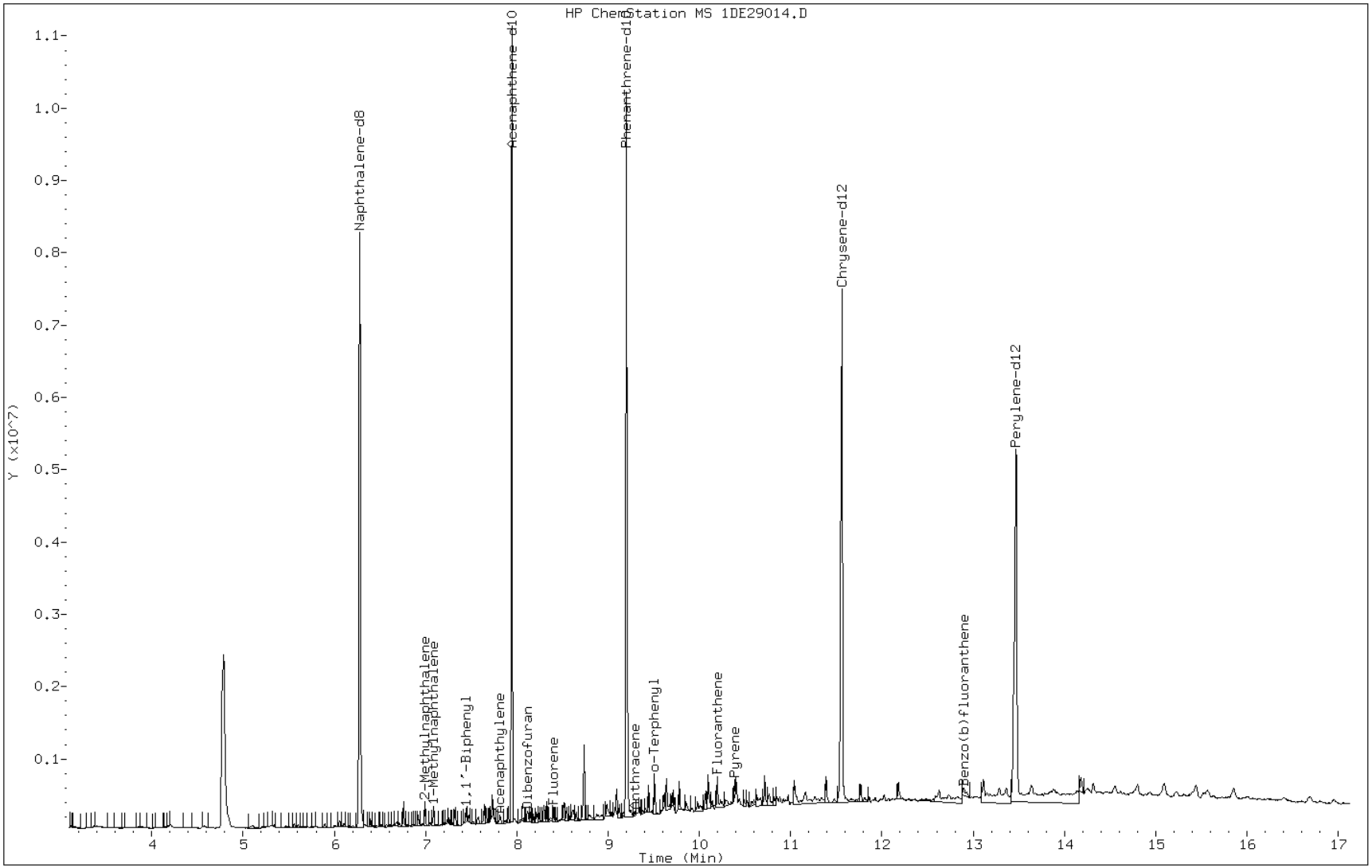
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC



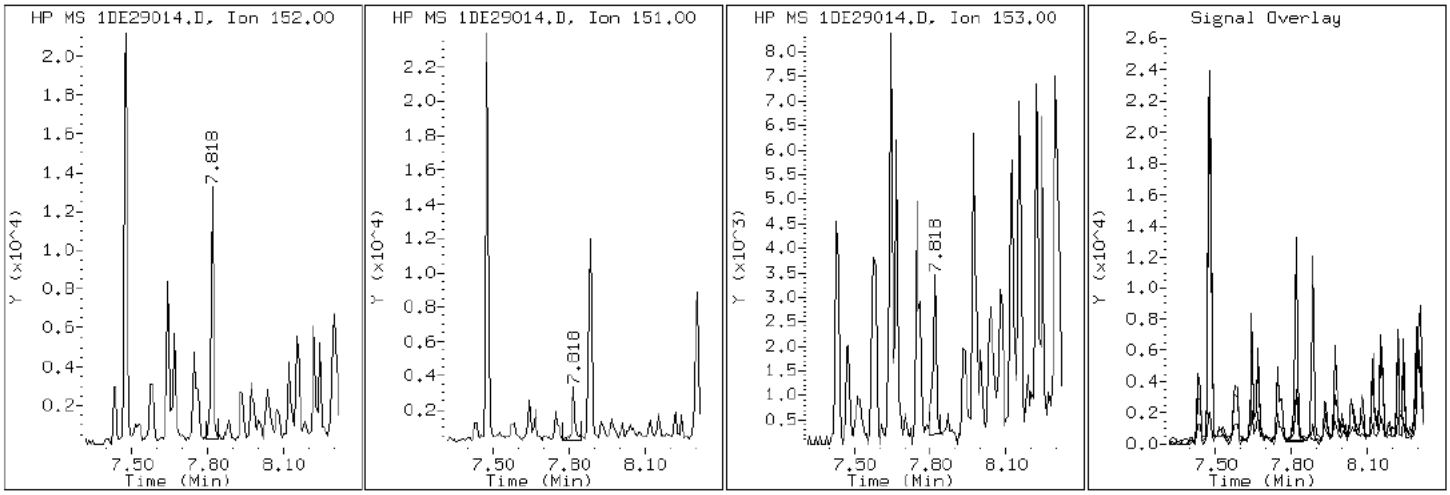
Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC

6 Acenaphthylene



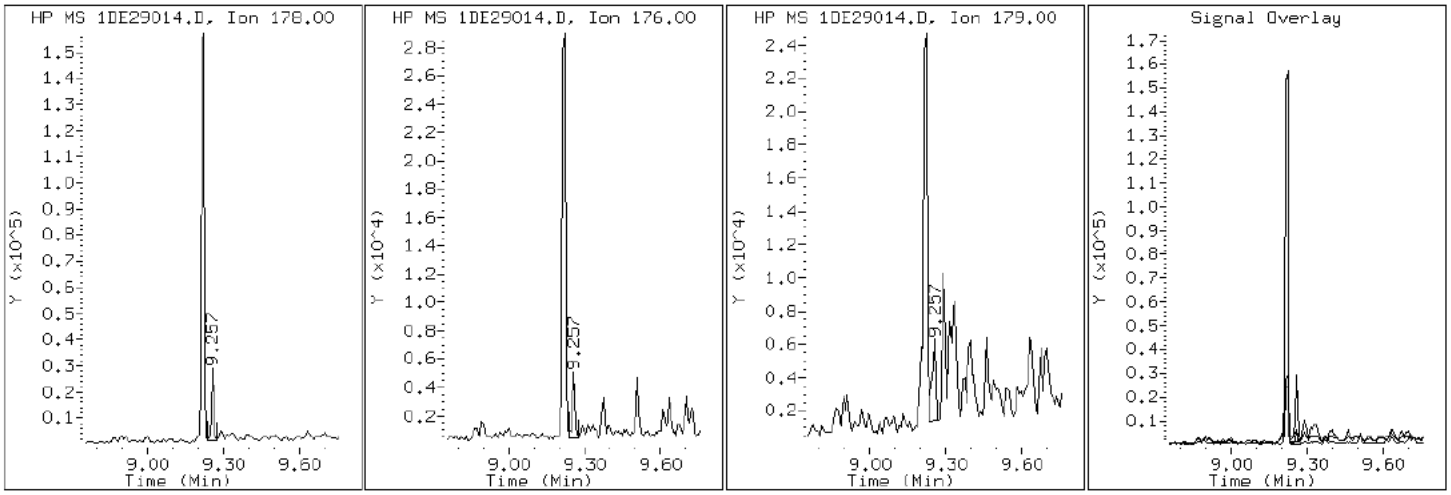
Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC

13 Anthracene



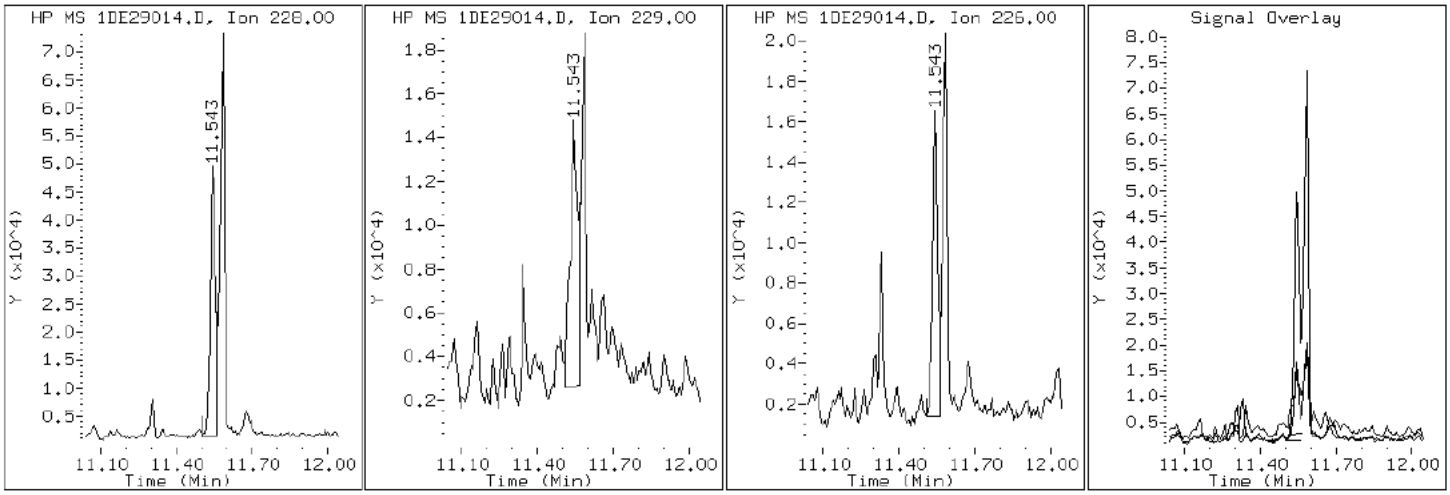
Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC

18 Benzo(a)anthracene



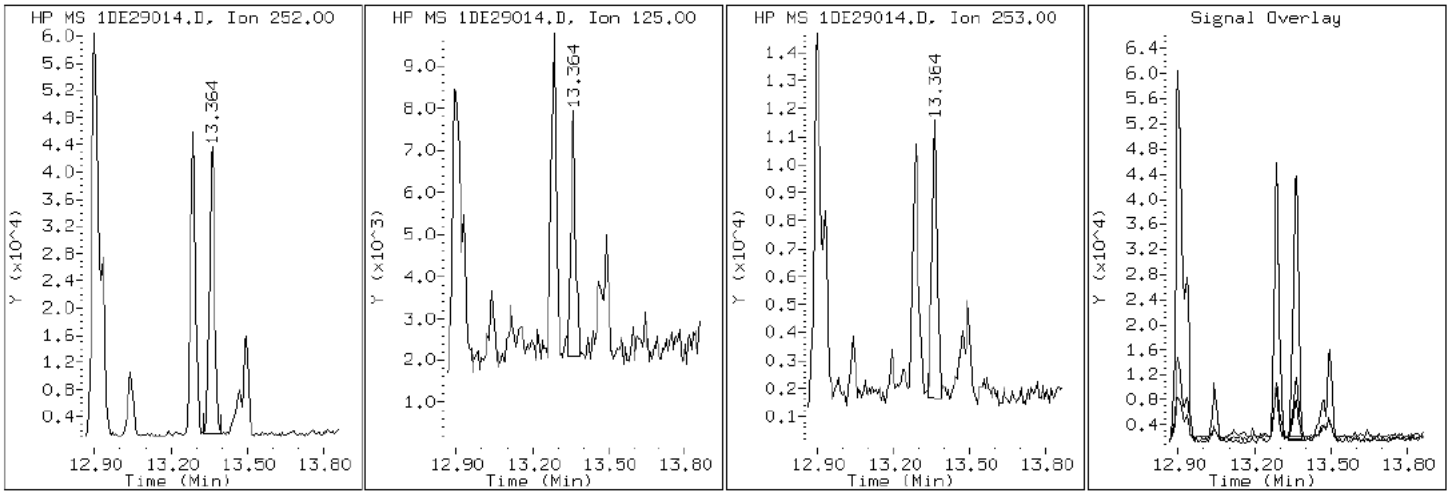
Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC

23 Benzo(a)pyrene



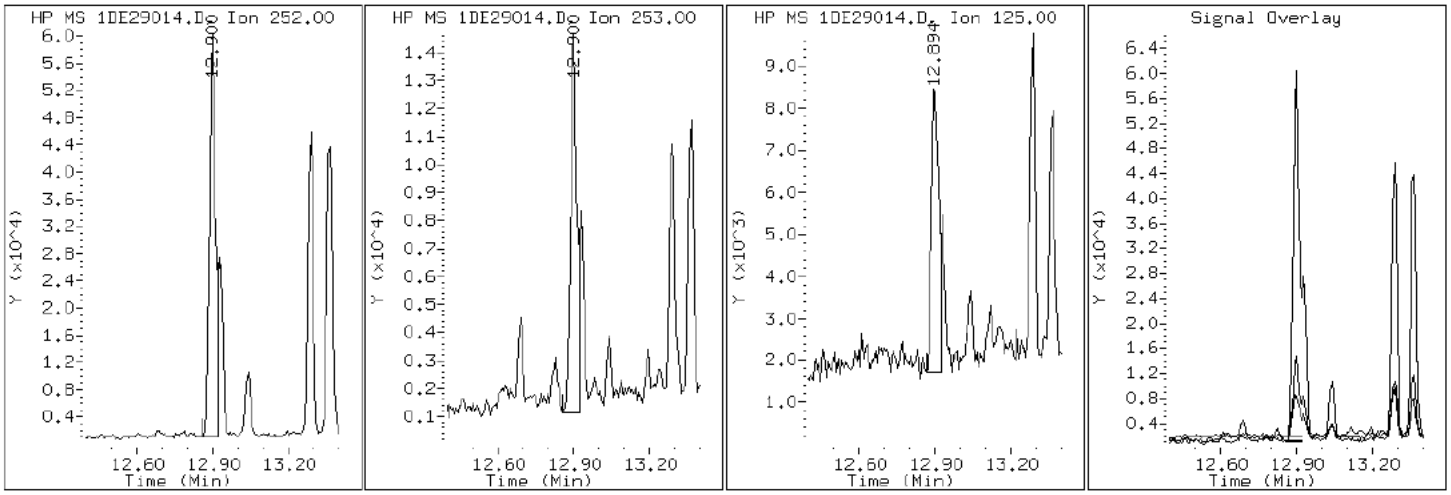
Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC

21 Benzo(b)fluoranthene



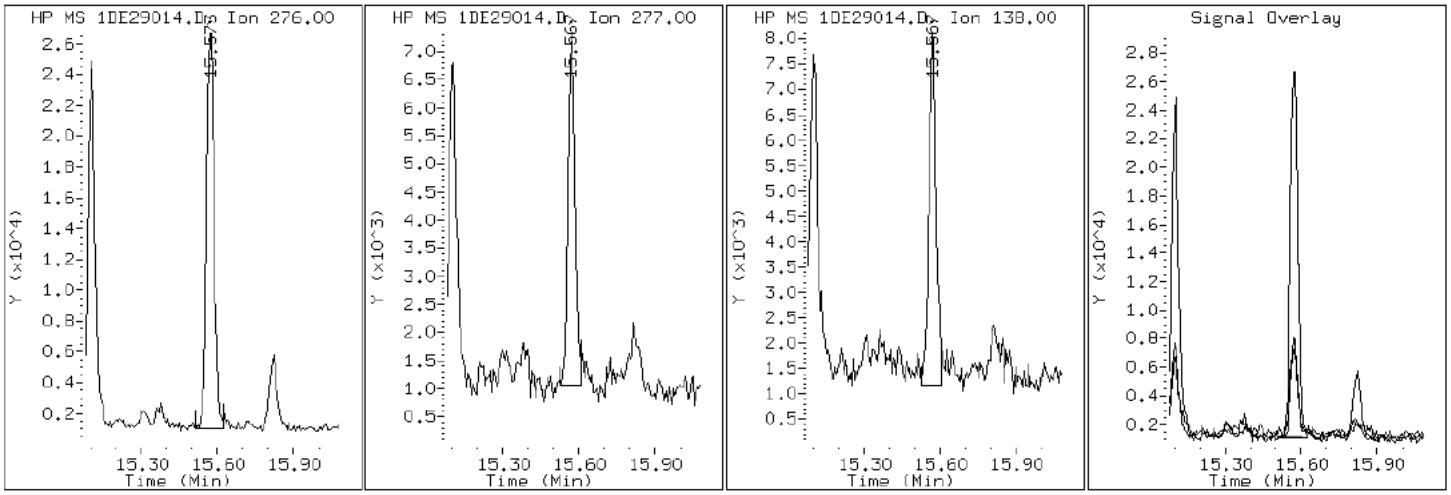
Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC

27 Benzo(g,h,i)perylene



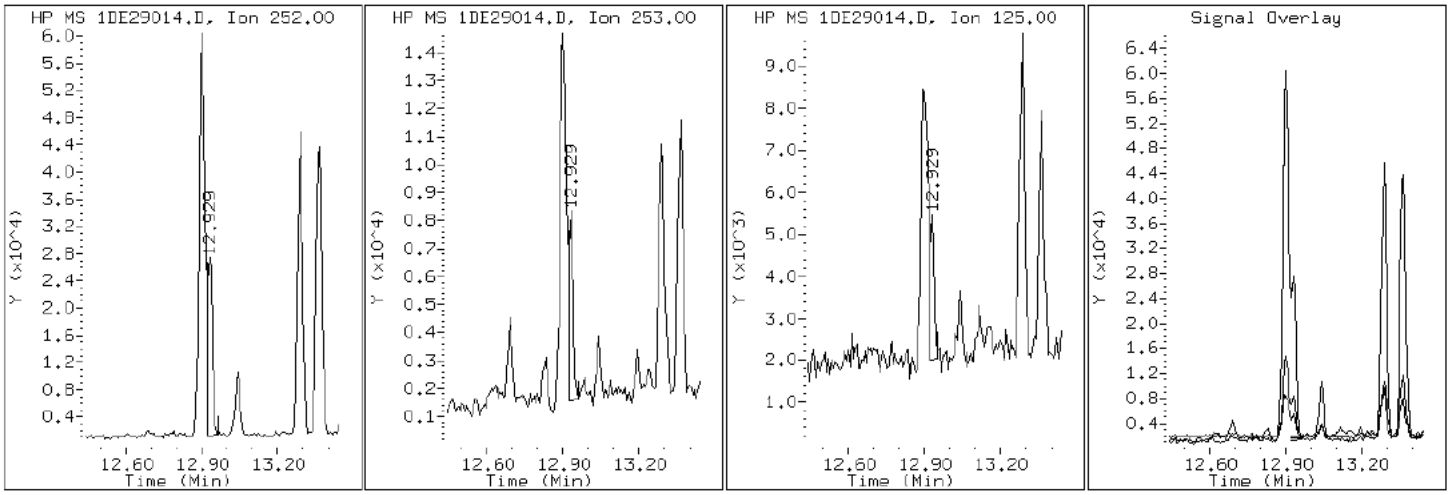
Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC

22 Benzo(k)fluoranthene



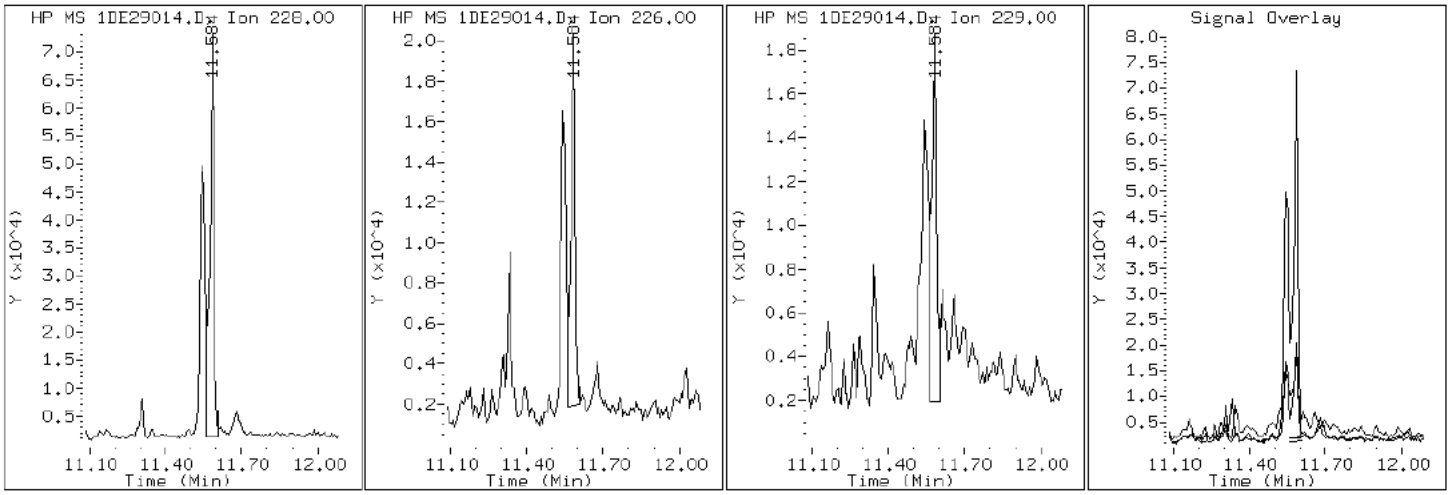
Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC

20 Chrysene



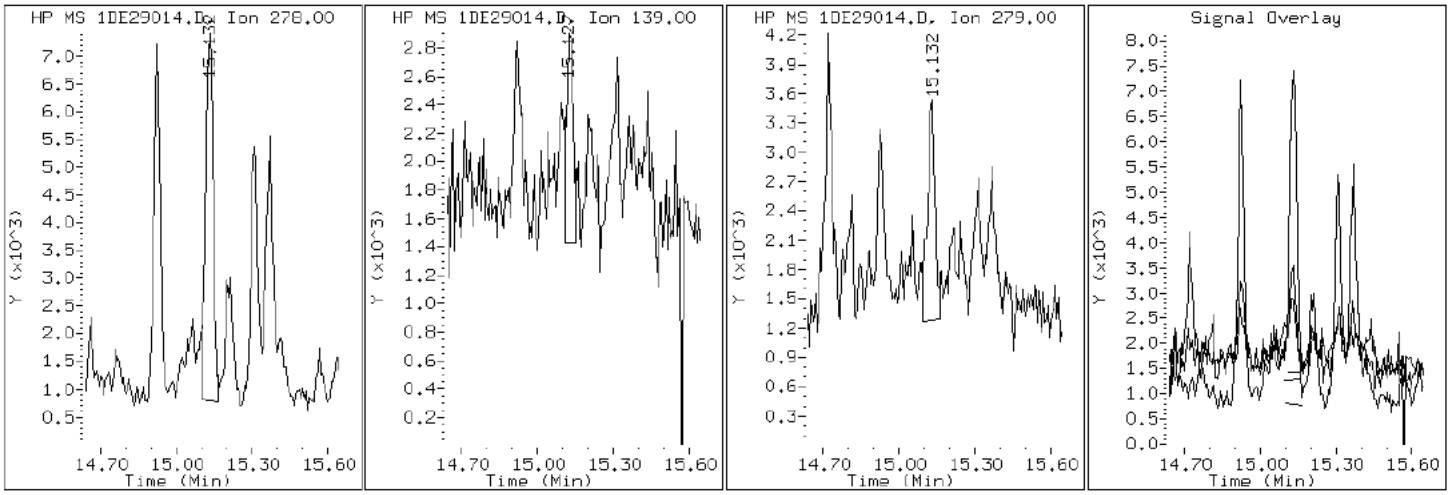
Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC

26 Dibenzo(a,h)anthracene



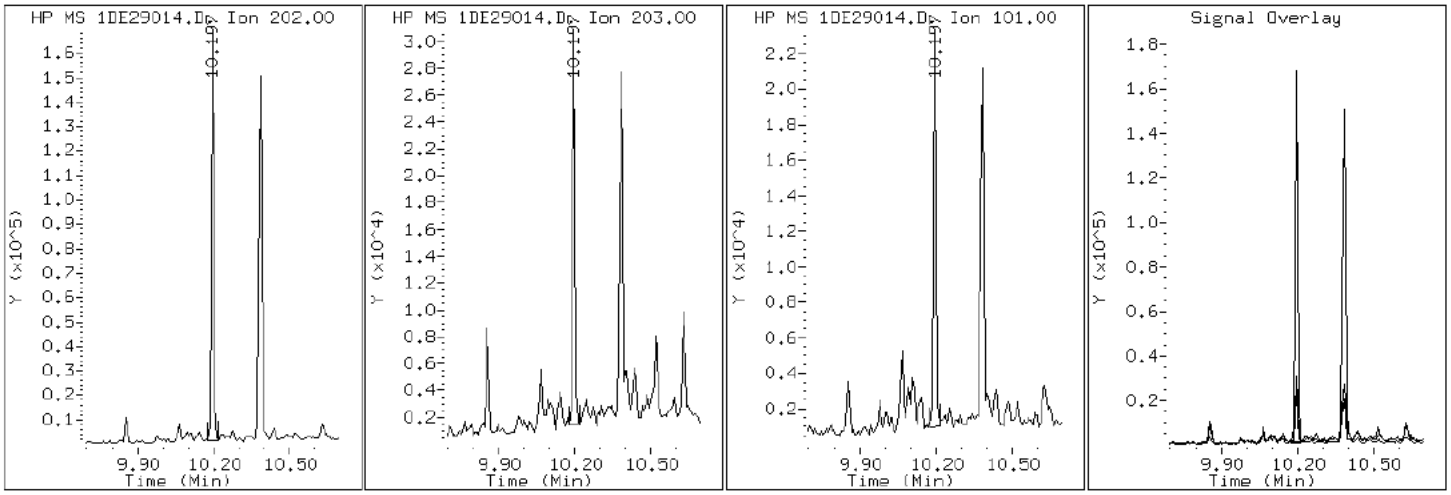
Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC

16 Fluoranthene



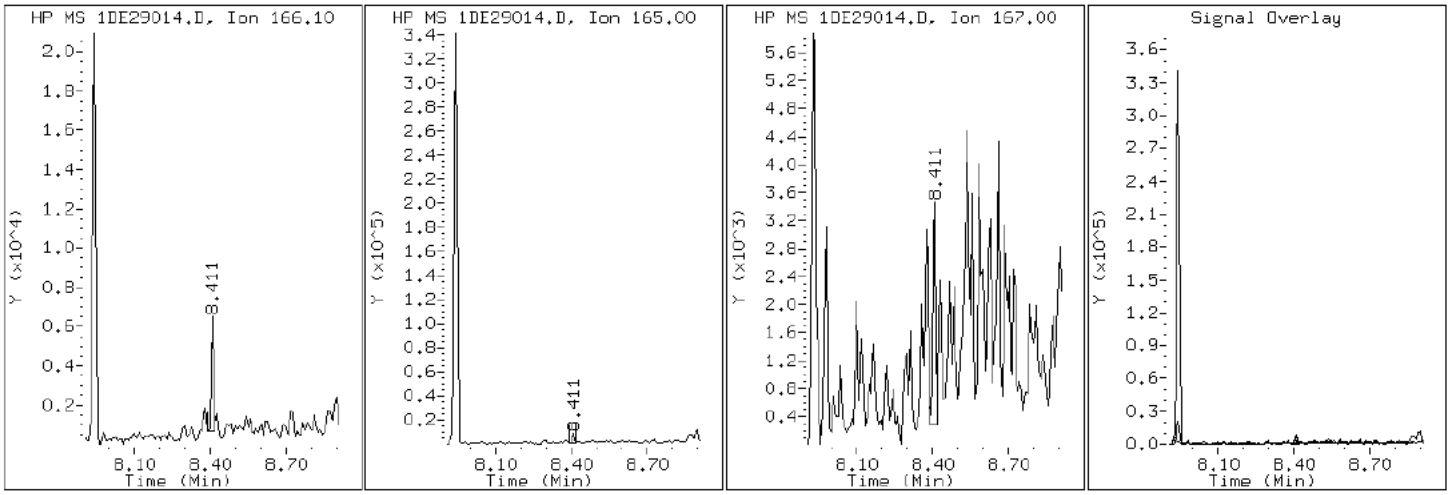
Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC

10 Fluorene



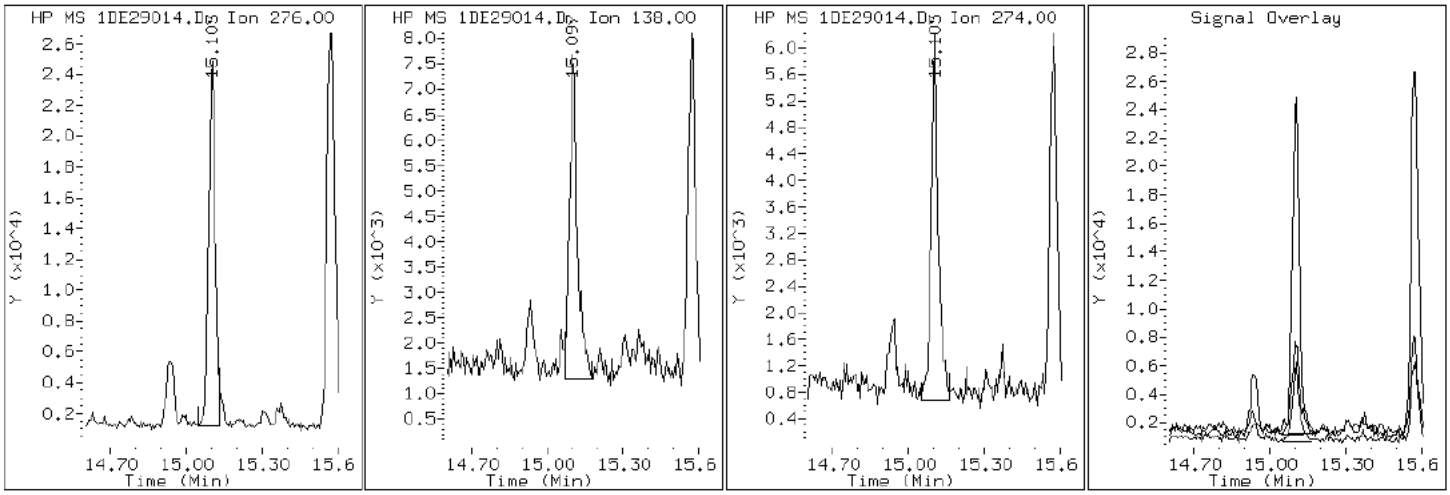
Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC

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



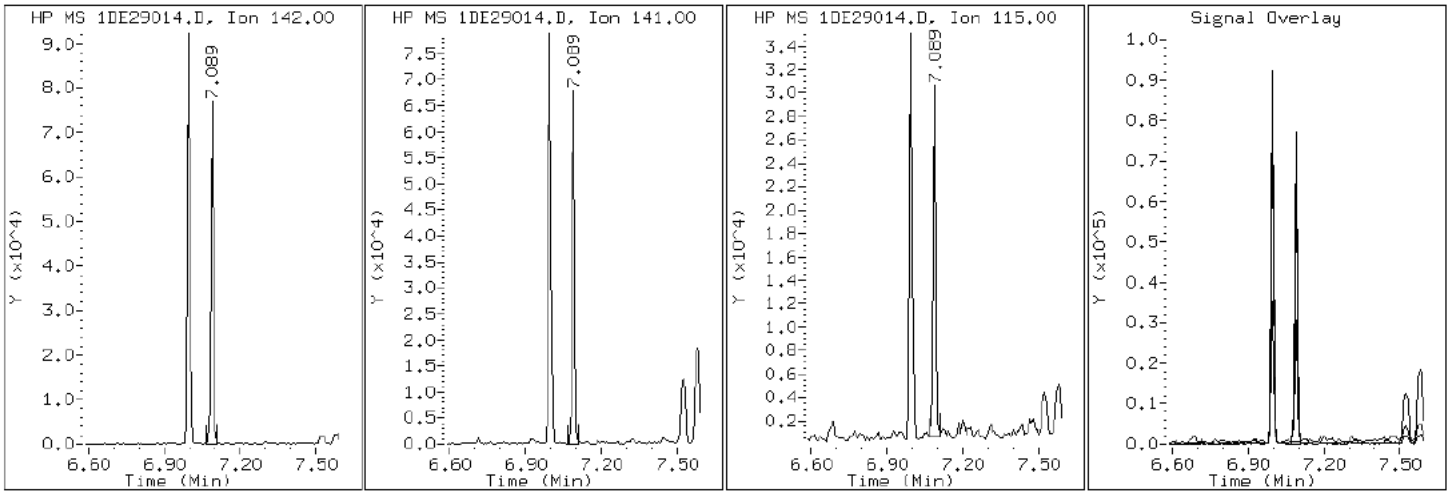
Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC

4 1-Methylnaphthalene



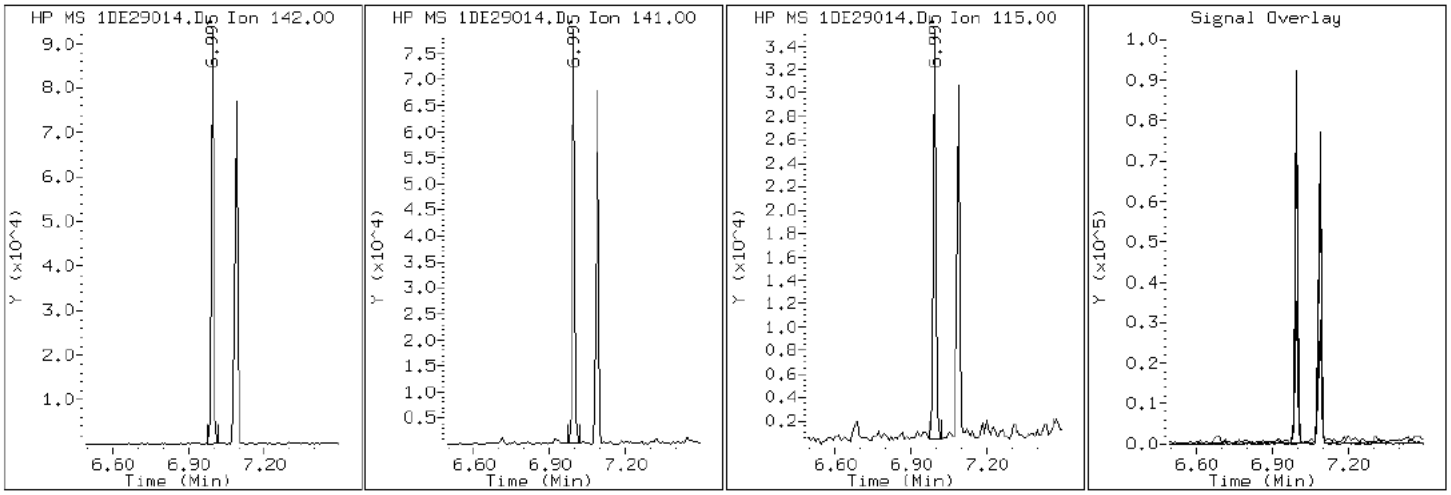
Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC

3 2-Methylnaphthalene



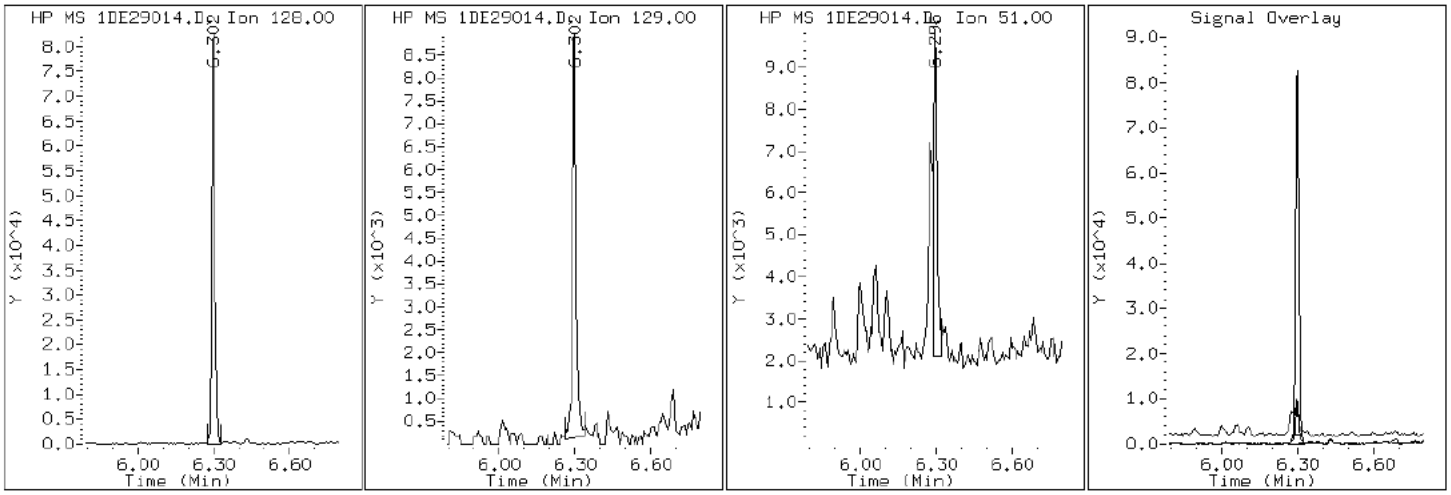
Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC

2 Naphthalene



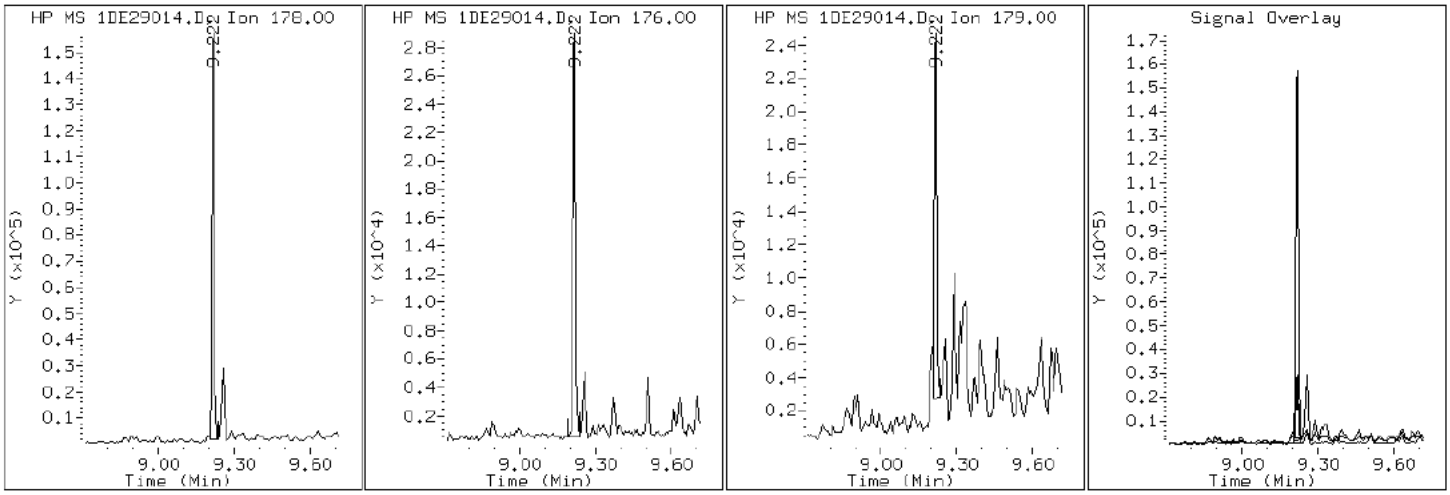
Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC

12 Phenanthrene



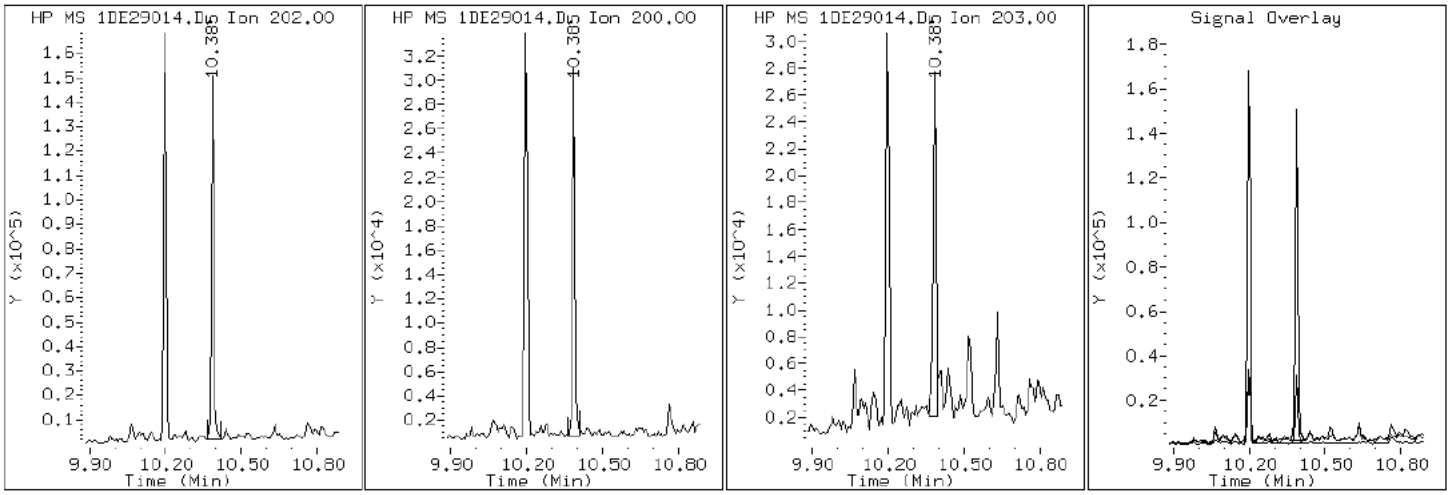
Data File: 1DE29014.D

Date: 29-MAY-2013 19:17

Client ID: CV1358B-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-22-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DE29014.D
Inj. Date and Time: 29-MAY-2013 19:17
Instrument ID: BSMSD.i
Client ID: CV1358B-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

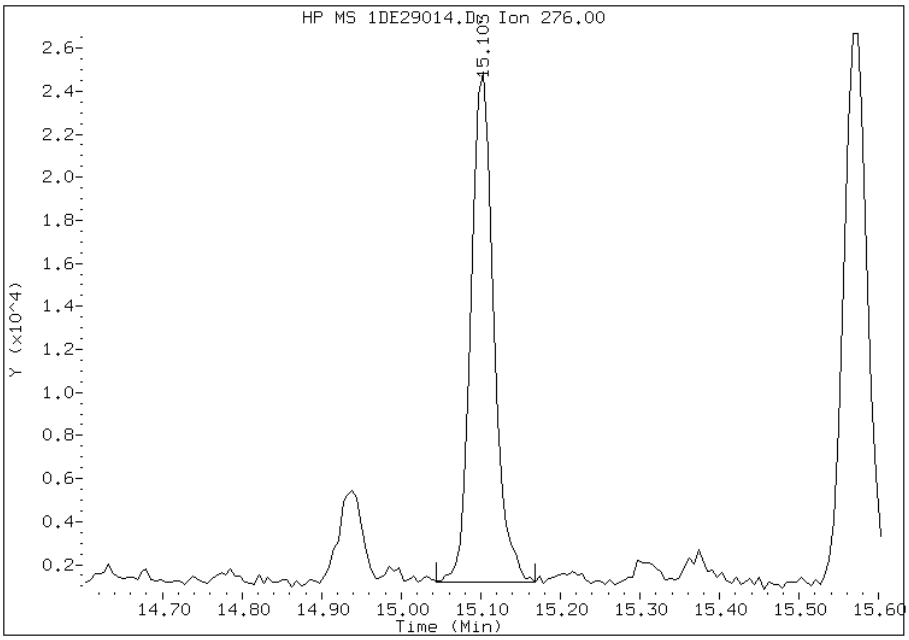
Processing Integration Results

RT: 15.10

Response: 46677

Amount: 1

Conc: 273



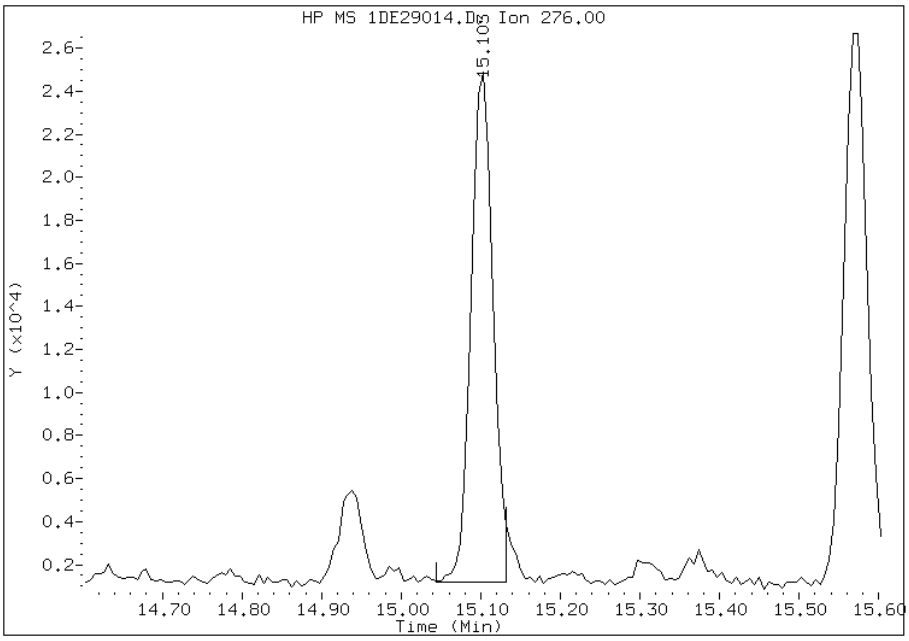
Manual Integration Results

RT: 15.10

Response: 45283

Amount: 1

Conc: 267



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 16:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV0525A-CS-SP | Lab Sample ID: 680-90622-23

Matrix: Solid | Lab File ID: 1DE29015.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 09:51

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 14.94(g) | Date Analyzed: 05/29/2013 19:40

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

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

% Moisture: 19.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137911 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	99
208-96-8	Acenaphthylene	41	J	200	25
120-12-7	Anthracene	56		42	21
56-55-3	Benzo[a]anthracene	320		40	19
50-32-8	Benzo[a]pyrene	290		52	26
205-99-2	Benzo[b]fluoranthene	460		61	30
191-24-2	Benzo[g,h,i]perylene	220		99	22
207-08-9	Benzo[k]fluoranthene	160		40	18
218-01-9	Chrysene	580		45	22
53-70-3	Dibenz(a,h)anthracene	94	J	99	20
206-44-0	Fluoranthene	400		99	20
86-73-7	Fluorene	42	J	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	230		99	35
90-12-0	1-Methylnaphthalene	310		200	22
91-57-6	2-Methylnaphthalene	470		200	35
91-20-3	Naphthalene	310		200	22
85-01-8	Phenanthrene	540	B	40	19
129-00-0	Pyrene	410		99	18

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\1DE29015.D
Lab Smp Id: 680-90622-A-23-A Client Smp ID: CV0525A-CS-SP
Inj Date : 29-MAY-2013 19:40
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90622-a-23-a
Misc Info : 680-90622-A-23-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\dFASTPAHi.m
Meth Date : 29-May-2013 17:42 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 15
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	19.166	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.278	6.277	(1.000)	3569986	40.0000	
* 7	Acenaphthene-d10	164	7.947	7.945	(1.000)	1958410	40.0000	
* 11	Phenanthrene-d10	188	9.204	9.197	(1.000)	3086912	40.0000	
$ 15	o-Terphenyl	230	9.510	9.508	(1.033)	74346	1.64395	540
* 19	Chrysene-d12	240	11.561	11.559	(1.000)	2674221	40.0000	
* 24	Perylene-d12	264	13.470	13.456	(1.000)	3008684	40.0000	
2	Naphthalene	128	6.296	6.294	(1.003)	82405	0.93602	310
3	2-Methylnaphthalene	142	6.995	6.993	(1.114)	80368	1.43374	470
4	1-Methylnaphthalene	142	7.089	7.087	(1.129)	54849	0.95045	310
5	1,1'-Biphenyl	154	7.430	7.428	(0.935)	21201	0.32042	110
6	Acenaphthylene	152	7.818	7.816	(0.984)	10148	0.12498	41
9	Dibenzofuran	168	8.118	8.116	(1.021)	26819	0.37760	120
10	Fluorene	166	8.411	8.409	(1.058)	7348	0.12608	42(Q)
12	Phenanthrene	178	9.216	9.214	(1.001)	135488	1.62060	540

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.257	9.255	(1.006)	13679	0.16863	56
16 Fluoranthene	202	10.197	10.195	(1.108)	103450	1.20952	400
17 Pyrene	202	10.385	10.383	(0.898)	95932	1.22527	400
18 Benzo(a)anthracene	228	11.543	11.541	(0.998)	75733	0.95424	320
20 Chrysene	228	11.584	11.582	(1.002)	125614	1.75766	580
21 Benzo(b)fluoranthene	252	12.894	12.898	(0.957)	105707	1.40243	460
22 Benzo(k)fluoranthene	252	12.930	12.939	(0.960)	38075	0.48238	160
23 Benzo(a)pyrene	252	13.364	13.362	(0.992)	57070	0.86328	280
25 Indeno(1,2,3-cd)pyrene	276	15.098	15.101	(1.121)	43530	0.70465	230(M)
26 Dibenzo(a,h)anthracene	278	15.127	15.143	(1.123)	15140	0.28252	94
27 Benzo(g,h,i)perylene	276	15.568	15.577	(1.156)	45239	0.66220	220(M)

QC Flag Legend

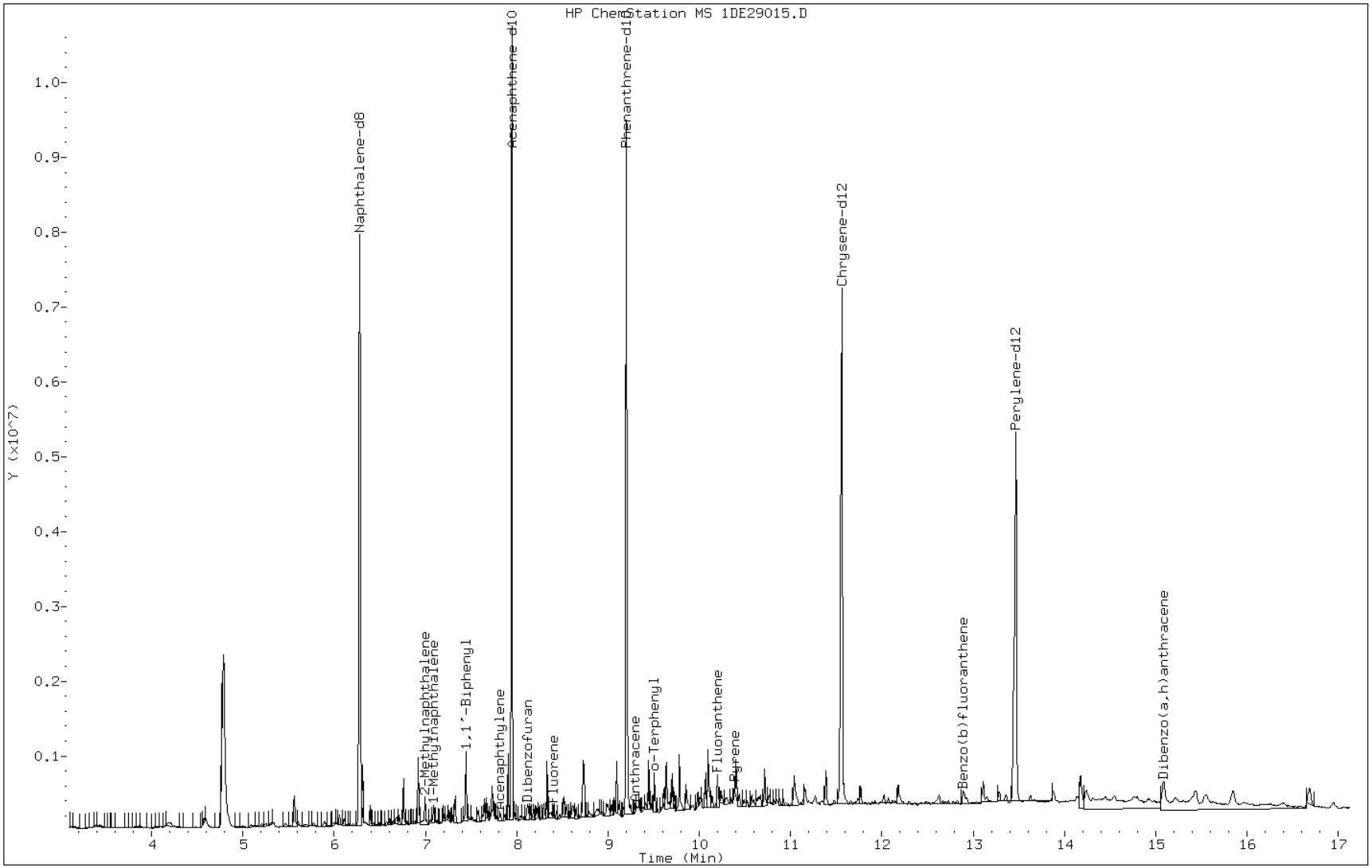
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC



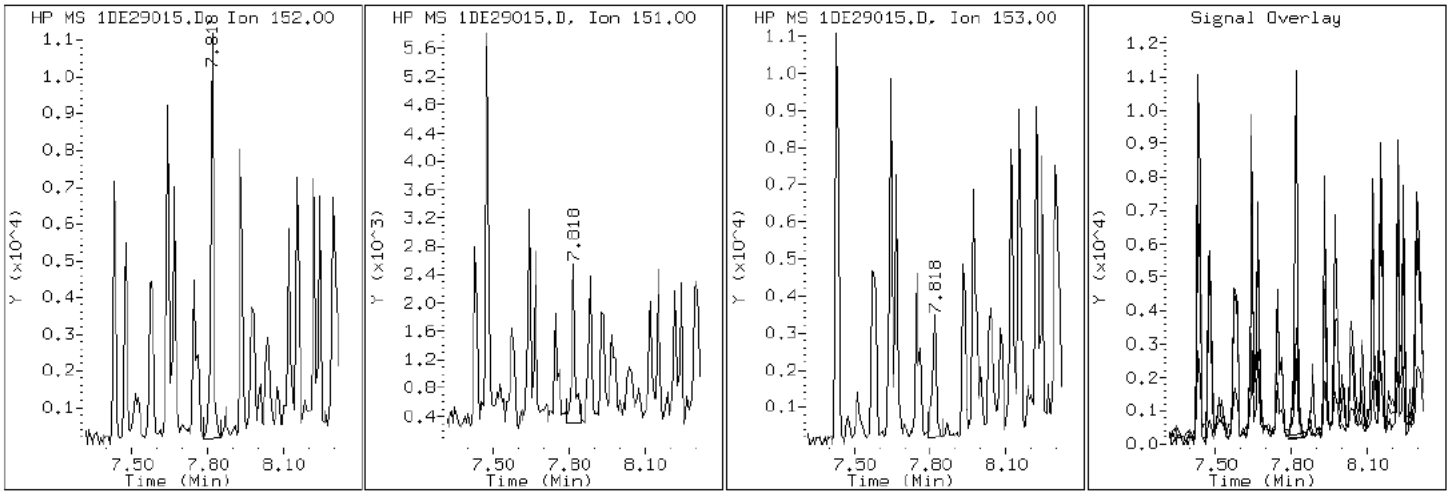
Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC

6 Acenaphthylene



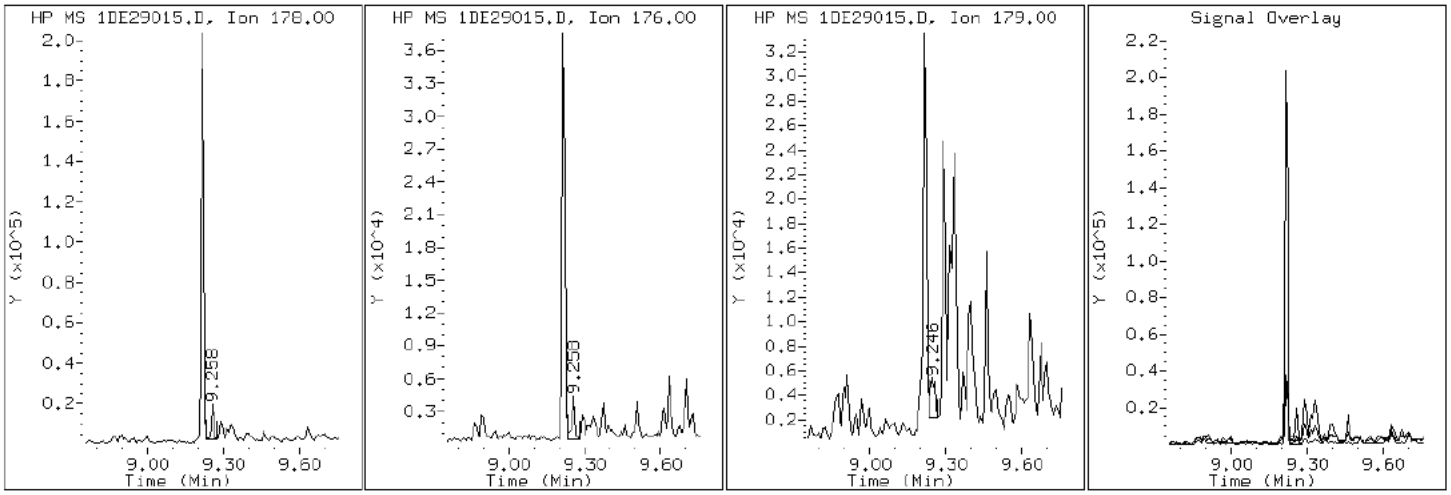
Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC

13 Anthracene



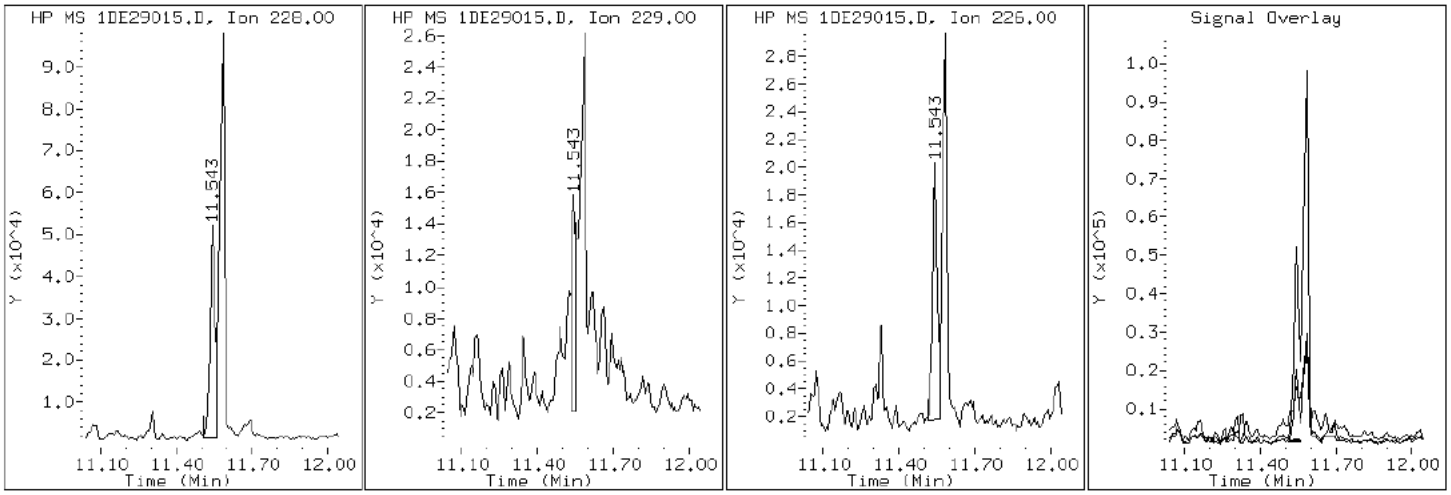
Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC

18 Benzo(a)anthracene



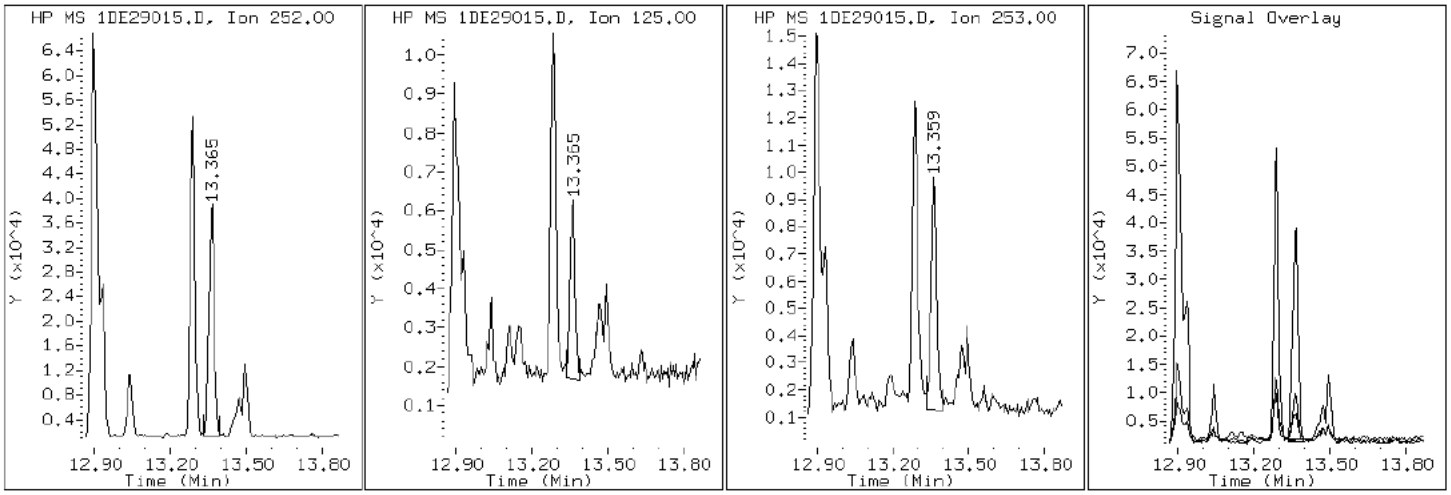
Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC

23 Benzo(a)pyrene



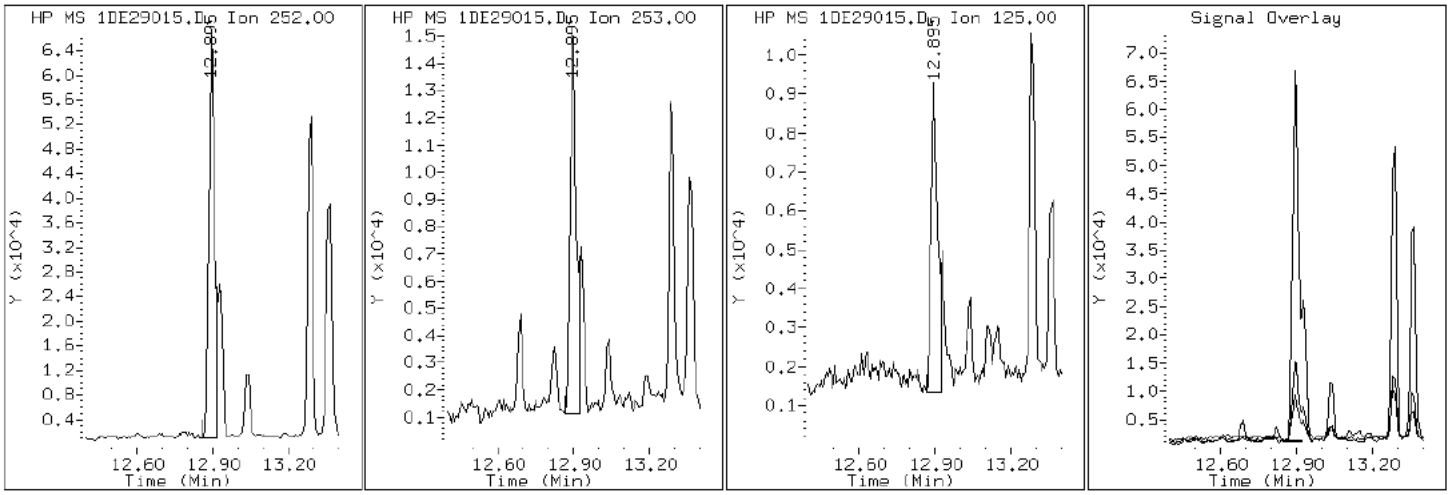
Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC

21 Benzo(b)fluoranthene



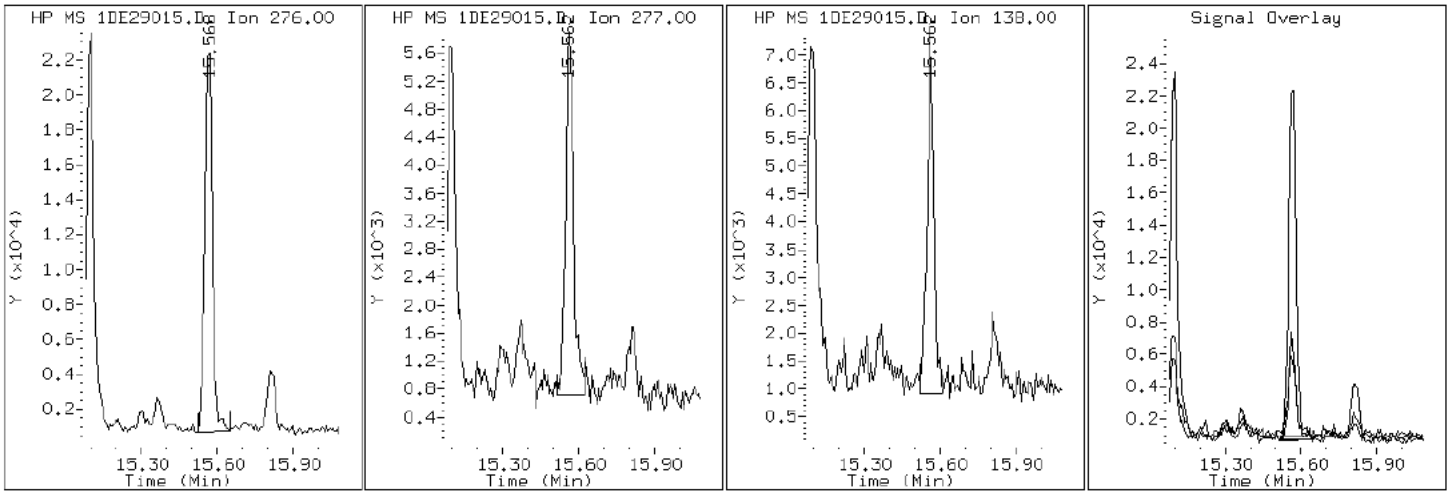
Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC

27 Benzo(g,h,i)perylene



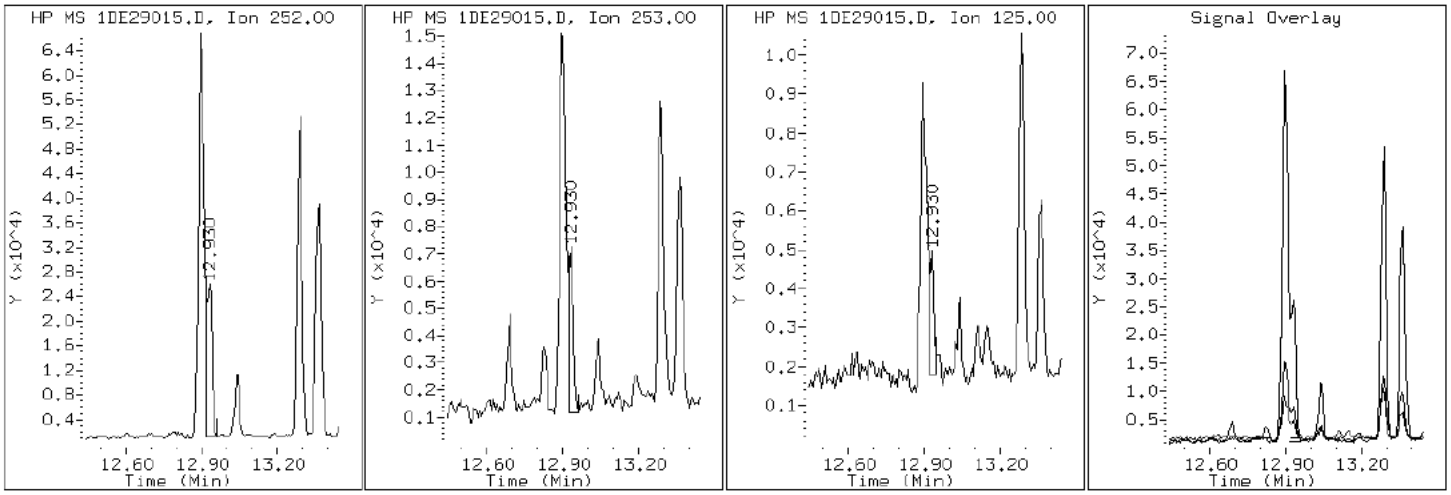
Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC

22 Benzo(k)fluoranthene



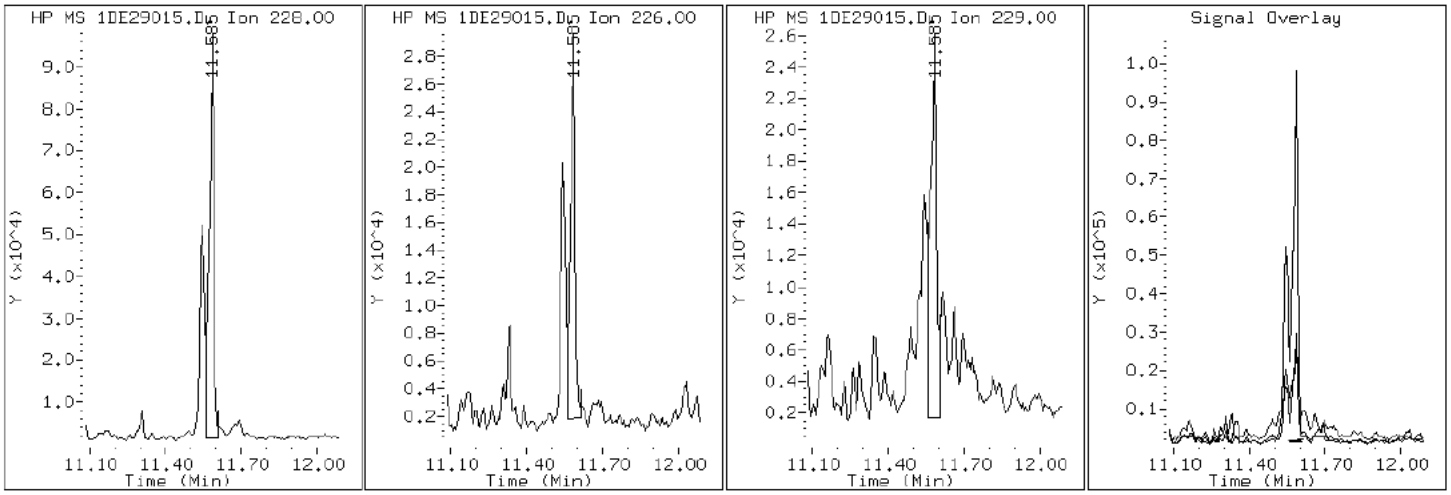
Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC

20 Chrysene



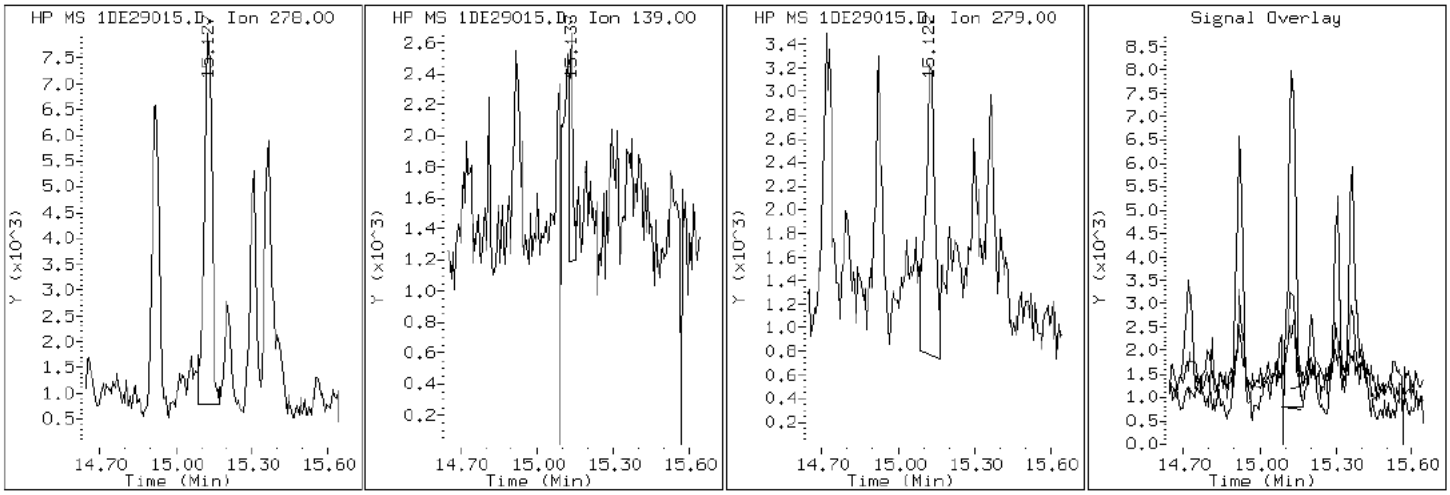
Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC

26 Dibenzo(a,h)anthracene



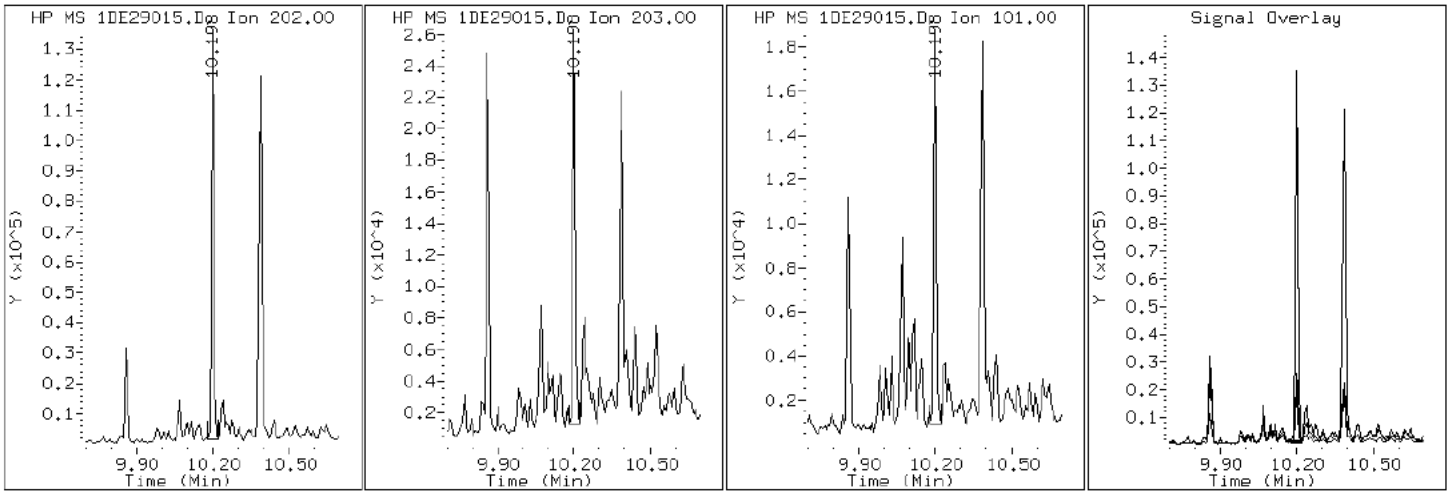
Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC

16 Fluoranthene



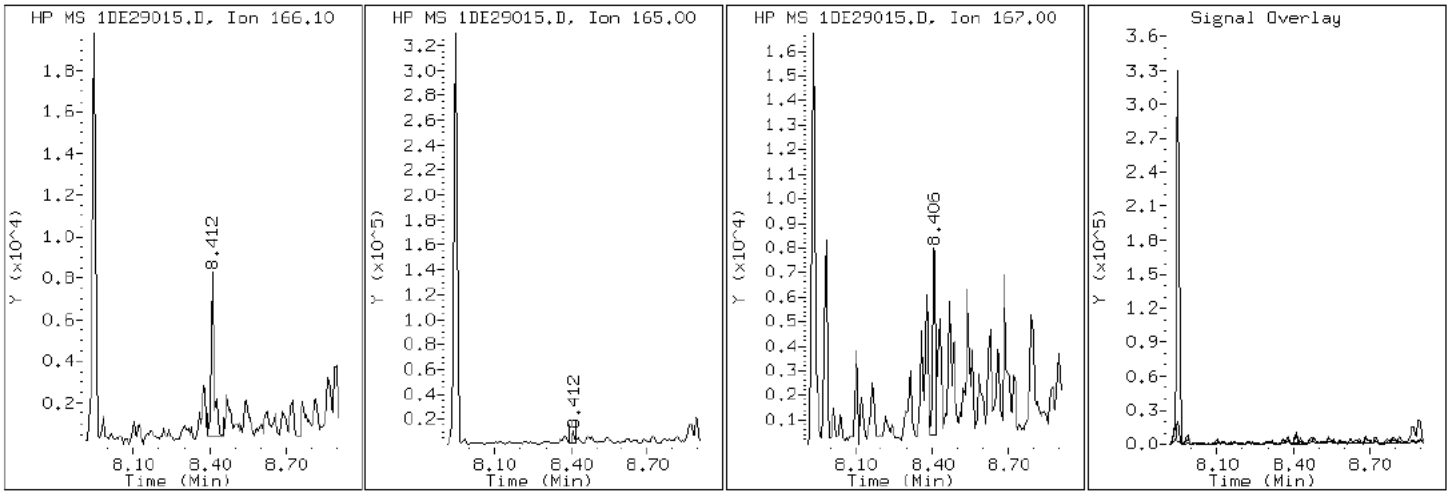
Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC

10 Fluorene



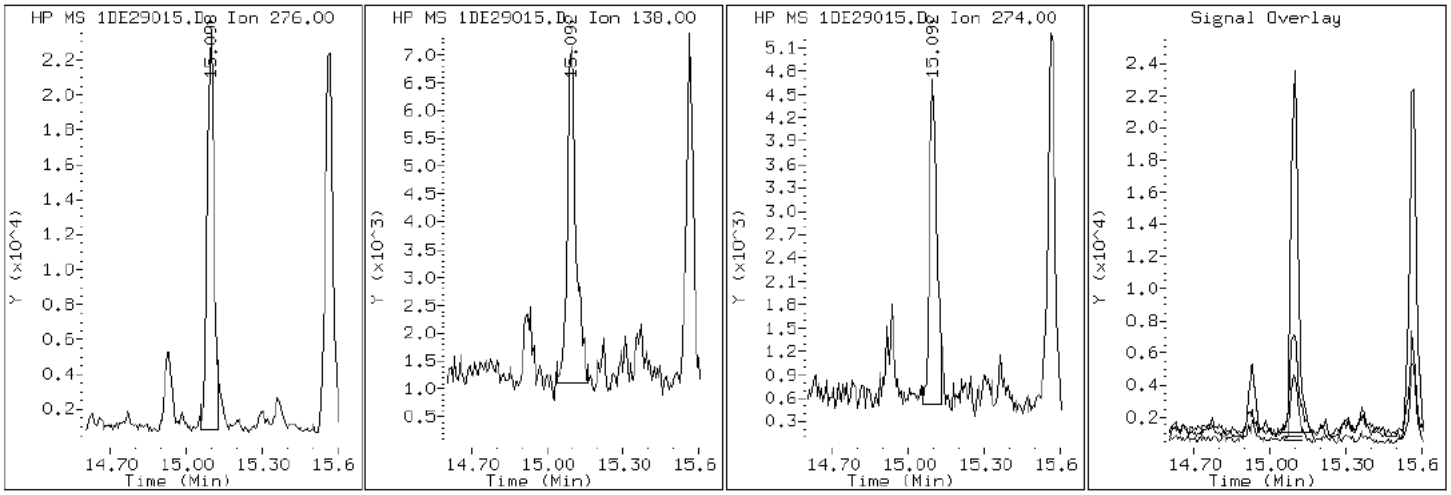
Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC

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



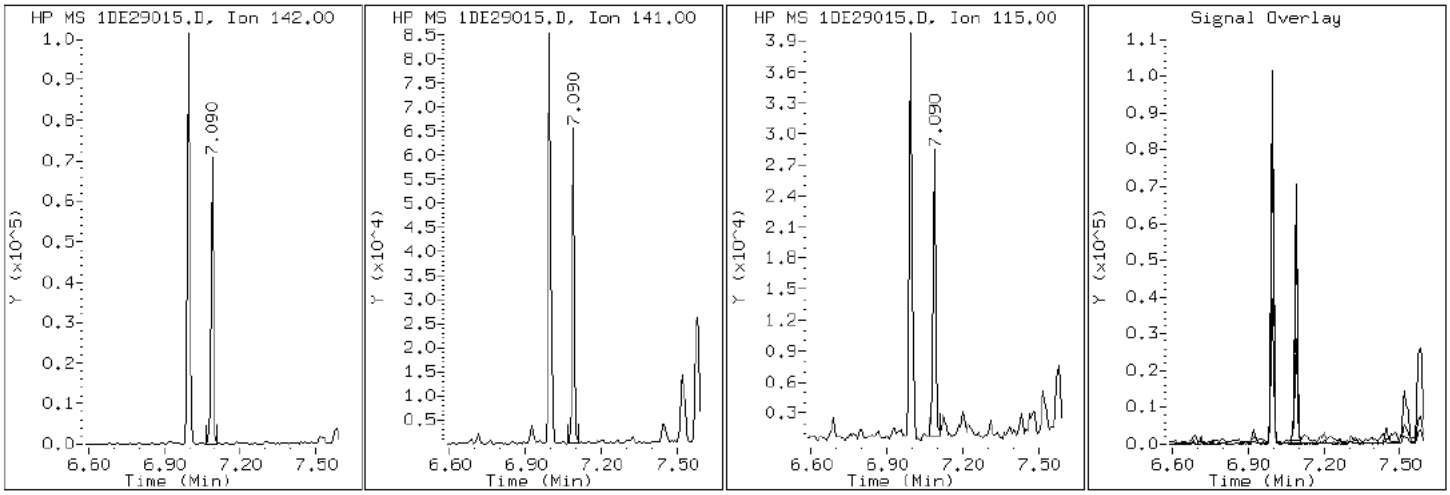
Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC

4 1-Methylnaphthalene



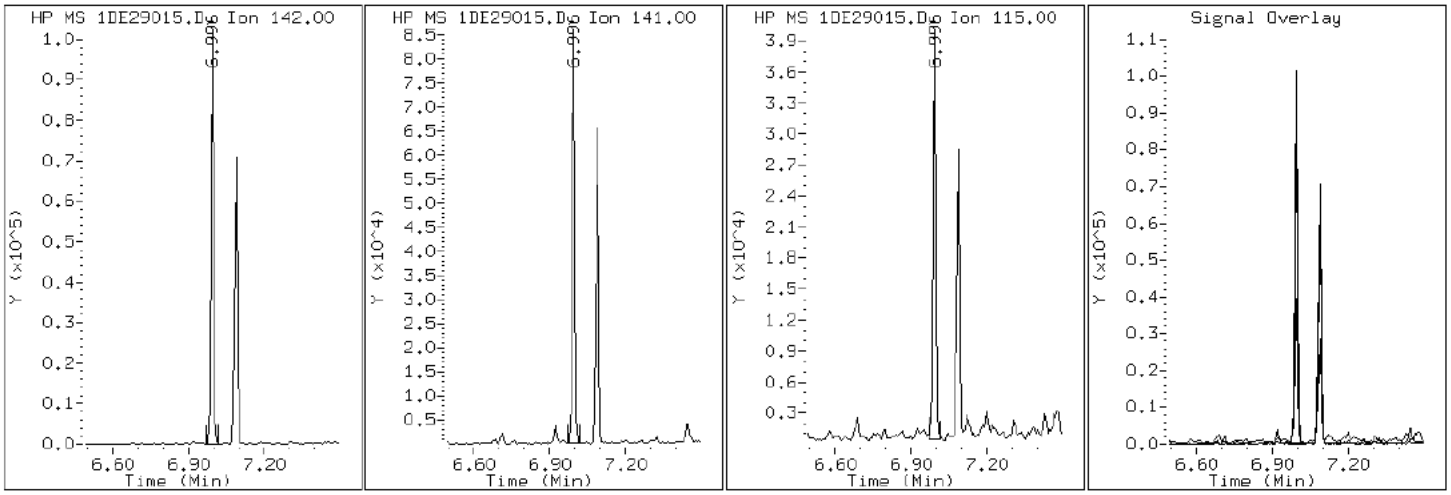
Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC

3 2-Methylnaphthalene



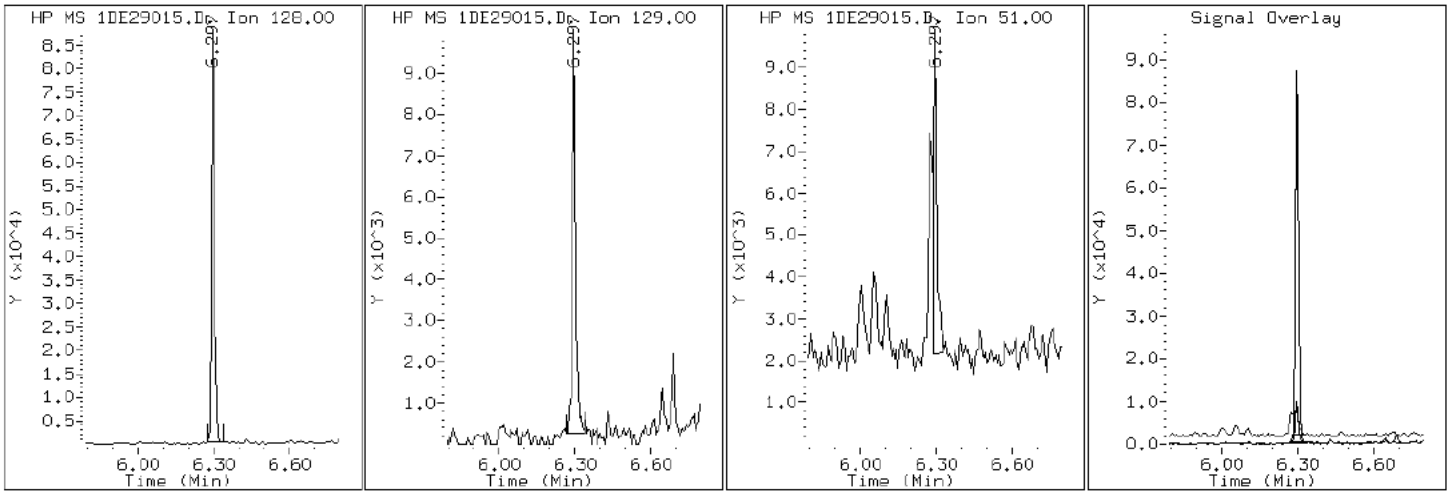
Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC

2 Naphthalene



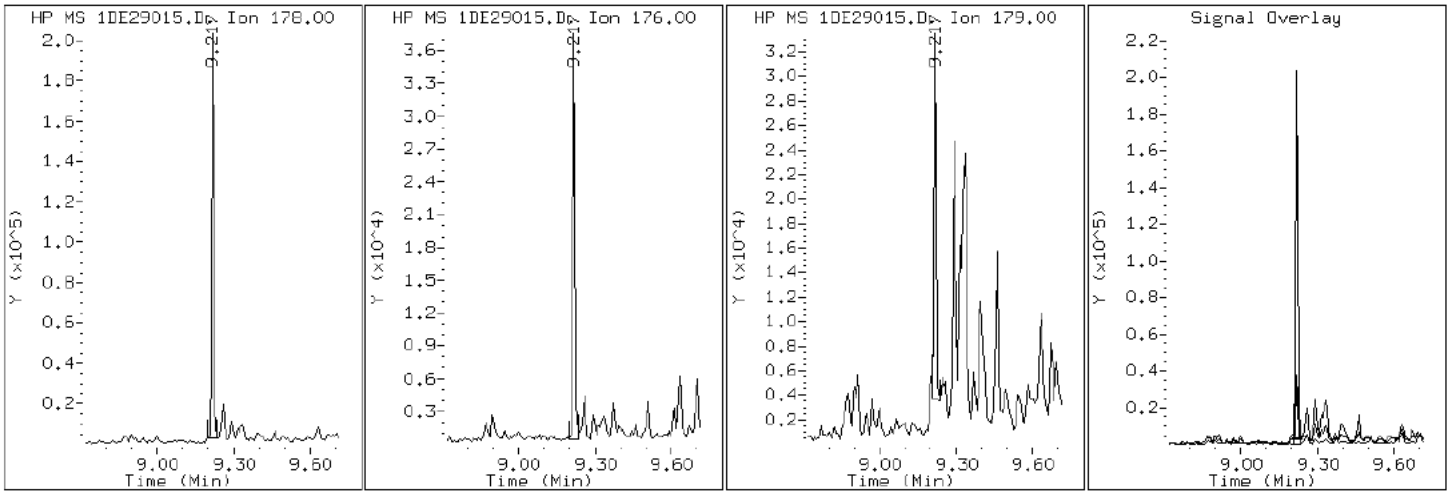
Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC

12 Phenanthrene



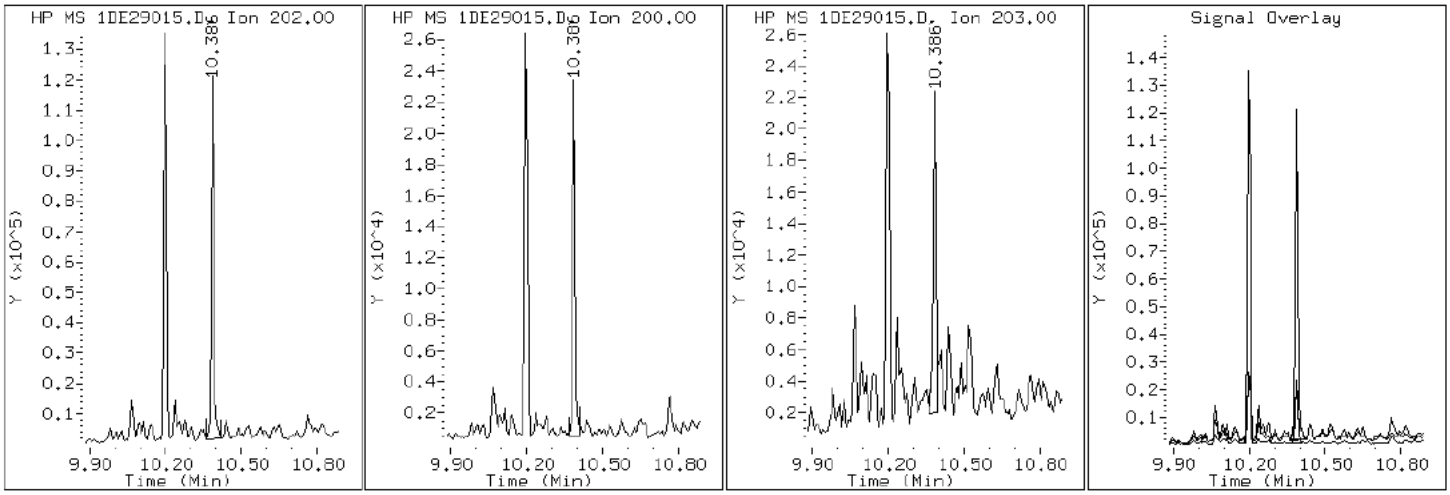
Data File: 1DE29015.D

Date: 29-MAY-2013 19:40

Client ID: CV0525A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-23-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DE29015.D
Inj. Date and Time: 29-MAY-2013 19:40
Instrument ID: BSMSD.i
Client ID: CV0525A-CS-SP
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/03/2013

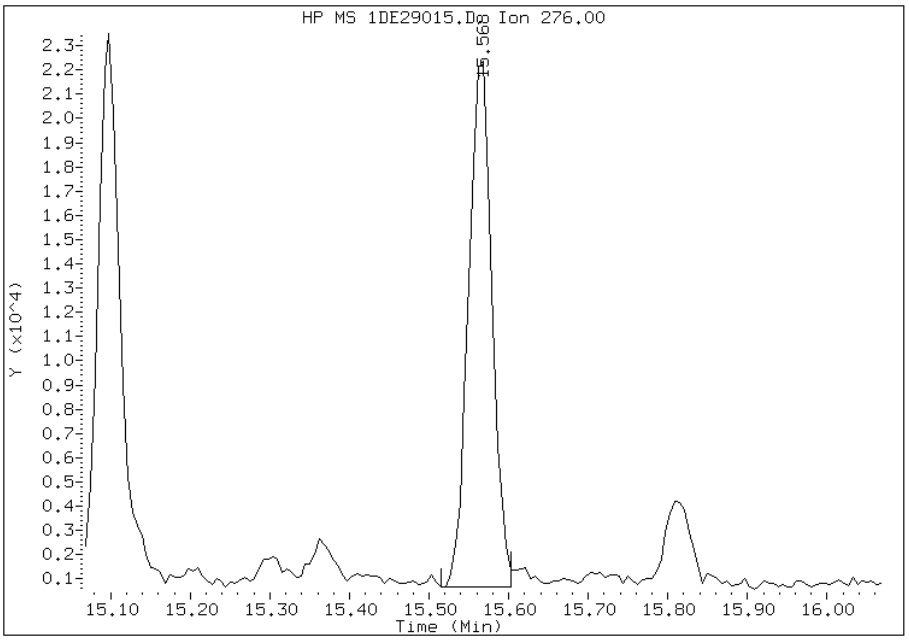
Processing Integration Results

RT: 15.57

Response: 44360

Amount: 1

Conc: 215



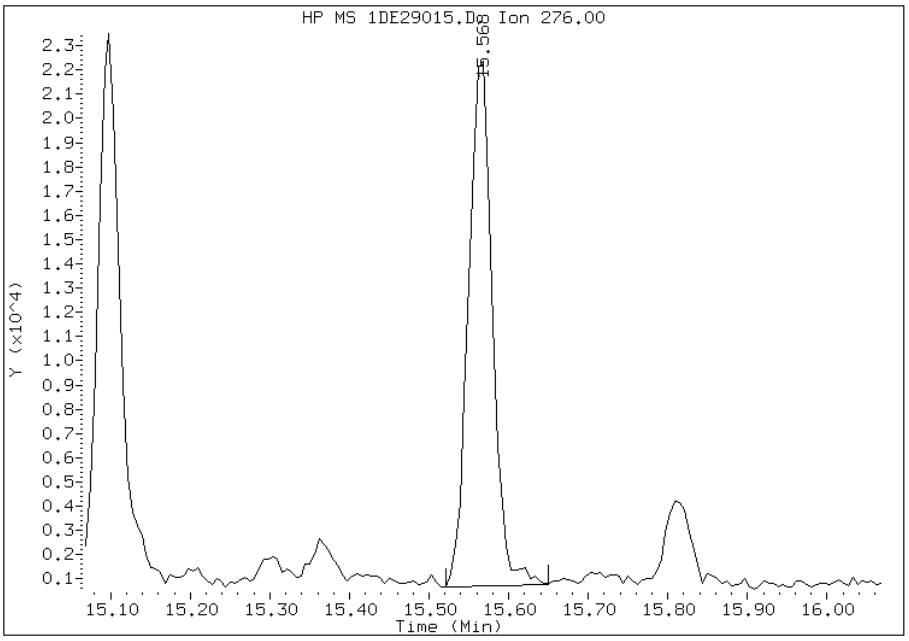
Manual Integration Results

RT: 15.57

Response: 45239

Amount: 1

Conc: 219



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 16:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE29015.D
Inj. Date and Time: 29-MAY-2013 19:40
Instrument ID: BSMSD.i
Client ID: CV0525A-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

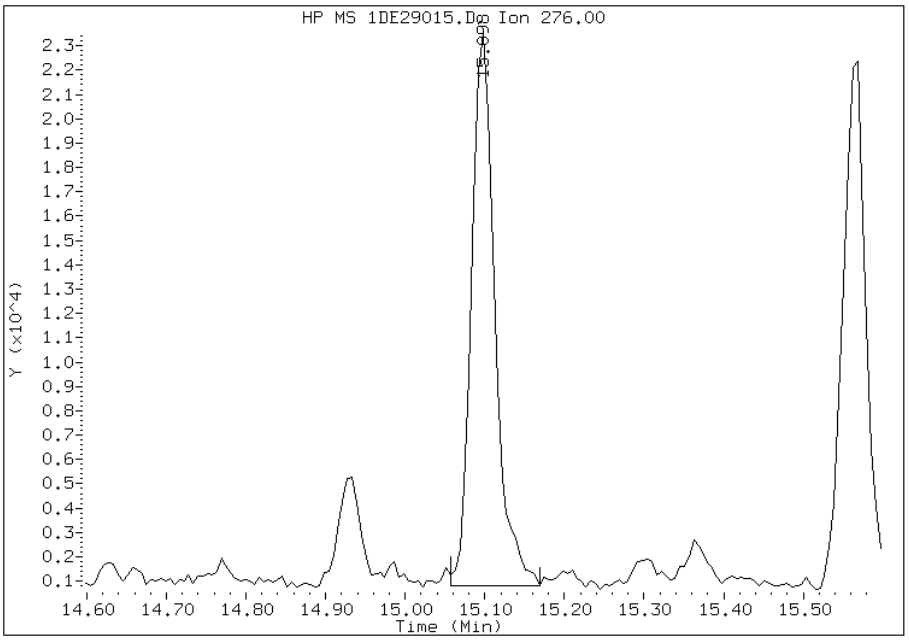
Processing Integration Results

RT: 15.10

Response: 46028

Amount: 1

Conc: 244



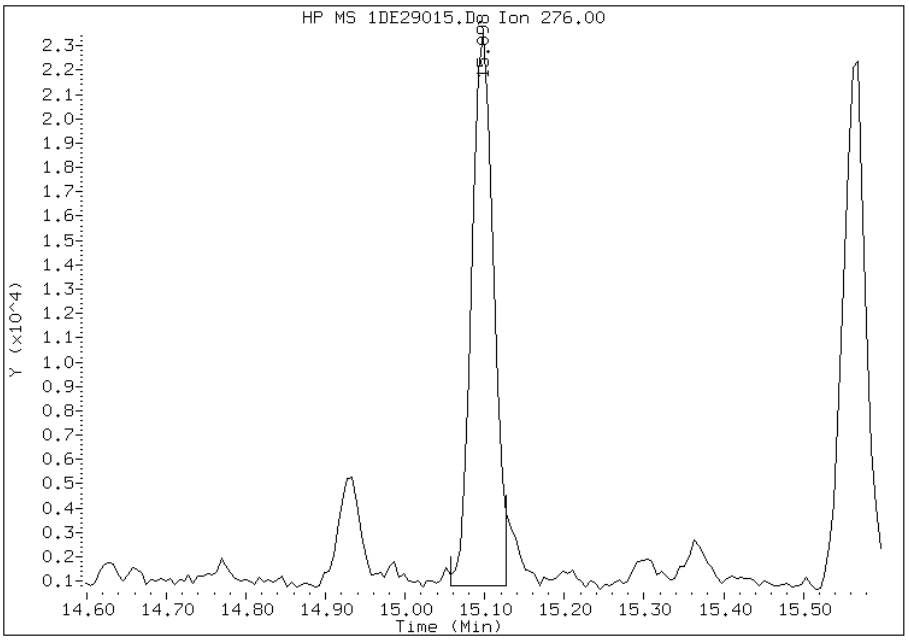
Manual Integration Results

RT: 15.10

Response: 43530

Amount: 1

Conc: 233



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 16:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV0525B-CS-SP | Lab Sample ID: 680-90622-24

Matrix: Solid | Lab File ID: 1DE29016.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 10:05

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 14.96(g) | Date Analyzed: 05/29/2013 20:02

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

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

% Moisture: 25.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137911 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	45	J	140	27
208-96-8	Acenaphthylene	30	J	54	6.8
120-12-7	Anthracene	46		11	5.7
56-55-3	Benzo[a]anthracene	200		11	5.3
50-32-8	Benzo[a]pyrene	220	F	14	7.0
205-99-2	Benzo[b]fluoranthene	390		16	8.2
191-24-2	Benzo[g,h,i]perylene	180		27	5.9
207-08-9	Benzo[k]fluoranthene	110		11	4.9
218-01-9	Chrysene	430		12	6.1
53-70-3	Dibenz(a,h)anthracene	66		27	5.5
206-44-0	Fluoranthene	300		27	5.4
86-73-7	Fluorene	31		27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	170		27	9.6
90-12-0	1-Methylnaphthalene	220		54	5.9
91-57-6	2-Methylnaphthalene	430		54	9.6
91-20-3	Naphthalene	460		54	5.9
85-01-8	Phenanthrene	330	B	11	5.3
129-00-0	Pyrene	280		27	5.0

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\1D052913.b\1DE29016.D
Lab Smp Id: 680-90622-A-24-A Client Smp ID: CV0525B-CS-SP
Inj Date : 29-MAY-2013 20:02
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90622-a-24-a
Misc Info : 680-90622-A-24-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\dFASTPAHi.m
Meth Date : 29-May-2013 17:42 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	25.850	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.278	6.277	(1.000)	3806956	40.0000	
* 7	Acenaphthene-d10	164	7.946	7.945	(1.000)	2069128	40.0000	
* 11	Phenanthrene-d10	188	9.204	9.197	(1.000)	3265799	40.0000	
$ 15	o-Terphenyl	230	9.509	9.508	(1.033)	298239	6.23346	560
* 19	Chrysene-d12	240	11.566	11.559	(1.000)	2885858	40.0000	
* 24	Perylene-d12	264	13.475	13.456	(1.000)	3172887	40.0000	
2	Naphthalene	128	6.301	6.294	(1.004)	474580	5.05510	460
3	2-Methylnaphthalene	142	6.995	6.993	(1.114)	283856	4.74868	430
4	1-Methylnaphthalene	142	7.089	7.087	(1.129)	150404	2.44405	220
5	1,1'-Biphenyl	154	7.429	7.428	(0.935)	57874	0.82788	75
6	Acenaphthylene	152	7.817	7.816	(0.984)	28938	0.33732	30
8	Acenaphthene	154	7.970	7.969	(1.003)	27132	0.49855	45
9	Dibenzofuran	168	8.117	8.116	(1.021)	55147	0.73490	66
10	Fluorene	166	8.411	8.409	(1.058)	21153	0.34352	31(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.221	9.214	(1.002)	324600	3.66993	330
13 Anthracene	178	9.257	9.255	(1.006)	43936	0.51196	46
16 Fluoranthene	202	10.203	10.195	(1.109)	302142	3.33910	300
17 Pyrene	202	10.391	10.383	(0.898)	261719	3.09760	280
18 Benzo(a)anthracene	228	11.548	11.541	(0.998)	194277	2.26837	200
20 Chrysene	228	11.589	11.582	(1.002)	364444	4.72552	420
21 Benzo(b)fluoranthene	252	12.905	12.898	(0.958)	344378	4.33246	390
22 Benzo(k)fluoranthene	252	12.935	12.939	(0.960)	99448	1.19472	110(Q)
23 Benzo(a)pyrene	252	13.370	13.362	(0.992)	187420	2.48014	220
25 Indeno(1,2,3-cd)pyrene	276	15.115	15.101	(1.122)	141654	1.86563	170(M)
26 Dibenzo(a,h)anthracene	278	15.144	15.143	(1.124)	50267	0.73485	66
27 Benzo(g,h,i)perylene	276	15.585	15.577	(1.157)	145315	2.01701	180

QC Flag Legend

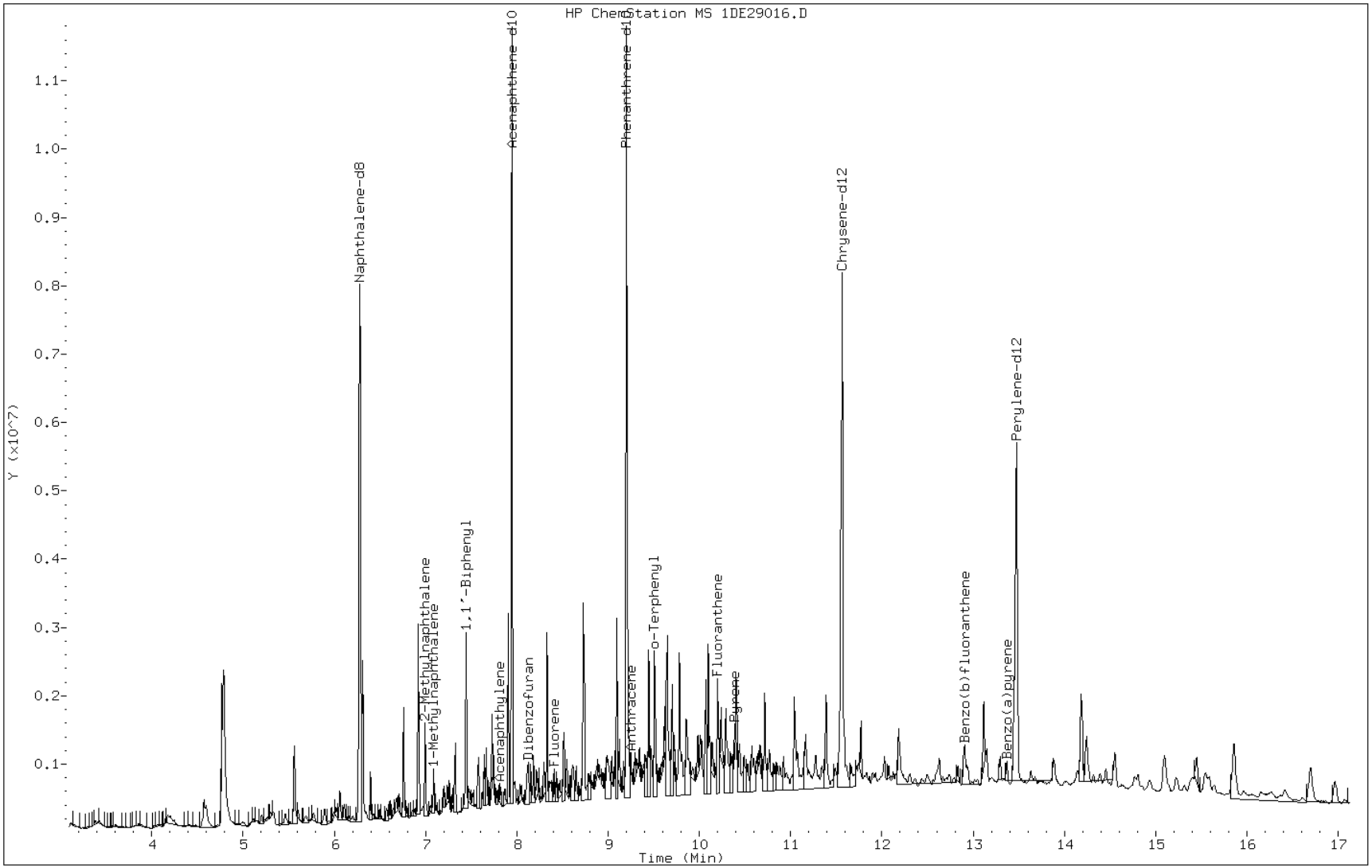
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC



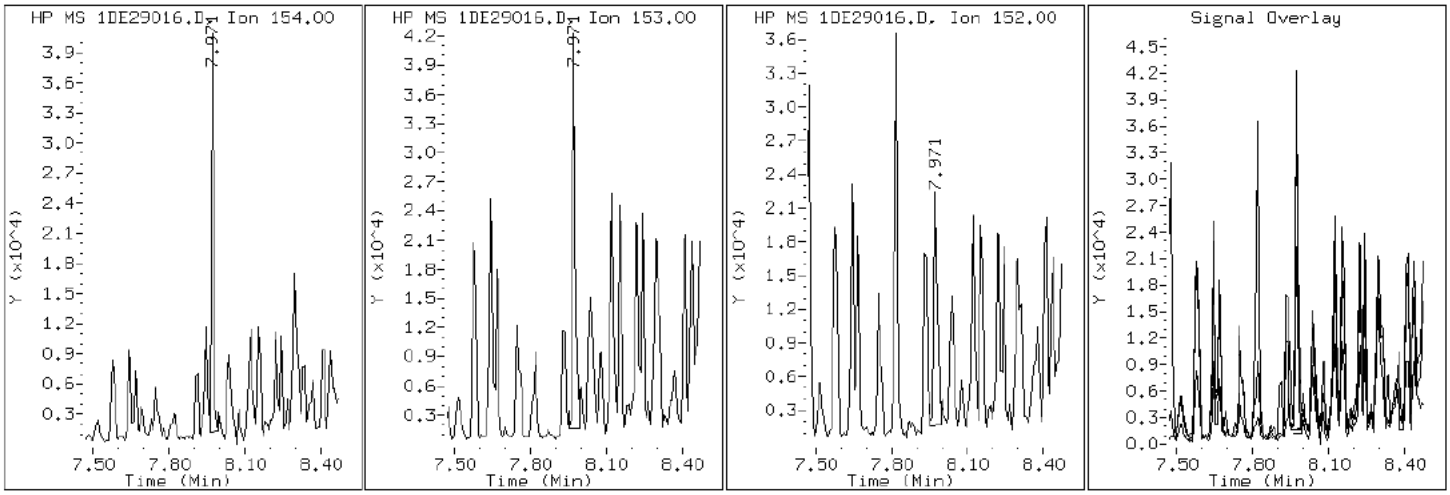
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

8 Acenaphthene



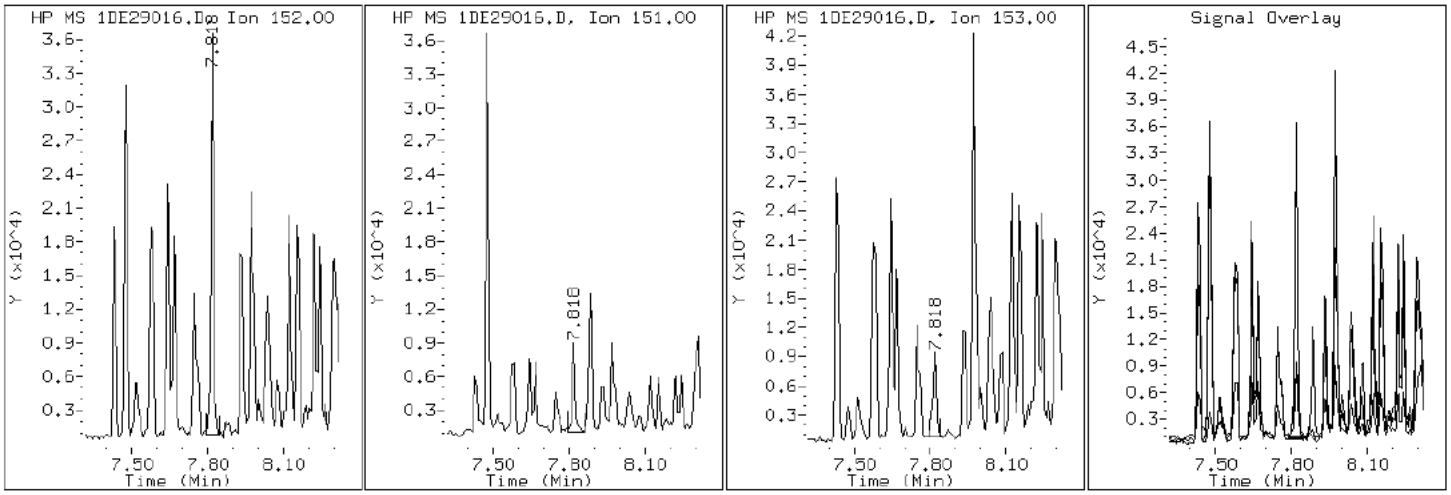
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

6 Acenaphthylene



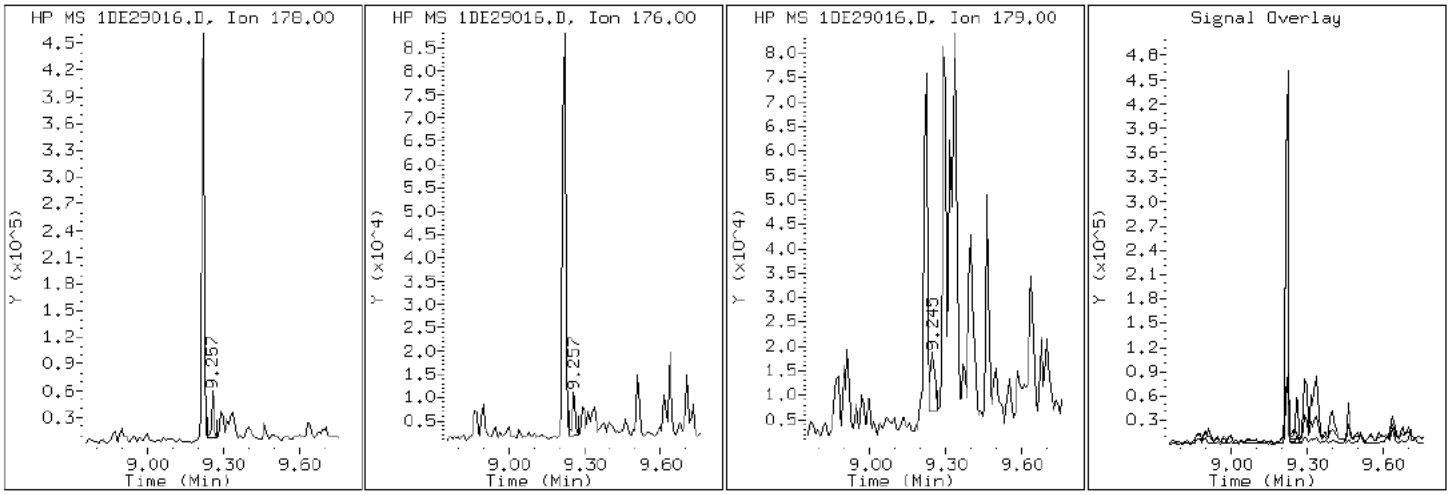
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

13 Anthracene



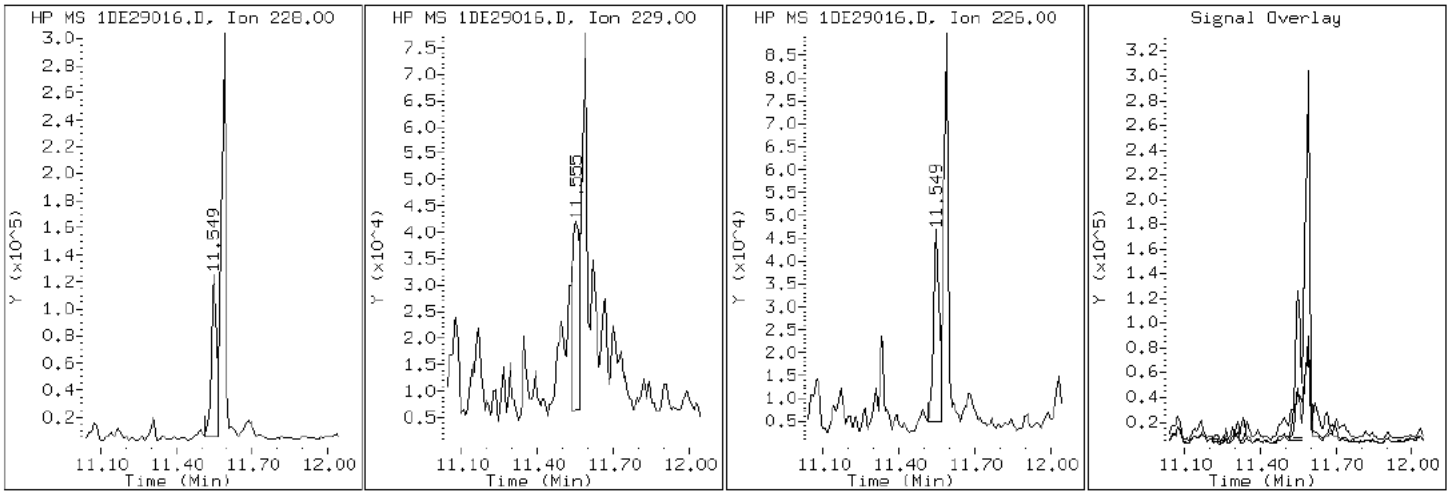
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

18 Benzo(a)anthracene



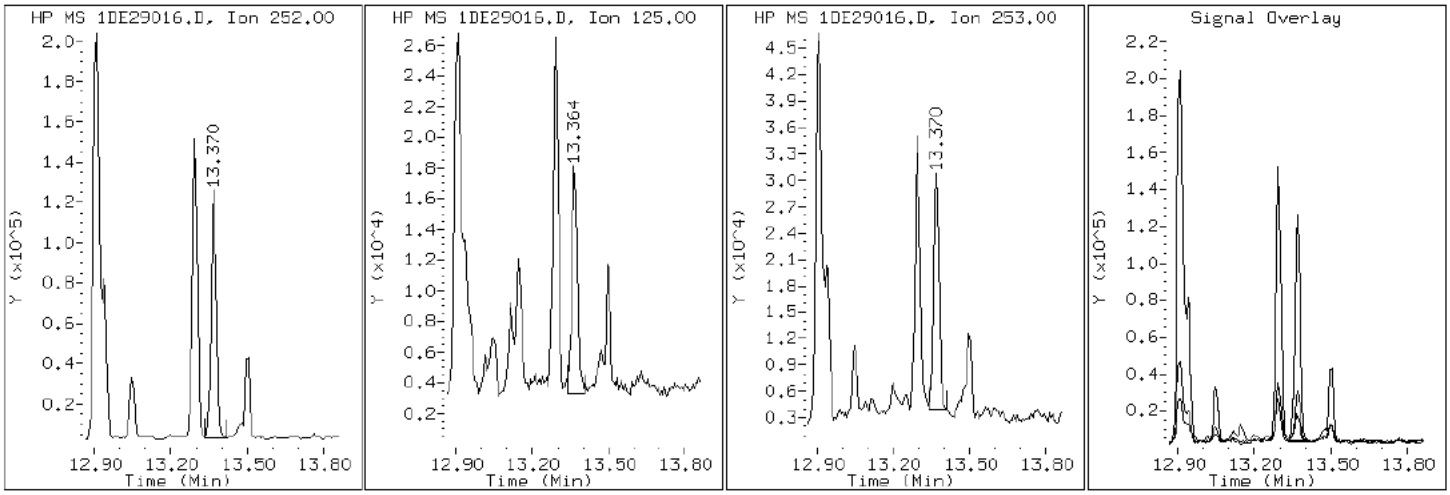
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

23 Benzo(a)pyrene



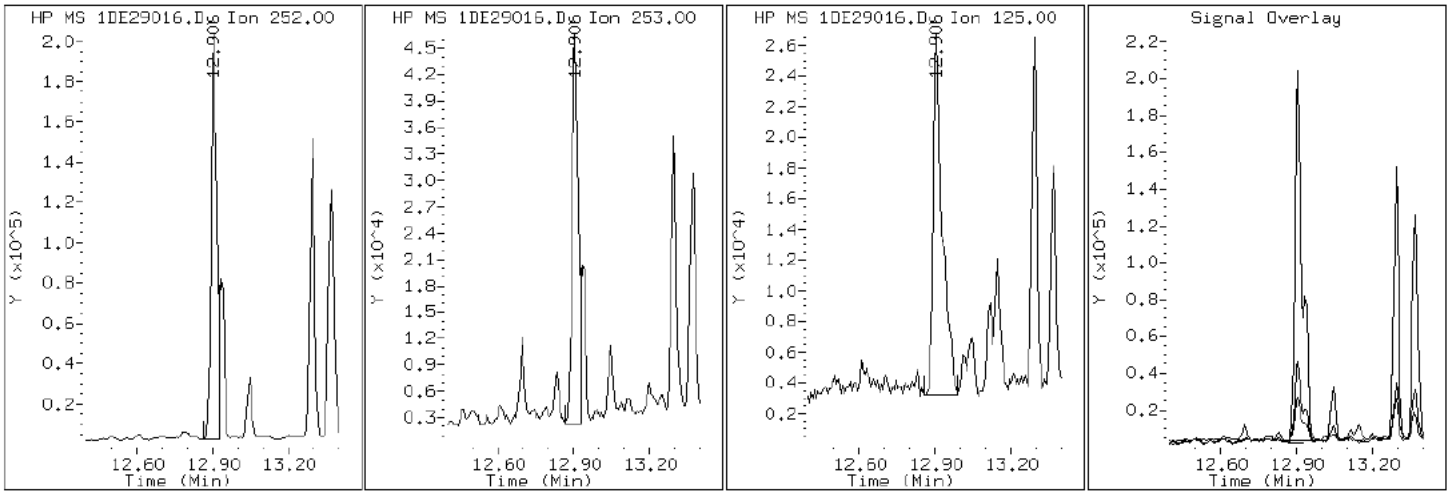
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

21 Benzo(b)fluoranthene



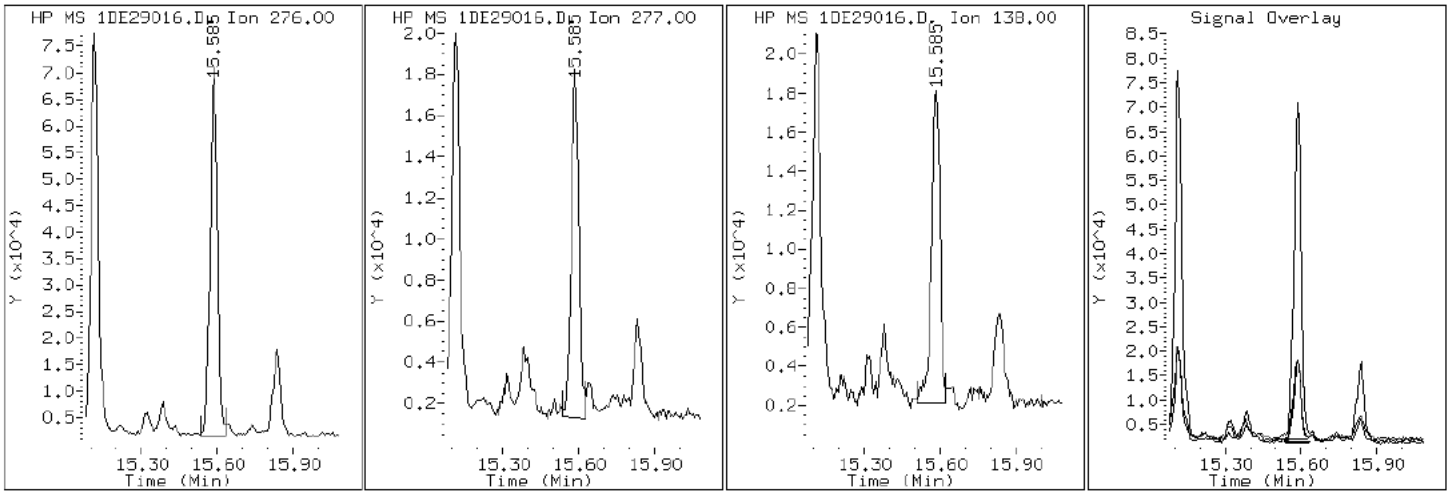
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

27 Benzo(g,h,i)perylene



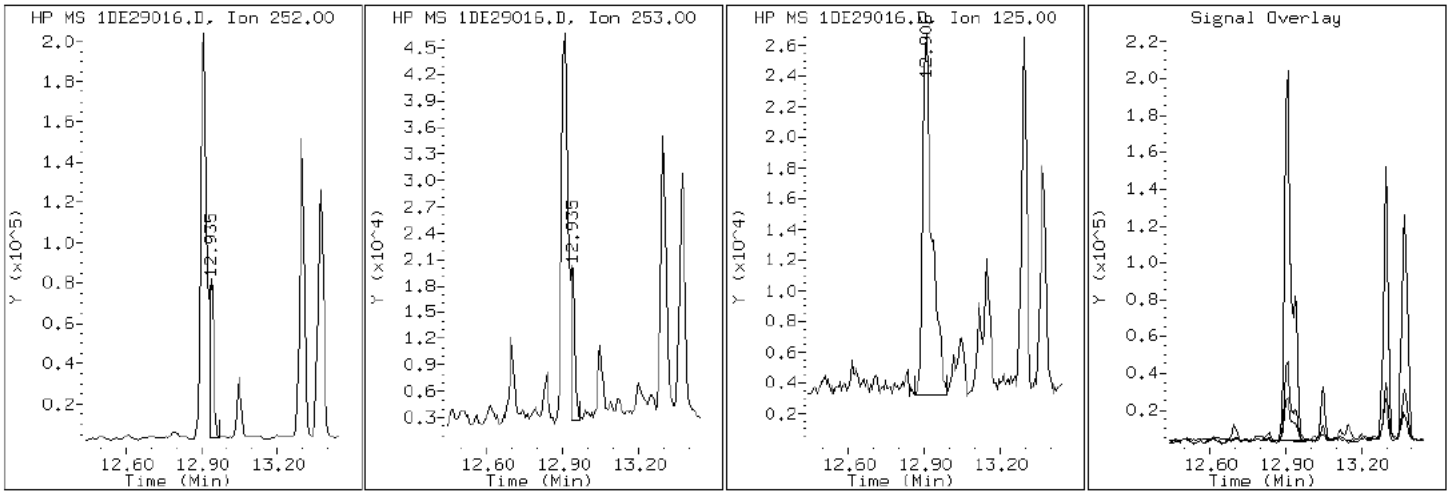
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

22 Benzo(k)fluoranthene



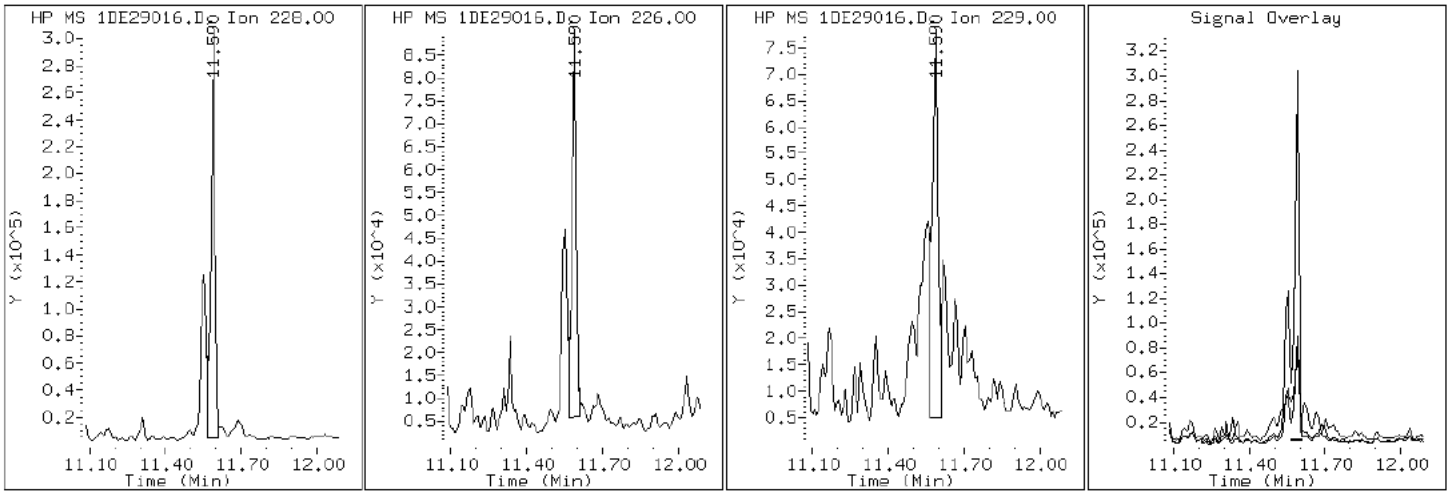
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

20 Chrysene



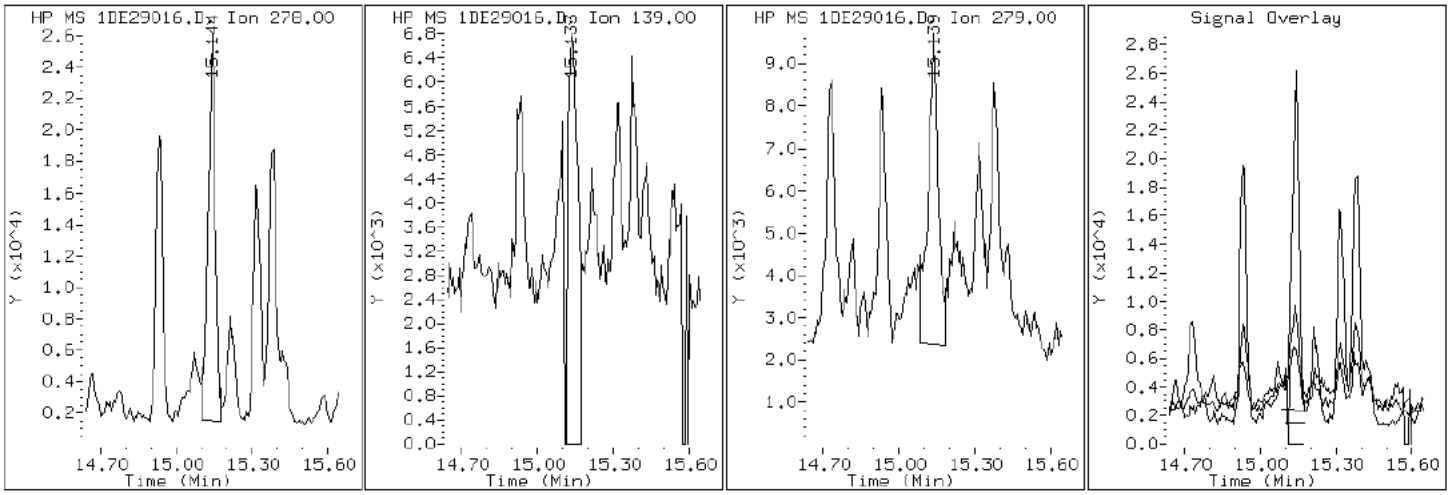
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

26 Dibenzo(a,h)anthracene



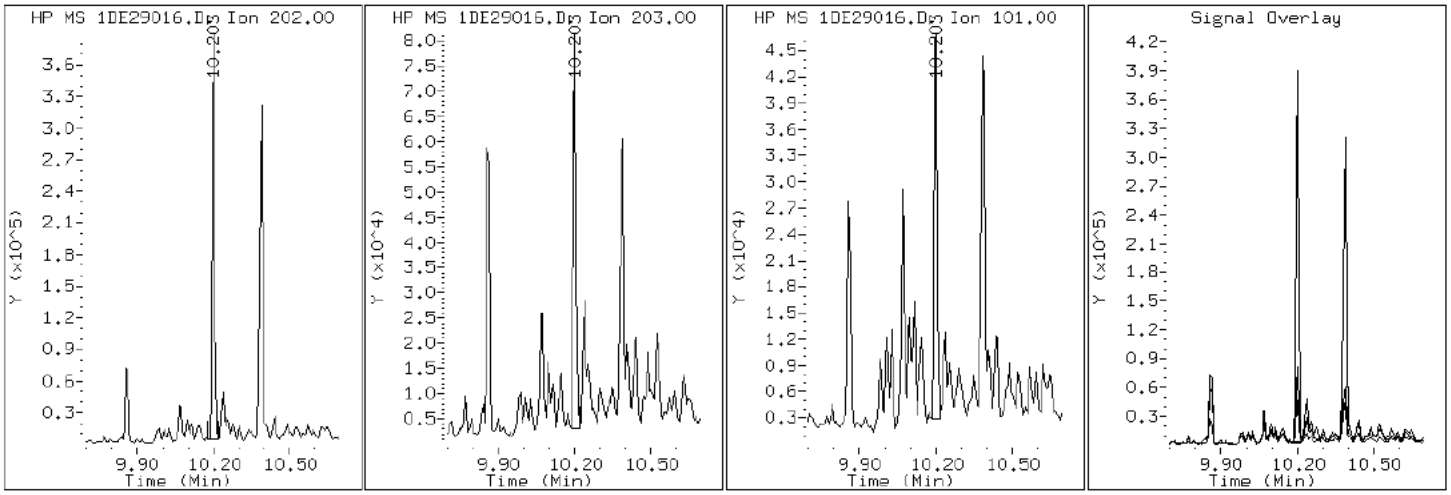
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

16 Fluoranthene



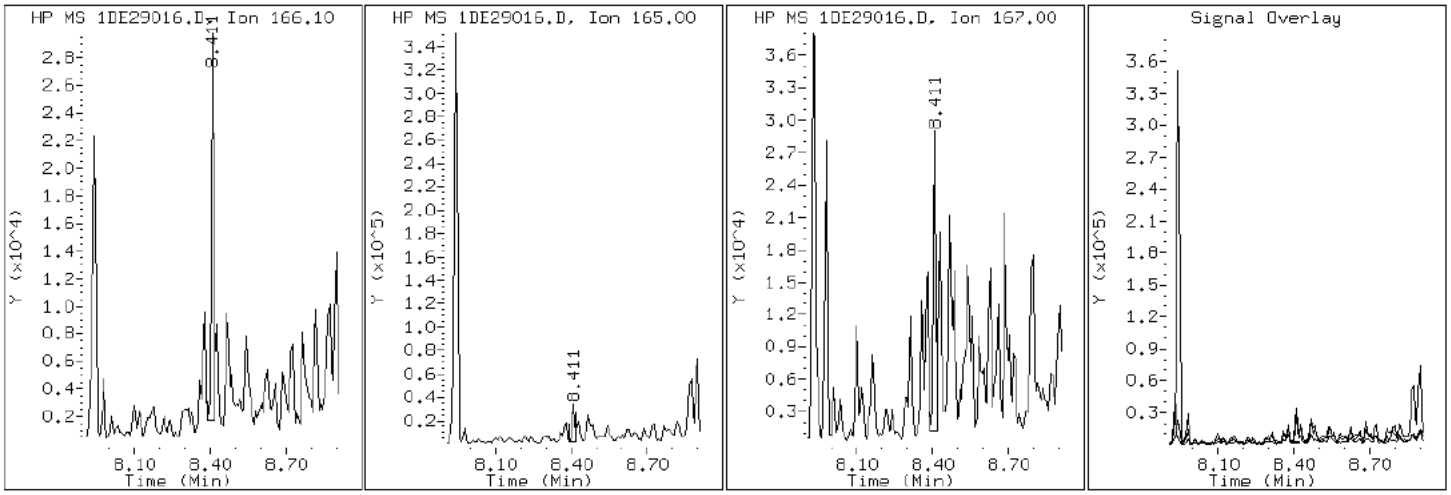
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

10 Fluorene



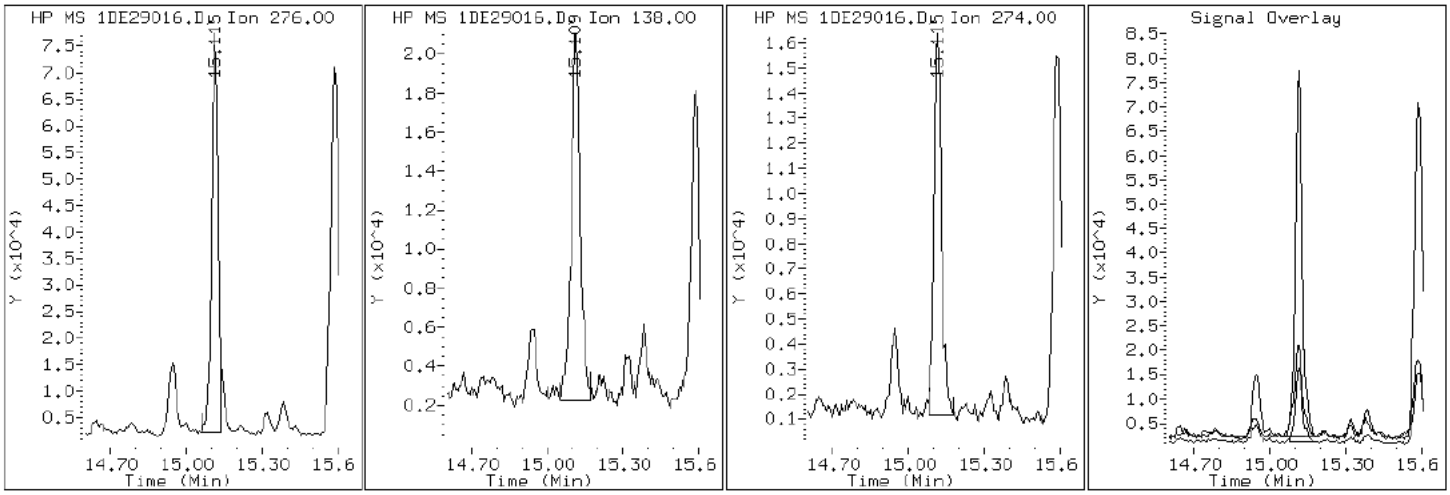
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

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



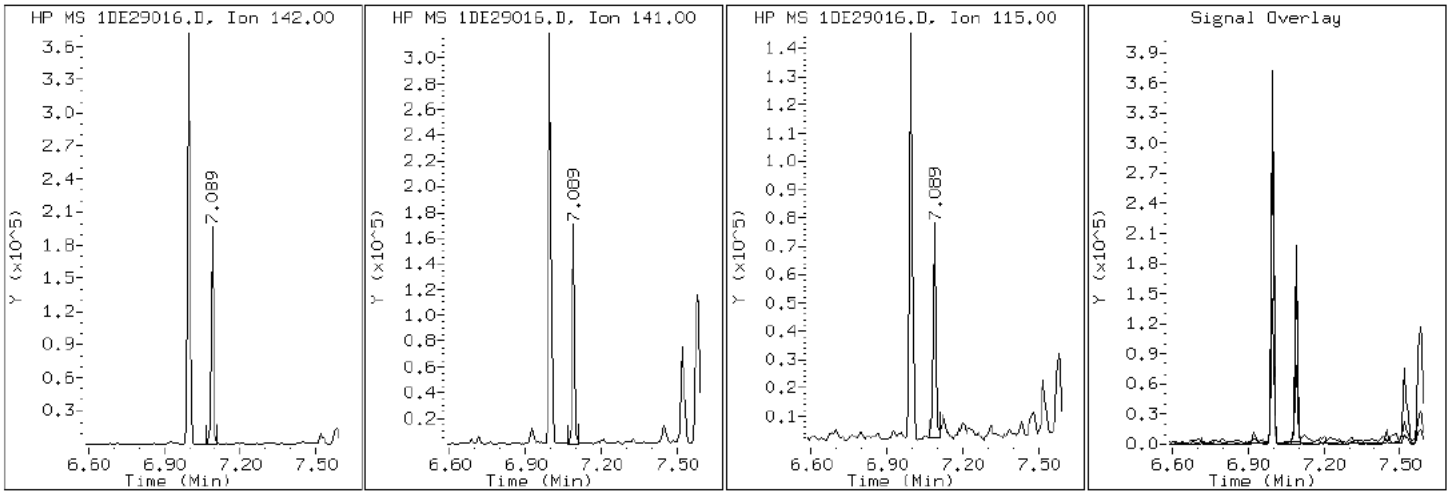
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

4 1-Methylnaphthalene



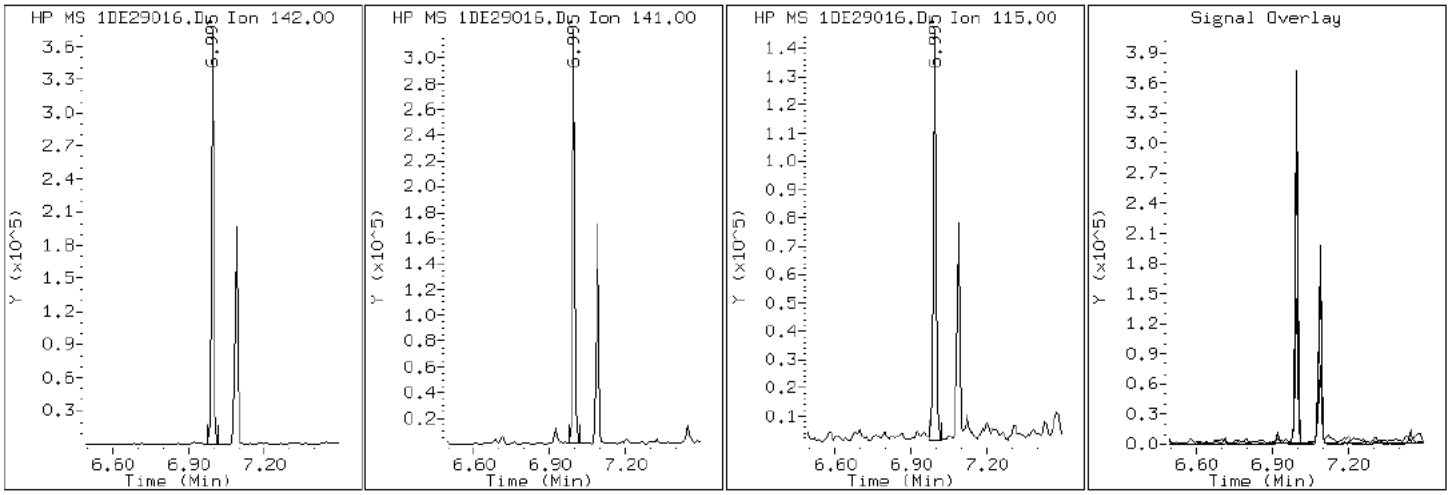
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

3 2-Methylnaphthalene



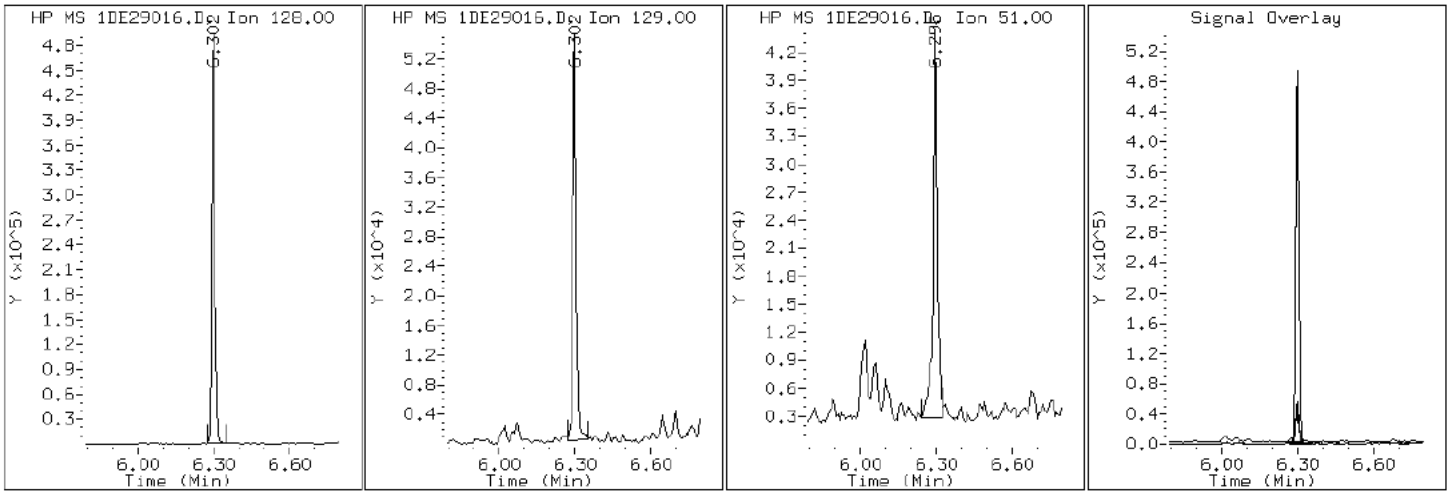
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

2 Naphthalene



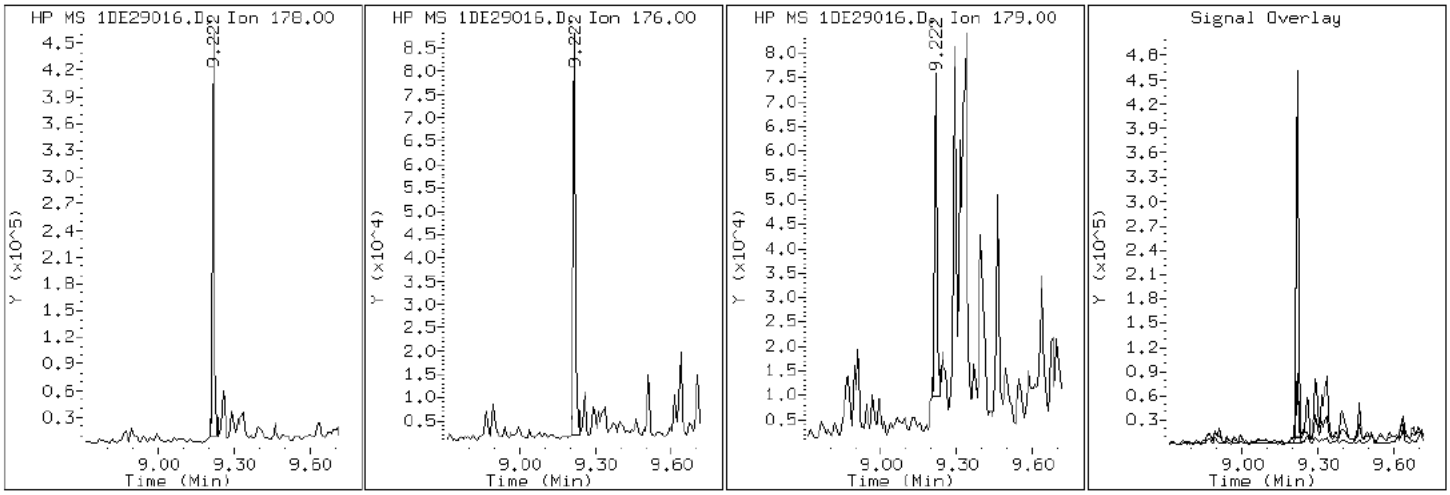
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

12 Phenanthrene



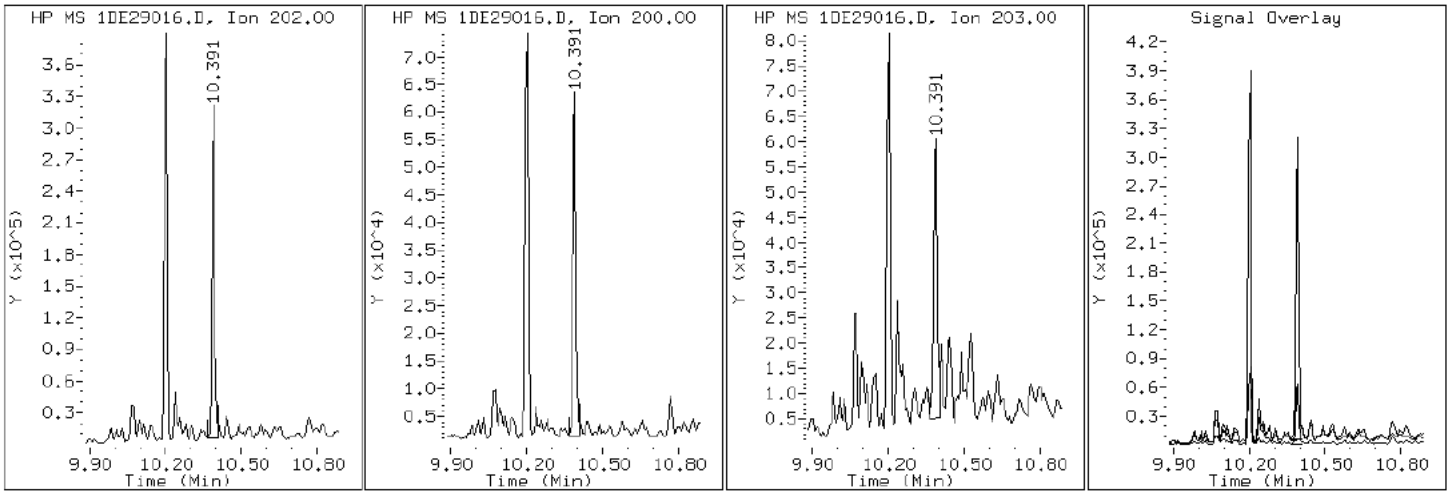
Data File: 1DE29016.D

Date: 29-MAY-2013 20:02

Client ID: CV0525B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-24-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DE29016.D
Inj. Date and Time: 29-MAY-2013 20:02
Instrument ID: BSMSD.i
Client ID: CV0525B-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/30/2013

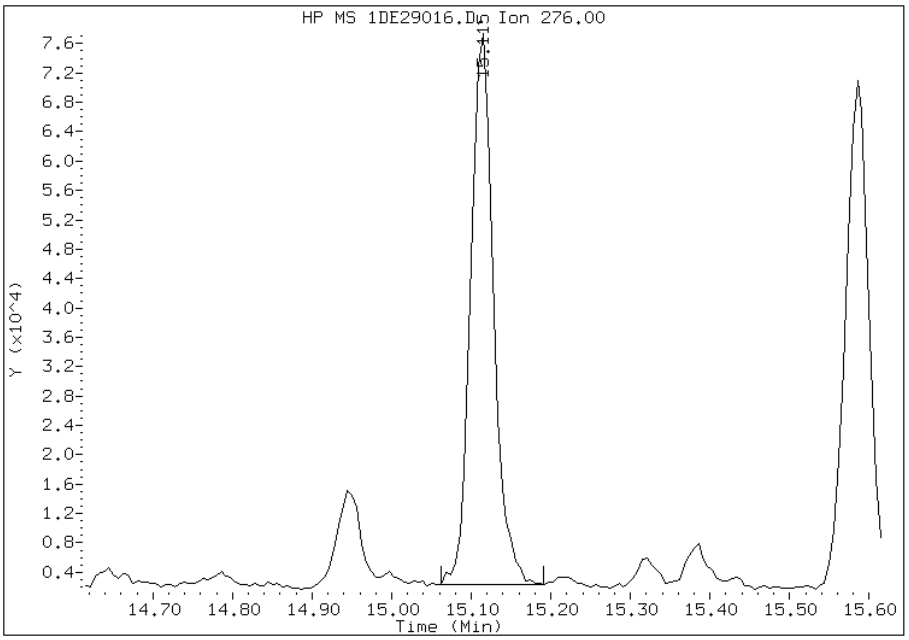
Processing Integration Results

RT: 15.12

Response: 149270

Amount: 2

Conc: 177



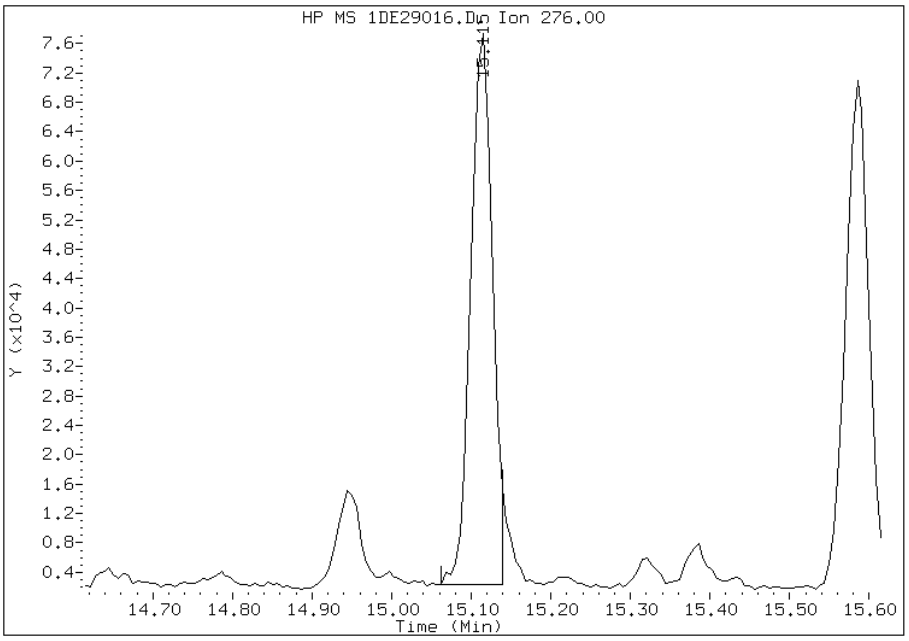
Manual Integration Results

RT: 15.12

Response: 141654

Amount: 2

Conc: 168



Manually Integrated By: cantins
Modification Date: 30-May-2013 13:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV0729A-CS-SP | Lab Sample ID: 680-90622-25

Matrix: Solid | Lab File ID: 1DF03005.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 09:07

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 15.15(g) | Date Analyzed: 06/03/2013 11:59

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

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

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138011 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1200	U	1200	240
208-96-8	Acenaphthylene	480	U	480	59
120-12-7	Anthracene	100	U	100	50
56-55-3	Benzo[a]anthracene	190		95	46
50-32-8	Benzo[a]pyrene	150		120	62
205-99-2	Benzo[b]fluoranthene	140		140	72
191-24-2	Benzo[g,h,i]perylene	110	J	240	52
207-08-9	Benzo[k]fluoranthene	44	J	95	43
218-01-9	Chrysene	120		110	53
53-70-3	Dibenz(a,h)anthracene	89	J	240	49
206-44-0	Fluoranthene	140	J	240	48
86-73-7	Fluorene	240	U	240	49
193-39-5	Indeno[1,2,3-cd]pyrene	180	J	240	84
90-12-0	1-Methylnaphthalene	480	U	480	52
91-57-6	2-Methylnaphthalene	480	U	480	84
91-20-3	Naphthalene	480	U	480	52
85-01-8	Phenanthrene	140	B	95	46
129-00-0	Pyrene	130	J	240	44

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03005.D
Lab Smp Id: 680-90622-A-25-A Client Smp ID: CV0729A-CS-SP
Inj Date : 03-JUN-2013 11:59
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90622-A-25-A
Misc Info : 680-90622-A-25-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\dFASTPAHi.m
Meth Date : 03-Jun-2013 11:25 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 5
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	10.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	16.628	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	6.278	6.278	(1.000)	3839692	40.0000	
*	7 Acenaphthene-d10	164	7.947	7.946	(1.000)	2133789	40.0000	
*	11 Phenanthrene-d10	188	9.204	9.204	(1.000)	3425952	40.0000	
$	15 o-Terphenyl	230	9.510	9.509	(1.033)	40079	0.79853	630
*	19 Chrysene-d12	240	11.566	11.566	(1.000)	3190919	40.0000	
*	24 Perylene-d12	264	13.470	13.469	(1.000)	3231052	40.0000	
	2 Naphthalene	128	6.296	6.295	(1.003)	5229	0.05522	44(Q)
	3 2-Methylnaphthalene	142	6.995	6.995	(1.114)	4469	0.07413	59
	4 1-Methylnaphthalene	142	7.089	7.089	(1.129)	4029	0.06491	51
	12 Phenanthrene	178	9.216	9.221	(1.001)	16657	0.17952	140
	16 Fluoranthene	202	10.197	10.203	(1.108)	17212	0.18132	140
	17 Pyrene	202	10.385	10.391	(0.898)	15633	0.16734	130
	18 Benzo(a)anthracene	228	11.566	11.548	(1.000)	22992	0.24279	190
	20 Chrysene	228	11.584	11.595	(1.002)	13448	0.15770	120

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
21 Benzo(b)fluoranthene	252	12.900	12.911	(0.958)	14394	0.17782	140
22 Benzo(k)fluoranthene	252	12.935	12.946	(0.960)	4691	0.05534	44
23 Benzo(a)pyrene	252	13.364	13.375	(0.992)	7180	0.18807	150
25 Indeno(1,2,3-cd)pyrene	276	15.098	15.120	(1.121)	6707	0.22789	180(M)
26 Dibenzo(a,h)anthracene	278	15.133	15.162	(1.123)	3155	0.11282	89(H)
27 Benzo(g,h,i)perylene	276	15.573	15.602	(1.156)	10225	0.13937	110(H)

QC Flag Legend

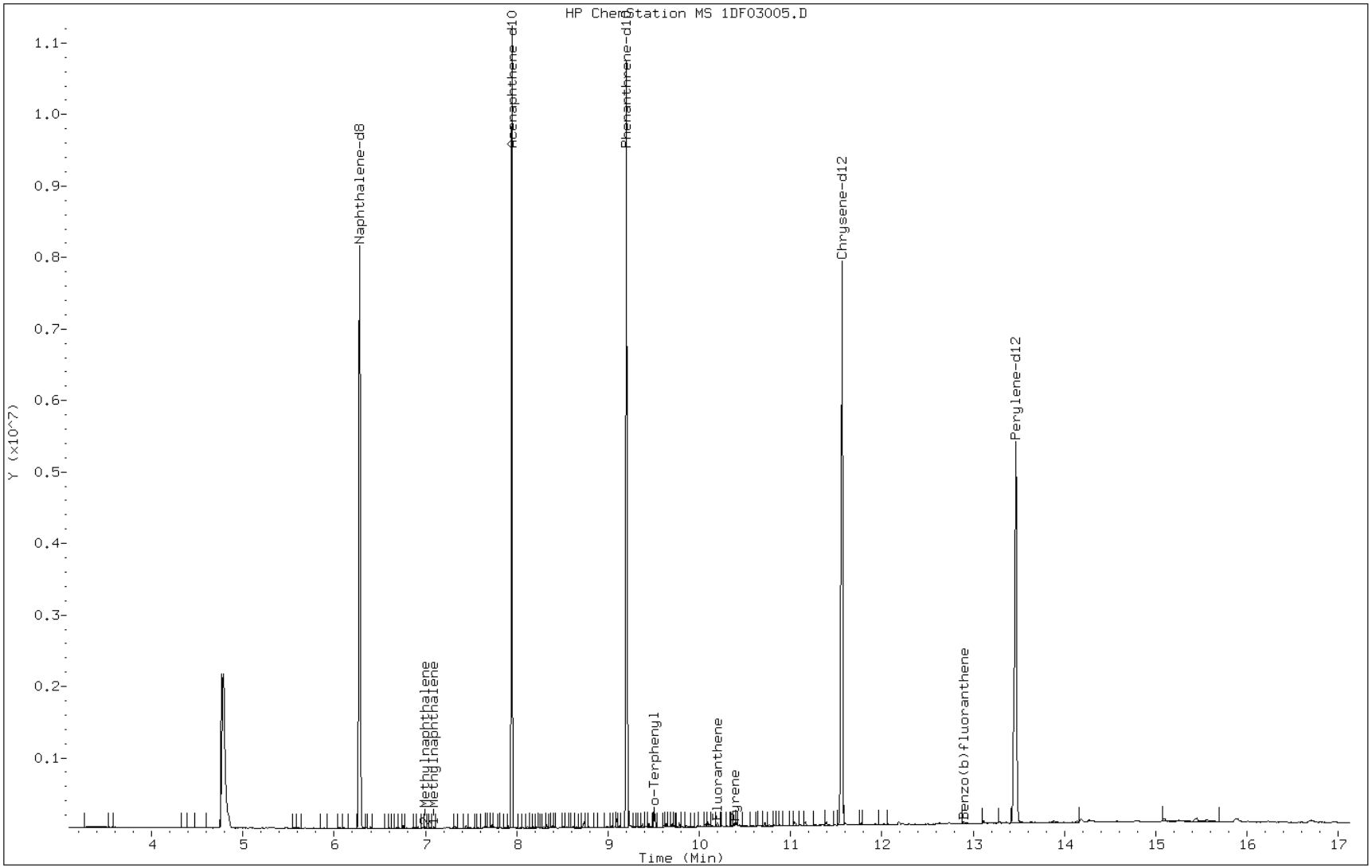
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DF03005.D

Date: 03-JUN-2013 11:59

Client ID: CV0729A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-25-A Operator: SCC



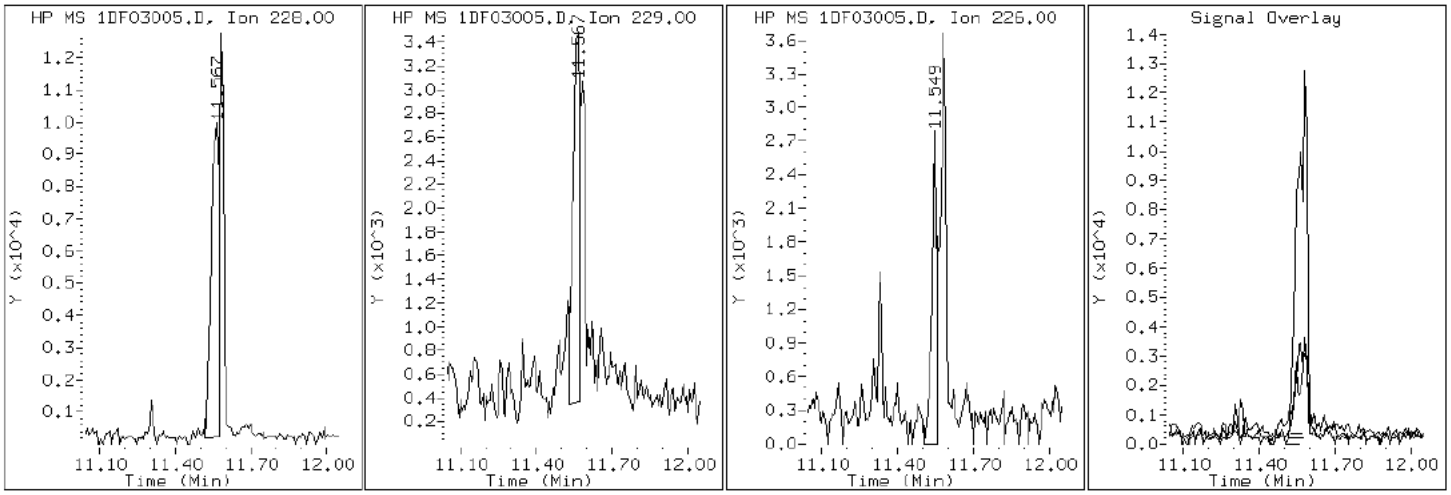
Data File: 1DF03005.D

Date: 03-JUN-2013 11:59

Client ID: CV0729A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-25-A Operator: SCC

18 Benzo(a)anthracene



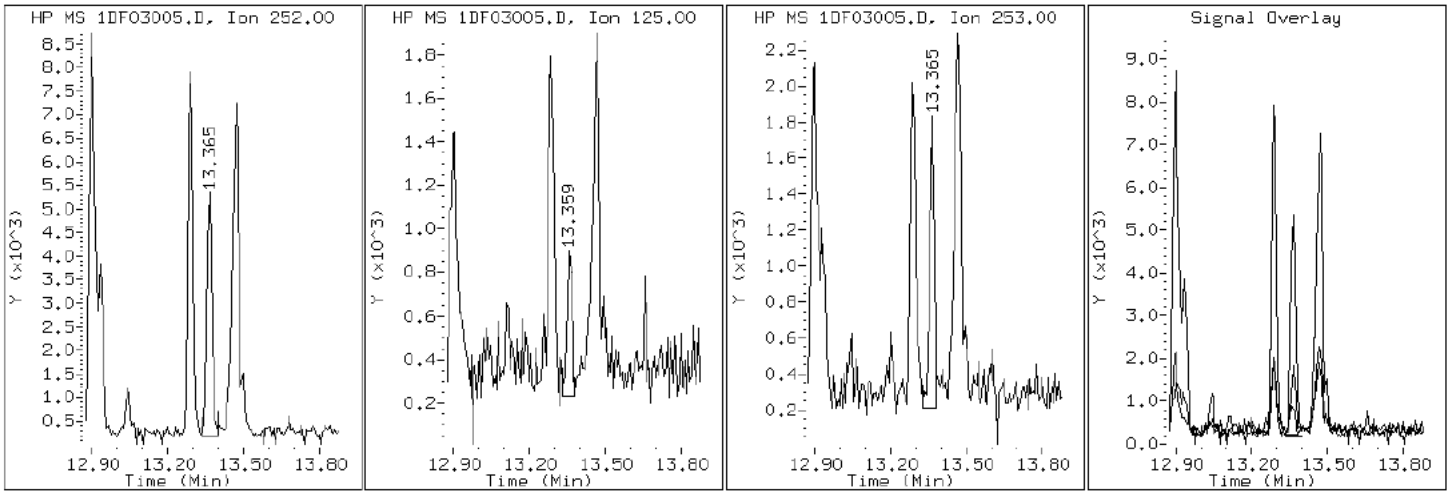
Data File: 1DF03005.D

Date: 03-JUN-2013 11:59

Client ID: CV0729A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-25-A Operator: SCC

23 Benzo(a)pyrene



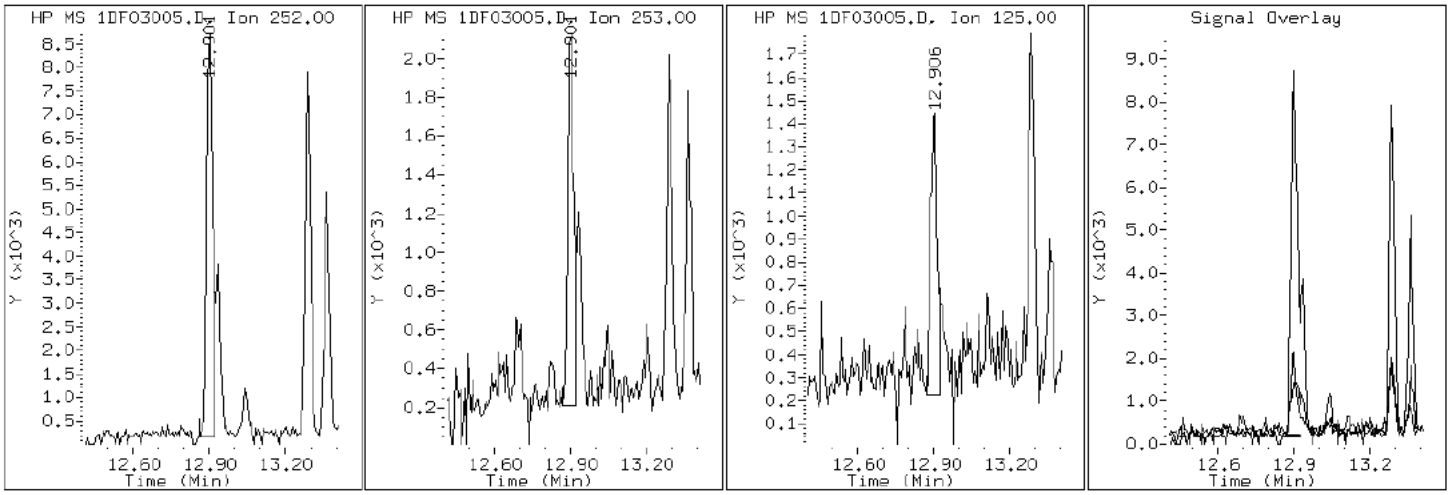
Data File: 1DF03005.D

Date: 03-JUN-2013 11:59

Client ID: CV0729A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-25-A Operator: SCC

21 Benzo(b)fluoranthene



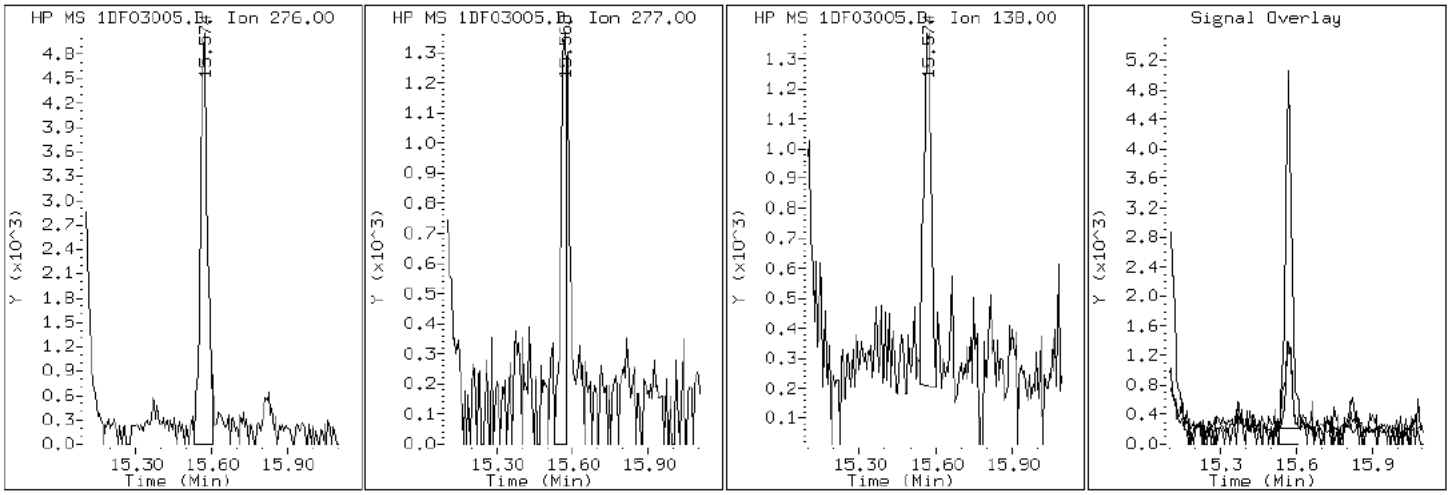
Data File: 1DF03005.D

Date: 03-JUN-2013 11:59

Client ID: CV0729A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-25-A Operator: SCC

27 Benzo(g,h,i)perylene



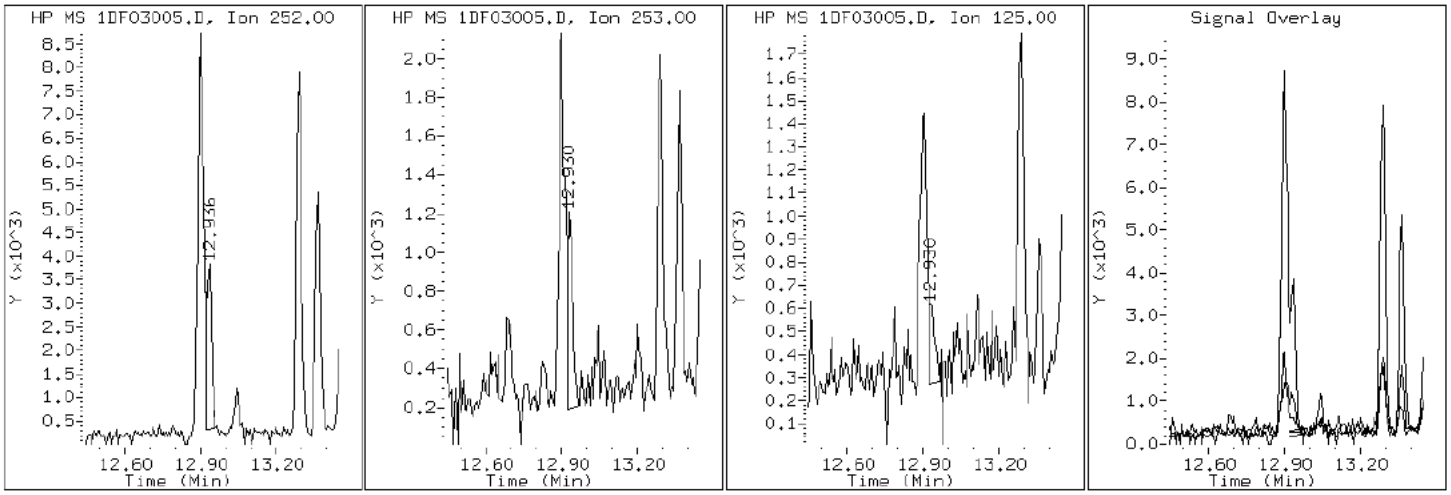
Data File: 1DF03005.D

Date: 03-JUN-2013 11:59

Client ID: CV0729A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-25-A Operator: SCC

22 Benzo(k)fluoranthene



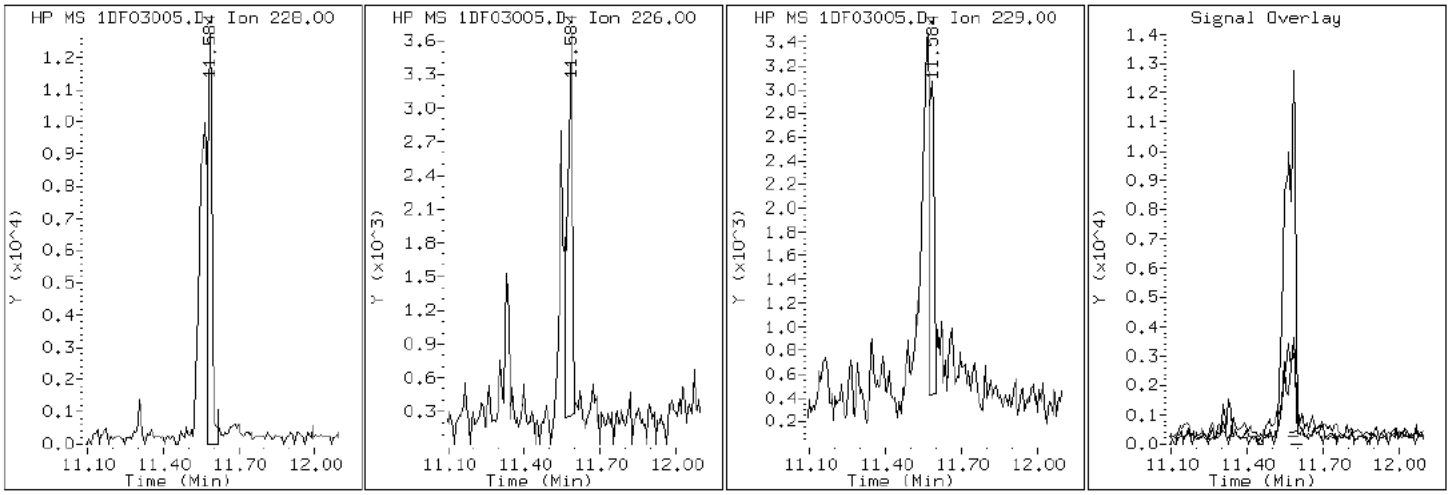
Data File: 1DF03005.D

Date: 03-JUN-2013 11:59

Client ID: CV0729A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-25-A Operator: SCC

20 Chrysene



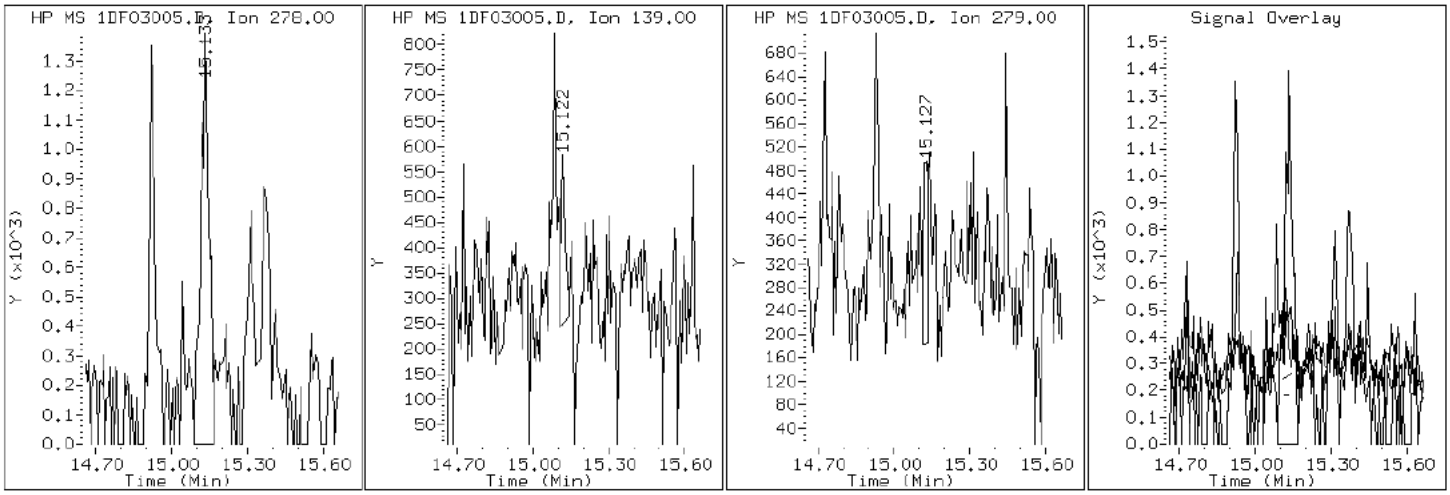
Data File: 1DF03005.D

Date: 03-JUN-2013 11:59

Client ID: CV0729A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-25-A Operator: SCC

26 Dibenzo(a,h)anthracene



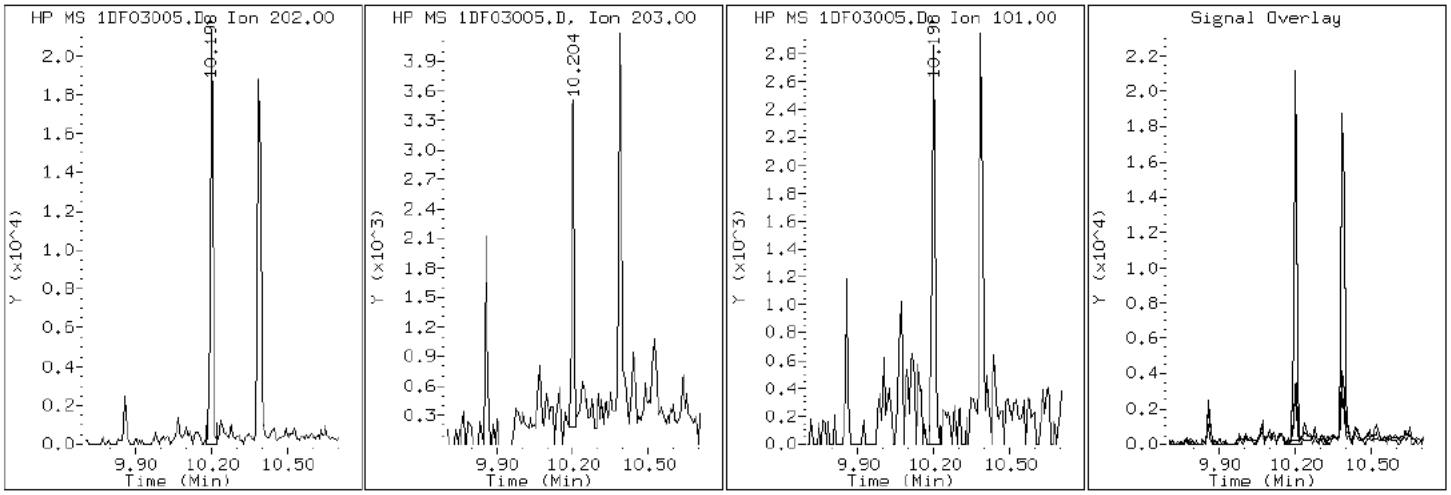
Data File: 1DF03005.D

Date: 03-JUN-2013 11:59

Client ID: CV0729A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-25-A Operator: SCC

16 Fluoranthene



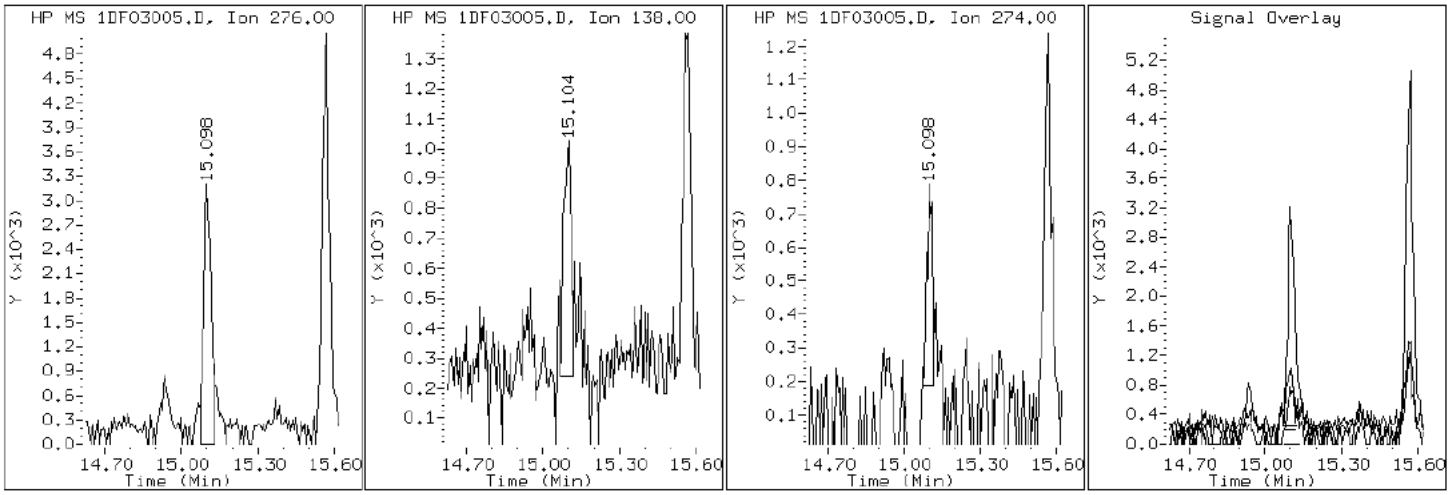
Data File: 1DF03005.D

Date: 03-JUN-2013 11:59

Client ID: CV0729A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-25-A Operator: SCC

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



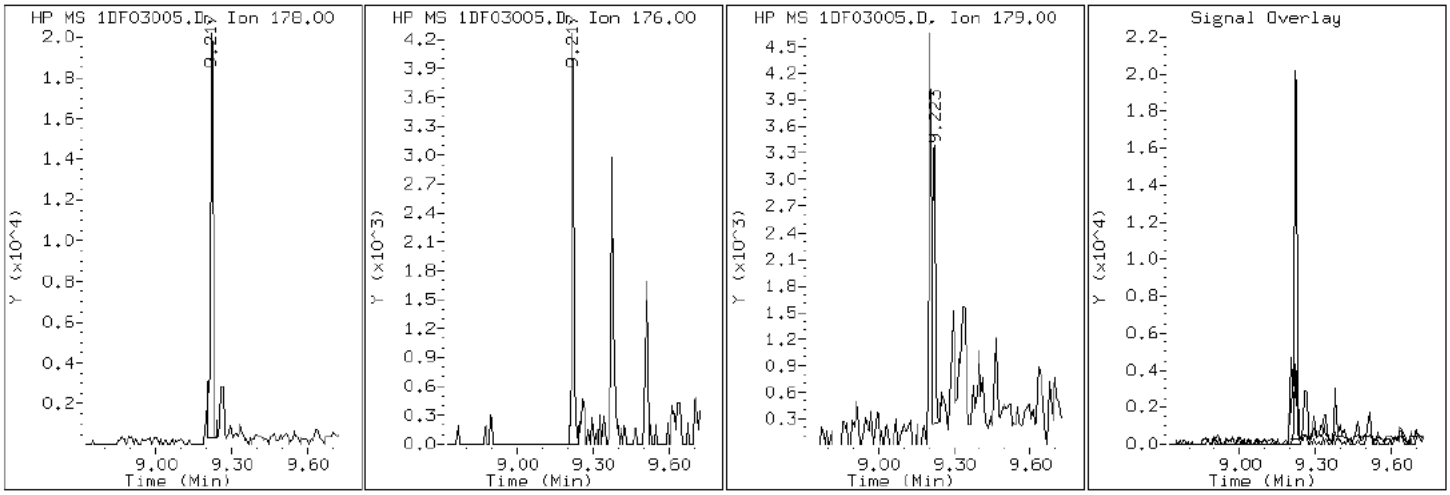
Data File: 1DF03005.D

Date: 03-JUN-2013 11:59

Client ID: CV0729A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-25-A Operator: SCC

12 Phenanthrene



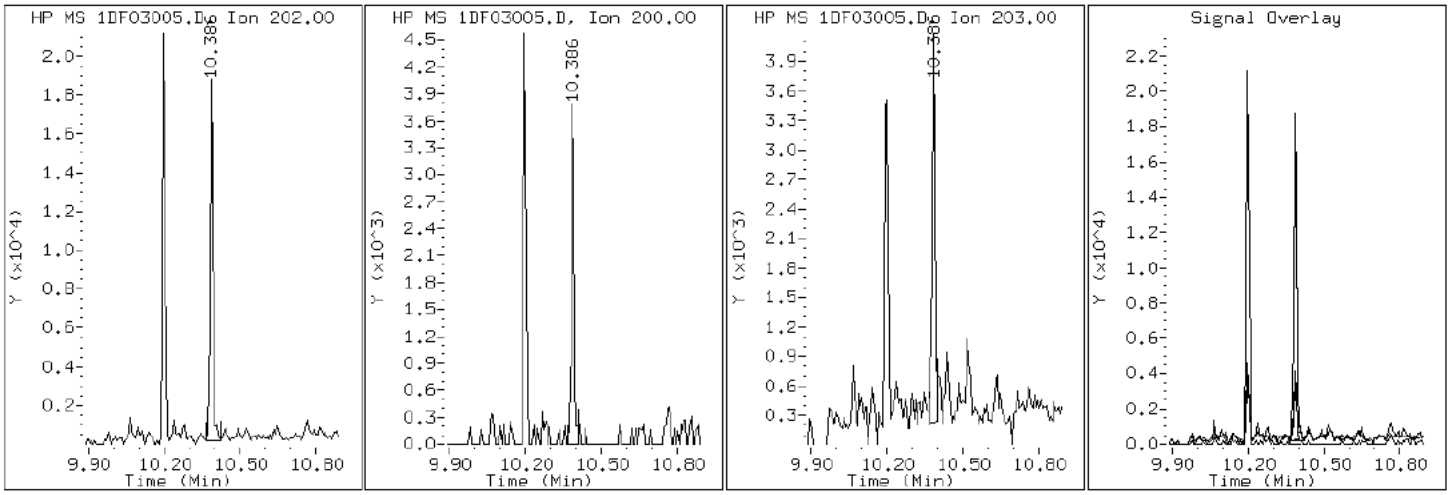
Data File: 1DF03005.D

Date: 03-JUN-2013 11:59

Client ID: CV0729A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-25-A Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF03005.D
Inj. Date and Time: 03-JUN-2013 11:59
Instrument ID: BSMSD.i
Client ID: CV0729A-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

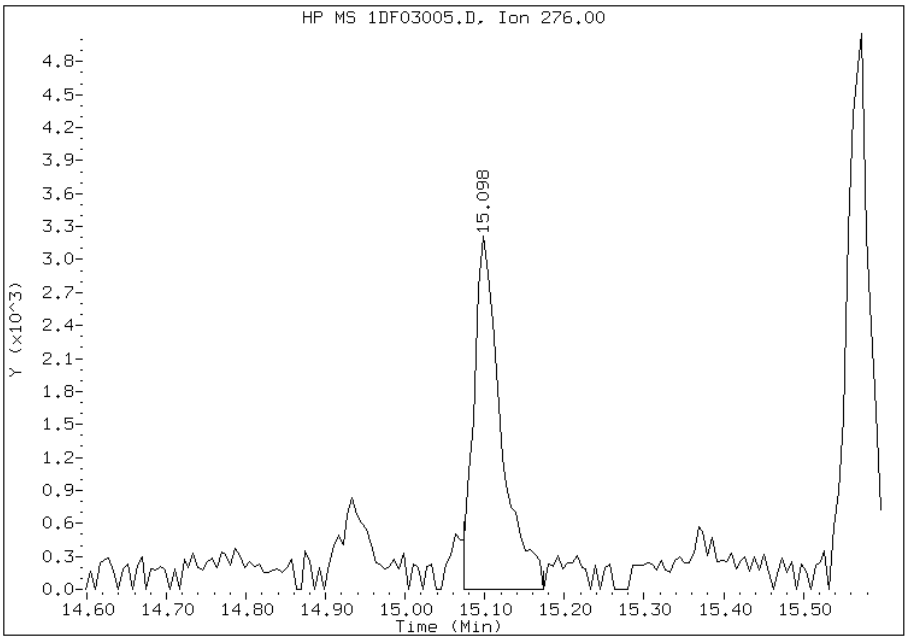
Processing Integration Results

RT: 15.10

Response: 7577

Amount: 0

Conc: 189



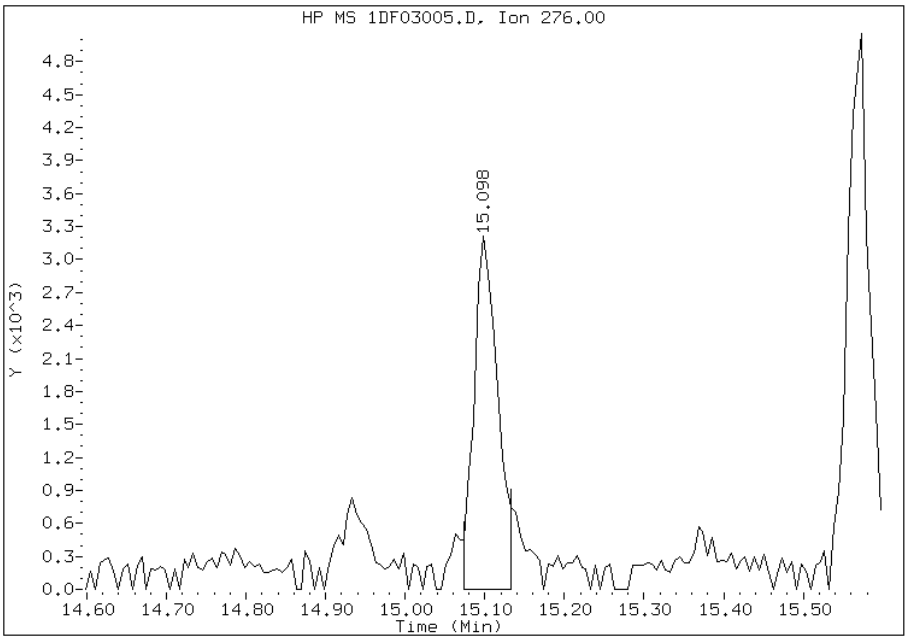
Manual Integration Results

RT: 15.10

Response: 6707

Amount: 0

Conc: 180



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 15:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV0729B-CS-SP | Lab Sample ID: 680-90622-26

Matrix: Solid | Lab File ID: 1DE29020.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 09:21

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 15.10(g) | Date Analyzed: 05/29/2013 21:33

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

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

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

Analysis Batch No.: 137911 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	120	J	210	26
120-12-7	Anthracene	170		43	22
56-55-3	Benzo[a]anthracene	440		41	20
50-32-8	Benzo[a]pyrene	410		54	27
205-99-2	Benzo[b]fluoranthene	720		63	31
191-24-2	Benzo[g,h,i]perylene	220		100	23
207-08-9	Benzo[k]fluoranthene	220		41	19
218-01-9	Chrysene	670		46	23
53-70-3	Dibenz(a,h)anthracene	100		100	21
206-44-0	Fluoranthene	620		100	21
86-73-7	Fluorene	24	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	240		100	37
90-12-0	1-Methylnaphthalene	230		210	23
91-57-6	2-Methylnaphthalene	170	J	210	37
91-20-3	Naphthalene	98	J	210	23
85-01-8	Phenanthrene	390	B	41	20
129-00-0	Pyrene	640		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\1DE29020.D
Lab Smp Id: 680-90622-A-26-A Client Smp ID: CV0729B-CS-SP
Inj Date : 29-MAY-2013 21:33
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90622-a-26-a
Misc Info : 680-90622-A-26-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\dFASTPAHi.m
Meth Date : 29-May-2013 17:42 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 20
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.100	Weight Extracted
M	23.029	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.278	6.277	(1.000)	3959904	40.0000	
* 7	Acenaphthene-d10	164	7.946	7.945	(1.000)	2164223	40.0000	
* 11	Phenanthrene-d10	188	9.204	9.197	(1.000)	3356126	40.0000	
$ 15	o-Terphenyl	230	9.509	9.508	(1.033)	70170	1.42714	490
* 19	Chrysene-d12	240	11.566	11.559	(1.000)	3138505	40.0000	
* 24	Perylene-d12	264	13.481	13.456	(1.000)	3450016	40.0000	
2	Naphthalene	128	6.301	6.294	(1.004)	27708	0.28374	98
3	2-Methylnaphthalene	142	6.995	6.993	(1.114)	31594	0.50813	170
4	1-Methylnaphthalene	142	7.089	7.087	(1.129)	43518	0.67985	230
5	1,1'-Biphenyl	154	7.435	7.428	(0.936)	6061	0.08289	28
6	Acenaphthylene	152	7.817	7.816	(0.984)	31742	0.35374	120
9	Dibenzofuran	168	8.117	8.116	(1.021)	14047	0.17897	62
10	Fluorene	166	8.411	8.409	(1.058)	4573	0.07100	24(Q)
12	Phenanthrene	178	9.221	9.214	(1.002)	102630	1.12911	390

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.257	9.255	(1.006)	43572	0.49405	170
16 Fluoranthene	202	10.203	10.195	(1.109)	167028	1.79622	620
17 Pyrene	202	10.391	10.383	(0.898)	170105	1.85122	640
18 Benzo(a)anthracene	228	11.548	11.541	(0.998)	118291	1.26998	440
20 Chrysene	228	11.589	11.582	(1.002)	162753	1.94044	670
21 Benzo(b)fluoranthene	252	12.905	12.898	(0.957)	180535	2.08879	720
22 Benzo(k)fluoranthene	252	12.941	12.939	(0.960)	57115	0.63103	220
23 Benzo(a)pyrene	252	13.369	13.362	(0.992)	93048	1.18592	410
25 Indeno(1,2,3-cd)pyrene	276	15.114	15.101	(1.121)	48818	0.69242	240(M)
26 Dibenzo(a,h)anthracene	278	15.144	15.143	(1.123)	17979	0.29002	100
27 Benzo(g,h,i)perylene	276	15.585	15.577	(1.156)	49419	0.63085	220

QC Flag Legend

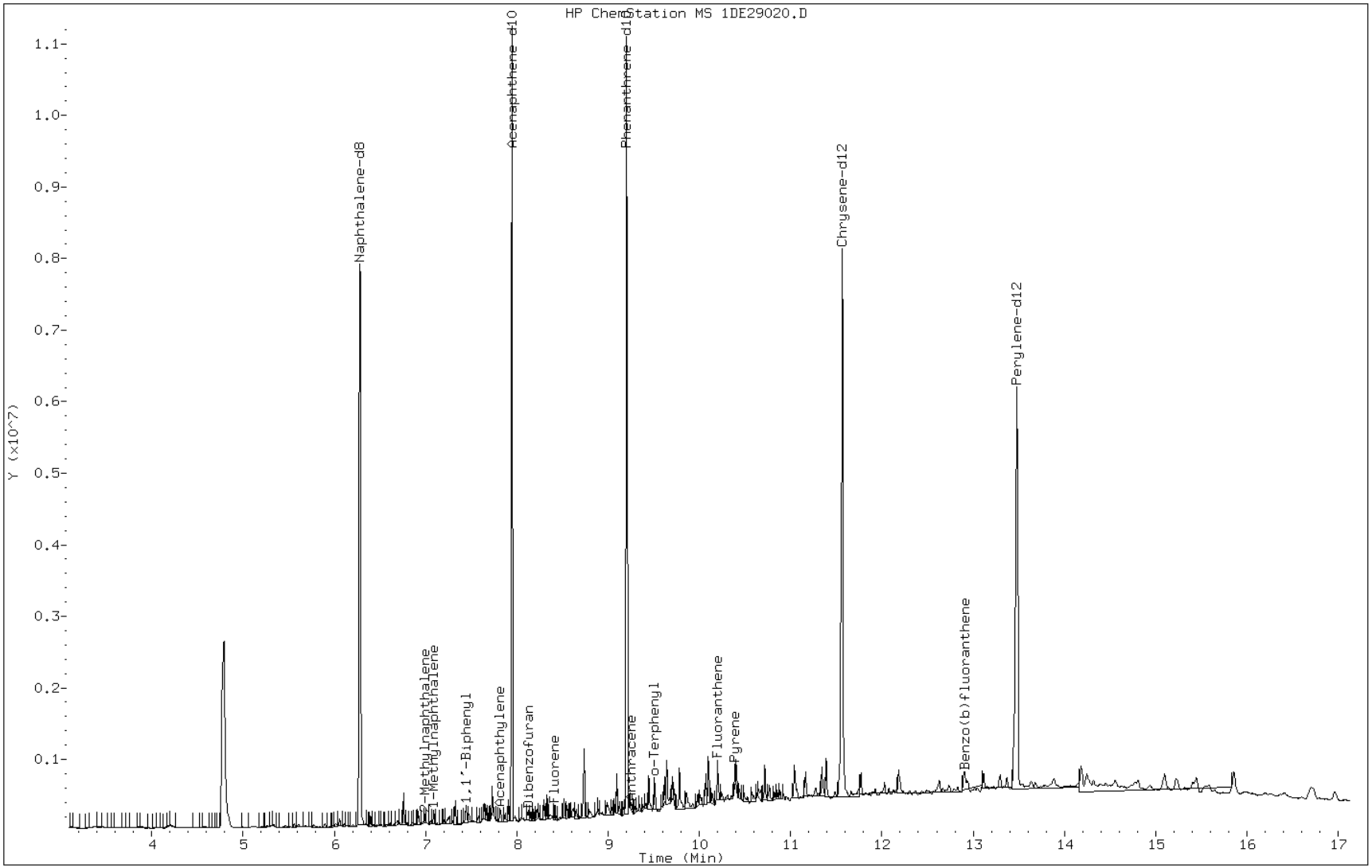
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC



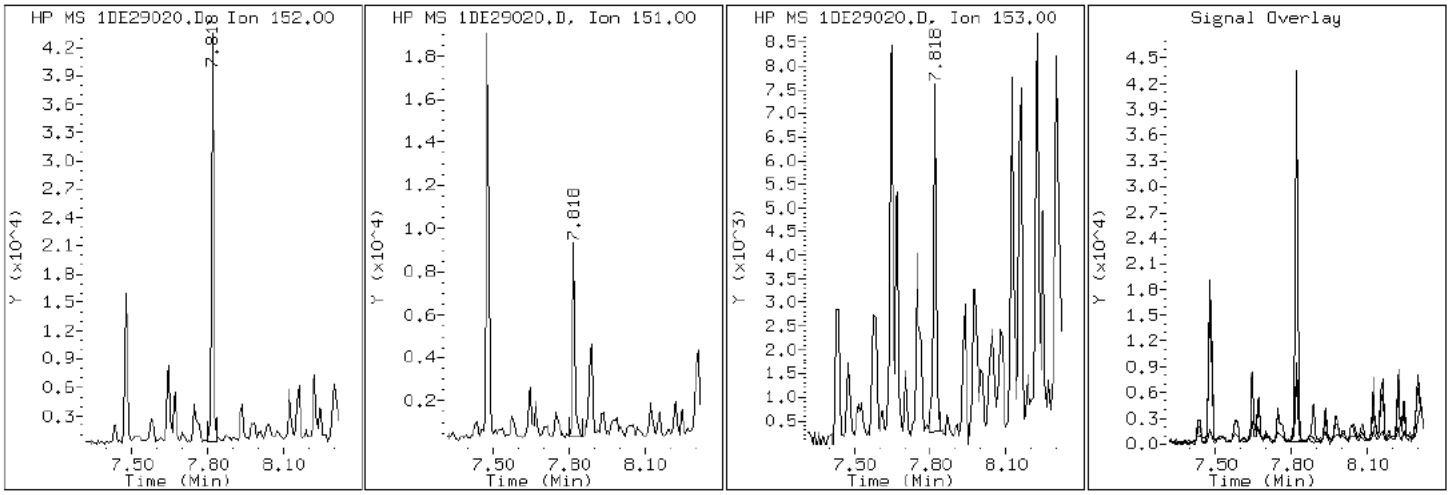
Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC

6 Acenaphthylene



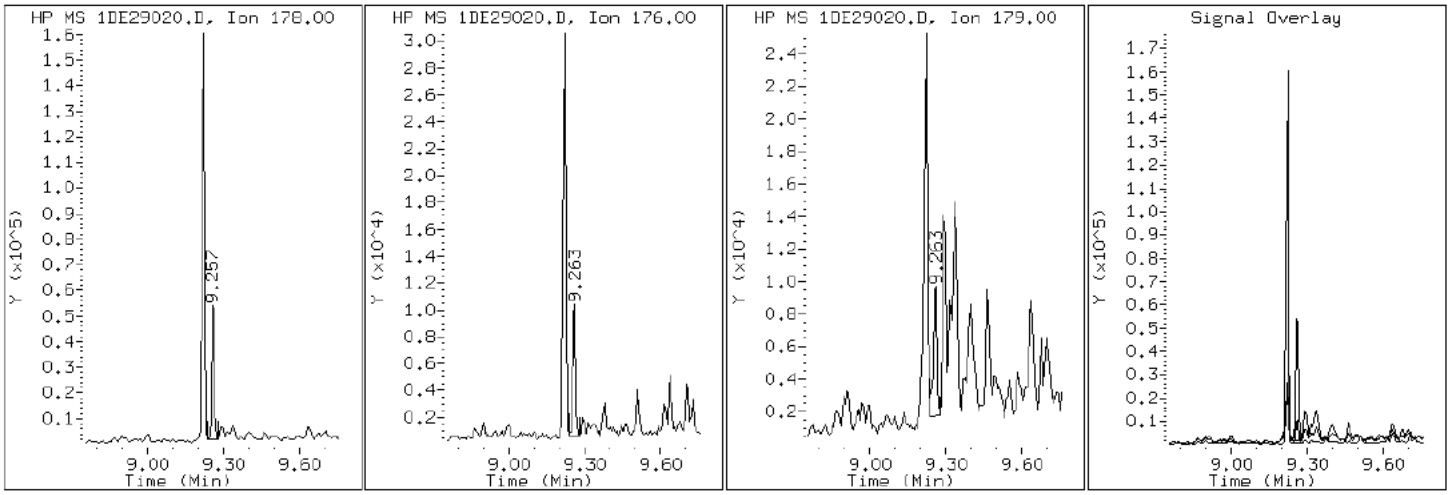
Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC

13 Anthracene



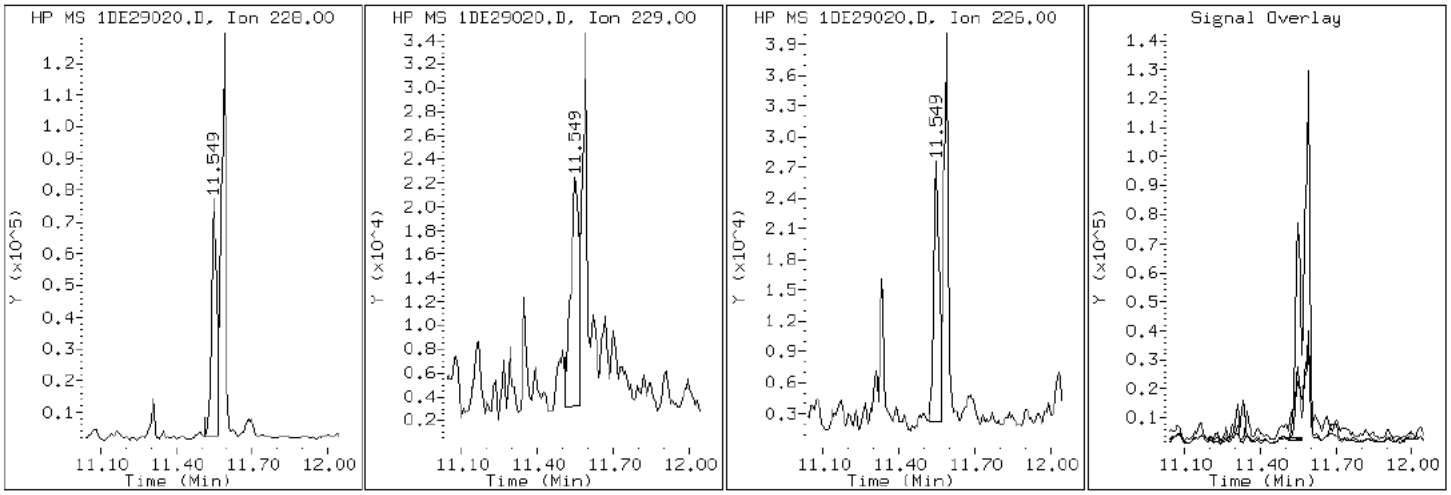
Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC

18 Benzo(a)anthracene



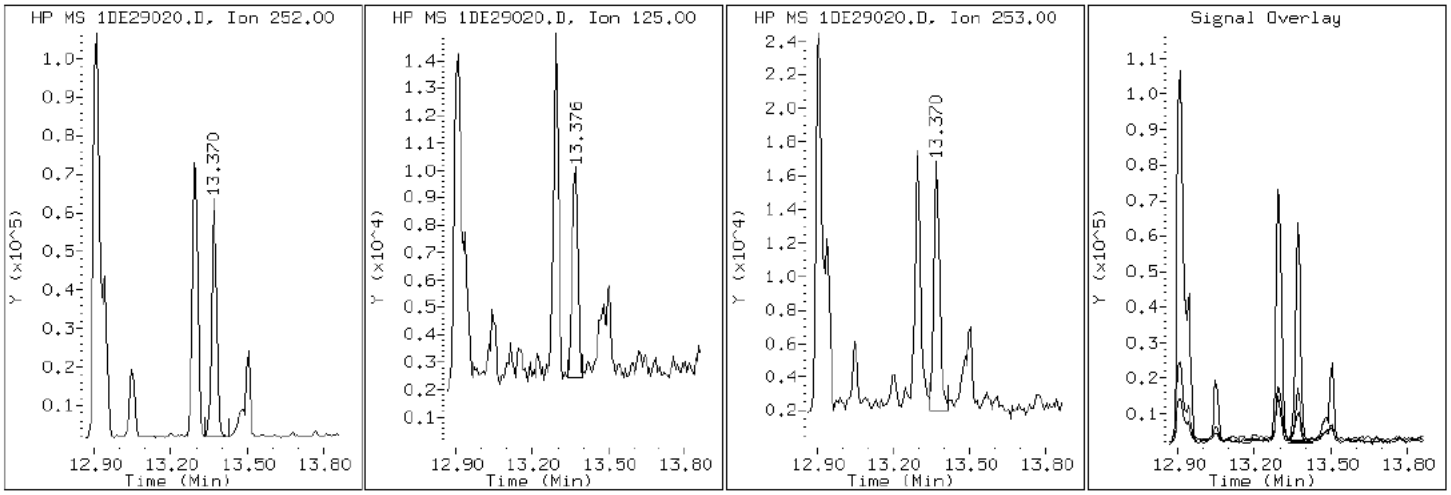
Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC

23 Benzo(a)pyrene



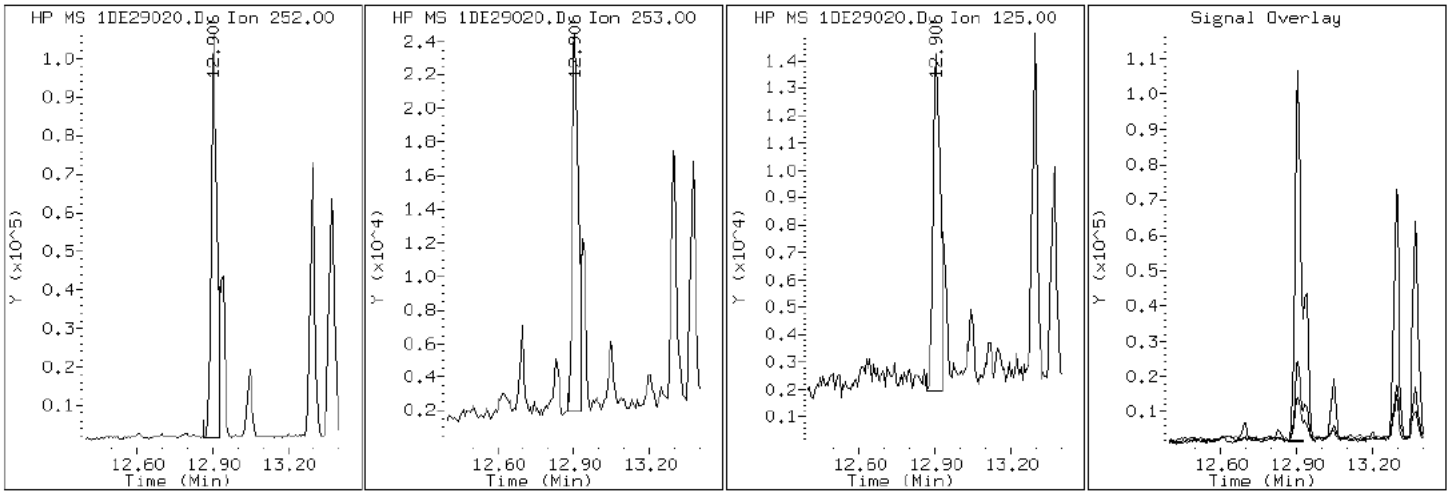
Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC

21 Benzo(b)fluoranthene



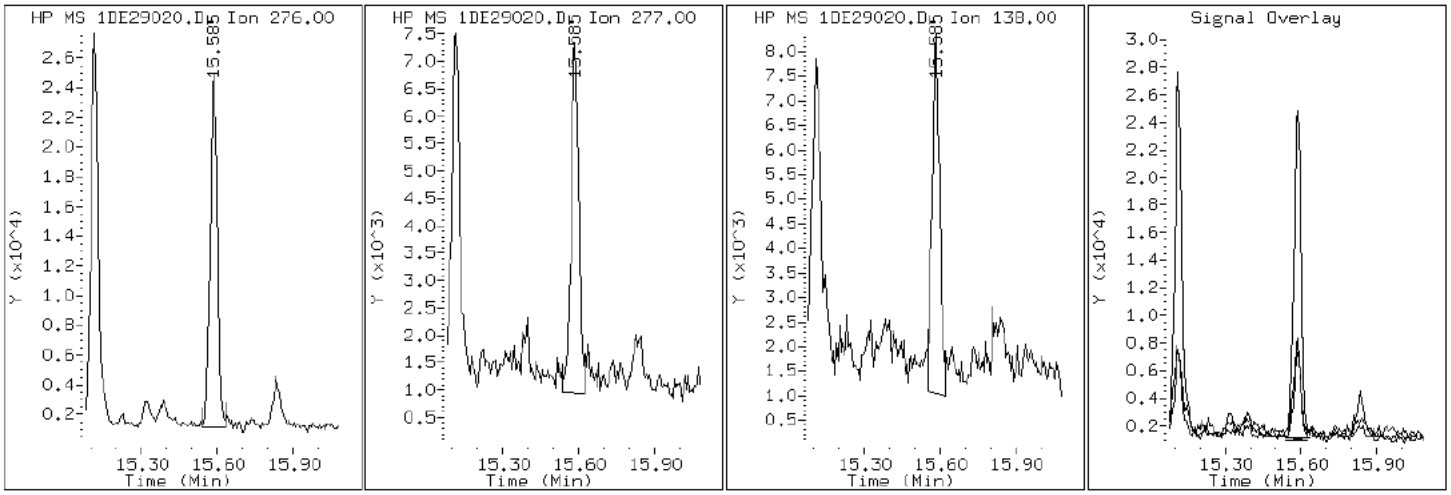
Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC

27 Benzo(g,h,i)perylene



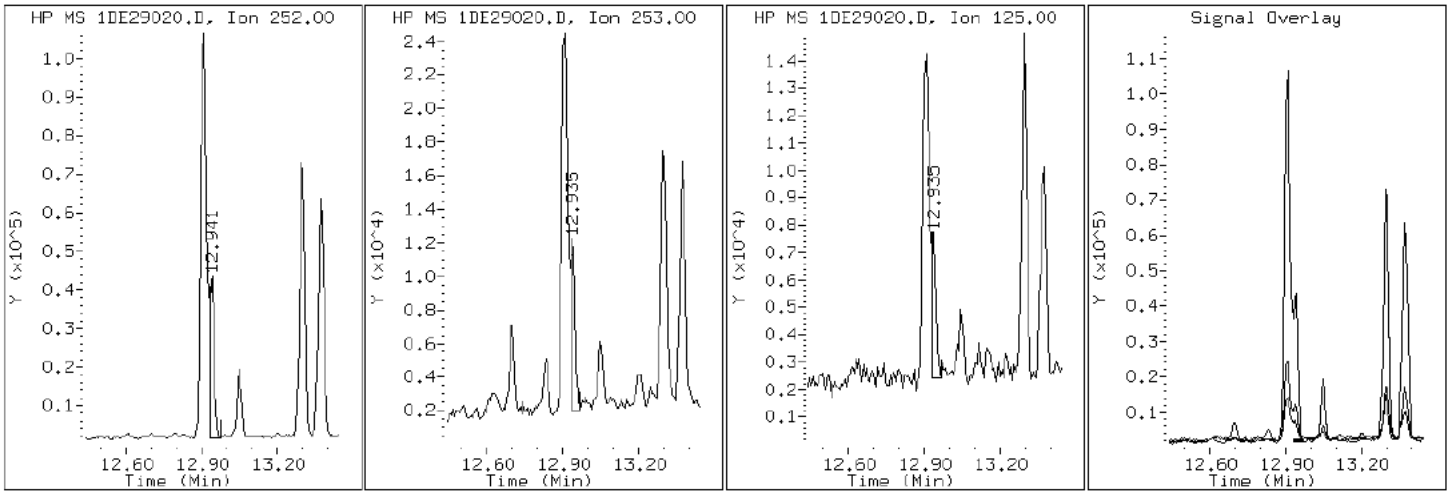
Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC

22 Benzo(k)fluoranthene



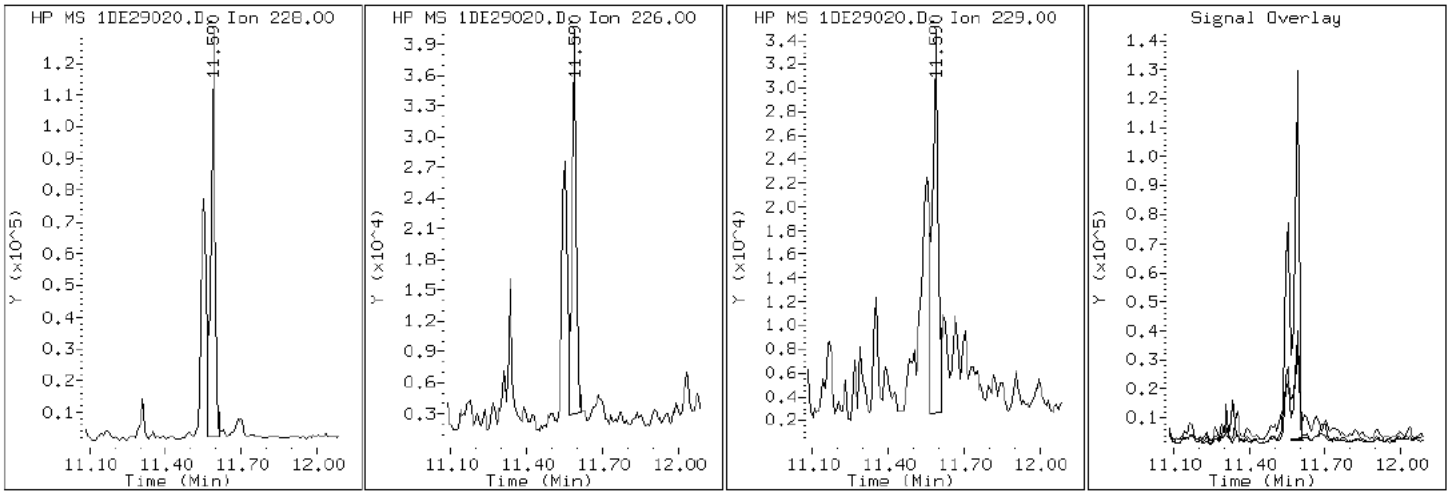
Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC

20 Chrysene



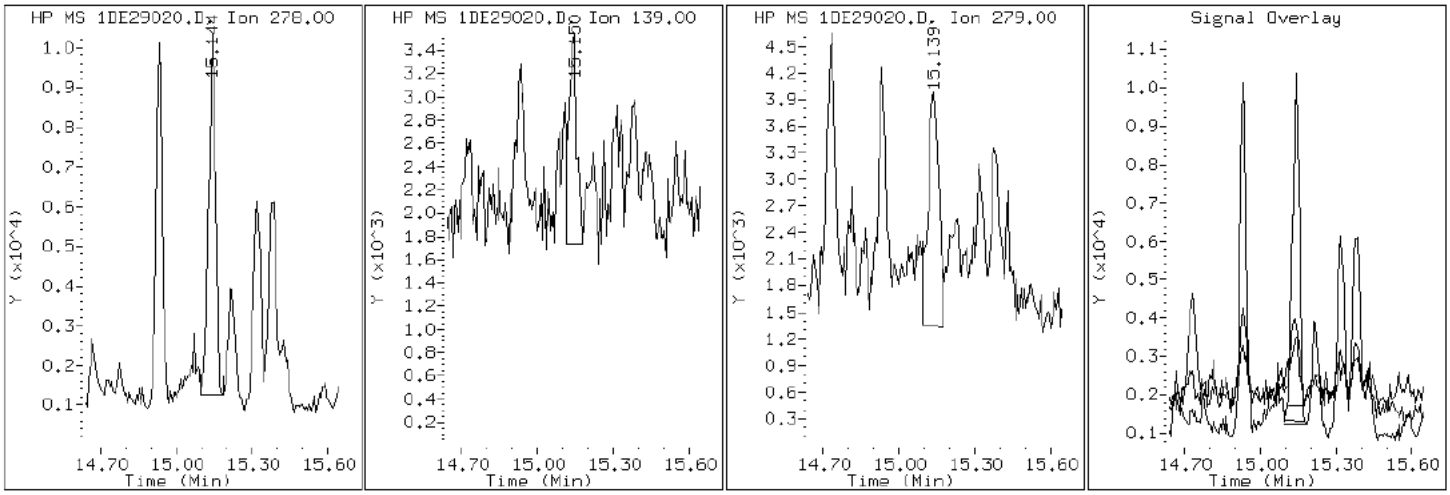
Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC

26 Dibenzo(a,h)anthracene



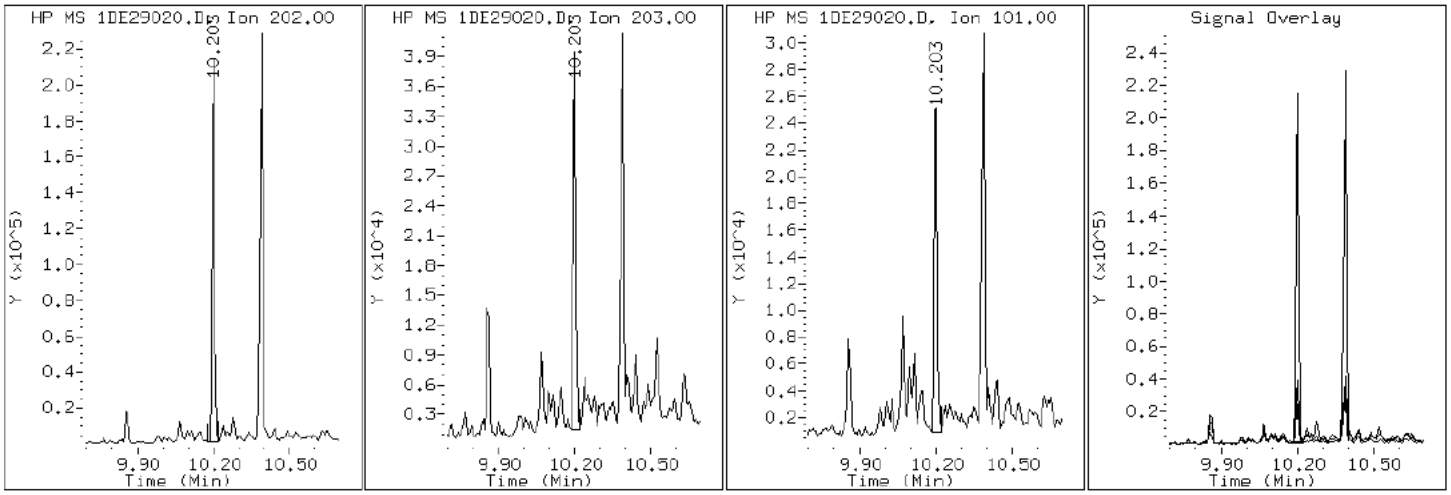
Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC

16 Fluoranthene



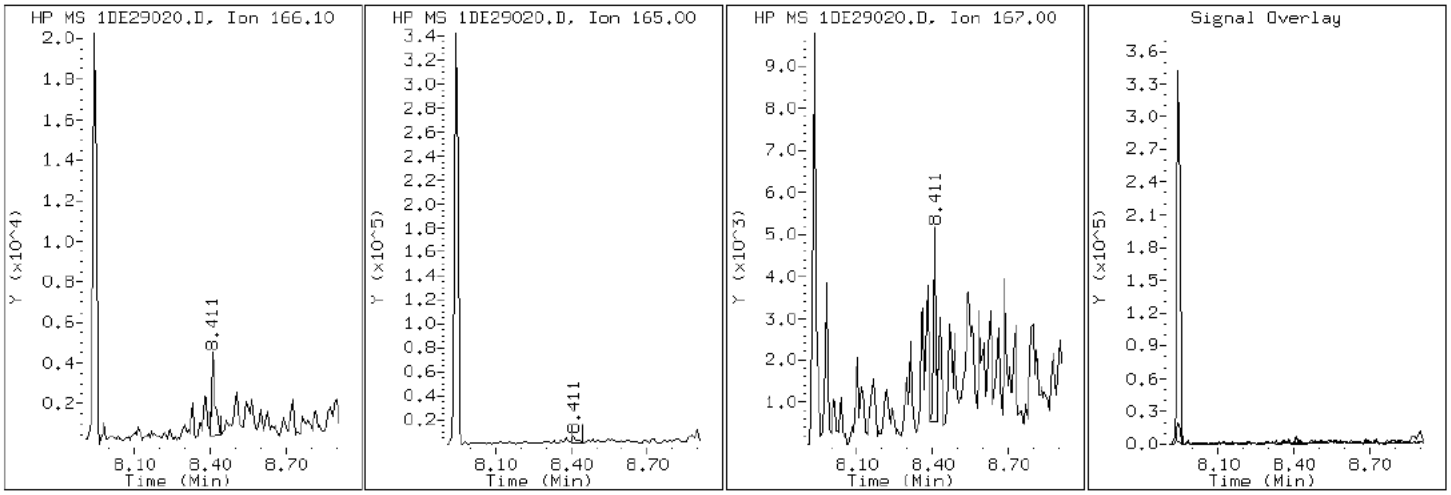
Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC

10 Fluorene



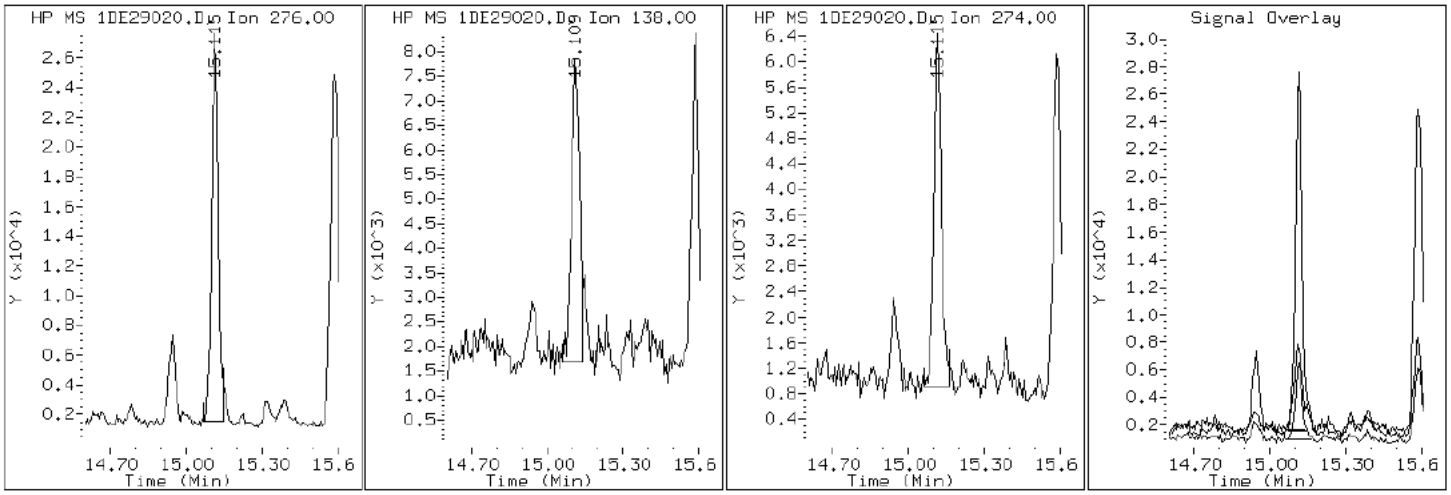
Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC

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



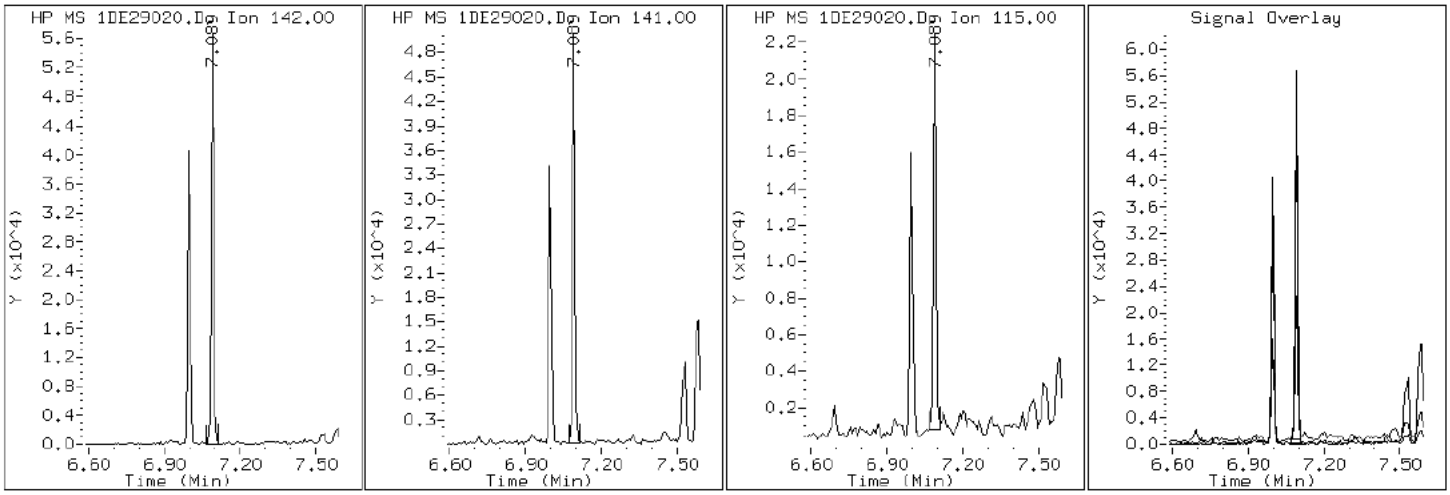
Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC

4 1-Methylnaphthalene



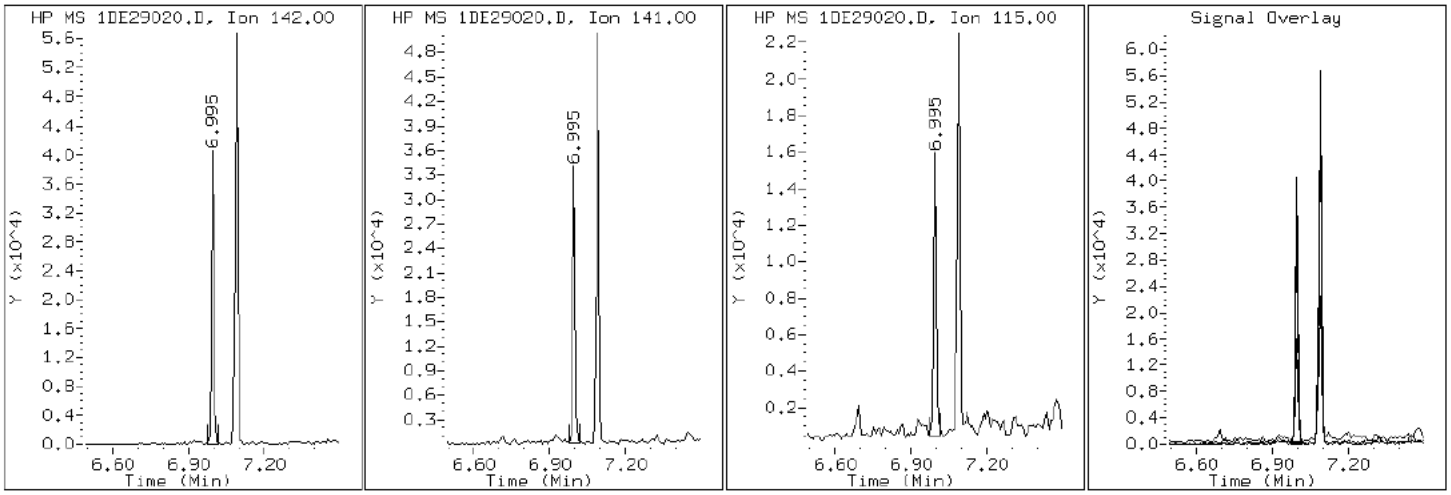
Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC

3 2-Methylnaphthalene



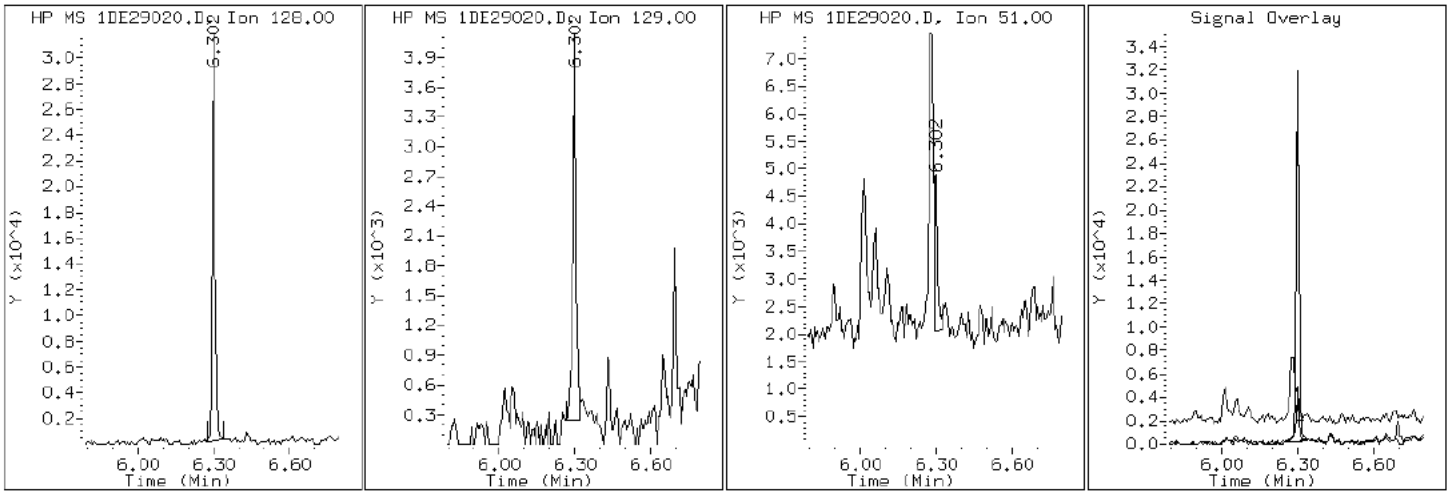
Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC

2 Naphthalene



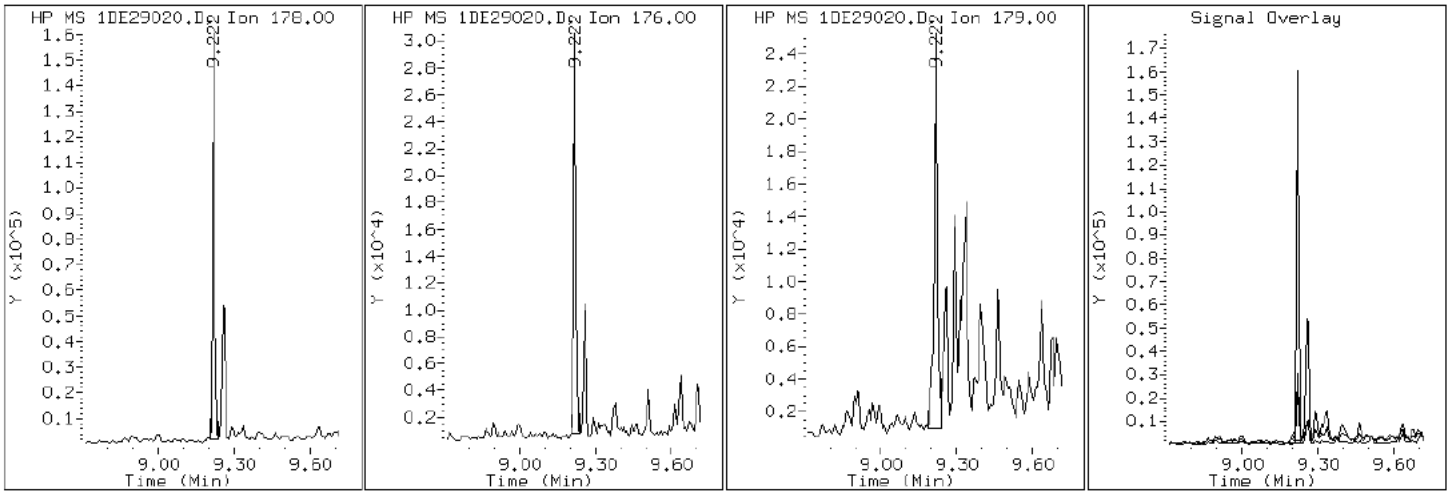
Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC

12 Phenanthrene



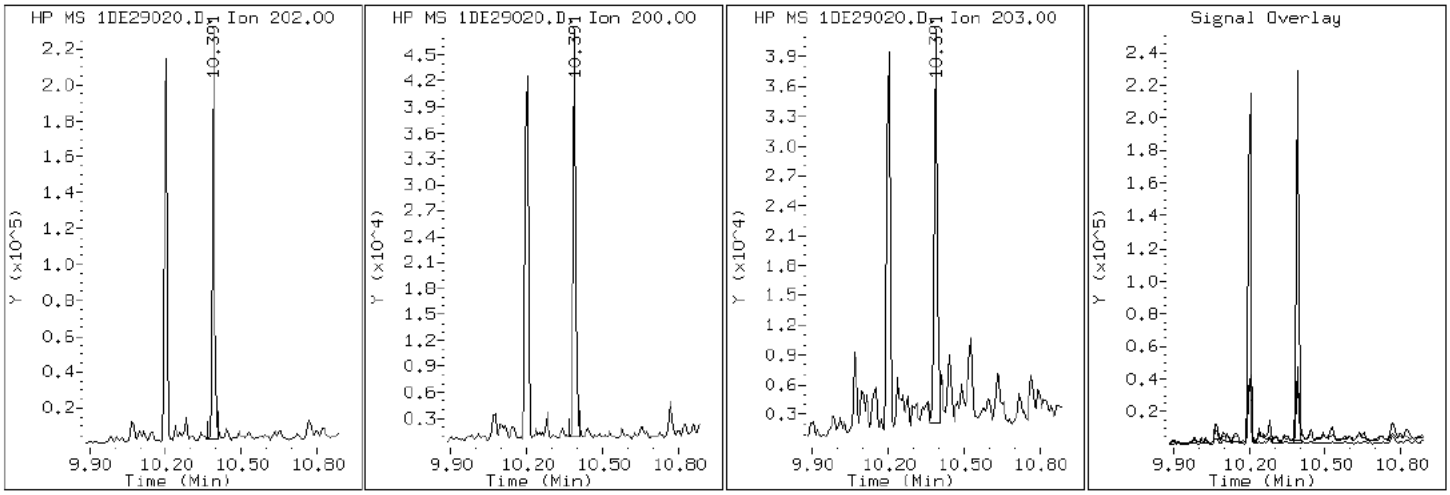
Data File: 1DE29020.D

Date: 29-MAY-2013 21:33

Client ID: CV0729B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-26-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DE29020.D
Inj. Date and Time: 29-MAY-2013 21:33
Instrument ID: BSMSD.i
Client ID: CV0729B-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

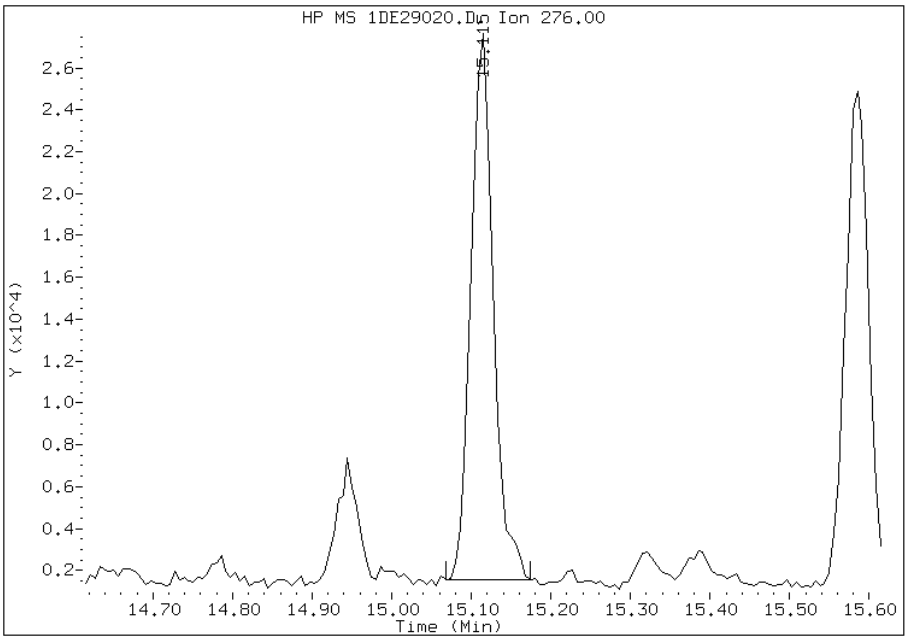
Processing Integration Results

RT: 15.11

Response: 50597

Amount: 1

Conc: 245



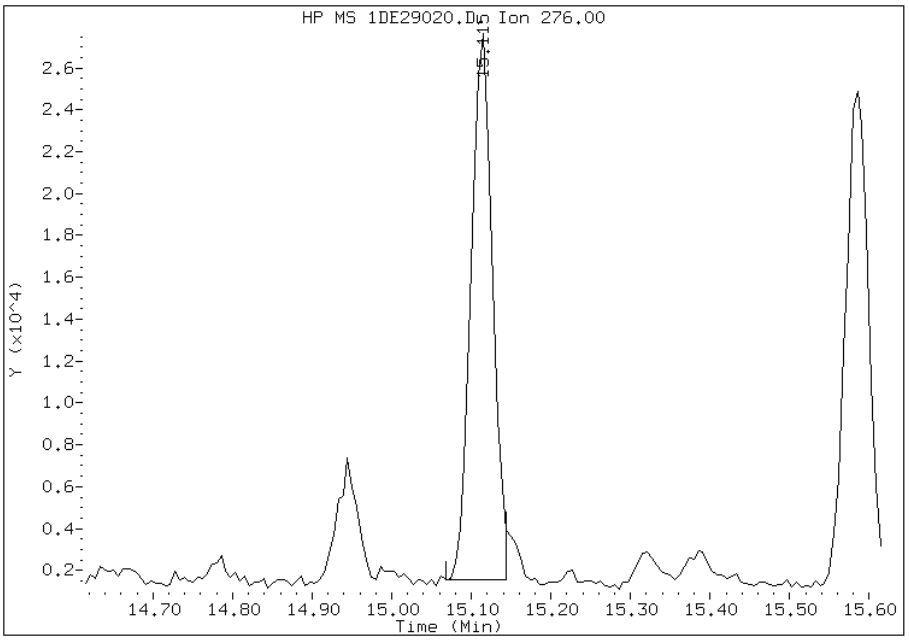
Manual Integration Results

RT: 15.11

Response: 48818

Amount: 1

Conc: 238



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 16:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV1016A-CS-SP | Lab Sample ID: 680-90622-27

Matrix: Solid | Lab File ID: 1DF03006.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 10:58

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 15.11(g) | Date Analyzed: 06/03/2013 12:21

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

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

% Moisture: 21.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138011 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1300	U	1300	250
208-96-8	Acenaphthylene	110	J	500	63
120-12-7	Anthracene	120		110	53
56-55-3	Benzo[a]anthracene	390		100	49
50-32-8	Benzo[a]pyrene	410		130	65
205-99-2	Benzo[b]fluoranthene	710		150	77
191-24-2	Benzo[g,h,i]perylene	420		250	55
207-08-9	Benzo[k]fluoranthene	260		100	45
218-01-9	Chrysene	520		110	57
53-70-3	Dibenz(a,h)anthracene	280		250	52
206-44-0	Fluoranthene	480		250	50
86-73-7	Fluorene	250	U	250	52
193-39-5	Indeno[1,2,3-cd]pyrene	460		250	89
90-12-0	1-Methylnaphthalene	200	J	500	55
91-57-6	2-Methylnaphthalene	200	J	500	89
91-20-3	Naphthalene	130	J	500	55
85-01-8	Phenanthrene	450	B	100	49
129-00-0	Pyrene	480		250	47

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03006.D
Lab Smp Id: 680-90622-A-27-A Client Smp ID: CV1016A-CS-SP
Inj Date : 03-JUN-2013 12:21
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90622-A-27-A
Misc Info : 680-90622-A-27-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\dFASTPAHi.m
Meth Date : 03-Jun-2013 11:25 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 6
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	10.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	21.166	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	6.275	6.278	(1.000)	3802420	40.0000	
*	7 Acenaphthene-d10	164	7.944	7.946	(1.000)	2103531	40.0000	
*	11 Phenanthrene-d10	188	9.201	9.204	(1.000)	3429953	40.0000	
$	15 o-Terphenyl	230	9.506	9.509	(1.033)	73818	1.46902	1200(R)
*	19 Chrysene-d12	240	11.563	11.566	(1.000)	3190622	40.0000	
*	24 Perylene-d12	264	13.466	13.469	(1.000)	3222896	40.0000	
	2 Naphthalene	128	6.293	6.295	(1.003)	15001	0.15998	130(Q)
	3 2-Methylnaphthalene	142	6.992	6.995	(1.114)	14188	0.23764	200
	4 1-Methylnaphthalene	142	7.086	7.089	(1.129)	14694	0.23906	200
	5 1,1'-Biphenyl	154	7.426	7.429	(0.935)	2363	0.03325	28
	6 Acenaphthylene	152	7.814	7.817	(0.984)	11561	0.13256	110
	9 Dibenzofuran	168	8.114	8.117	(1.021)	7014	0.09194	77
	10 Fluorene	166	8.408	8.411	(1.058)	2219	0.03545	30(Q)
	12 Phenanthrene	178	9.219	9.221	(1.002)	49545	0.53335	450

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.254	9.263	(1.006)	13207	0.14653	120
16 Fluoranthene	202	10.200	10.203	(1.109)	54665	0.57521	480
17 Pyrene	202	10.388	10.391	(0.898)	52987	0.56723	480
18 Benzo(a)anthracene	228	11.545	11.548	(0.998)	44467	0.46960	390
20 Chrysene	228	11.586	11.595	(1.002)	52578	0.61663	520
21 Benzo(b)fluoranthene	252	12.897	12.911	(0.958)	68313	0.84608	710
22 Benzo(k)fluoranthene	252	12.926	12.946	(0.960)	25765	0.30473	260
23 Benzo(a)pyrene	252	13.361	13.375	(0.992)	31436	0.49175	410
25 Indeno(1,2,3-cd)pyrene	276	15.094	15.120	(1.121)	33056	0.54263	460(M)
26 Dibenzo(a,h)anthracene	278	15.129	15.162	(1.123)	19805	0.32909	280
27 Benzo(g,h,i)perylene	276	15.564	15.602	(1.156)	36255	0.49542	420(MH)

QC Flag Legend

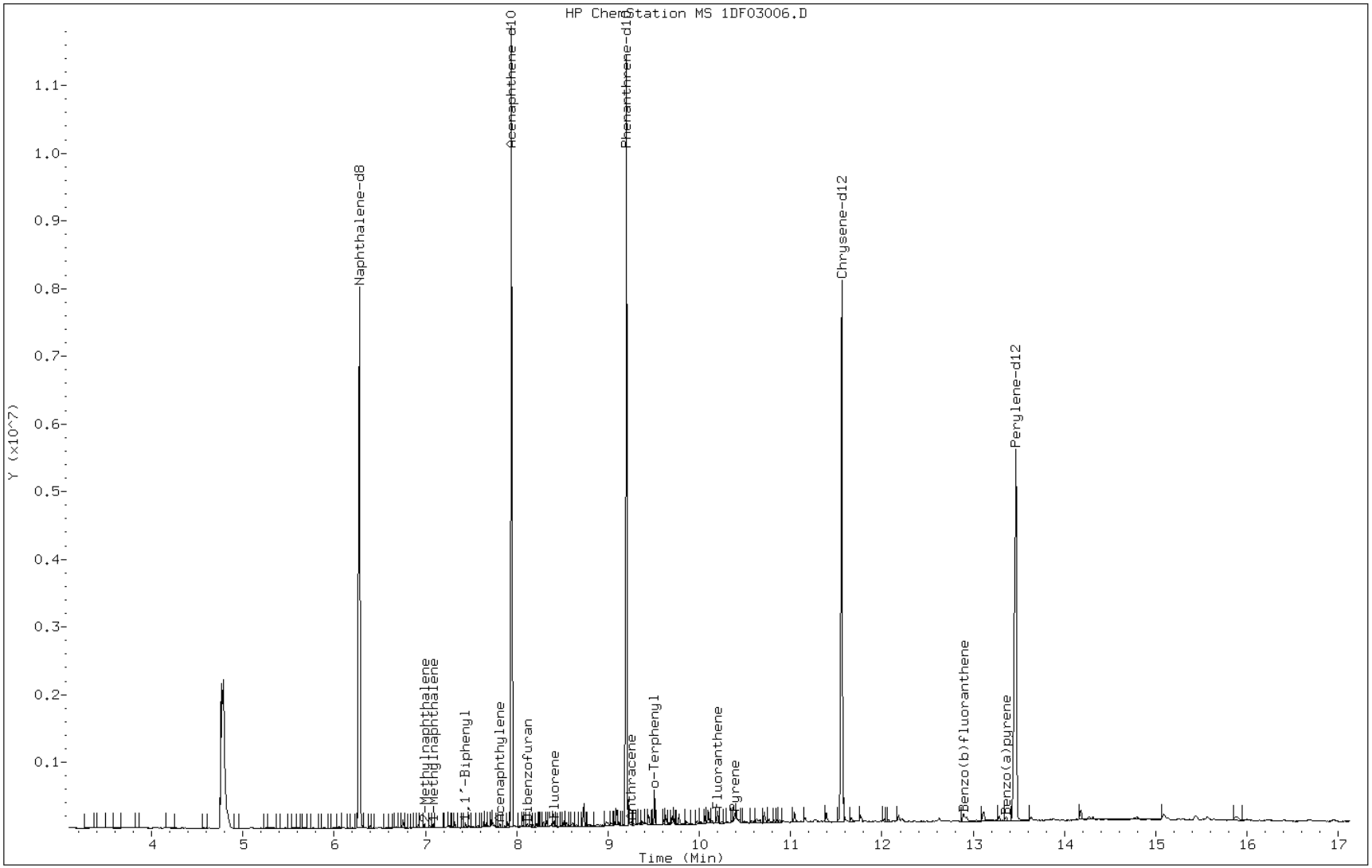
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DF03006.D

Date: 03-JUN-2013 12:21

Client ID: CV1016A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-27-A Operator: SCC



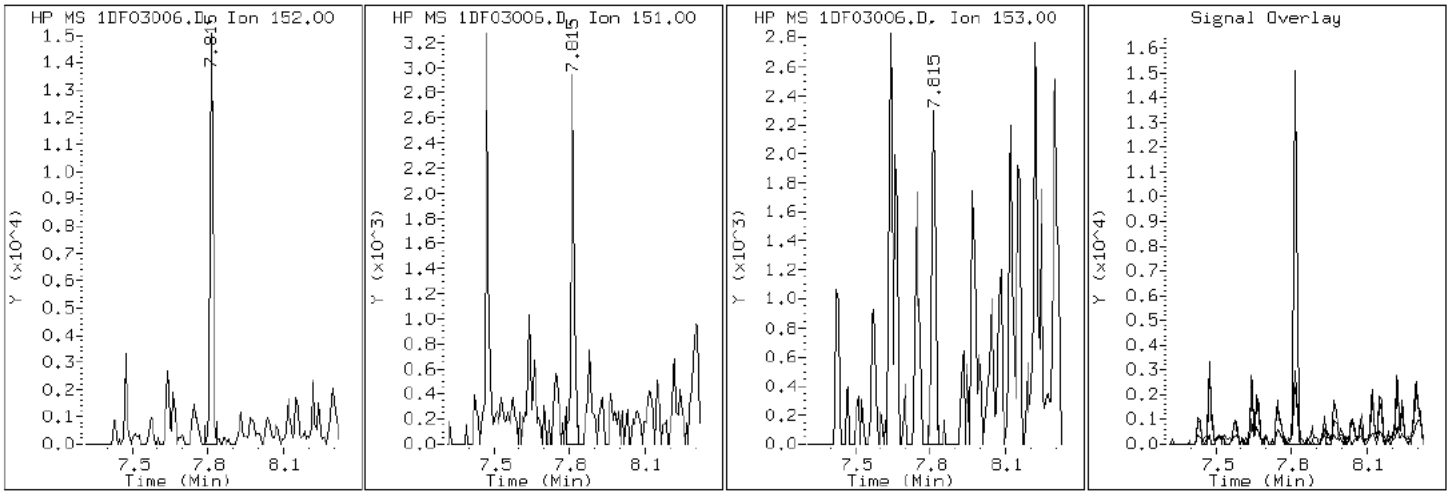
Data File: 1DF03006.D

Date: 03-JUN-2013 12:21

Client ID: CV1016A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-27-A Operator: SCC

6 Acenaphthylene



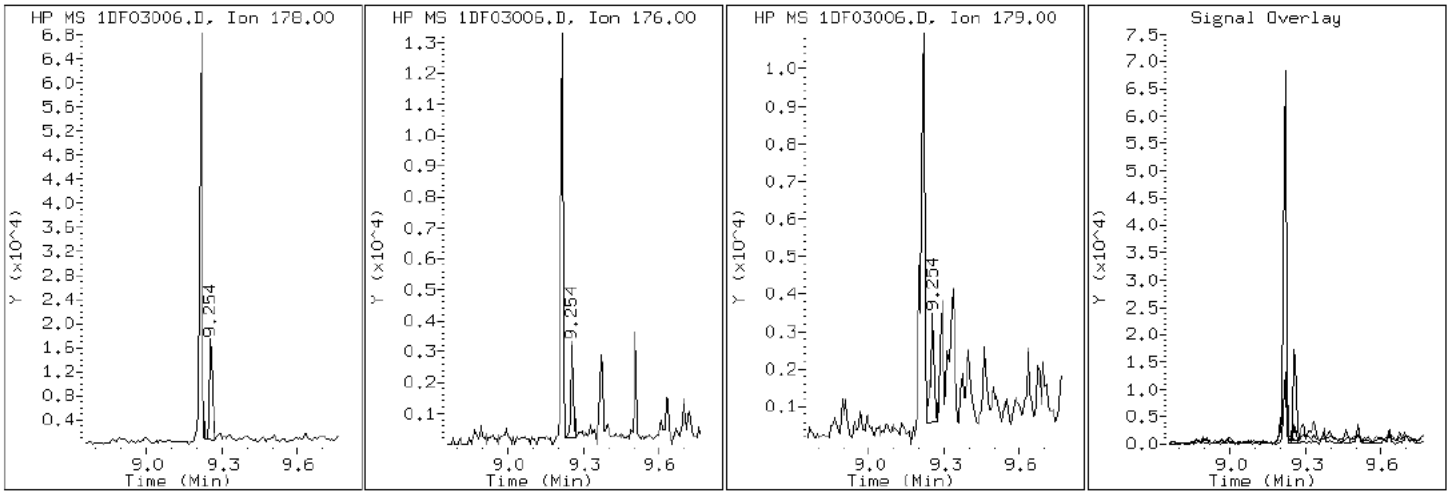
Data File: 1DF03006.D

Date: 03-JUN-2013 12:21

Client ID: CV1016A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-27-A Operator: SCC

13 Anthracene



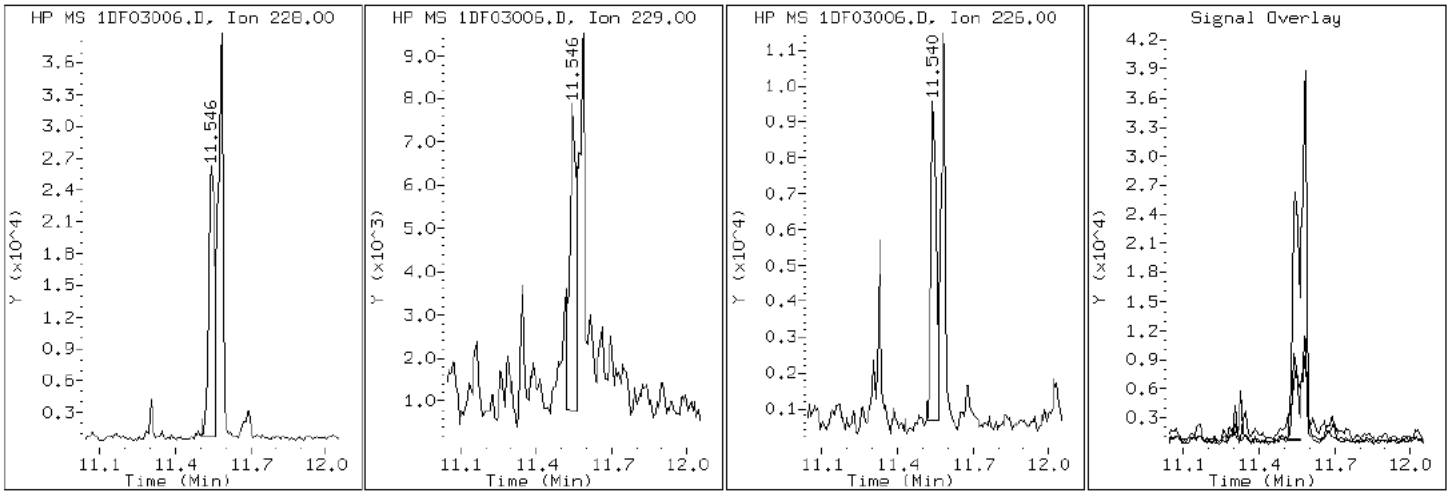
Data File: 1DF03006.D

Date: 03-JUN-2013 12:21

Client ID: CV1016A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-27-A Operator: SCC

18 Benzo(a)anthracene



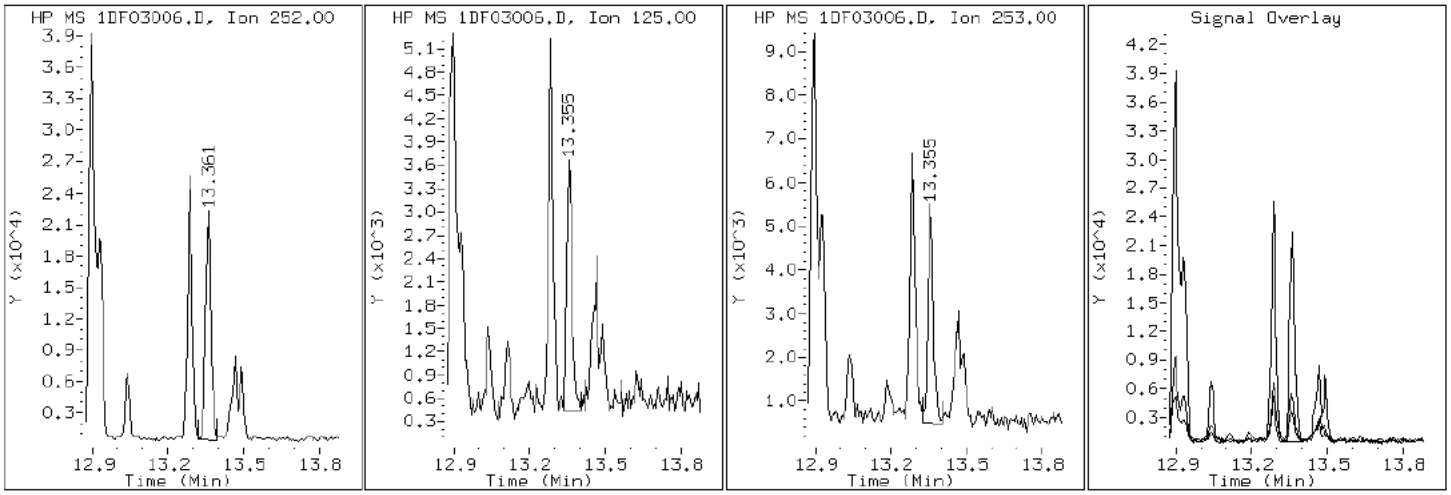
Data File: 1DF03006.D

Date: 03-JUN-2013 12:21

Client ID: CV1016A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-27-A Operator: SCC

23 Benzo(a)pyrene



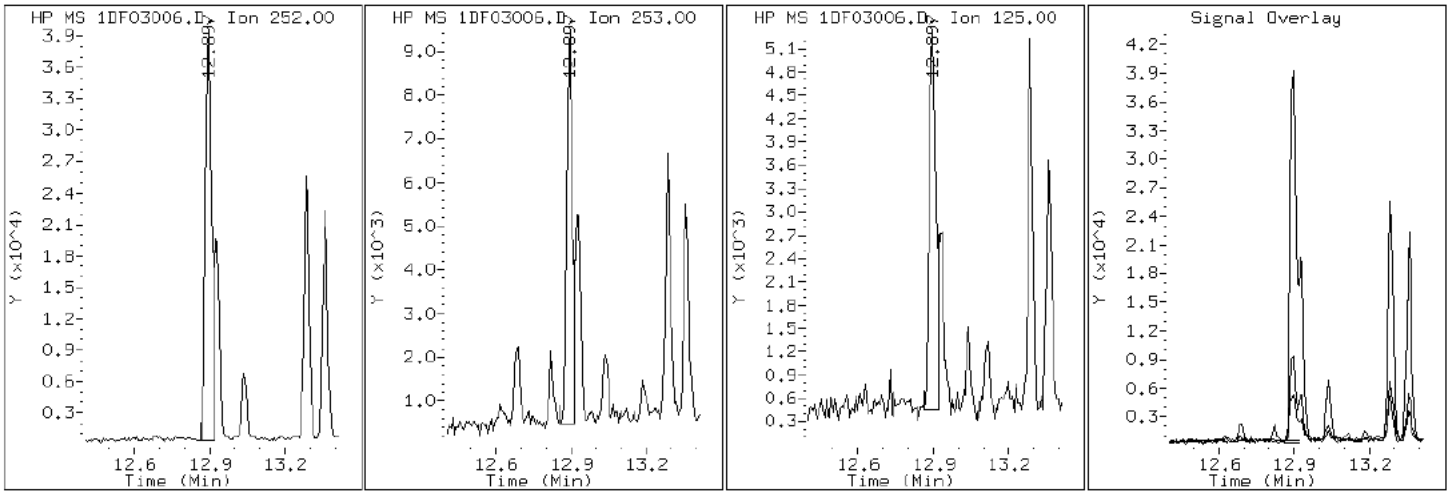
Data File: 1DF03006.D

Date: 03-JUN-2013 12:21

Client ID: CV1016A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-27-A Operator: SCC

21 Benzo(b)fluoranthene



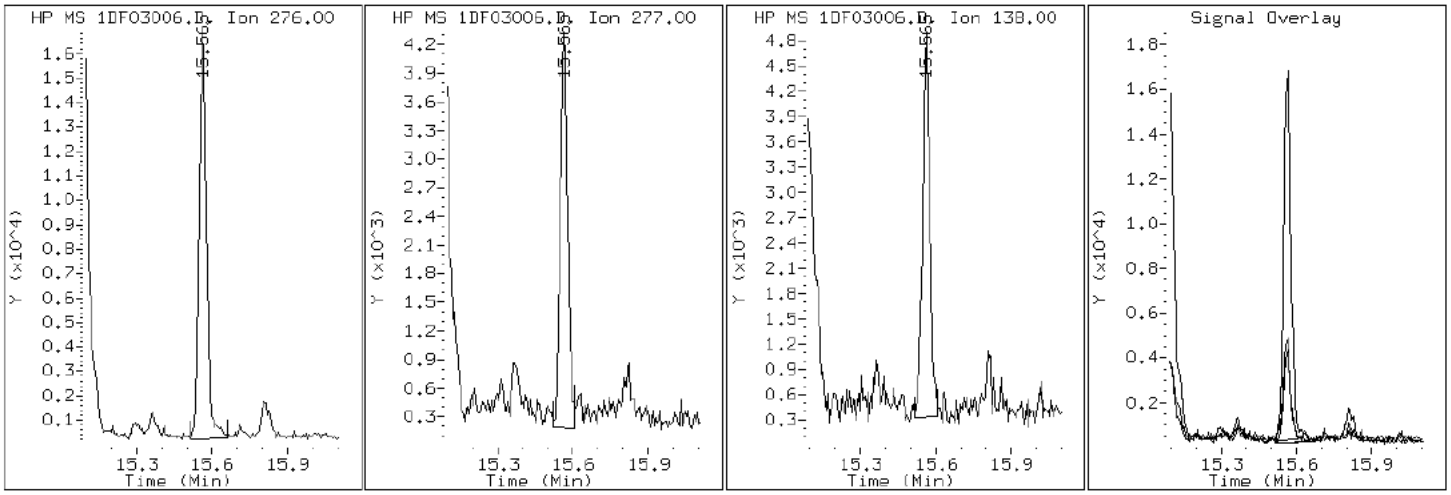
Data File: 1DF03006.D

Date: 03-JUN-2013 12:21

Client ID: CV1016A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-27-A Operator: SCC

27 Benzo(g,h,i)perylene



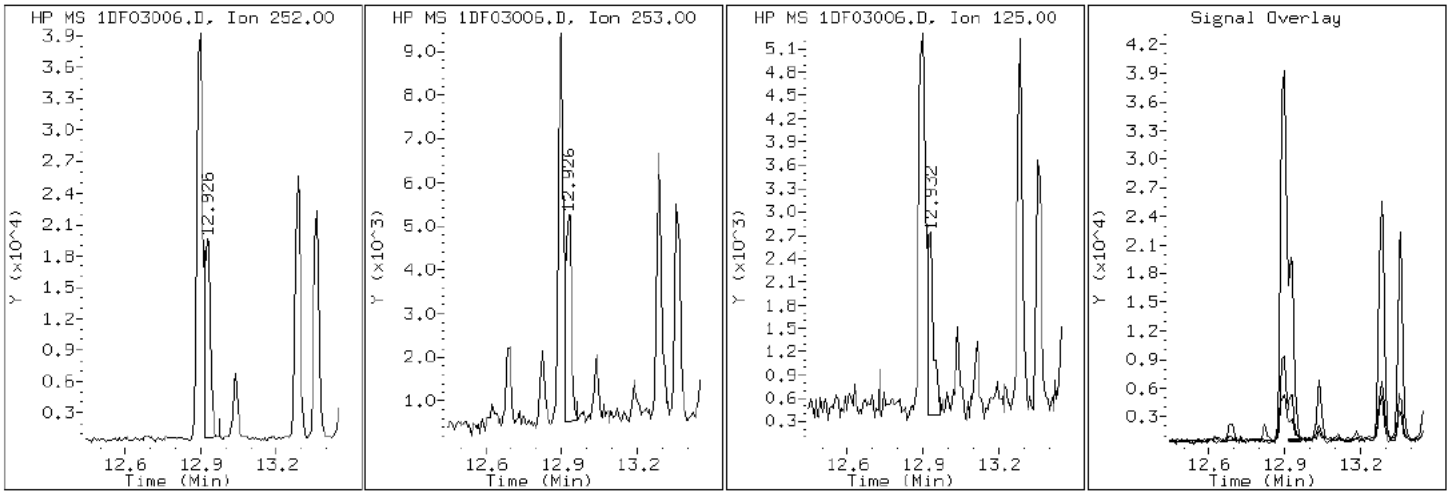
Data File: 1DF03006.D

Date: 03-JUN-2013 12:21

Client ID: CV1016A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-27-A Operator: SCC

22 Benzo(k)fluoranthene



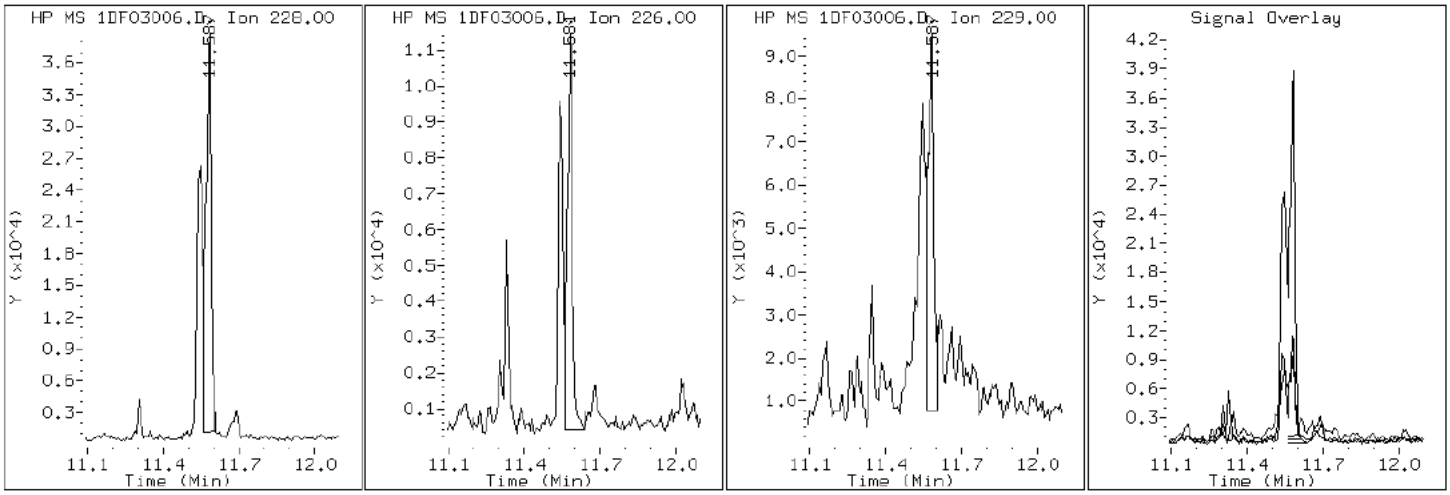
Data File: 1DF03006.D

Date: 03-JUN-2013 12:21

Client ID: CV1016A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-27-A Operator: SCC

20 Chrysene



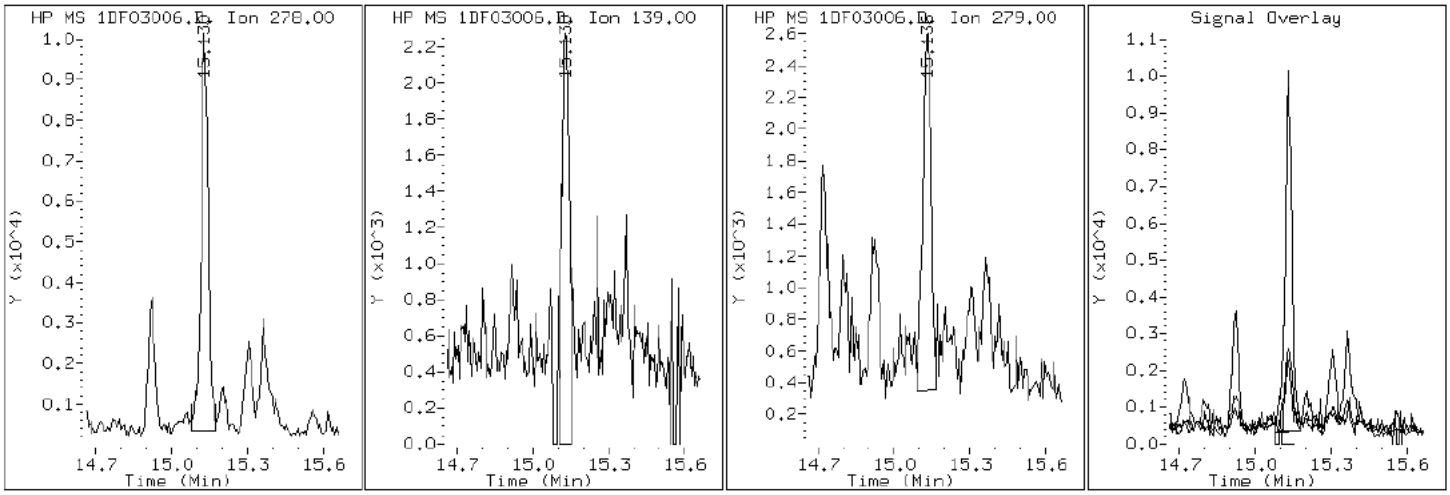
Data File: 1DF03006.D

Date: 03-JUN-2013 12:21

Client ID: CV1016A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-27-A Operator: SCC

26 Dibenzo(a,h)anthracene



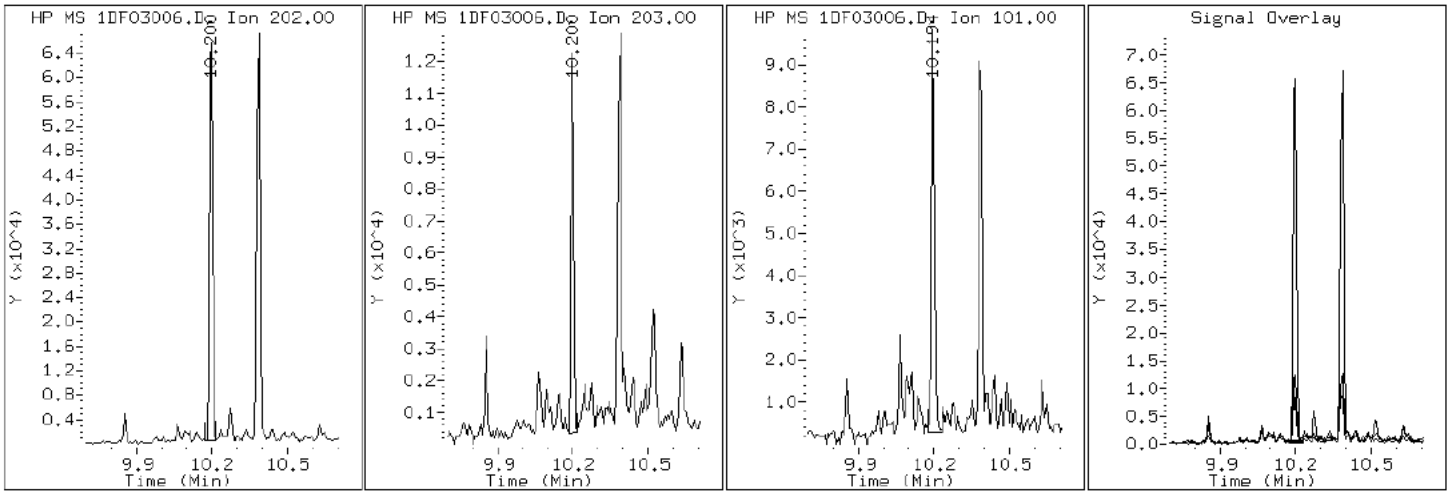
Data File: 1DF03006.D

Date: 03-JUN-2013 12:21

Client ID: CV1016A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-27-A Operator: SCC

16 Fluoranthene



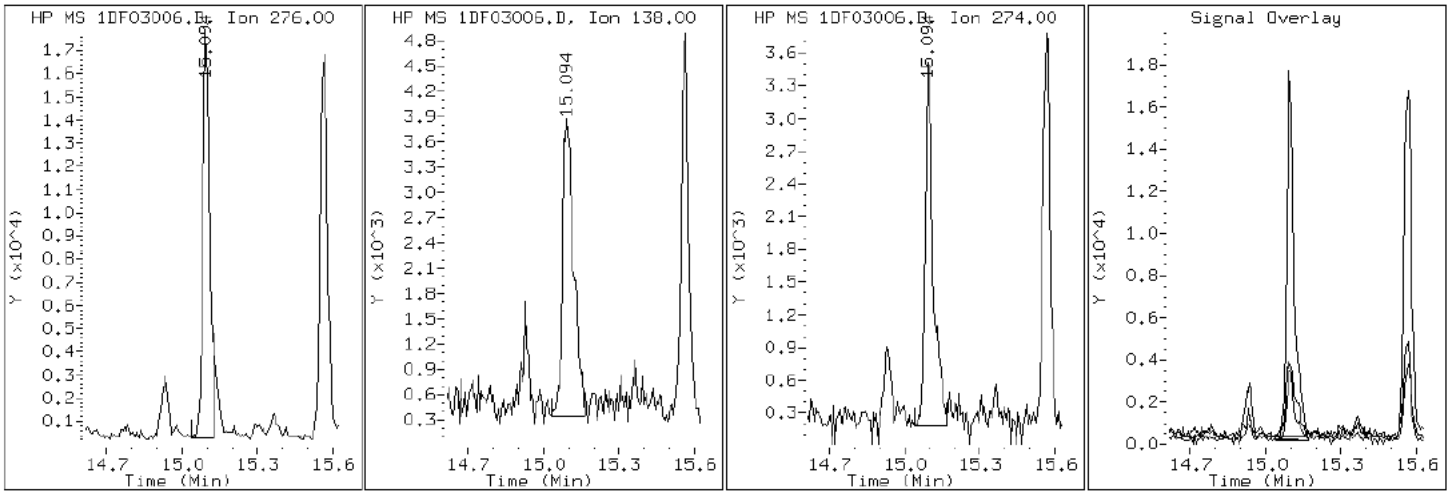
Data File: 1DF03006.D

Date: 03-JUN-2013 12:21

Client ID: CV1016A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-27-A Operator: SCC

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



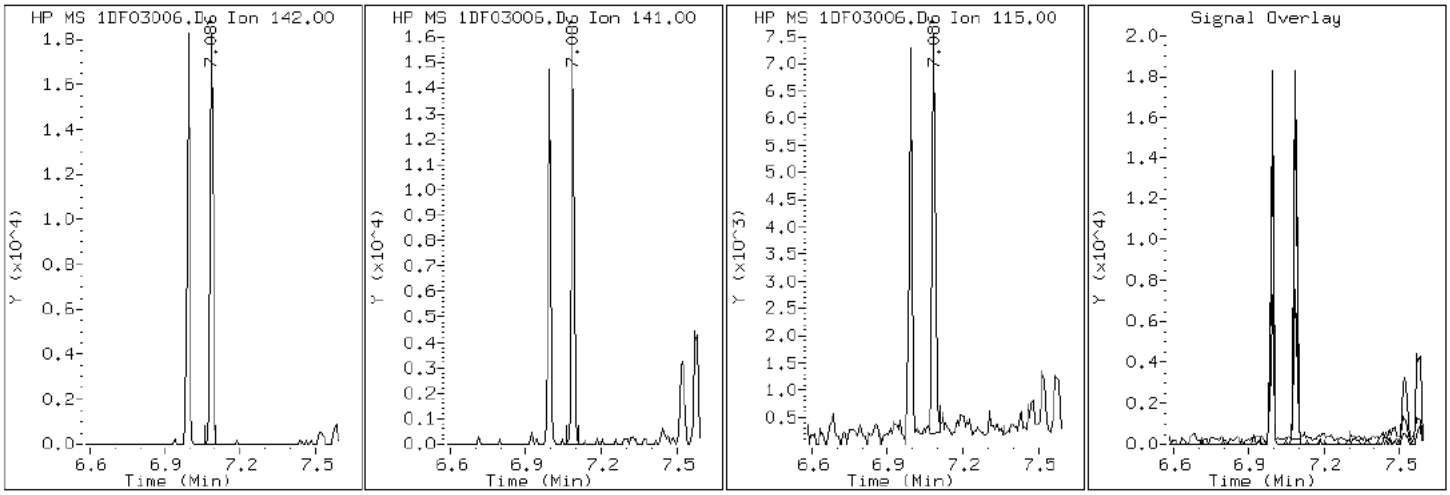
Data File: 1DF03006.D

Date: 03-JUN-2013 12:21

Client ID: CV1016A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-27-A Operator: SCC

4 1-Methylnaphthalene



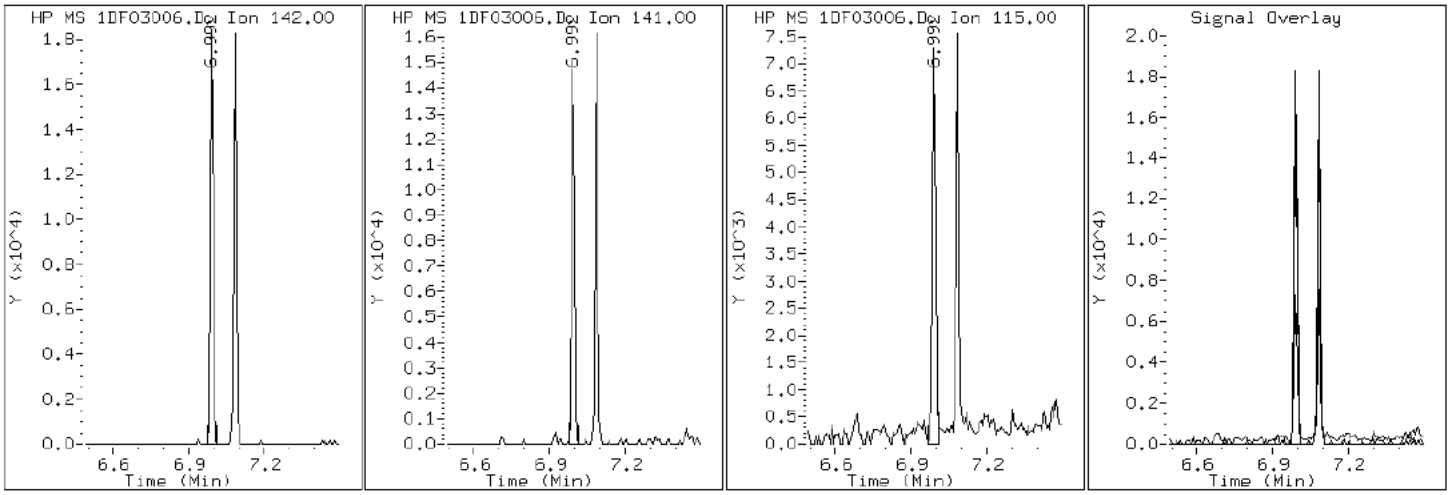
Data File: 1DF03006.D

Date: 03-JUN-2013 12:21

Client ID: CV1016A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-27-A Operator: SCC

3 2-Methylnaphthalene



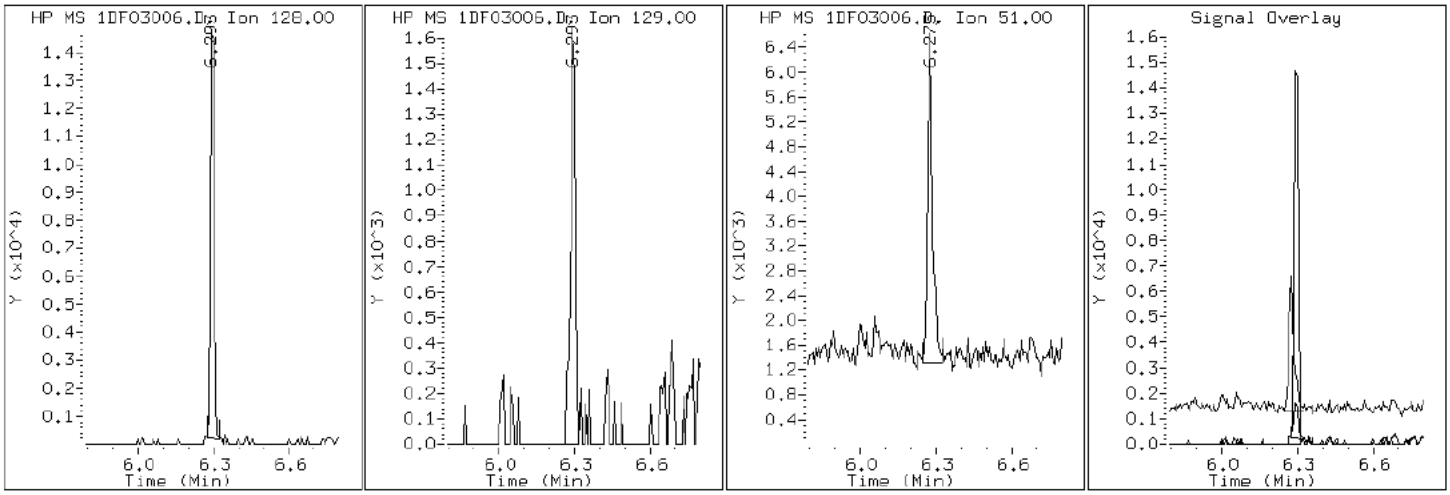
Data File: 1DF03006.D

Date: 03-JUN-2013 12:21

Client ID: CV1016A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-27-A Operator: SCC

2 Naphthalene



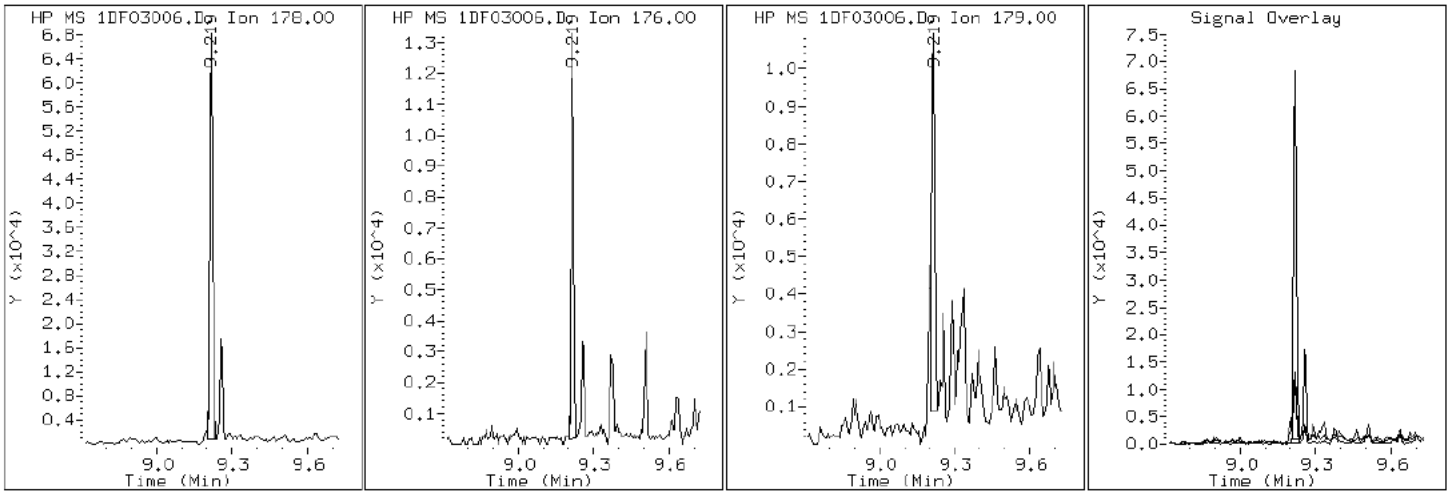
Data File: 1DF03006.D

Date: 03-JUN-2013 12:21

Client ID: CV1016A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-27-A Operator: SCC

12 Phenanthrene



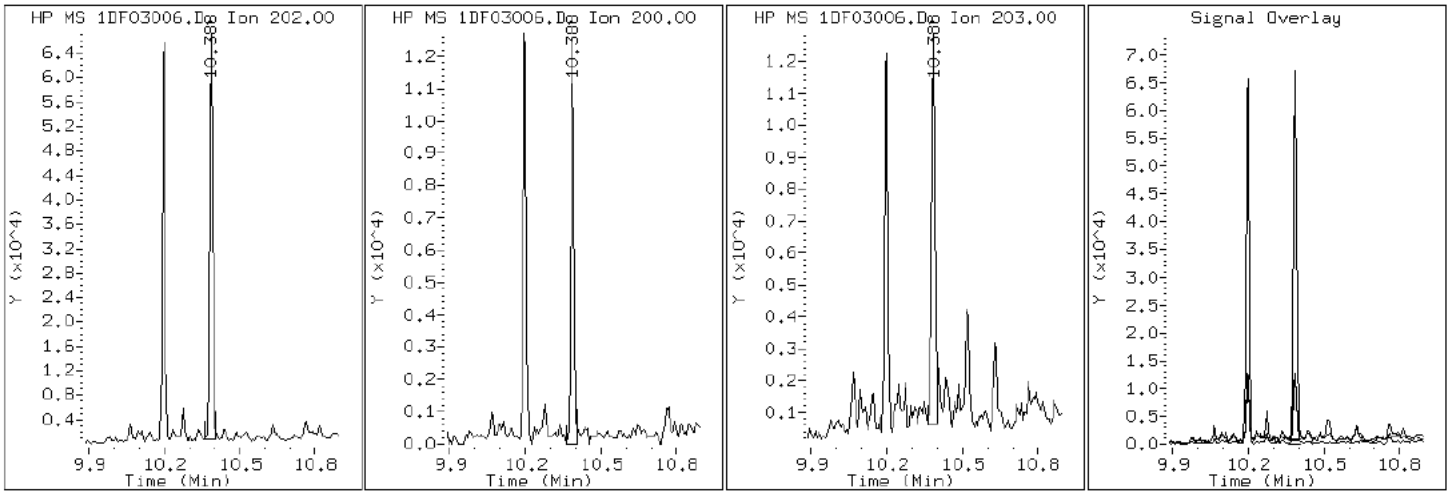
Data File: 1DF03006.D

Date: 03-JUN-2013 12:21

Client ID: CV1016A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-27-A Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF03006.D
Inj. Date and Time: 03-JUN-2013 12:21
Instrument ID: BSMSD.i
Client ID: CV1016A-CS-SP
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/03/2013

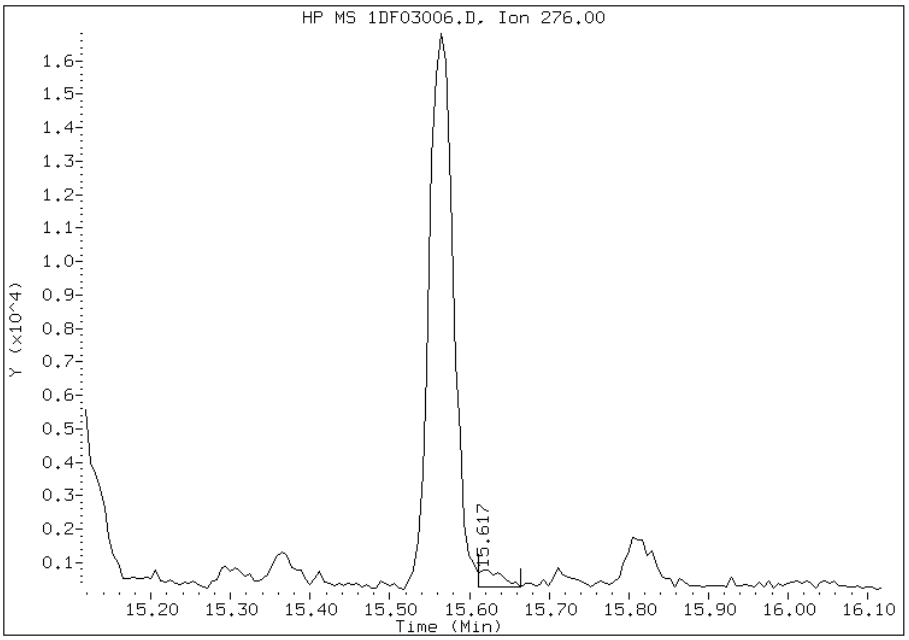
Processing Integration Results

RT: 15.62

Response: 1072

Amount: 0

Conc: 12



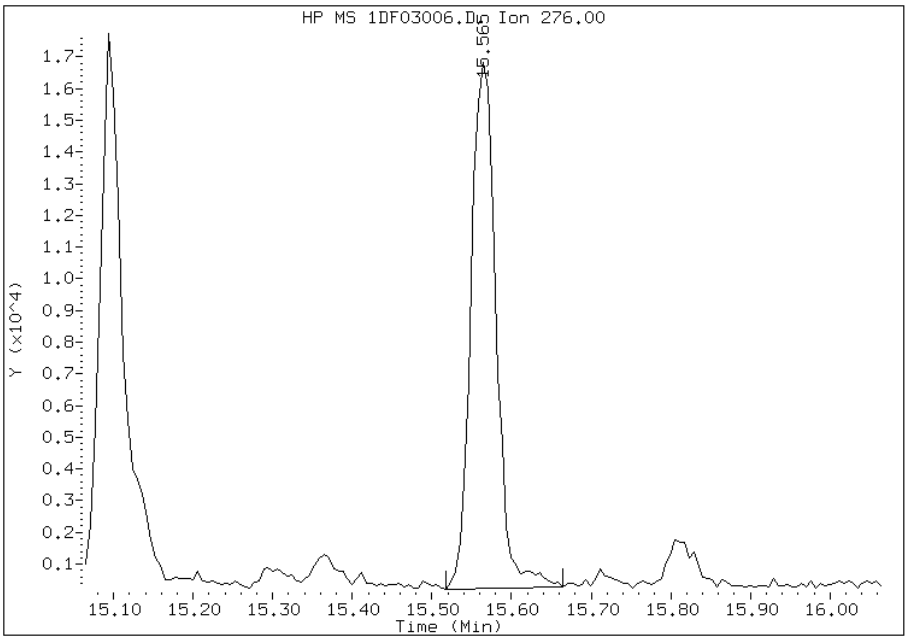
Manual Integration Results

RT: 15.56

Response: 36255

Amount: 0

Conc: 416



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 15:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DF03006.D
Inj. Date and Time: 03-JUN-2013 12:21
Instrument ID: BSMSD.i
Client ID: CV1016A-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

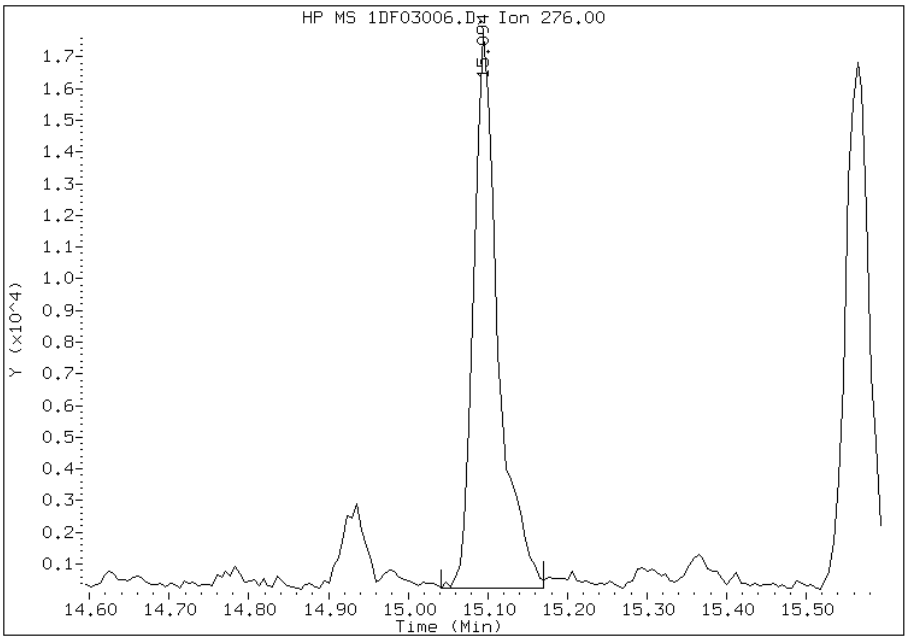
Processing Integration Results

RT: 15.09

Response: 37454

Amount: 1

Conc: 500



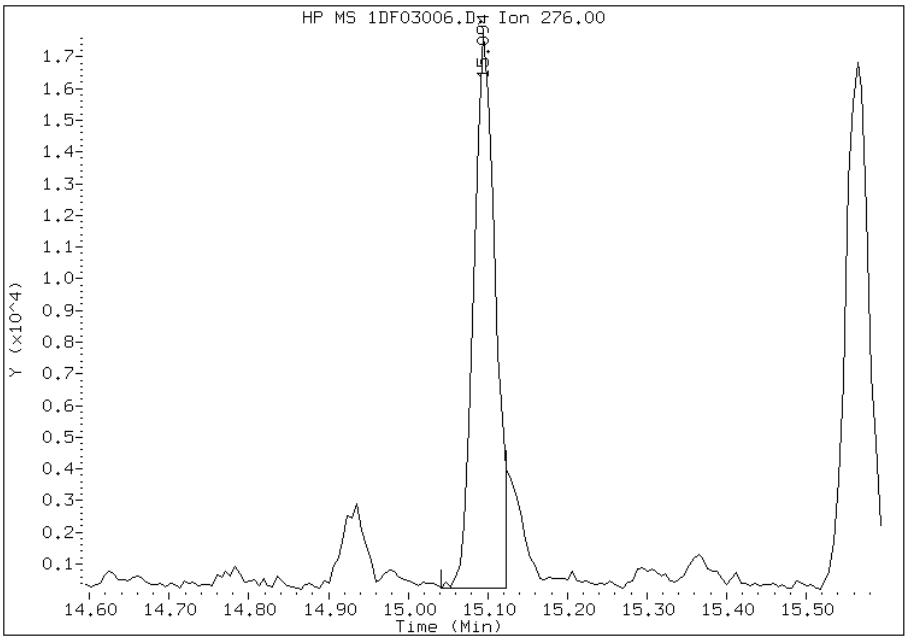
Manual Integration Results

RT: 15.09

Response: 33056

Amount: 1

Conc: 456



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 15:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: FM0217A-CS | Lab Sample ID: 680-90622-28

Matrix: Solid | Lab File ID: 1DE29022.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 15:00

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 14.99(g) | Date Analyzed: 05/29/2013 22:18

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

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

% Moisture: 32.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137911 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	590	U	590	120
208-96-8	Acenaphthylene	240	U	240	30
120-12-7	Anthracene	27	J	50	25
56-55-3	Benzo[a]anthracene	110		48	23
50-32-8	Benzo[a]pyrene	120		62	31
205-99-2	Benzo[b]fluoranthene	150		73	36
191-24-2	Benzo[g,h,i]perylene	60	J	120	26
207-08-9	Benzo[k]fluoranthene	52		48	21
218-01-9	Chrysene	160		53	27
53-70-3	Dibenz(a,h)anthracene	48	J	120	24
206-44-0	Fluoranthene	160		120	24
86-73-7	Fluorene	120	U	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	110	J	120	42
90-12-0	1-Methylnaphthalene	91	J	240	26
91-57-6	2-Methylnaphthalene	170	J	240	42
91-20-3	Naphthalene	140	J	240	26
85-01-8	Phenanthrene	150	B	48	23
129-00-0	Pyrene	130		120	22

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	68		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\1DE29022.D
Lab Smp Id: 680-90622-A-28-A Client Smp ID: FM0217A-CS
Inj Date : 29-MAY-2013 22:18
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90622-a-28-a
Misc Info : 680-90622-A-28-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\dFASTPAHi.m
Meth Date : 29-May-2013 17:42 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 22
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	32.658	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	6.283	6.277	(1.000)	3929014	40.0000	
*	7 Acenaphthene-d10	164	7.946	7.945	(1.000)	2166968	40.0000	
*	11 Phenanthrene-d10	188	9.203	9.197	(1.000)	3449167	40.0000	
$	15 o-Terphenyl	230	9.509	9.508	(1.033)	85455	1.69113	670
*	19 Chrysene-d12	240	11.565	11.559	(1.000)	3207783	40.0000	
*	24 Perylene-d12	264	13.481	13.456	(1.000)	3432534	40.0000	
	2 Naphthalene	128	6.301	6.294	(1.003)	35322	0.36455	140
	3 2-Methylnaphthalene	142	6.994	6.993	(1.113)	27011	0.43783	170
	4 1-Methylnaphthalene	142	7.088	7.087	(1.128)	14632	0.23038	91
	5 1,1'-Biphenyl	154	7.435	7.428	(0.936)	6275	0.08571	34
	9 Dibenzofuran	168	8.122	8.116	(1.022)	6557	0.08343	33
	10 Fluorene	166	8.410	8.409	(1.058)	2968	0.04602	18
	12 Phenanthrene	178	9.221	9.214	(1.002)	35453	0.37952	150
	13 Anthracene	178	9.262	9.255	(1.006)	6120	0.06752	27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
16 Fluoranthene	202	10.202	10.195	(1.109)	38131	0.39900	160
17 Pyrene	202	10.390	10.383	(0.898)	31671	0.33723	130
18 Benzo(a)anthracene	228	11.548	11.541	(0.998)	25537	0.26825	110
20 Chrysene	228	11.589	11.582	(1.002)	34191	0.39884	160
21 Benzo(b)fluoranthene	252	12.899	12.898	(0.957)	33135	0.38532	150(H)
22 Benzo(k)fluoranthene	252	12.934	12.939	(0.959)	11708	0.13001	52(H)
23 Benzo(a)pyrene	252	13.363	13.362	(0.991)	18128	0.31141	120
25 Indeno(1,2,3-cd)pyrene	276	15.108	15.101	(1.121)	10633	0.26721	100(QM)
26 Dibenzo(a,h)anthracene	278	15.138	15.143	(1.123)	4054	0.12139	48(H)
27 Benzo(g,h,i)perylene	276	15.572	15.577	(1.155)	11892	0.15258	60(H)

QC Flag Legend

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

Data File: 1DE29022.D

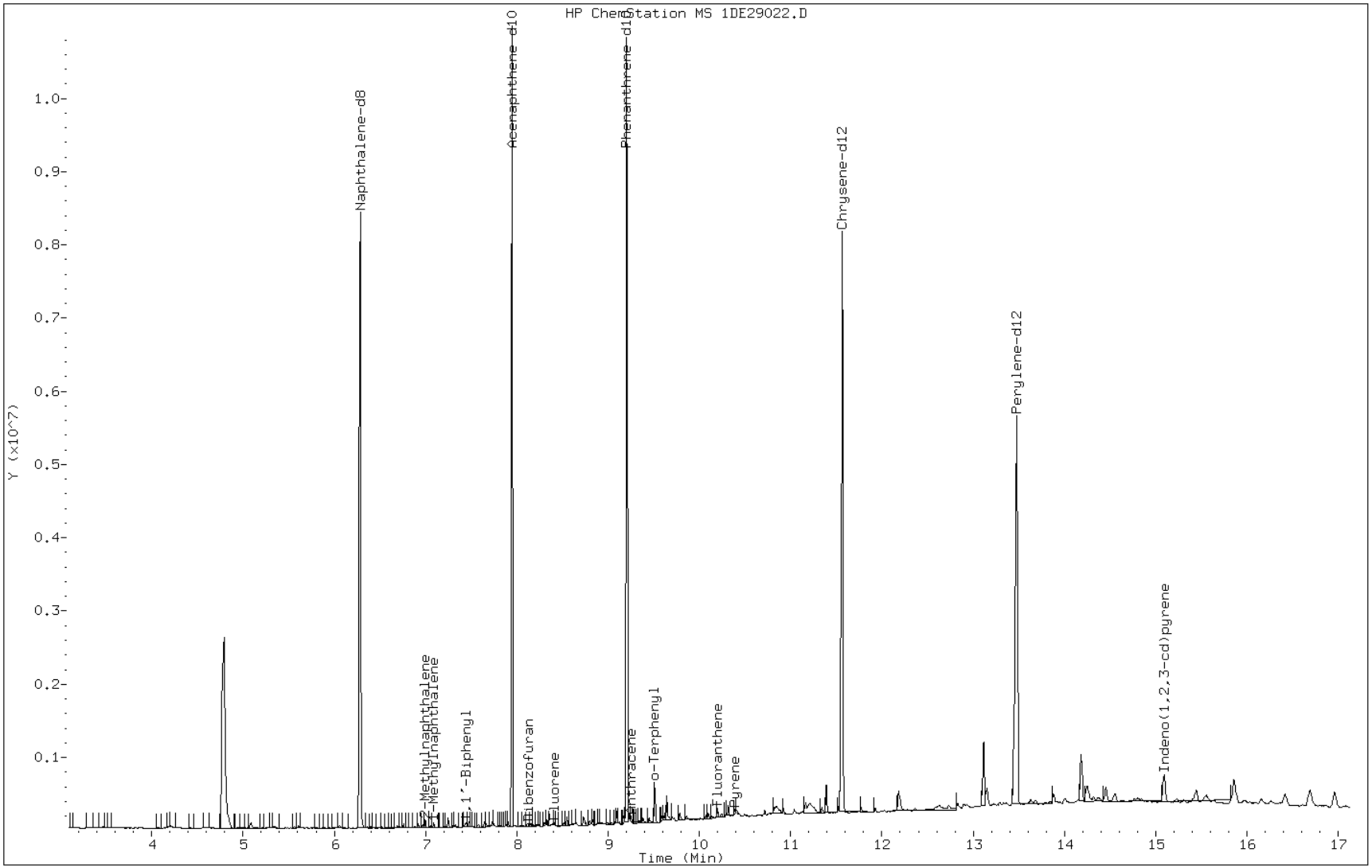
Date: 29-MAY-2013 22:18

Client ID: FM0217A-CS

Instrument: BSMSD.i

Sample Info: 680-90622-a-28-a

Operator: SCC



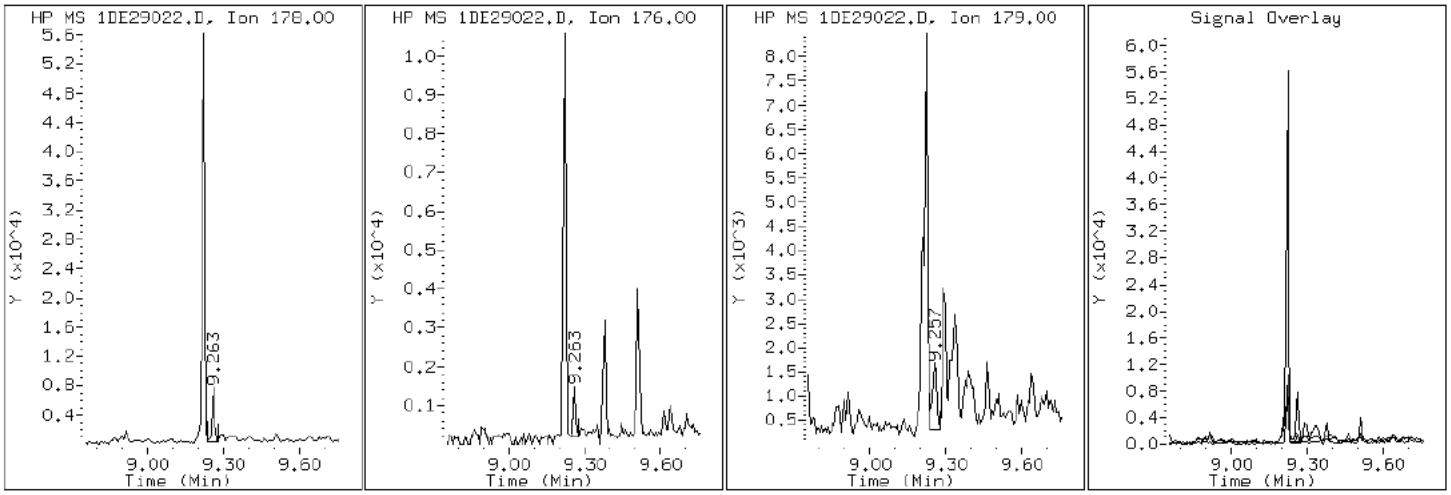
Data File: 1DE29022.D

Date: 29-MAY-2013 22:18

Client ID: FM0217A-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-28-a Operator: SCC

13 Anthracene



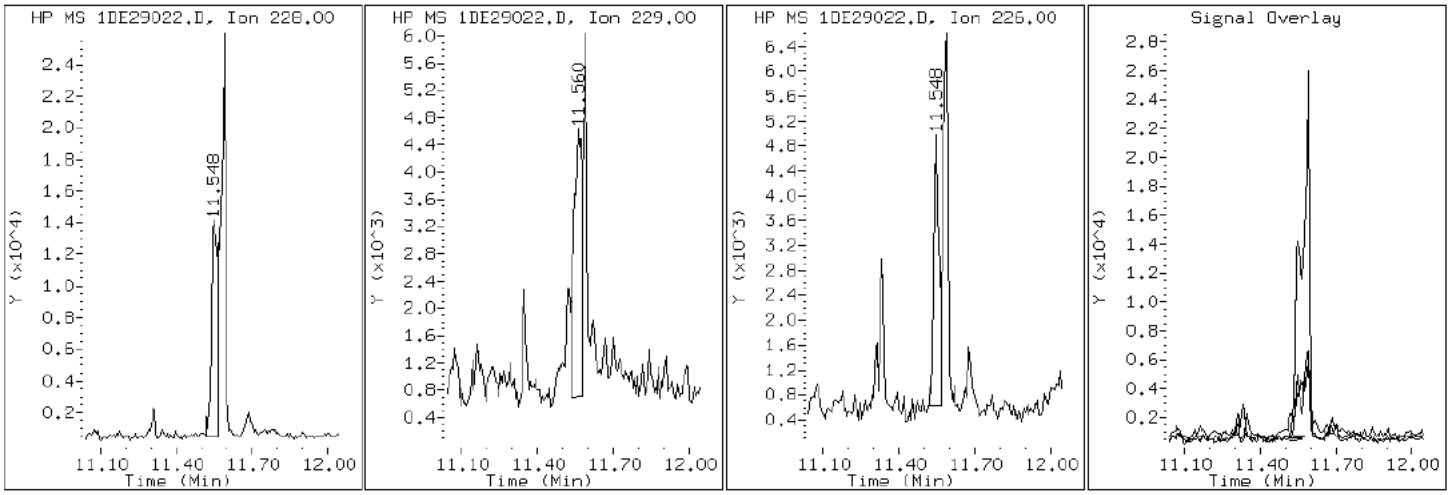
Data File: 1DE29022.D

Date: 29-MAY-2013 22:18

Client ID: FM0217A-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-28-a Operator: SCC

18 Benzo(a)anthracene



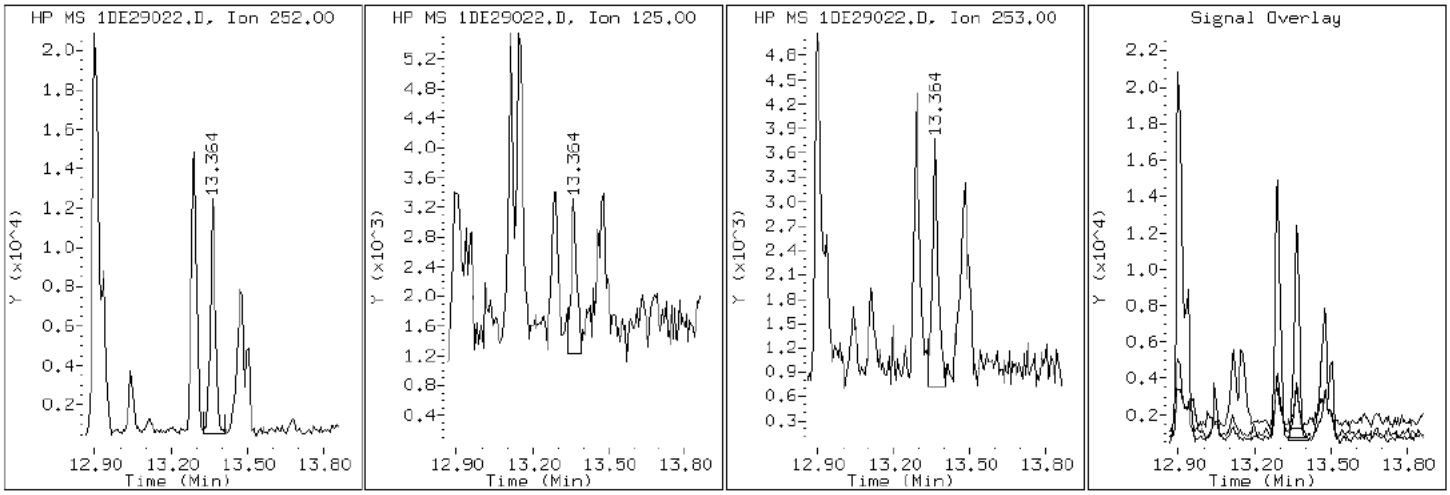
Data File: 1DE29022.D

Date: 29-MAY-2013 22:18

Client ID: FM0217A-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-28-a Operator: SCC

23 Benzo(a)pyrene



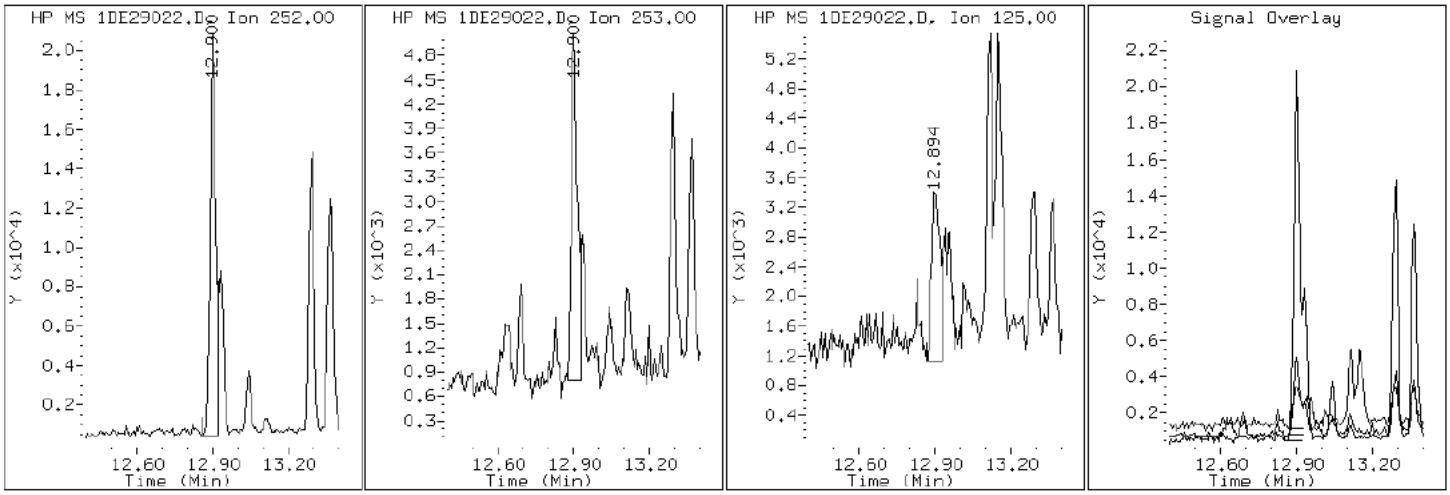
Data File: 1DE29022.D

Date: 29-MAY-2013 22:18

Client ID: FM0217A-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-28-a Operator: SCC

21 Benzo(b)fluoranthene



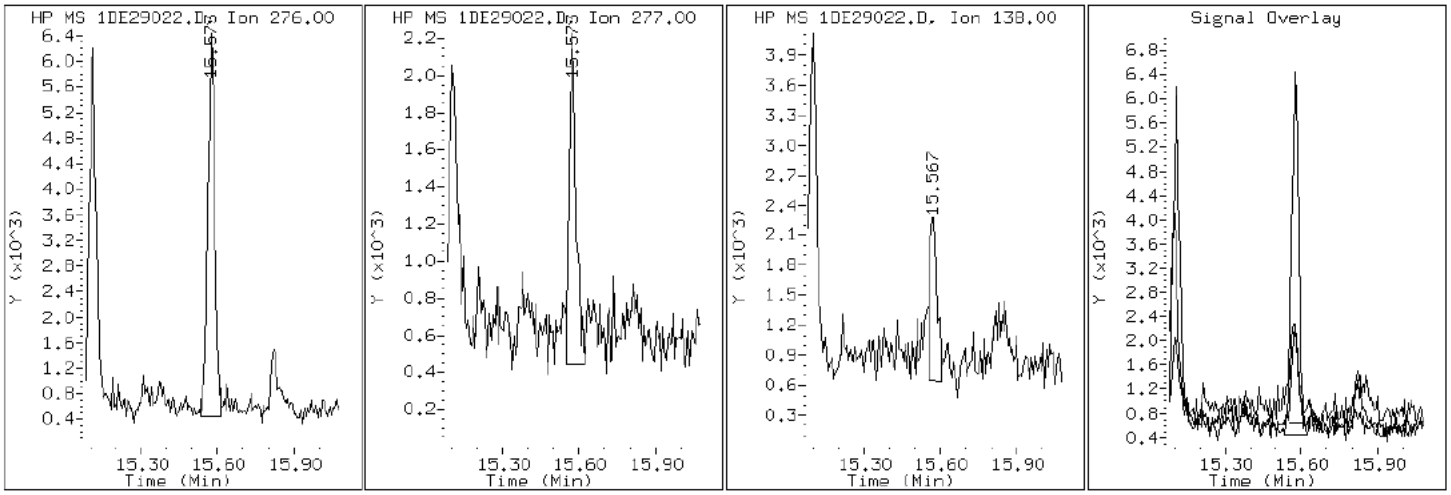
Data File: 1DE29022.D

Date: 29-MAY-2013 22:18

Client ID: FM0217A-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-28-a Operator: SCC

27 Benzo(g,h,i)perylene



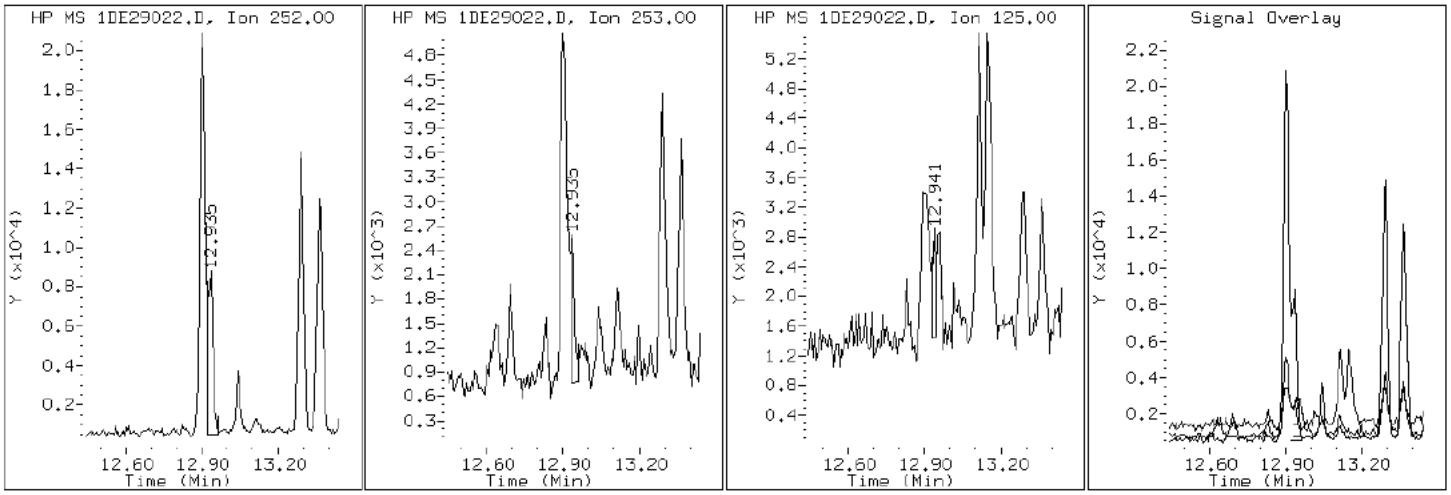
Data File: 1DE29022.D

Date: 29-MAY-2013 22:18

Client ID: FM0217A-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-28-a Operator: SCC

22 Benzo(k)fluoranthene



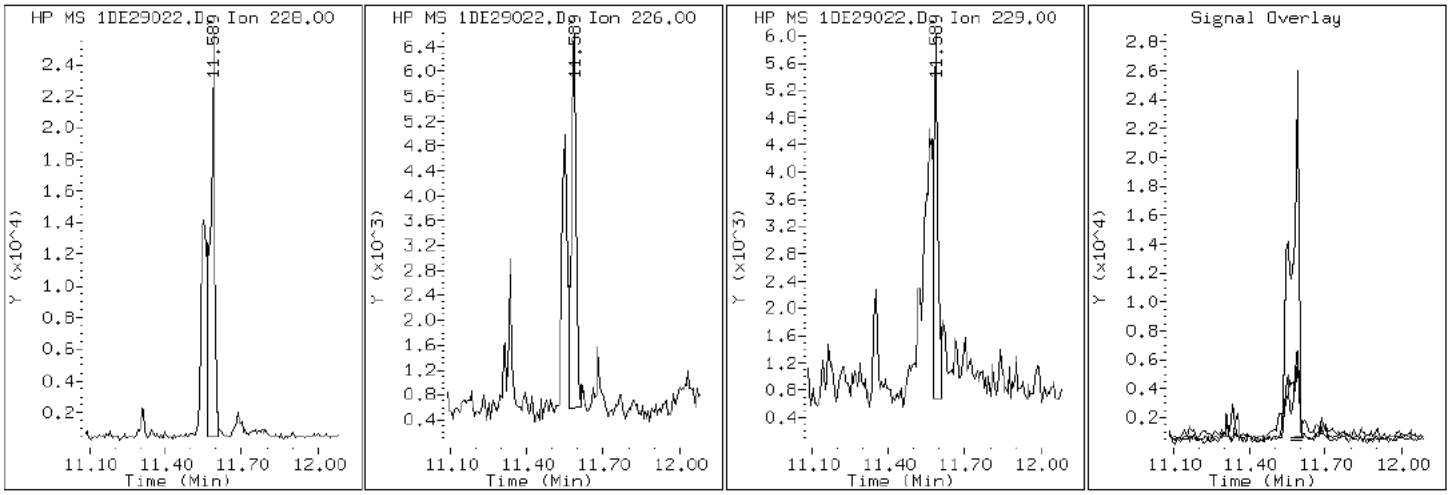
Data File: 1DE29022.D

Date: 29-MAY-2013 22:18

Client ID: FM0217A-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-28-a Operator: SCC

20 Chrysene



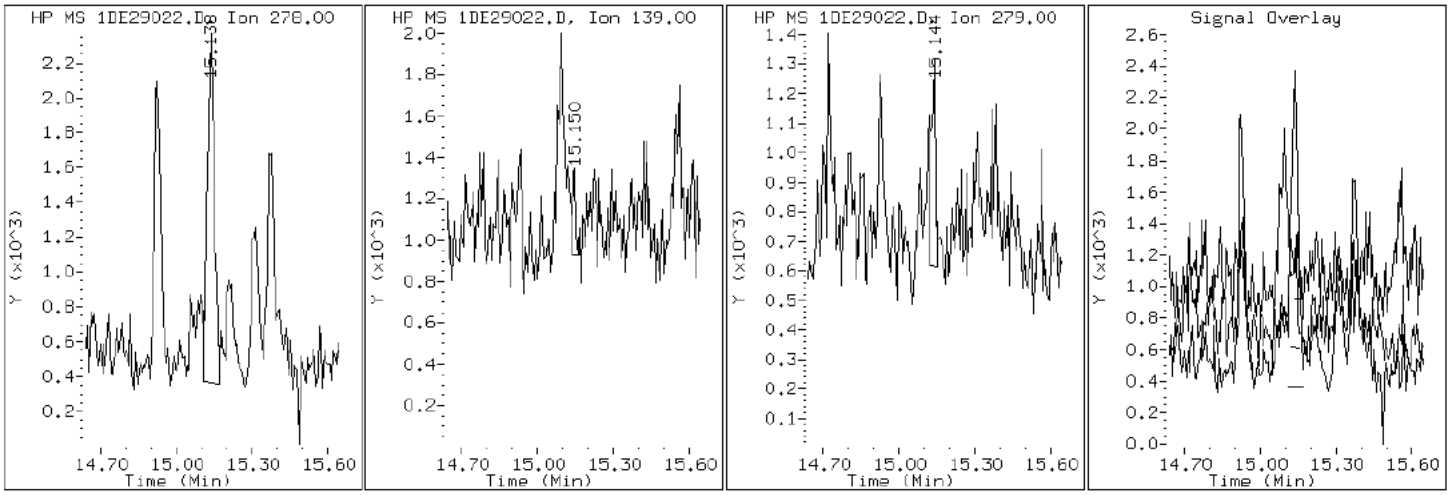
Data File: 1DE29022.D

Date: 29-MAY-2013 22:18

Client ID: FM0217A-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-28-a Operator: SCC

26 Dibenzo(a,h)anthracene



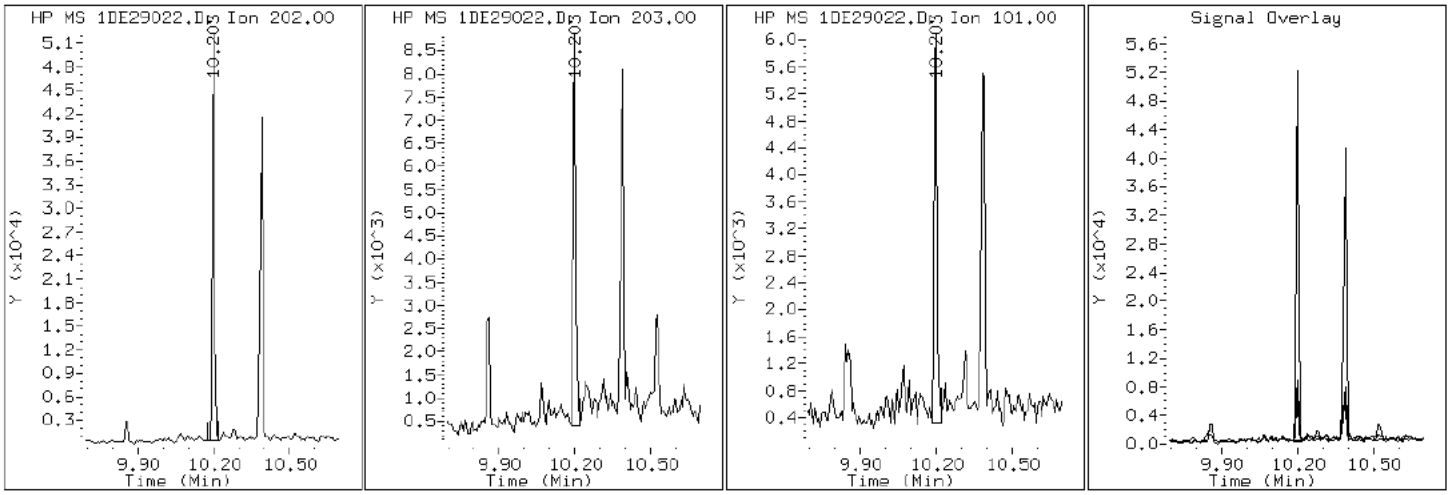
Data File: 1DE29022.D

Date: 29-MAY-2013 22:18

Client ID: FM0217A-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-28-a Operator: SCC

16 Fluoranthene



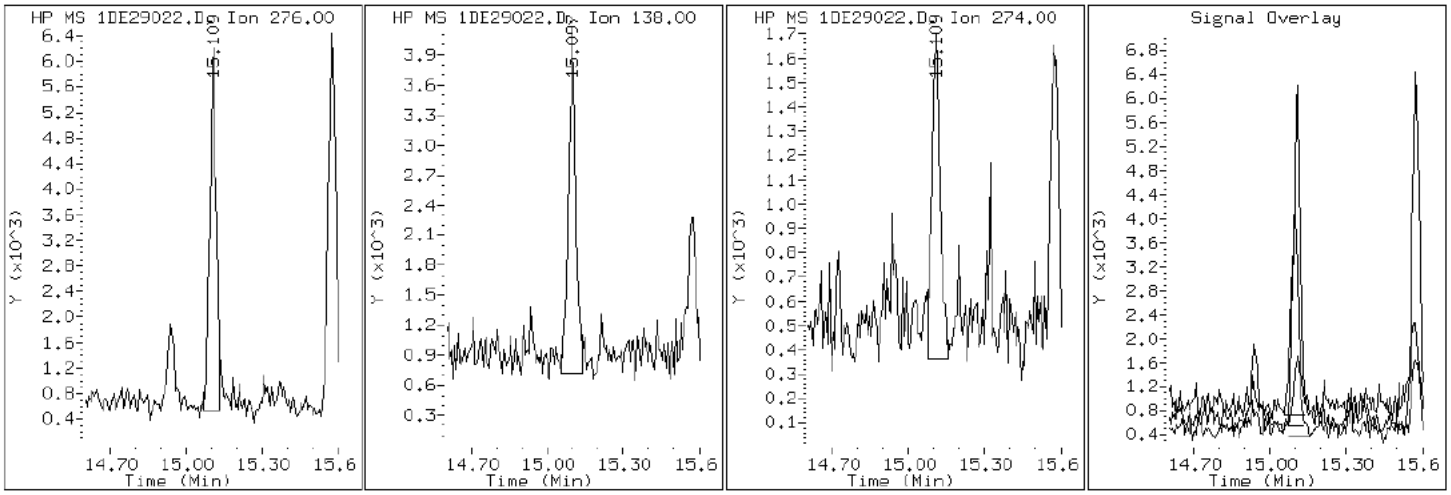
Data File: 1DE29022.D

Date: 29-MAY-2013 22:18

Client ID: FM0217A-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-28-a Operator: SCC

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



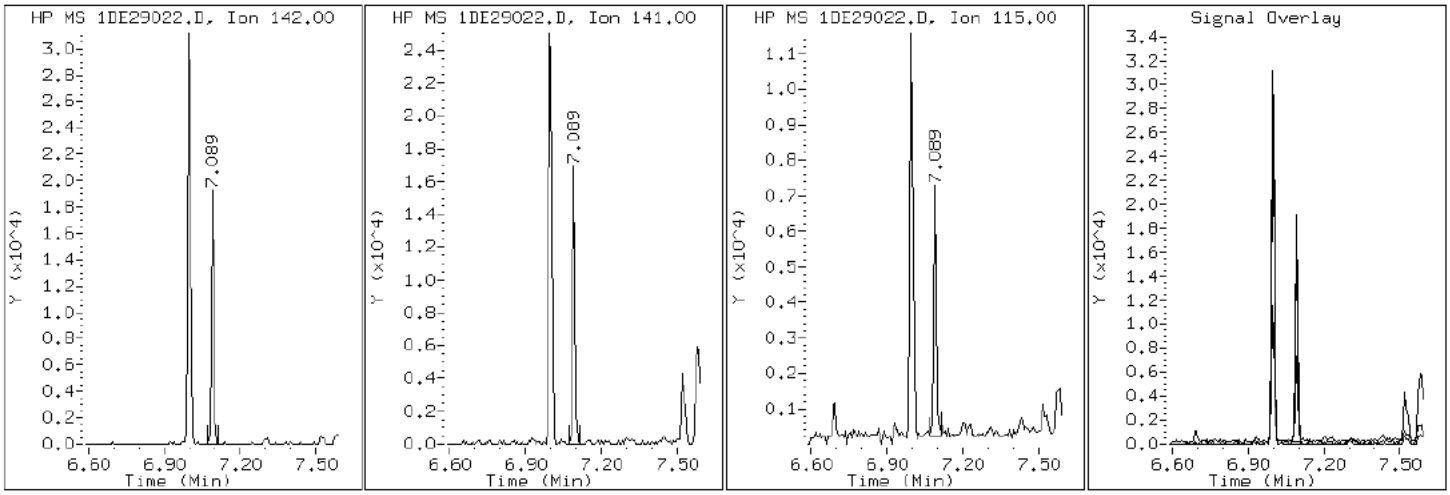
Data File: 1DE29022.D

Date: 29-MAY-2013 22:18

Client ID: FM0217A-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-28-a Operator: SCC

4 1-Methylnaphthalene



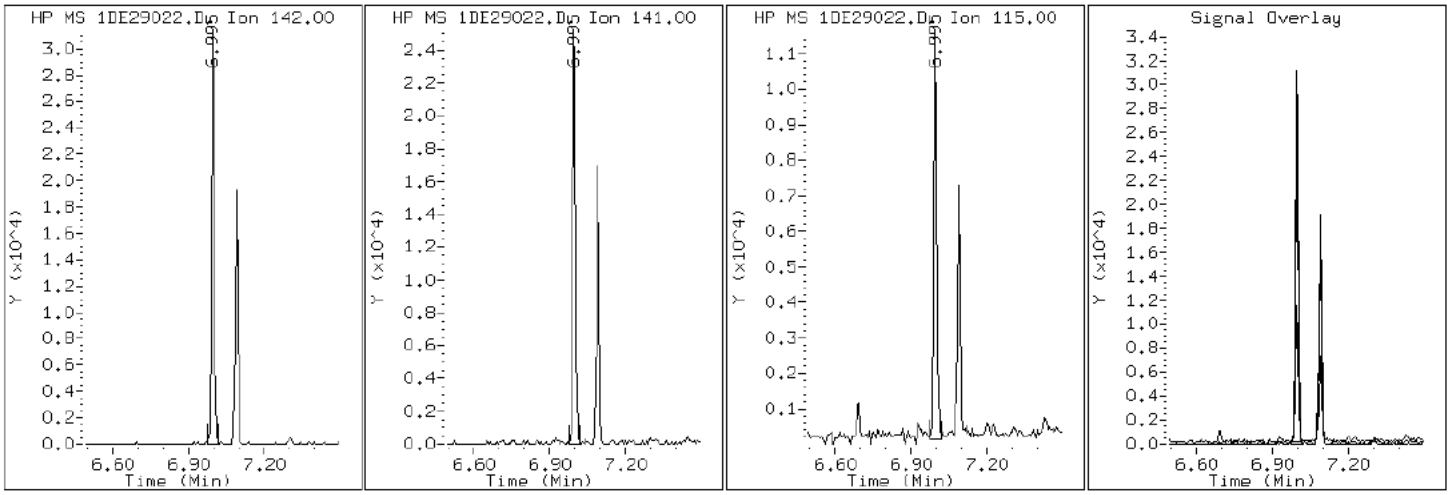
Data File: 1DE29022.D

Date: 29-MAY-2013 22:18

Client ID: FM0217A-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-28-a Operator: SCC

3 2-Methylnaphthalene



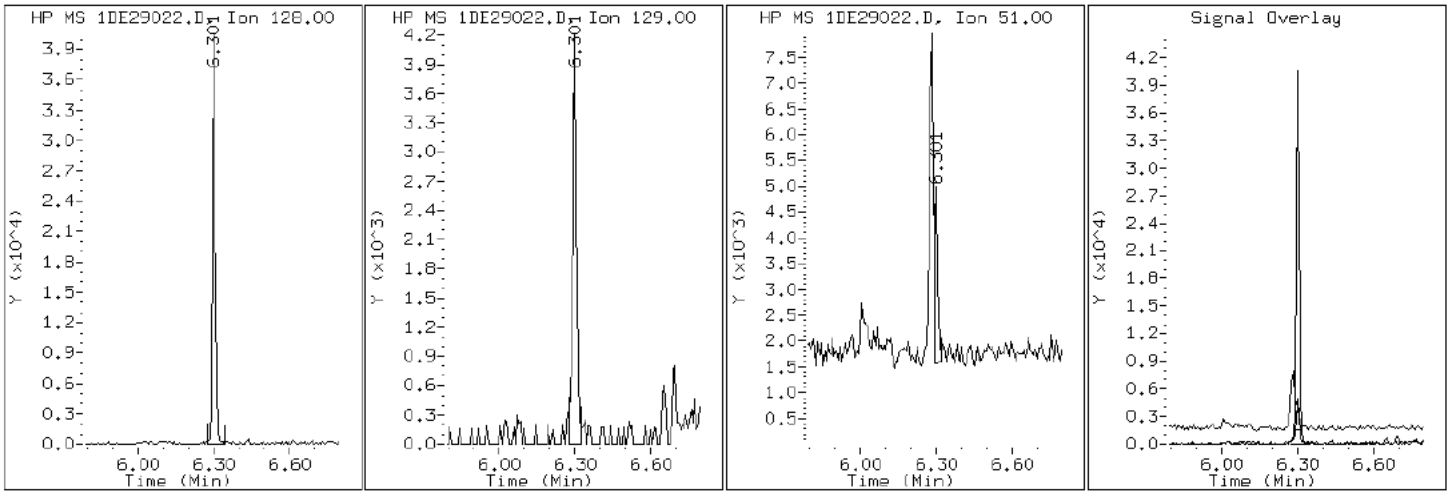
Data File: 1DE29022.D

Date: 29-MAY-2013 22:18

Client ID: FM0217A-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-28-a Operator: SCC

2 Naphthalene



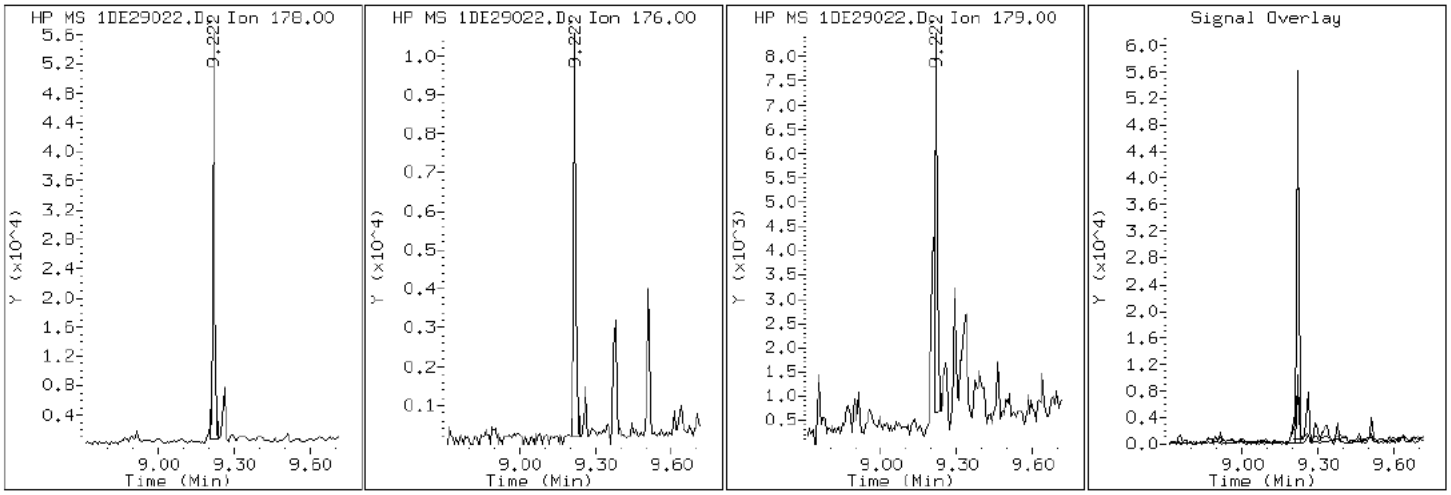
Data File: 1DE29022.D

Date: 29-MAY-2013 22:18

Client ID: FM0217A-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-28-a Operator: SCC

12 Phenanthrene



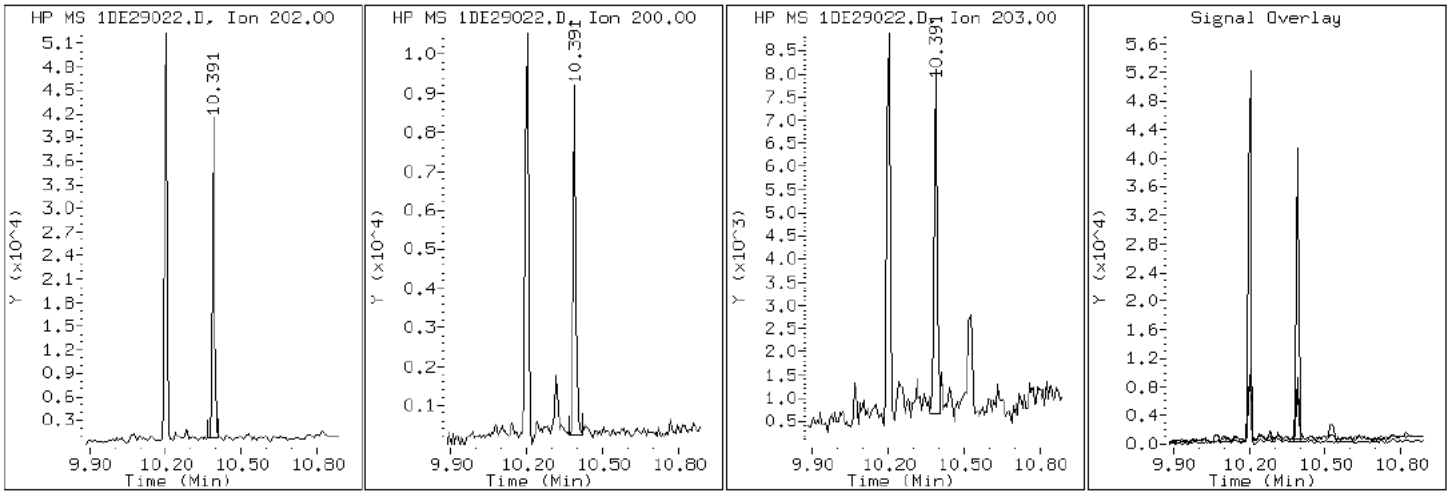
Data File: 1DE29022.D

Date: 29-MAY-2013 22:18

Client ID: FM0217A-CS Instrument: BSMSD.i

Sample Info: 680-90622-a-28-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DE29022.D
Inj. Date and Time: 29-MAY-2013 22:18
Instrument ID: BSMSD.i
Client ID: FM0217A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

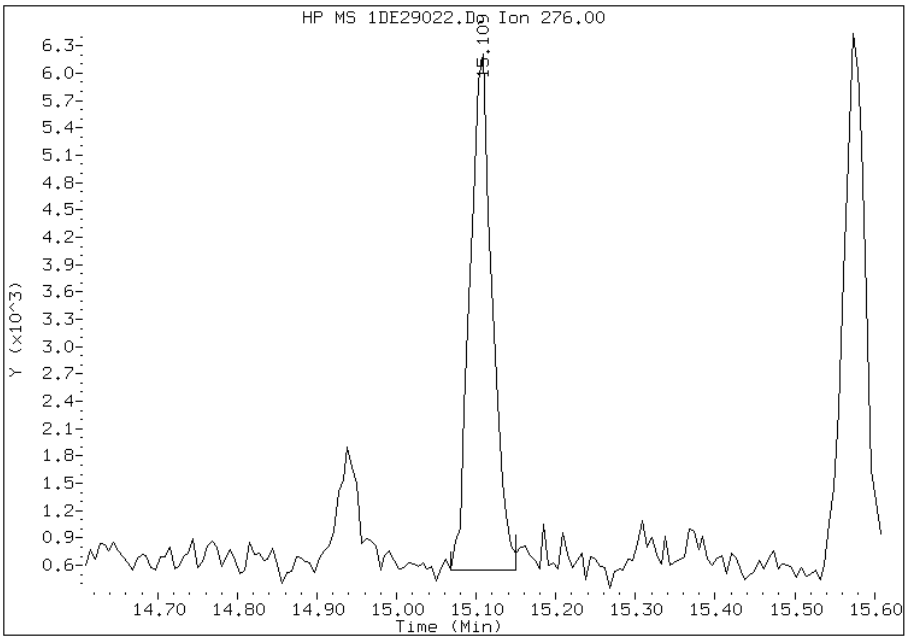
Processing Integration Results

RT: 15.11

Response: 11007

Amount: 0

Conc: 108



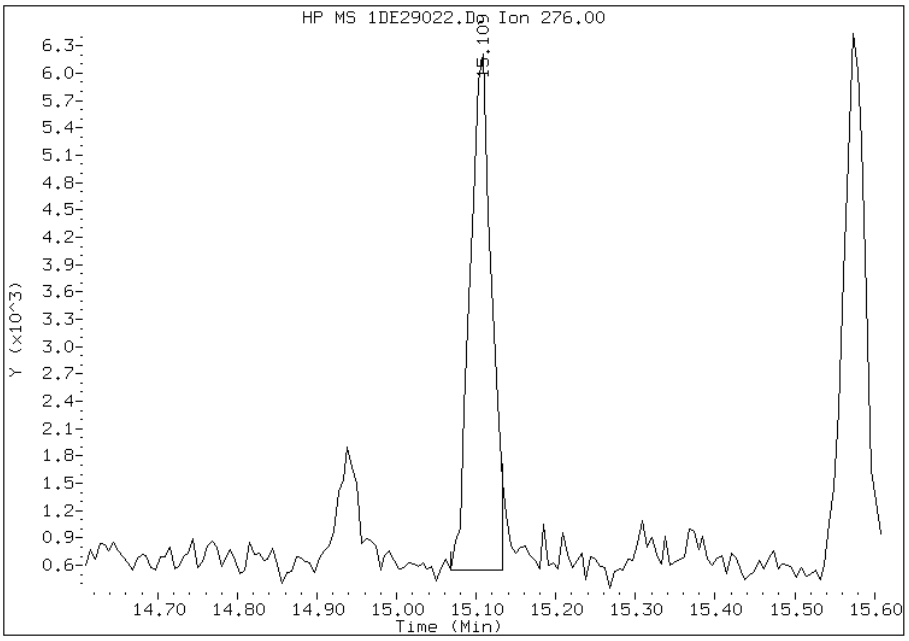
Manual Integration Results

RT: 15.11

Response: 10633

Amount: 0

Conc: 106



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 16:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV0828A-CS-SP | Lab Sample ID: 680-90622-29

Matrix: Solid | Lab File ID: 1DE29023.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 13:43

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 14.92(g) | Date Analyzed: 05/29/2013 22:40

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

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

% Moisture: 19.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137911 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	39	J	200	25
120-12-7	Anthracene	92		42	21
56-55-3	Benzo[a]anthracene	390		40	19
50-32-8	Benzo[a]pyrene	370		52	26
205-99-2	Benzo[b]fluoranthene	550		61	30
191-24-2	Benzo[g,h,i]perylene	160		100	22
207-08-9	Benzo[k]fluoranthene	160		40	18
218-01-9	Chrysene	570		45	22
53-70-3	Dibenz(a,h)anthracene	87	J	100	20
206-44-0	Fluoranthene	690		100	20
86-73-7	Fluorene	32	J	100	20
193-39-5	Indeno[1,2,3-cd]pyrene	200		100	35
90-12-0	1-Methylnaphthalene	140	J	200	22
91-57-6	2-Methylnaphthalene	120	J	200	35
91-20-3	Naphthalene	77	J	200	22
85-01-8	Phenanthrene	700	B	40	19
129-00-0	Pyrene	780		100	18

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\1DE29023.D
Lab Smp Id: 680-90622-A-29-A Client Smp ID: CV0828A-CS-SP
Inj Date : 29-MAY-2013 22:40
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90622-a-29-a
Misc Info : 680-90622-A-29-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\dFASTPAHi.m
Meth Date : 29-May-2013 17:42 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 23
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	19.486	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.283	6.277	(1.000)	4128316	40.0000	
* 7	Acenaphthene-d10	164	7.946	7.945	(1.000)	2250899	40.0000	
* 11	Phenanthrene-d10	188	9.204	9.197	(1.000)	3583942	40.0000	
$ 15	o-Terphenyl	230	9.509	9.508	(1.033)	86020	1.63830	540
* 19	Chrysene-d12	240	11.566	11.559	(1.000)	3255710	40.0000	
* 24	Perylene-d12	264	13.481	13.456	(1.000)	3482414	40.0000	
2	Naphthalene	128	6.301	6.294	(1.003)	23533	0.23115	77
3	2-Methylnaphthalene	142	6.994	6.993	(1.113)	24108	0.37191	120
4	1-Methylnaphthalene	142	7.088	7.087	(1.128)	27110	0.40624	140
5	1,1'-Biphenyl	154	7.435	7.428	(0.936)	6039	0.07941	26
6	Acenaphthylene	152	7.817	7.816	(0.984)	10939	0.11721	39
9	Dibenzofuran	168	8.117	8.116	(1.021)	11580	0.14186	47
10	Fluorene	166	8.410	8.409	(1.058)	6526	0.09742	32
12	Phenanthrene	178	9.221	9.214	(1.002)	204735	2.10926	700

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.262	9.255	(1.006)	25948	0.27552	92
16 Fluoranthene	202	10.202	10.195	(1.109)	206488	2.07942	690
17 Pyrene	202	10.390	10.383	(0.898)	224126	2.35132	780
18 Benzo(a)anthracene	228	11.548	11.541	(0.998)	112240	1.16164	390
20 Chrysene	228	11.589	11.582	(1.002)	150180	1.72608	570
21 Benzo(b)fluoranthene	252	12.899	12.898	(0.957)	144761	1.65930	550(H)
22 Benzo(k)fluoranthene	252	12.934	12.939	(0.959)	44498	0.48706	160
23 Benzo(a)pyrene	252	13.363	13.362	(0.991)	86427	1.09914	360
25 Indeno(1,2,3-cd)pyrene	276	15.103	15.101	(1.120)	41749	0.60926	200(M)
26 Dibenzo(a,h)anthracene	278	15.138	15.143	(1.123)	15746	0.26116	87
27 Benzo(g,h,i)perylene	276	15.573	15.577	(1.155)	38130	0.48221	160(H)

QC Flag Legend

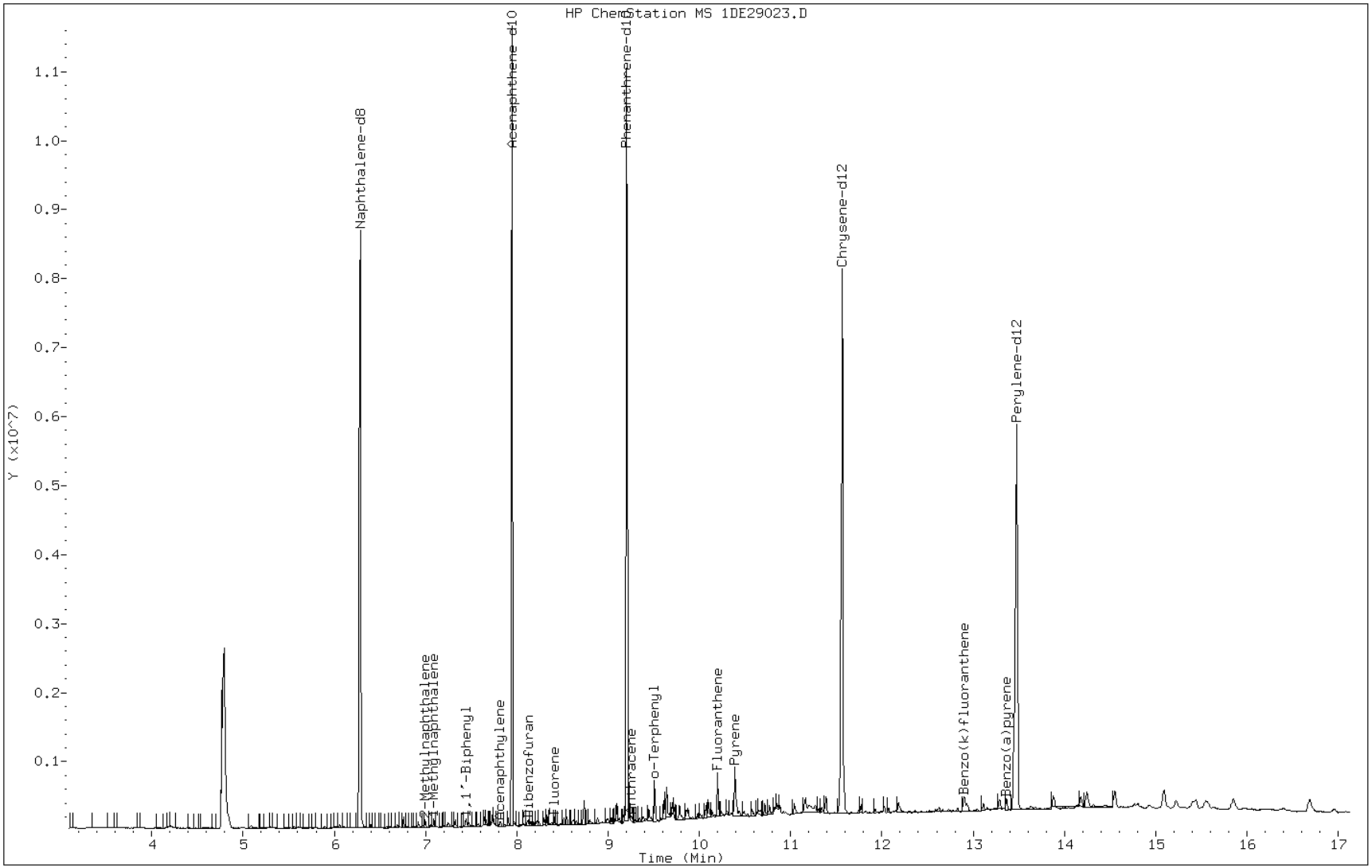
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC



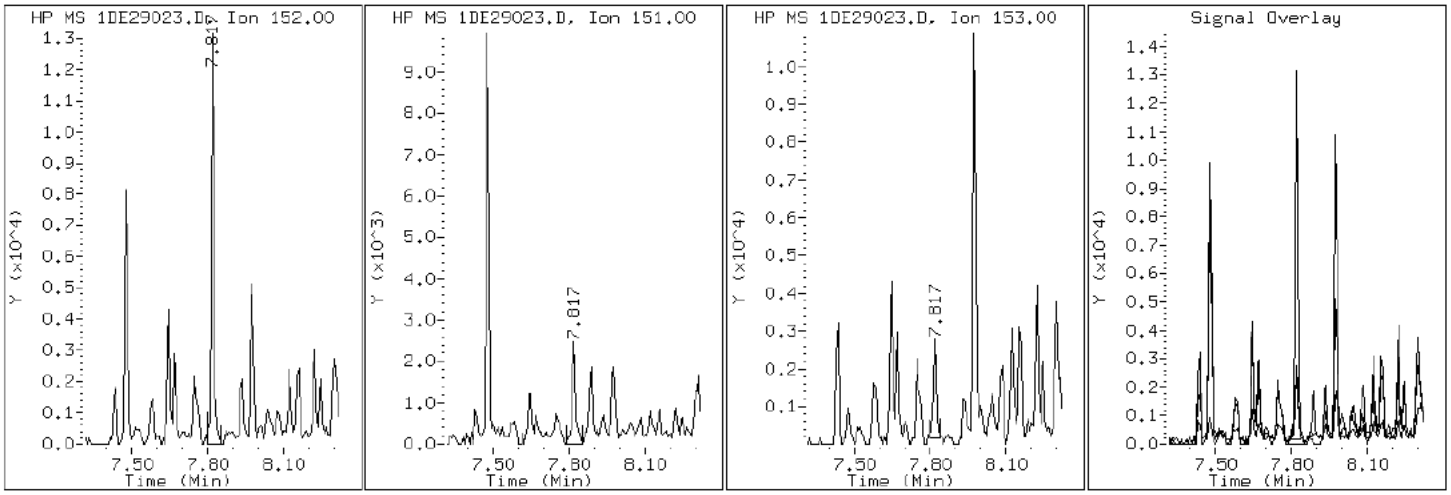
Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC

6 Acenaphthylene



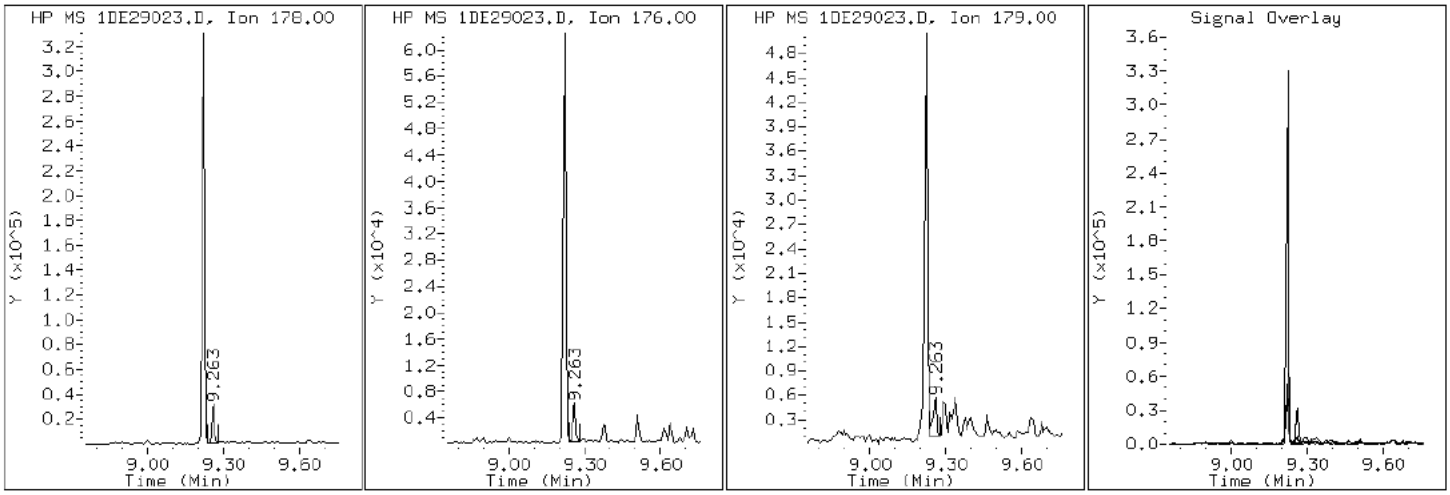
Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC

13 Anthracene



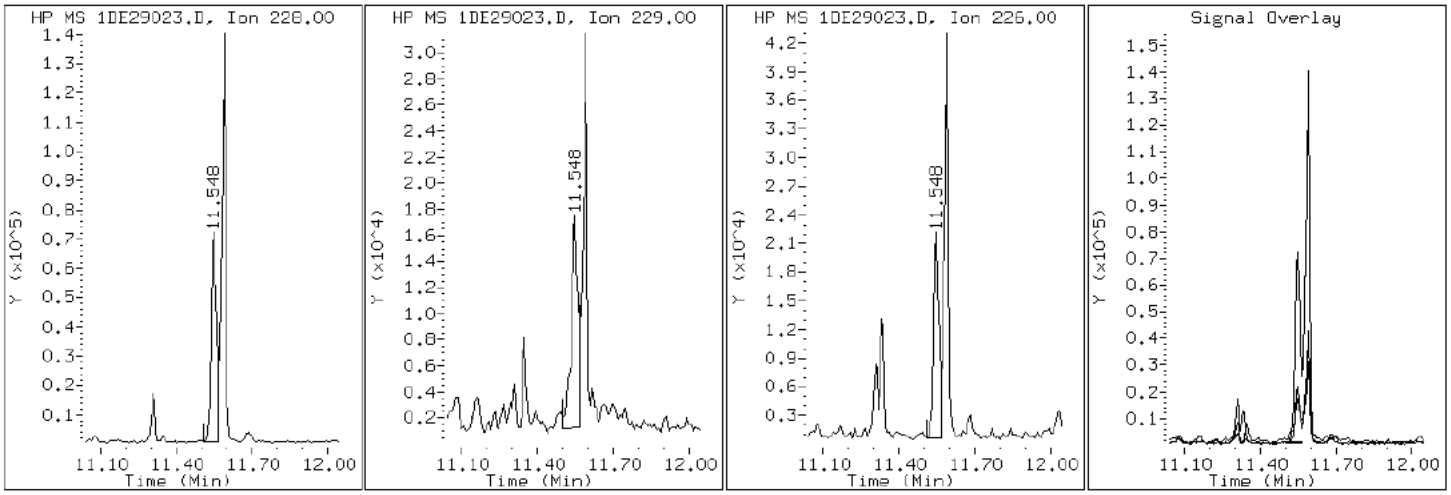
Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC

18 Benzo(a)anthracene



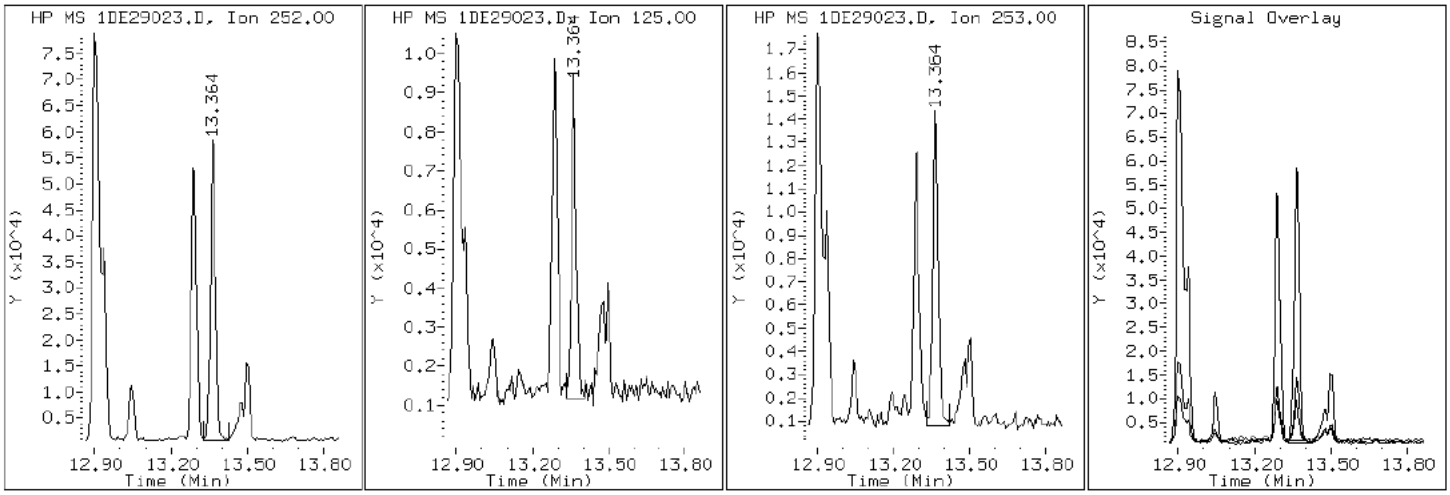
Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC

23 Benzo(a)pyrene



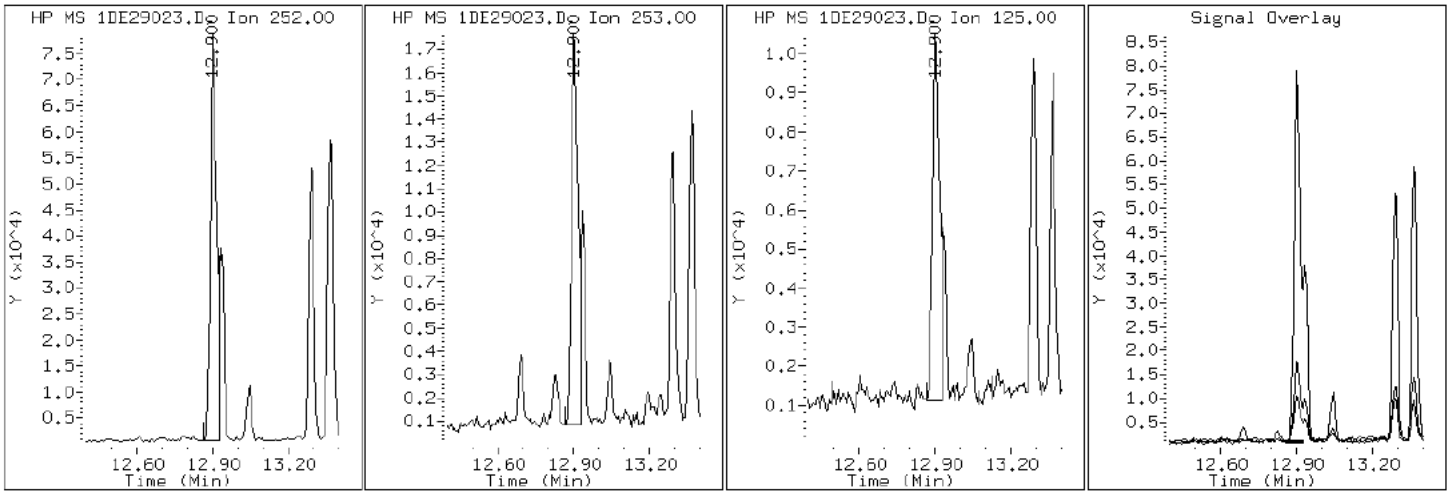
Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC

21 Benzo(b)fluoranthene



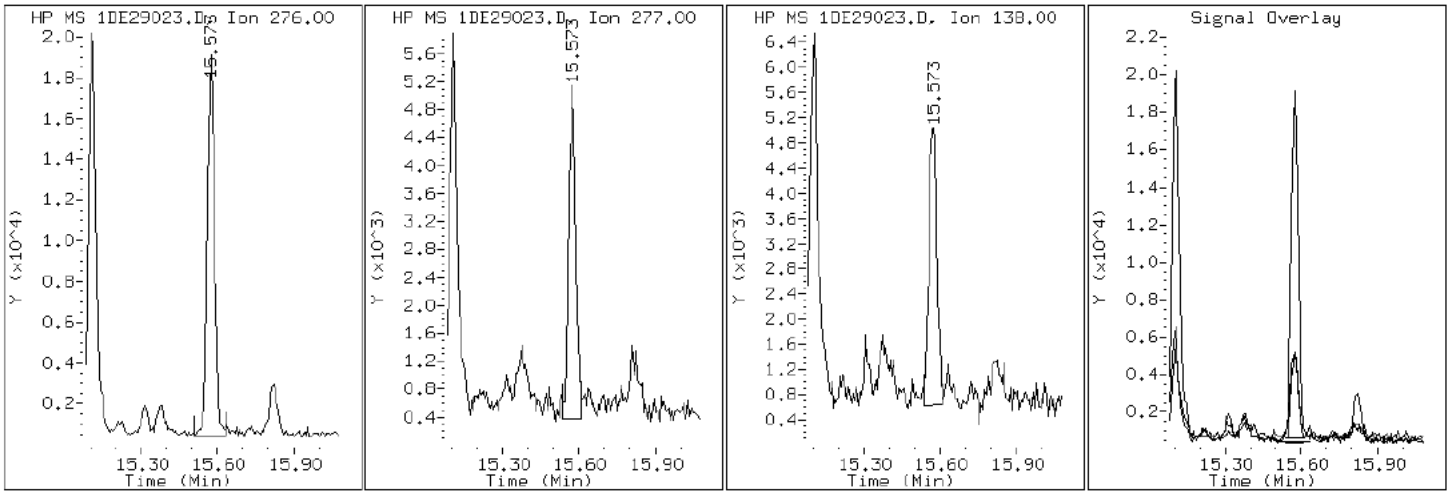
Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC

27 Benzo(g,h,i)perylene



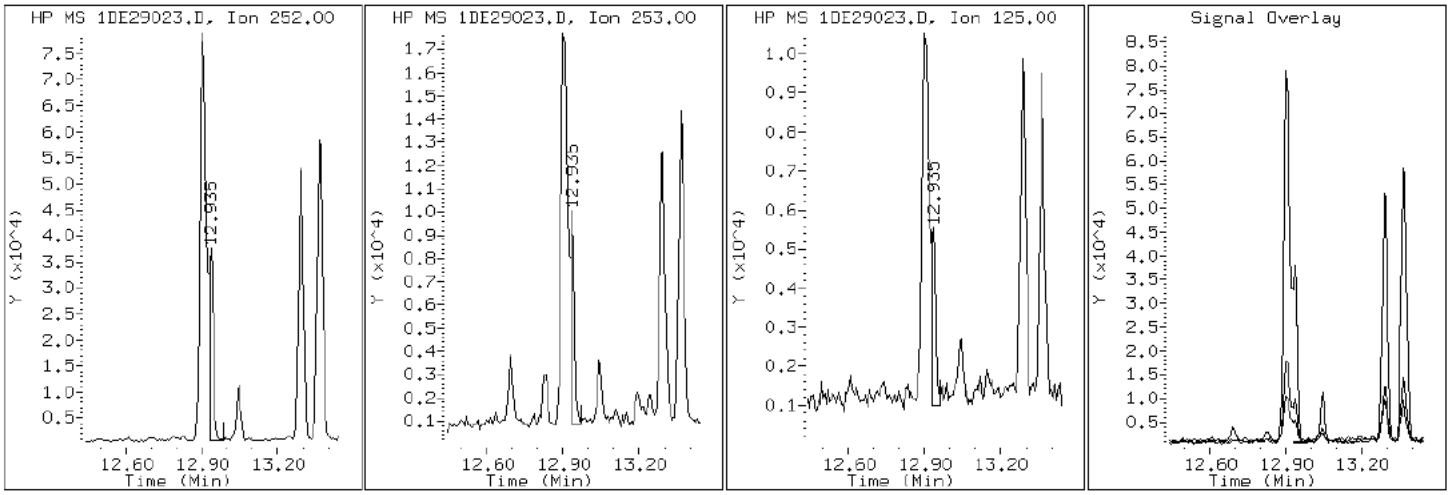
Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC

22 Benzo(k)fluoranthene



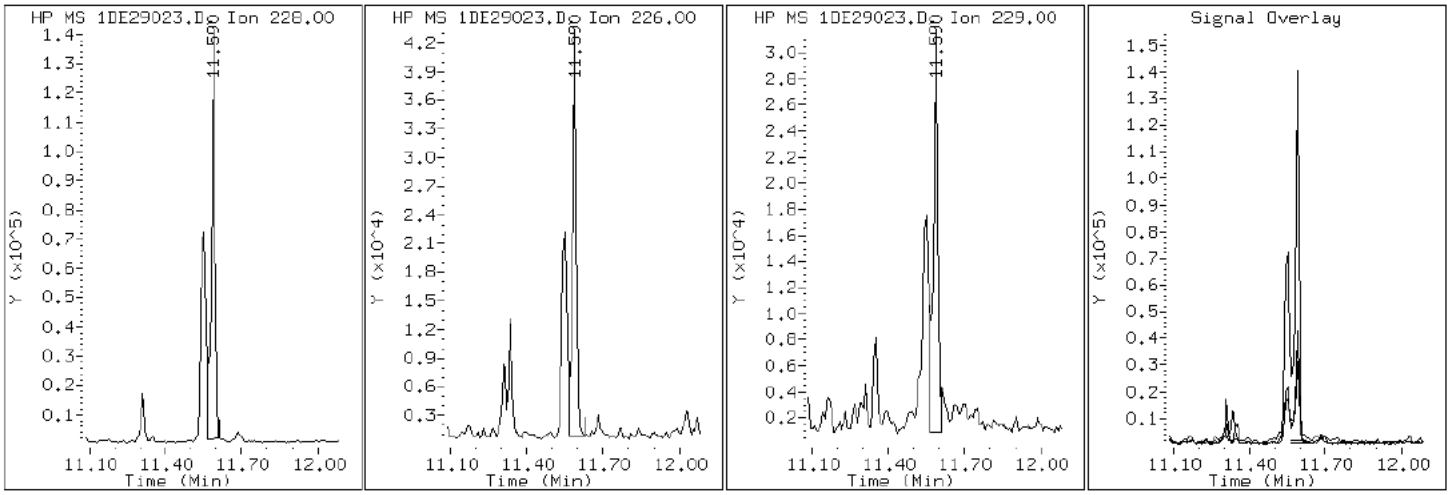
Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC

20 Chrysene



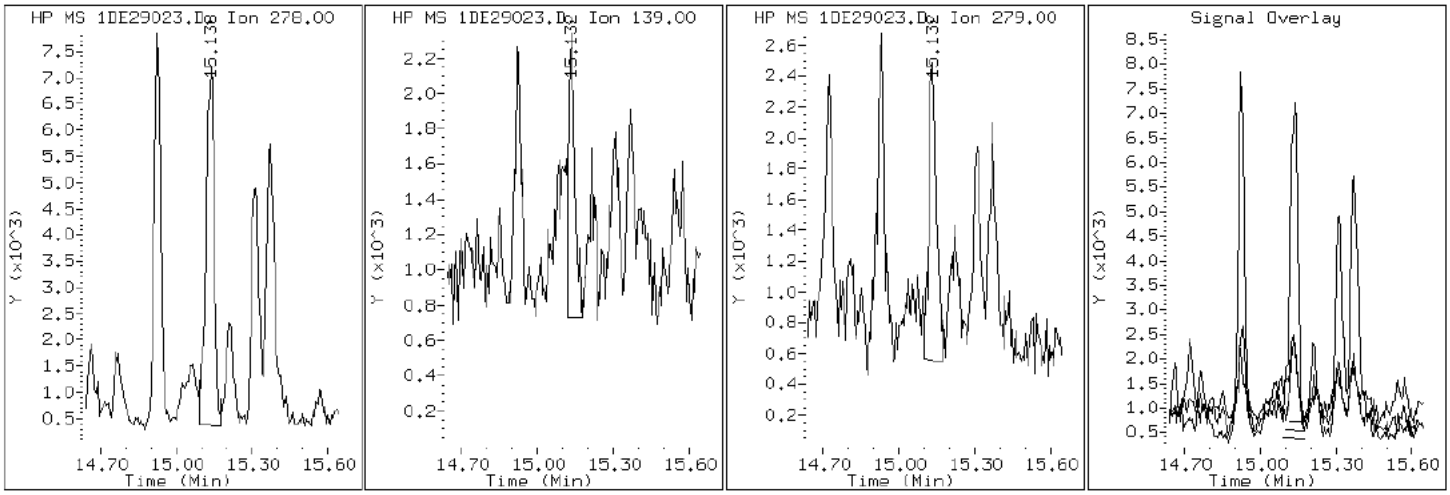
Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC

26 Dibenzo(a,h)anthracene



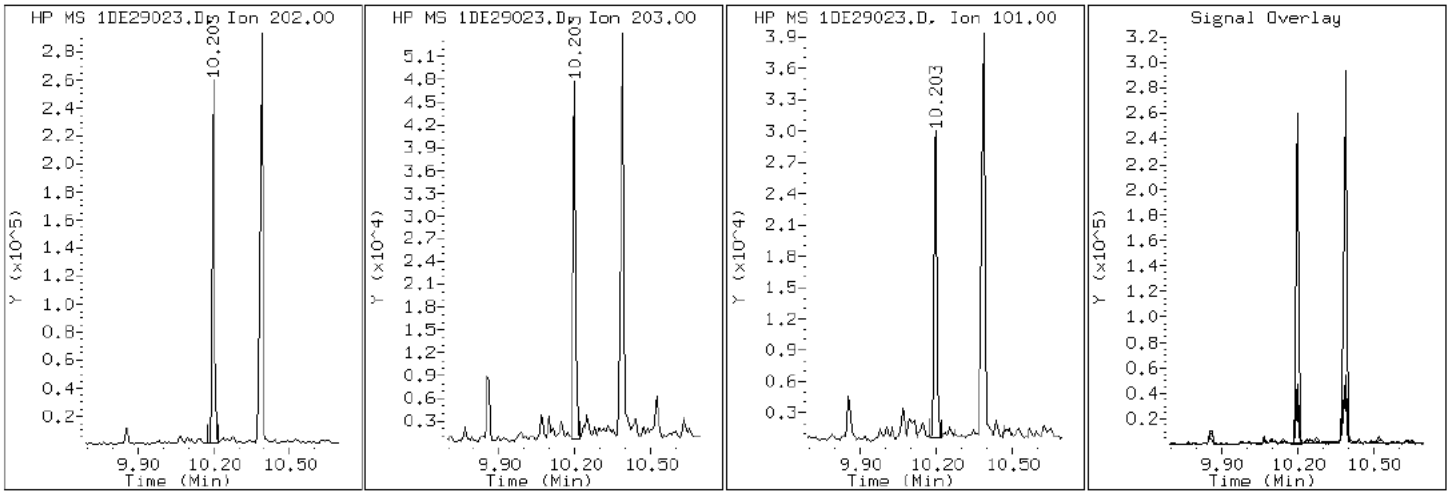
Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC

16 Fluoranthene



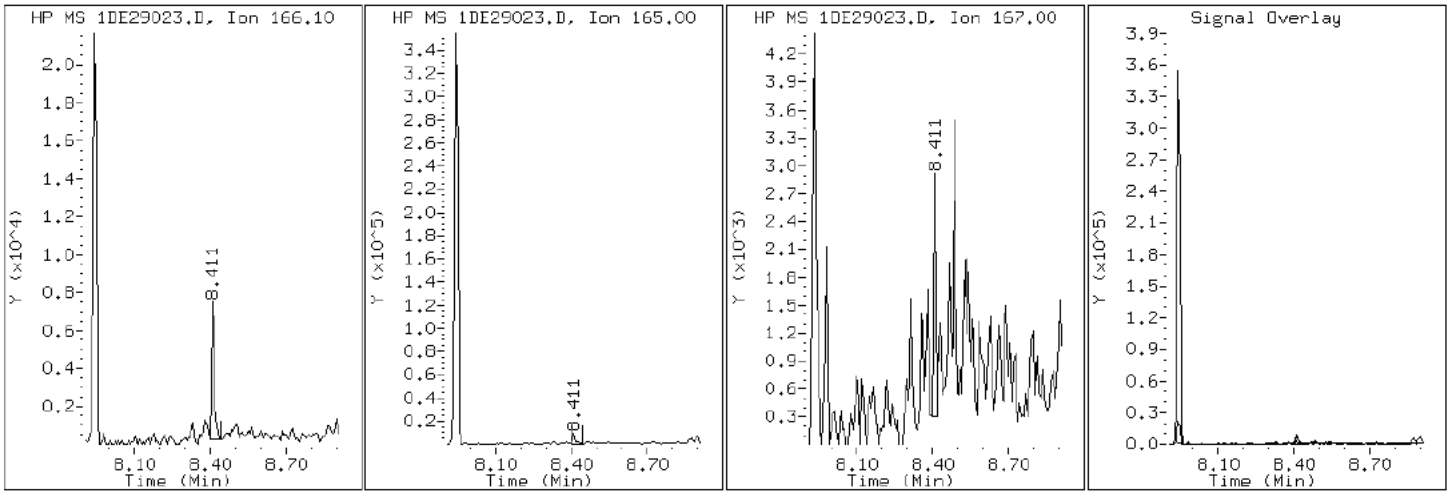
Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC

10 Fluorene



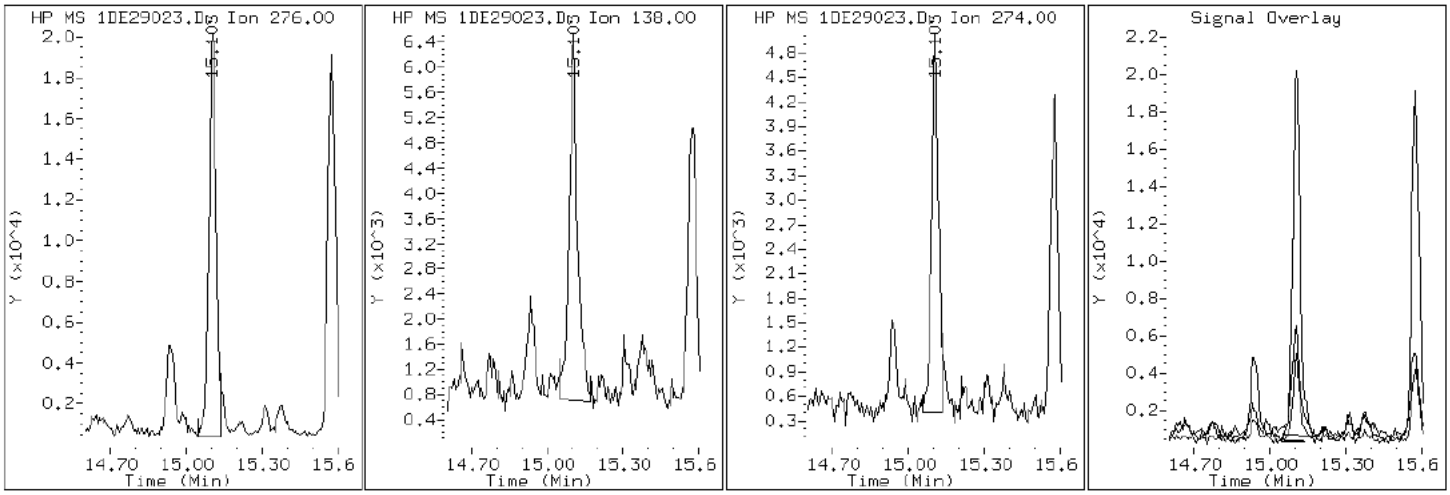
Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC

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



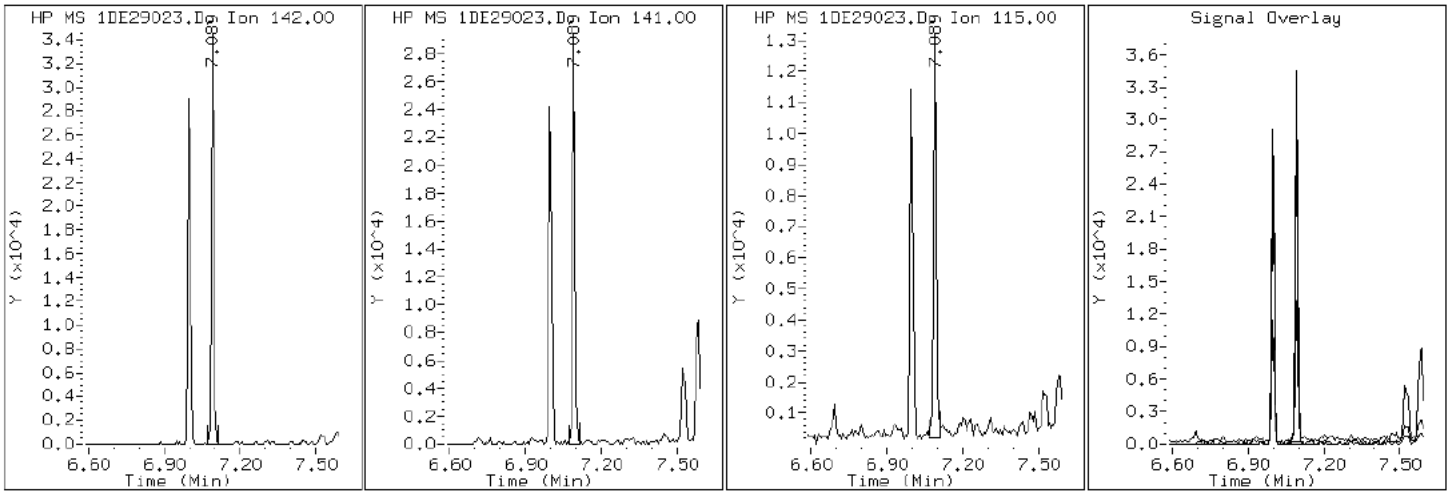
Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC

4 1-Methylnaphthalene



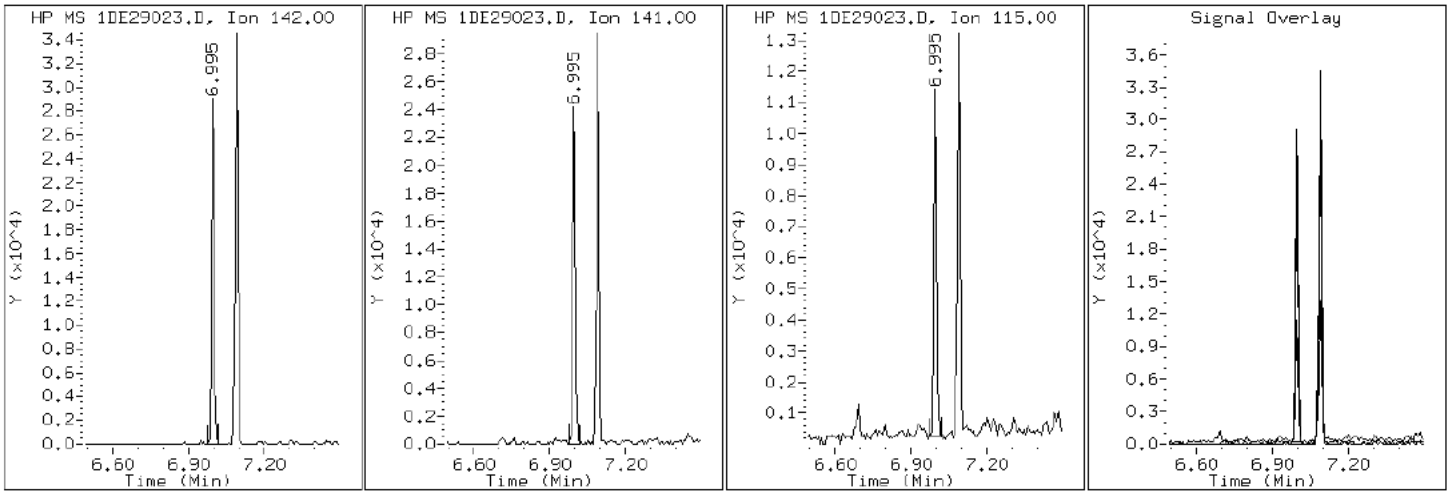
Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC

3 2-Methylnaphthalene



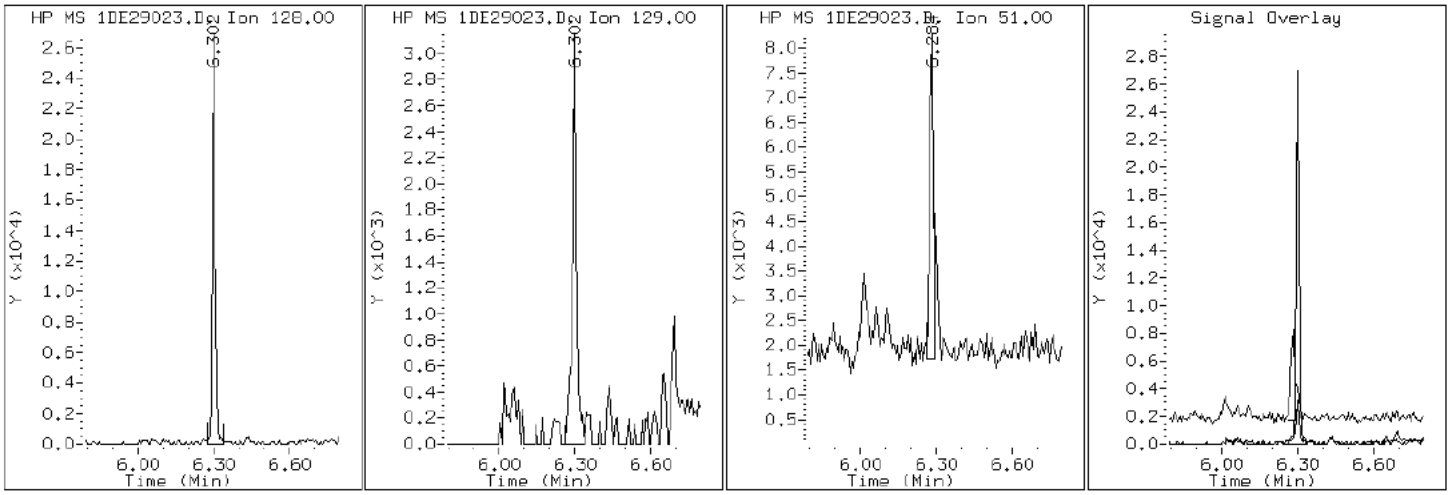
Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC

2 Naphthalene



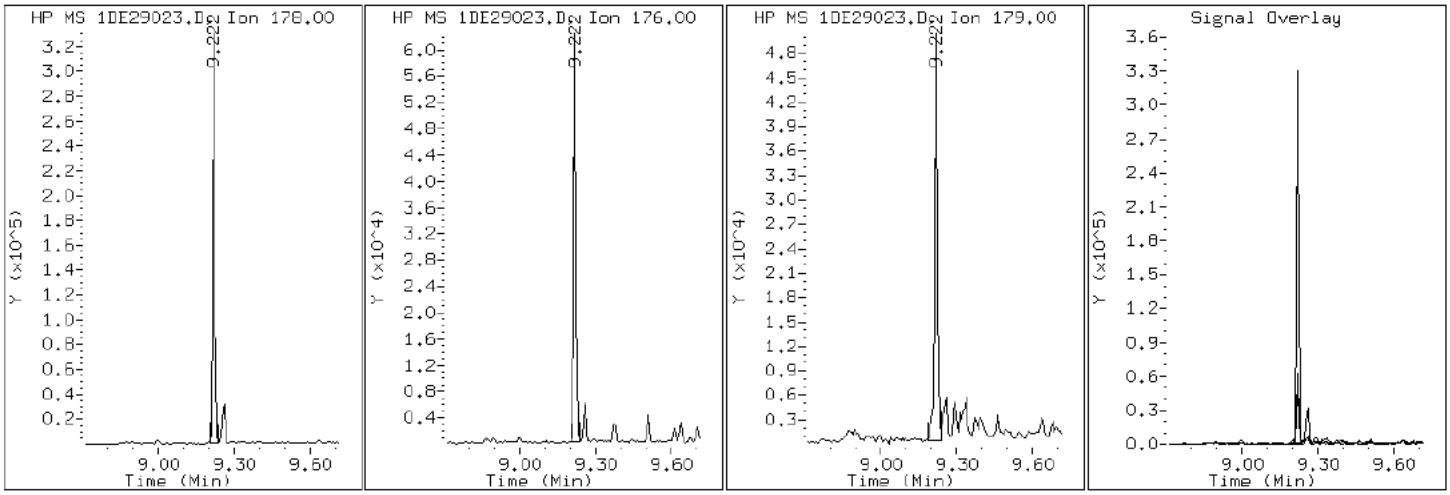
Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC

12 Phenanthrene



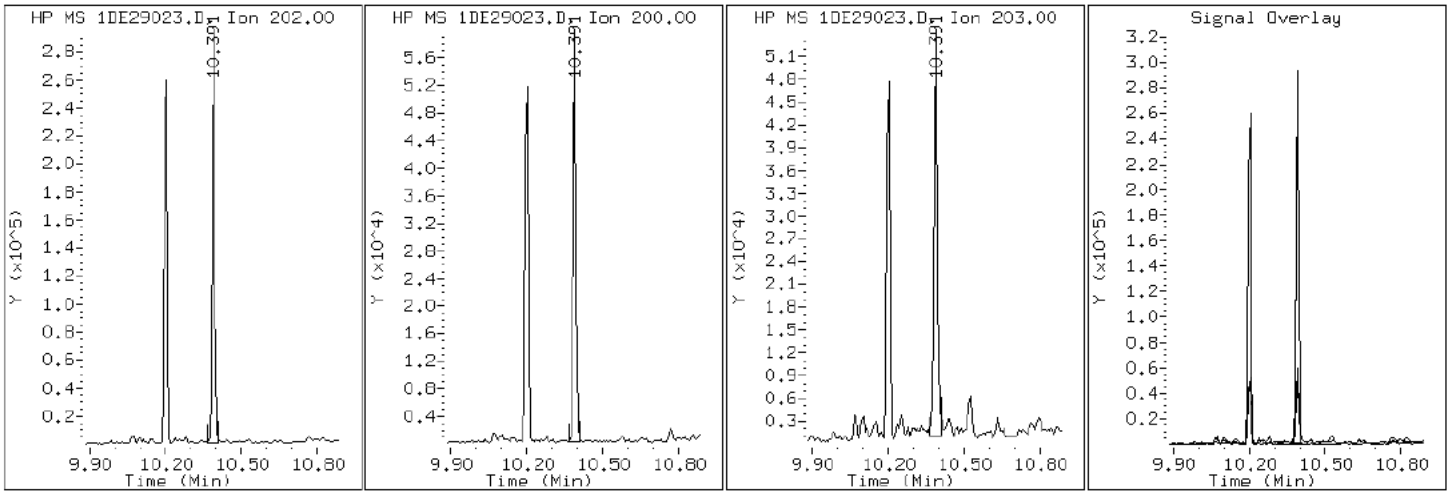
Data File: 1DE29023.D

Date: 29-MAY-2013 22:40

Client ID: CV0828A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-29-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DE29023.D
Inj. Date and Time: 29-MAY-2013 22:40
Instrument ID: BSMSD.i
Client ID: CV0828A-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

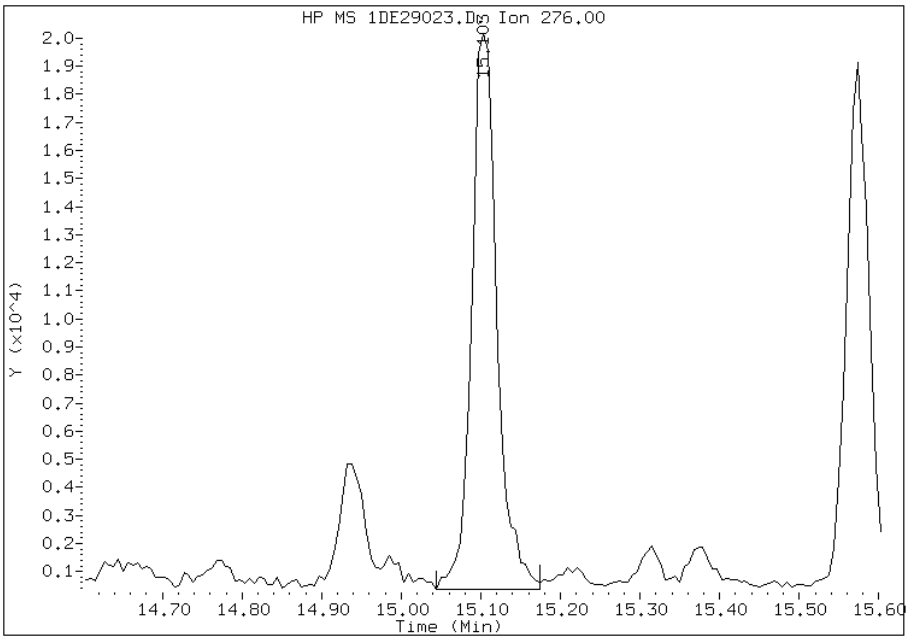
Processing Integration Results

RT: 15.10

Response: 43509

Amount: 1

Conc: 209



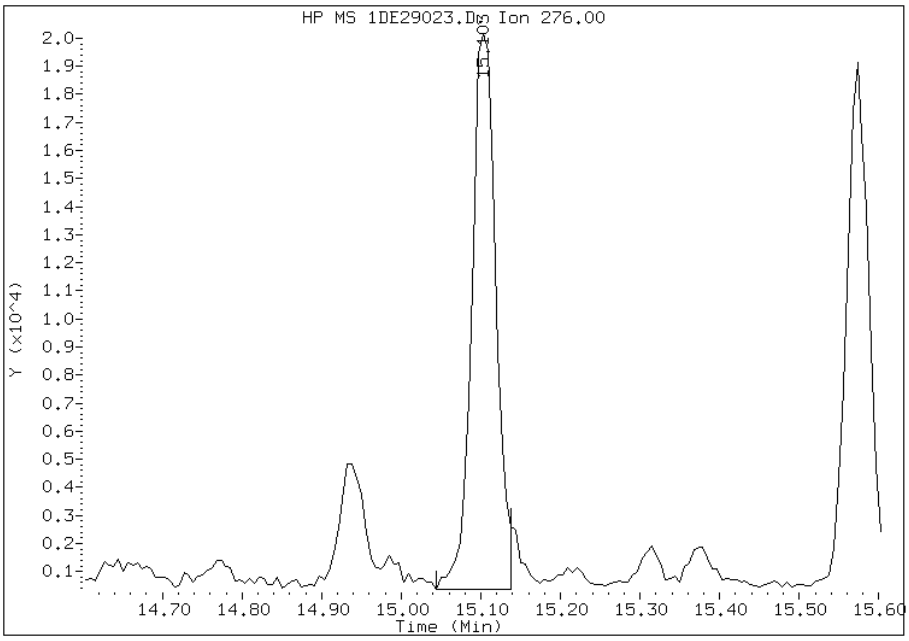
Manual Integration Results

RT: 15.10

Response: 41749

Amount: 1

Conc: 203



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 16:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV0828B-CS-SP | Lab Sample ID: 680-90622-30

Matrix: Solid | Lab File ID: 1DE29024.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 14:02

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 15.38(g) | Date Analyzed: 05/29/2013 23:03

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

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

% Moisture: 24.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137911 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	40	J	52	6.4
120-12-7	Anthracene	88		11	5.4
56-55-3	Benzo[a]anthracene	200		10	5.0
50-32-8	Benzo[a]pyrene	180		13	6.7
205-99-2	Benzo[b]fluoranthene	350		16	7.9
191-24-2	Benzo[g,h,i]perylene	88		26	5.7
207-08-9	Benzo[k]fluoranthene	100		10	4.6
218-01-9	Chrysene	300		12	5.8
53-70-3	Dibenz(a,h)anthracene	38		26	5.3
206-44-0	Fluoranthene	350		26	5.2
86-73-7	Fluorene	28		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	94		26	9.2
90-12-0	1-Methylnaphthalene	140		52	5.7
91-57-6	2-Methylnaphthalene	130		52	9.2
91-20-3	Naphthalene	93		52	5.7
85-01-8	Phenanthrene	380	B	10	5.0
129-00-0	Pyrene	330		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	67		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\1DE29024.D
Lab Smp Id: 680-90622-B-30-A Client Smp ID: CV0828B-CS-SP
Inj Date : 29-MAY-2013 23:03
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90622-b-30-a
Misc Info : 680-90622-B-30-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\dFASTPAHi.m
Meth Date : 29-May-2013 17:42 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:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.380	Weight Extracted
M	24.385	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	6.283	6.277	(1.000)	3981782	40.0000	
*	7 Acenaphthene-d10	164	7.946	7.945	(1.000)	2163956	40.0000	
*	11 Phenanthrene-d10	188	9.203	9.197	(1.000)	3378609	40.0000	
$	15 o-Terphenyl	230	9.515	9.508	(1.034)	330061	6.66823	570
*	19 Chrysene-d12	240	11.571	11.559	(1.000)	3098533	40.0000	
*	24 Perylene-d12	264	13.486	13.456	(1.000)	3246882	40.0000	
	2 Naphthalene	128	6.301	6.294	(1.003)	106093	1.08046	93
	3 2-Methylnaphthalene	142	7.000	6.993	(1.114)	96731	1.54718	130
	4 1-Methylnaphthalene	142	7.088	7.087	(1.128)	106721	1.65807	140
	5 1,1'-Biphenyl	154	7.435	7.428	(0.936)	32936	0.45050	39
	6 Acenaphthylene	152	7.817	7.816	(0.984)	41705	0.46483	40
	8 Acenaphthene	154	7.975	7.969	(1.004)	15179	0.26669	23
	9 Dibenzofuran	168	8.122	8.116	(1.022)	51578	0.65722	56
	10 Fluorene	166	8.410	8.409	(1.058)	21025	0.32648	28

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.221	9.214	(1.002)	406305	4.44031	380
13 Anthracene	178	9.262	9.255	(1.006)	90864	1.02343	88
16 Fluoranthene	202	10.202	10.195	(1.109)	384075	4.10285	350
17 Pyrene	202	10.390	10.383	(0.898)	343308	3.78436	320
18 Benzo(a)anthracene	228	11.553	11.541	(0.998)	216100	2.34999	200
20 Chrysene	228	11.595	11.582	(1.002)	290319	3.50601	300
21 Benzo(b)fluoranthene	252	12.911	12.898	(0.957)	326812	4.01777	340(H)
22 Benzo(k)fluoranthene	252	12.940	12.939	(0.959)	101947	1.19683	100(H)
23 Benzo(a)pyrene	252	13.375	13.362	(0.992)	159278	2.07640	180
25 Indeno(1,2,3-cd)pyrene	276	15.126	15.101	(1.122)	79369	1.08847	94(M)
26 Dibenzo(a,h)anthracene	278	15.155	15.143	(1.124)	28917	0.44461	38
27 Benzo(g,h,i)perylene	276	15.596	15.577	(1.156)	75423	1.02303	88

QC Flag Legend

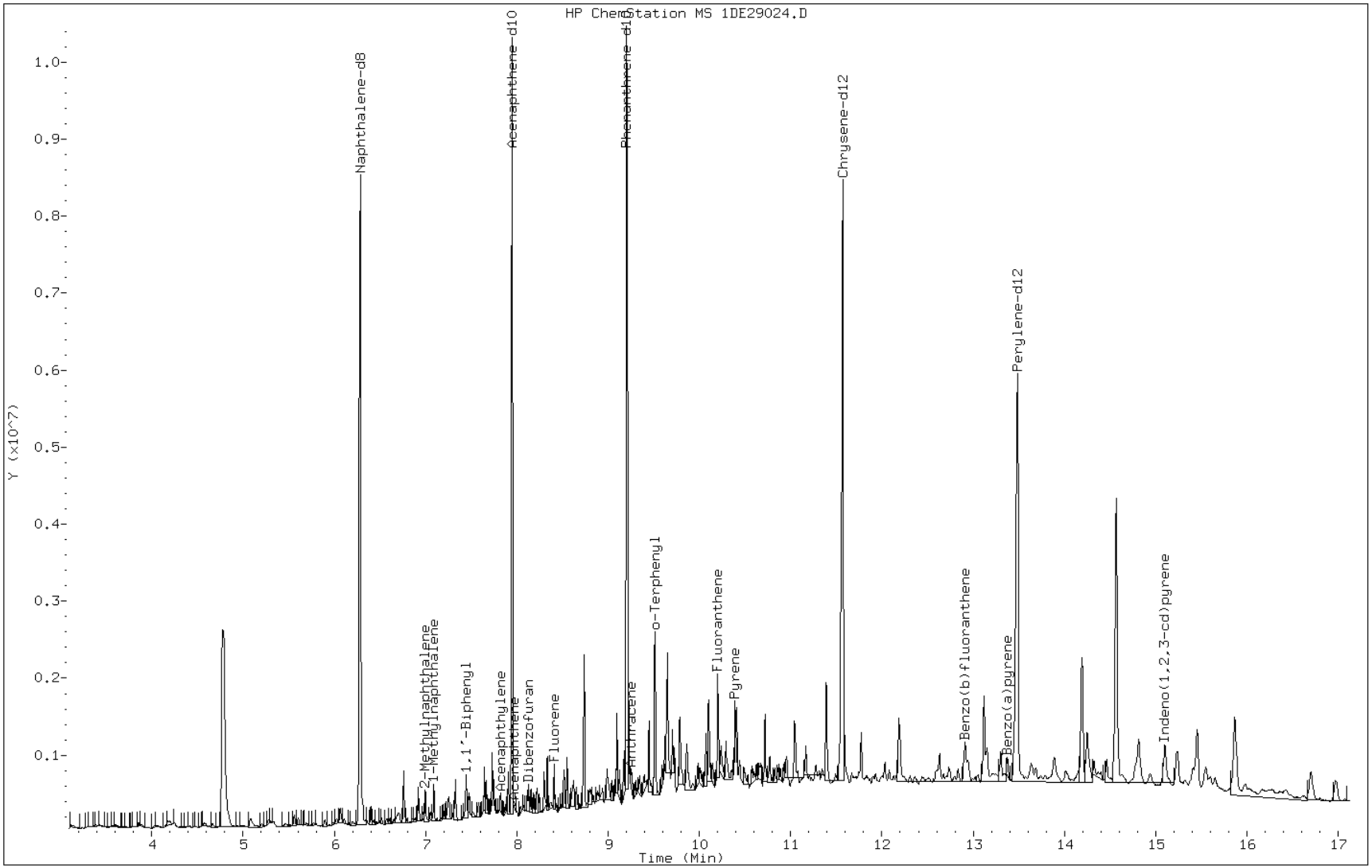
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC



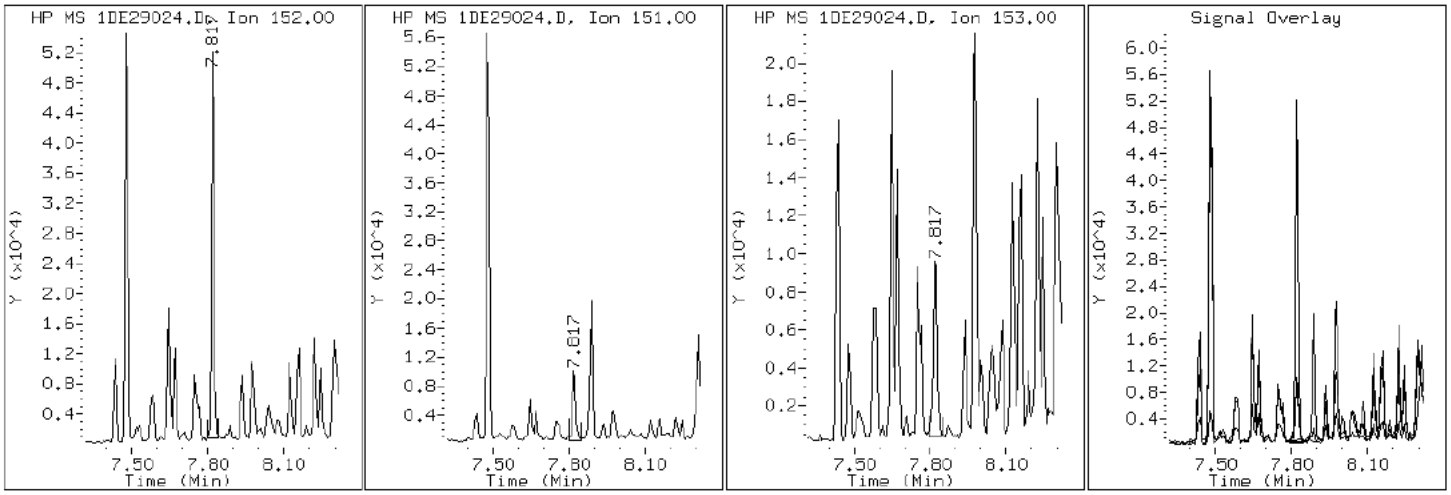
Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC

6 Acenaphthylene



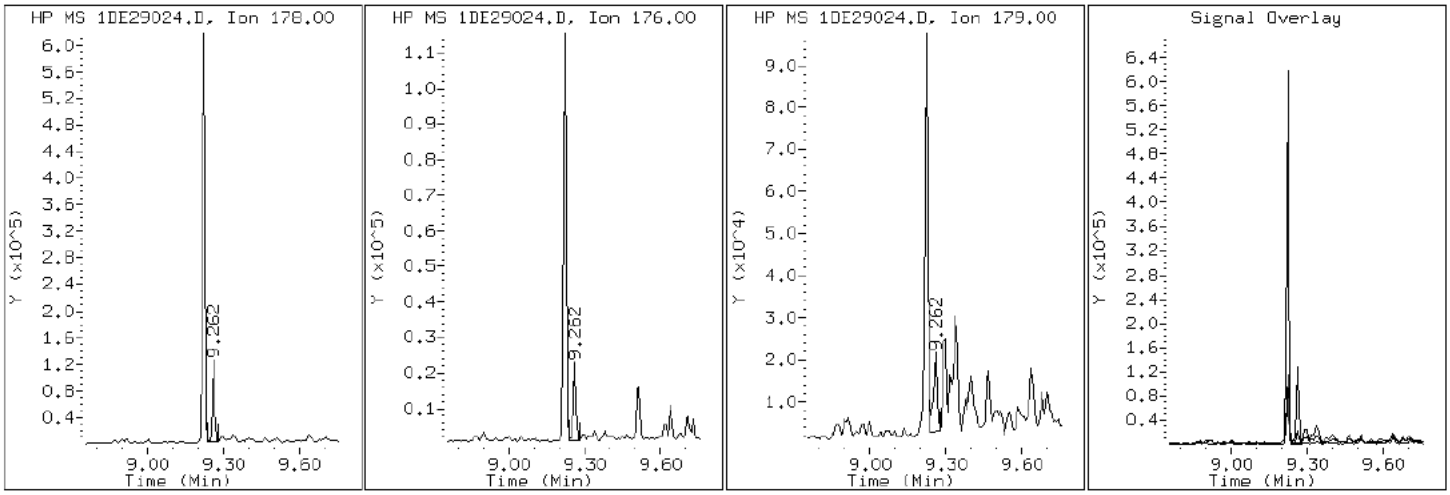
Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC

13 Anthracene



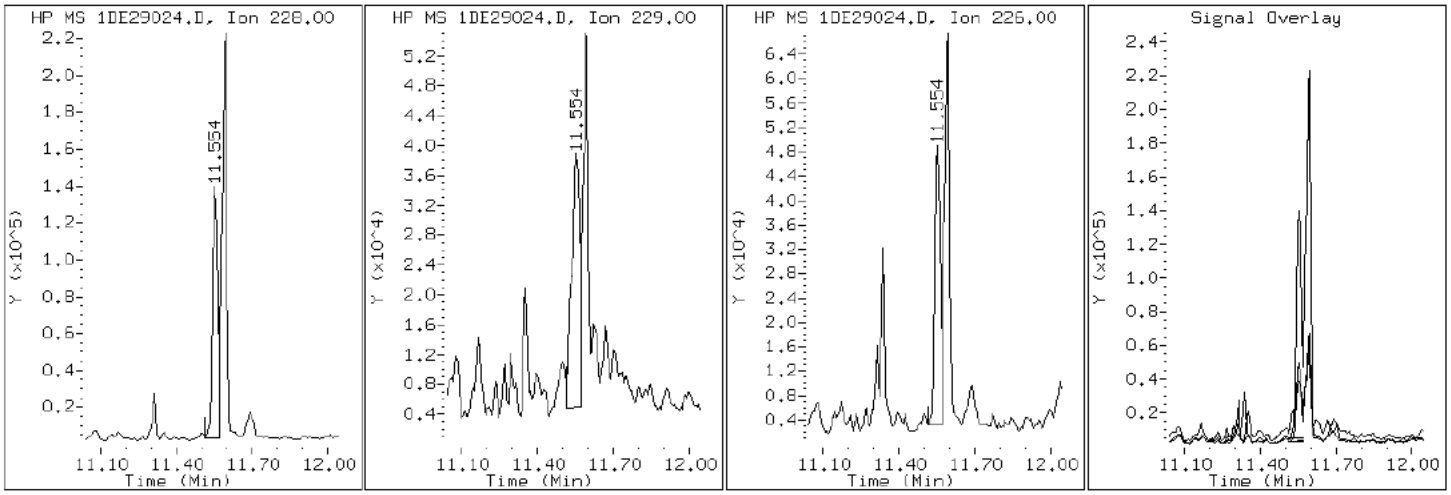
Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC

18 Benzo(a)anthracene



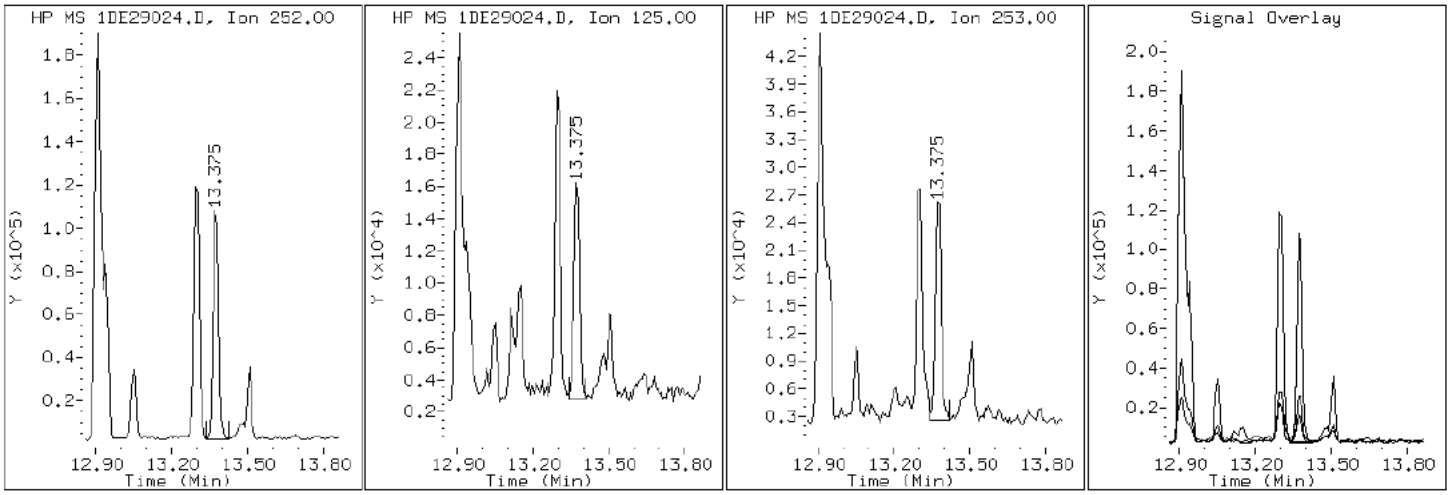
Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC

23 Benzo(a)pyrene



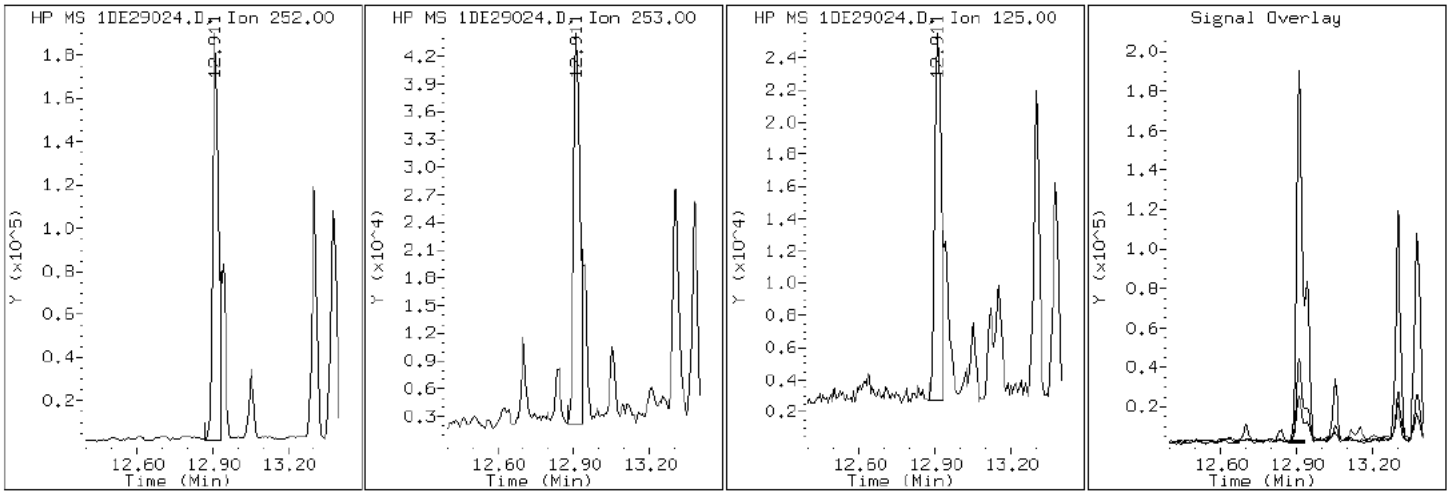
Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC

21 Benzo(b)fluoranthene



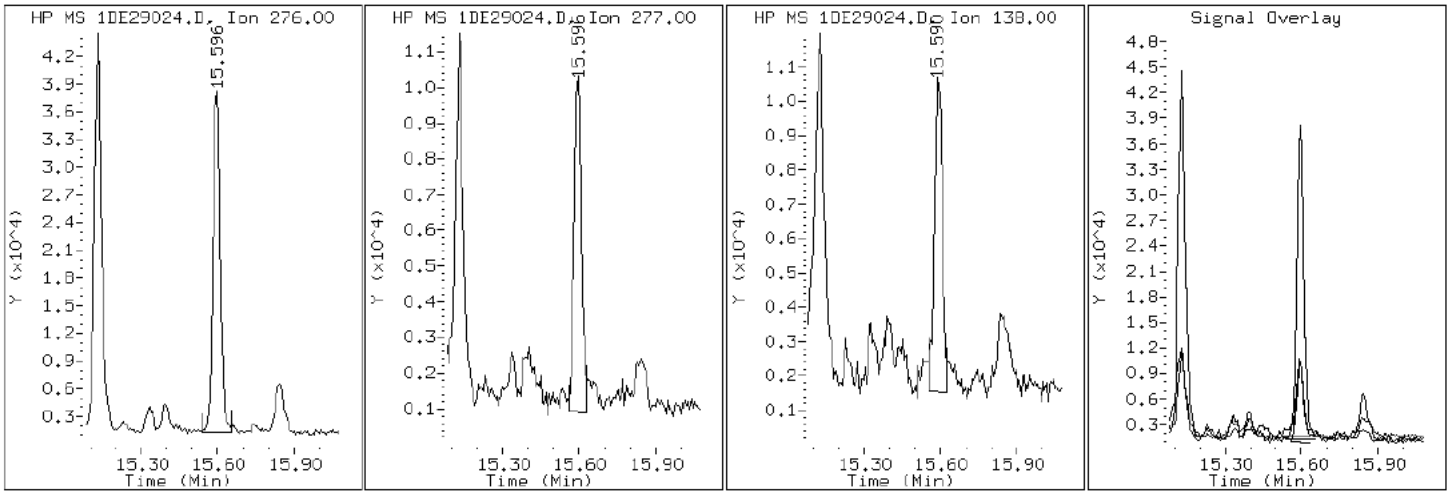
Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC

27 Benzo(g,h,i)perylene



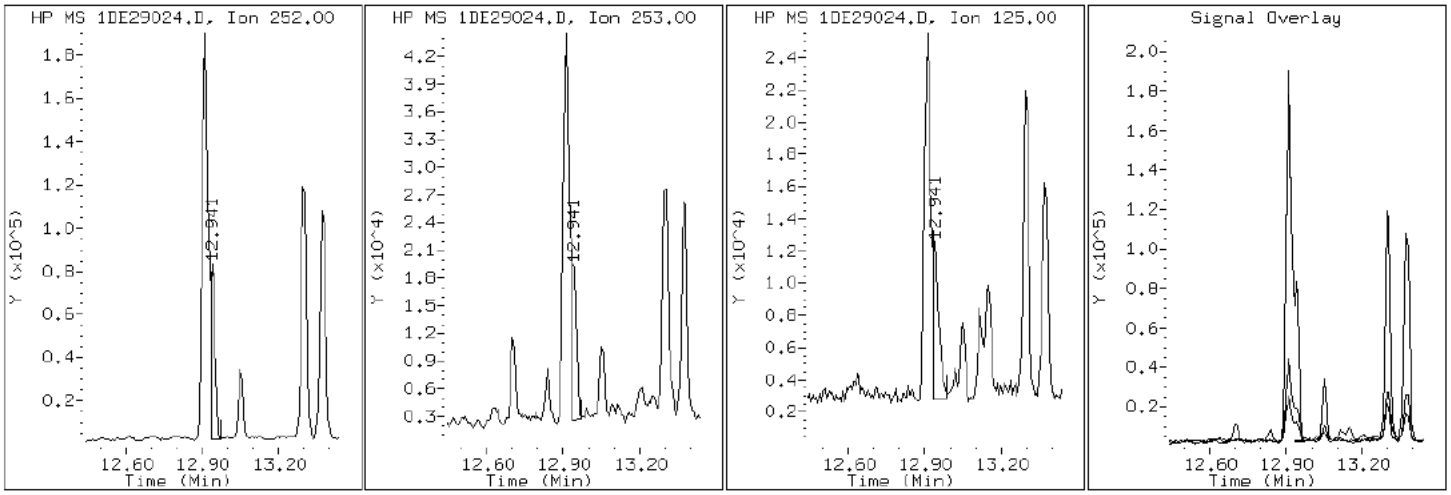
Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC

22 Benzo(k)fluoranthene



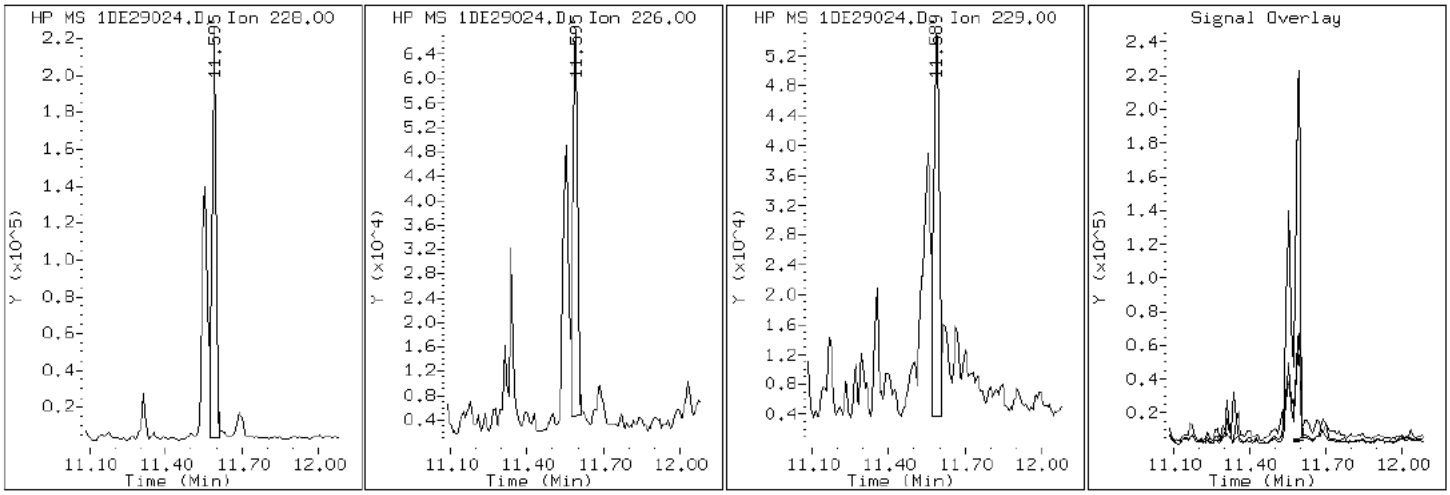
Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC

20 Chrysene



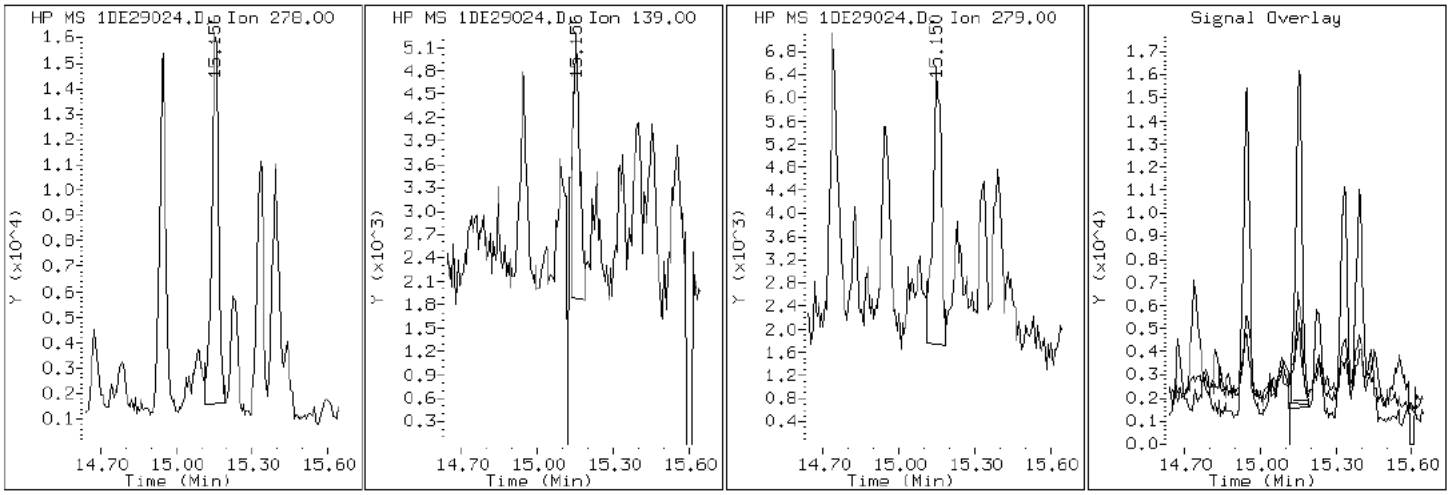
Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC

26 Dibenzo(a,h)anthracene



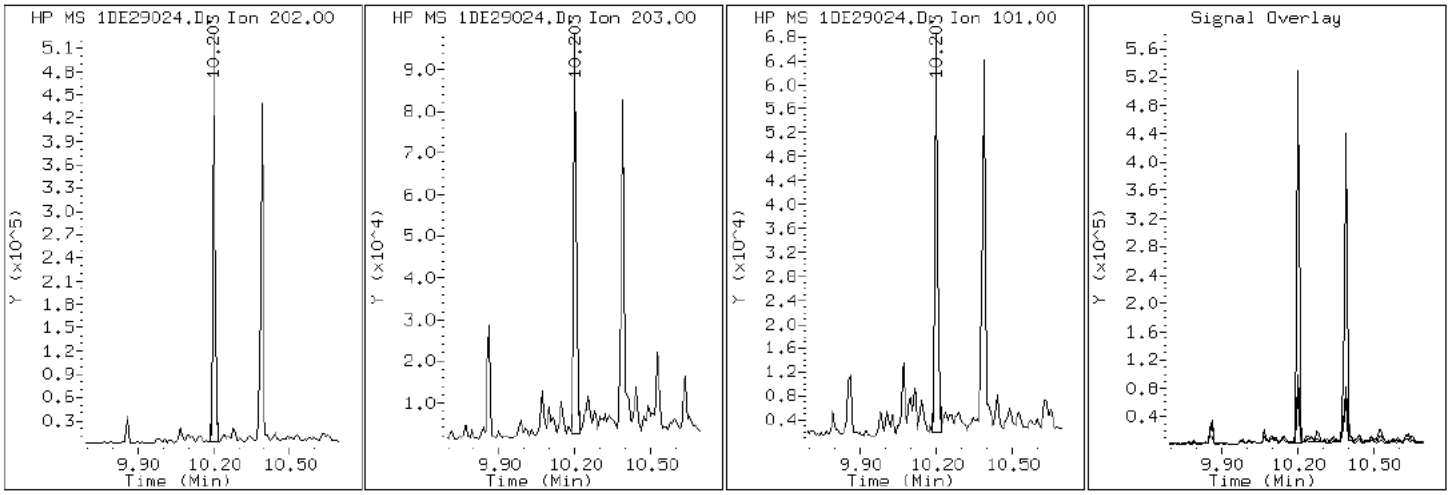
Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC

16 Fluoranthene



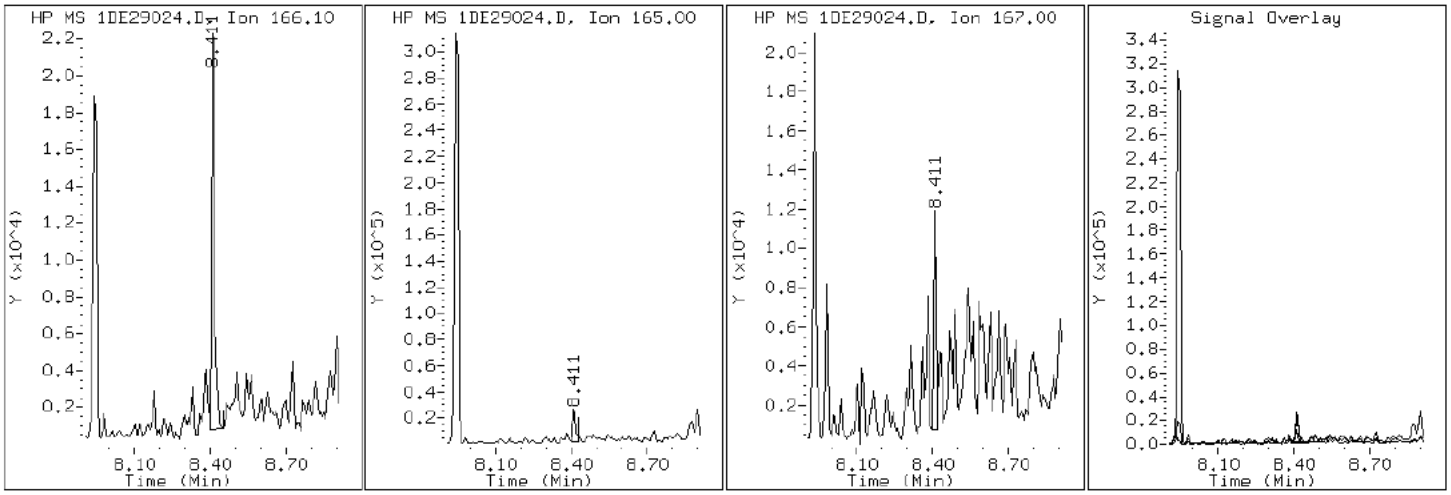
Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC

10 Fluorene



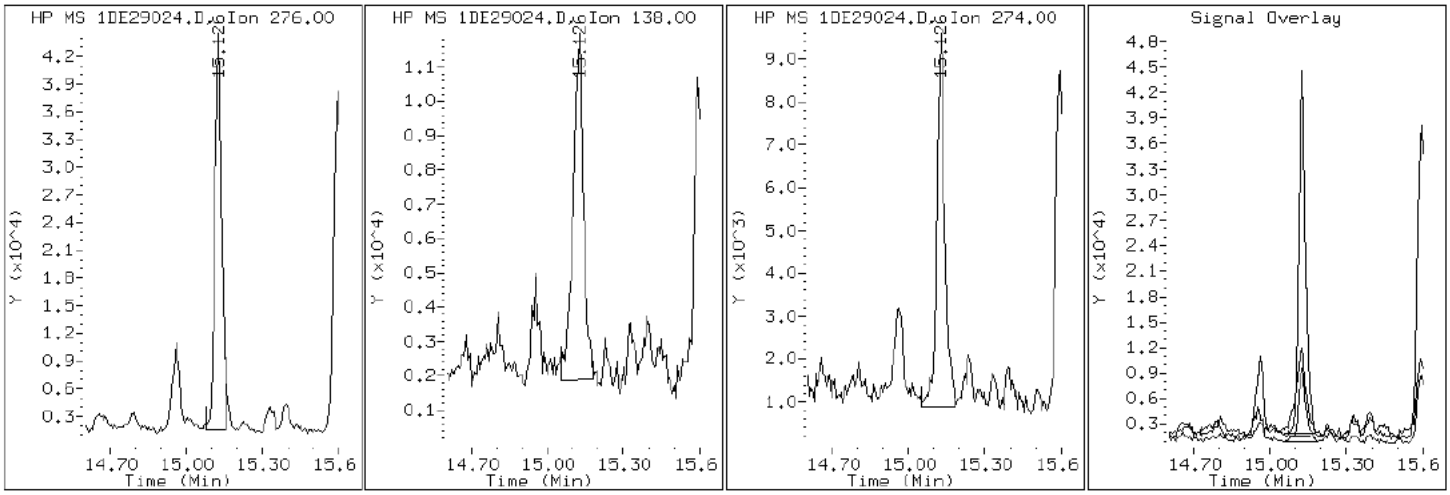
Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC

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



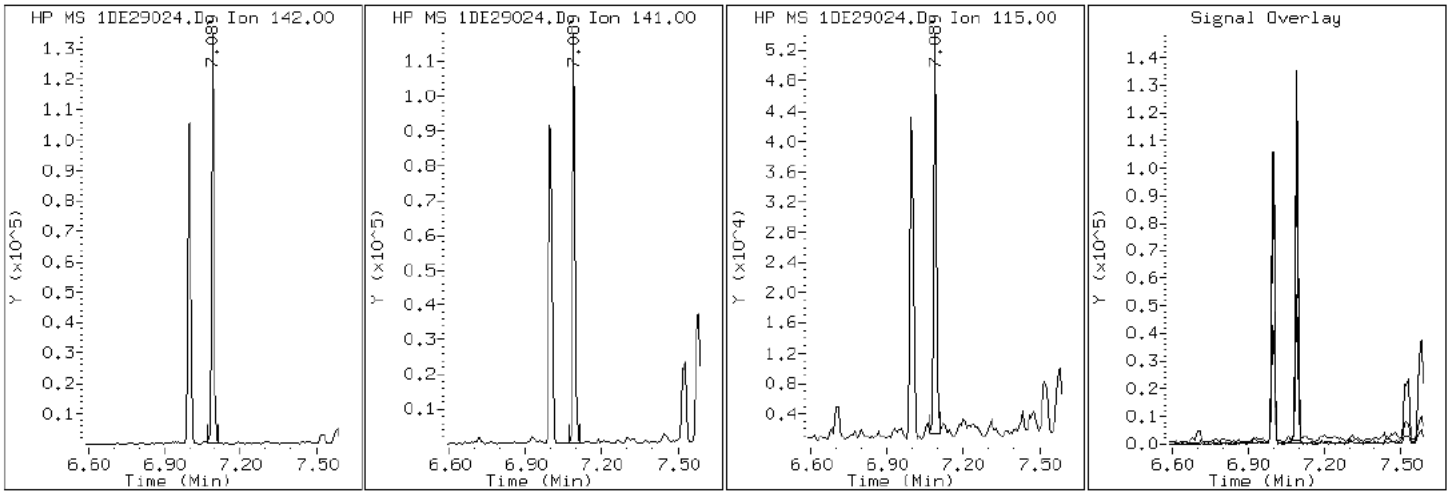
Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC

4 1-Methylnaphthalene



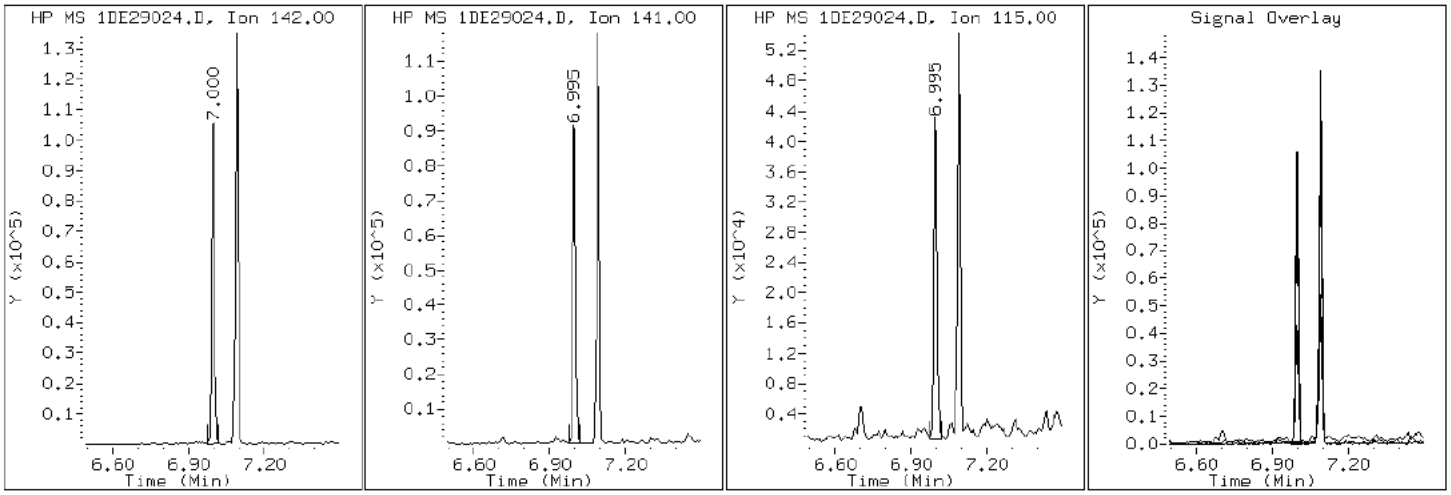
Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC

3 2-Methylnaphthalene



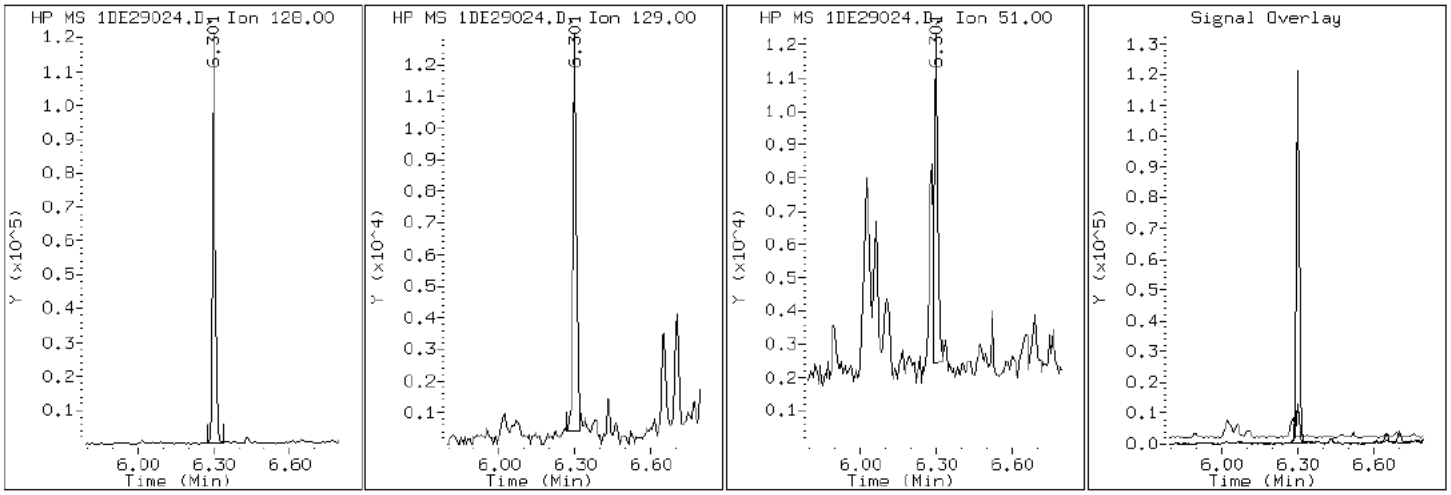
Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC

2 Naphthalene



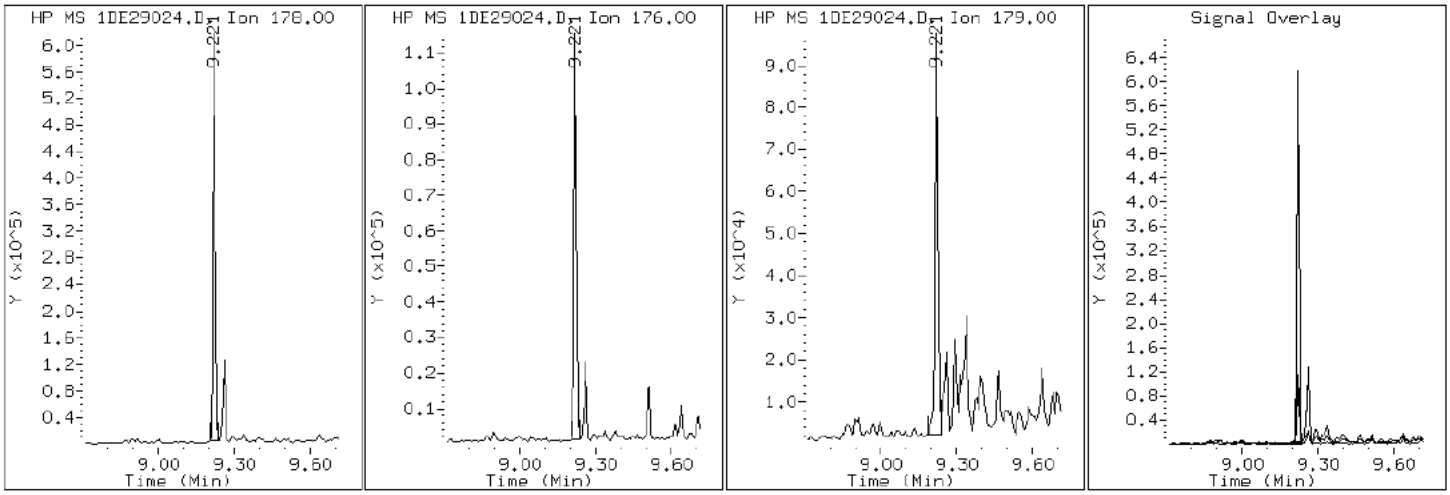
Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC

12 Phenanthrene



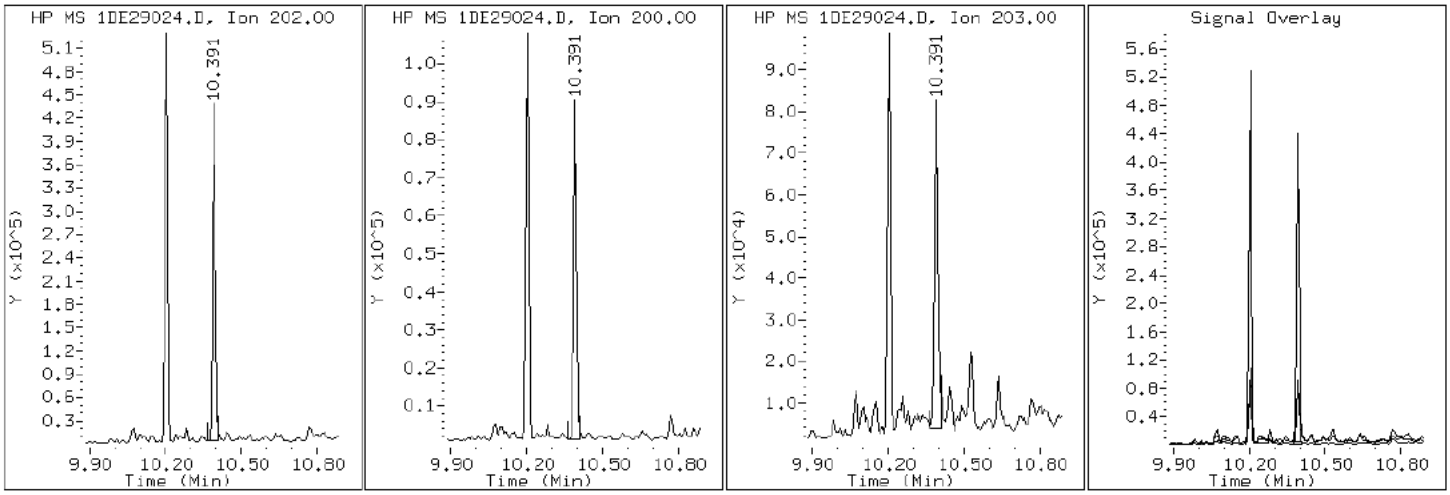
Data File: 1DE29024.D

Date: 29-MAY-2013 23:03

Client ID: CV0828B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-b-30-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DE29024.D
Inj. Date and Time: 29-MAY-2013 23:03
Instrument ID: BSMSD.i
Client ID: CV0828B-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

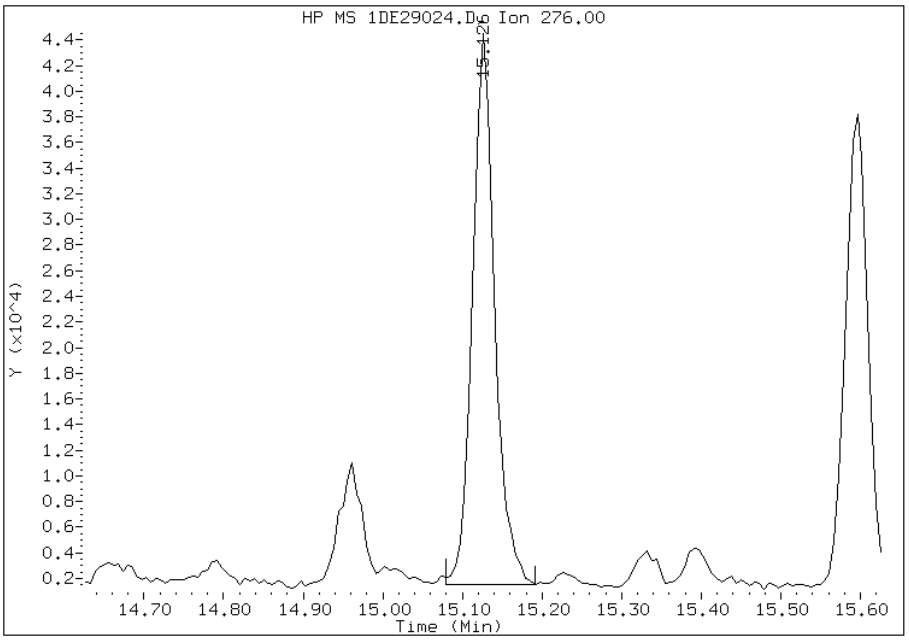
Processing Integration Results

RT: 15.13

Response: 82461

Amount: 1

Conc: 97



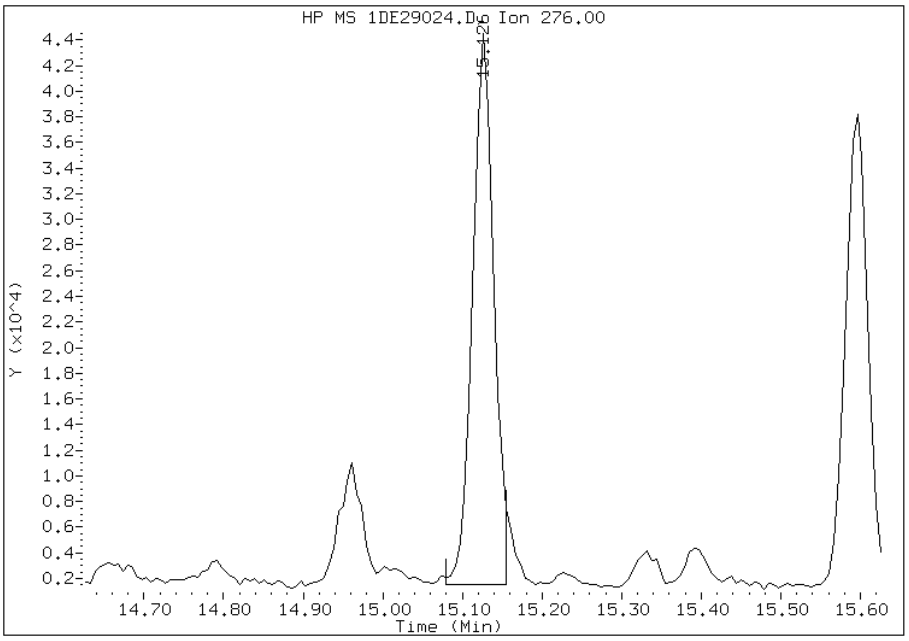
Manual Integration Results

RT: 15.13

Response: 79369

Amount: 1

Conc: 94



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 16:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV0828C-CS-SP | Lab Sample ID: 680-90622-31

Matrix: Solid | Lab File ID: 1DE29025.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 13:55

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 15.02(g) | Date Analyzed: 05/29/2013 23:25

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

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

% Moisture: 25.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137911 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	29	J	53	6.7
120-12-7	Anthracene	38		11	5.6
56-55-3	Benzo[a]anthracene	110		11	5.2
50-32-8	Benzo[a]pyrene	100		14	6.9
205-99-2	Benzo[b]fluoranthene	180		16	8.1
191-24-2	Benzo[g,h,i]perylene	63		27	5.9
207-08-9	Benzo[k]fluoranthene	57		11	4.8
218-01-9	Chrysene	160		12	6.0
53-70-3	Dibenz(a,h)anthracene	26	J	27	5.5
206-44-0	Fluoranthene	170		27	5.3
86-73-7	Fluorene	14	J	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	58		27	9.5
90-12-0	1-Methylnaphthalene	110		53	5.9
91-57-6	2-Methylnaphthalene	150		53	9.5
91-20-3	Naphthalene	170		53	5.9
85-01-8	Phenanthrene	210	B	11	5.2
129-00-0	Pyrene	160		27	4.9

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\1D052913.b\1DE29025.D
Lab Smp Id: 680-90622-A-31-A Client Smp ID: CV0828C-CS-SP
Inj Date : 29-MAY-2013 23:25
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90622-a-31-a
Misc Info : 680-90622-A-31-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\dFASTPAHi.m
Meth Date : 29-May-2013 17:42 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	25.240	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	6.278	6.277	(1.000)	3885611	40.0000	
*	7 Acenaphthene-d10	164	7.947	7.945	(1.000)	2094414	40.0000	
*	11 Phenanthrene-d10	188	9.204	9.197	(1.000)	3224245	40.0000	
$	15 o-Terphenyl	230	9.510	9.508	(1.033)	290850	6.15737	550
*	19 Chrysene-d12	240	11.572	11.559	(1.000)	3045340	40.0000	
*	24 Perylene-d12	264	13.488	13.456	(1.000)	3043104	40.0000	
	2 Naphthalene	128	6.302	6.294	(1.004)	179608	1.87441	170
	3 2-Methylnaphthalene	142	6.995	6.993	(1.114)	104704	1.71615	150
	4 1-Methylnaphthalene	142	7.089	7.087	(1.129)	77701	1.23708	110
	5 1,1'-Biphenyl	154	7.436	7.428	(0.936)	51121	0.72245	64
	6 Acenaphthylene	152	7.818	7.816	(0.984)	28066	0.32320	29
	9 Dibenzofuran	168	8.117	8.116	(1.021)	41539	0.54687	49
	10 Fluorene	166	8.411	8.409	(1.058)	9944	0.15954	14
	12 Phenanthrene	178	9.222	9.214	(1.002)	202981	2.32448	210

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.263	9.255	(1.006)	36191	0.42715	38
16 Fluoranthene	202	10.203	10.195	(1.109)	166278	1.86129	160
17 Pyrene	202	10.391	10.383	(0.898)	156405	1.75420	160
18 Benzo(a)anthracene	228	11.555	11.541	(0.998)	107772	1.19244	110
20 Chrysene	228	11.590	11.582	(1.002)	148023	1.81881	160
21 Benzo(b)fluoranthene	252	12.912	12.898	(0.957)	153007	2.00700	180
22 Benzo(k)fluoranthene	252	12.947	12.939	(0.960)	51140	0.64057	57(H)
23 Benzo(a)pyrene	252	13.376	13.362	(0.992)	78141	1.13381	100
25 Indeno(1,2,3-cd)pyrene	276	15.127	15.101	(1.122)	39743	0.65048	58(M)
26 Dibenzo(a,h)anthracene	278	15.162	15.143	(1.124)	15910	0.29072	26
27 Benzo(g,h,i)perylene	276	15.603	15.577	(1.157)	49003	0.70918	63

QC Flag Legend

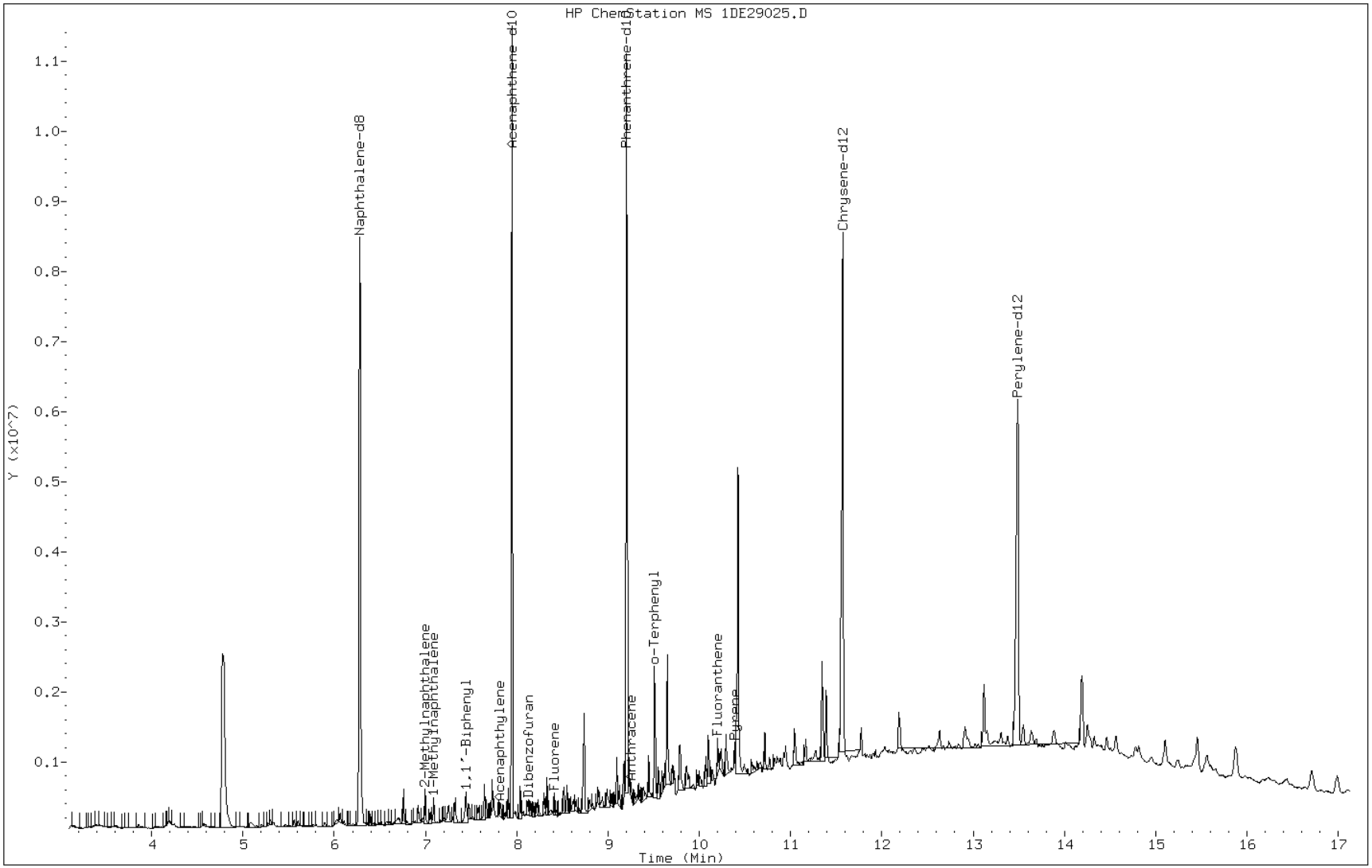
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC



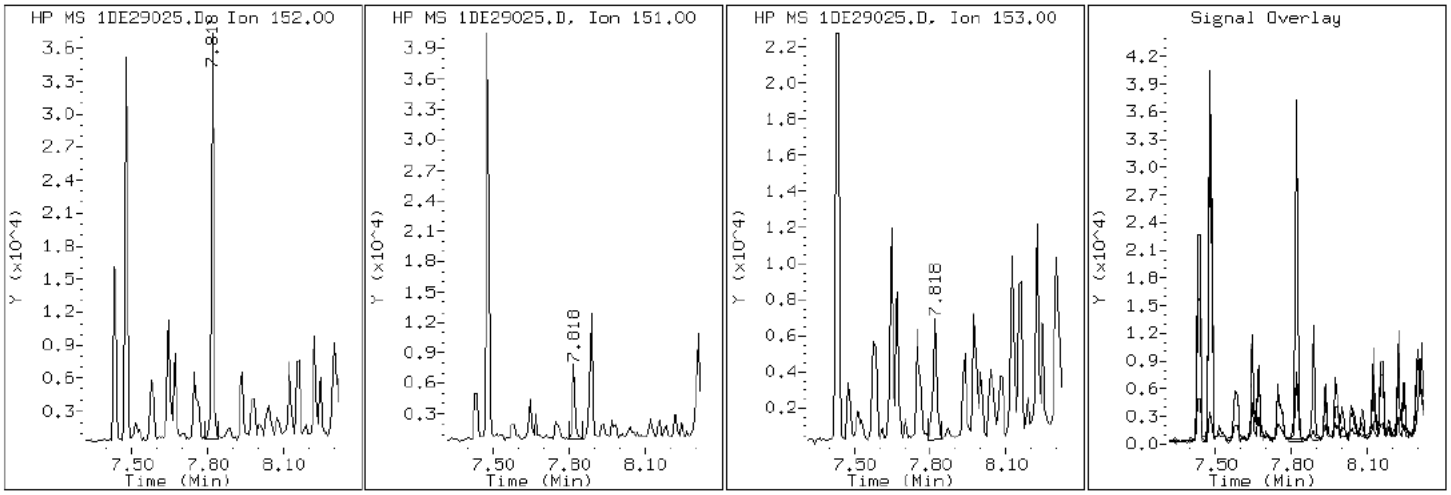
Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC

6 Acenaphthylene



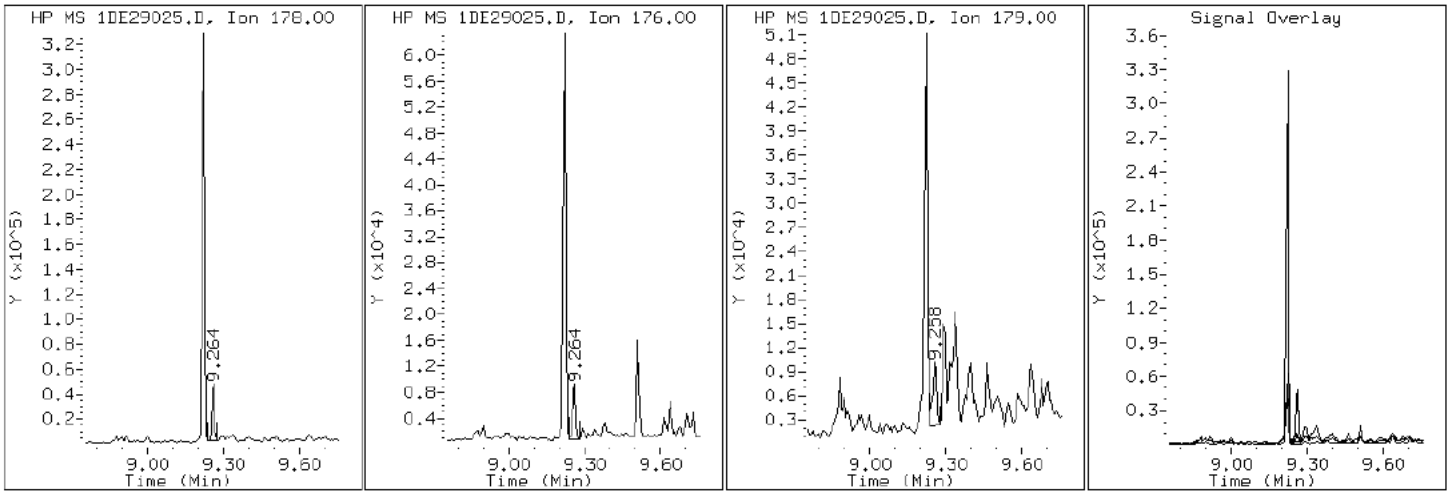
Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC

13 Anthracene



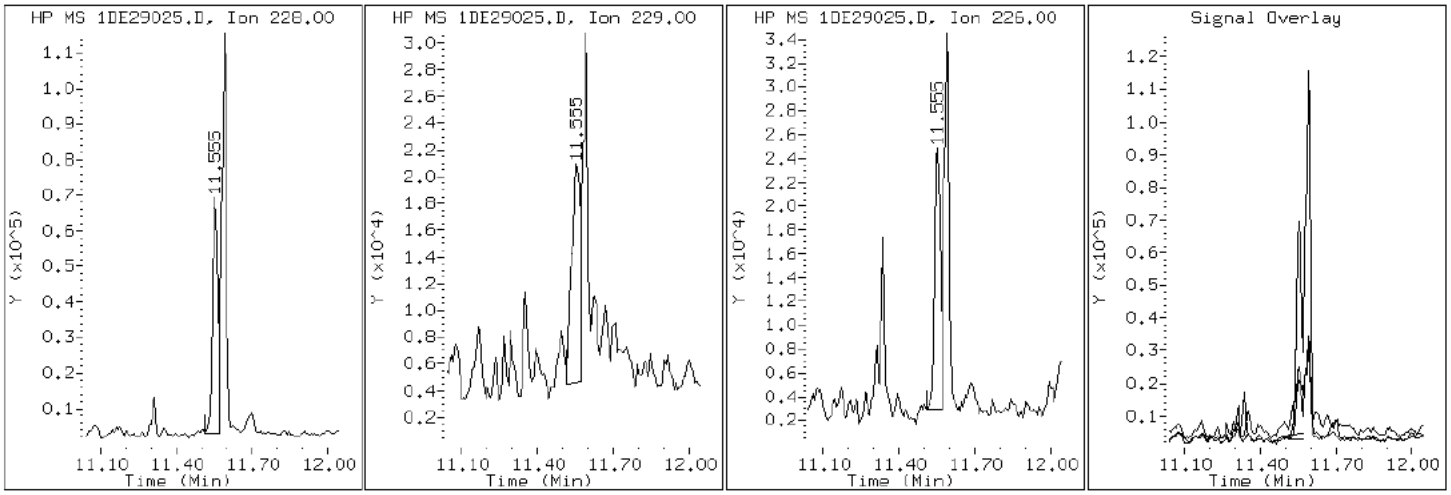
Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC

18 Benzo(a)anthracene



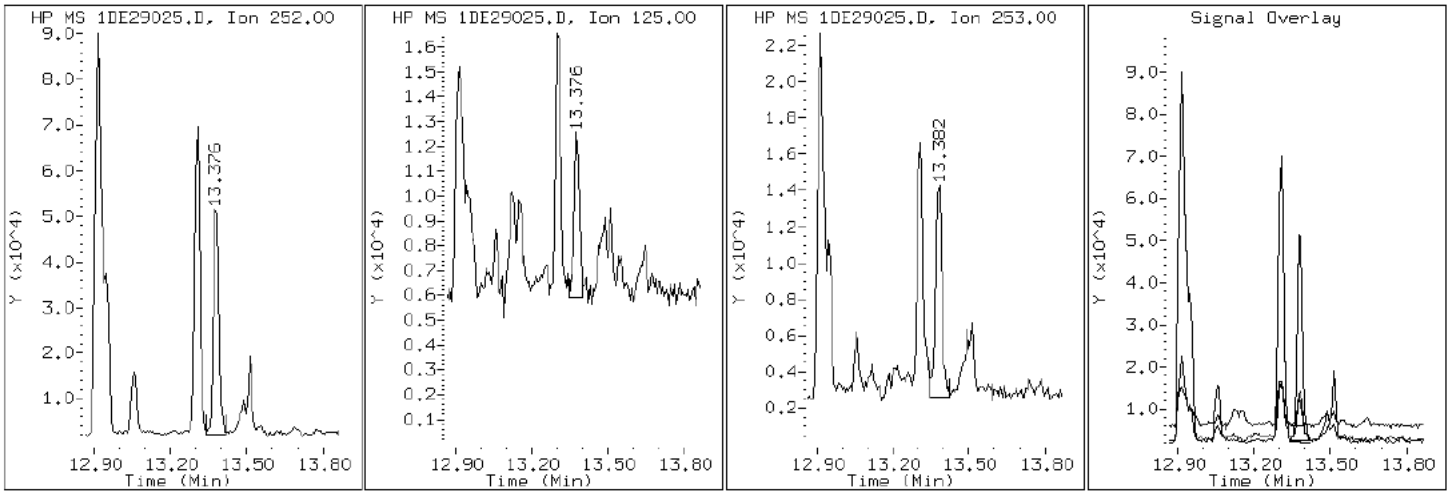
Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC

23 Benzo(a)pyrene



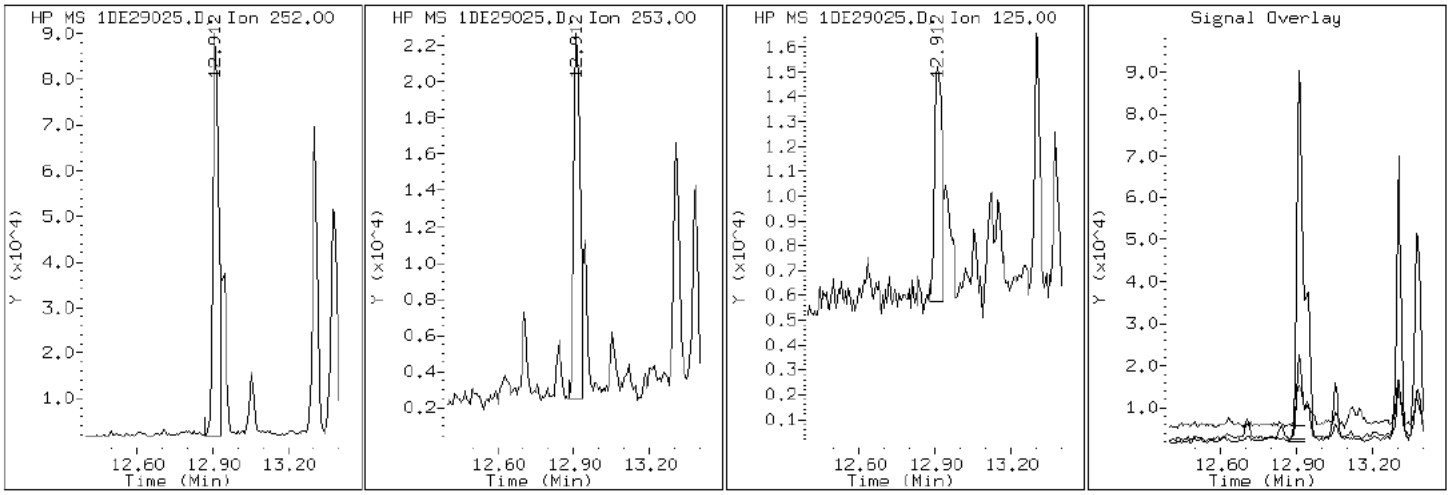
Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC

21 Benzo(b)fluoranthene



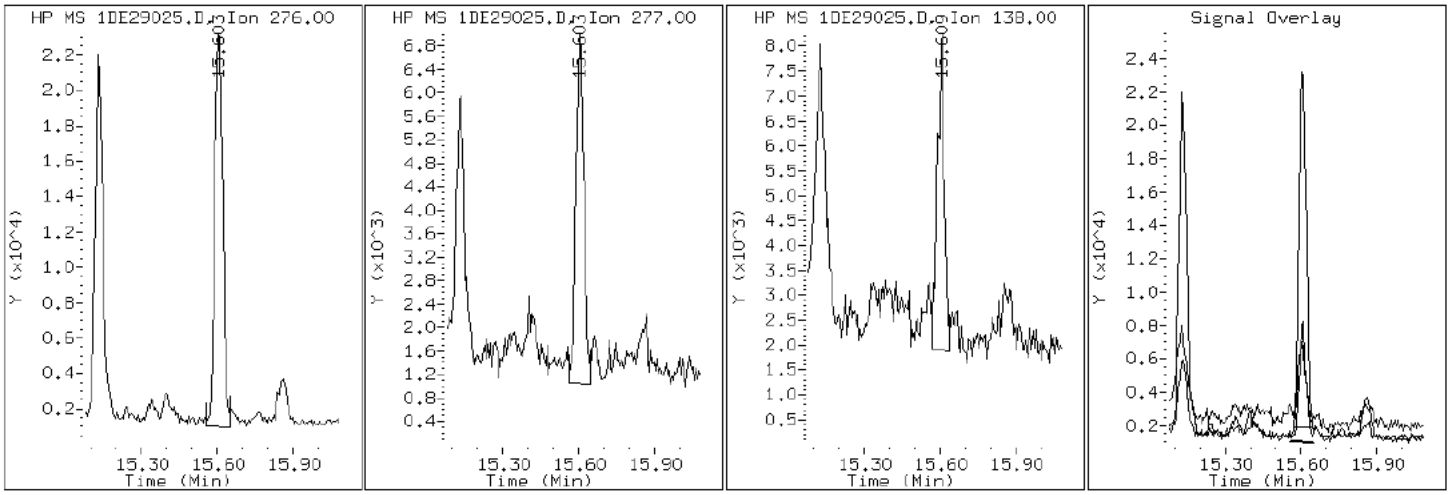
Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC

27 Benzo(g,h,i)perylene



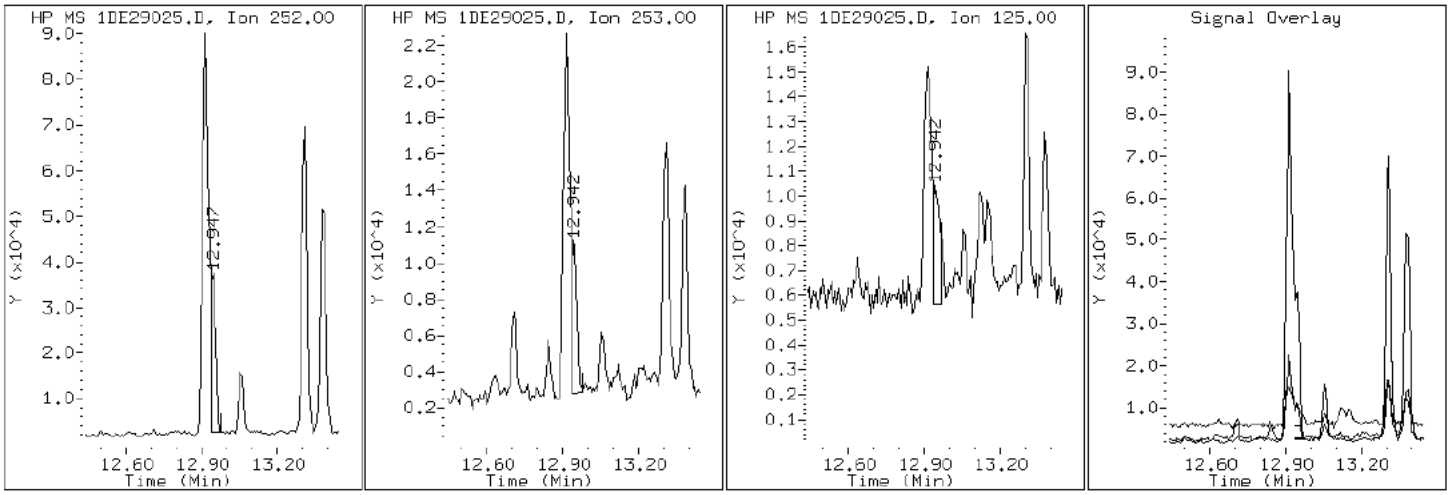
Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC

22 Benzo(k)fluoranthene



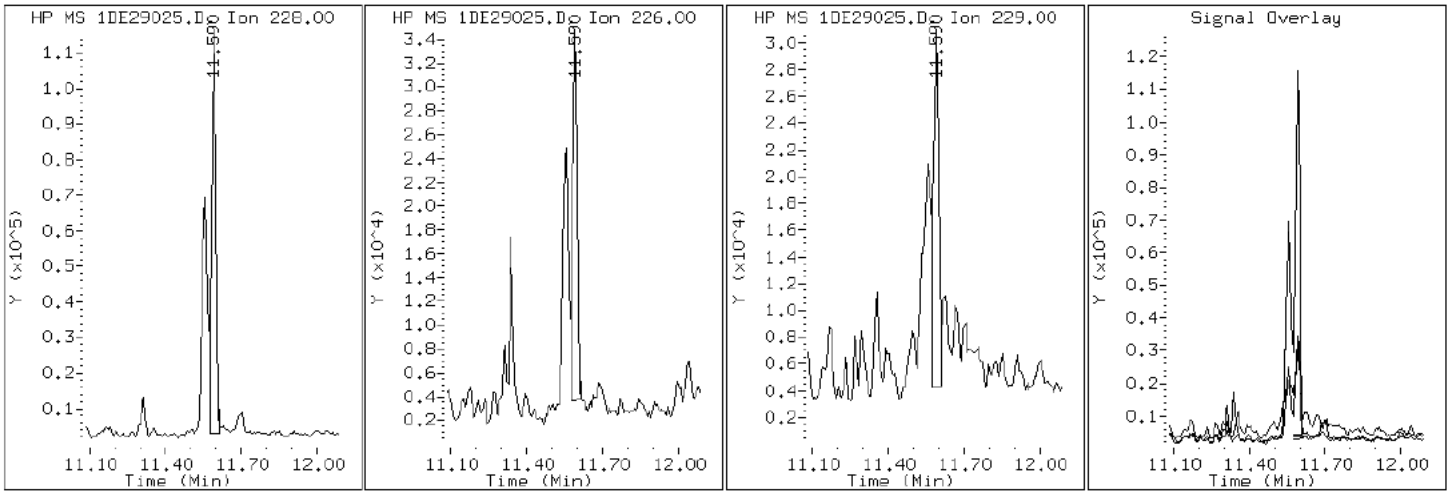
Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC

20 Chrysene



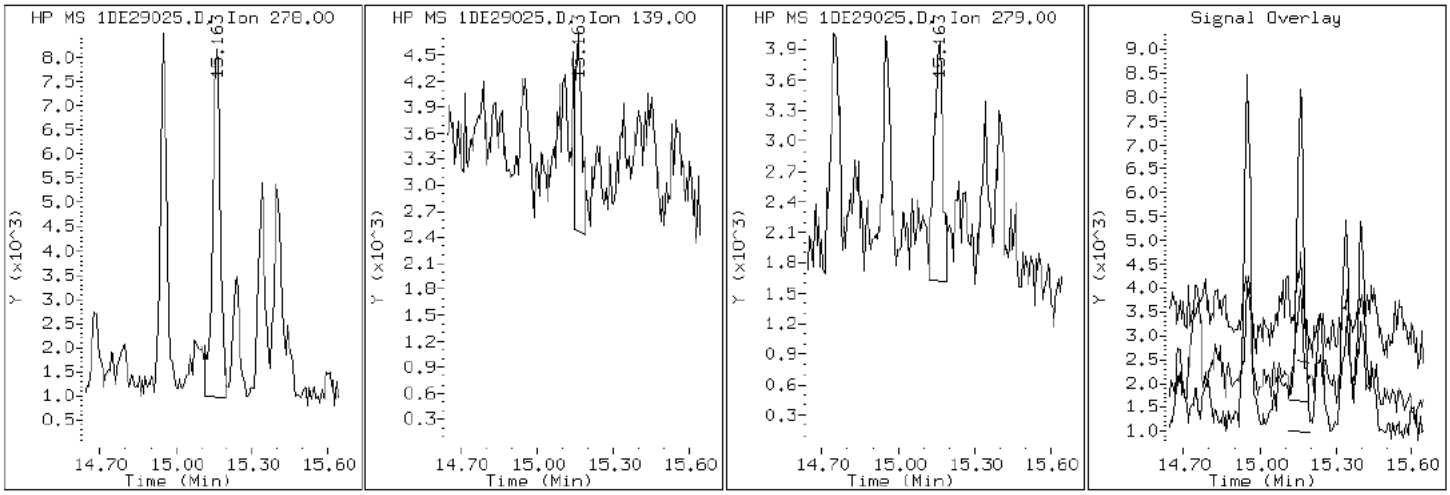
Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC

26 Dibenzo(a,h)anthracene



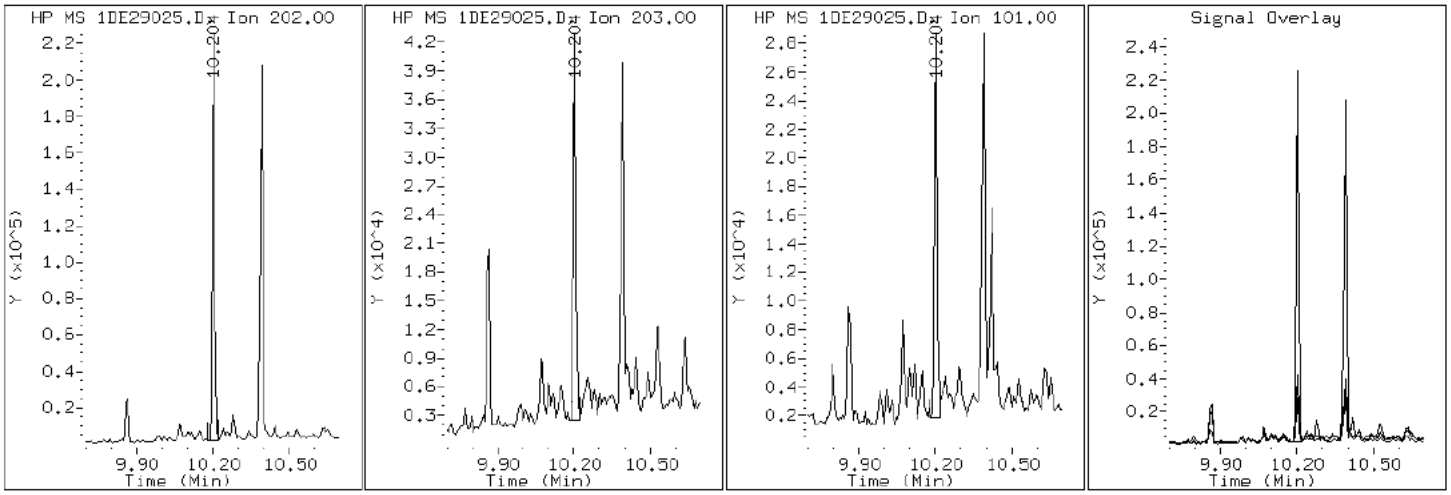
Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC

16 Fluoranthene



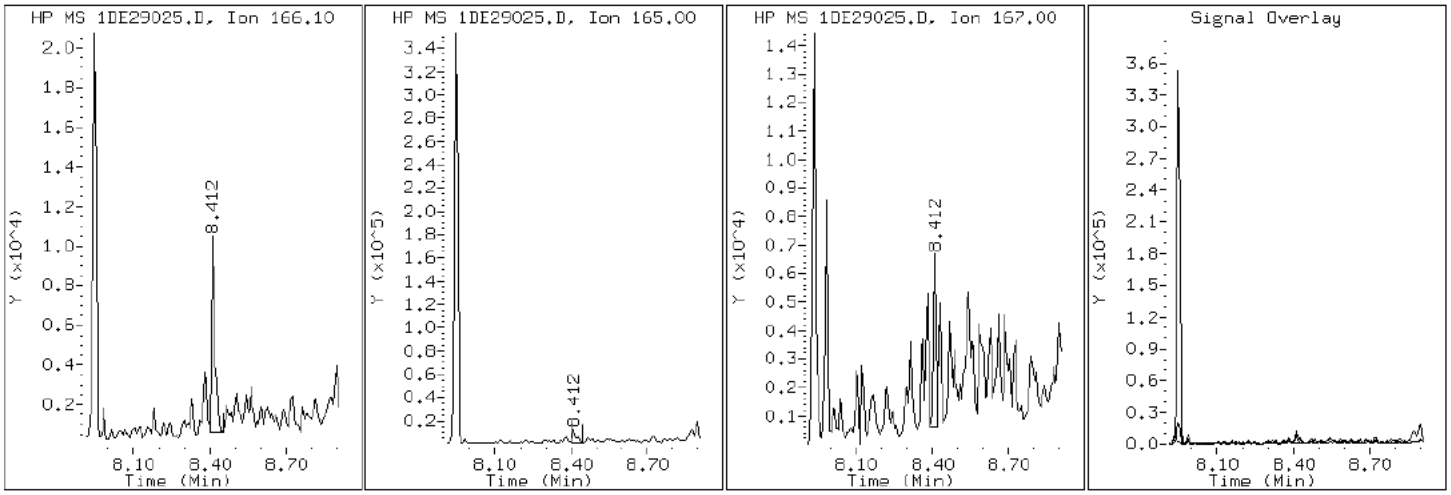
Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC

10 Fluorene



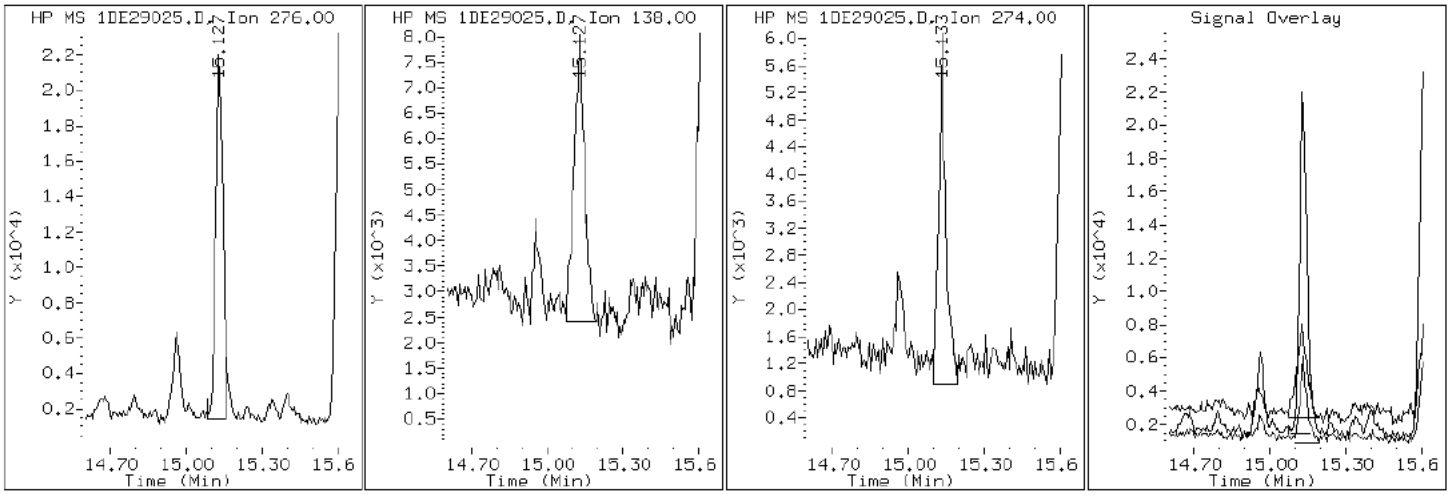
Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC

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



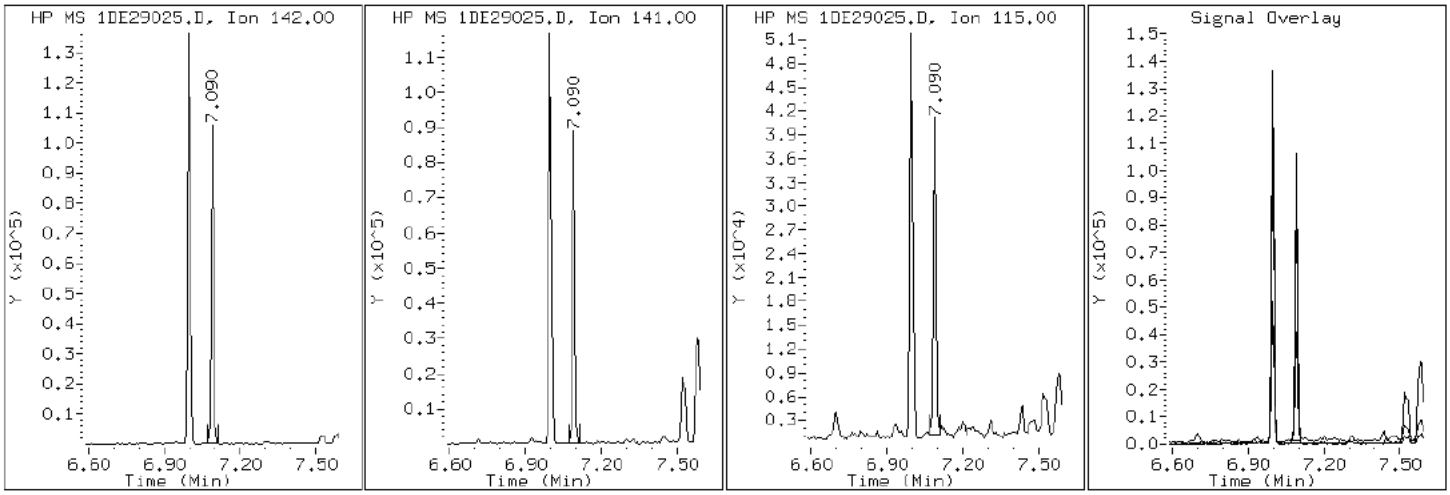
Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC

4 1-Methylnaphthalene



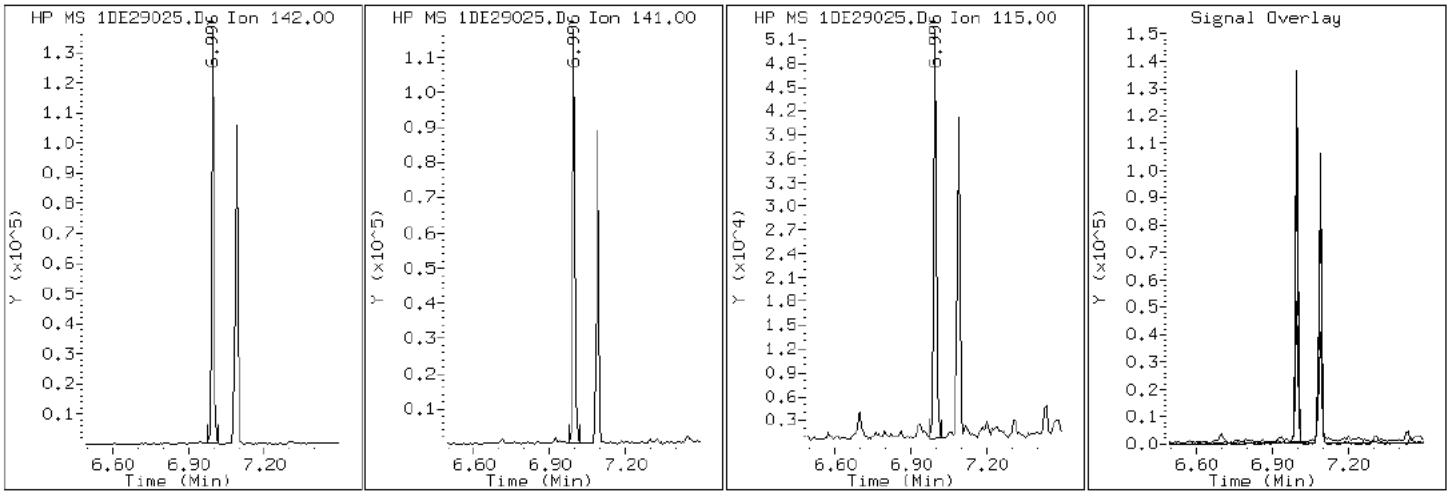
Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC

3 2-Methylnaphthalene



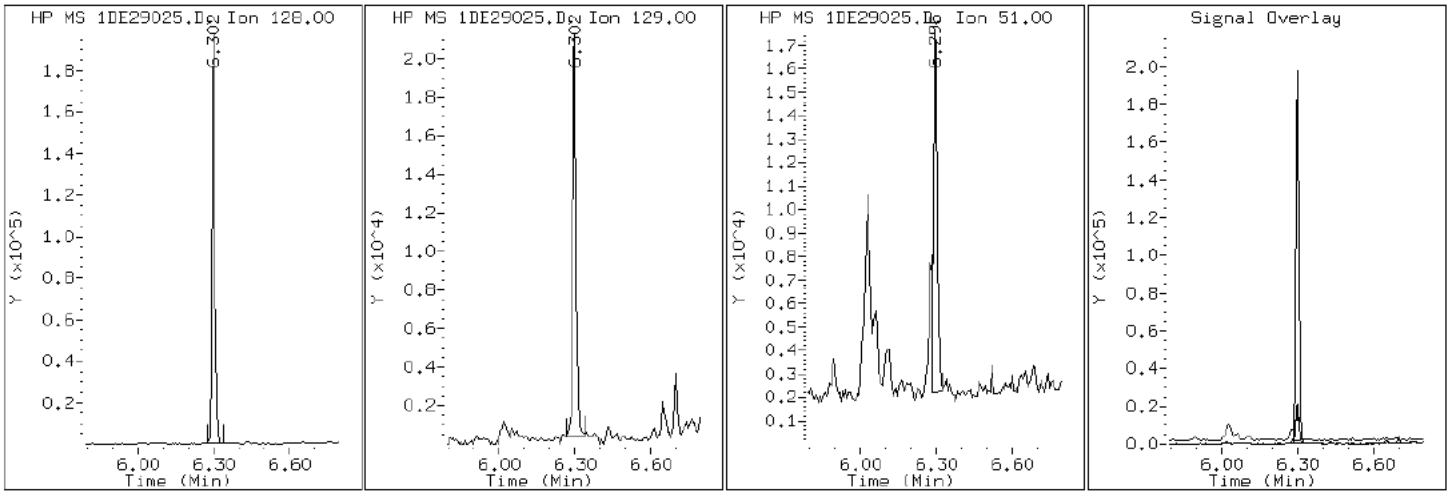
Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC

2 Naphthalene



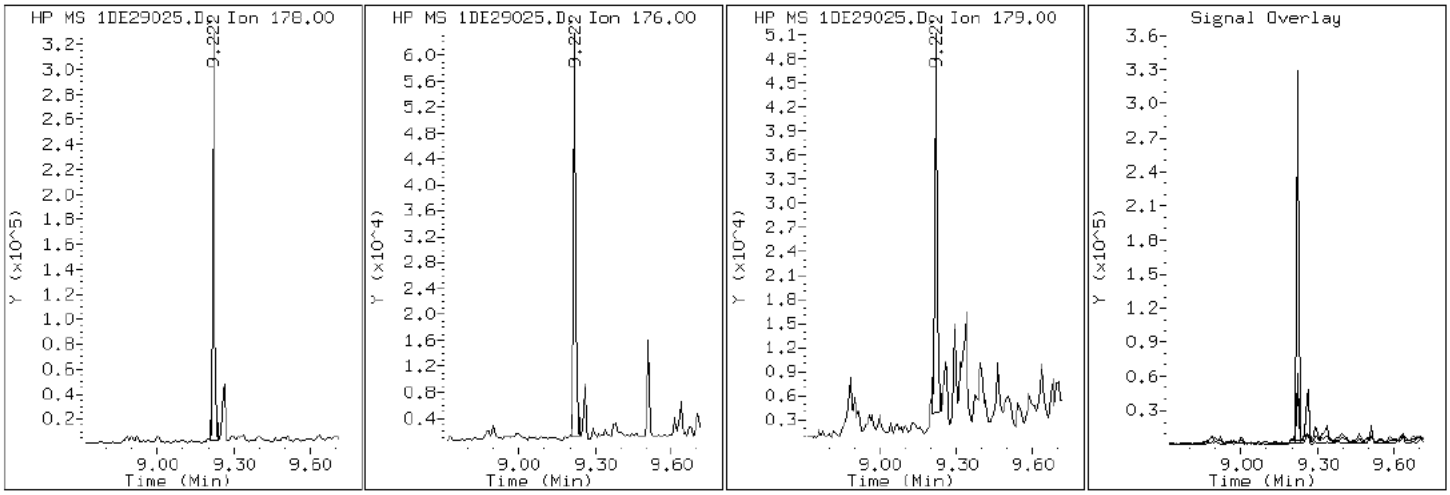
Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC

12 Phenanthrene



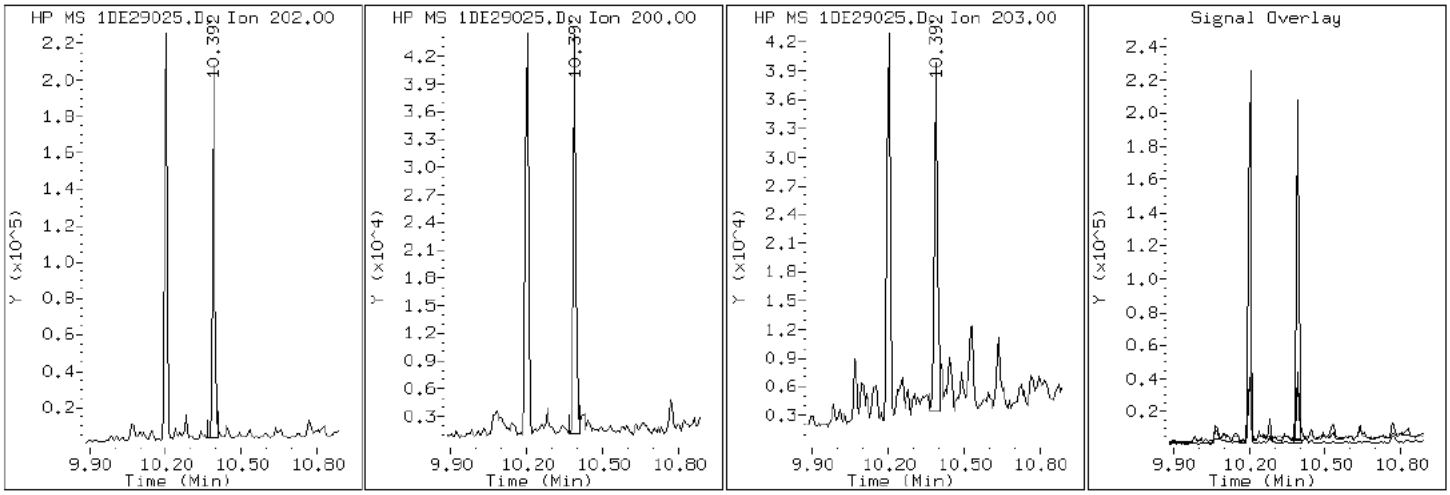
Data File: 1DE29025.D

Date: 29-MAY-2013 23:25

Client ID: CV0828C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-31-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DE29025.D
Inj. Date and Time: 29-MAY-2013 23:25
Instrument ID: BSMSD.i
Client ID: CV0828C-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

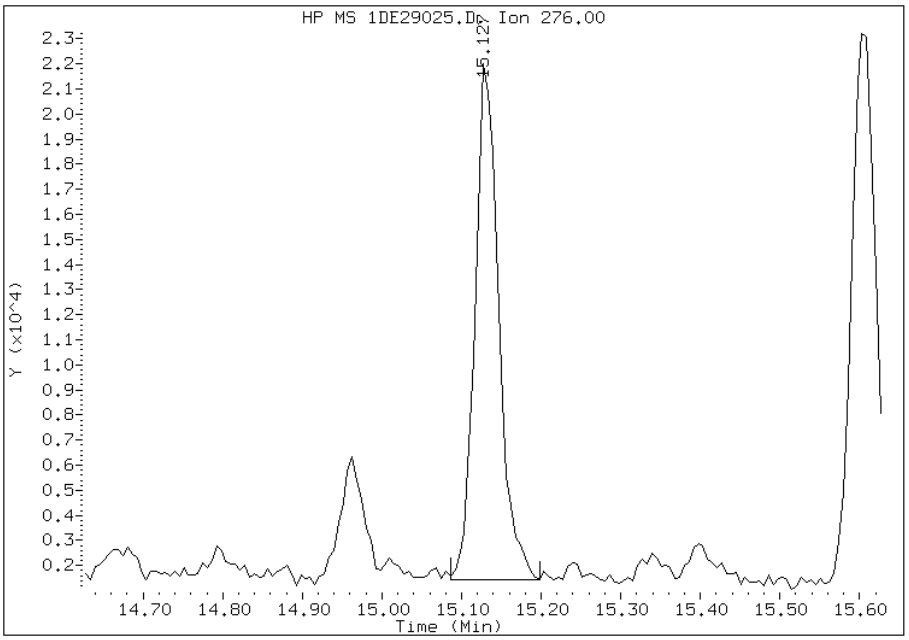
Processing Integration Results

RT: 15.13

Response: 42335

Amount: 1

Conc: 61



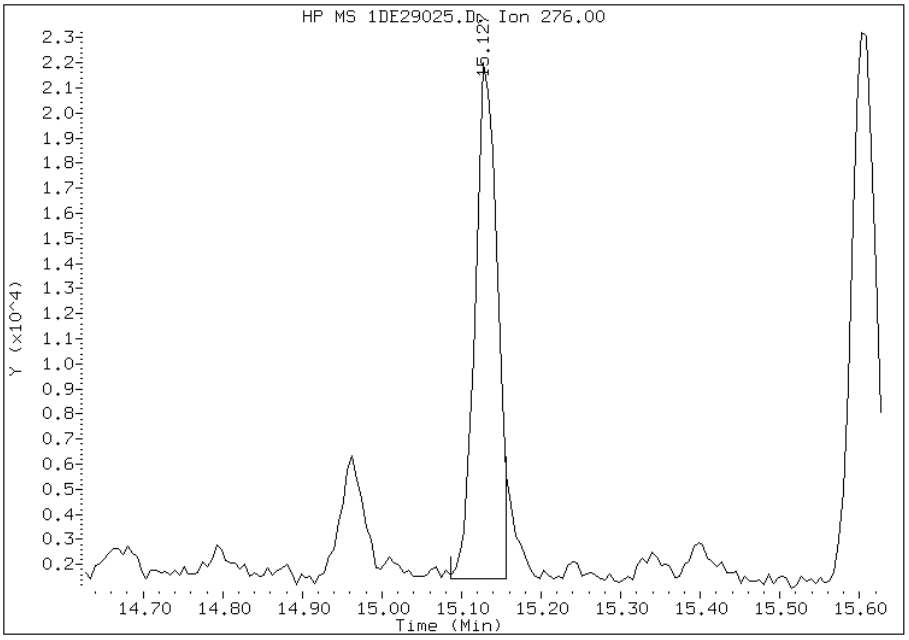
Manual Integration Results

RT: 15.13

Response: 39743

Amount: 1

Conc: 58



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 16:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV0838A-CS-SP | Lab Sample ID: 680-90622-32

Matrix: Solid | Lab File ID: 1DE29026.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 14:30

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 14.98(g) | Date Analyzed: 05/29/2013 23:48

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

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

% Moisture: 18.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137911 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	74		49	6.1
120-12-7	Anthracene	84		10	5.1
56-55-3	Benzo[a]anthracene	220		9.8	4.8
50-32-8	Benzo[a]pyrene	190		13	6.4
205-99-2	Benzo[b]fluoranthene	320		15	7.5
191-24-2	Benzo[g,h,i]perylene	91		24	5.4
207-08-9	Benzo[k]fluoranthene	92		9.8	4.4
218-01-9	Chrysene	300		11	5.5
53-70-3	Dibenz(a,h)anthracene	37		24	5.0
206-44-0	Fluoranthene	340		24	4.9
86-73-7	Fluorene	29		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	93		24	8.7
90-12-0	1-Methylnaphthalene	150		49	5.4
91-57-6	2-Methylnaphthalene	160		49	8.7
91-20-3	Naphthalene	130		49	5.4
85-01-8	Phenanthrene	320	B	9.8	4.8
129-00-0	Pyrene	340		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\1DE29026.D
Lab Smp Id: 680-90622-A-32-A Client Smp ID: CV0838A-CS-SP
Inj Date : 29-MAY-2013 23:48
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90622-a-32-a
Misc Info : 680-90622-A-32-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\dFASTPAHi.m
Meth Date : 29-May-2013 17:42 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:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	18.040	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.283	6.277	(1.000)	4036894	40.0000	
* 7	Acenaphthene-d10	164	7.951	7.945	(1.000)	2178293	40.0000	
* 11	Phenanthrene-d10	188	9.209	9.197	(1.000)	3339353	40.0000	
$ 15	o-Terphenyl	230	9.514	9.508	(1.033)	320863	6.55861	530
* 19	Chrysene-d12	240	11.571	11.559	(1.000)	3141036	40.0000	
* 24	Perylene-d12	264	13.492	13.456	(1.000)	3127550	40.0000	
2	Naphthalene	128	6.300	6.294	(1.003)	163293	1.64028	130
3	2-Methylnaphthalene	142	7.000	6.993	(1.114)	123095	1.94198	160
4	1-Methylnaphthalene	142	7.094	7.087	(1.129)	119929	1.83783	150
5	1,1'-Biphenyl	154	7.434	7.428	(0.935)	23886	0.32456	26
6	Acenaphthylene	152	7.822	7.816	(0.984)	81605	0.90356	74
8	Acenaphthene	154	7.975	7.969	(1.003)	11388	0.19877	16
9	Dibenzofuran	168	8.122	8.116	(1.021)	52573	0.66549	54
10	Fluorene	166	8.416	8.409	(1.058)	23291	0.35929	29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.226	9.214	(1.002)	351790	3.88973	320
13 Anthracene	178	9.262	9.255	(1.006)	90385	1.03000	84
16 Fluoranthene	202	10.202	10.195	(1.108)	388883	4.20304	340
17 Pyrene	202	10.396	10.383	(0.898)	388997	4.22998	340
18 Benzo(a)anthracene	228	11.553	11.541	(0.998)	248556	2.66636	220
20 Chrysene	228	11.594	11.582	(1.002)	311938	3.71611	300
21 Benzo(b)fluoranthene	252	12.916	12.898	(0.957)	307120	3.91974	320(H)
22 Benzo(k)fluoranthene	252	12.946	12.939	(0.960)	92633	1.12898	92(H)
23 Benzo(a)pyrene	252	13.380	13.362	(0.992)	175864	2.36569	190
25 Indeno(1,2,3-cd)pyrene	276	15.125	15.101	(1.121)	81078	1.14538	93(M)
26 Dibenzo(a,h)anthracene	278	15.155	15.143	(1.123)	28692	0.45582	37
27 Benzo(g,h,i)perylene	276	15.595	15.577	(1.156)	79082	1.11359	91

QC Flag Legend

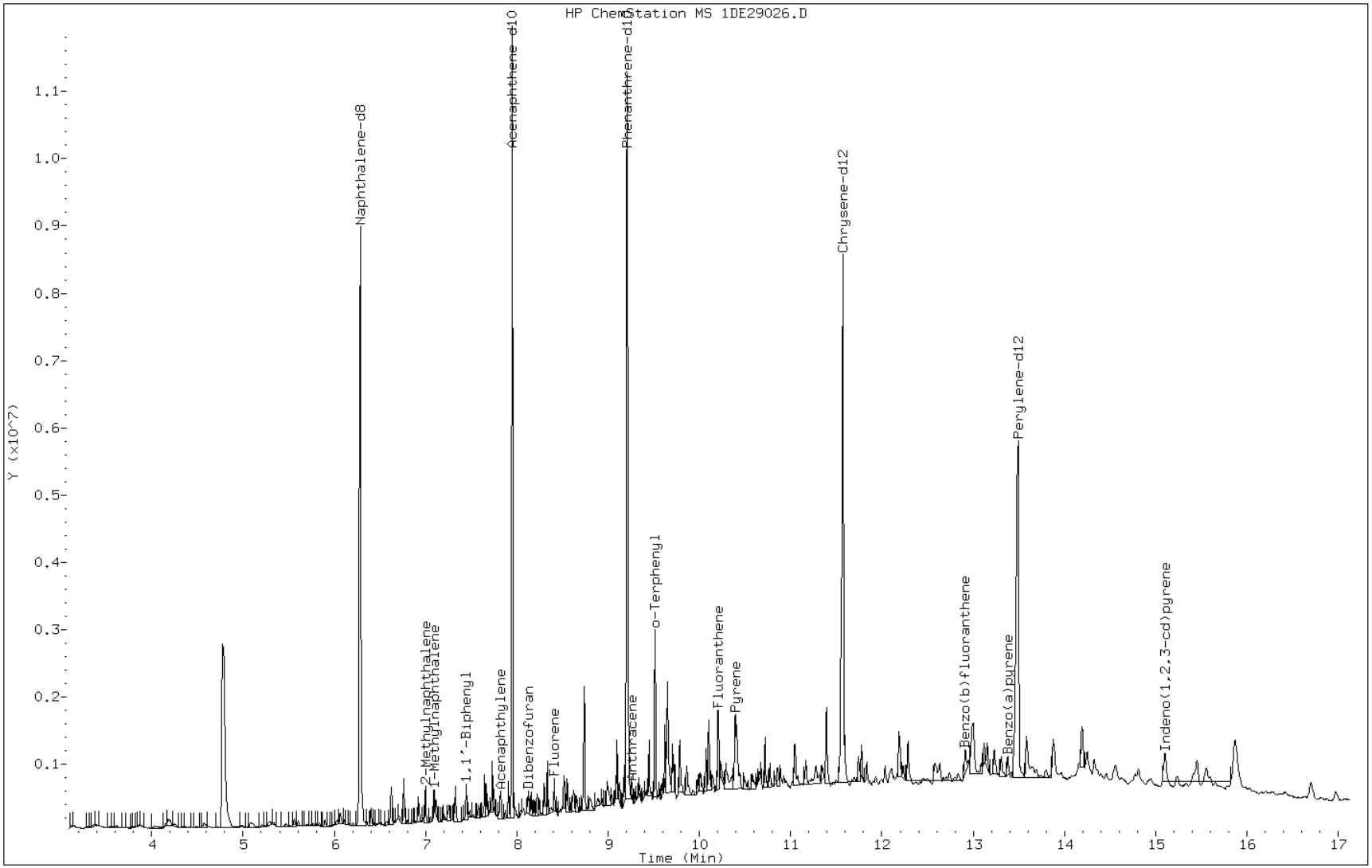
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC



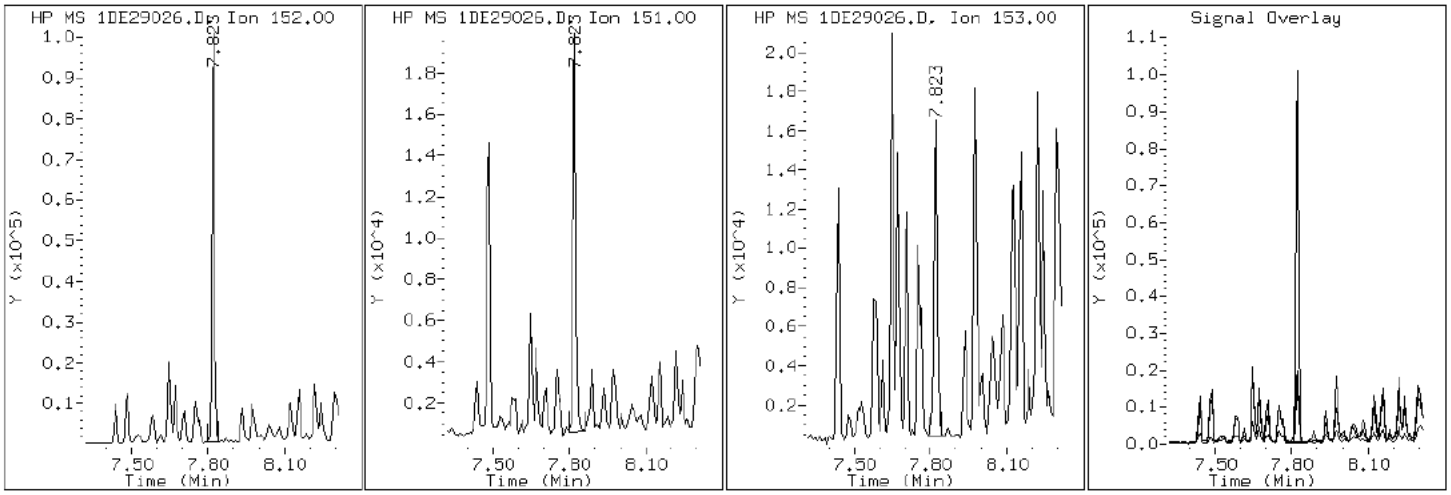
Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC

6 Acenaphthylene



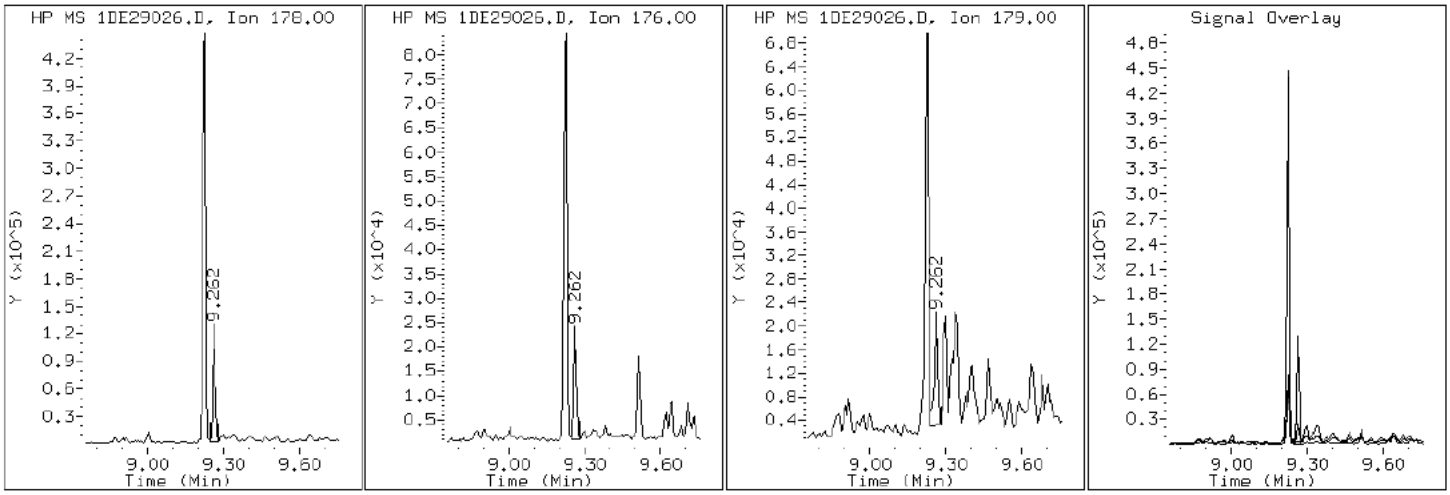
Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC

13 Anthracene



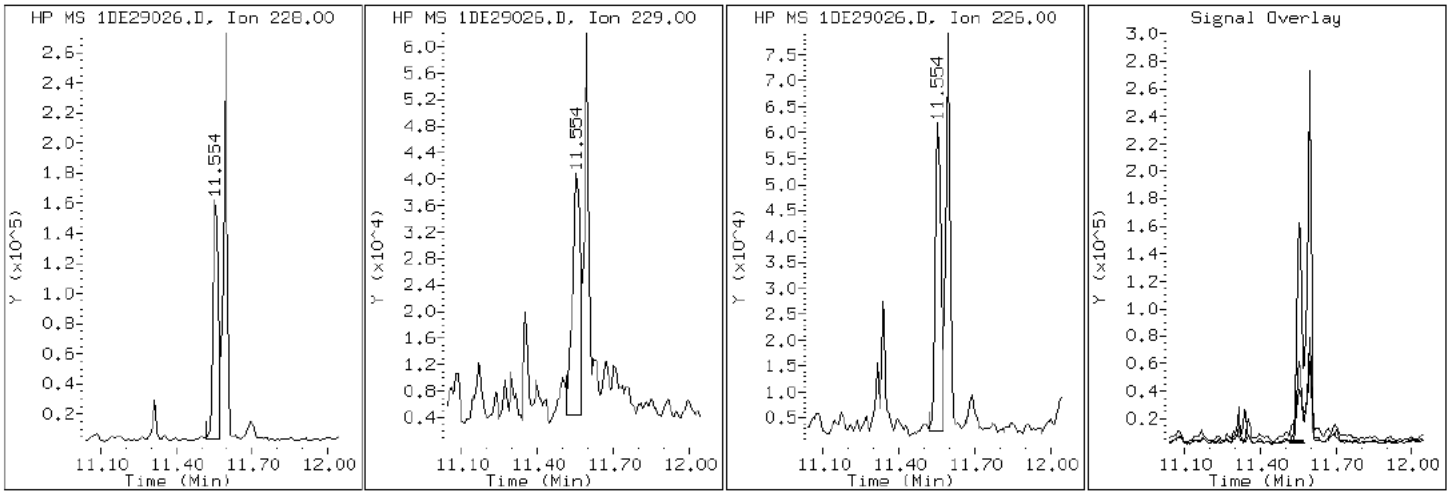
Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC

18 Benzo(a)anthracene



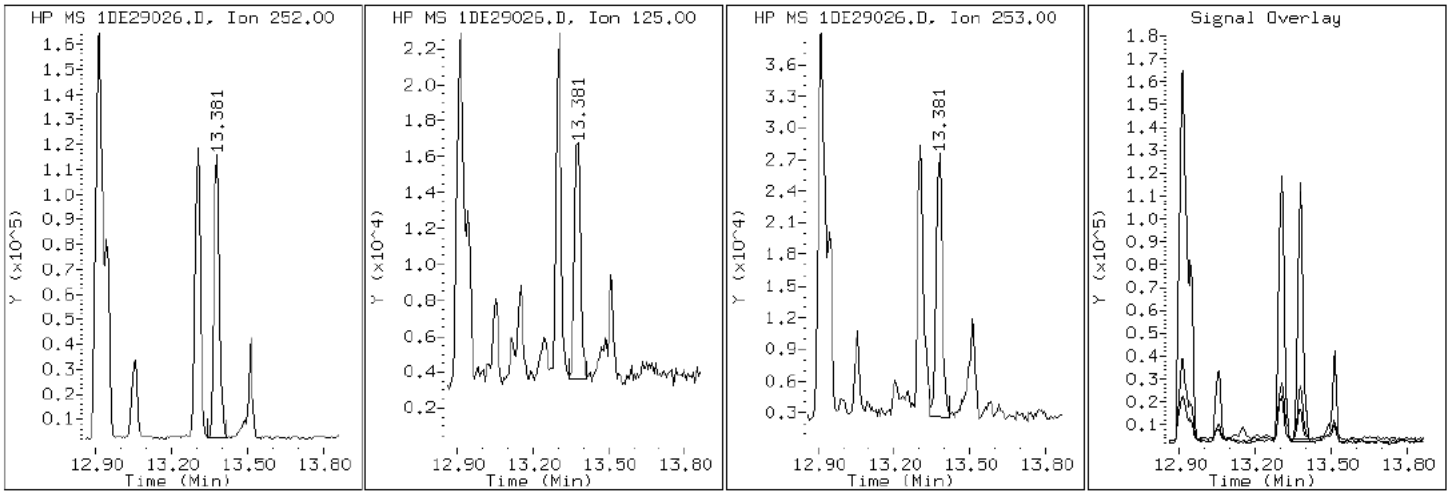
Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC

23 Benzo(a)pyrene



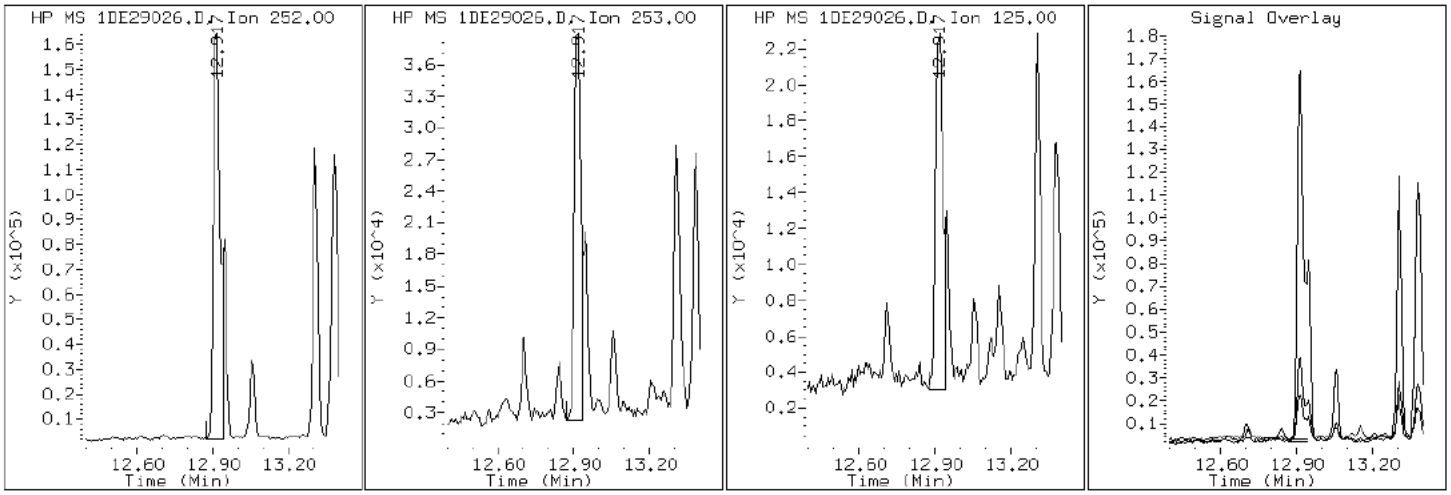
Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC

21 Benzo(b)fluoranthene



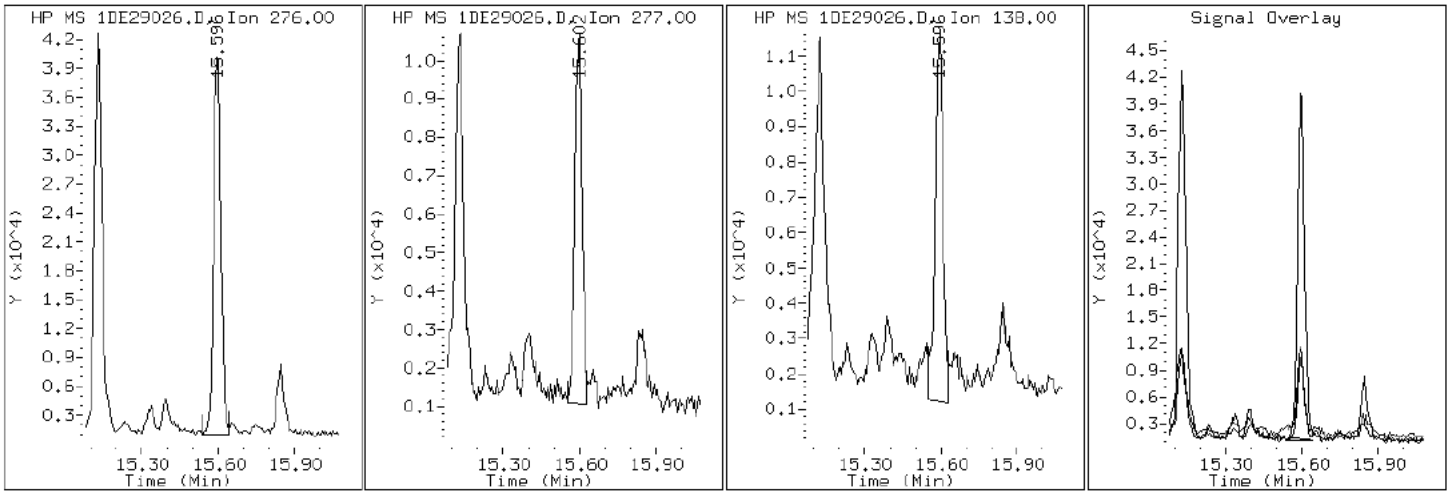
Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC

27 Benzo(g,h,i)perylene



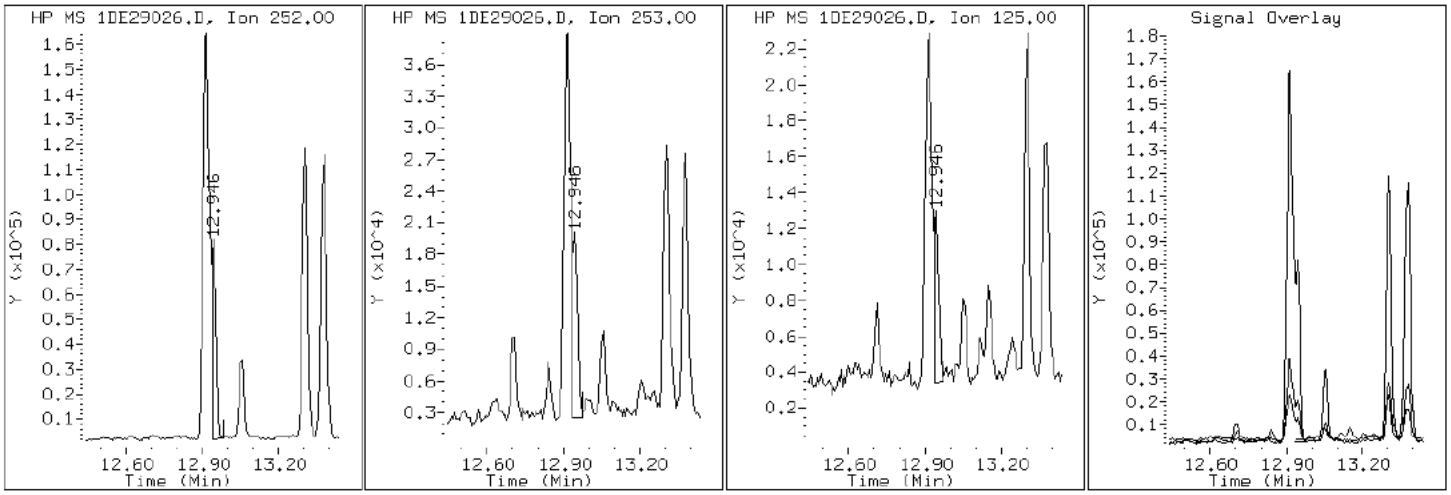
Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC

22 Benzo(k)fluoranthene



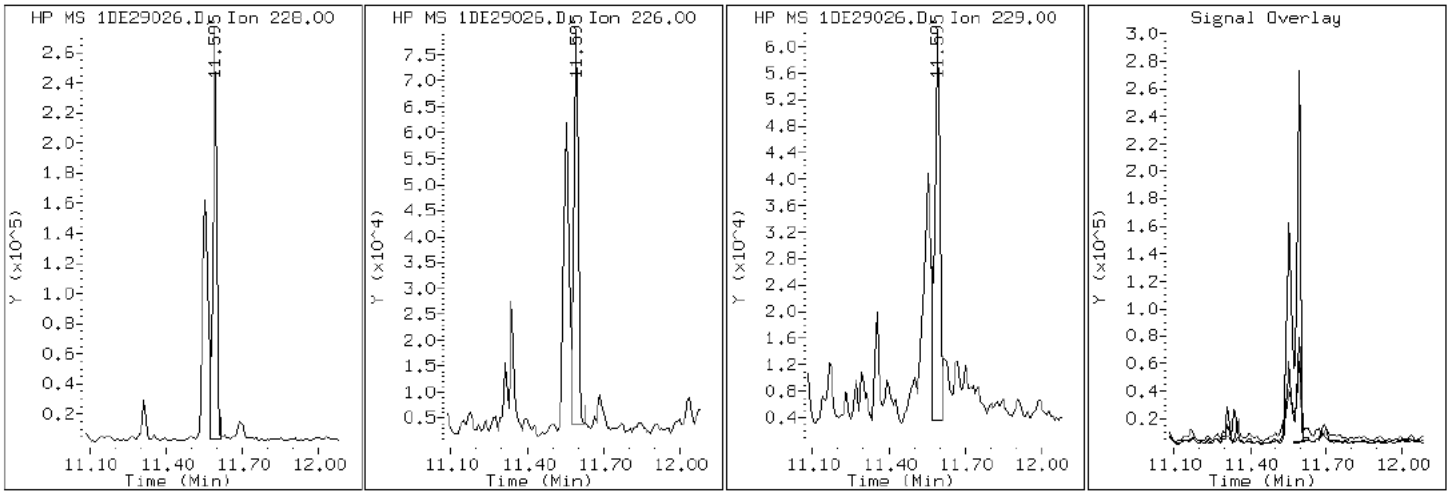
Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC

20 Chrysene



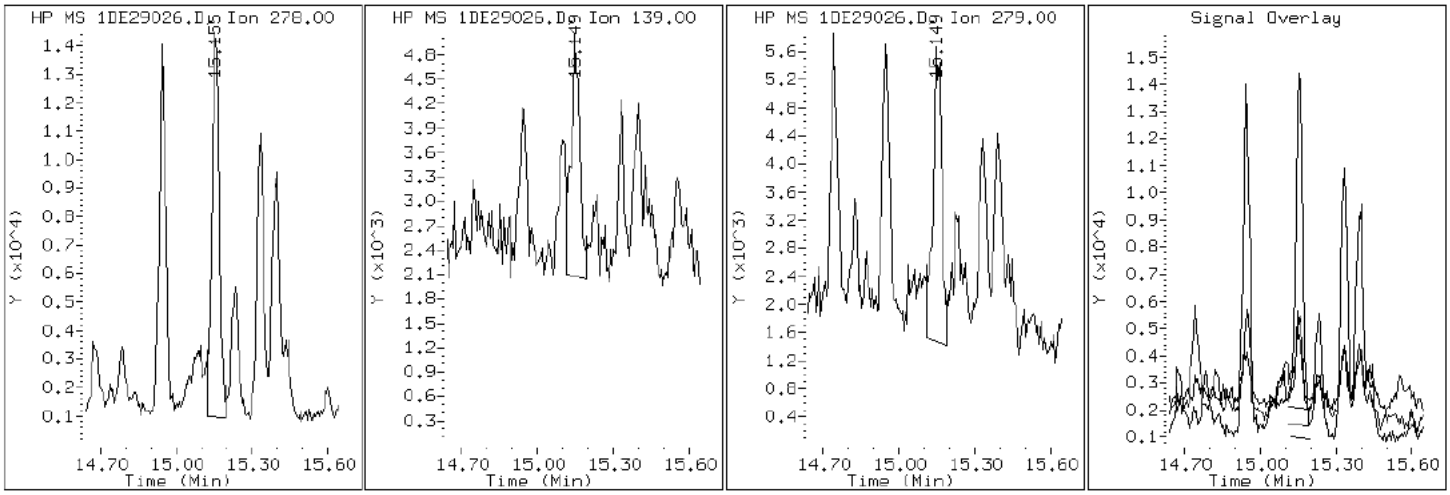
Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC

26 Dibenzo(a,h)anthracene



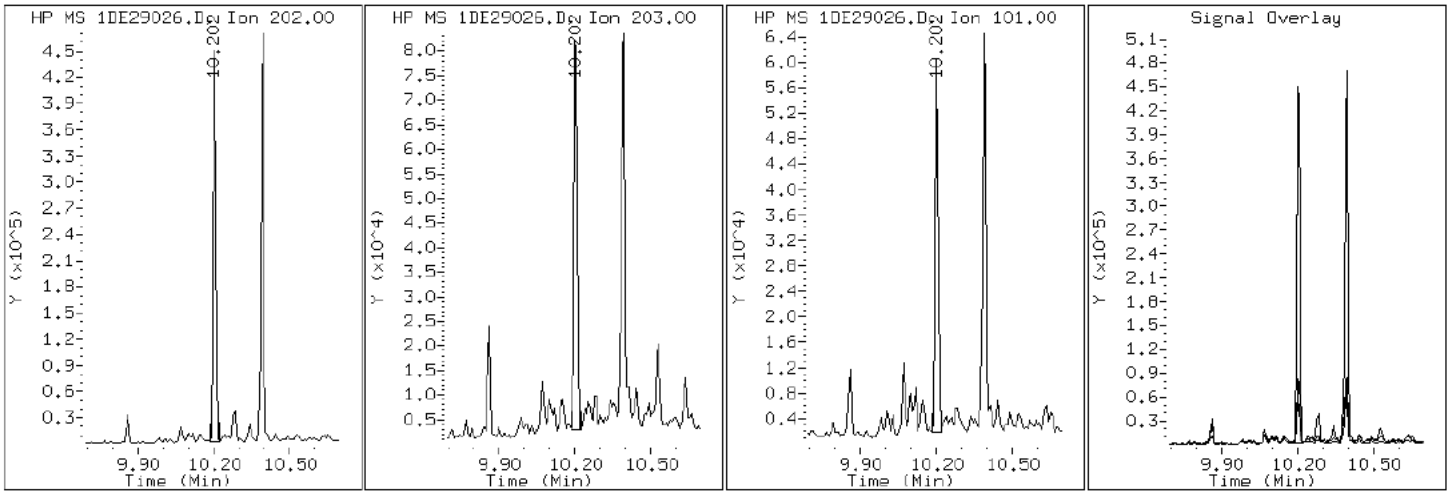
Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC

16 Fluoranthene



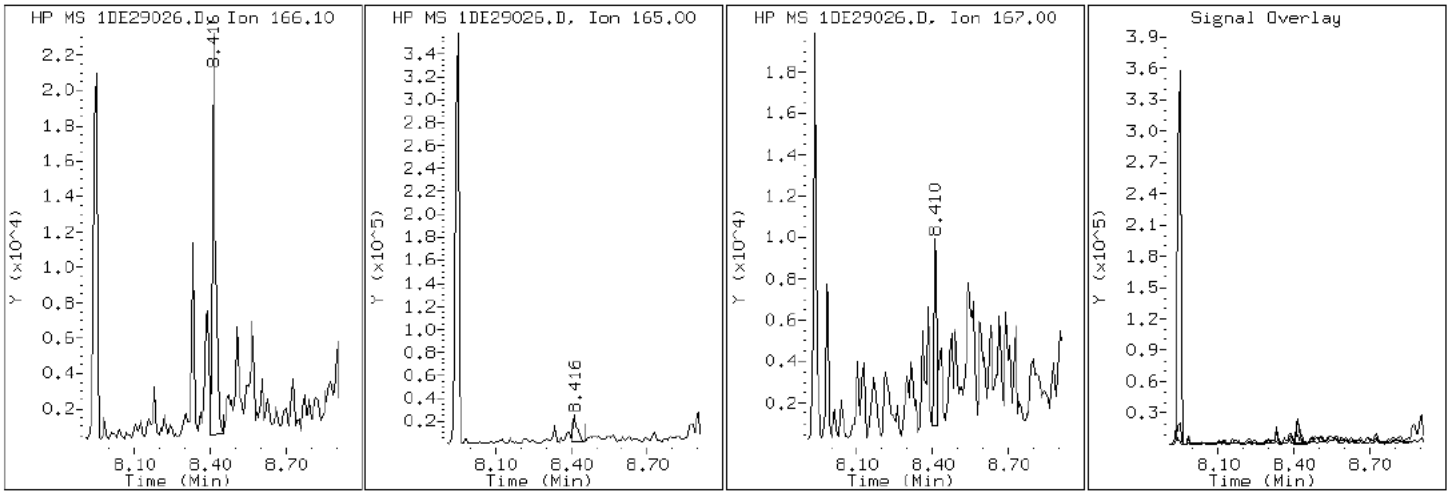
Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC

10 Fluorene



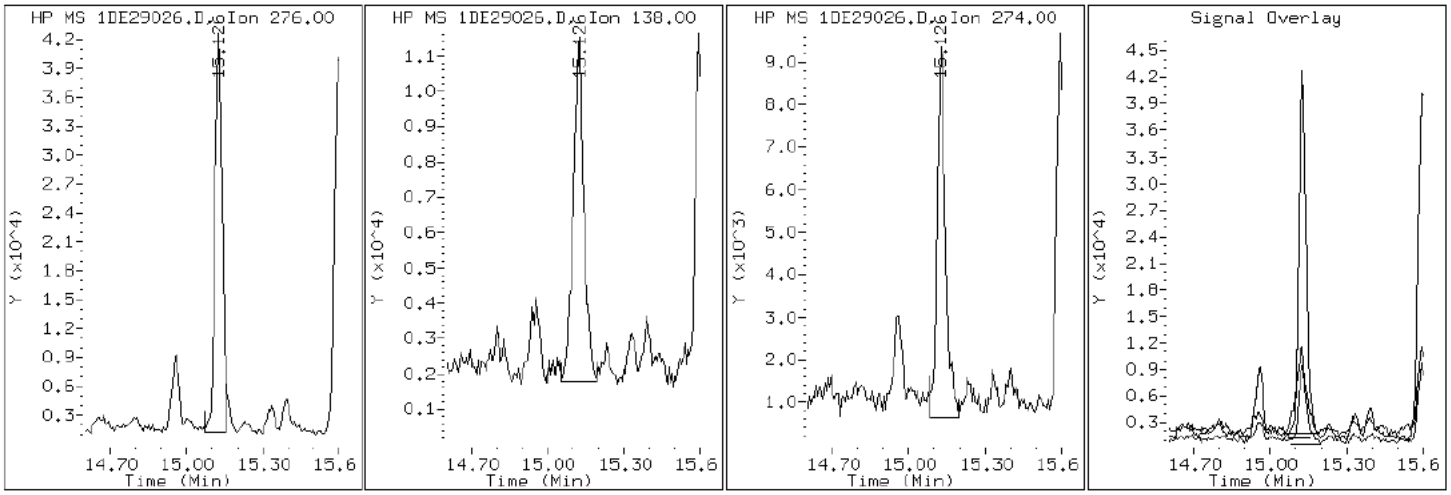
Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC

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



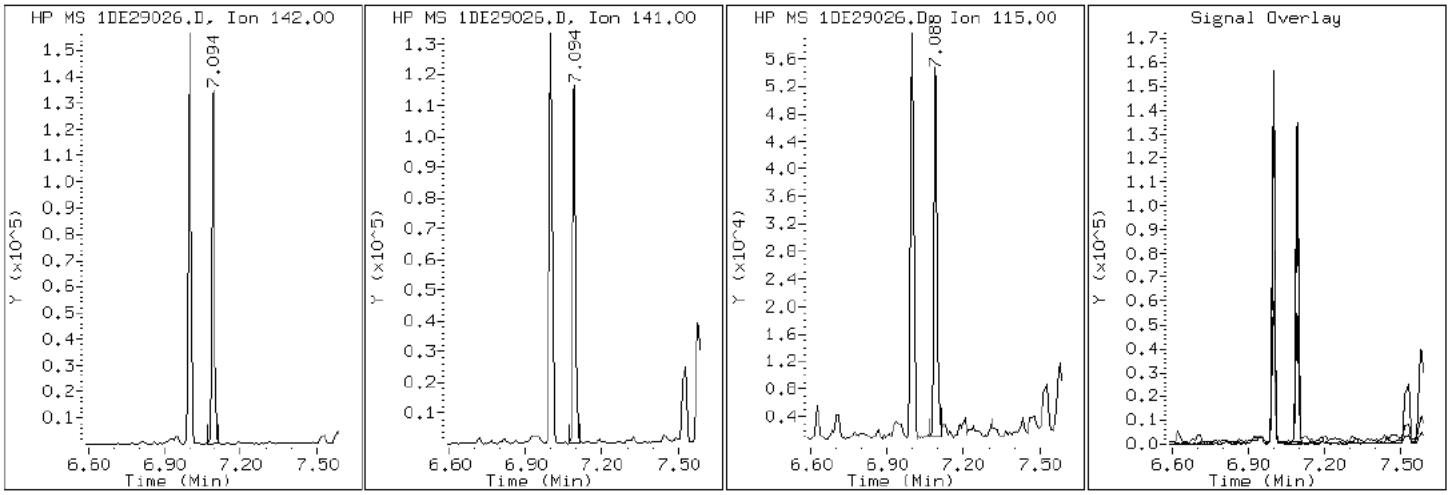
Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC

4 1-Methylnaphthalene



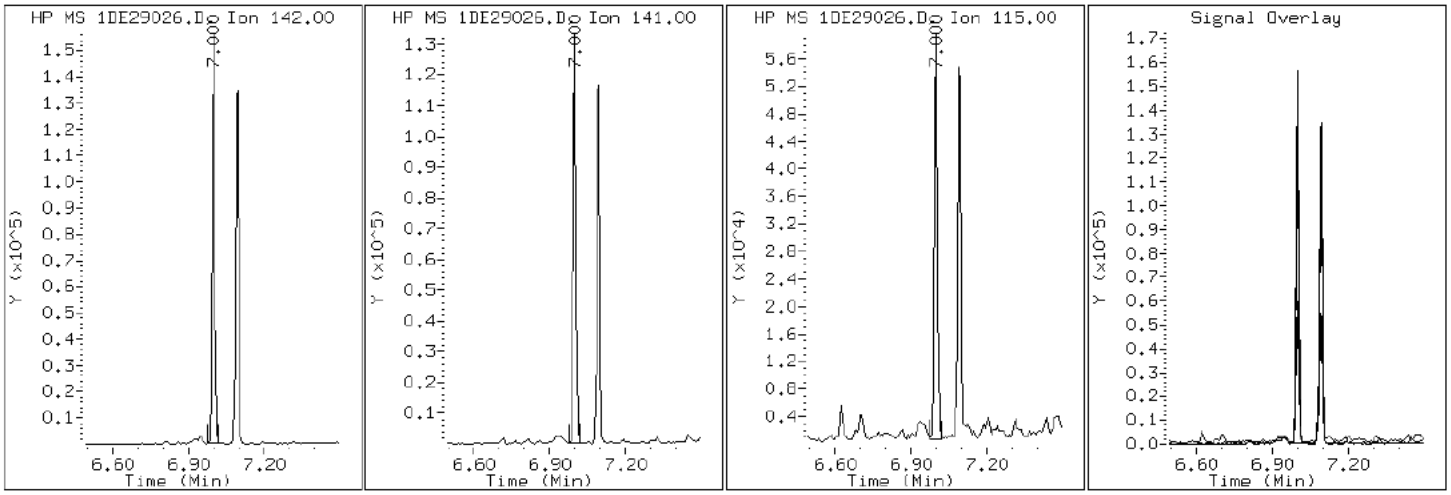
Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC

3 2-Methylnaphthalene



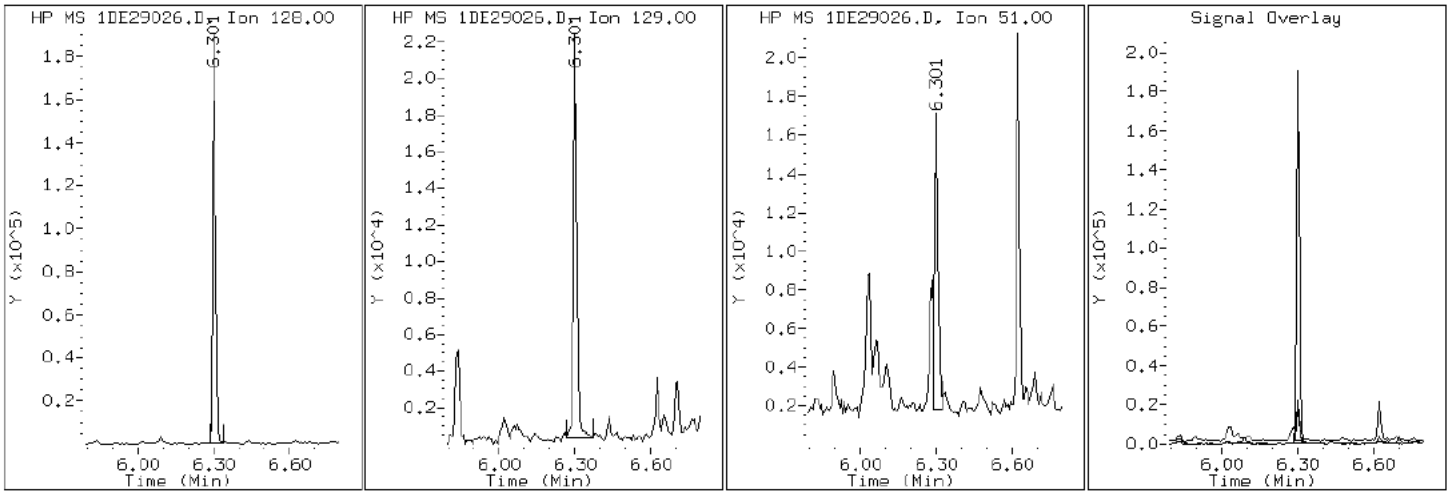
Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC

2 Naphthalene



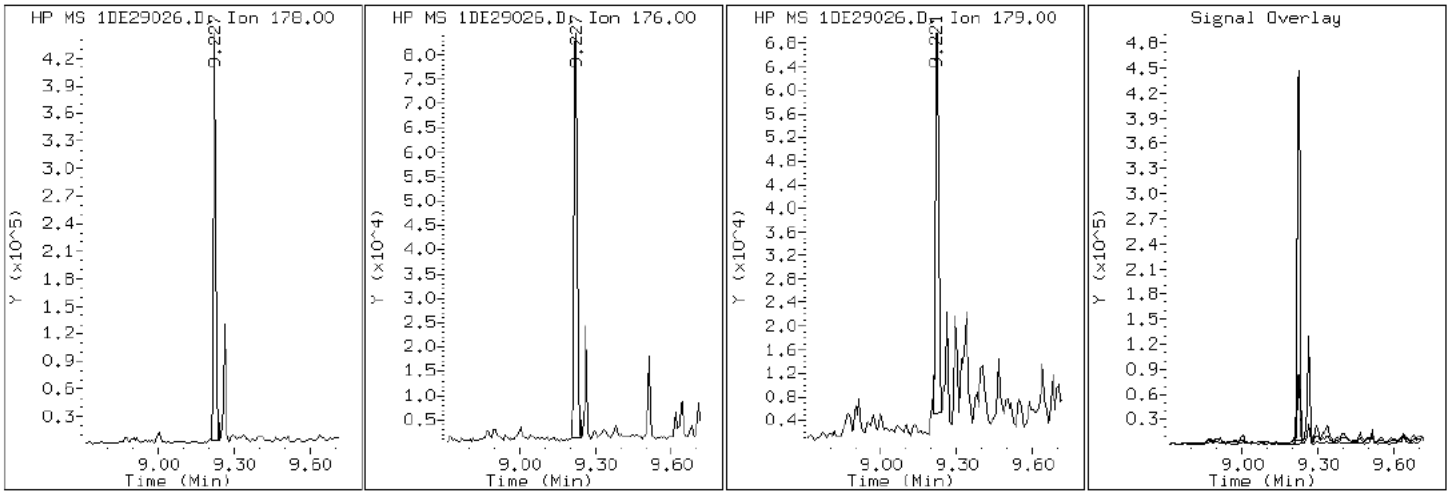
Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC

12 Phenanthrene



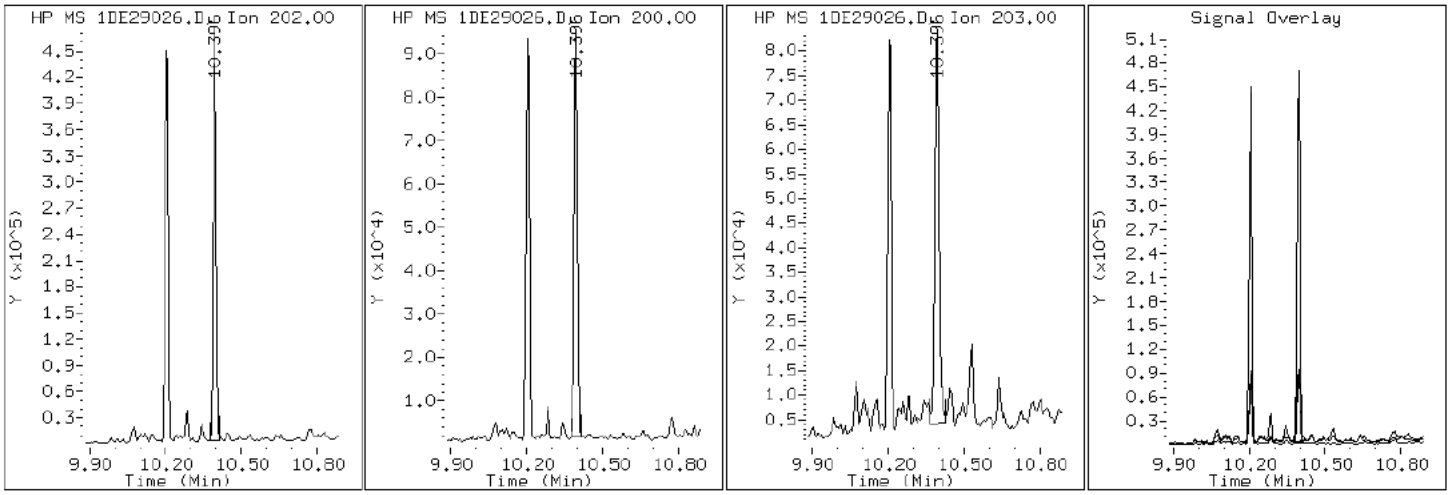
Data File: 1DE29026.D

Date: 29-MAY-2013 23:48

Client ID: CV0838A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-32-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DE29026.D
Inj. Date and Time: 29-MAY-2013 23:48
Instrument ID: BSMSD.i
Client ID: CV0838A-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

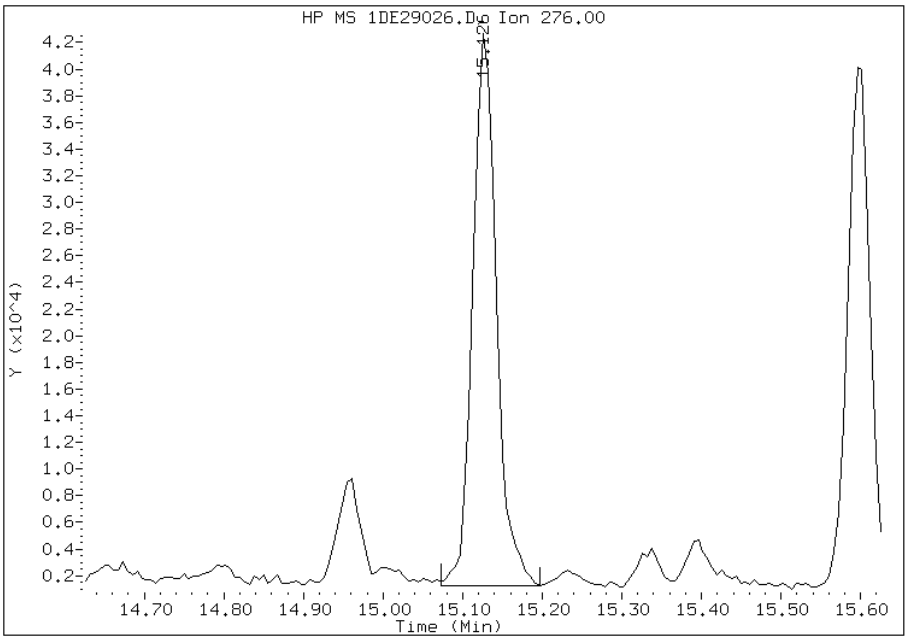
Processing Integration Results

RT: 15.13

Response: 85027

Amount: 1

Conc: 97



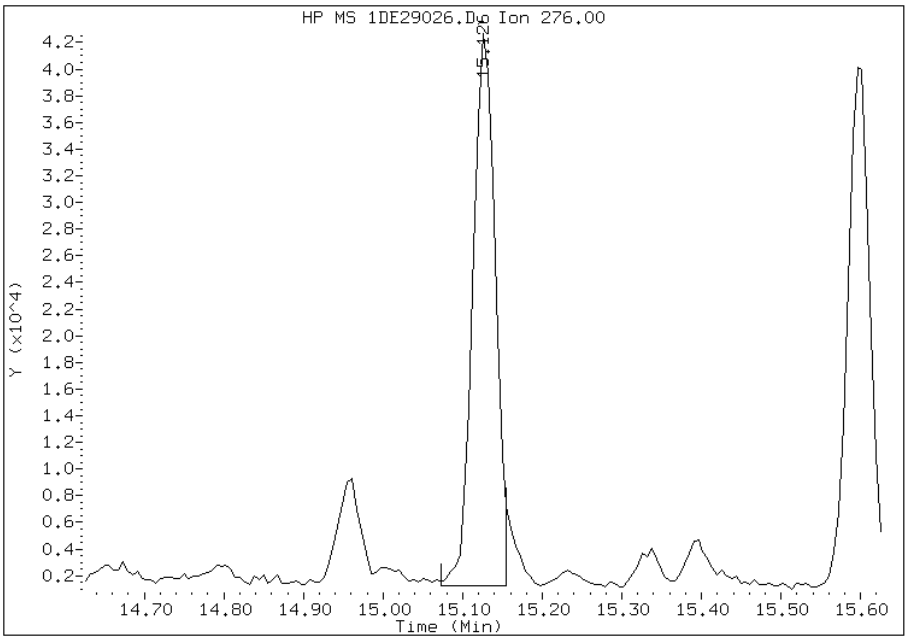
Manual Integration Results

RT: 15.13

Response: 81078

Amount: 1

Conc: 93



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 16:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV0838B-CS-SP | Lab Sample ID: 680-90622-33

Matrix: Solid | Lab File ID: 1DE29027.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 14:41

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 14.99(g) | Date Analyzed: 05/30/2013 00:10

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

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

% Moisture: 20.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137911 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	80		50	6.3
120-12-7	Anthracene	160		11	5.3
56-55-3	Benzo[a]anthracene	400		10	4.9
50-32-8	Benzo[a]pyrene	410		13	6.6
205-99-2	Benzo[b]fluoranthene	790		15	7.7
191-24-2	Benzo[g,h,i]perylene	200		25	5.5
207-08-9	Benzo[k]fluoranthene	280		10	4.5
218-01-9	Chrysene	490		11	5.7
53-70-3	Dibenz(a,h)anthracene	80		25	5.2
206-44-0	Fluoranthene	660		25	5.0
86-73-7	Fluorene	32		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	220		25	8.9
90-12-0	1-Methylnaphthalene	170		50	5.5
91-57-6	2-Methylnaphthalene	190		50	8.9
91-20-3	Naphthalene	170		50	5.5
85-01-8	Phenanthrene	480	B	10	4.9
129-00-0	Pyrene	560		25	4.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\1DE29027.D
Lab Smp Id: 680-90622-A-33-A Client Smp ID: CV0838B-CS-SP
Inj Date : 30-MAY-2013 00:10
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90622-a-33-a
Misc Info : 680-90622-A-33-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\dFASTPAHi.m
Meth Date : 29-May-2013 17:42 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	20.563	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.284	6.277	(1.000)	3920225	40.0000	
* 7 Acenaphthene-d10	164	7.953	7.945	(1.000)	2109270	40.0000	
* 11 Phenanthrene-d10	188	9.210	9.197	(1.000)	3232926	40.0000	
$ 15 o-Terphenyl	230	9.515	9.508	(1.033)	305925	6.45912	540
* 19 Chrysene-d12	240	11.572	11.559	(1.000)	3103144	40.0000	
* 24 Perylene-d12	264	13.493	13.456	(1.000)	3048952	40.0000	
2 Naphthalene	128	6.302	6.294	(1.003)	192467	1.99087	170
3 2-Methylnaphthalene	142	7.001	6.993	(1.114)	141972	2.30645	190
4 1-Methylnaphthalene	142	7.089	7.087	(1.128)	131719	2.07858	170
5 1,1'-Biphenyl	154	7.436	7.428	(0.935)	35402	0.49678	42
6 Acenaphthylene	152	7.817	7.816	(0.983)	83347	0.95304	80
8 Acenaphthene	154	7.976	7.969	(1.003)	14333	0.25836	22
9 Dibenzofuran	168	8.123	8.116	(1.021)	60752	0.79419	67
10 Fluorene	166	8.417	8.409	(1.058)	23741	0.37822	32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.222	9.214	(1.001)	501591	5.72865	480
13 Anthracene	178	9.263	9.255	(1.006)	162061	1.90760	160
16 Fluoranthene	202	10.203	10.195	(1.108)	699260	7.80639	660
17 Pyrene	202	10.397	10.383	(0.898)	600557	6.61023	560
18 Benzo(a)anthracene	228	11.560	11.541	(0.999)	433755	4.70989	400
20 Chrysene	228	11.595	11.582	(1.002)	486453	5.86587	490
21 Benzo(b)fluoranthene	252	12.917	12.898	(0.957)	715004	9.36077	790
22 Benzo(k)fluoranthene	252	12.953	12.939	(0.960)	264582	3.30776	280
23 Benzo(a)pyrene	252	13.387	13.362	(0.992)	360358	4.86392	410
25 Indeno(1,2,3-cd)pyrene	276	15.132	15.101	(1.121)	194665	2.60435	220(M)
26 Dibenzo(a,h)anthracene	278	15.162	15.143	(1.124)	64420	0.95601	80
27 Benzo(g,h,i)perylene	276	15.608	15.577	(1.157)	167115	2.41388	200

QC Flag Legend

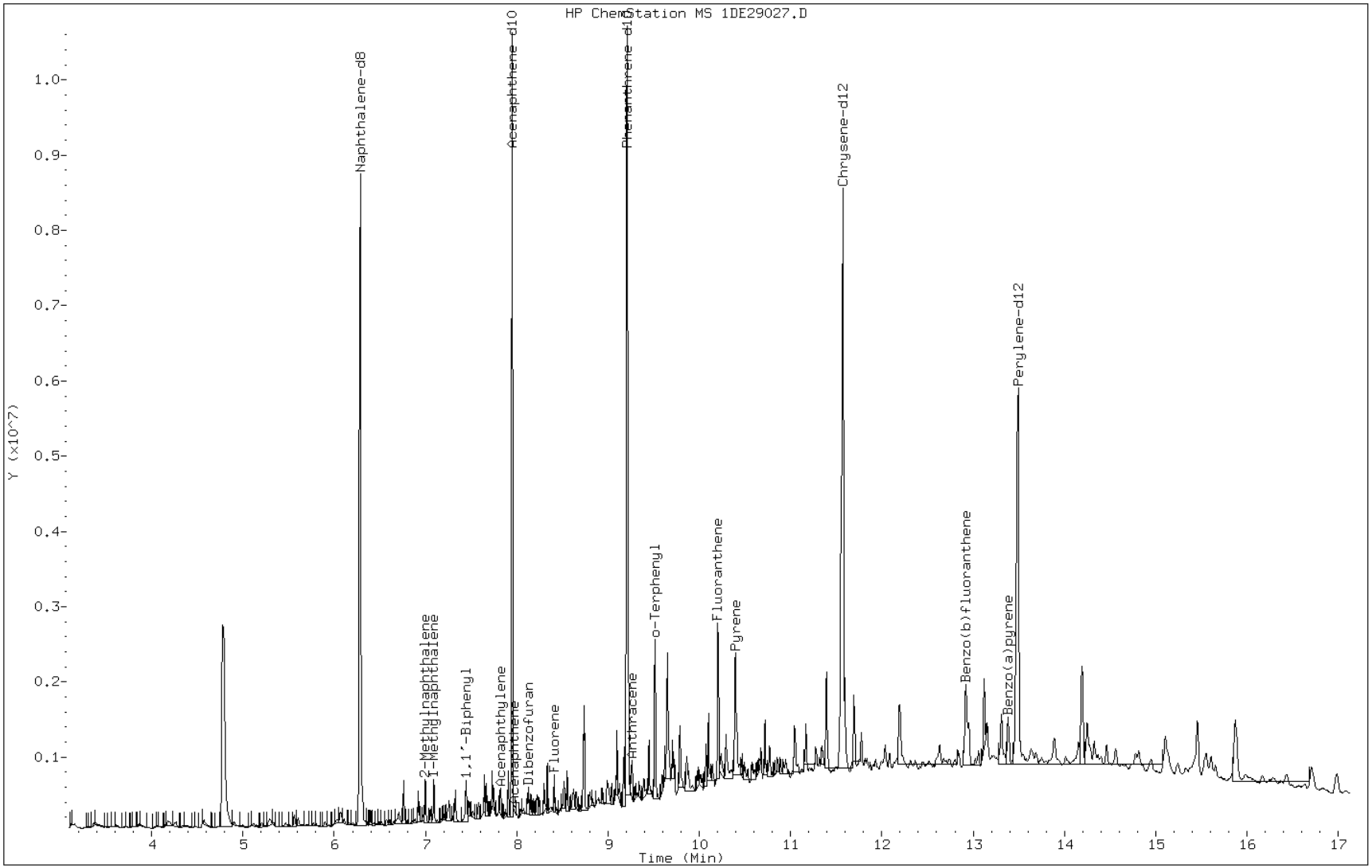
M - Compound response manually integrated.

Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC



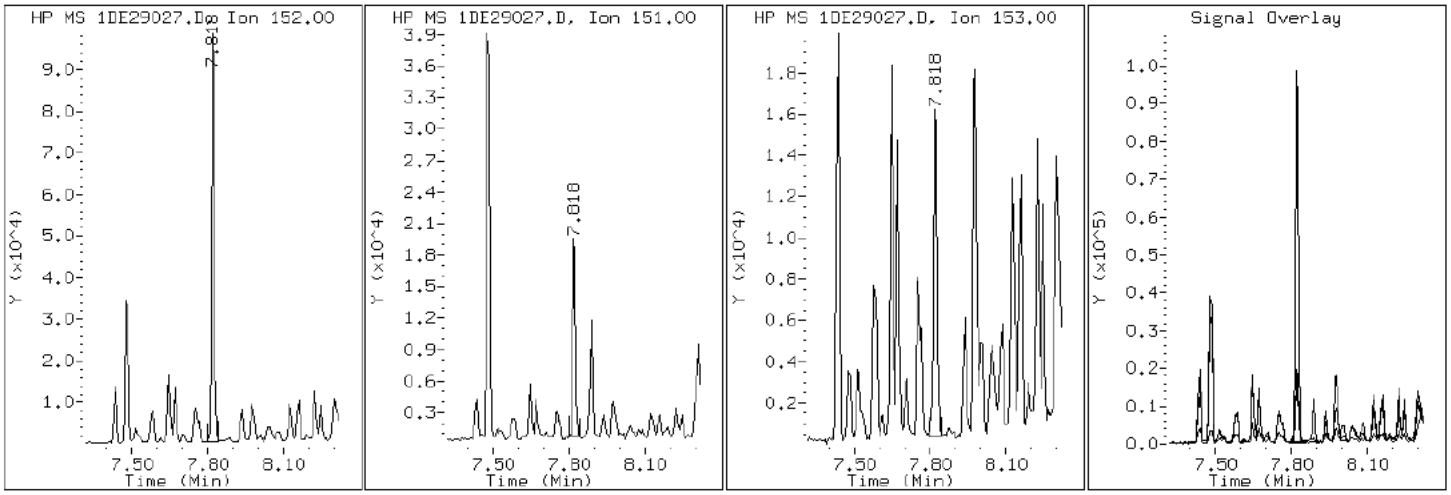
Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC

6 Acenaphthylene



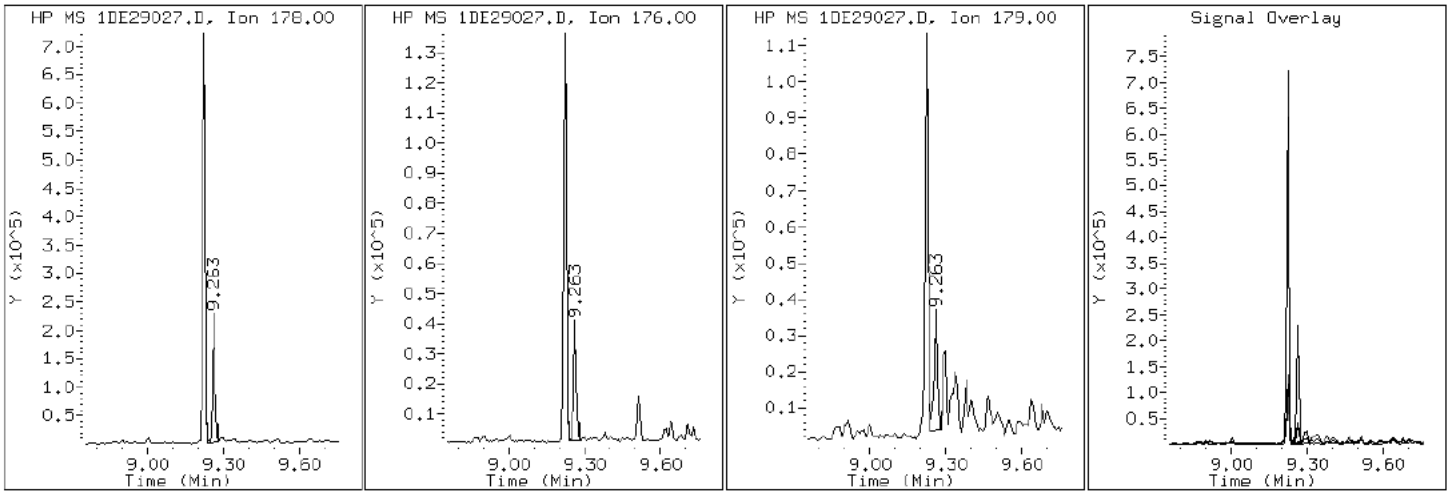
Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC

13 Anthracene



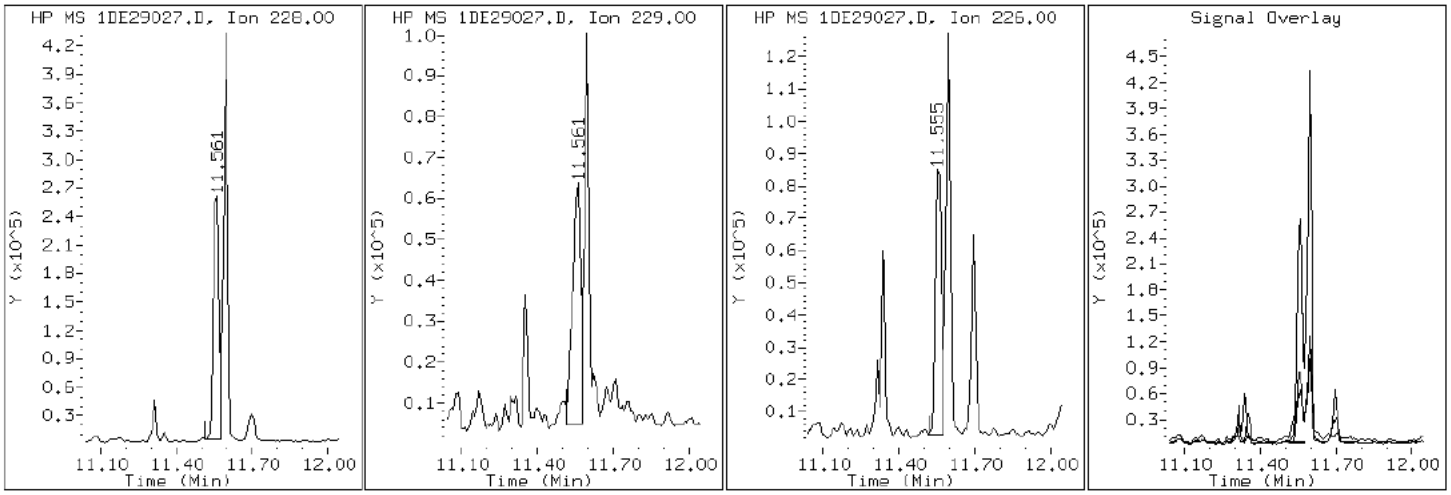
Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC

18 Benzo(a)anthracene



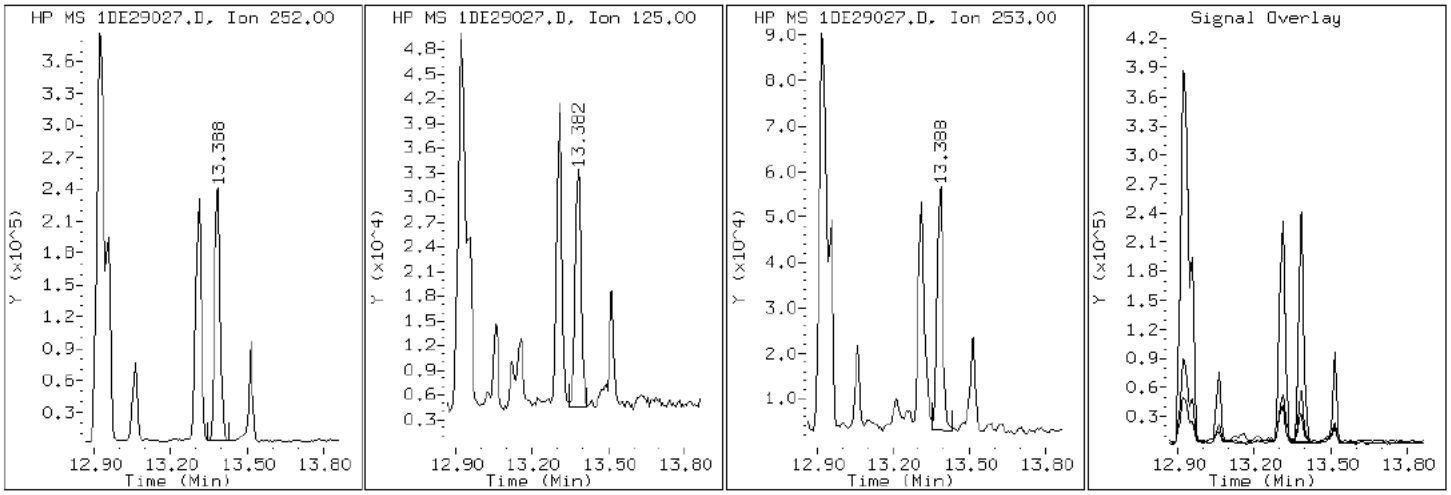
Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC

23 Benzo(a)pyrene



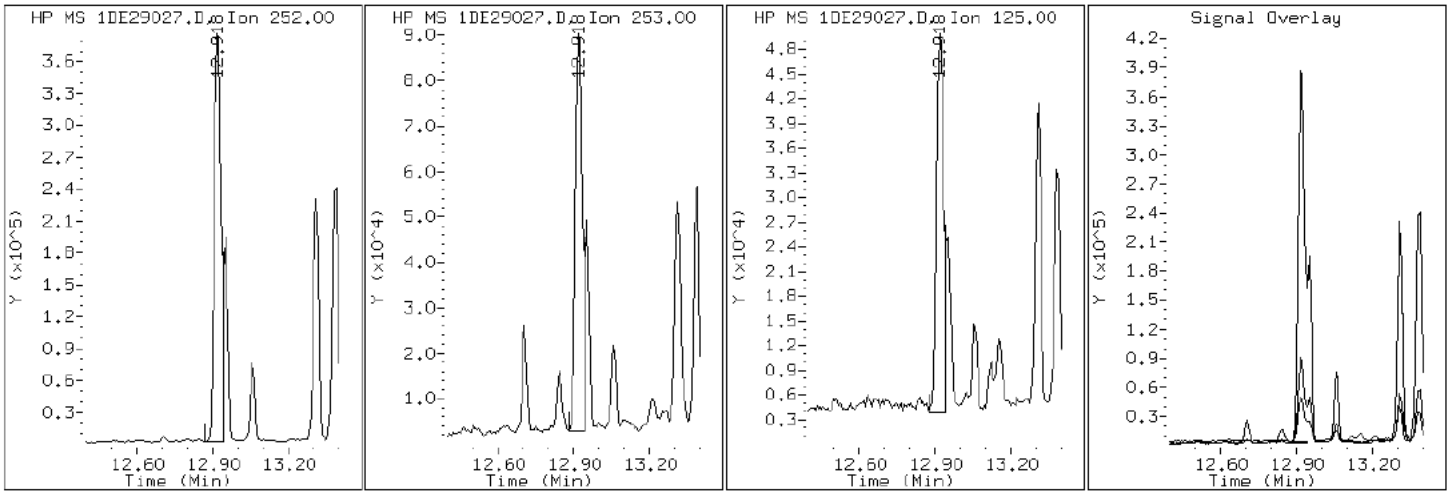
Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC

21 Benzo(b)fluoranthene



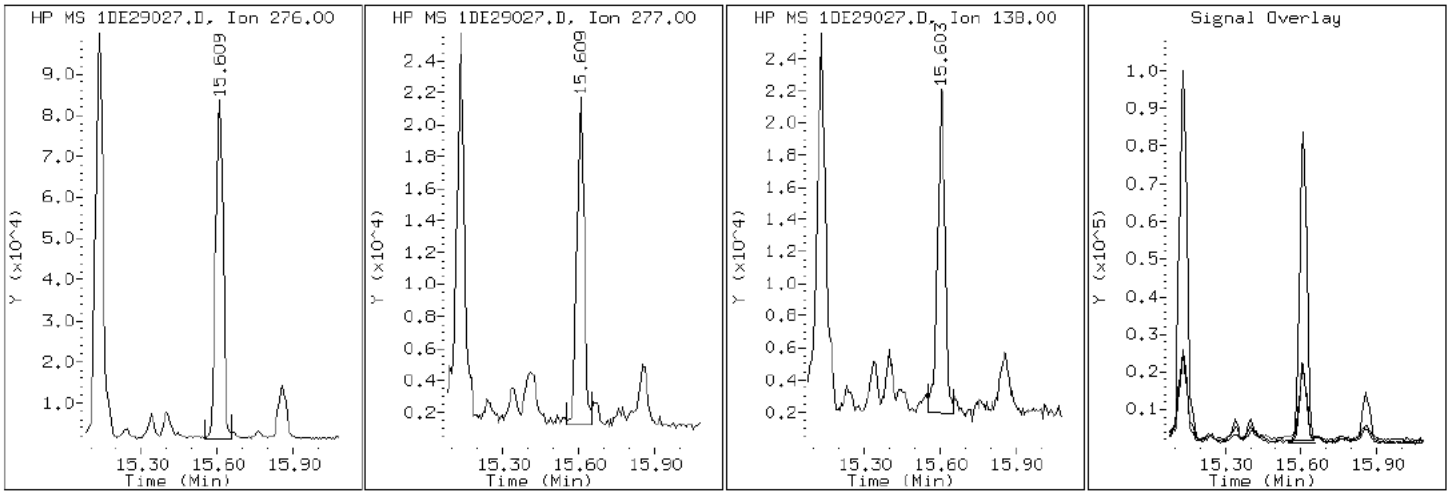
Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC

27 Benzo(g,h,i)perylene



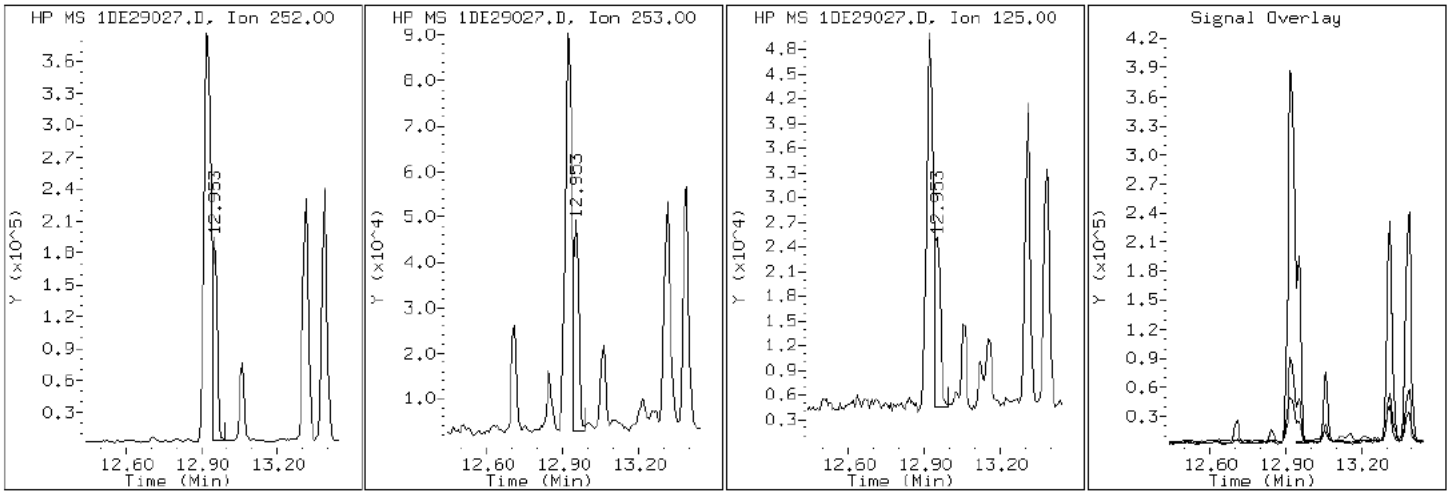
Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC

22 Benzo(k)fluoranthene



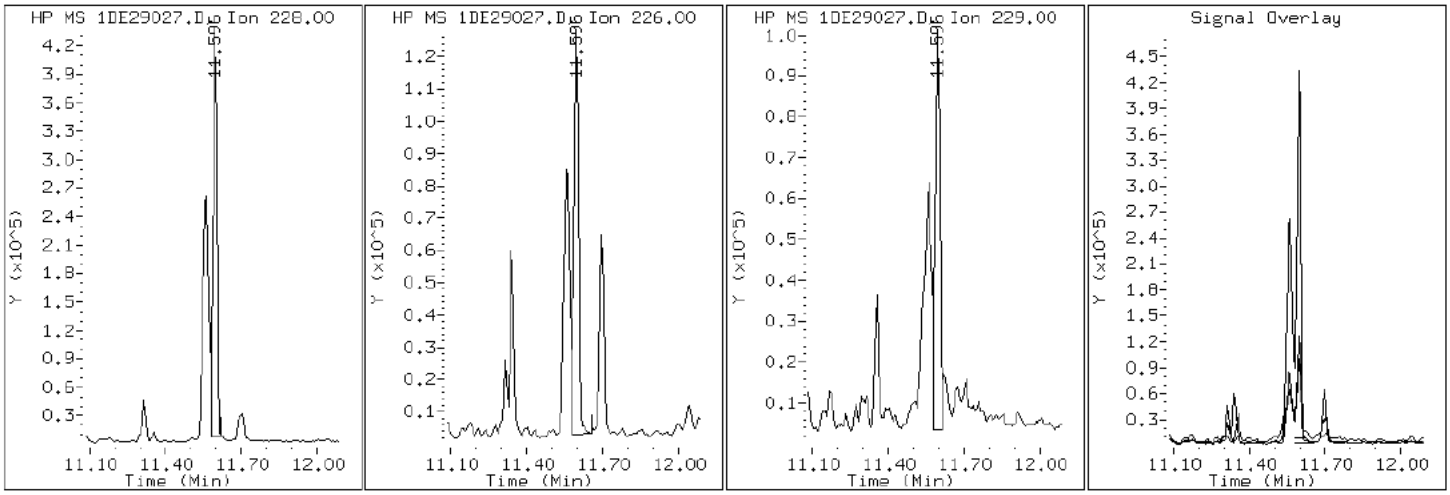
Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC

20 Chrysene



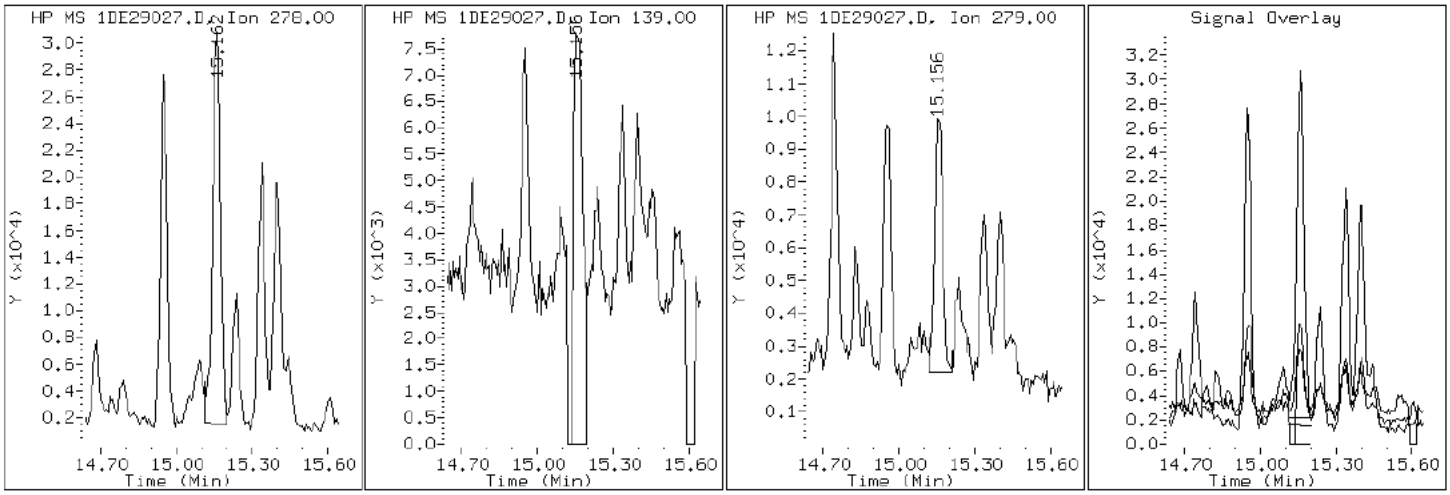
Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC

26 Dibenzo(a,h)anthracene



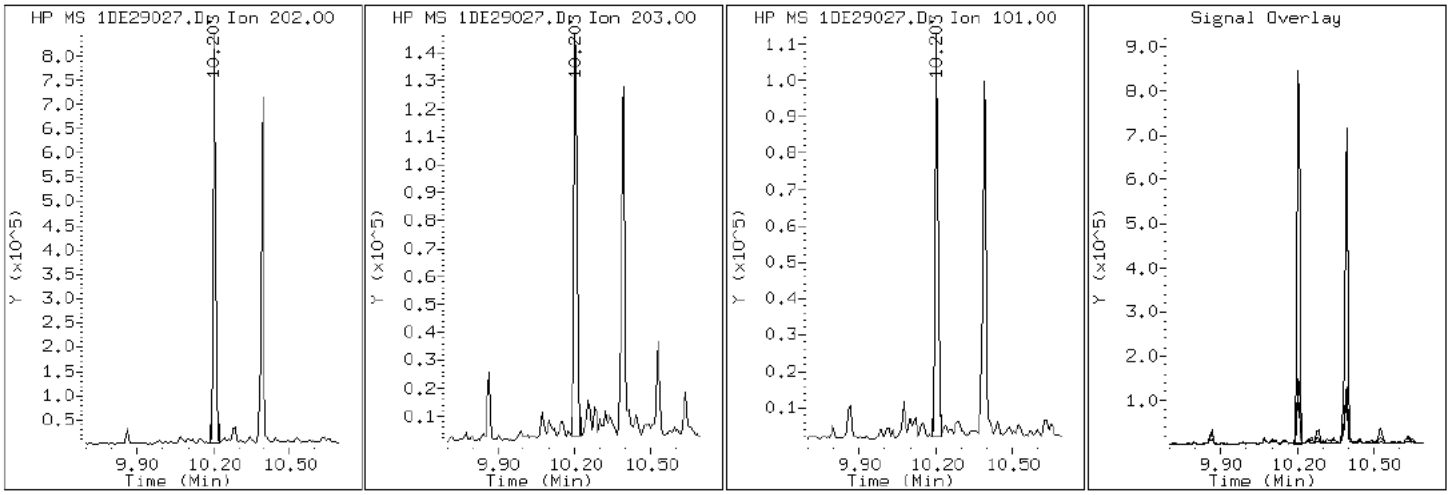
Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC

16 Fluoranthene



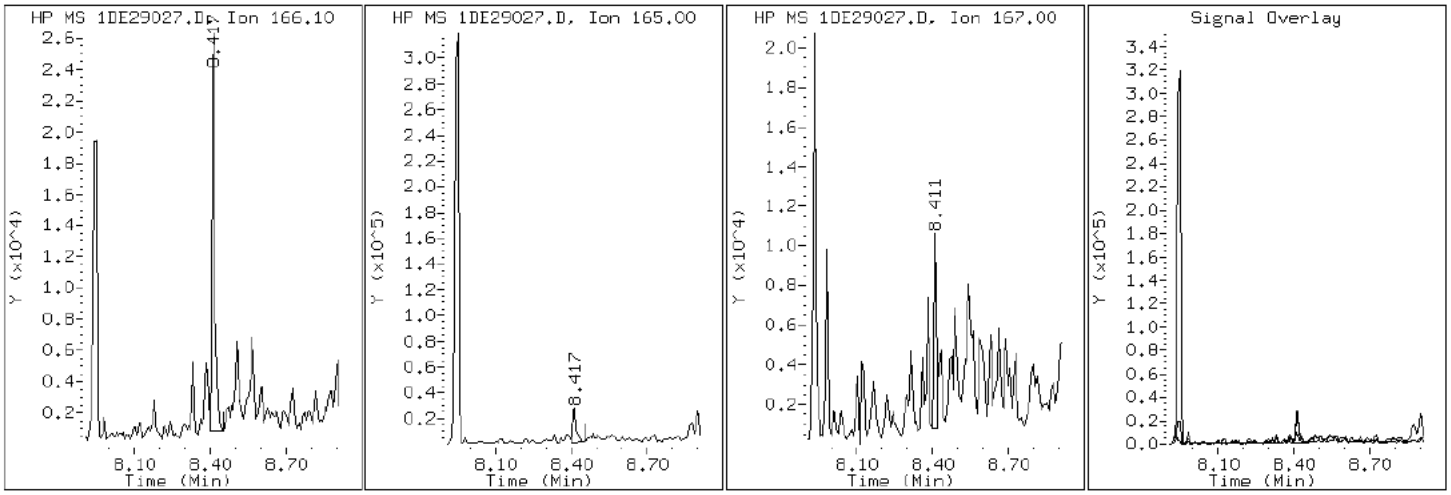
Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC

10 Fluorene



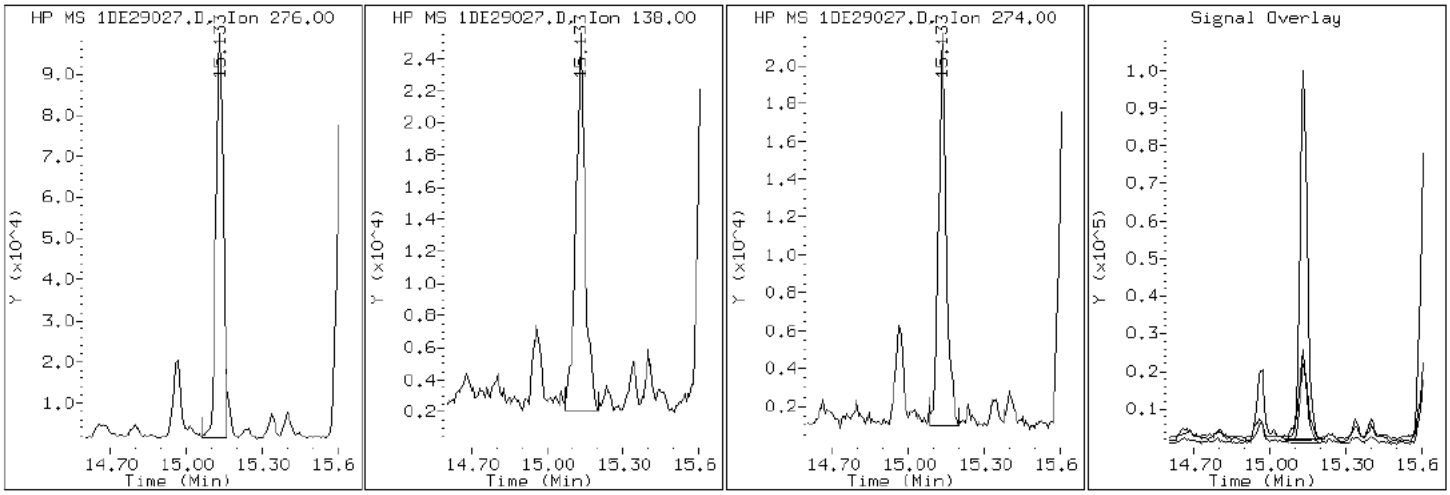
Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC

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



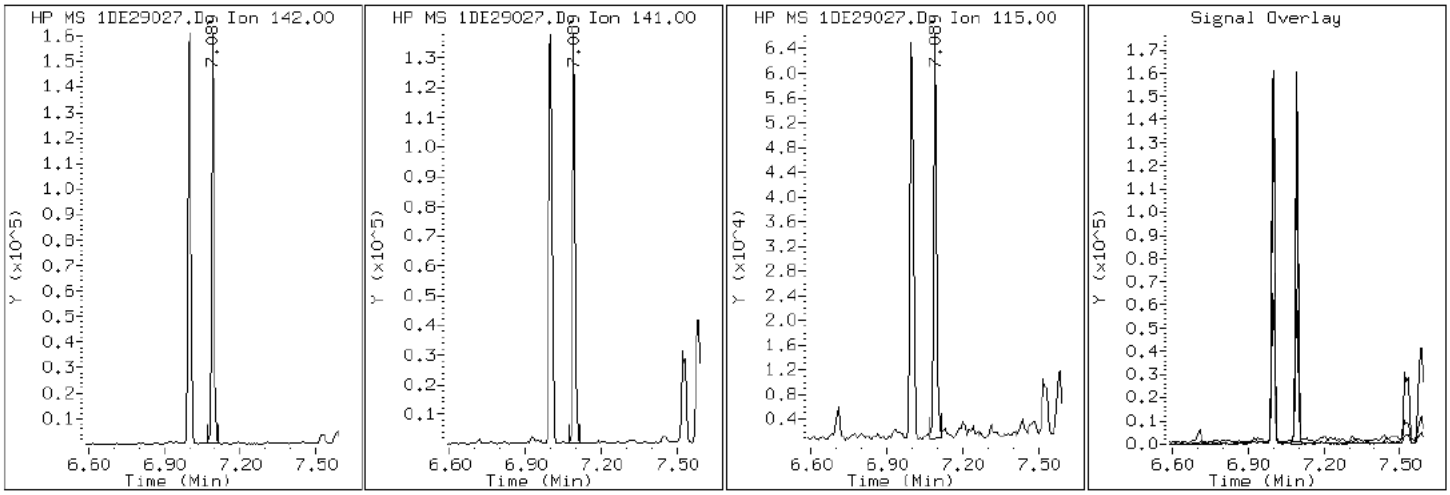
Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC

4 1-Methylnaphthalene



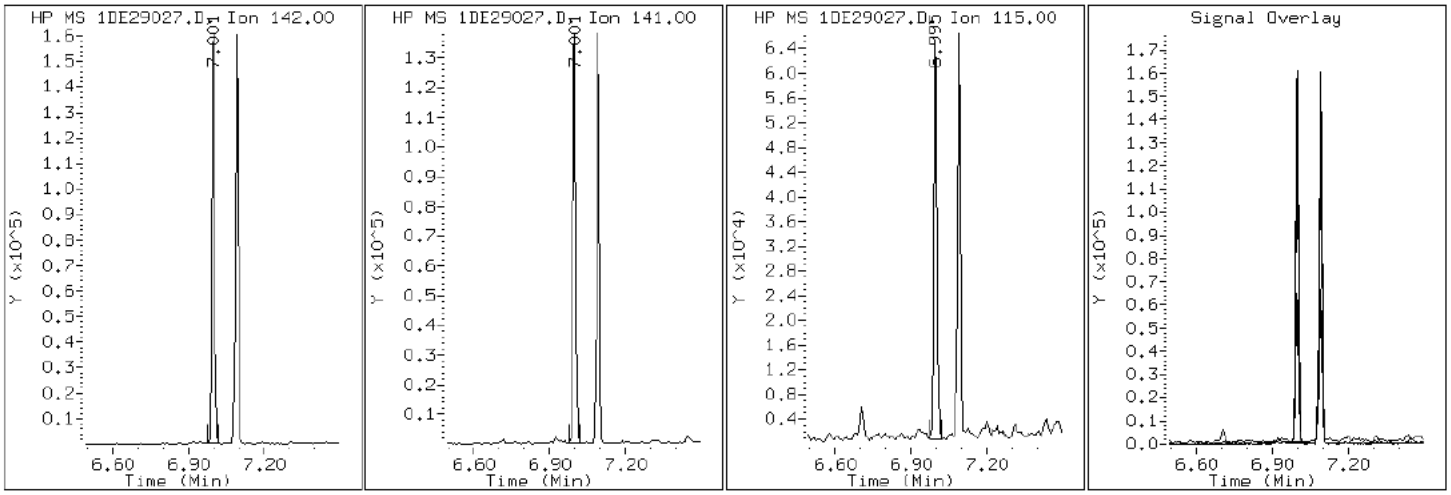
Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC

3 2-Methylnaphthalene



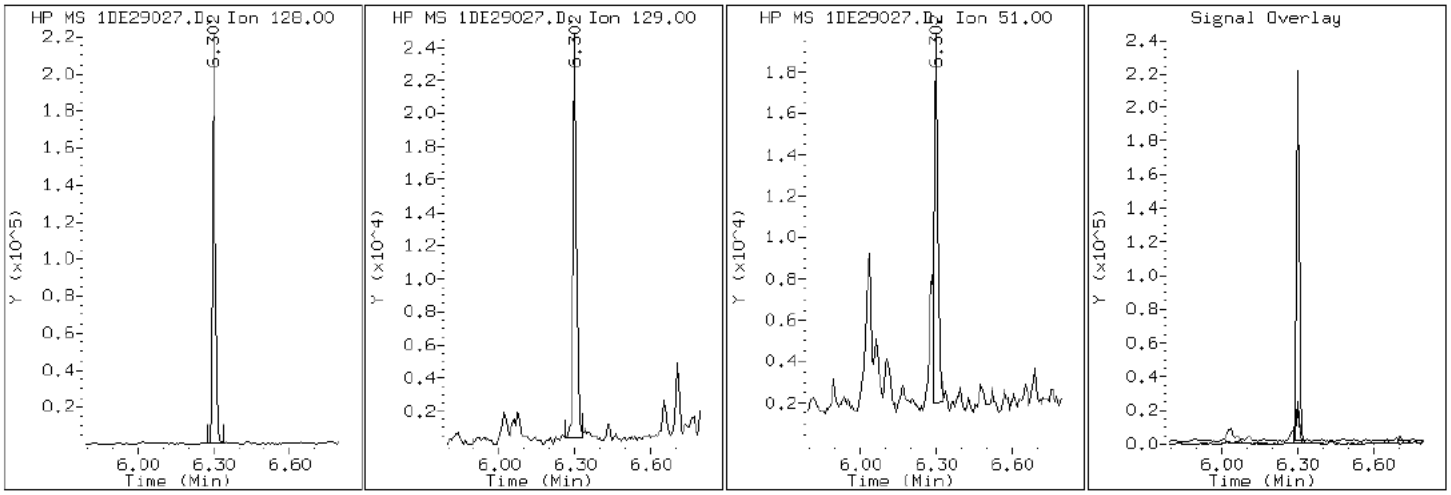
Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC

2 Naphthalene



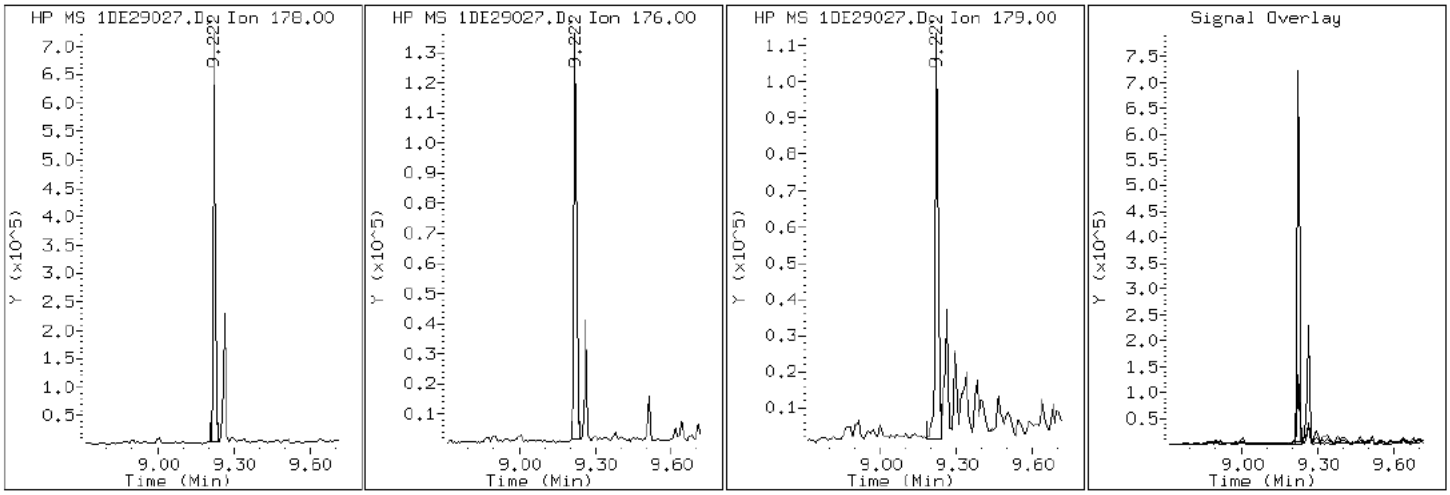
Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC

12 Phenanthrene



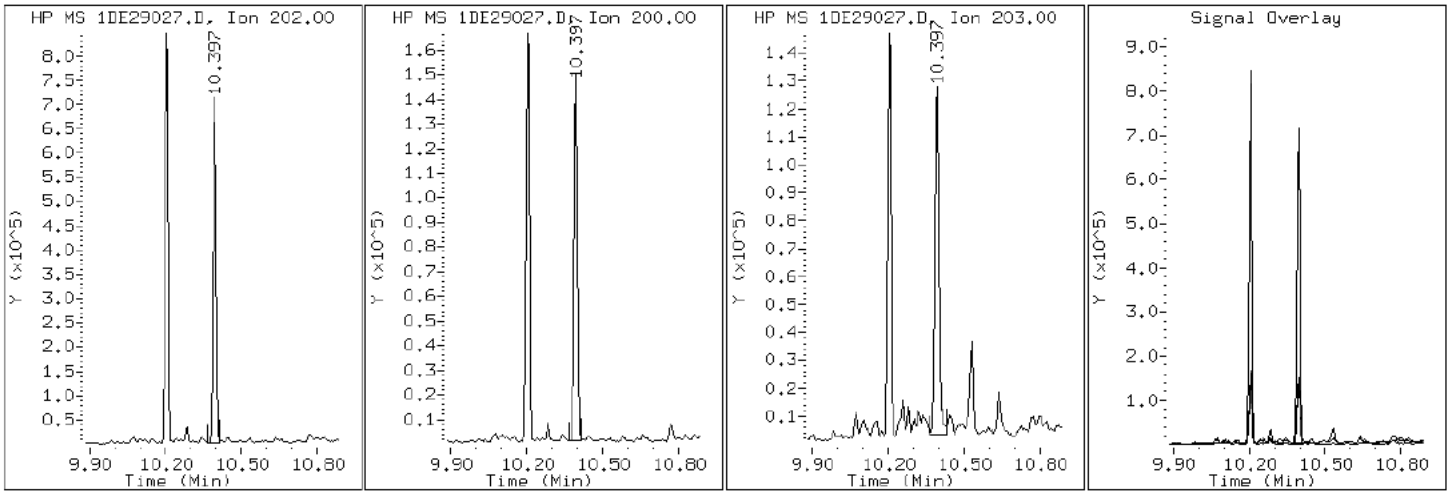
Data File: 1DE29027.D

Date: 30-MAY-2013 00:10

Client ID: CV0838B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-33-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DE29027.D
Inj. Date and Time: 30-MAY-2013 00:10
Instrument ID: BSMSD.i
Client ID: CV0838B-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

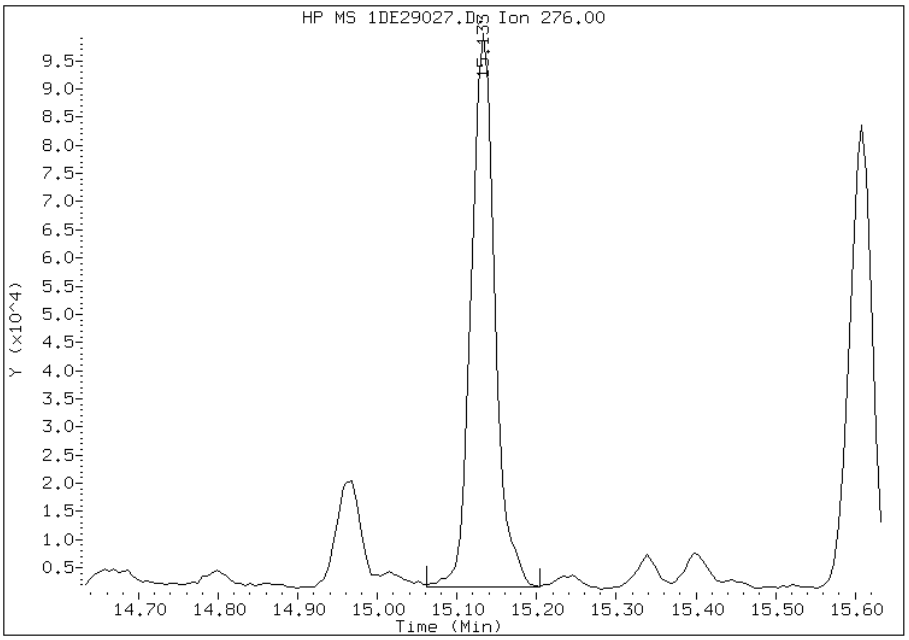
Processing Integration Results

RT: 15.13

Response: 202066

Amount: 3

Conc: 227



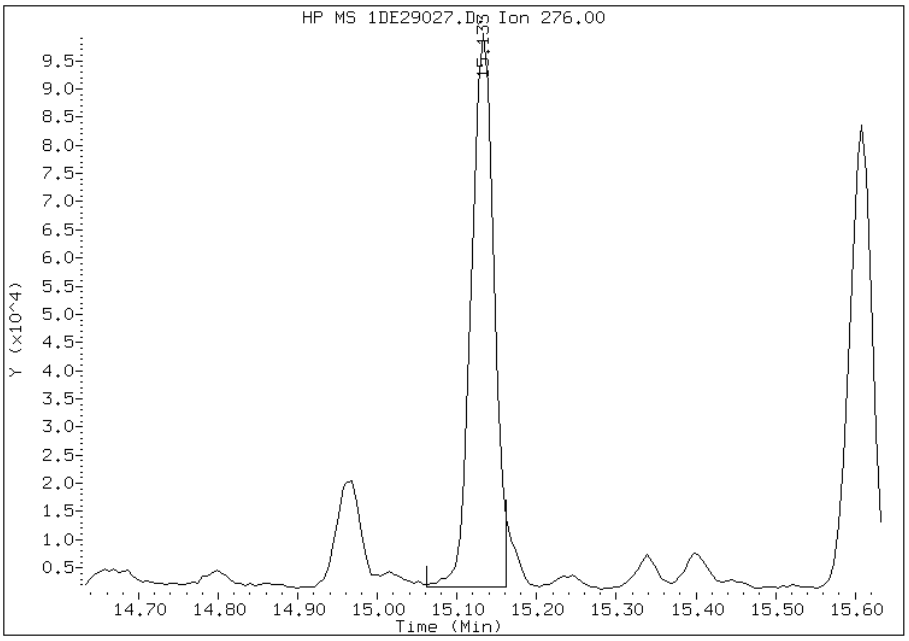
Manual Integration Results

RT: 15.13

Response: 194665

Amount: 3

Conc: 219



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 16:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV0912A-CS-SP | Lab Sample ID: 680-90622-34

Matrix: Solid | Lab File ID: 1DE29028.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 15:15

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 14.99(g) | Date Analyzed: 05/30/2013 00:33

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

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

% Moisture: 24.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137911 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1100		530	110
208-96-8	Acenaphthylene	330		210	26
120-12-7	Anthracene	5200		44	22
56-55-3	Benzo[a]anthracene	7300		42	21
50-32-8	Benzo[a]pyrene	6200		55	27
205-99-2	Benzo[b]fluoranthene	8700		64	32
191-24-2	Benzo[g,h,i]perylene	2500		110	23
207-08-9	Benzo[k]fluoranthene	3400		42	19
218-01-9	Chrysene	6800		47	24
53-70-3	Dibenz(a,h)anthracene	710		110	22
86-73-7	Fluorene	450		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	2600		110	37
90-12-0	1-Methylnaphthalene	950		210	23
91-57-6	2-Methylnaphthalene	1000		210	37
91-20-3	Naphthalene	780		210	23
129-00-0	Pyrene	16000		110	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\1DE29028.D
Lab Smp Id: 680-90622-A-34-A Client Smp ID: CV0912A-CS-SP
Inj Date : 30-MAY-2013 00:33
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90622-a-34-a
Misc Info : 680-90622-A-34-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\dFASTPAHi.m
Meth Date : 29-May-2013 17:42 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 28
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	23.963	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.284	6.277	(1.000)	4043792	40.0000	
* 7	Acenaphthene-d10	164	7.953	7.945	(1.000)	2191485	40.0000	
* 11	Phenanthrene-d10	188	9.210	9.197	(1.000)	3433989	40.0000	
$ 15	o-Terphenyl	230	9.515	9.508	(1.033)	83262	1.65502	580
* 19	Chrysene-d12	240	11.578	11.559	(1.000)	3339182	40.0000	
* 24	Perylene-d12	264	13.499	13.456	(1.000)	3207096	40.0000	
2	Naphthalene	128	6.302	6.294	(1.003)	222215	2.22835	780
3	2-Methylnaphthalene	142	7.001	6.993	(1.114)	181151	2.85302	1000
4	1-Methylnaphthalene	142	7.095	7.087	(1.129)	176500	2.70013	950
5	1,1'-Biphenyl	154	7.435	7.428	(0.935)	71301	0.96300	340
6	Acenaphthylene	152	7.823	7.816	(0.984)	86638	0.95351	330
8	Acenaphthene	154	7.976	7.969	(1.003)	184913	3.20805	1100
9	Dibenzofuran	168	8.123	8.116	(1.021)	395751	4.97941	1700
10	Fluorene	166	8.417	8.409	(1.058)	82904	1.27119	450

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.233	9.214	(1.003)	5066251	54.4736	19000(A)
13 Anthracene	178	9.269	9.255	(1.006)	1333679	14.7794	5200
16 Fluoranthene	202	10.215	10.195	(1.109)	5175018	54.3902	19000(A)
17 Pyrene	202	10.403	10.383	(0.899)	4418248	45.1933	16000
18 Benzo(a)anthracene	228	11.560	11.541	(0.998)	2063195	20.8194	7300
20 Chrysene	228	11.607	11.582	(1.003)	1725495	19.3360	6800
21 Benzo(b)fluoranthene	252	12.935	12.898	(0.958)	1997901	24.8666	8700
22 Benzo(k)fluoranthene	252	12.964	12.939	(0.960)	819051	9.73472	3400
23 Benzo(a)pyrene	252	13.399	13.362	(0.993)	1395075	17.6375	6200
25 Indeno(1,2,3-cd)pyrene	276	15.144	15.101	(1.122)	595498	7.29161	2600(M)
26 Dibenzo(a,h)anthracene	278	15.162	15.143	(1.123)	149607	2.02381	710
27 Benzo(g,h,i)perylene	276	15.614	15.577	(1.157)	509524	6.99688	2400

QC Flag Legend

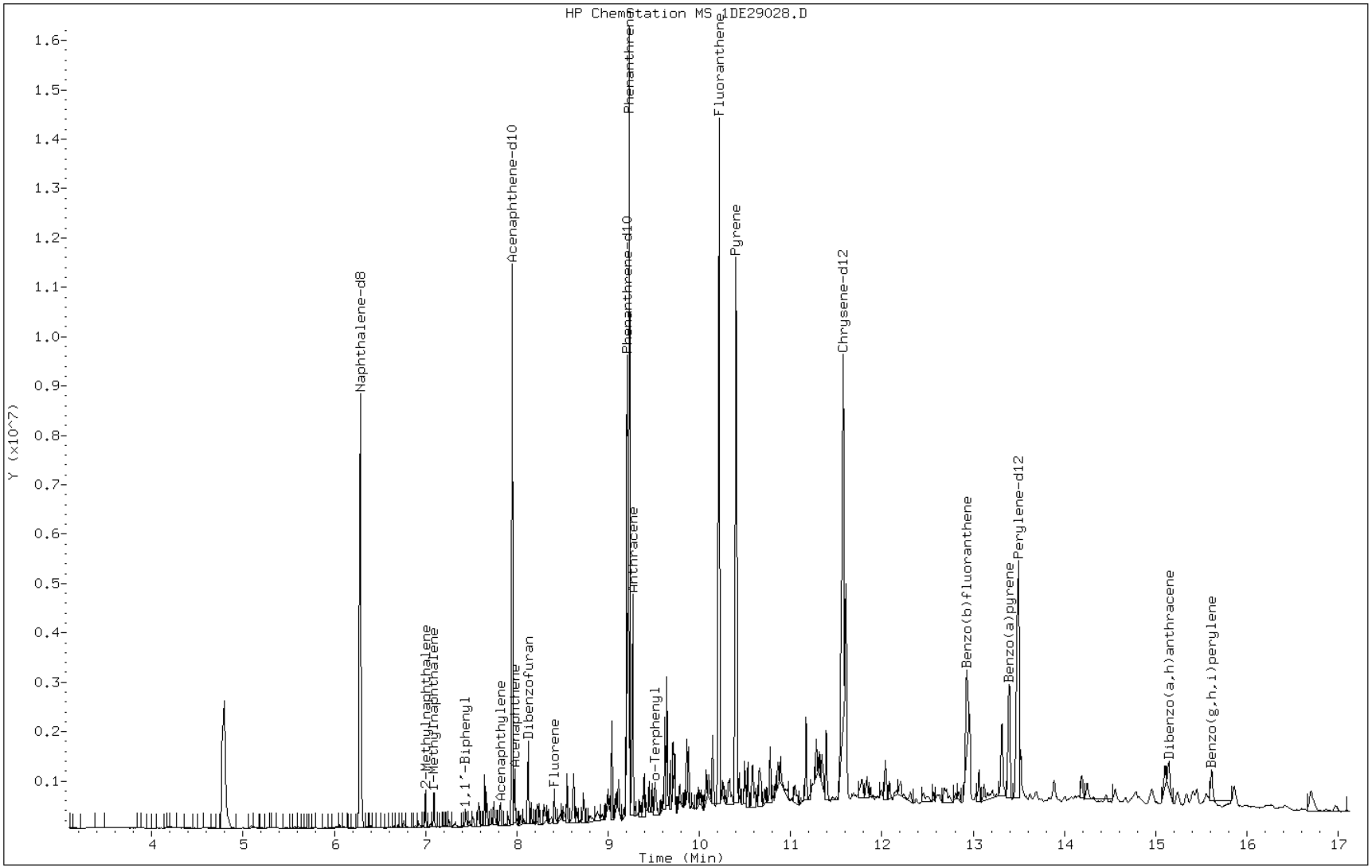
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1DE29028.D

Date: 30-MAY-2013 00:33

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-34-a Operator: SCC



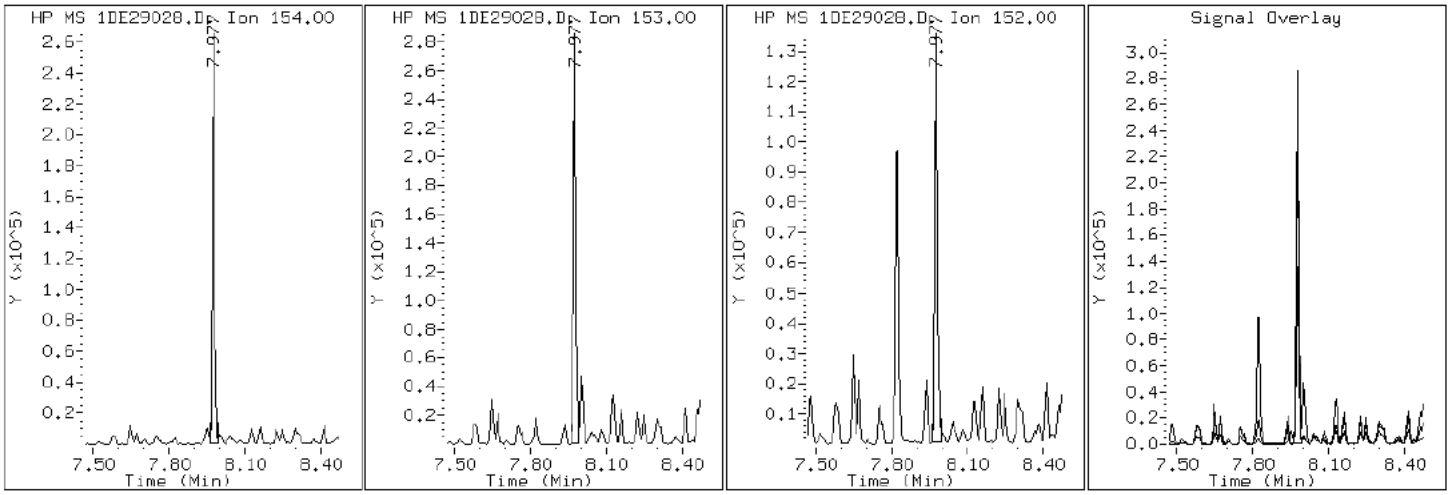
Data File: 1DE29028.D

Date: 30-MAY-2013 00:33

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-34-a Operator: SCC

8 Acenaphthene



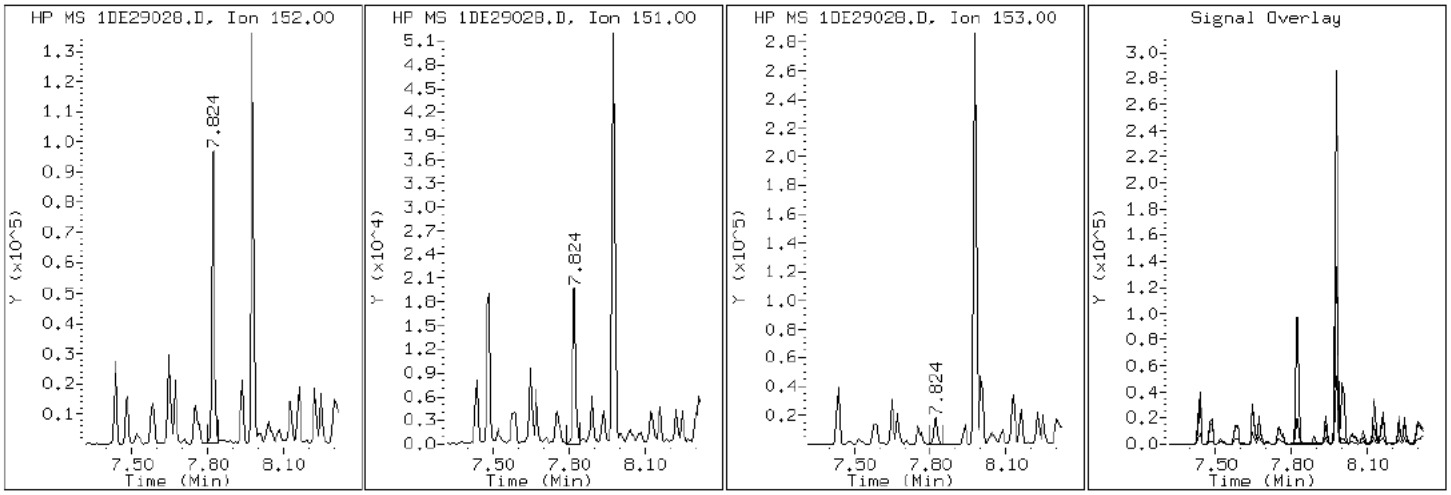
Data File: 1DE29028.D

Date: 30-MAY-2013 00:33

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-34-a Operator: SCC

6 Acenaphthylene



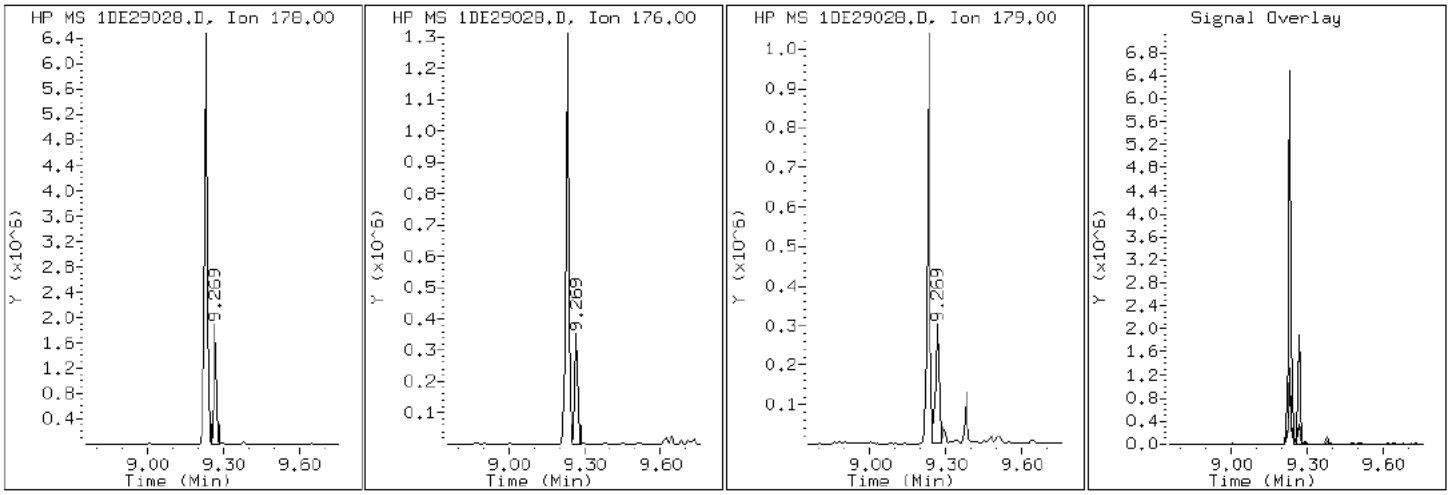
Data File: 1DE29028.D

Date: 30-MAY-2013 00:33

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-34-a Operator: SCC

13 Anthracene



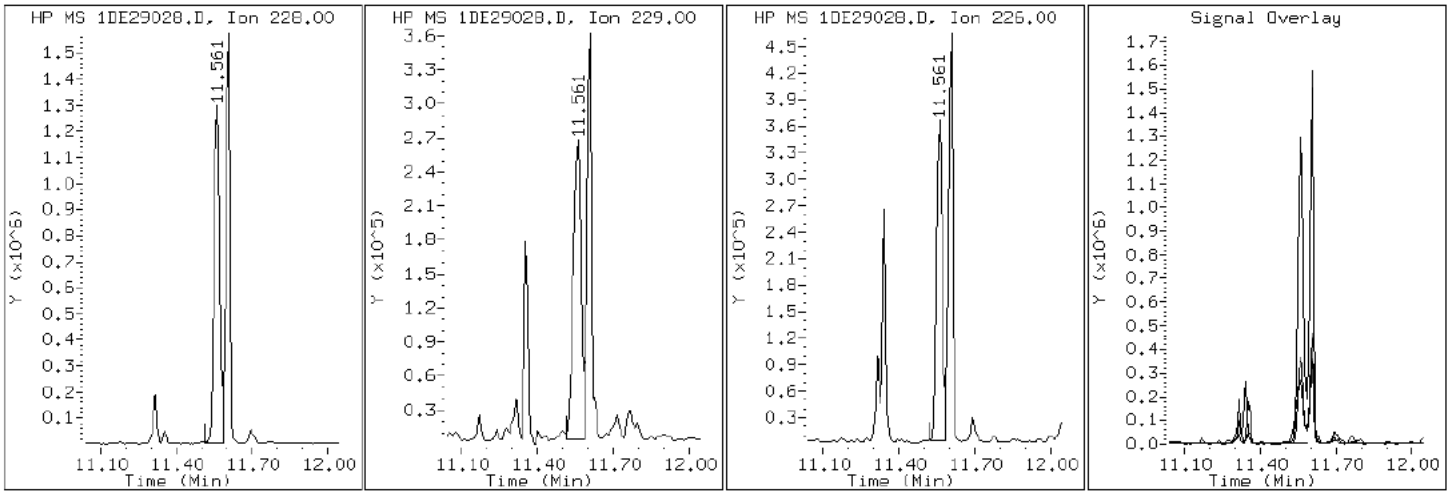
Data File: 1DE29028.D

Date: 30-MAY-2013 00:33

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-34-a Operator: SCC

18 Benzo(a)anthracene



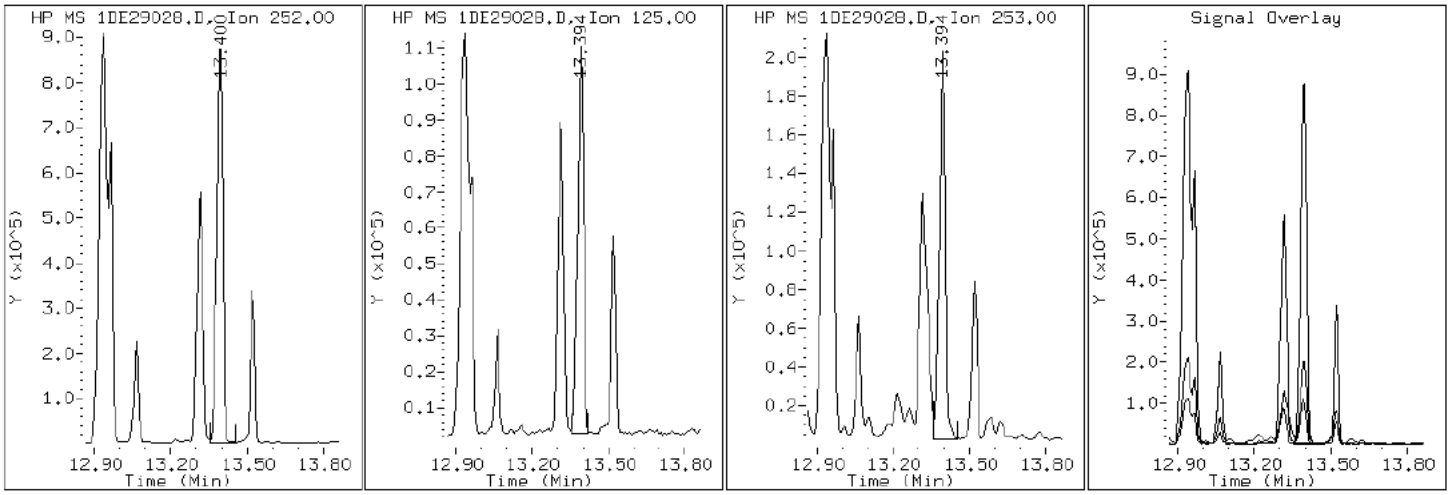
Data File: 1DE29028.D

Date: 30-MAY-2013 00:33

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-34-a Operator: SCC

23 Benzo(a)pyrene



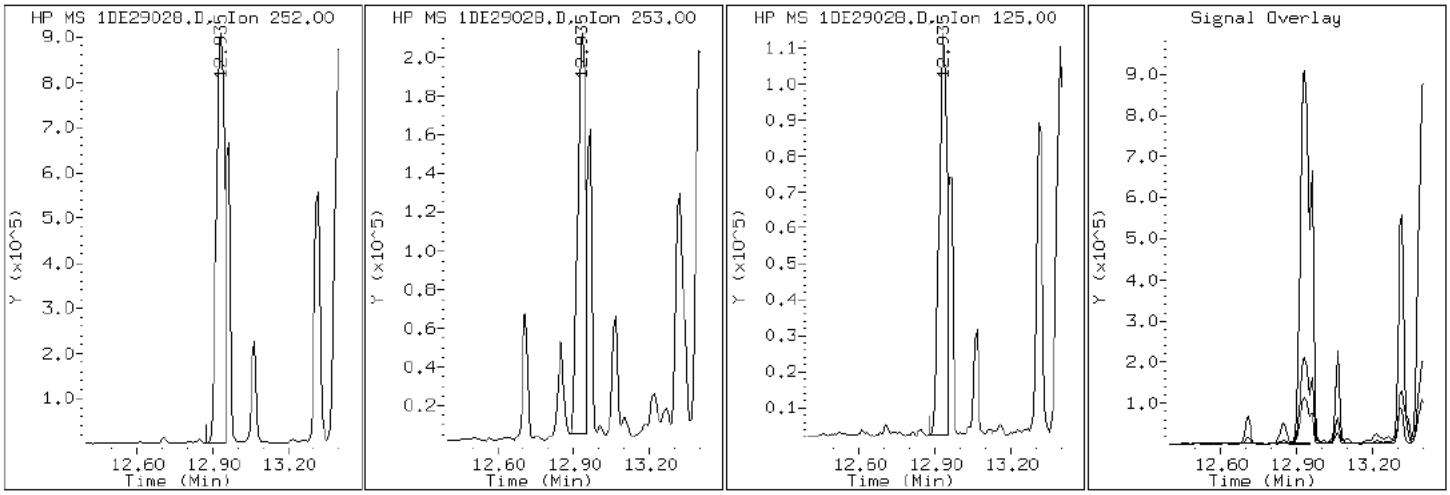
Data File: 1DE29028.D

Date: 30-MAY-2013 00:33

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-34-a Operator: SCC

21 Benzo(b)fluoranthene



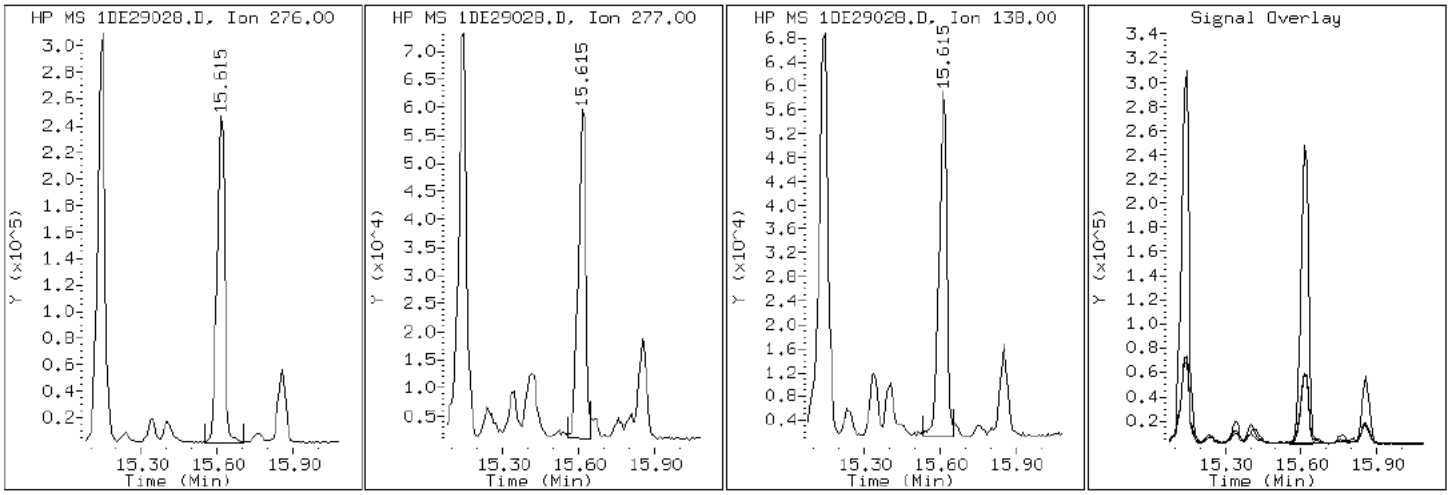
Data File: 1DE29028.D

Date: 30-MAY-2013 00:33

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-34-a Operator: SCC

27 Benzo(g,h,i)perylene



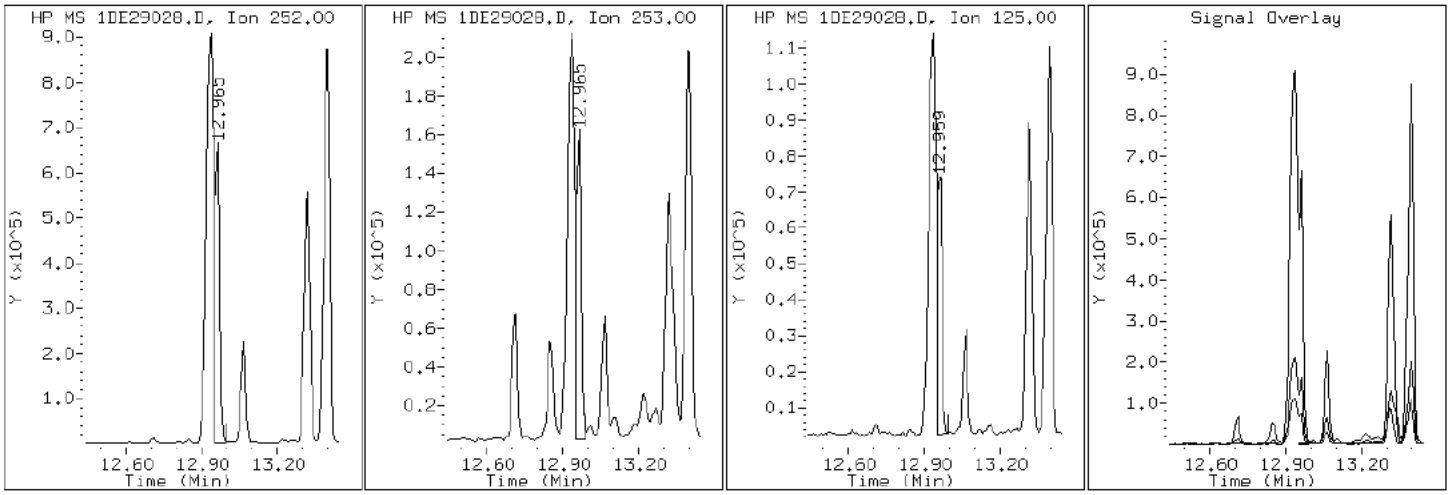
Data File: 1DE29028.D

Date: 30-MAY-2013 00:33

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-34-a Operator: SCC

22 Benzo(k)fluoranthene



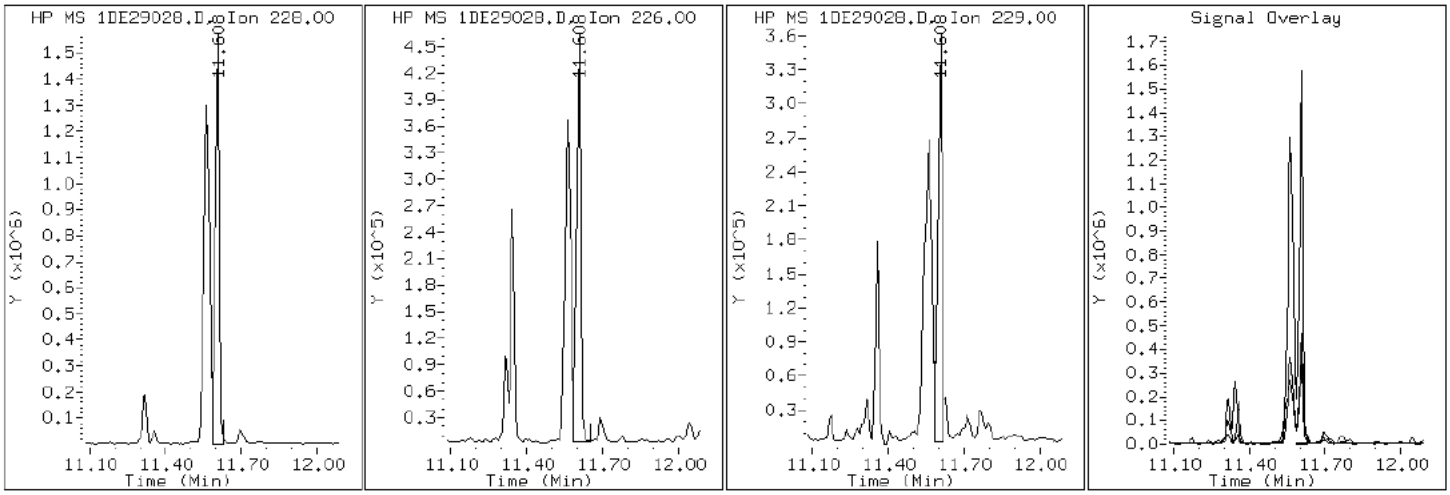
Data File: 1DE29028.D

Date: 30-MAY-2013 00:33

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-34-a Operator: SCC

20 Chrysene



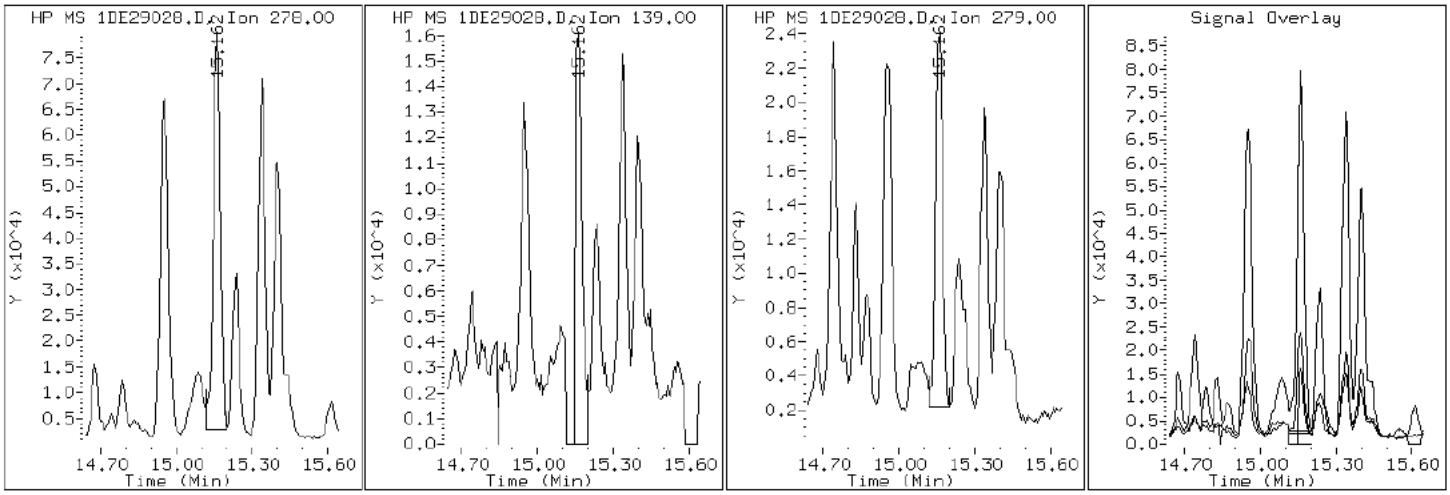
Data File: 1DE29028.D

Date: 30-MAY-2013 00:33

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-34-a Operator: SCC

26 Dibenzo(a,h)anthracene



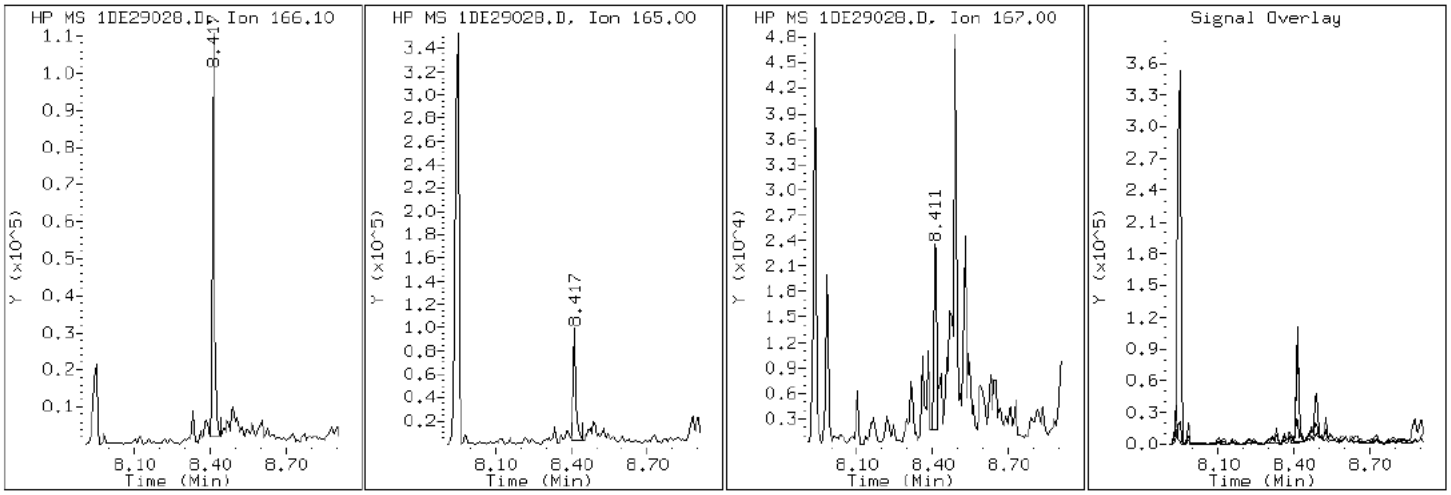
Data File: 1DE29028.D

Date: 30-MAY-2013 00:33

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-34-a Operator: SCC

10 Fluorene



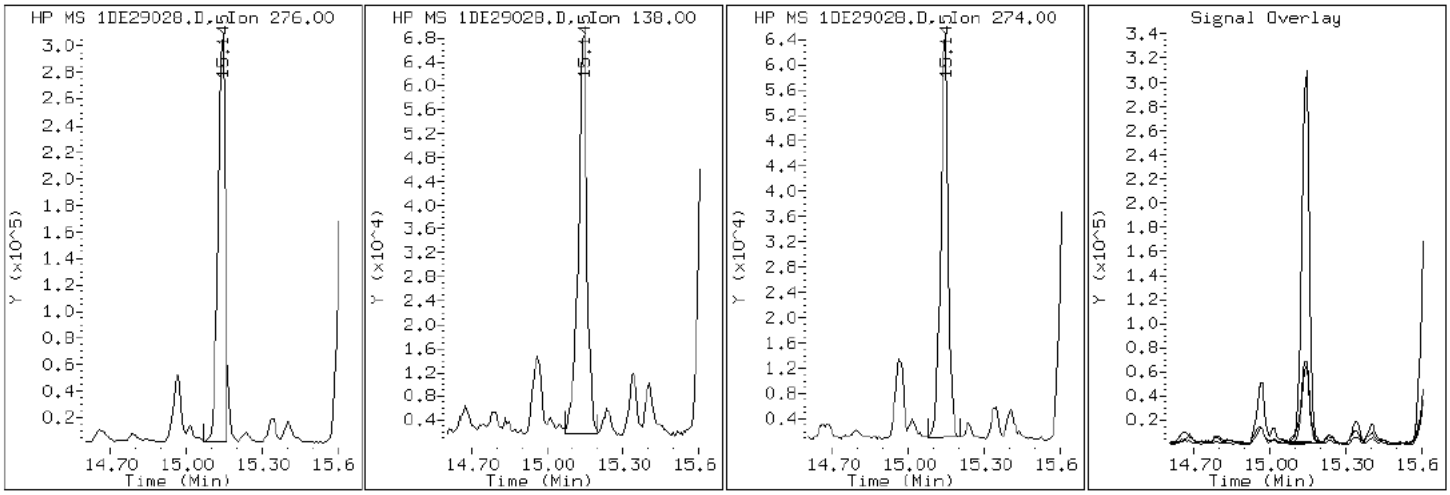
Data File: 1DE29028.D

Date: 30-MAY-2013 00:33

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-34-a Operator: SCC

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



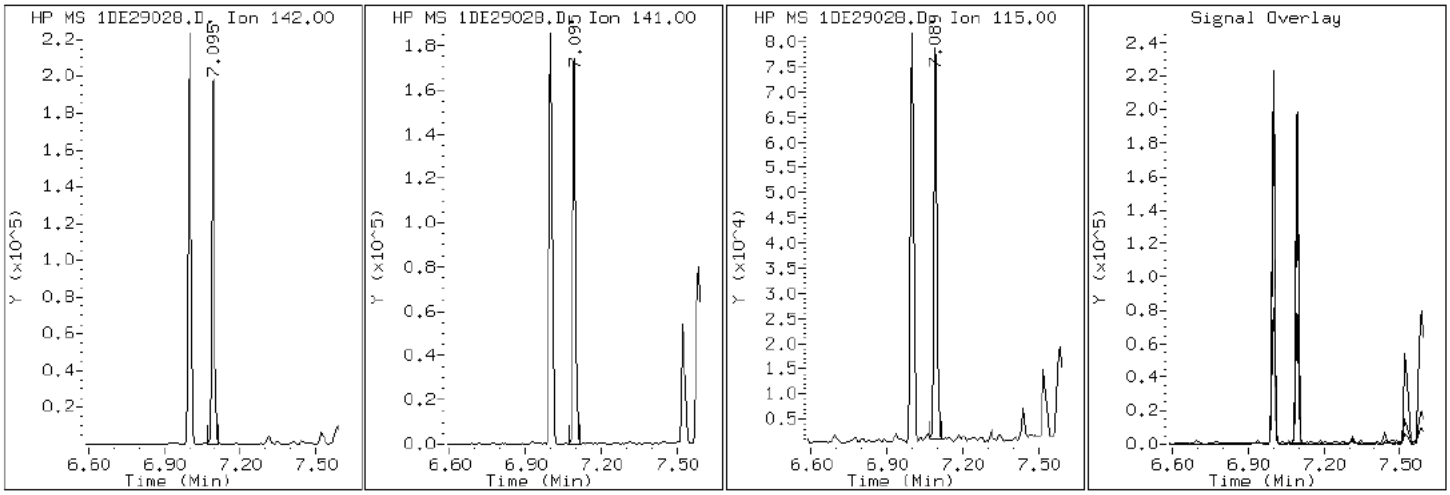
Data File: 1DE29028.D

Date: 30-MAY-2013 00:33

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-34-a Operator: SCC

4 1-Methylnaphthalene



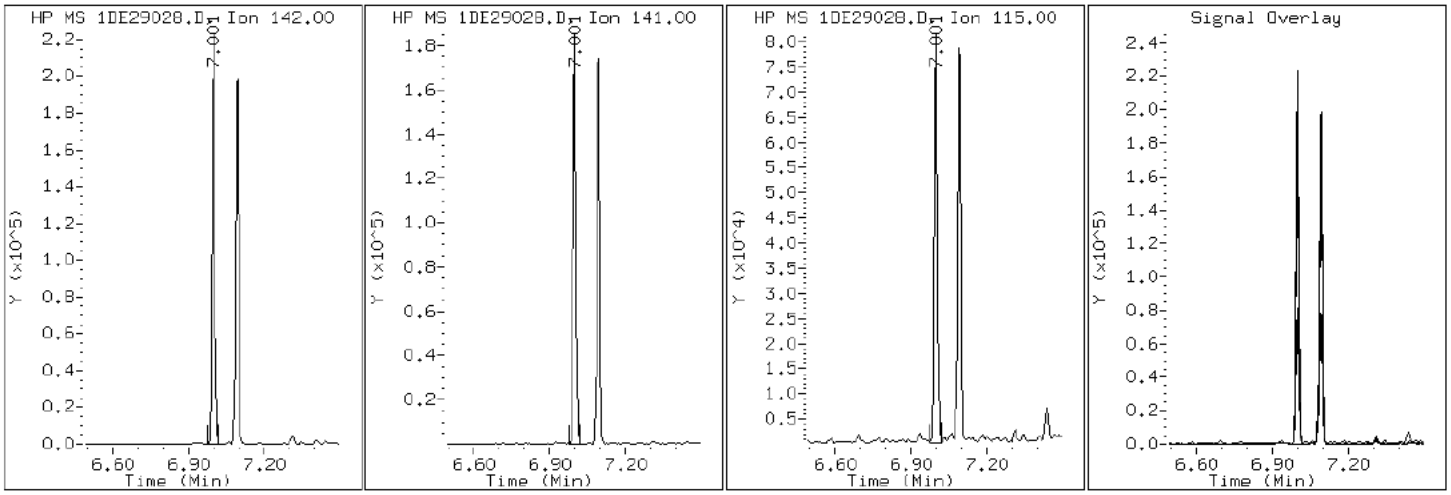
Data File: 1DE29028.D

Date: 30-MAY-2013 00:33

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-34-a Operator: SCC

3 2-Methylnaphthalene



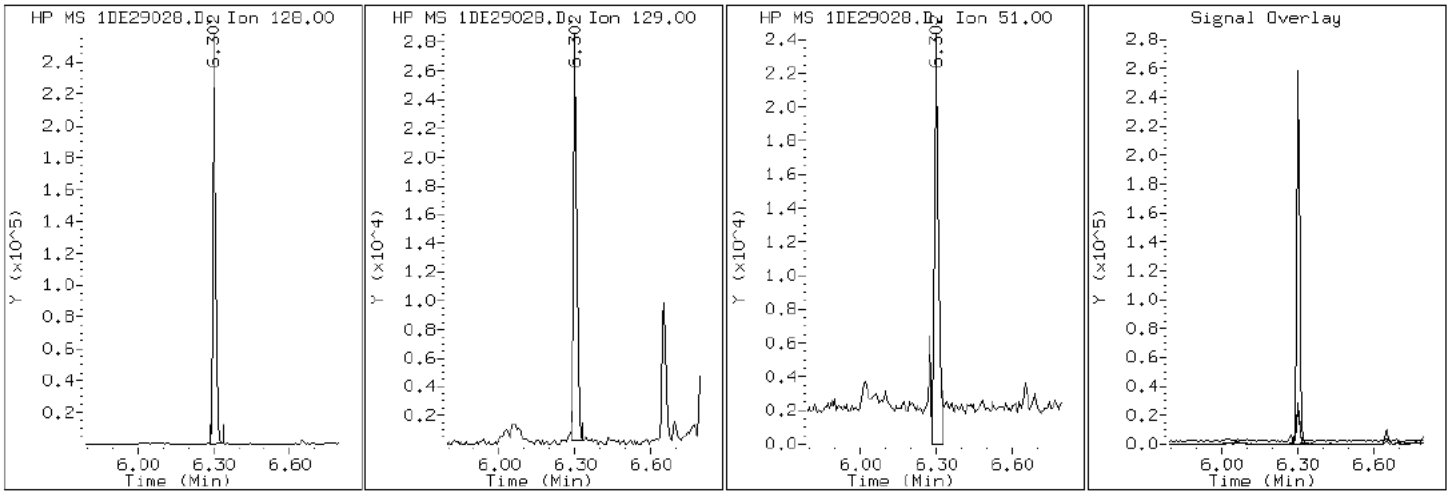
Data File: 1DE29028.D

Date: 30-MAY-2013 00:33

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-34-a Operator: SCC

2 Naphthalene



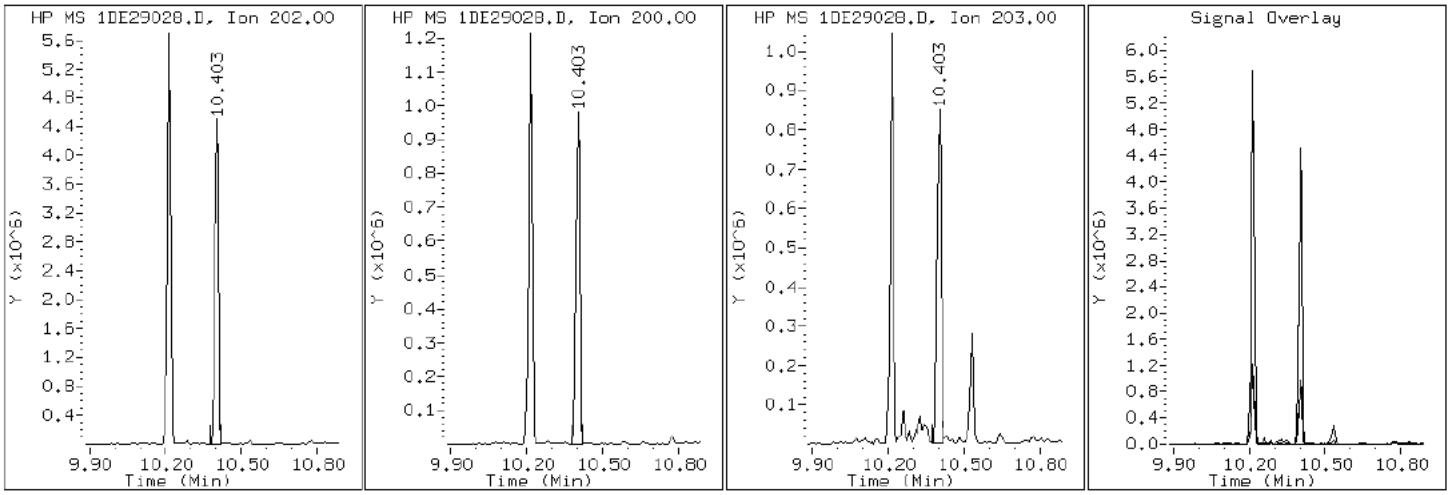
Data File: 1DE29028.D

Date: 30-MAY-2013 00:33

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-34-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DE29028.D
Inj. Date and Time: 30-MAY-2013 00:33
Instrument ID: BSMSD.i
Client ID: CV0912A-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

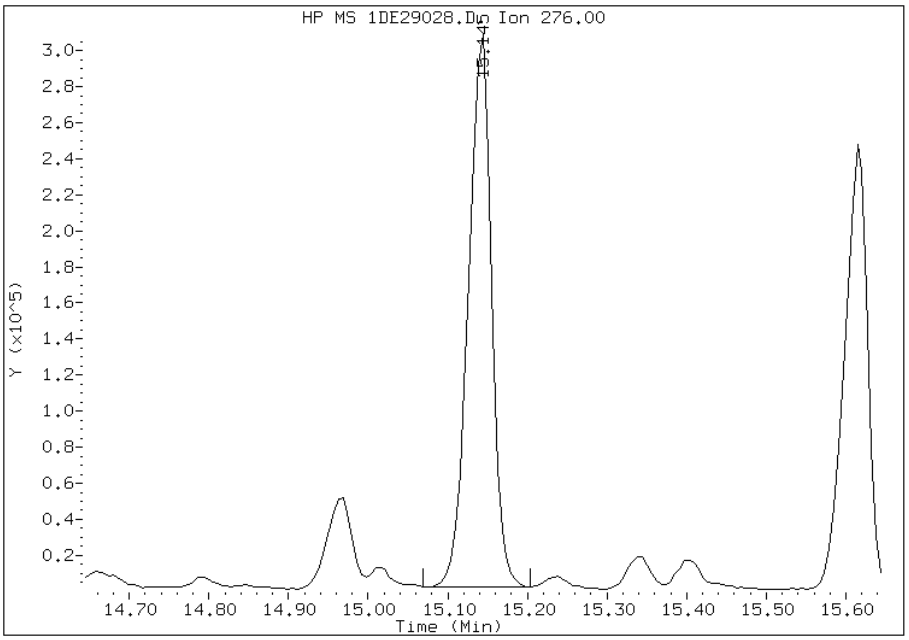
Processing Integration Results

RT: 15.14

Response: 617703

Amount: 8

Conc: 2652



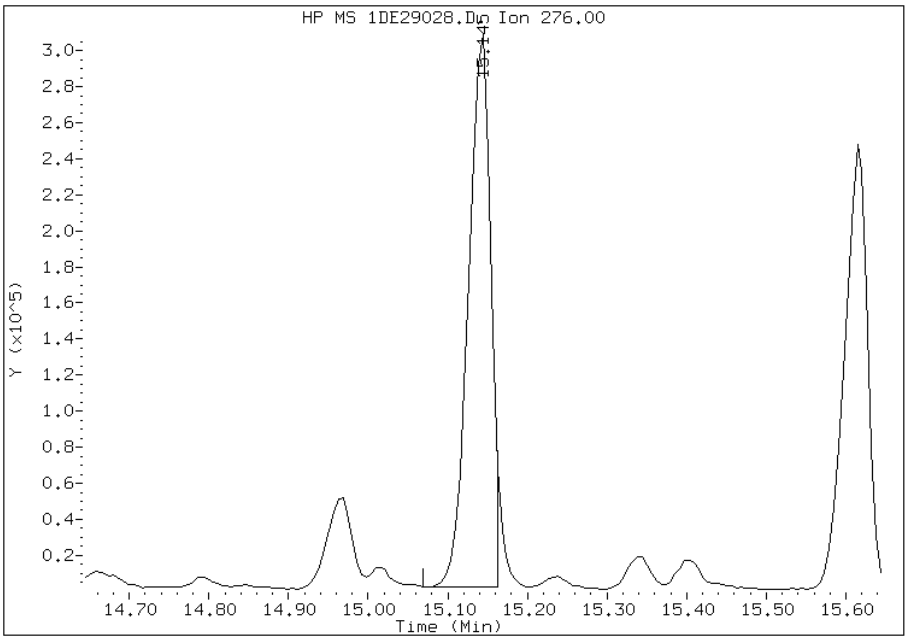
Manual Integration Results

RT: 15.14

Response: 595498

Amount: 7

Conc: 2559



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 15:15
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV0912A-CS-SP DL | Lab Sample ID: 680-90622-34 DL

Matrix: Solid | Lab File ID: 1DF03014.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 15:15

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 14.99(g) | Date Analyzed: 06/03/2013 17:18

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

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

% Moisture: 24.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138011 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	22000		530	110
85-01-8	Phenanthrene	24000	B	210	100

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03014.D
Lab Smp Id: 680-90622-A-34-A Client Smp ID: CV0912A-CS-SP
Inj Date : 03-JUN-2013 17:18
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90622-A-34-A
Misc Info : 680-90622-A-34-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\dFASTPAHi.m
Meth Date : 03-Jun-2013 11:25 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 14
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	20.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	23.963	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	6.278	6.278	(1.000)	3609907	40.0000	
*	7 Acenaphthene-d10	164	7.946	7.946	(1.000)	1990568	40.0000	
*	11 Phenanthrene-d10	188	9.204	9.204	(1.000)	3148934	40.0000	
$	15 o-Terphenyl	230	9.509	9.509	(1.033)	19871	0.43074	760
*	19 Chrysene-d12	240	11.566	11.566	(1.000)	2785097	40.0000	
*	24 Perylene-d12	264	13.475	13.469	(1.000)	3103639	40.0000	
	2 Naphthalene	128	6.295	6.295	(1.003)	46410	0.52133	910
	3 2-Methylnaphthalene	142	6.994	6.995	(1.114)	37195	0.65621	1200
	4 1-Methylnaphthalene	142	7.088	7.089	(1.129)	37561	0.64368	1100
	5 1,1'-Biphenyl	154	7.429	7.429	(0.935)	15325	0.22787	400
	6 Acenaphthylene	152	7.817	7.817	(0.984)	17501	0.21205	370
	8 Acenaphthene	154	7.970	7.970	(1.003)	40488	0.77332	1400
	9 Dibenzofuran	168	8.117	8.117	(1.021)	84072	1.16458	2000
	10 Fluorene	166	8.410	8.411	(1.058)	17636	0.29771	520

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.221	9.221	(1.002)	1160292	13.6051	24000
13 Anthracene	178	9.262	9.263	(1.006)	293529	3.54724	6200
16 Fluoranthene	202	10.202	10.203	(1.109)	1114459	12.7734	22000
17 Pyrene	202	10.390	10.391	(0.898)	940973	11.5399	20000
18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	410196	4.96271	8700
20 Chrysene	228	11.589	11.595	(1.002)	343092	4.60960	8100
21 Benzo(b)fluoranthene	252	12.905	12.911	(0.958)	404865	5.20706	9100
22 Benzo(k)fluoranthene	252	12.940	12.946	(0.960)	185347	2.27635	4000
23 Benzo(a)pyrene	252	13.369	13.375	(0.992)	310820	4.13640	7200
25 Indeno(1,2,3-cd)pyrene	276	15.114	15.120	(1.122)	183980	2.42862	4300
26 Dibenzo(a,h)anthracene	278	15.144	15.162	(1.124)	42826	0.64932	1100
27 Benzo(g,h,i)perylene	276	15.579	15.602	(1.156)	163020	2.31324	4000(H)

QC Flag Legend

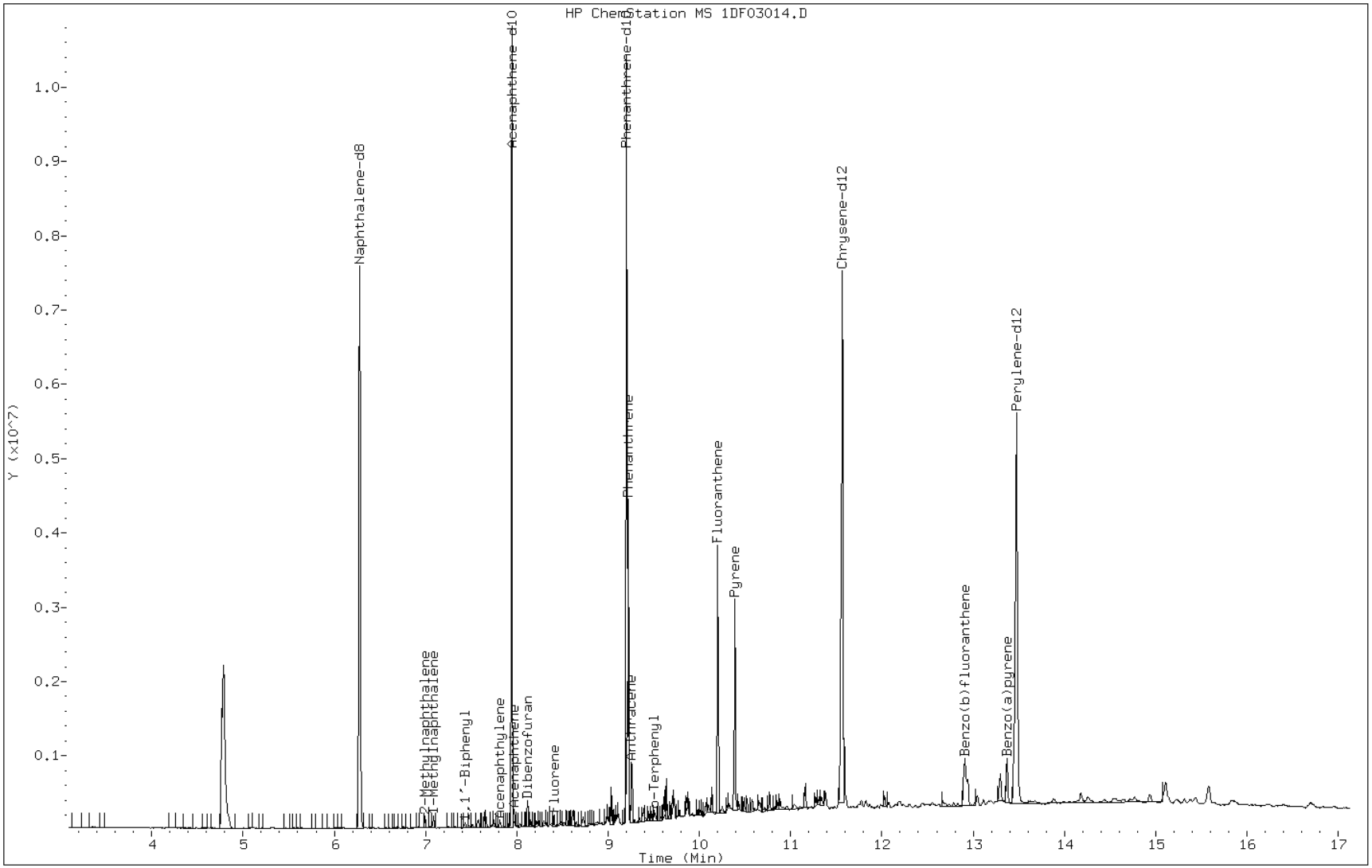
H - Operator selected an alternate compound hit.

Data File: 1DF03014.D

Date: 03-JUN-2013 17:18

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-34-A Operator: SCC



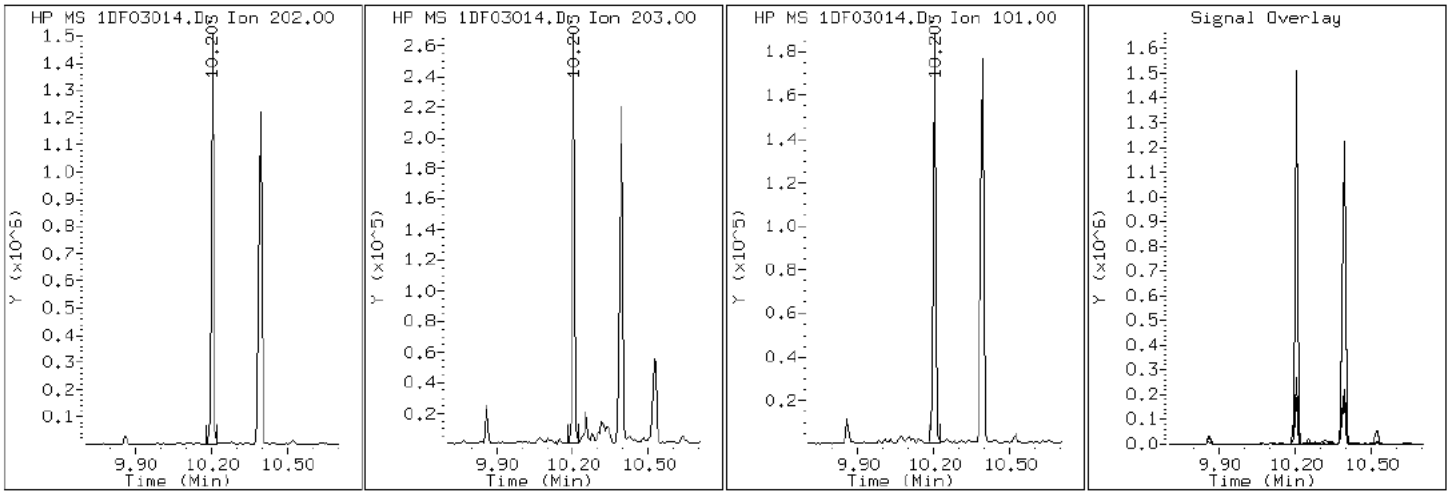
Data File: 1DF03014.D

Date: 03-JUN-2013 17:18

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-34-A Operator: SCC

16 Fluoranthene



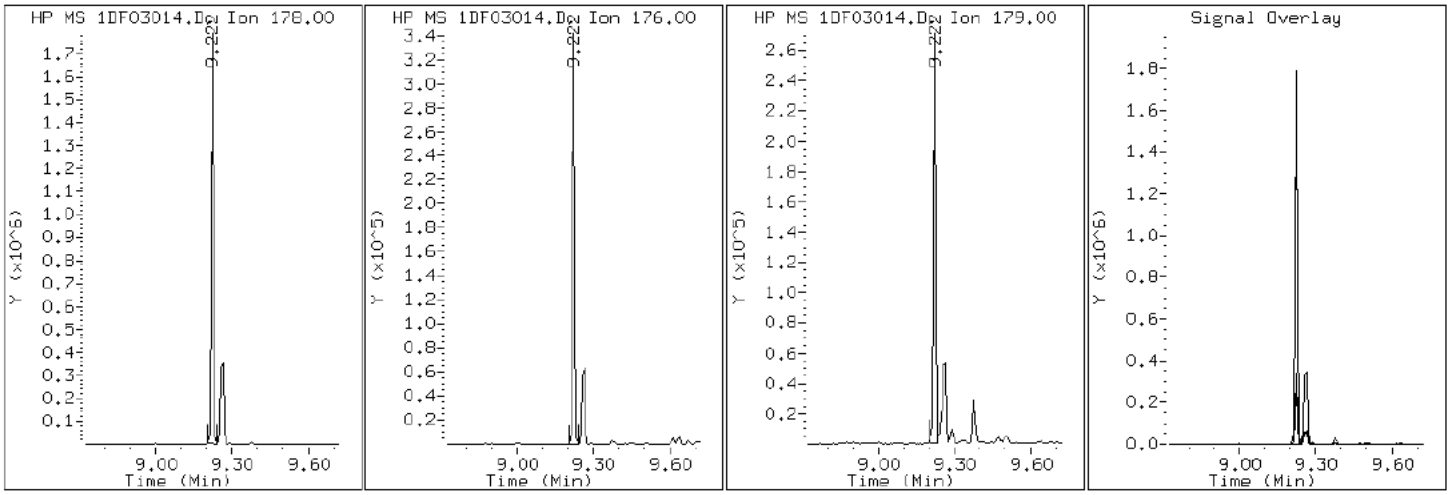
Data File: 1DF03014.D

Date: 03-JUN-2013 17:18

Client ID: CV0912A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-A-34-A Operator: SCC

12 Phenanthrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV0912B-CS-SP | Lab Sample ID: 680-90622-35

Matrix: Solid | Lab File ID: 1DE29029.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 15:22

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 15.20(g) | Date Analyzed: 05/30/2013 00:55

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

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

% Moisture: 24.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137911 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	J	520	100
208-96-8	Acenaphthylene	96	J	210	26
120-12-7	Anthracene	390		44	22
56-55-3	Benzo[a]anthracene	1000		42	20
50-32-8	Benzo[a]pyrene	900		54	27
205-99-2	Benzo[b]fluoranthene	1400		64	32
191-24-2	Benzo[g,h,i]perylene	390		100	23
207-08-9	Benzo[k]fluoranthene	620		42	19
218-01-9	Chrysene	1100		47	24
53-70-3	Dibenz(a,h)anthracene	150		100	21
206-44-0	Fluoranthene	2100		100	21
86-73-7	Fluorene	120		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	430		100	37
90-12-0	1-Methylnaphthalene	89	J	210	23
91-57-6	2-Methylnaphthalene	120	J	210	37
91-20-3	Naphthalene	100	J	210	23
85-01-8	Phenanthrene	1400	B	42	20
129-00-0	Pyrene	1600		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\1DE29029.D
Lab Smp Id: 680-90622-A-35-A Client Smp ID: CV0912B-CS-SP
Inj Date : 30-MAY-2013 00:55
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90622-a-35-a
Misc Info : 680-90622-A-35-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\dFASTPAHi.m
Meth Date : 29-May-2013 17:42 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 29
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.200	Weight Extracted
M	24.503	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.286	6.277	(1.000)	4126268	40.0000	
* 7	Acenaphthene-d10	164	7.949	7.945	(1.000)	2271886	40.0000	
* 11	Phenanthrene-d10	188	9.206	9.197	(1.000)	3515399	40.0000	
$ 15	o-Terphenyl	230	9.512	9.508	(1.033)	72559	1.40887	490
* 19	Chrysene-d12	240	11.574	11.559	(1.000)	3381990	40.0000	
* 24	Perylene-d12	264	13.484	13.456	(1.000)	3232180	40.0000	
2	Naphthalene	128	6.304	6.294	(1.003)	29994	0.29476	100
3	2-Methylnaphthalene	142	6.997	6.993	(1.113)	22409	0.34587	120
4	1-Methylnaphthalene	142	7.091	7.087	(1.128)	16959	0.25426	89
5	1,1'-Biphenyl	154	7.438	7.428	(0.936)	6274	0.08174	28
6	Acenaphthylene	152	7.820	7.816	(0.984)	25942	0.27541	96
8	Acenaphthene	154	7.973	7.969	(1.003)	25356	0.42433	150
9	Dibenzofuran	168	8.120	8.116	(1.021)	18136	0.22011	77
10	Fluorene	166	8.413	8.409	(1.058)	23142	0.34228	120

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.224	9.214	(1.002)	389866	4.09486	1400
13 Anthracene	178	9.265	9.255	(1.006)	103678	1.12232	390
16 Fluoranthene	202	10.205	10.195	(1.108)	599226	6.15210	2100
17 Pyrene	202	10.393	10.383	(0.898)	464734	4.69350	1600
18 Benzo(a)anthracene	228	11.551	11.541	(0.998)	292586	2.91507	1000
20 Chrysene	228	11.598	11.582	(1.002)	284179	3.14422	1100
21 Benzo(b)fluoranthene	252	12.914	12.898	(0.958)	322188	3.97894	1400
22 Benzo(k)fluoranthene	252	12.943	12.939	(0.960)	150420	1.77392	620
23 Benzo(a)pyrene	252	13.378	13.362	(0.992)	199394	2.58582	900
25 Indeno(1,2,3-cd)pyrene	276	15.123	15.101	(1.122)	91381	1.23573	430(M)
26 Dibenzo(a,h)anthracene	278	15.152	15.143	(1.124)	28310	0.43845	150
27 Benzo(g,h,i)perylene	276	15.593	15.577	(1.156)	81724	1.11354	390

QC Flag Legend

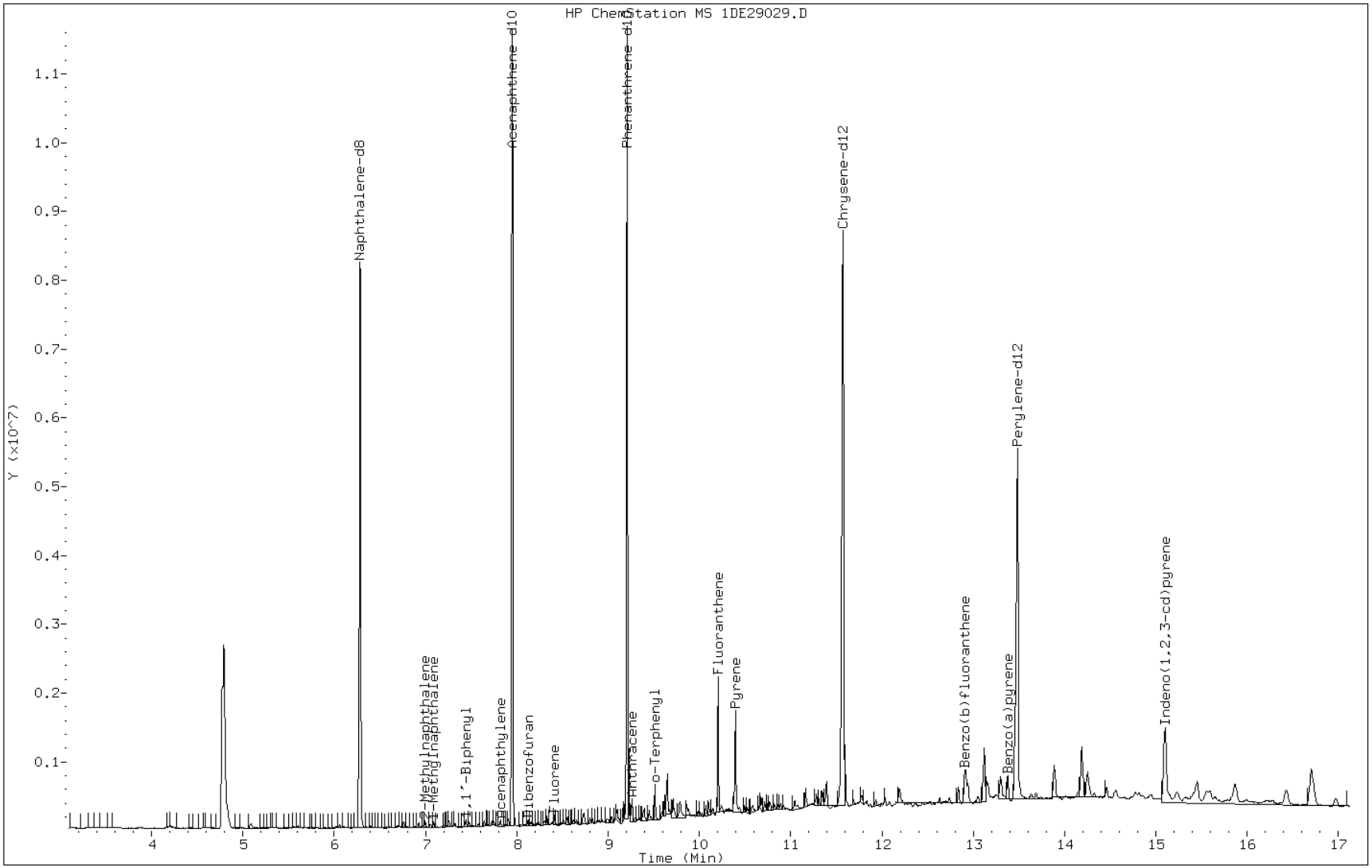
M - Compound response manually integrated.

Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC



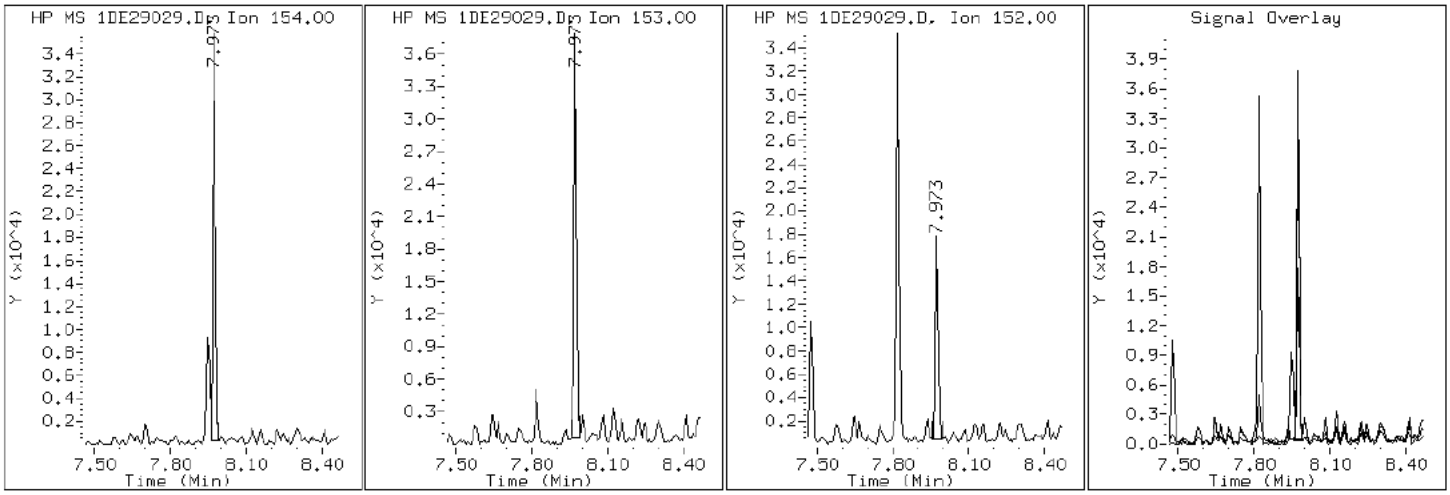
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

8 Acenaphthene



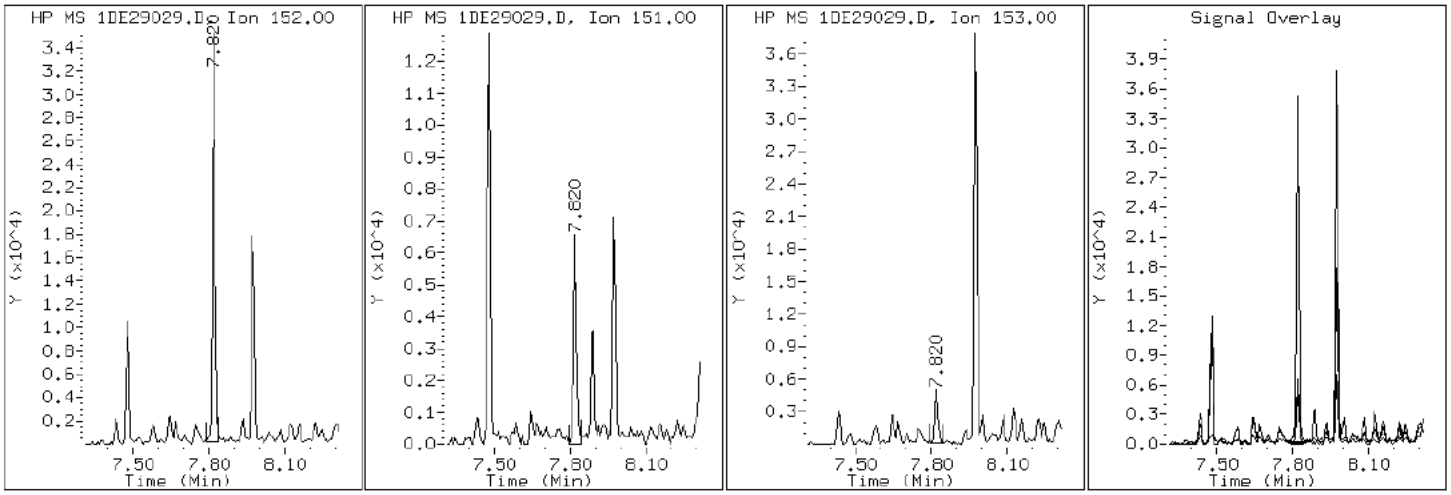
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

6 Acenaphthylene



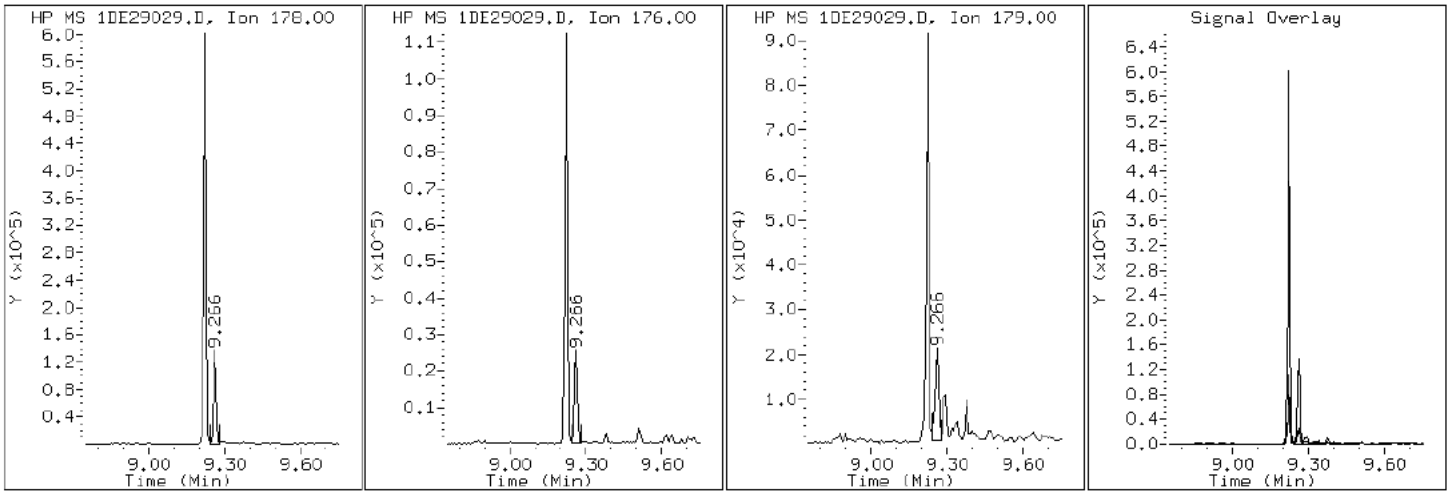
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

13 Anthracene



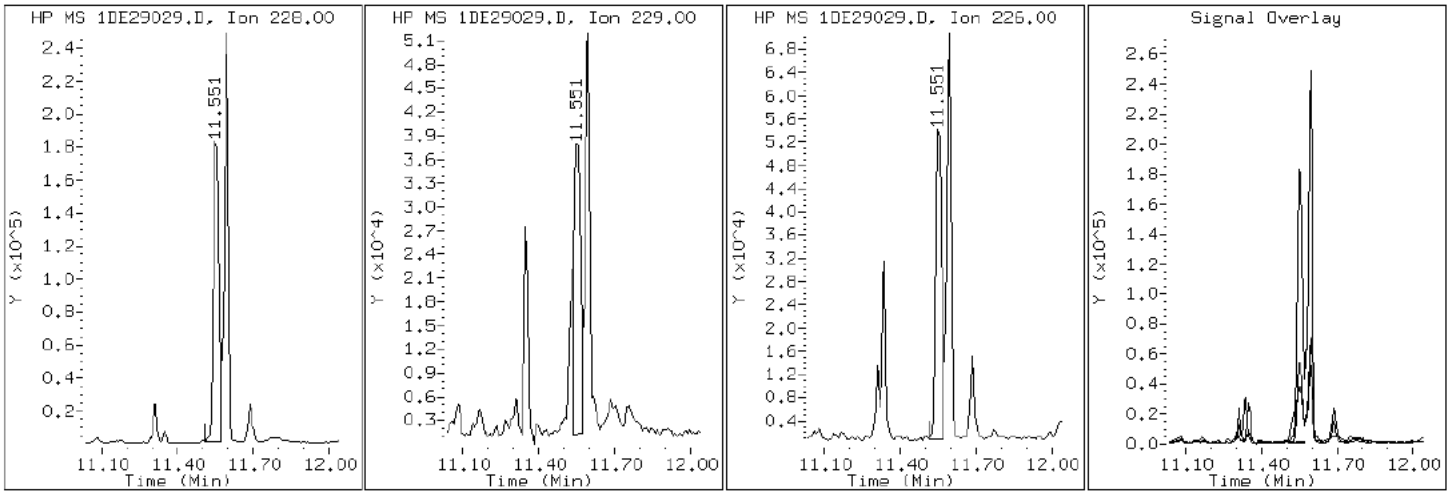
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

18 Benzo(a)anthracene



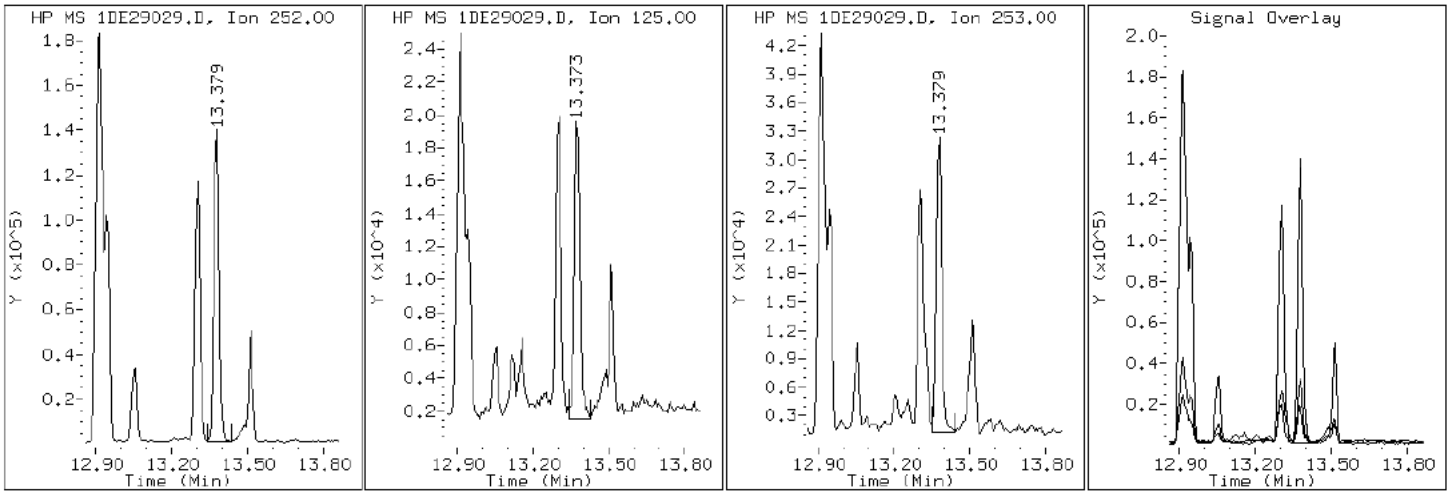
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

23 Benzo(a)pyrene



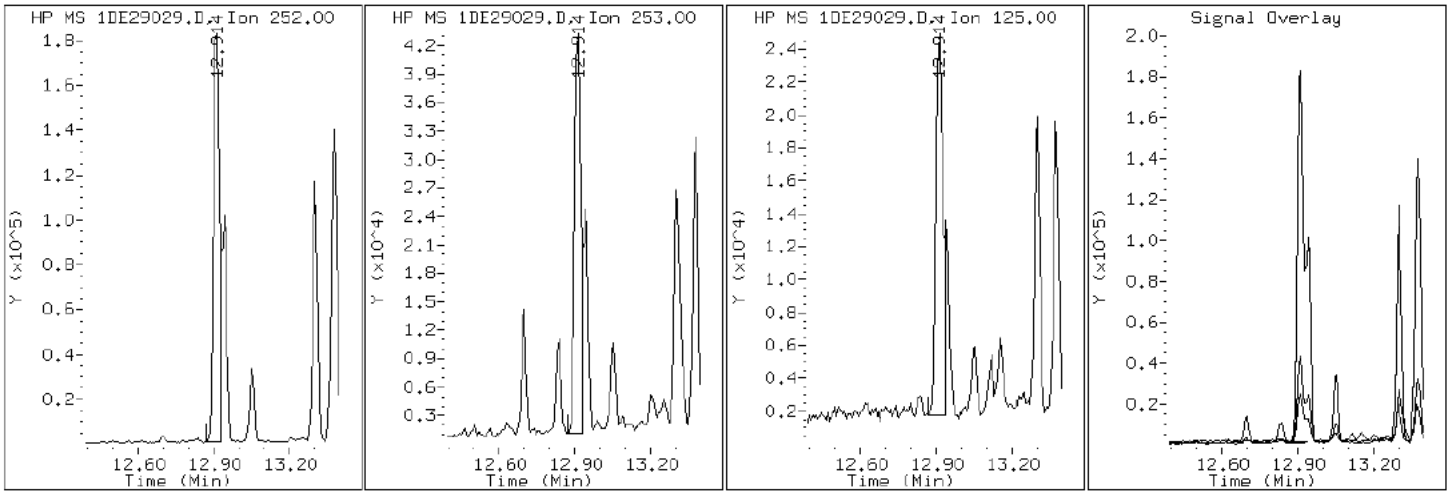
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

21 Benzo(b)fluoranthene



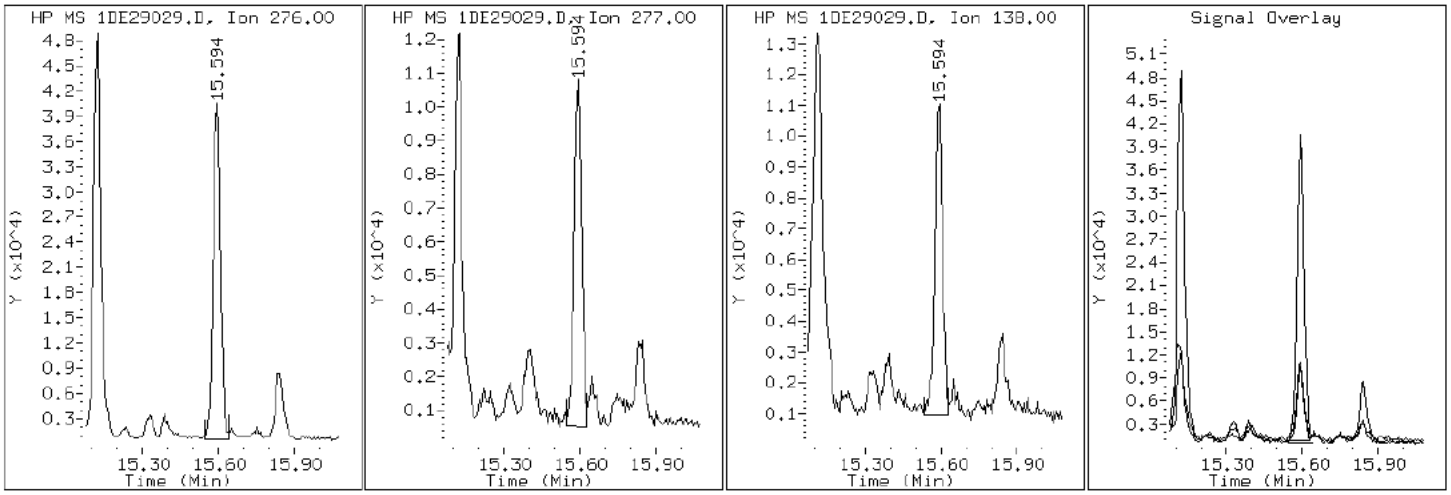
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

27 Benzo(g,h,i)perylene



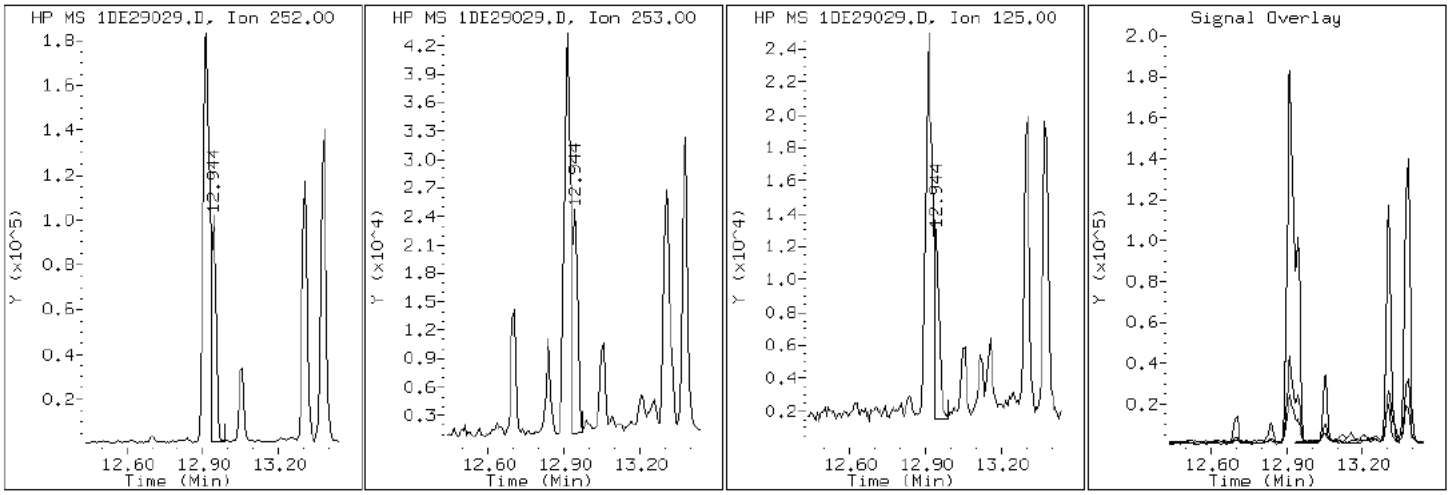
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

22 Benzo(k)fluoranthene



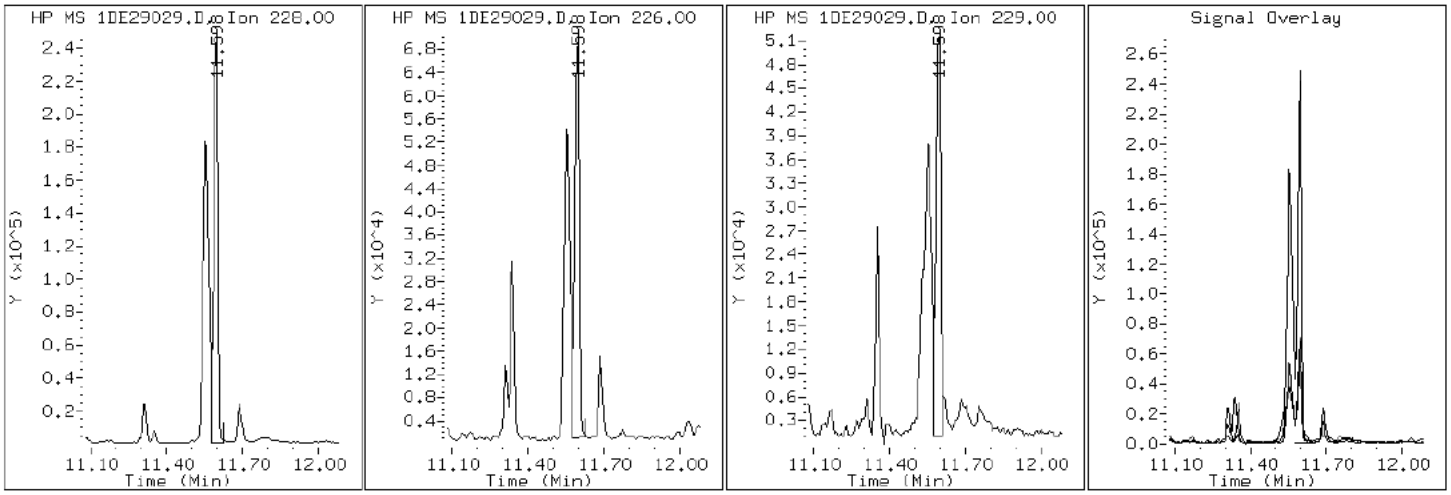
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

20 Chrysene



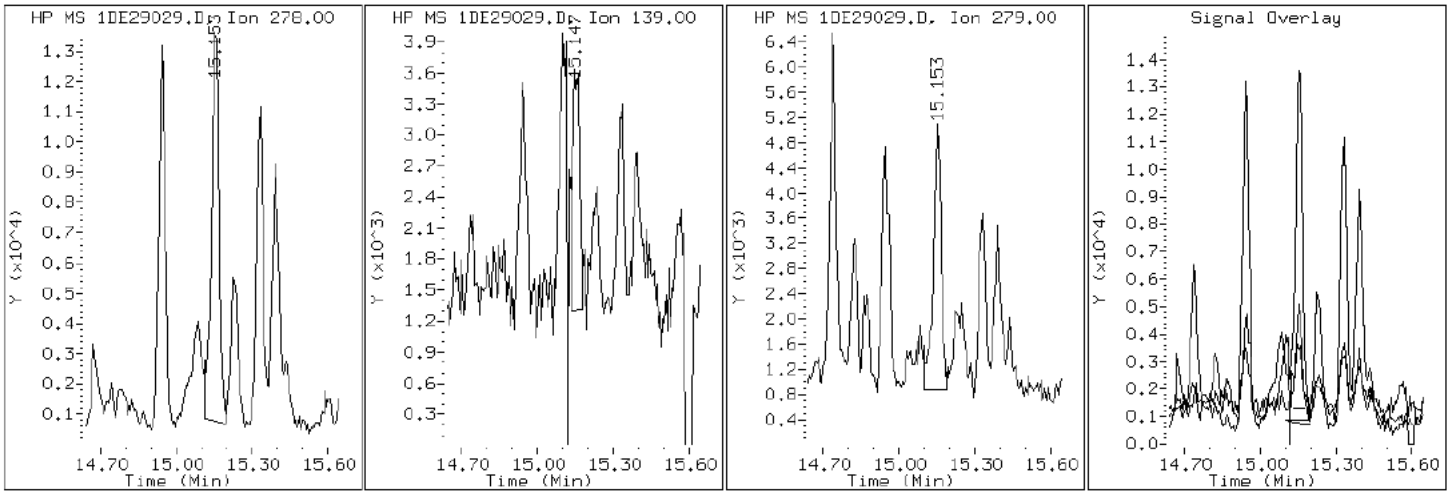
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

26 Dibenzo(a,h)anthracene



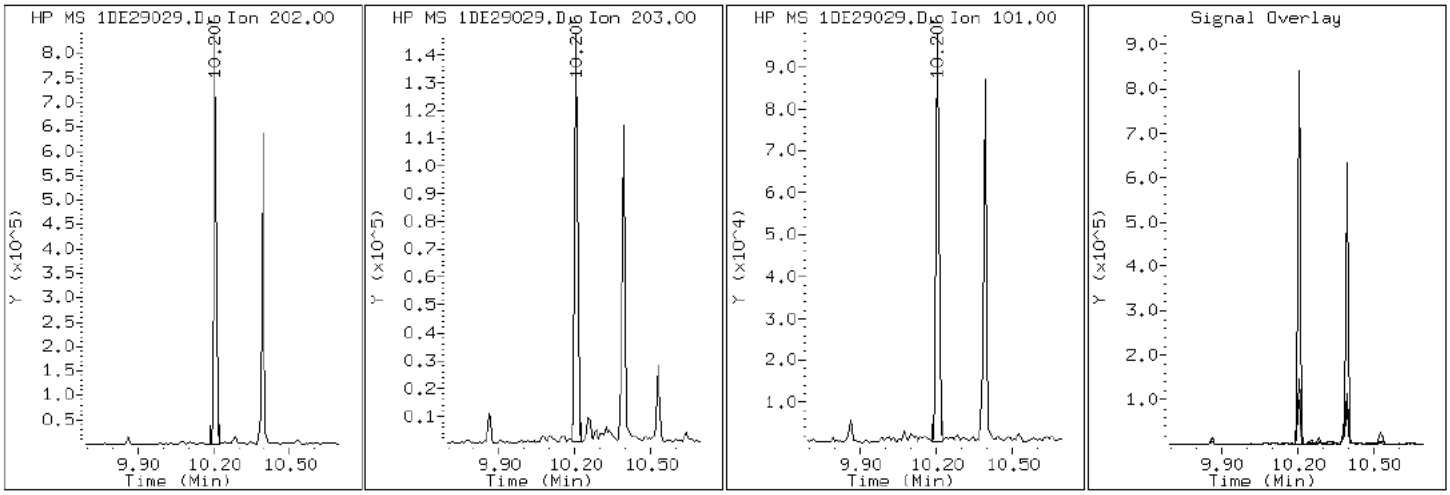
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

16 Fluoranthene



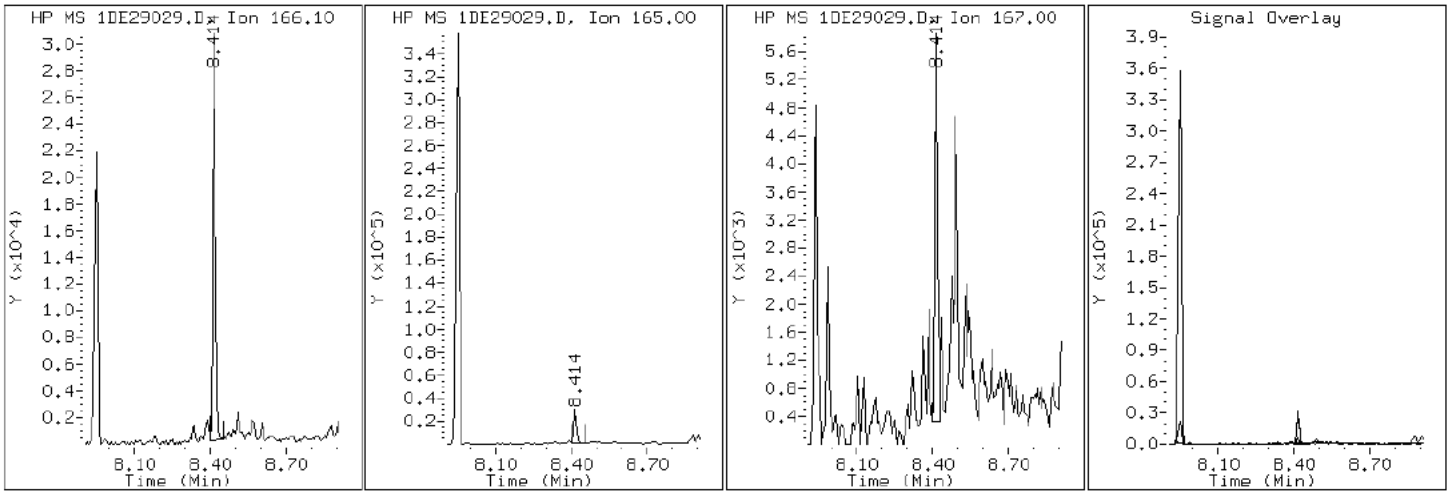
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

10 Fluorene



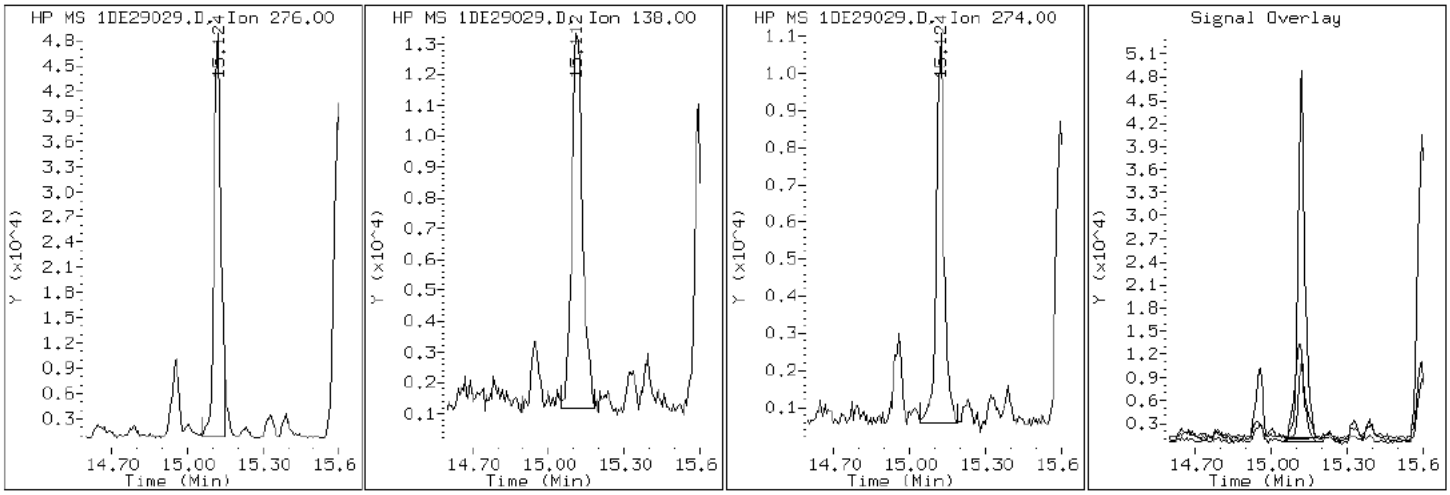
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

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



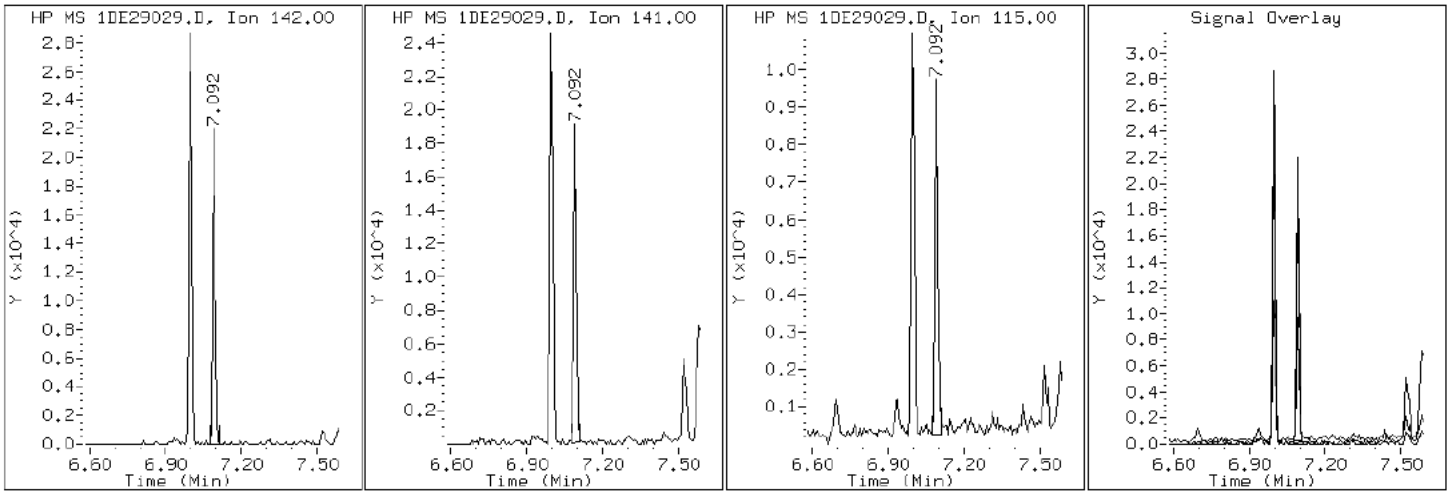
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

4 1-Methylnaphthalene



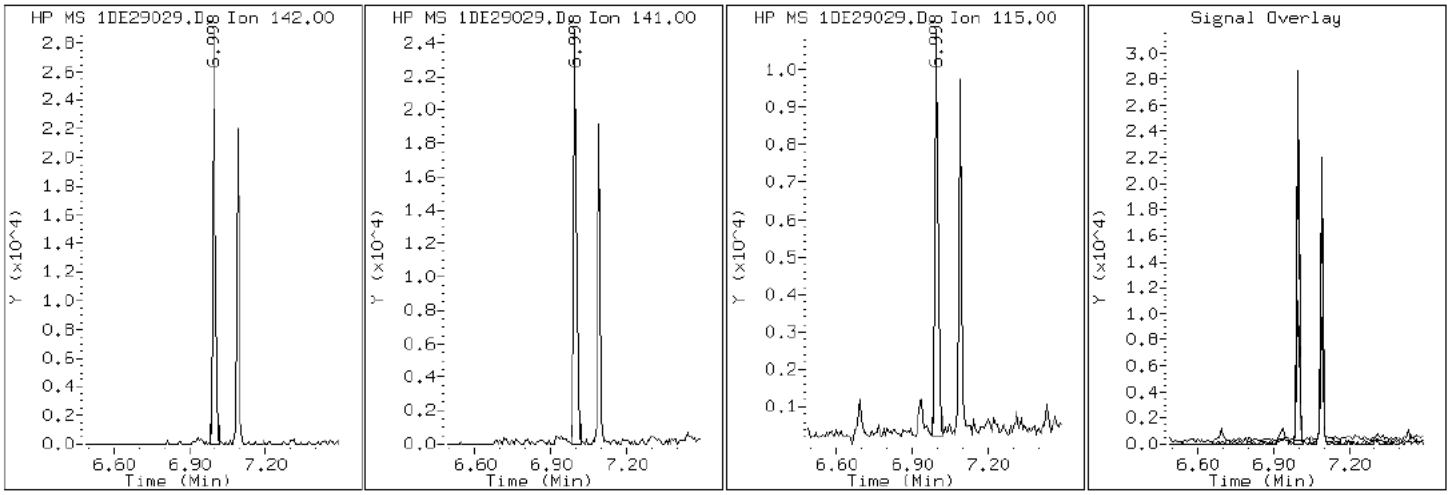
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

3 2-Methylnaphthalene



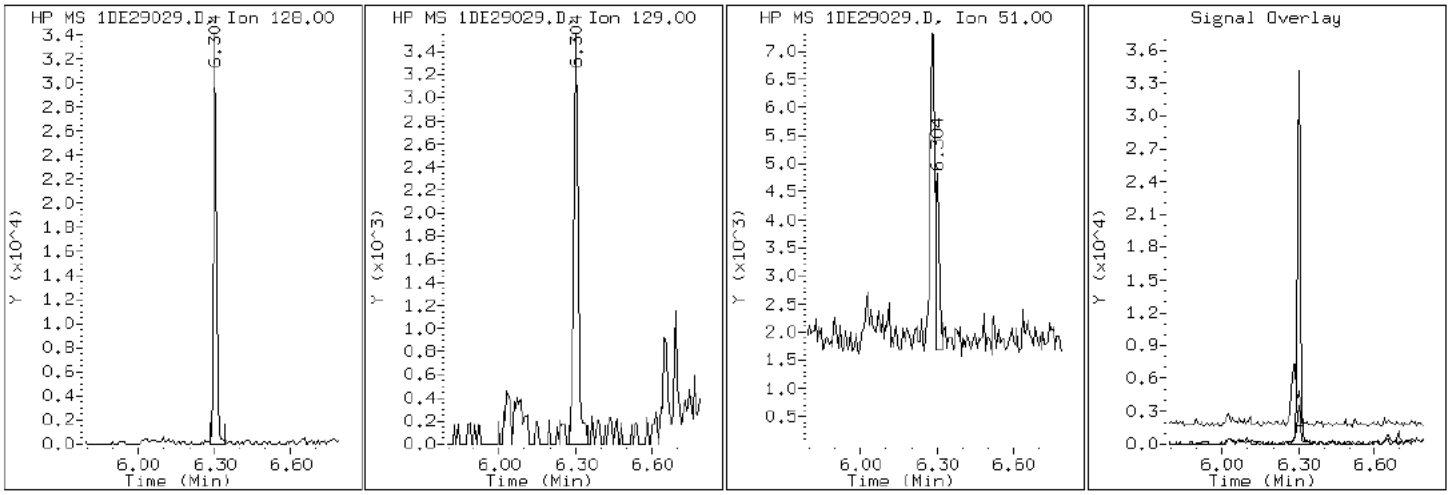
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

2 Naphthalene



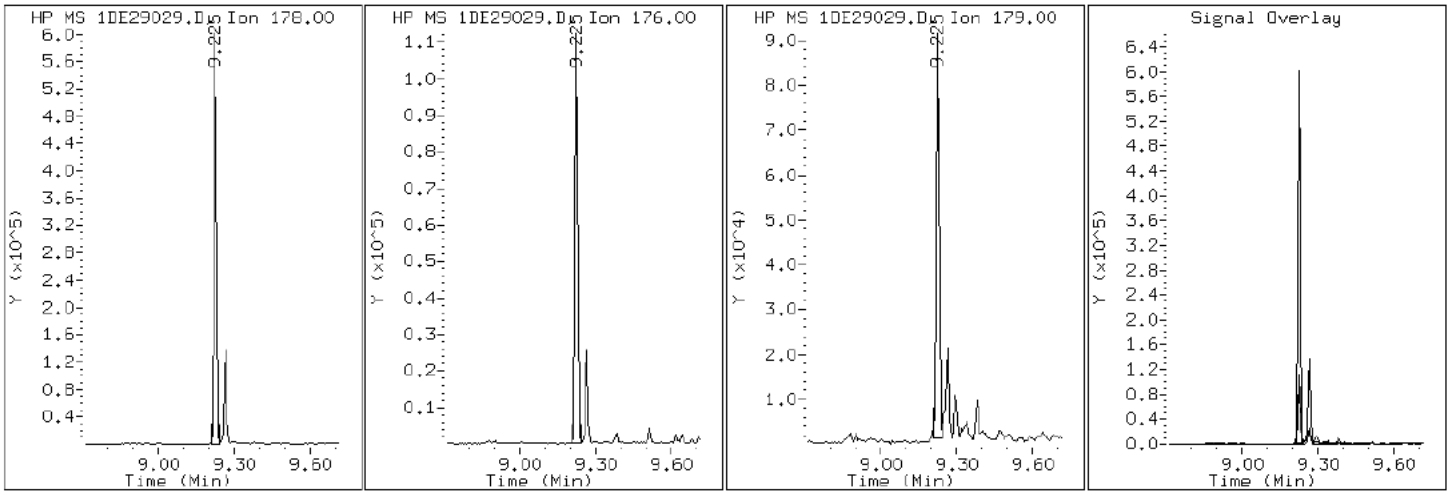
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

12 Phenanthrene



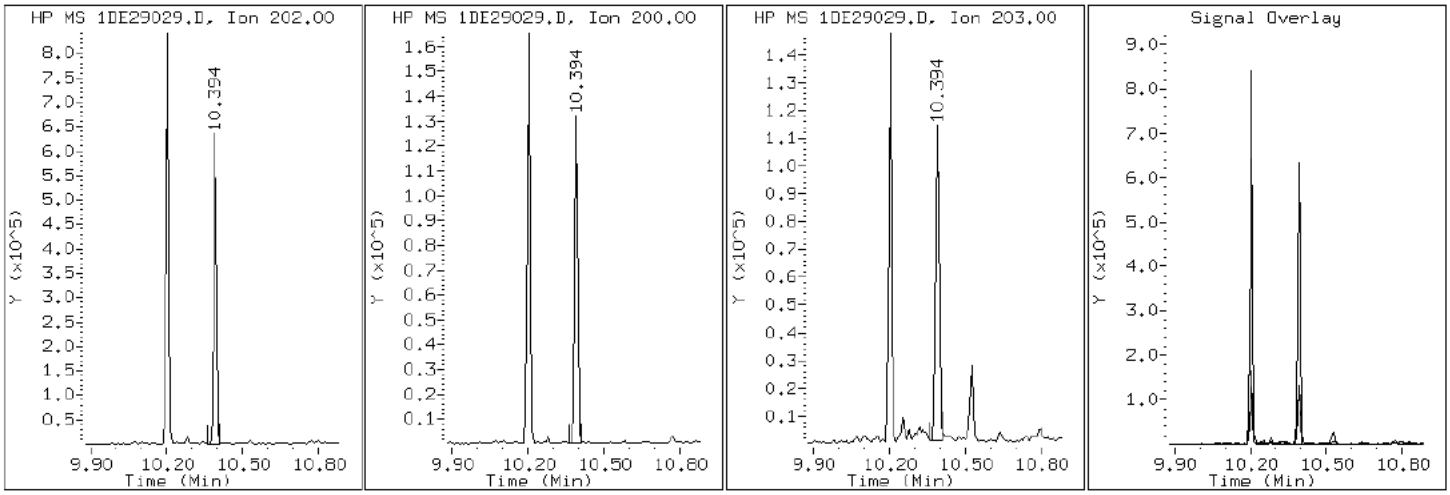
Data File: 1DE29029.D

Date: 30-MAY-2013 00:55

Client ID: CV0912B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90622-a-35-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DE29029.D
Inj. Date and Time: 30-MAY-2013 00:55
Instrument ID: BSMSD.i
Client ID: CV0912B-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

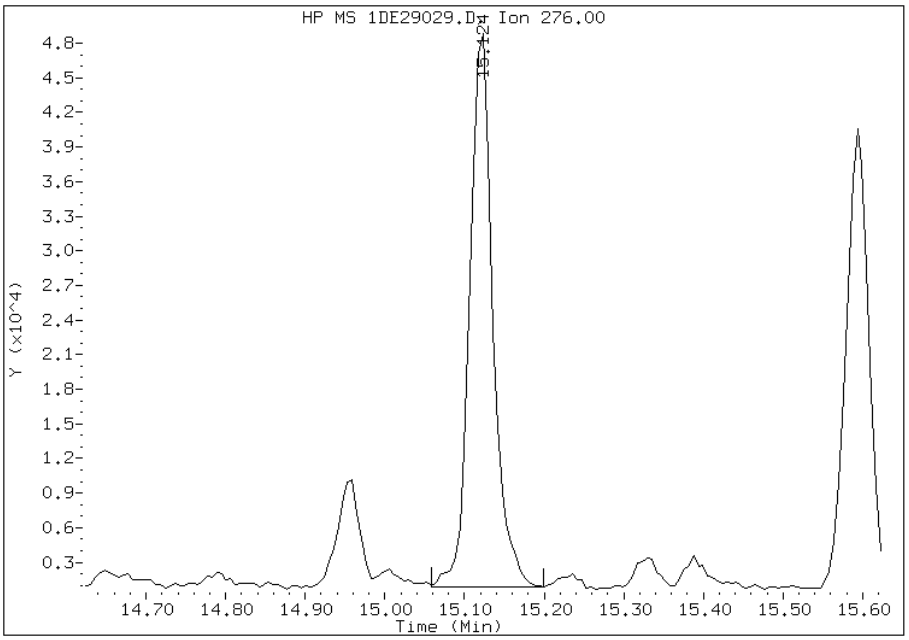
Processing Integration Results

RT: 15.12

Response: 96299

Amount: 1

Conc: 451



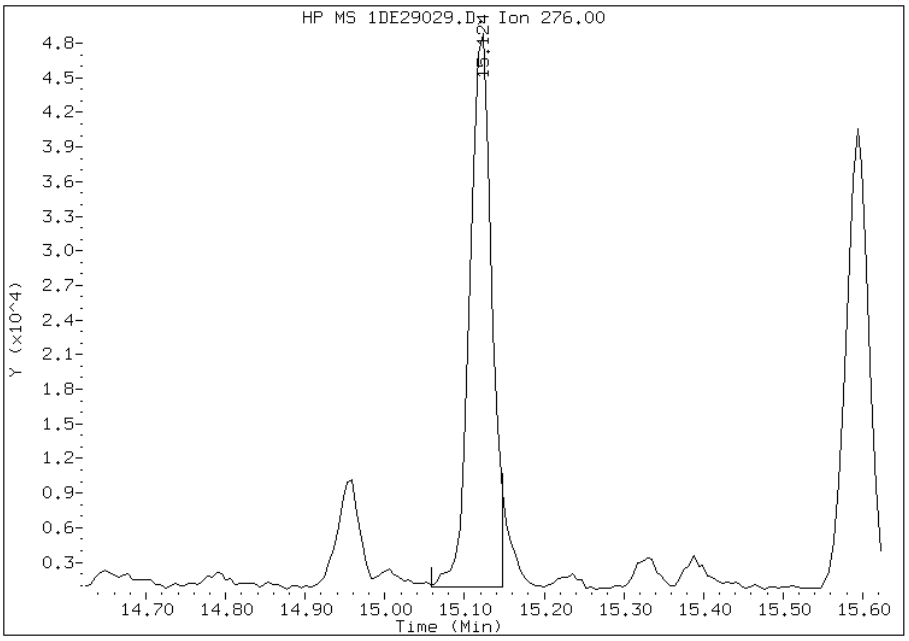
Manual Integration Results

RT: 15.12

Response: 91381

Amount: 1

Conc: 431



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 16:40
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV0912C-CS-SP | Lab Sample ID: 680-90622-36

Matrix: Solid | Lab File ID: 1AE29022.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 15:40

Extract. Method: 3546 | Date Extracted: 05/29/2013 06:31

Sample wt/vol: 15.25(g) | Date Analyzed: 05/29/2013 19:30

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

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

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137876 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	97
208-96-8	Acenaphthylene	70	J	190	24
120-12-7	Anthracene	130		41	20
56-55-3	Benzo[a]anthracene	410		39	19
50-32-8	Benzo[a]pyrene	260		50	25
205-99-2	Benzo[b]fluoranthene	370		59	30
191-24-2	Benzo[g,h,i]perylene	280		97	21
207-08-9	Benzo[k]fluoranthene	160		39	17
218-01-9	Chrysene	330		44	22
53-70-3	Dibenz(a,h)anthracene	97	U	97	20
206-44-0	Fluoranthene	360		97	19
86-73-7	Fluorene	22	J	97	20
193-39-5	Indeno[1,2,3-cd]pyrene	240		97	34
90-12-0	1-Methylnaphthalene	37	J	190	21
91-57-6	2-Methylnaphthalene	68	J	190	34
91-20-3	Naphthalene	72	J	190	21
85-01-8	Phenanthrene	280		39	19
129-00-0	Pyrene	420		97	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	35		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29022.D
Lab Smp Id: 680-90622-A-36-A Client Smp ID: CV0912C-CS-SP
Inj Date : 29-MAY-2013 19:30
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-90622-a-36-a
Misc Info : 680-90622-A-36-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-bFASTPAHi-m.m
Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
Als bottle: 19
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.250	Weight Extracted
M	18.844	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.516	2.512	(1.000)	936266	40.0000	
* 7 Acenaphthene-d10	164	3.537	3.533	(1.000)	637202	40.0000	
* 11 Phenanthrene-d10	188	4.482	4.478	(1.000)	901974	40.0000	
$ 15 o-Terphenyl	230	4.776	4.772	(1.066)	11413	0.87485	282.7499
* 19 Chrysene-d12	240	6.501	6.492	(1.000)	562265	40.0000	
* 24 Perylene-d12	264	7.597	7.571	(1.000)	781752	40.0000	
2 Naphthalene	128	2.522	2.518	(1.002)	4700	0.22172	71.6586(Q)
3 2-Methylnaphthalene	141	2.928	2.924	(1.163)	2138	0.21183	68.4619
4 1-Methylnaphthalene	142	2.981	2.977	(1.185)	1676	0.11369	36.7429
6 Acenaphthylene	152	3.451	3.447	(0.976)	6020	0.21592	69.7851
9 Dibenzofuran	168	3.659	3.655	(1.035)	1306	0.05725	18.5015
10 Fluorene	166	3.868	3.864	(1.094)	1178	0.06810	22.0084
12 Phenanthrene	178	4.498	4.494	(1.004)	17331	0.85315	275.7365
13 Anthracene	178	4.530	4.526	(1.011)	8381	0.39437	127.4607

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Fluoranthene	202	5.358	5.354	(1.195)	28234	1.11318	359.7768
17 Pyrene	202	5.524	5.515	(0.850)	22185	1.30941	423.1972
18 Benzo(a)anthracene	228	6.496	6.481	(0.999)	20805	1.27620	412.4650
20 Chrysene	228	6.512	6.508	(1.002)	15399	1.02593	331.5792
21 Benzo(b)fluoranthene	252	7.308	7.299	(0.962)	22591	1.15205	372.3403(M)
22 Benzo(k)fluoranthene	252	7.319	7.320	(0.963)	12544	0.48229	155.8738(QMH)
23 Benzo(a)pyrene	252	7.532	7.523	(0.992)	15426	0.80892	261.4416
25 Indeno(1,2,3-cd)pyrene	276	8.328	8.314	(1.096)	11476	0.73758	238.3831(M)
27 Benzo(g,h,i)perylene	276	8.537	8.522	(1.124)	14490	0.86383	279.1861

QC Flag Legend

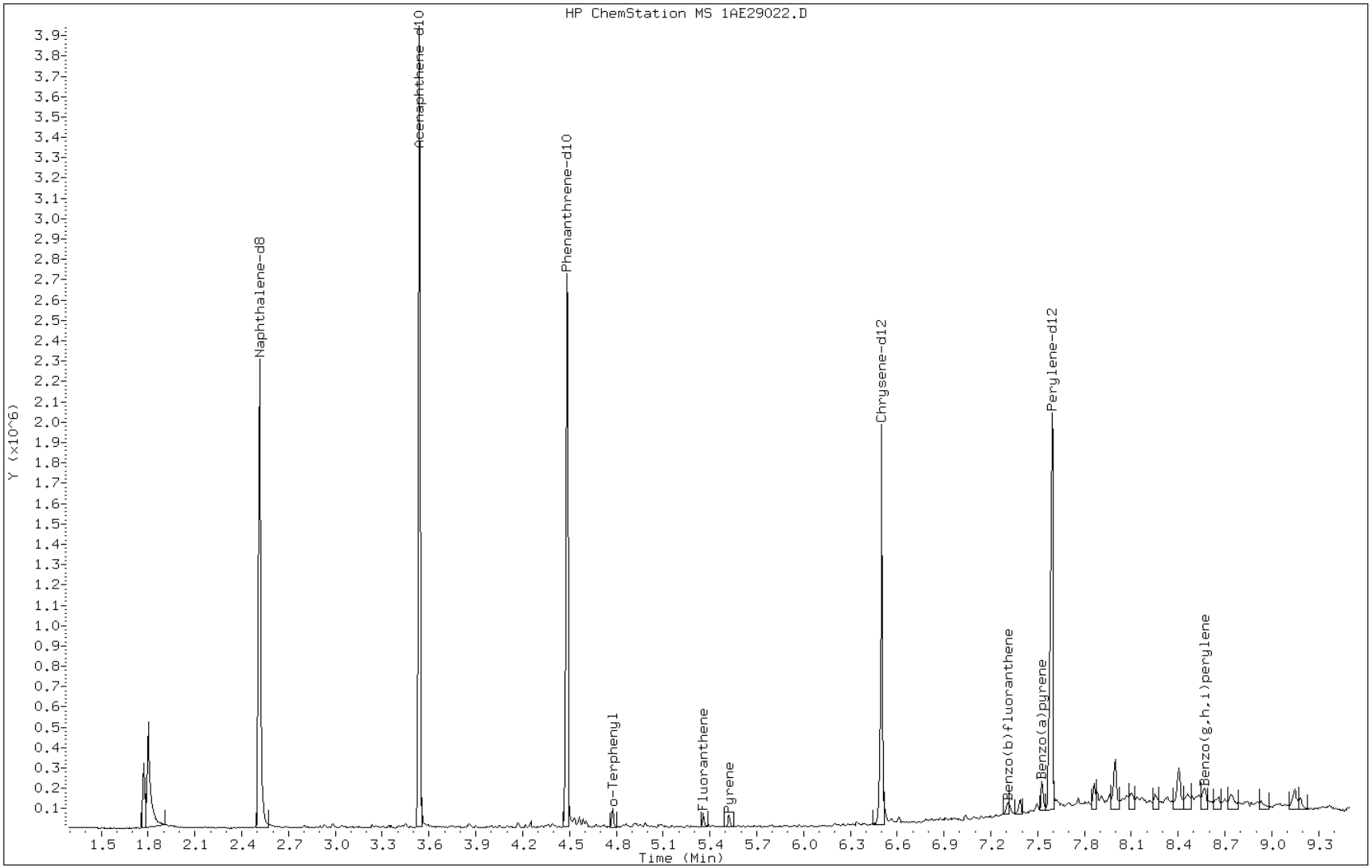
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE29022.D

Date: 29-MAY-2013 19:30

Client ID: CV0912C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-36-a Operator: SCC



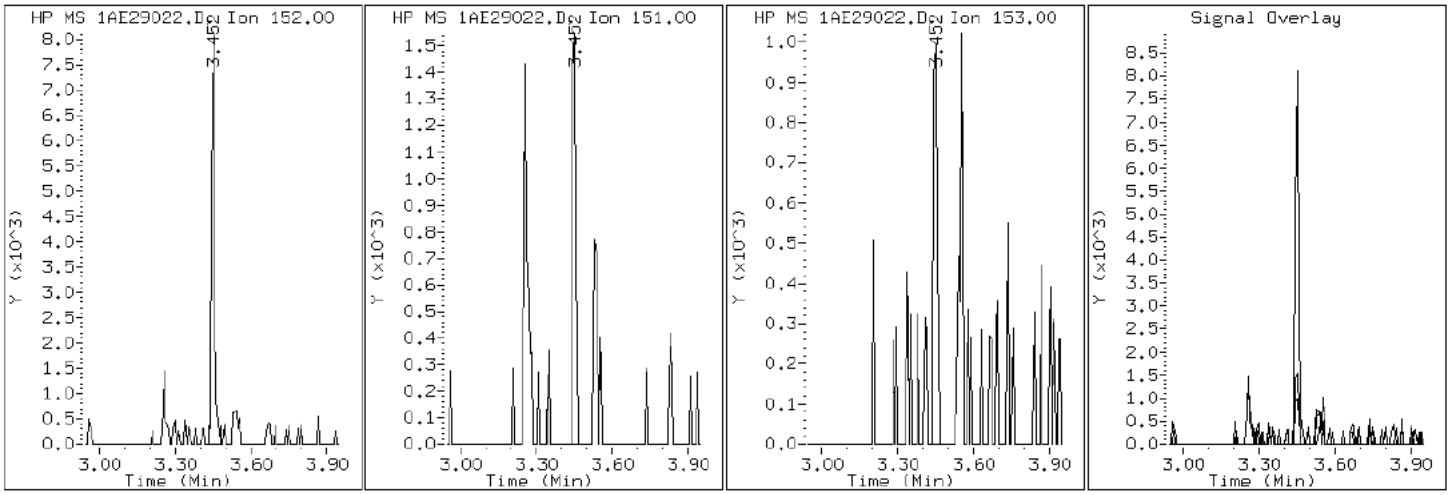
Data File: 1AE29022.D

Date: 29-MAY-2013 19:30

Client ID: CV0912C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-36-a Operator: SCC

6 Acenaphthylene



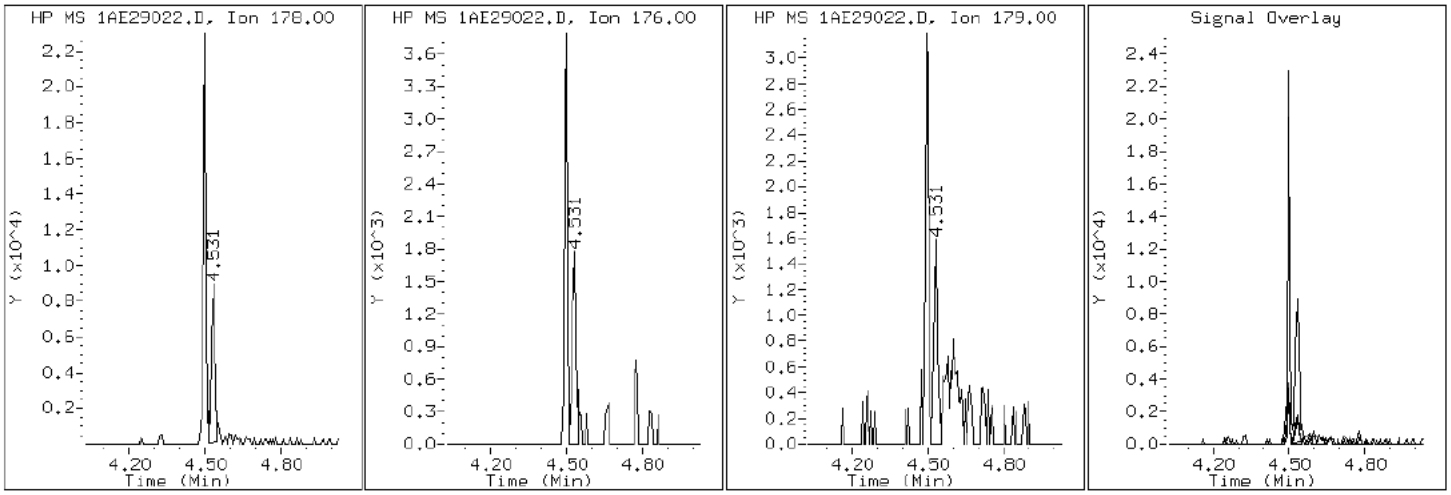
Data File: 1AE29022.D

Date: 29-MAY-2013 19:30

Client ID: CV0912C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-36-a Operator: SCC

13 Anthracene



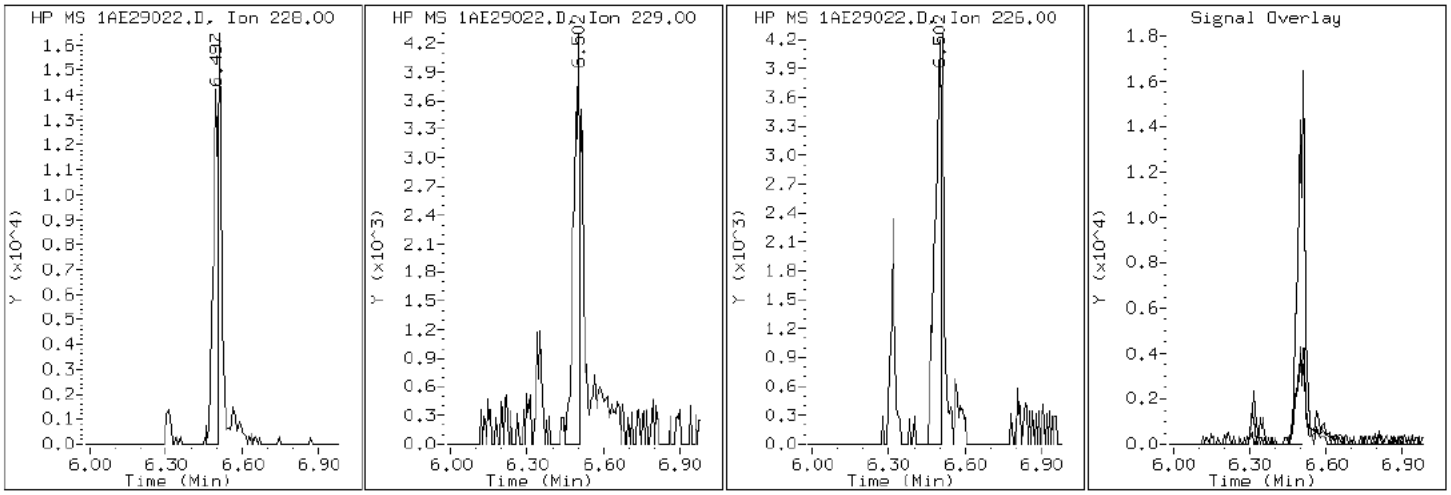
Data File: 1AE29022.D

Date: 29-MAY-2013 19:30

Client ID: CV0912C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-36-a Operator: SCC

18 Benzo(a)anthracene



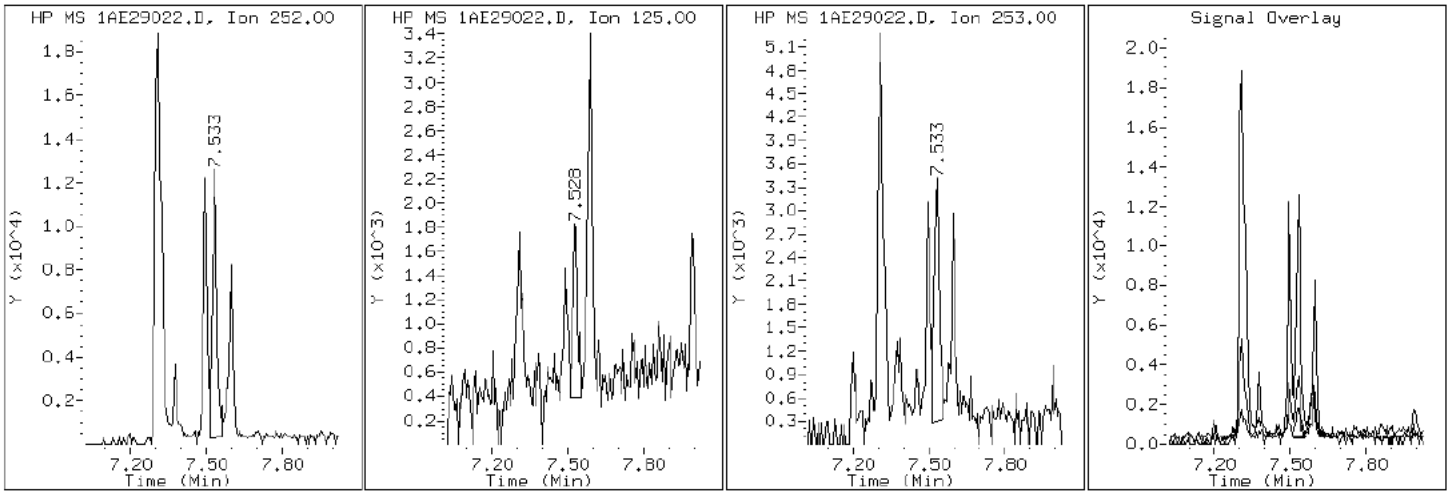
Data File: 1AE29022.D

Date: 29-MAY-2013 19:30

Client ID: CV0912C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-36-a Operator: SCC

23 Benzo(a)pyrene



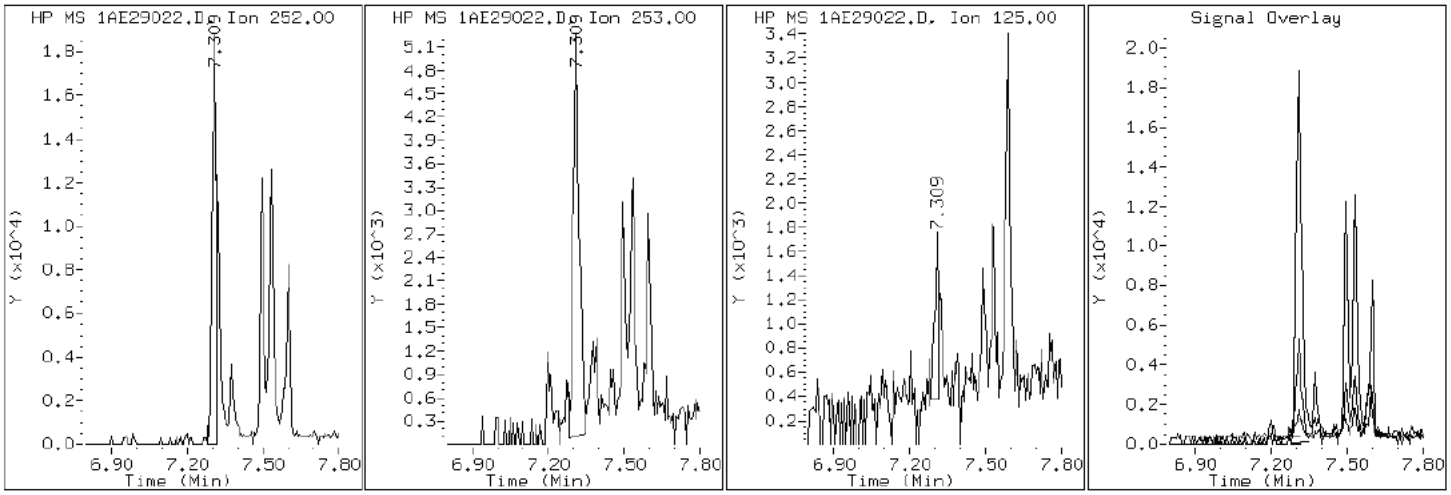
Data File: 1AE29022.D

Date: 29-MAY-2013 19:30

Client ID: CV0912C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-36-a Operator: SCC

21 Benzo(b)fluoranthene



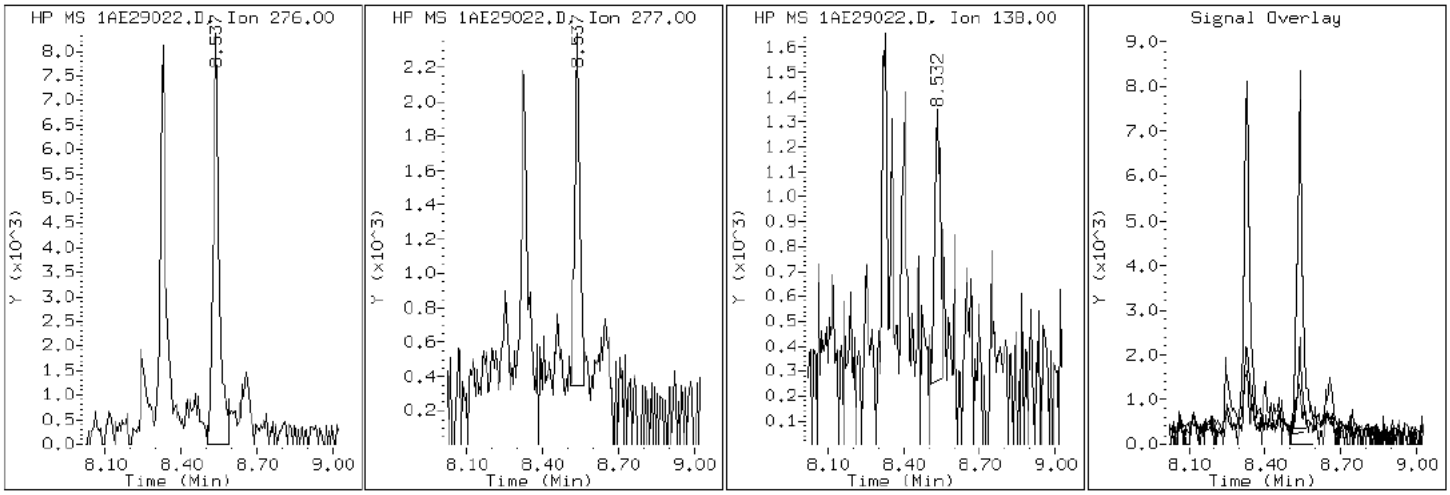
Data File: 1AE29022.D

Date: 29-MAY-2013 19:30

Client ID: CV0912C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-36-a Operator: SCC

27 Benzo(g,h,i)perylene



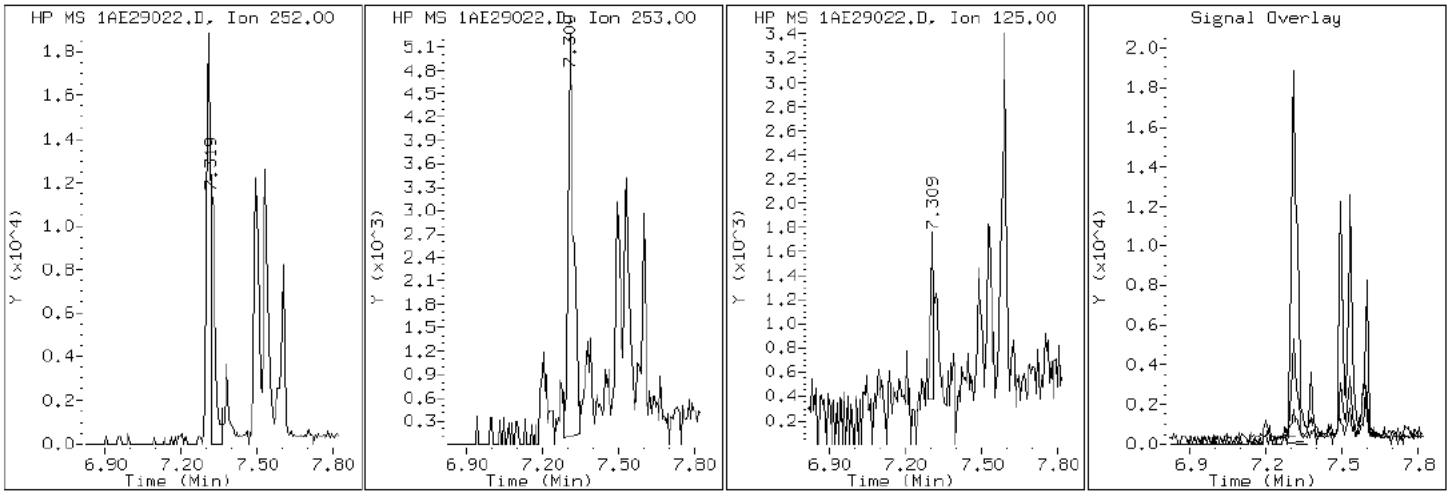
Data File: 1AE29022.D

Date: 29-MAY-2013 19:30

Client ID: CV0912C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-36-a Operator: SCC

22 Benzo(k)fluoranthene



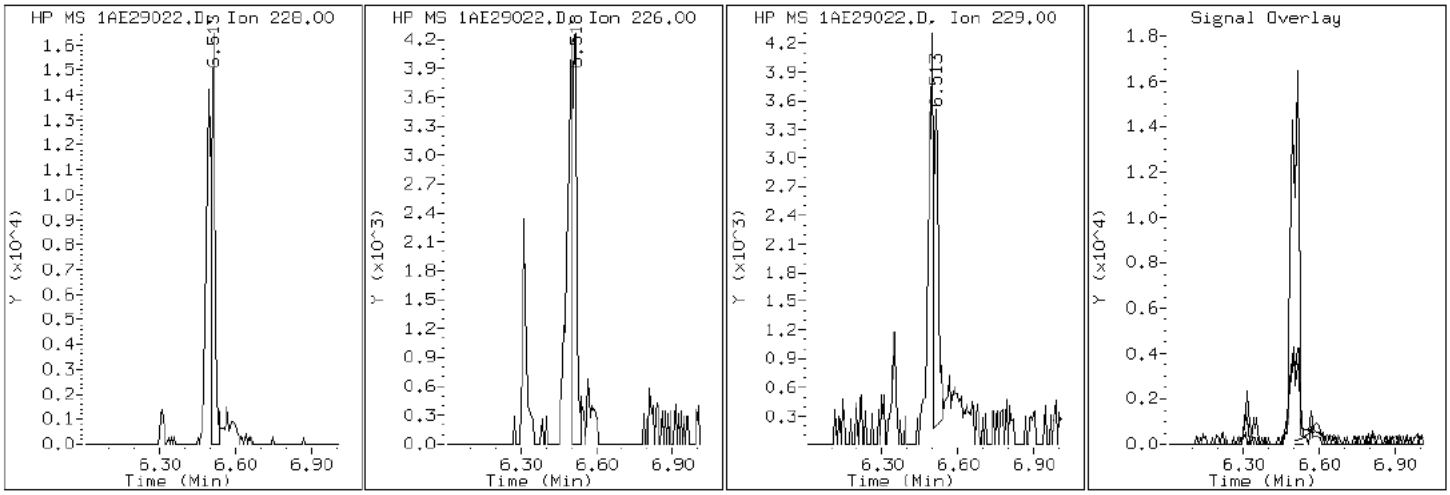
Data File: 1AE29022.D

Date: 29-MAY-2013 19:30

Client ID: CV0912C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-36-a Operator: SCC

20 Chrysene



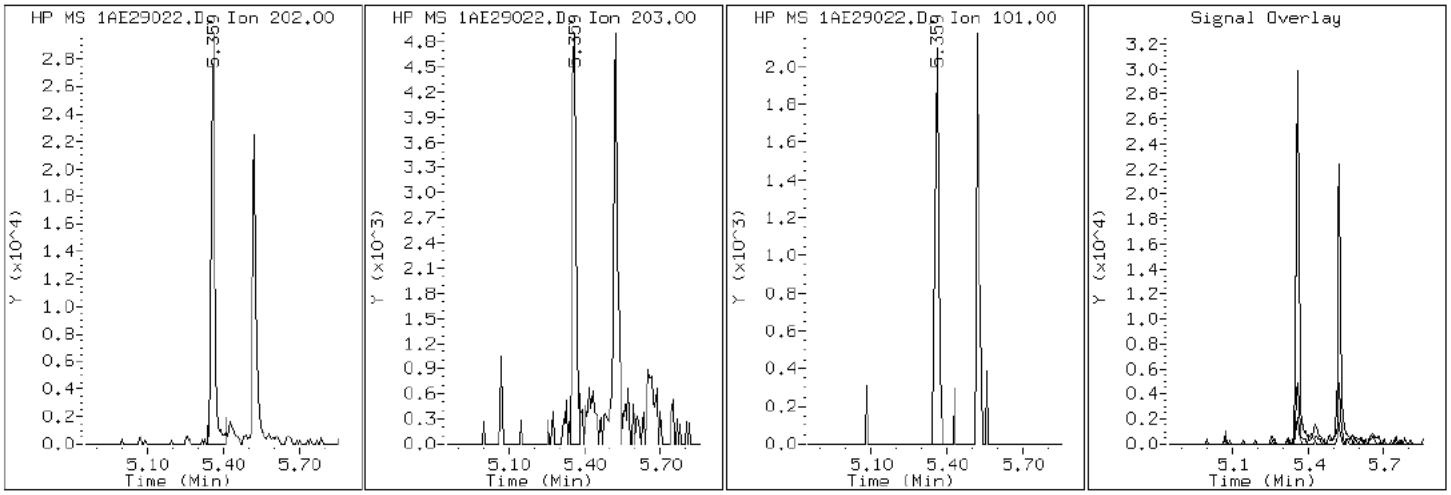
Data File: 1AE29022.D

Date: 29-MAY-2013 19:30

Client ID: CV0912C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-36-a Operator: SCC

16 Fluoranthene



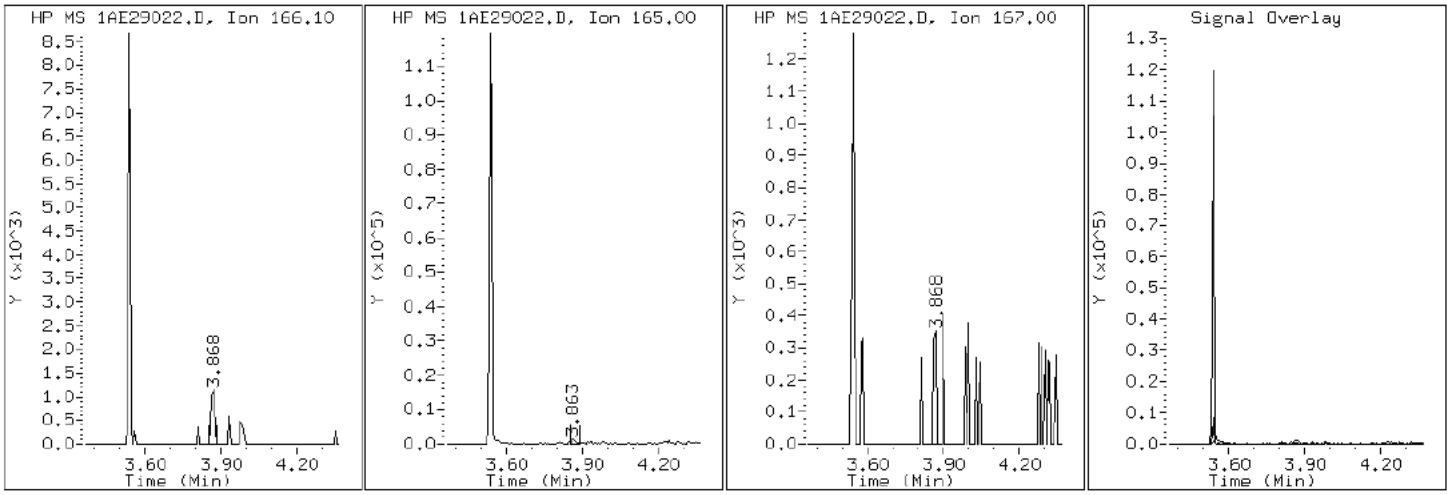
Data File: 1AE29022.D

Date: 29-MAY-2013 19:30

Client ID: CV0912C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-36-a Operator: SCC

10 Fluorene



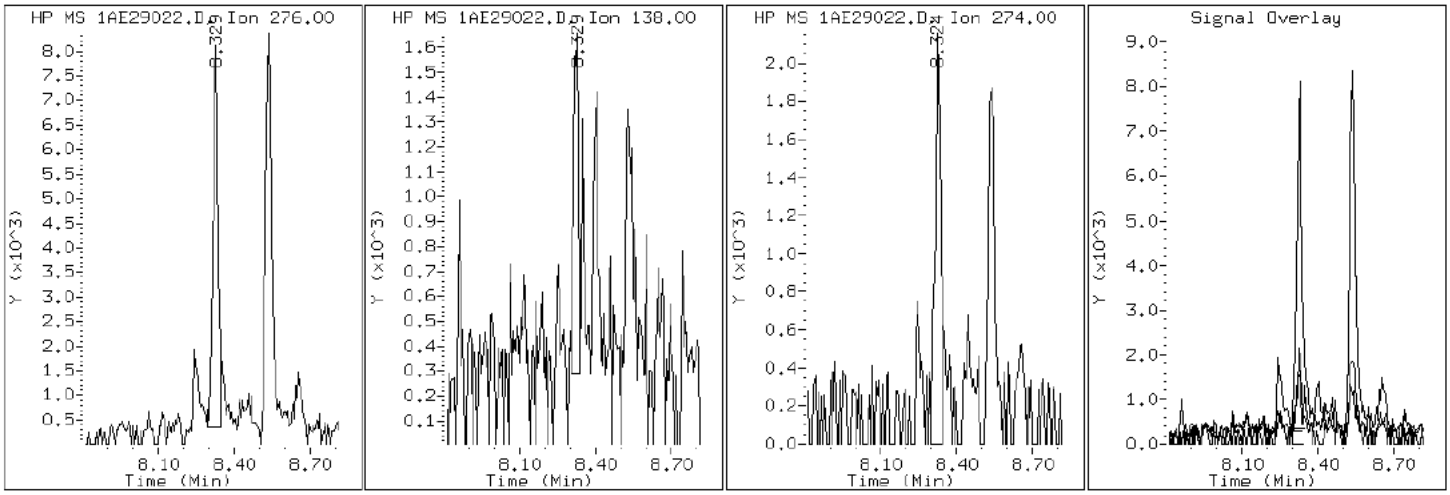
Data File: 1AE29022.D

Date: 29-MAY-2013 19:30

Client ID: CV0912C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-36-a Operator: SCC

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



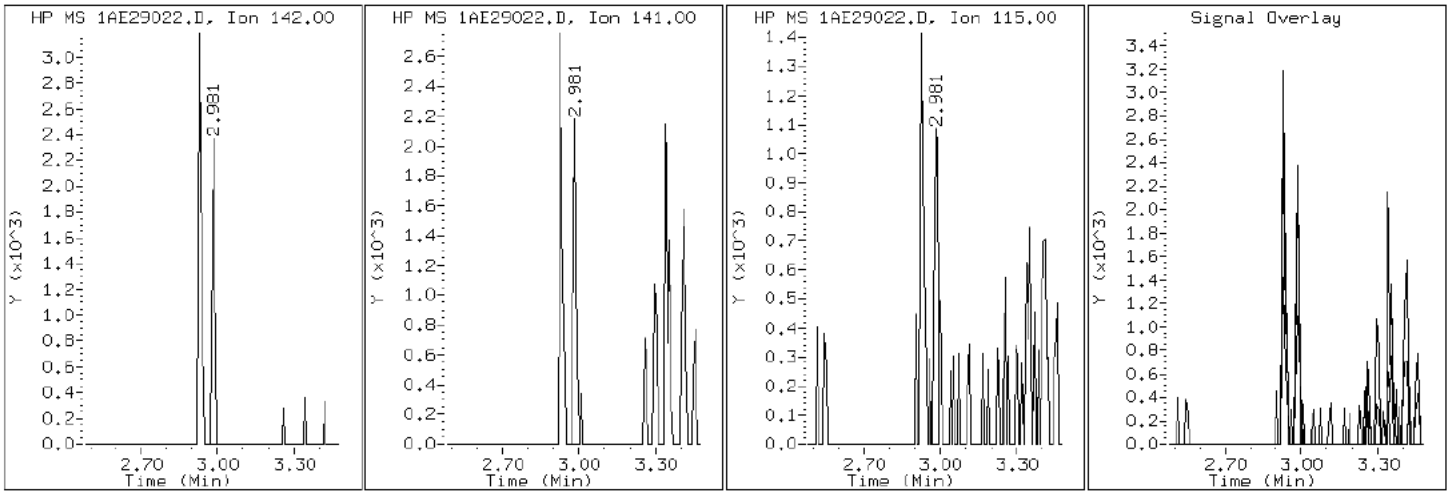
Data File: 1AE29022.D

Date: 29-MAY-2013 19:30

Client ID: CV0912C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-36-a Operator: SCC

4 1-Methylnaphthalene



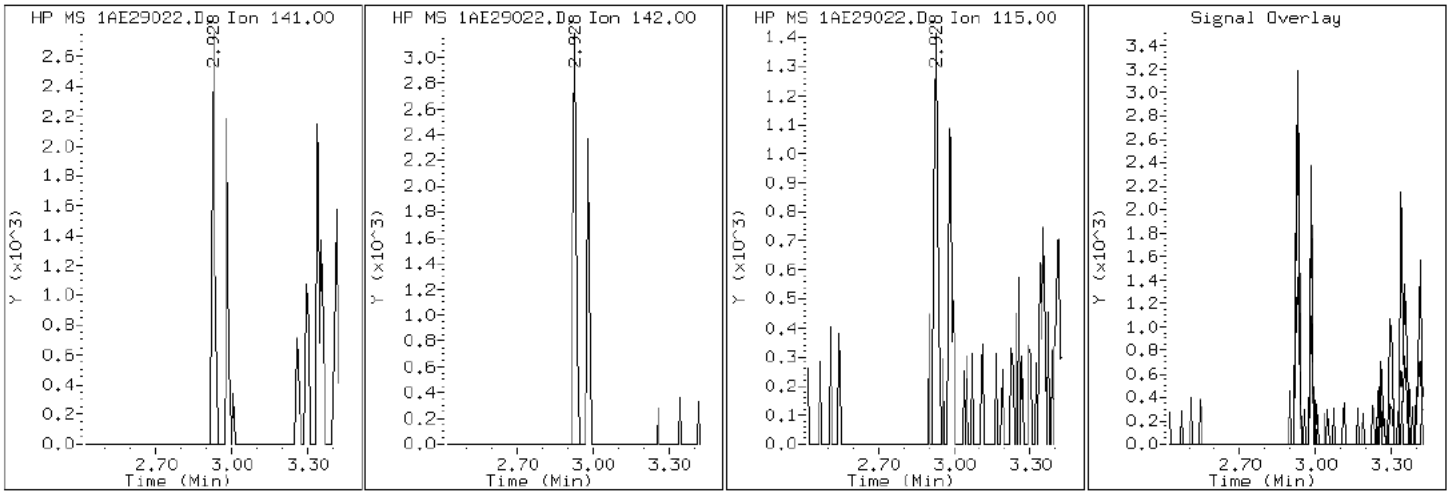
Data File: 1AE29022.D

Date: 29-MAY-2013 19:30

Client ID: CV0912C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-36-a Operator: SCC

3 2-Methylnaphthalene



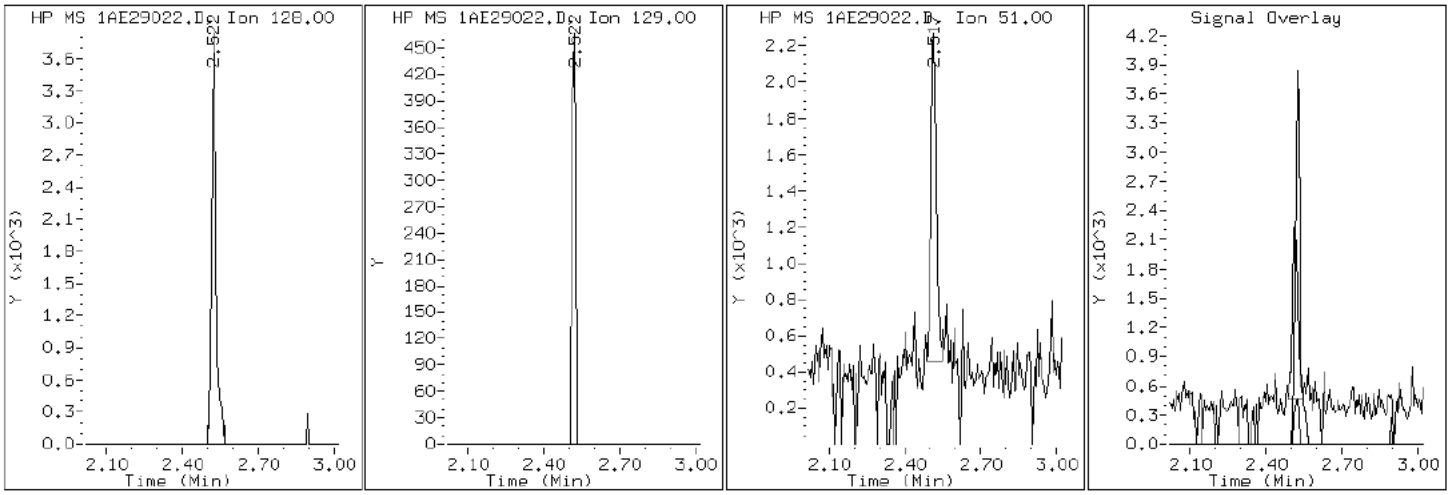
Data File: 1AE29022.D

Date: 29-MAY-2013 19:30

Client ID: CV0912C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-36-a Operator: SCC

2 Naphthalene



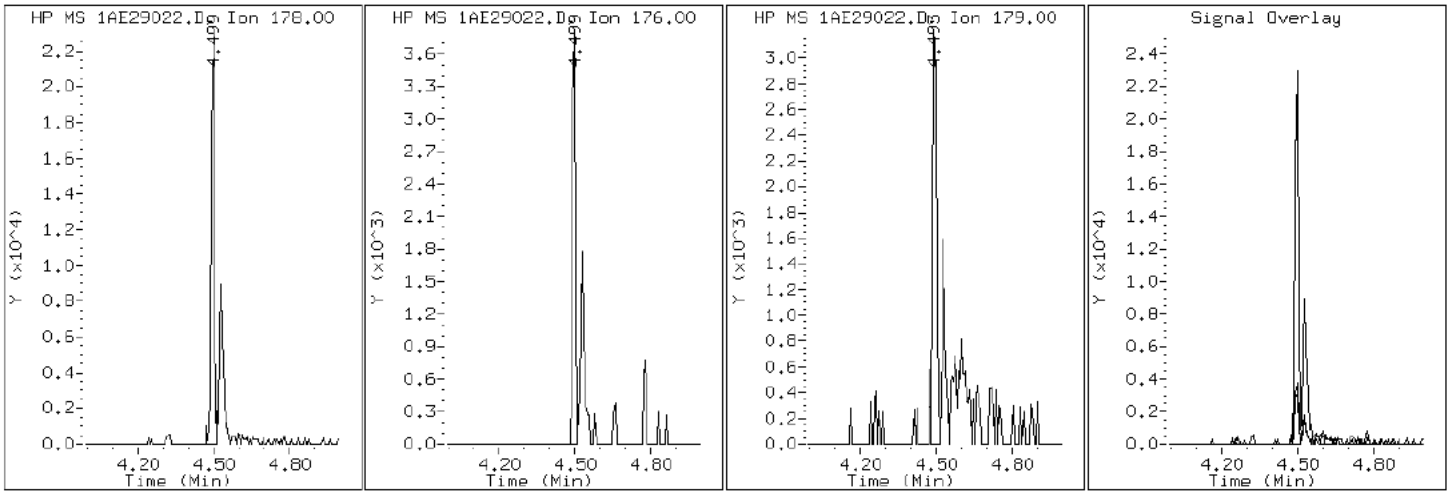
Data File: 1AE29022.D

Date: 29-MAY-2013 19:30

Client ID: CV0912C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-36-a Operator: SCC

12 Phenanthrene



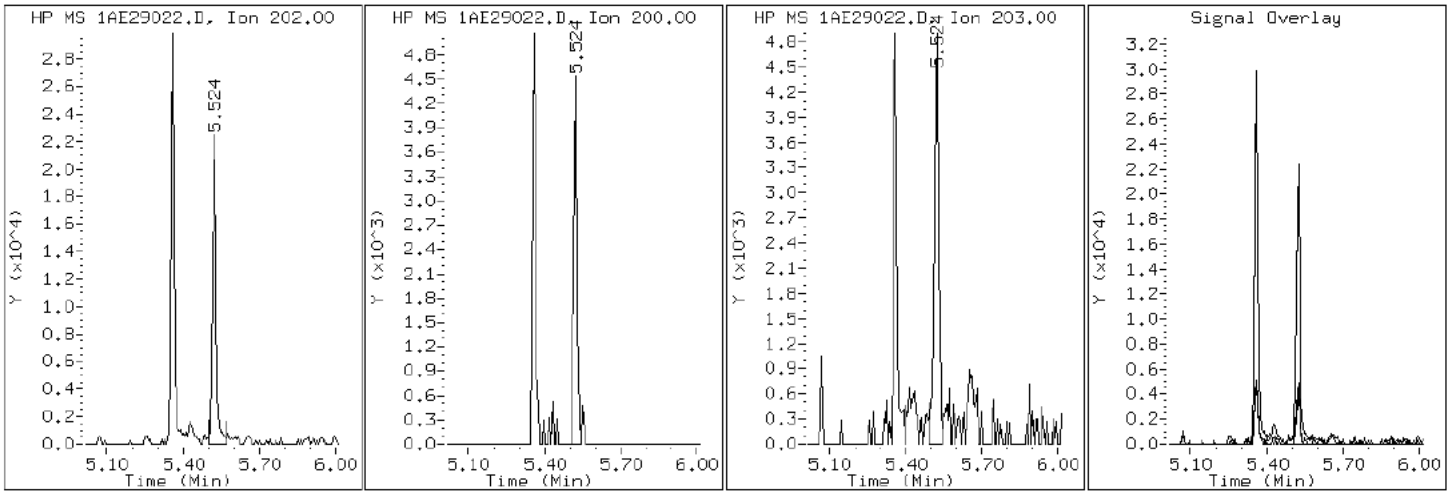
Data File: 1AE29022.D

Date: 29-MAY-2013 19:30

Client ID: CV0912C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-36-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AE29022.D
Inj. Date and Time: 29-MAY-2013 19:30
Instrument ID: BSMA5973.i
Client ID: CV0912C-CS-SP
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/04/2013

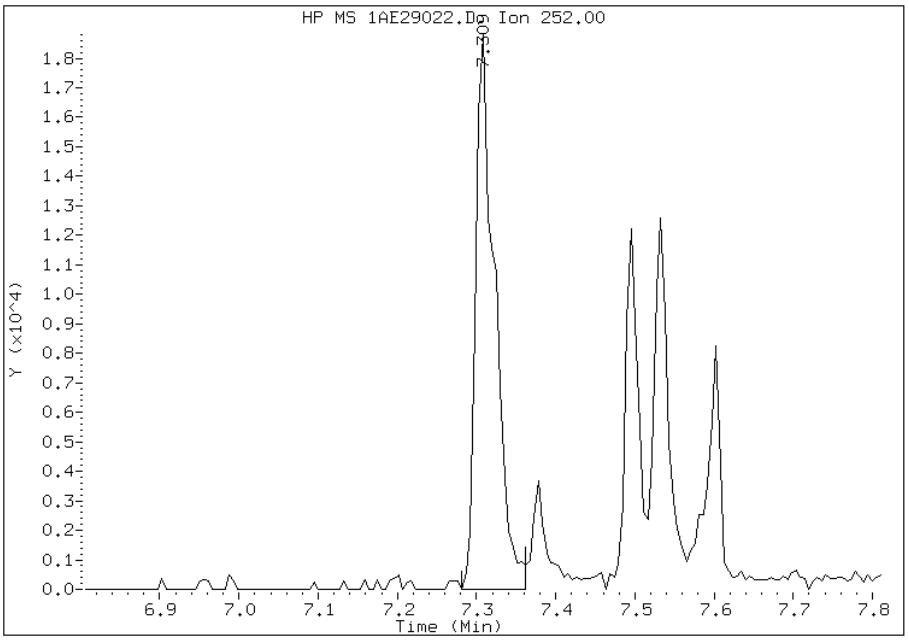
Processing Integration Results

RT: 7.31

Response: 31379

Amount: 2

Conc: 493



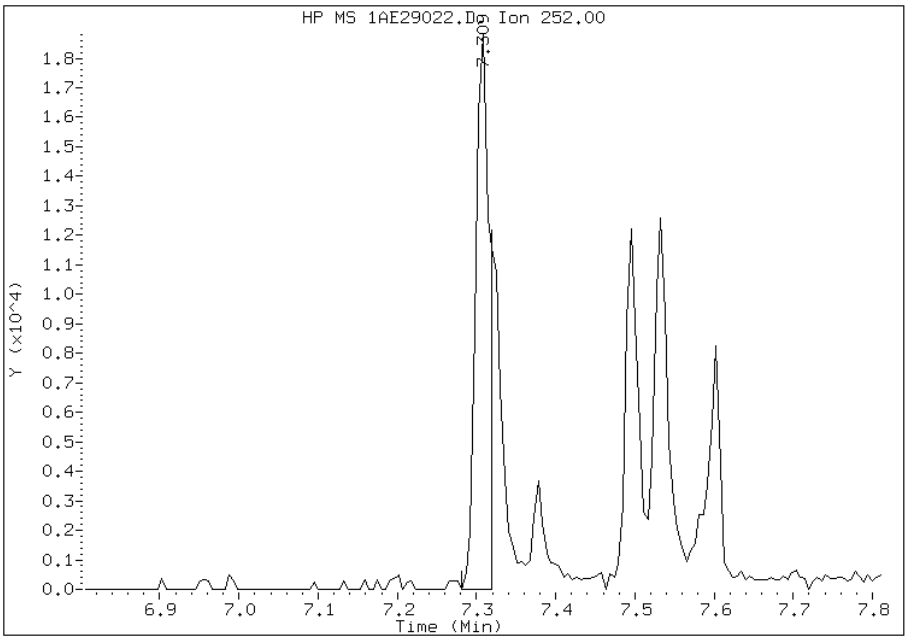
Manual Integration Results

RT: 7.31

Response: 22591

Amount: 1

Conc: 372



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:43
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29022.D
Inj. Date and Time: 29-MAY-2013 19:30
Instrument ID: BSMA5973.i
Client ID: CV0912C-CS-SP
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/04/2013

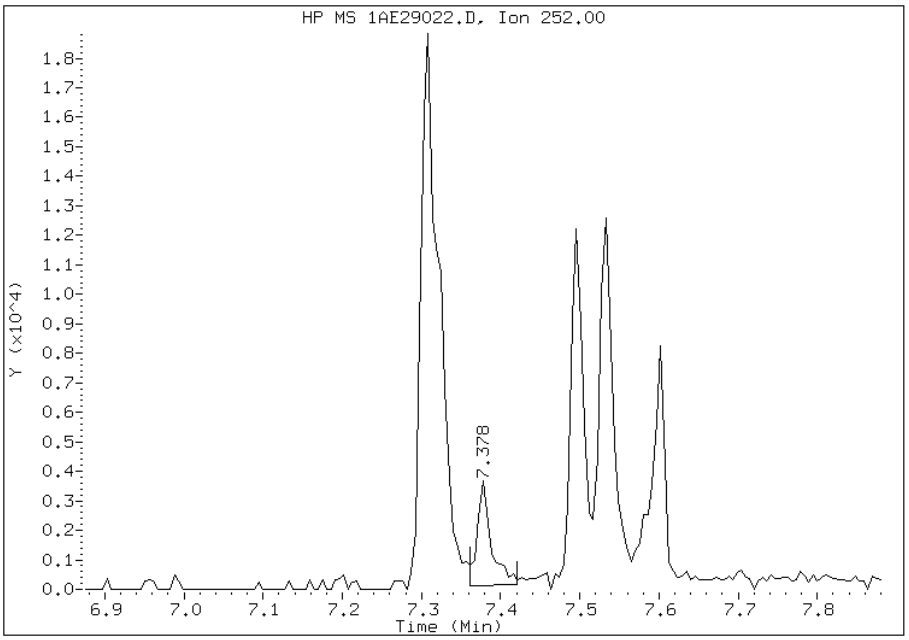
Processing Integration Results

RT: 7.38

Response: 4304

Amount: 0

Conc: 53



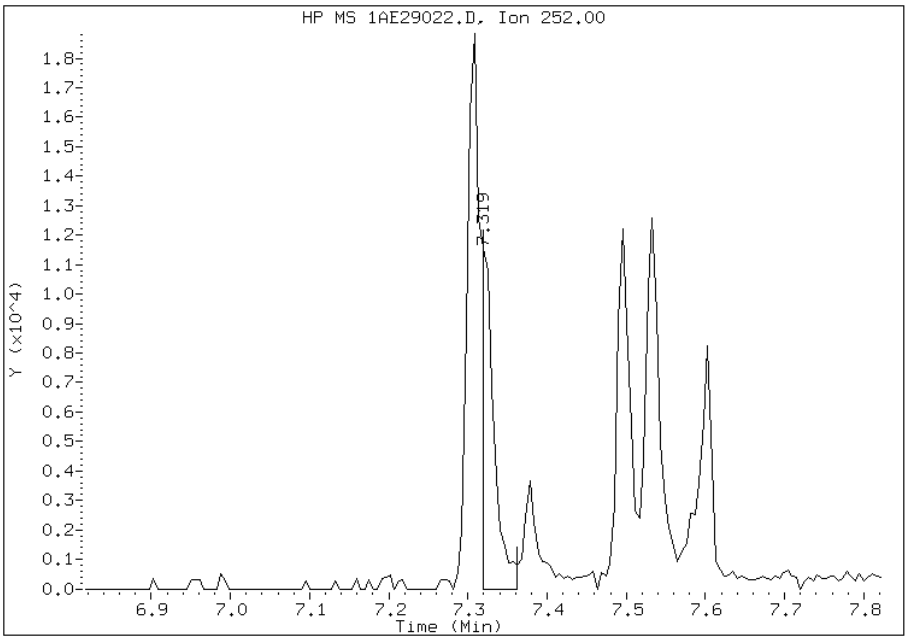
Manual Integration Results

RT: 7.32

Response: 12544

Amount: 0

Conc: 156



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29022.D
Inj. Date and Time: 29-MAY-2013 19:30
Instrument ID: BSMA5973.i
Client ID: CV0912C-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/04/2013

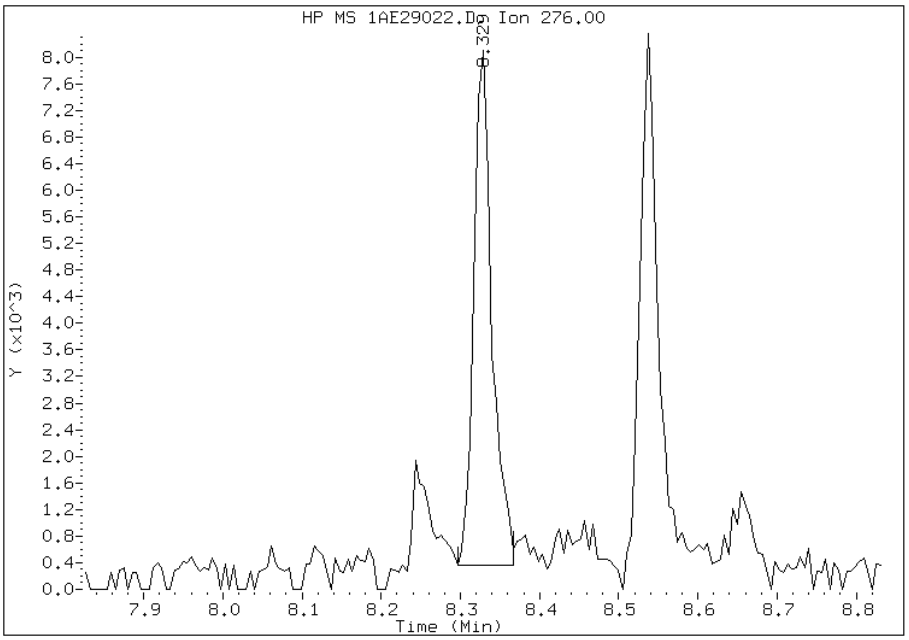
Processing Integration Results

RT: 8.33

Response: 12178

Amount: 1

Conc: 250



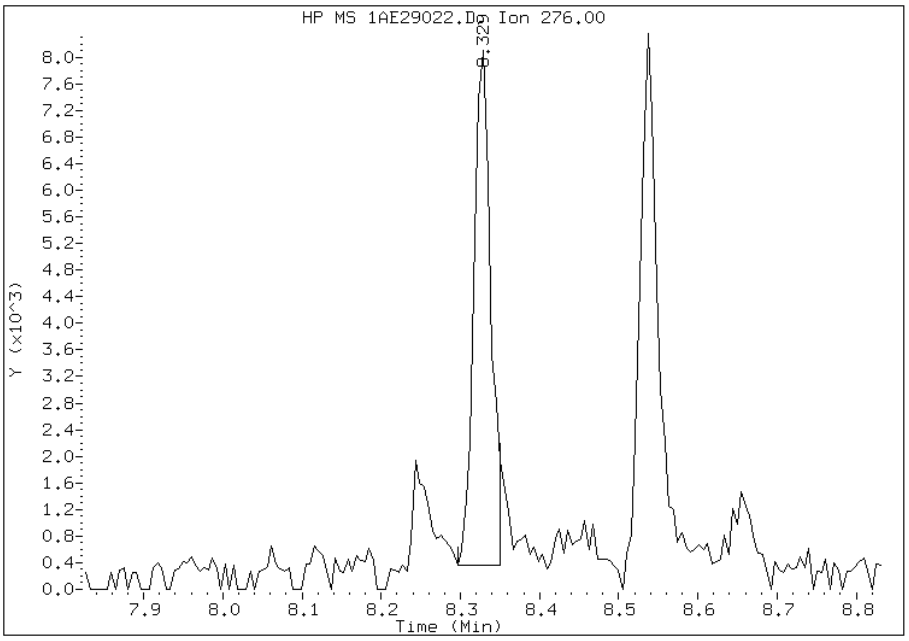
Manual Integration Results

RT: 8.33

Response: 11476

Amount: 1

Conc: 238



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:44
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV0912D-CS-SP | Lab Sample ID: 680-90622-37

Matrix: Solid | Lab File ID: 1AE29023.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 15:50

Extract. Method: 3546 | Date Extracted: 05/29/2013 06:31

Sample wt/vol: 15.24(g) | Date Analyzed: 05/29/2013 19:45

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

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

% Moisture: 26.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137876 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	57	J	210	27
120-12-7	Anthracene	100		45	23
56-55-3	Benzo[a]anthracene	520		43	21
50-32-8	Benzo[a]pyrene	320		56	28
205-99-2	Benzo[b]fluoranthene	470		66	33
191-24-2	Benzo[g,h,i]perylene	300		110	24
207-08-9	Benzo[k]fluoranthene	190		43	19
218-01-9	Chrysene	460		48	24
53-70-3	Dibenz(a,h)anthracene	130		110	22
206-44-0	Fluoranthene	450		110	21
86-73-7	Fluorene	110	U	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	240		110	38
90-12-0	1-Methylnaphthalene	60	J	210	24
91-57-6	2-Methylnaphthalene	94	J	210	38
91-20-3	Naphthalene	81	J	210	24
85-01-8	Phenanthrene	380		43	21
129-00-0	Pyrene	590		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	39		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29023.D
Lab Smp Id: 680-90622-A-37-A Client Smp ID: CV0912D-CS-SP
Inj Date : 29-MAY-2013 19:45
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-90622-a-37-a
Misc Info : 680-90622-A-37-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-bFASTPAHi-m.m
Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
Als bottle: 20
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.240	Weight Extracted
M	26.707	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.516	2.512	(1.000)	1040375	40.0000	
*	7 Acenaphthene-d10	164	3.542	3.533	(1.000)	727011	40.0000	
*	11 Phenanthrene-d10	188	4.487	4.478	(1.000)	1019736	40.0000	
$	15 o-Terphenyl	230	4.776	4.772	(1.064)	14479	0.98170	351.5534
*	19 Chrysene-d12	240	6.507	6.492	(1.000)	631926	40.0000	
*	24 Perylene-d12	264	7.596	7.571	(1.000)	686611	40.0000	(H)
	2 Naphthalene	128	2.527	2.518	(1.004)	5330	0.22628	81.0309(Q)
	3 2-Methylnaphthalene	141	2.927	2.924	(1.163)	2936	0.26178	93.7455
	4 1-Methylnaphthalene	142	2.981	2.977	(1.185)	2732	0.16677	59.7218
	5 1,1'-Biphenyl	154	3.205	3.207	(1.274)	666	0.03640	13.0334(Q)
	6 Acenaphthylene	152	3.451	3.447	(0.974)	5025	0.15797	56.5695
	9 Dibenzofuran	168	3.659	3.655	(1.033)	1831	0.07034	25.1902
	10 Fluorene	166	3.868	3.864	(1.092)	1142	0.05786	20.7200(Q)
	12 Phenanthrene	178	4.498	4.494	(1.002)	24480	1.06591	381.7087

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Anthracene	178	4.530	4.526	(1.010)	6916	0.28786	103.0826
16 Fluoranthene	202	5.358	5.354	(1.194)	36004	1.25560	449.6364
17 Pyrene	202	5.524	5.515	(0.849)	31142	1.63545	585.6638
18 Benzo(a)anthracene	228	6.501	6.481	(0.999)	26262	1.43908	515.3430
20 Chrysene	228	6.512	6.508	(1.001)	21895	1.29792	464.7916
21 Benzo(b)fluoranthene	252	7.308	7.299	(0.962)	23092	1.30920	468.8318(MH)
22 Benzo(k)fluoranthene	252	7.319	7.320	(0.963)	12231	0.53541	191.7348(QM)
23 Benzo(a)pyrene	252	7.538	7.523	(0.992)	14884	0.88865	318.2314(H)
25 Indeno(1,2,3-cd)pyrene	276	8.334	8.314	(1.097)	9058	0.67724	242.5235(MH)
26 Dibenzo(a,h)anthracene	278	8.350	8.341	(1.099)	3897	0.36928	132.2400(H)
27 Benzo(g,h,i)perylene	276	8.542	8.522	(1.124)	12429	0.84363	302.1089(H)

QC Flag Legend

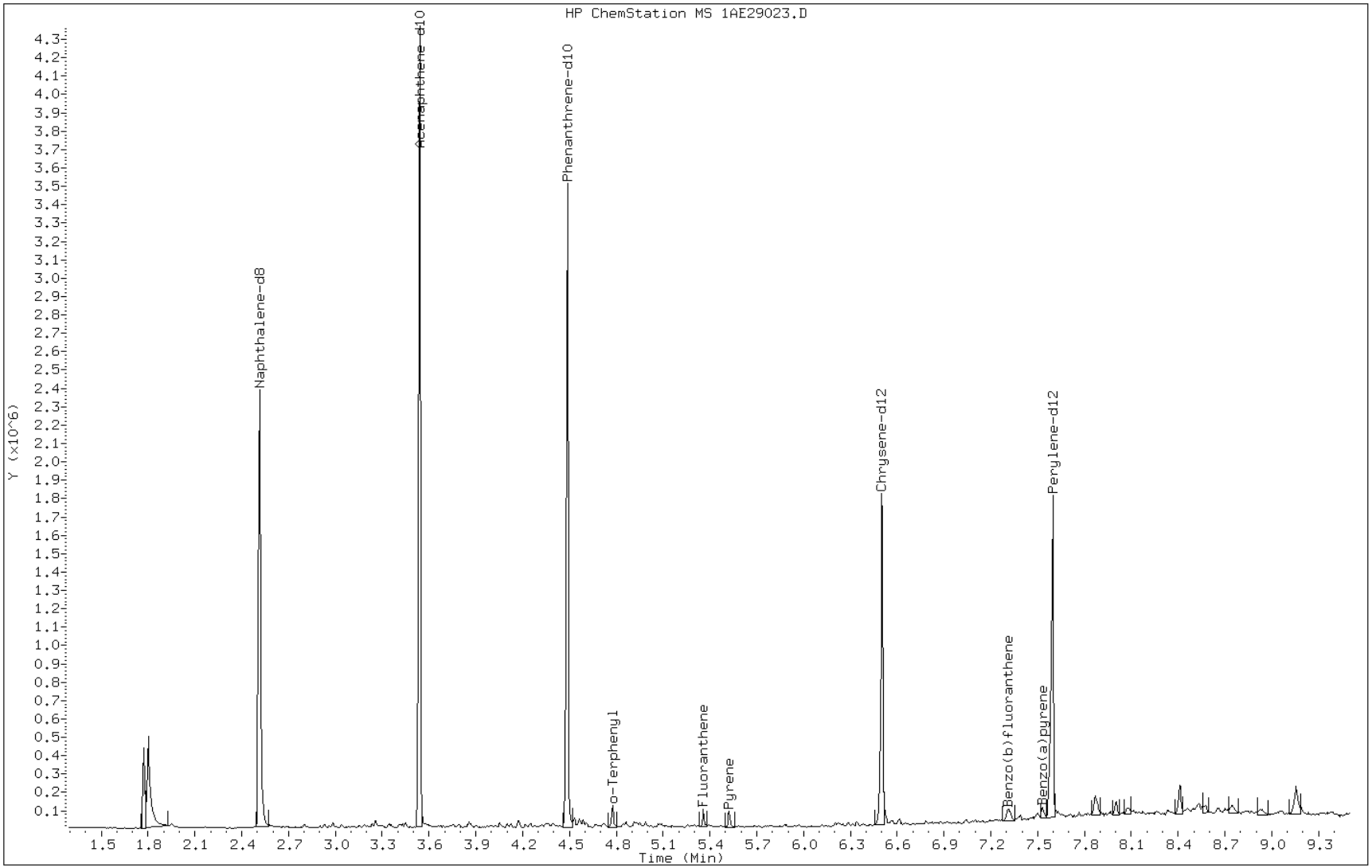
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE29023.D

Date: 29-MAY-2013 19:45

Client ID: CV0912D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-37-a Operator: SCC



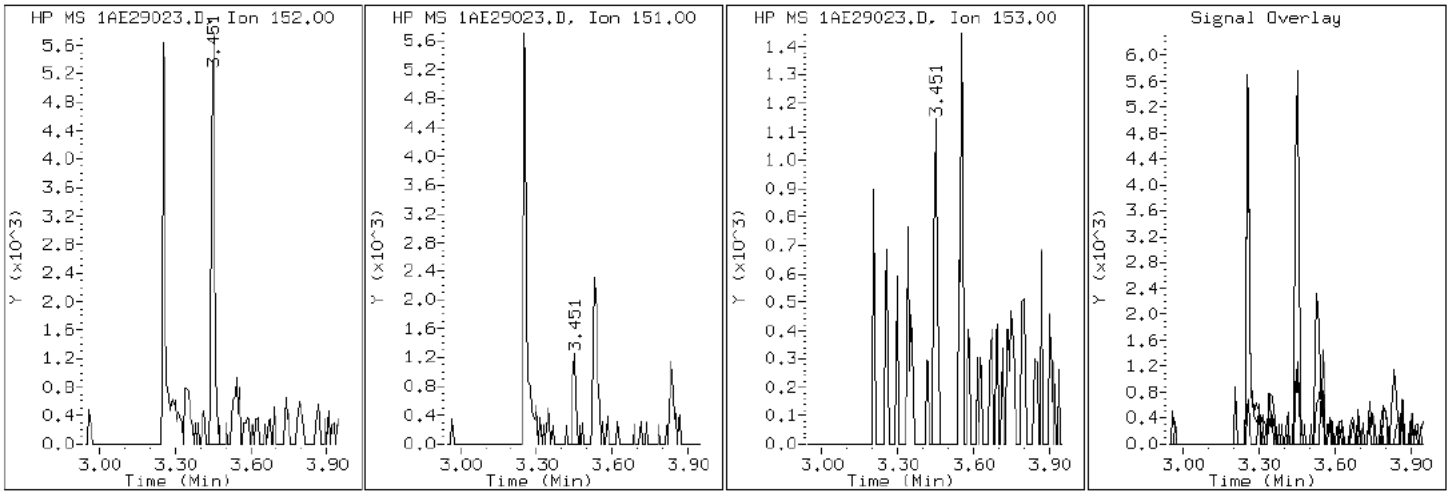
Data File: 1AE29023.D

Date: 29-MAY-2013 19:45

Client ID: CV0912D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-37-a Operator: SCC

6 Acenaphthylene



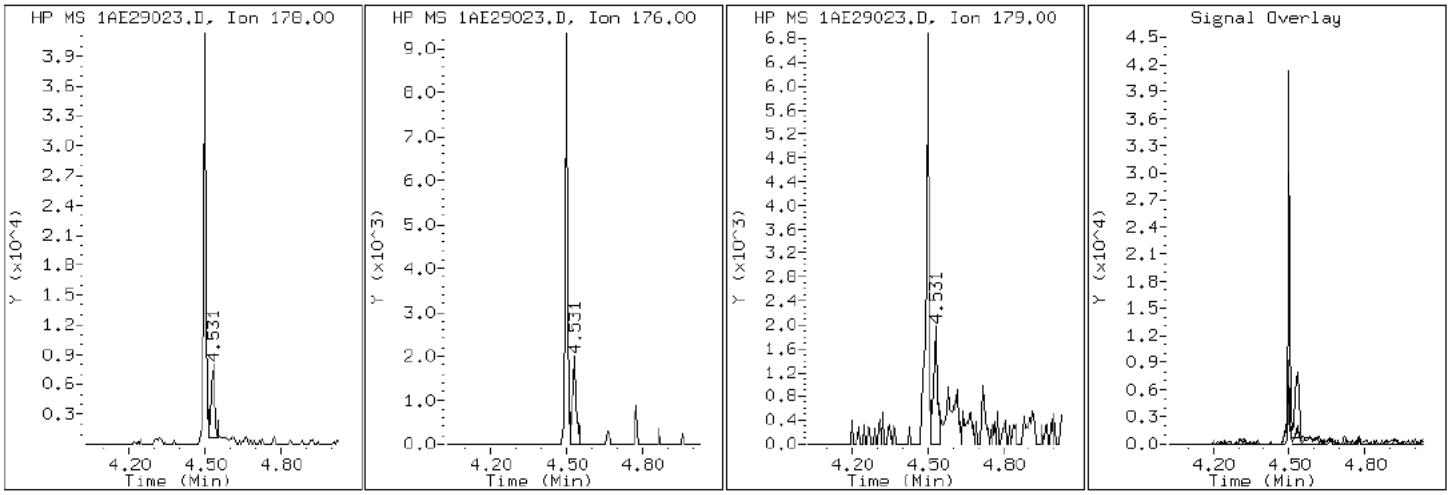
Data File: 1AE29023.D

Date: 29-MAY-2013 19:45

Client ID: CV0912D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-37-a Operator: SCC

13 Anthracene



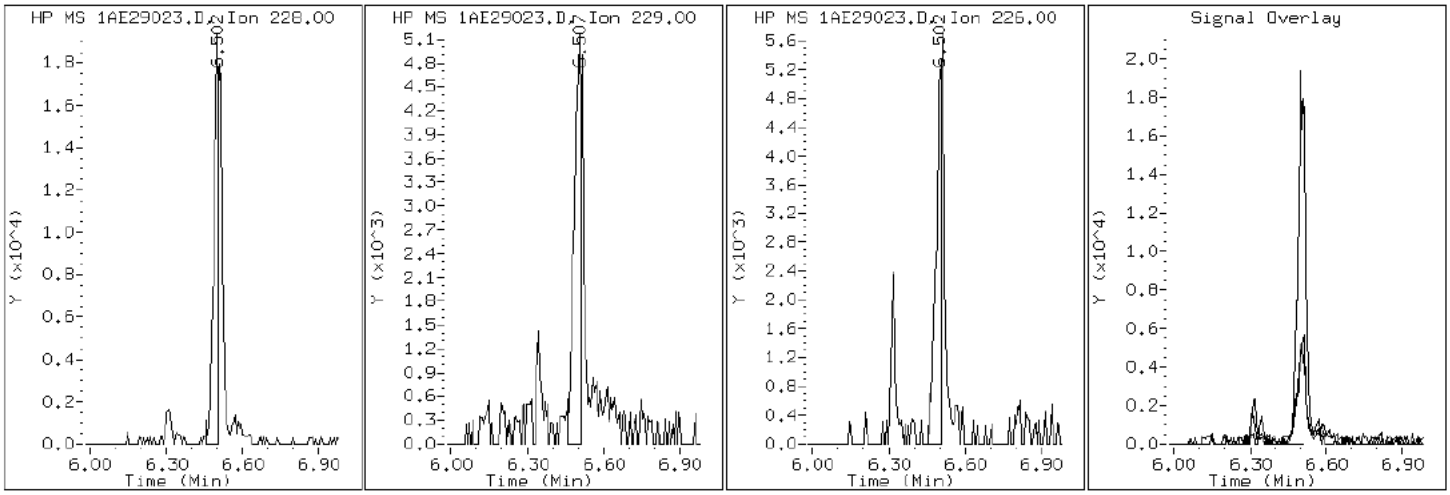
Data File: 1AE29023.D

Date: 29-MAY-2013 19:45

Client ID: CV0912D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-37-a Operator: SCC

18 Benzo(a)anthracene



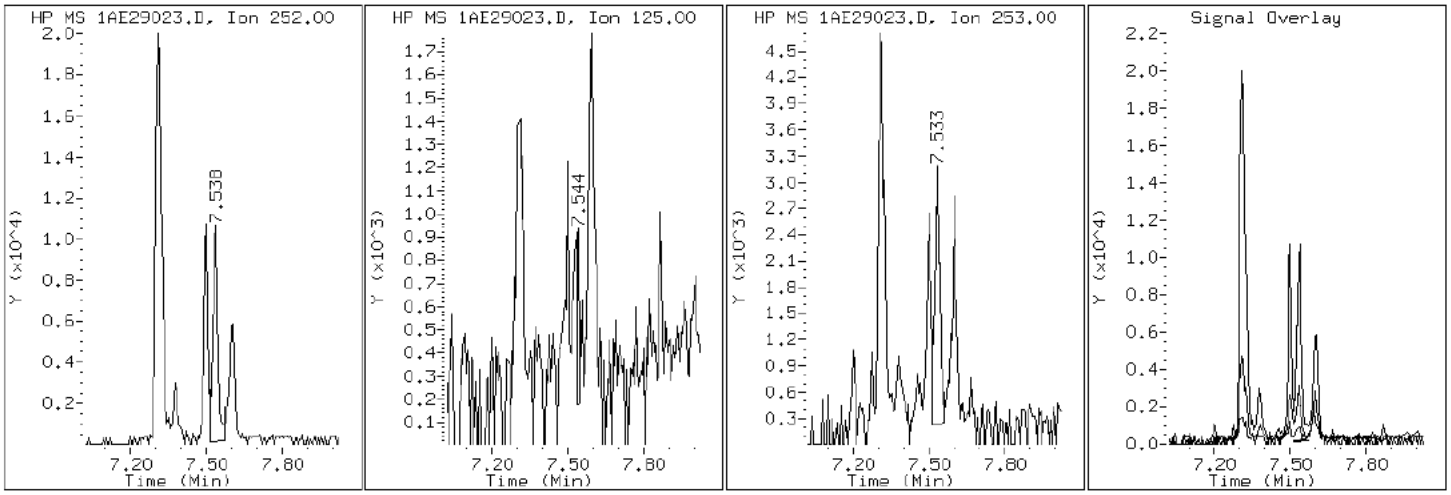
Data File: 1AE29023.D

Date: 29-MAY-2013 19:45

Client ID: CV0912D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-37-a Operator: SCC

23 Benzo(a)pyrene



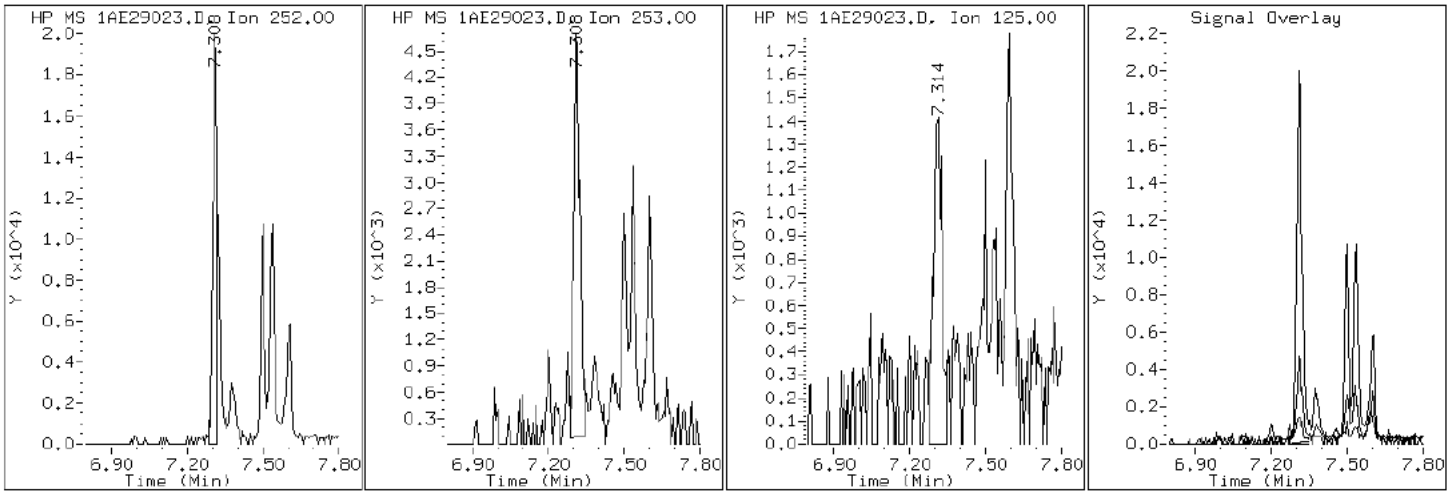
Data File: 1AE29023.D

Date: 29-MAY-2013 19:45

Client ID: CV0912D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-37-a Operator: SCC

21 Benzo(b)fluoranthene



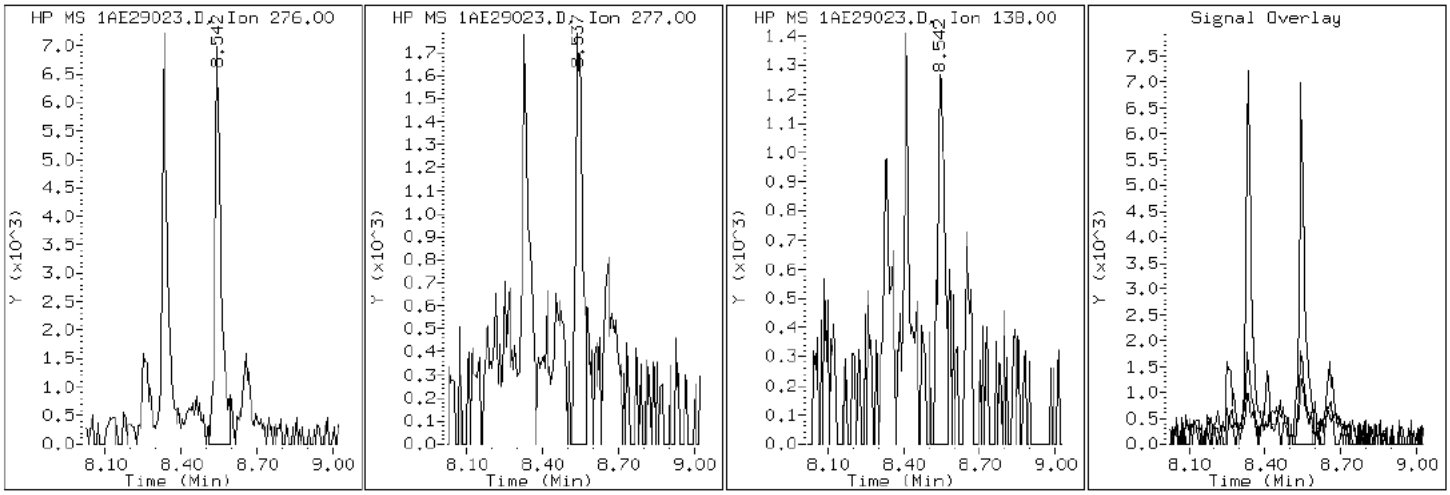
Data File: 1AE29023.D

Date: 29-MAY-2013 19:45

Client ID: CV0912D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-37-a Operator: SCC

27 Benzo(g,h,i)perylene



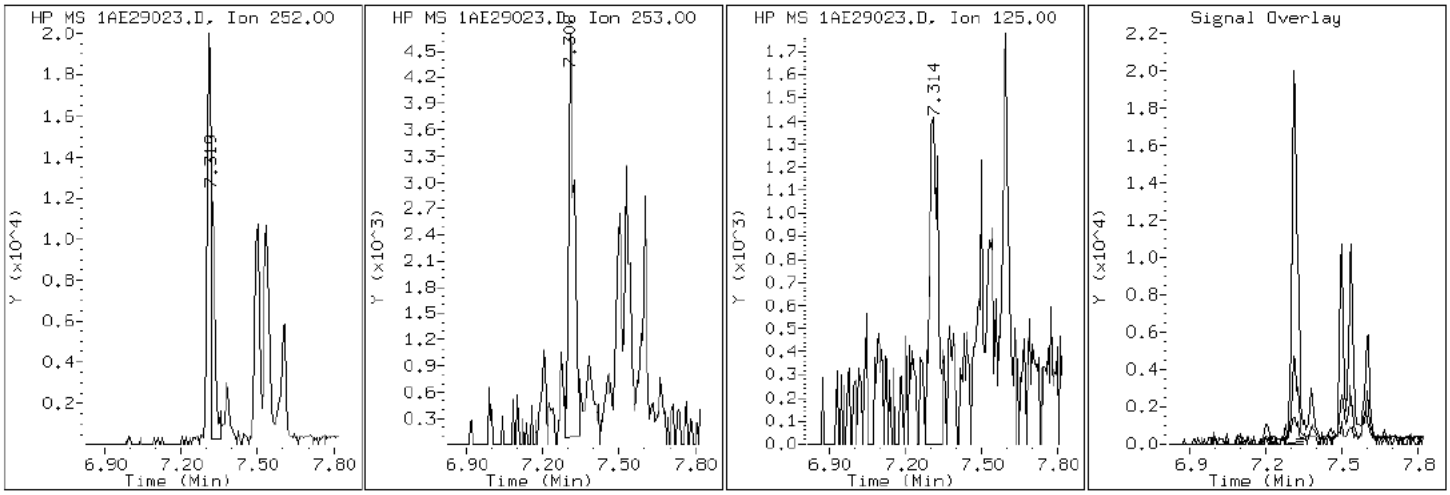
Data File: 1AE29023.D

Date: 29-MAY-2013 19:45

Client ID: CV0912D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-37-a Operator: SCC

22 Benzo(k)fluoranthene



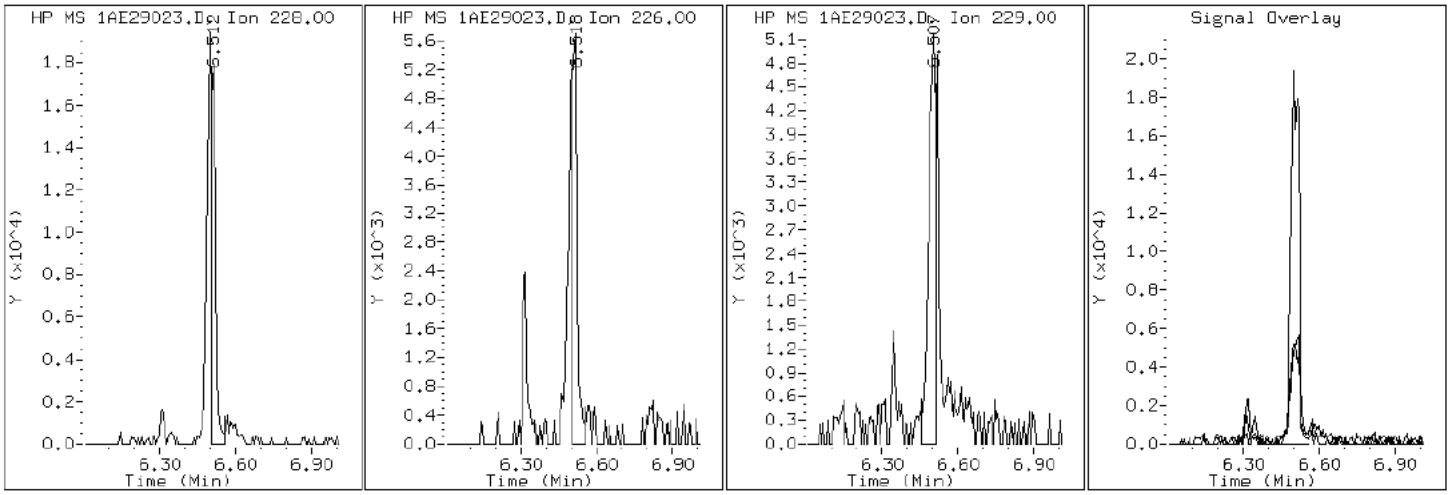
Data File: 1AE29023.D

Date: 29-MAY-2013 19:45

Client ID: CV0912D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-37-a Operator: SCC

20 Chrysene



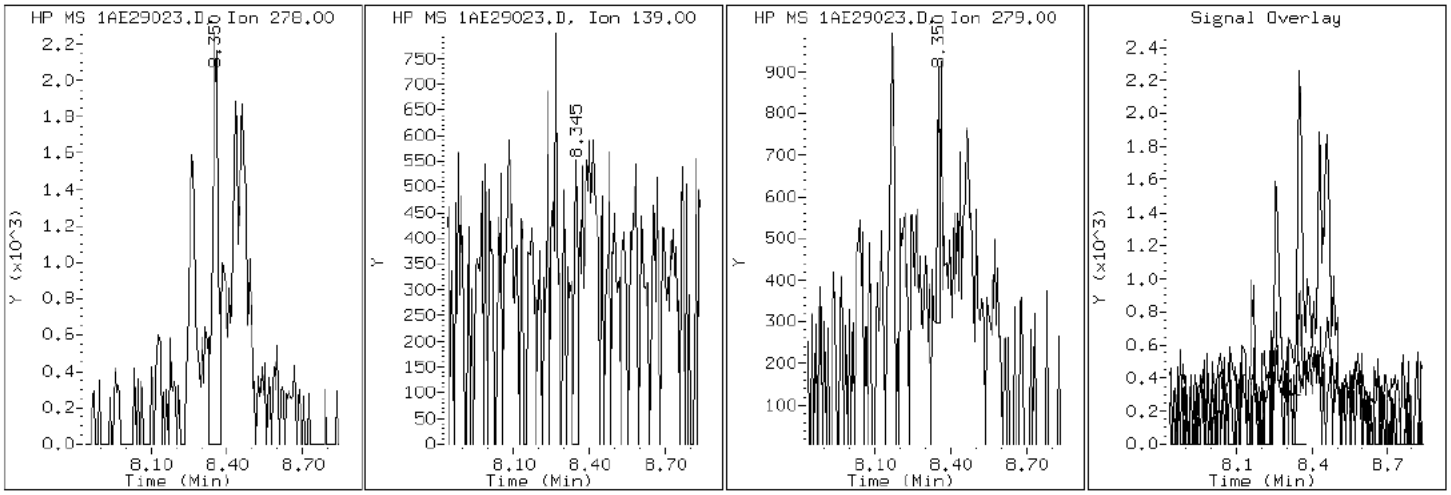
Data File: 1AE29023.D

Date: 29-MAY-2013 19:45

Client ID: CV0912D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-37-a Operator: SCC

26 Dibenzo(a,h)anthracene



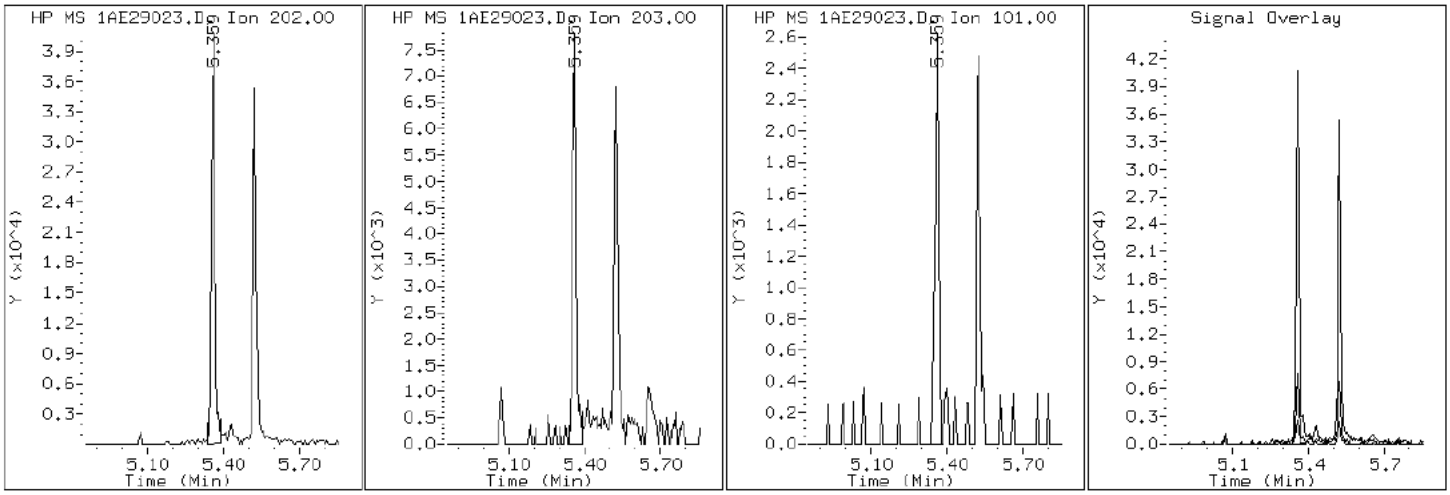
Data File: 1AE29023.D

Date: 29-MAY-2013 19:45

Client ID: CV0912D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-37-a Operator: SCC

16 Fluoranthene



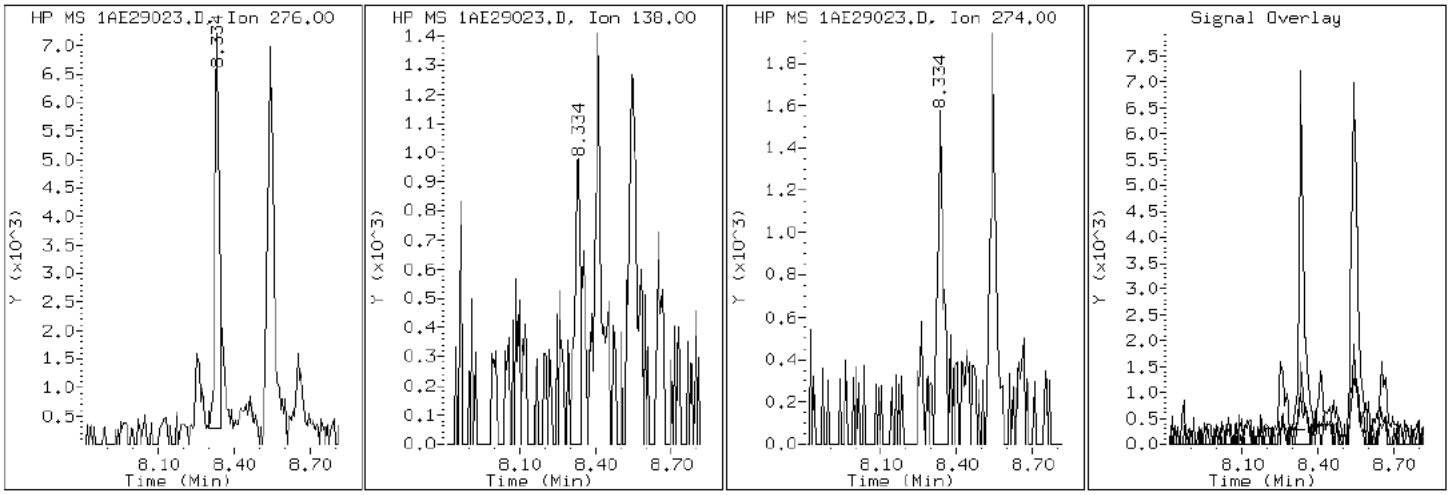
Data File: 1AE29023.D

Date: 29-MAY-2013 19:45

Client ID: CV0912D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-37-a Operator: SCC

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



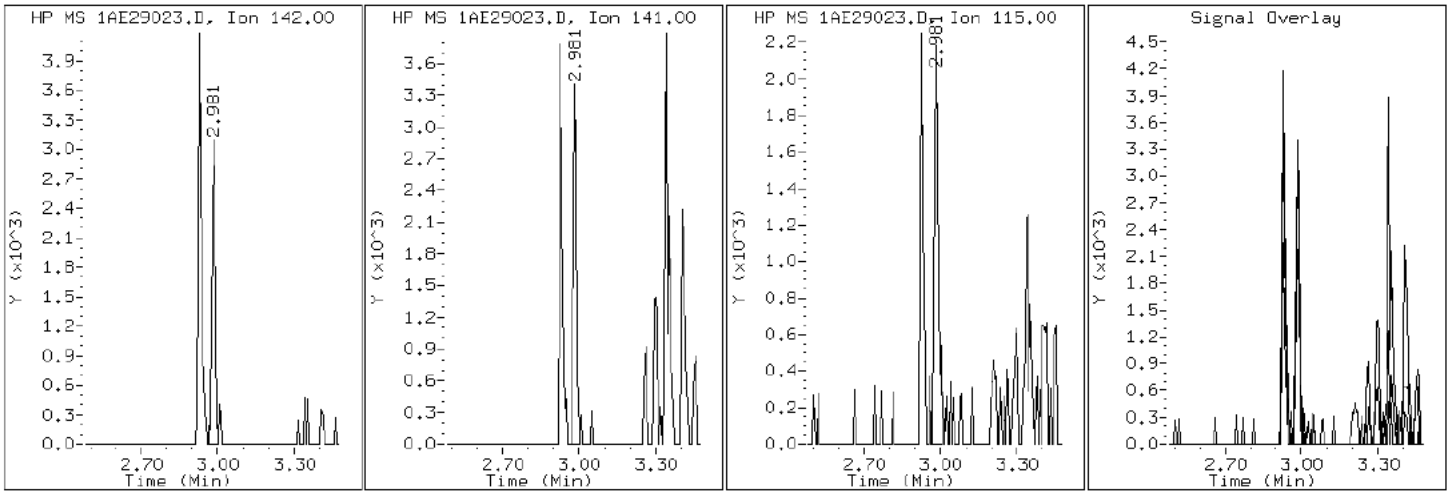
Data File: 1AE29023.D

Date: 29-MAY-2013 19:45

Client ID: CV0912D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-37-a Operator: SCC

4 1-Methylnaphthalene



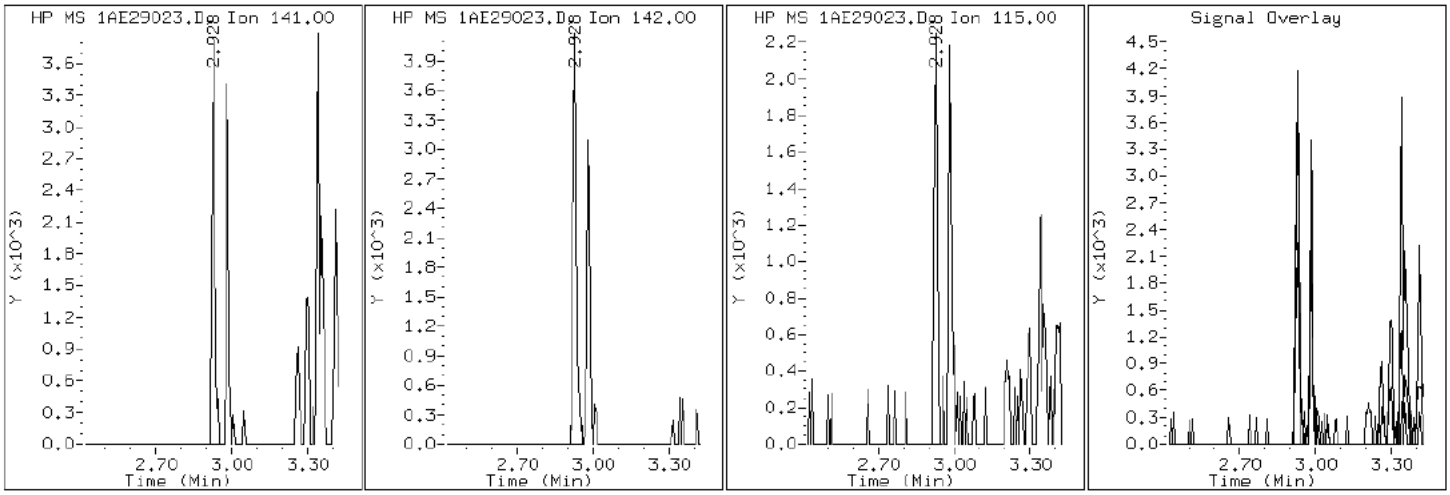
Data File: 1AE29023.D

Date: 29-MAY-2013 19:45

Client ID: CV0912D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-37-a Operator: SCC

3 2-Methylnaphthalene



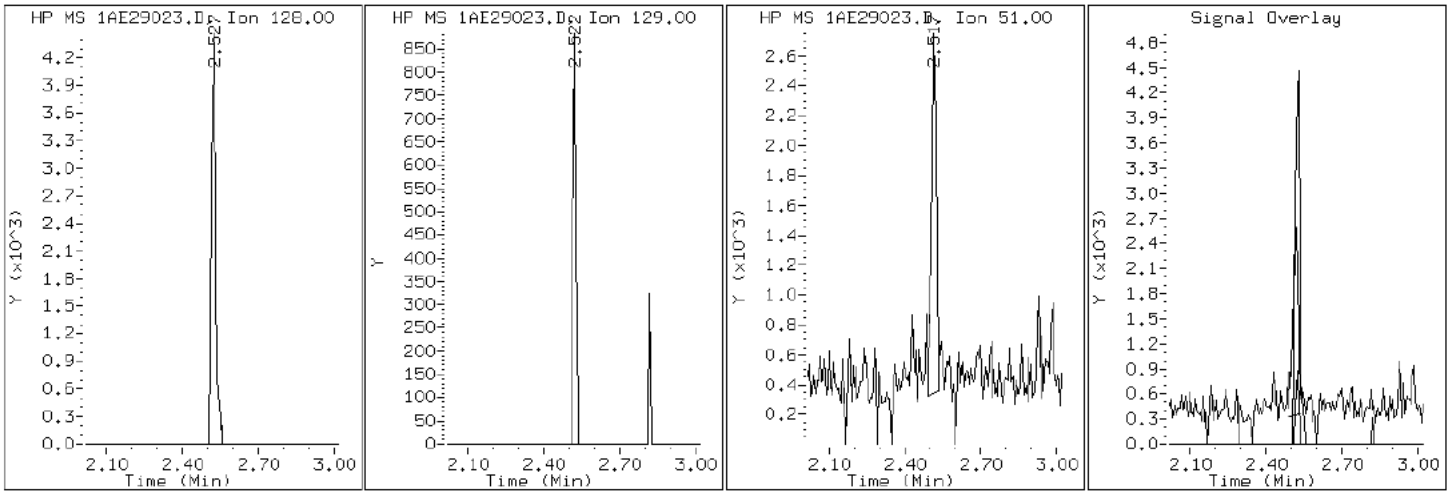
Data File: 1AE29023.D

Date: 29-MAY-2013 19:45

Client ID: CV0912D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-37-a Operator: SCC

2 Naphthalene



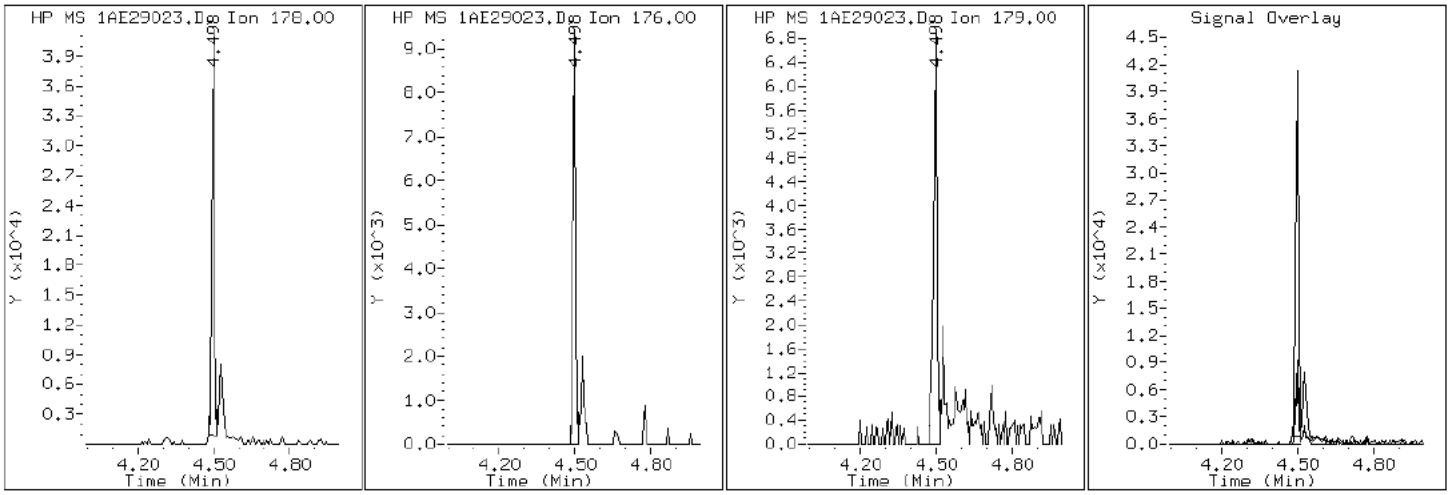
Data File: 1AE29023.D

Date: 29-MAY-2013 19:45

Client ID: CV0912D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-37-a Operator: SCC

12 Phenanthrene



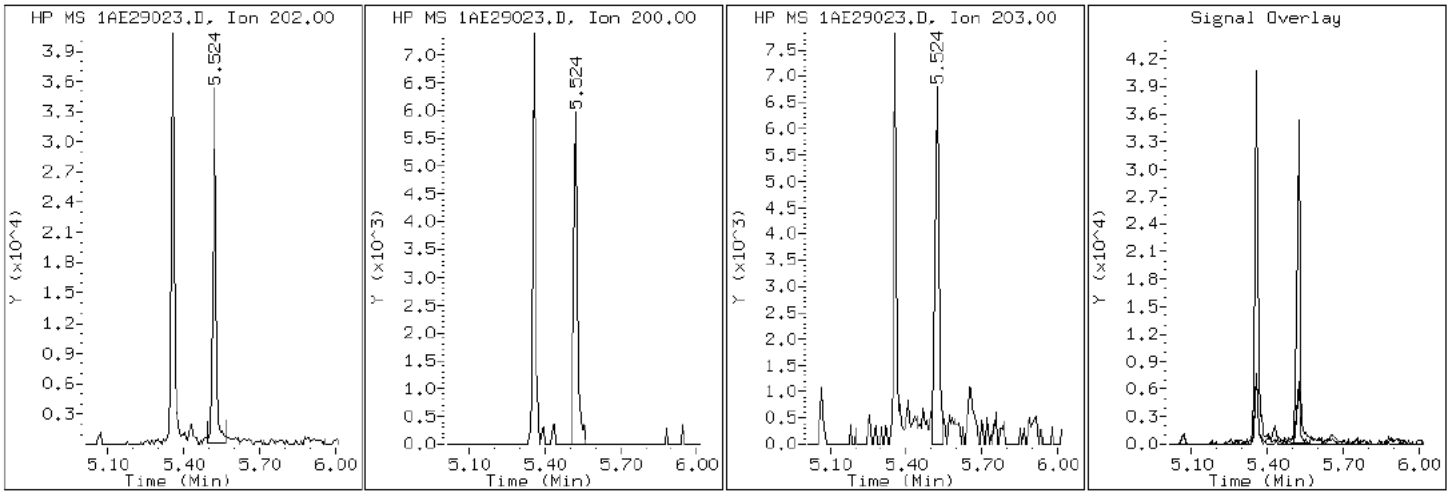
Data File: 1AE29023.D

Date: 29-MAY-2013 19:45

Client ID: CV0912D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-37-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AE29023.D
Inj. Date and Time: 29-MAY-2013 19:45
Instrument ID: BSMA5973.i
Client ID: CV0912D-CS-SP
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/04/2013

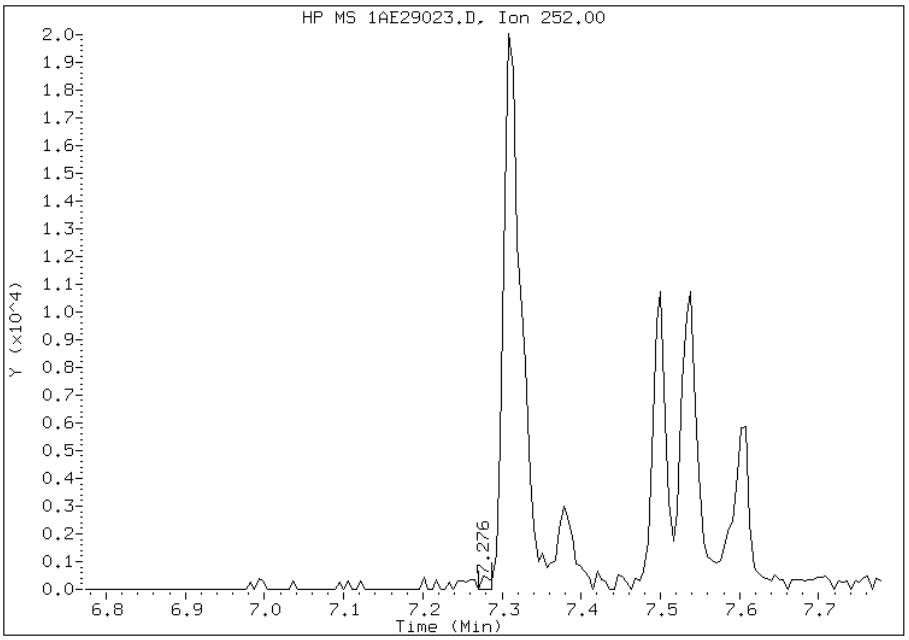
Processing Integration Results

RT: 7.28

Response: 381

Amount: 0

Conc: 76



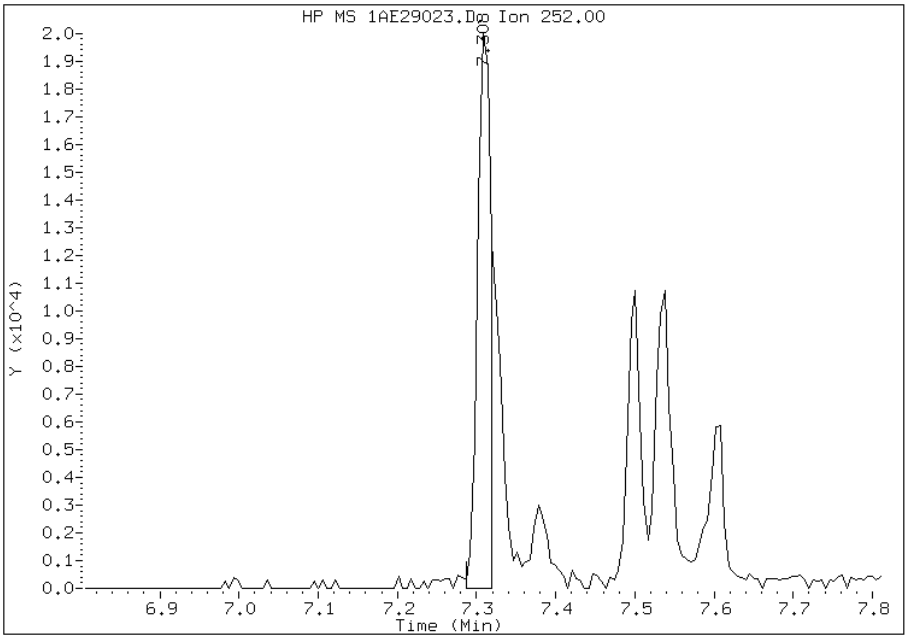
Manual Integration Results

RT: 7.31

Response: 23092

Amount: 1

Conc: 469



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:45
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29023.D
Inj. Date and Time: 29-MAY-2013 19:45
Instrument ID: BSMA5973.i
Client ID: CV0912D-CS-SP
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/04/2013

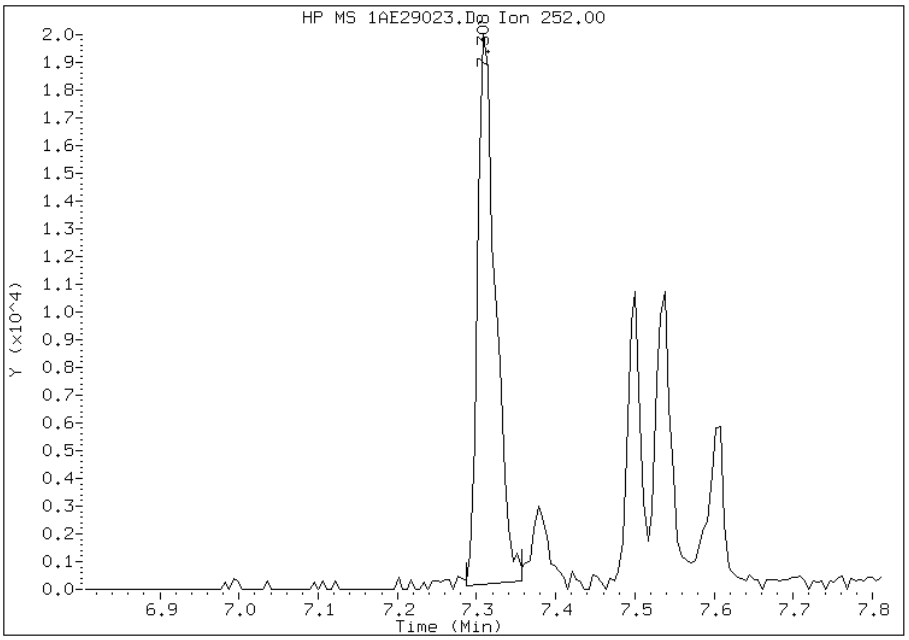
Processing Integration Results

RT: 7.31

Response: 30997

Amount: 1

Conc: 486



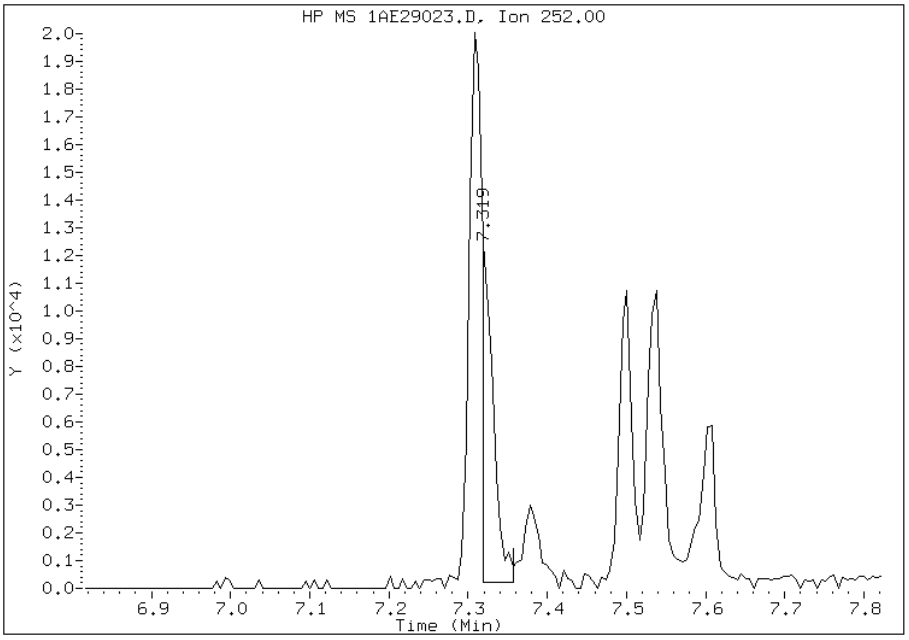
Manual Integration Results

RT: 7.32

Response: 12231

Amount: 1

Conc: 192



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29023.D
Inj. Date and Time: 29-MAY-2013 19:45
Instrument ID: BSMA5973.i
Client ID: CV0912D-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/04/2013

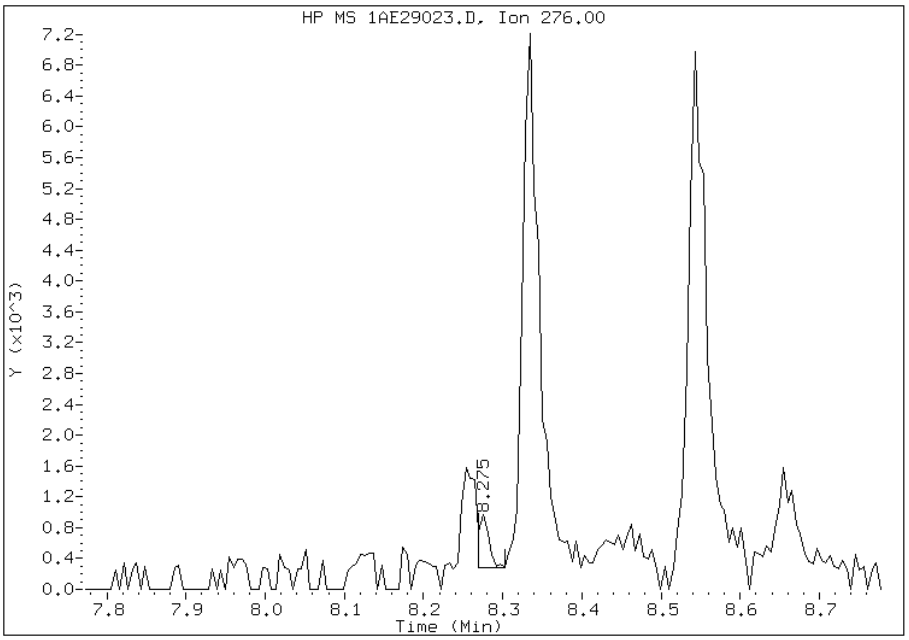
Processing Integration Results

RT: 8.28

Response: 599

Amount: 0

Conc: 64



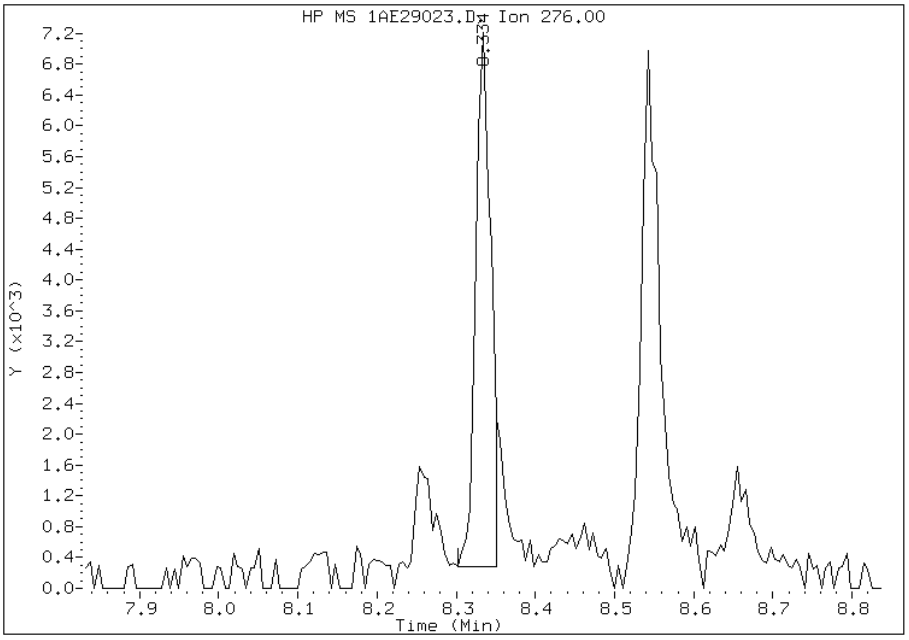
Manual Integration Results

RT: 8.33

Response: 9058

Amount: 1

Conc: 243



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV1189A-CS-SP | Lab Sample ID: 680-90622-38

Matrix: Solid | Lab File ID: 1AE29024.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 13:03

Extract. Method: 3546 | Date Extracted: 05/29/2013 06:31

Sample wt/vol: 15.26(g) | Date Analyzed: 05/29/2013 19:59

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

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

% Moisture: 19.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137876 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	200	U	200	24
120-12-7	Anthracene	42		41	21
56-55-3	Benzo[a]anthracene	39	U	39	19
50-32-8	Benzo[a]pyrene	94		51	25
205-99-2	Benzo[b]fluoranthene	160		60	30
191-24-2	Benzo[g,h,i]perylene	110		98	22
207-08-9	Benzo[k]fluoranthene	41		39	18
218-01-9	Chrysene	120		44	22
53-70-3	Dibenz(a,h)anthracene	98	U	98	20
206-44-0	Fluoranthene	98		98	20
86-73-7	Fluorene	98	U	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	98	U	98	35
90-12-0	1-Methylnaphthalene	63	J	200	22
91-57-6	2-Methylnaphthalene	78	J	200	35
91-20-3	Naphthalene	48	J	200	22
85-01-8	Phenanthrene	140		39	19
129-00-0	Pyrene	140		98	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29024.D
Lab Smp Id: 680-90622-A-38-A Client Smp ID: CV1189A-CS-SP
Inj Date : 29-MAY-2013 19:59
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-90622-a-38-a
Misc Info : 680-90622-A-38-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-bFASTPAHi-m.m
Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
Als bottle: 21
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.260	Weight Extracted
M	19.585	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.518	2.512	(1.000)	966577	40.0000	
*	7 Acenaphthene-d10	164	3.538	3.533	(1.000)	610253	40.0000	
*	11 Phenanthrene-d10	188	4.484	4.478	(1.000)	891414	40.0000	
$	15 o-Terphenyl	230	4.772	4.772	(1.064)	13315	1.03274	336.6359
*	19 Chrysene-d12	240	6.503	6.492	(1.000)	535998	40.0000	
*	24 Perylene-d12	264	7.598	7.571	(1.000)	586276	40.0000	(H)
	2 Naphthalene	128	2.523	2.518	(1.002)	3194	0.14595	47.5740(Q)
	3 2-Methylnaphthalene	141	2.929	2.924	(1.163)	2485	0.23849	77.7378
	4 1-Methylnaphthalene	142	2.983	2.977	(1.185)	2930	0.19251	62.7526
	5 1,1'-Biphenyl	154	3.207	3.207	(1.274)	645	0.03794	12.3667(Q)
	6 Acenaphthylene	152	3.448	3.447	(0.974)	1428	0.05348	17.4326
	9 Dibenzofuran	168	3.656	3.655	(1.033)	1568	0.07176	23.3926
	12 Phenanthrene	178	4.495	4.494	(1.002)	8642	0.43046	140.3141
	13 Anthracene	178	4.532	4.526	(1.011)	2704	0.12875	41.9665

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Fluoranthene	202	5.360	5.354	(1.195)	7499	0.29917	97.5170
17 Pyrene	202	5.520	5.515	(0.849)	6977	0.43198	140.8094
20 Chrysene	228	6.514	6.508	(1.002)	5471	0.38236	124.6353(Q)
21 Benzo(b)fluoranthene	252	7.310	7.299	(0.962)	5304	0.49309	160.7285(M)
22 Benzo(k)fluoranthene	252	7.321	7.320	(0.963)	2432	0.12468	40.6414(M)
23 Benzo(a)pyrene	252	7.540	7.523	(0.992)	4134	0.28906	94.2238(H)
27 Benzo(g,h,i)perylene	276	8.533	8.522	(1.123)	4284	0.34054	111.0053(H)

QC Flag Legend

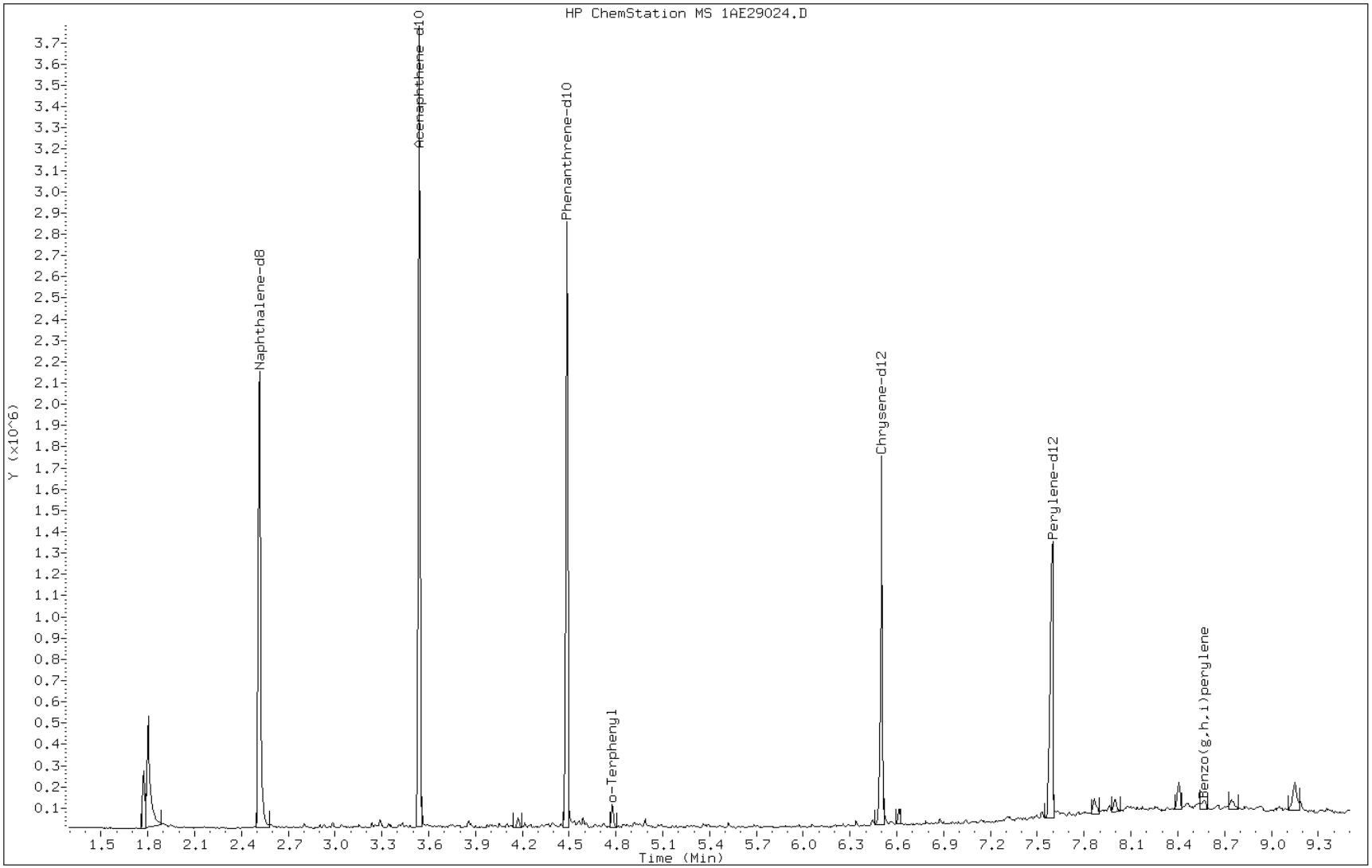
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE29024.D

Date: 29-MAY-2013 19:59

Client ID: CV1189A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-38-a Operator: SCC



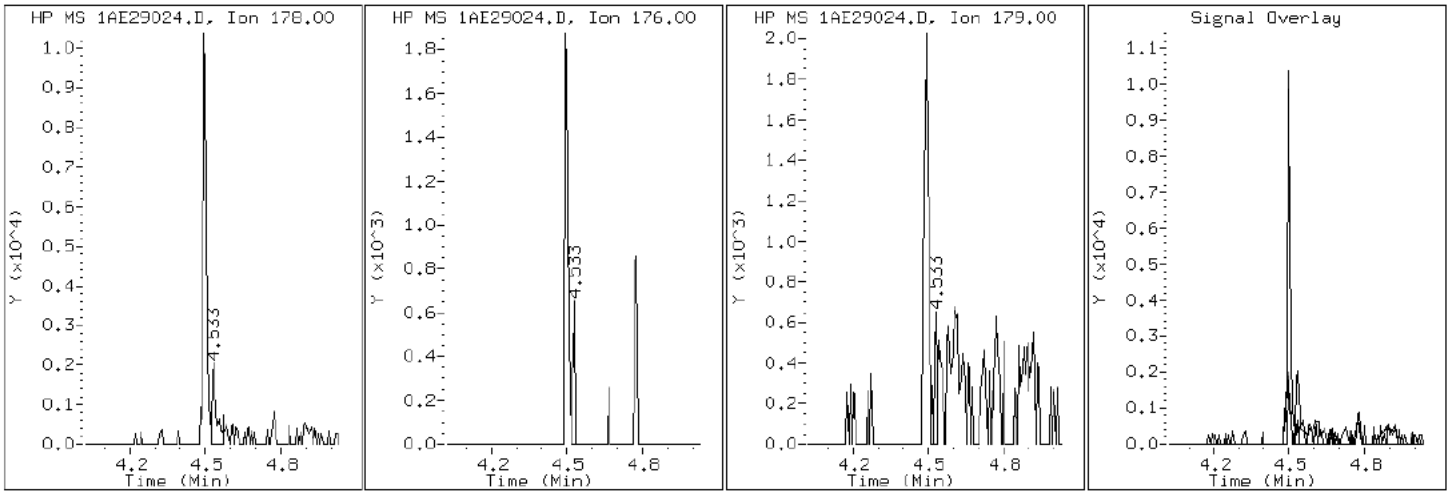
Data File: 1AE29024.D

Date: 29-MAY-2013 19:59

Client ID: CV1189A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-38-a Operator: SCC

13 Anthracene



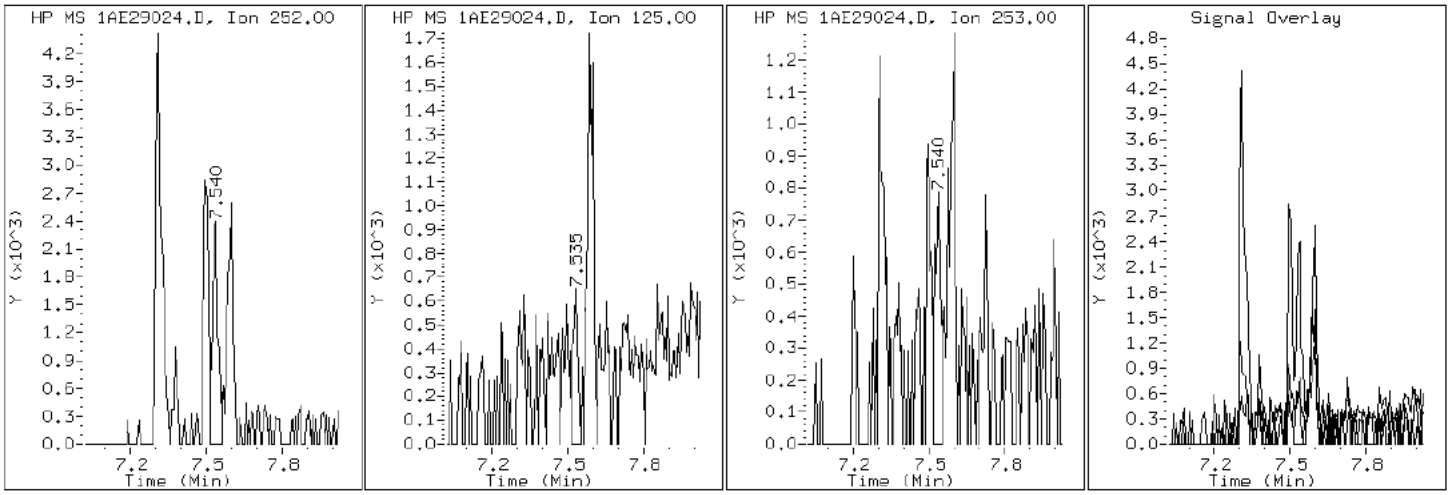
Data File: 1AE29024.D

Date: 29-MAY-2013 19:59

Client ID: CV1189A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-38-a Operator: SCC

23 Benzo(a)pyrene



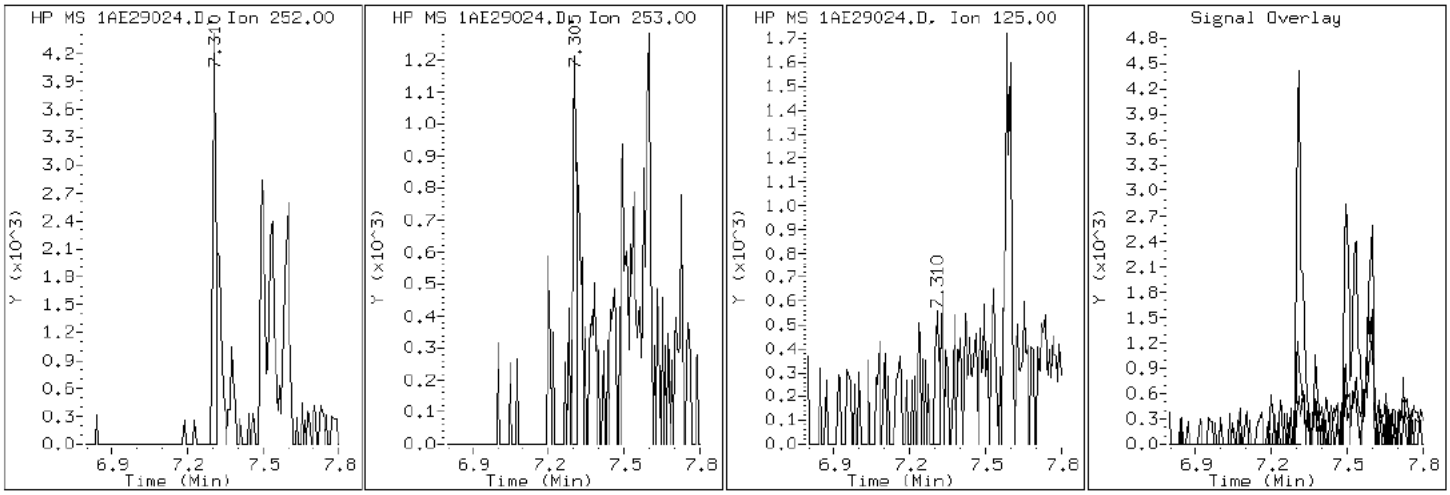
Data File: 1AE29024.D

Date: 29-MAY-2013 19:59

Client ID: CV1189A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-38-a Operator: SCC

21 Benzo(b)fluoranthene



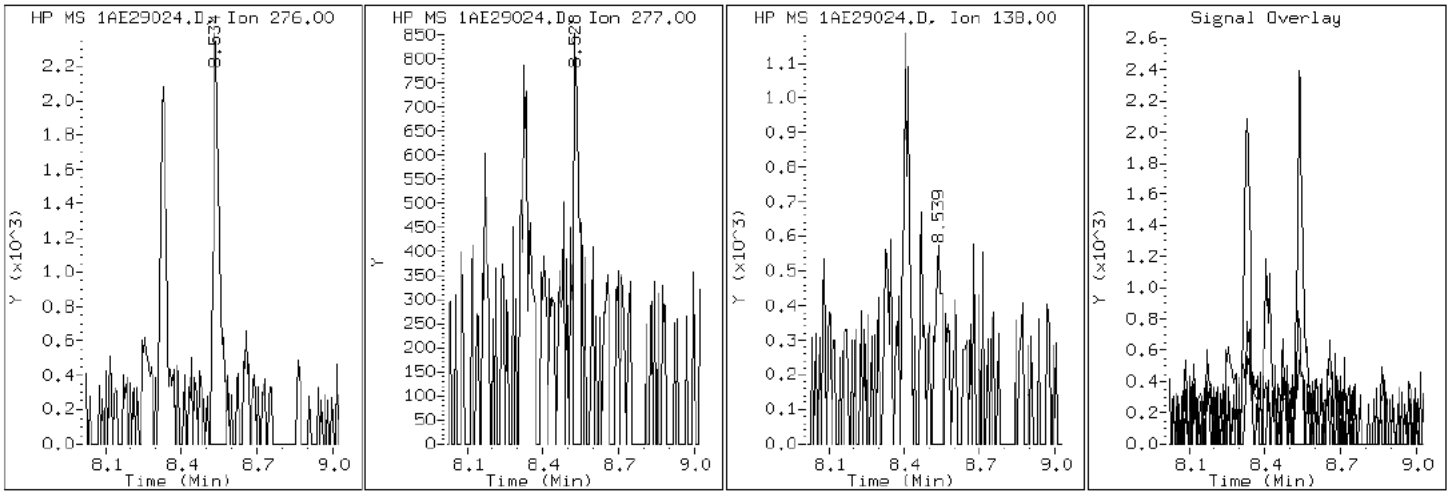
Data File: 1AE29024.D

Date: 29-MAY-2013 19:59

Client ID: CV1189A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-38-a Operator: SCC

27 Benzo(g,h,i)perylene



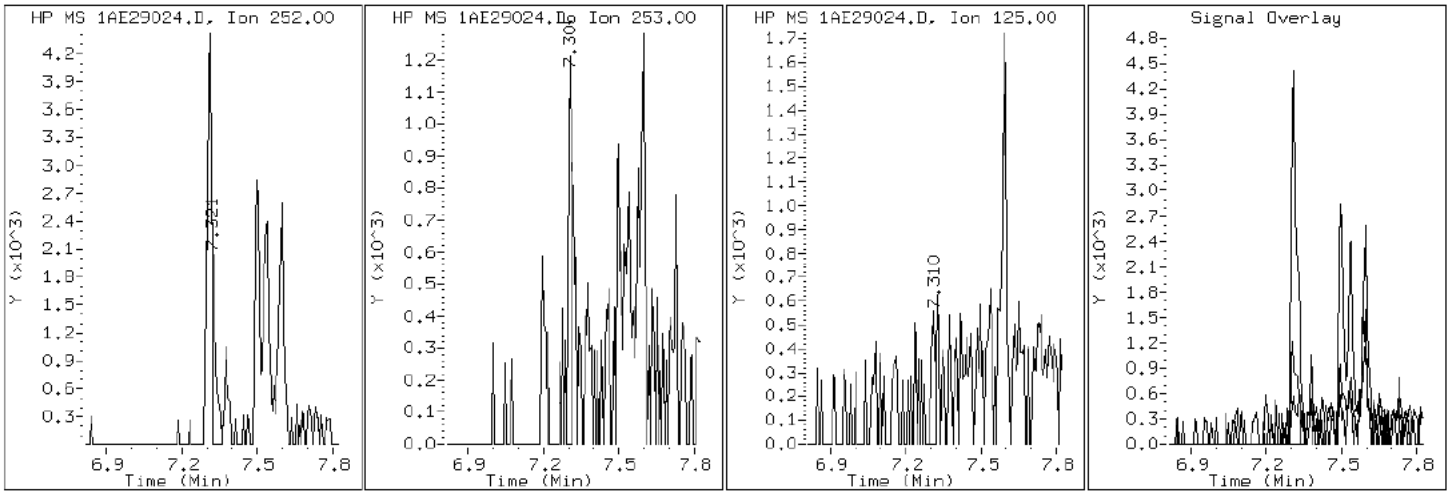
Data File: 1AE29024.D

Date: 29-MAY-2013 19:59

Client ID: CV1189A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-38-a Operator: SCC

22 Benzo(k)fluoranthene



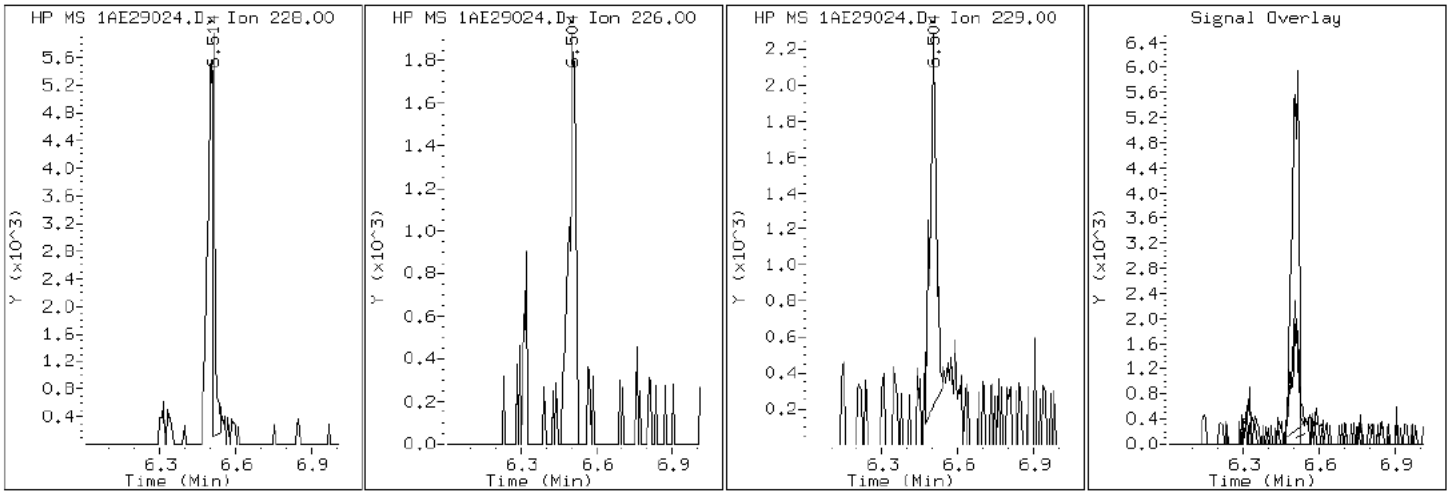
Data File: 1AE29024.D

Date: 29-MAY-2013 19:59

Client ID: CV1189A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-38-a Operator: SCC

20 Chrysene



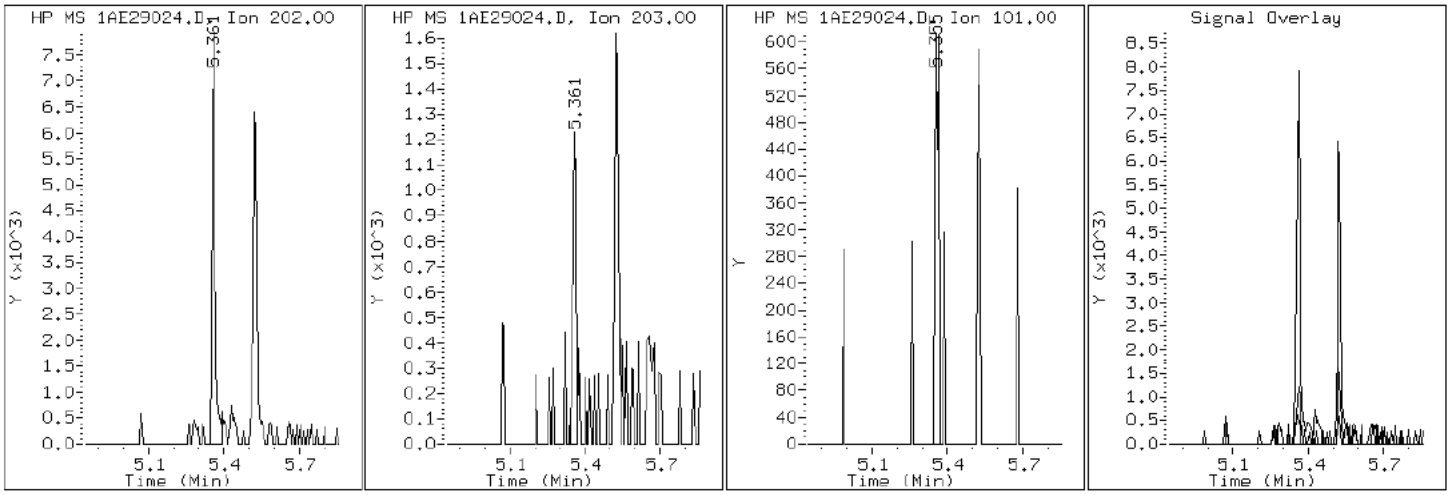
Data File: 1AE29024.D

Date: 29-MAY-2013 19:59

Client ID: CV1189A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-38-a Operator: SCC

16 Fluoranthene



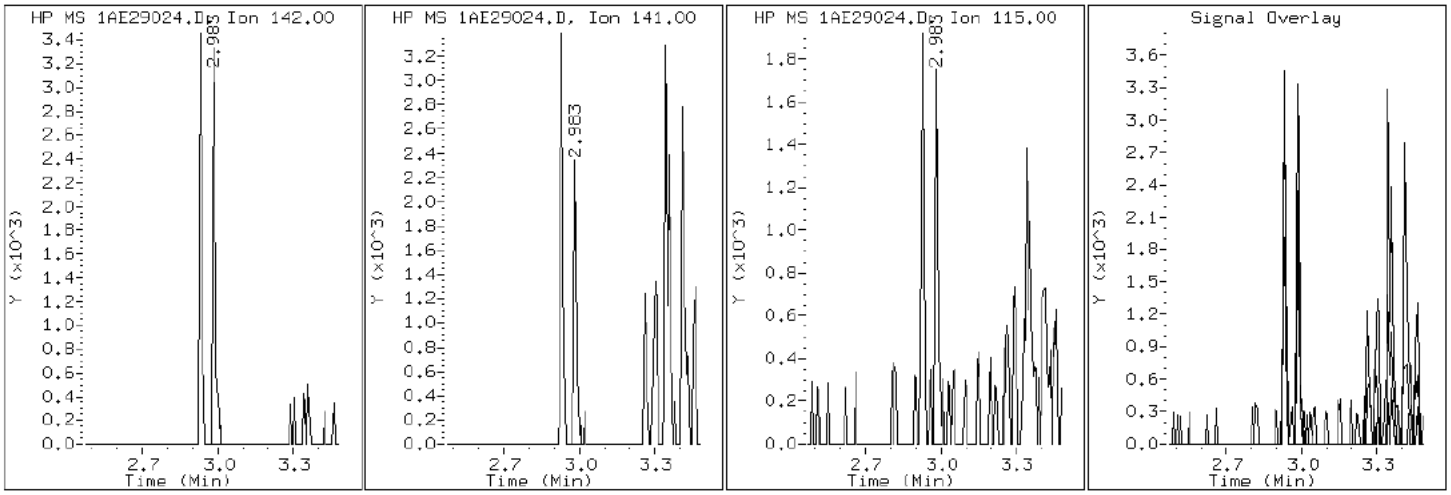
Data File: 1AE29024.D

Date: 29-MAY-2013 19:59

Client ID: CV1189A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-38-a Operator: SCC

4 1-Methylnaphthalene



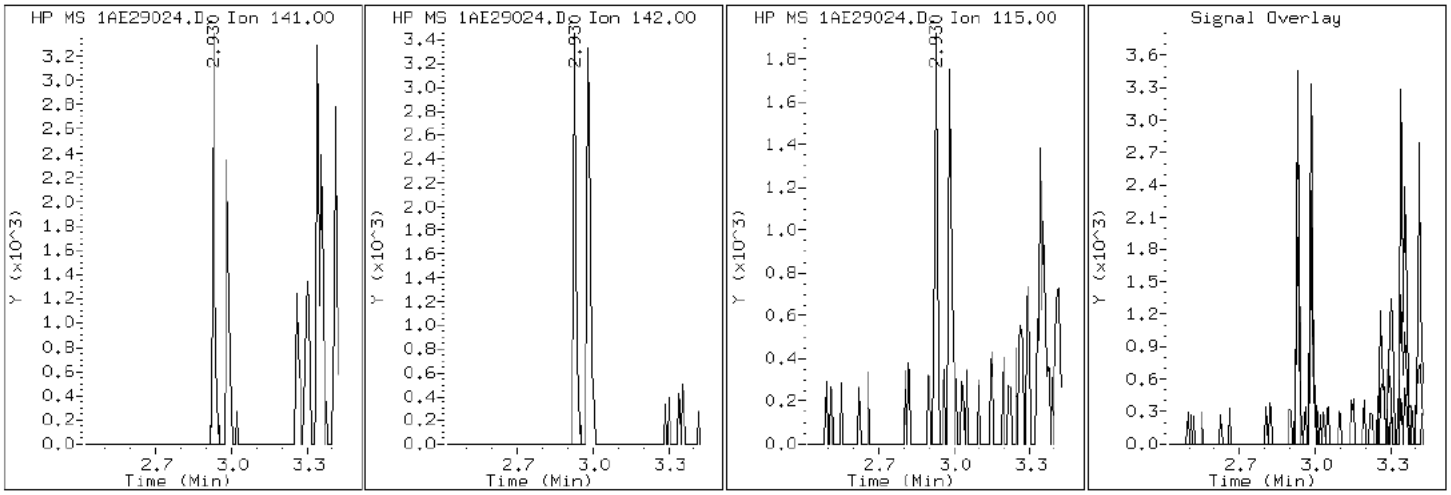
Data File: 1AE29024.D

Date: 29-MAY-2013 19:59

Client ID: CV1189A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-38-a Operator: SCC

3 2-Methylnaphthalene



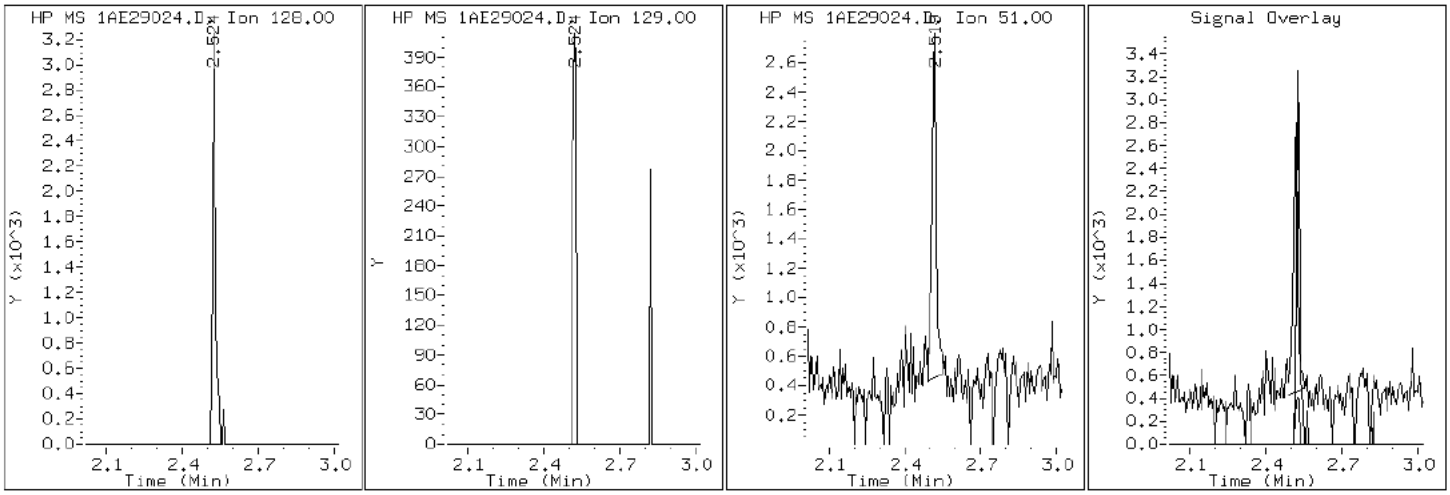
Data File: 1AE29024.D

Date: 29-MAY-2013 19:59

Client ID: CV1189A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-38-a Operator: SCC

2 Naphthalene



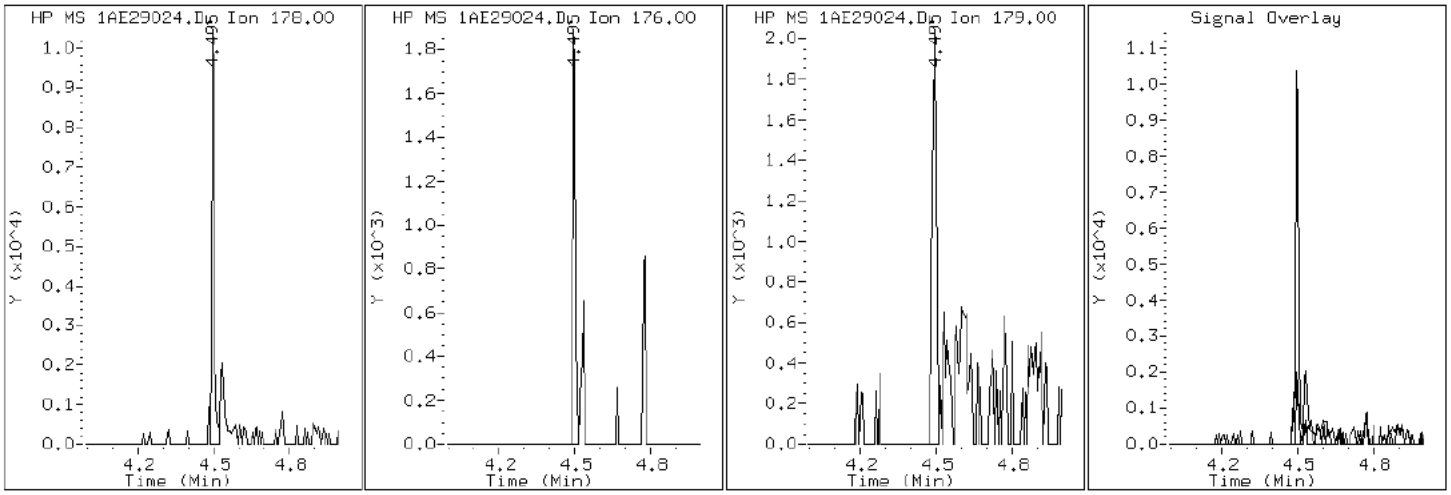
Data File: 1AE29024.D

Date: 29-MAY-2013 19:59

Client ID: CV1189A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-38-a Operator: SCC

12 Phenanthrene



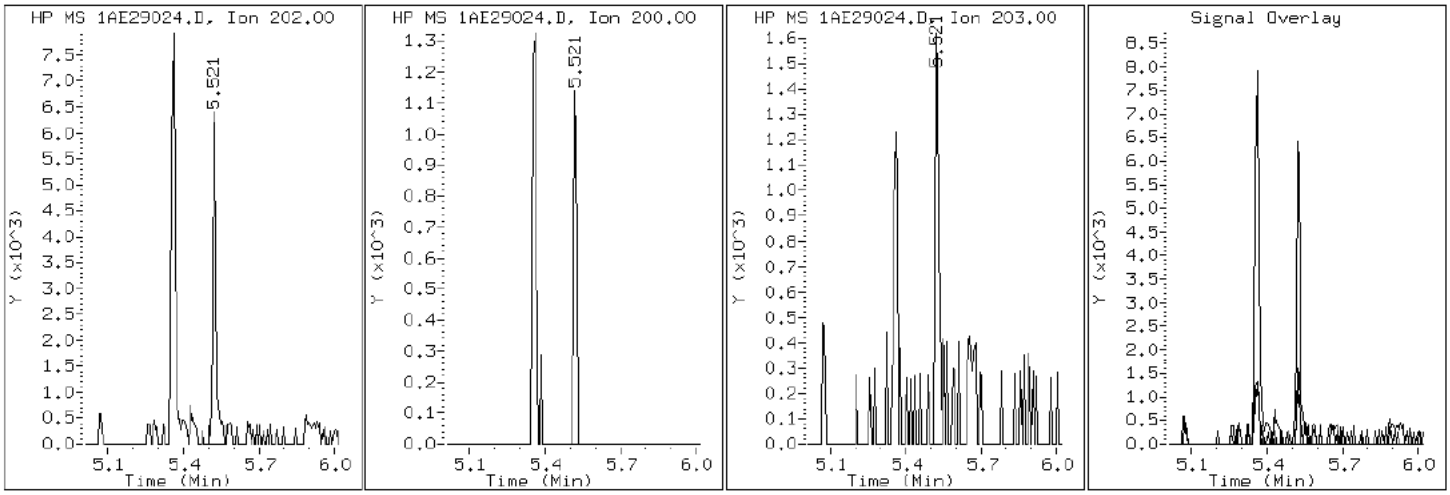
Data File: 1AE29024.D

Date: 29-MAY-2013 19:59

Client ID: CV1189A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-38-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AE29024.D
Inj. Date and Time: 29-MAY-2013 19:59
Instrument ID: BSMA5973.i
Client ID: CV1189A-CS-SP
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/04/2013

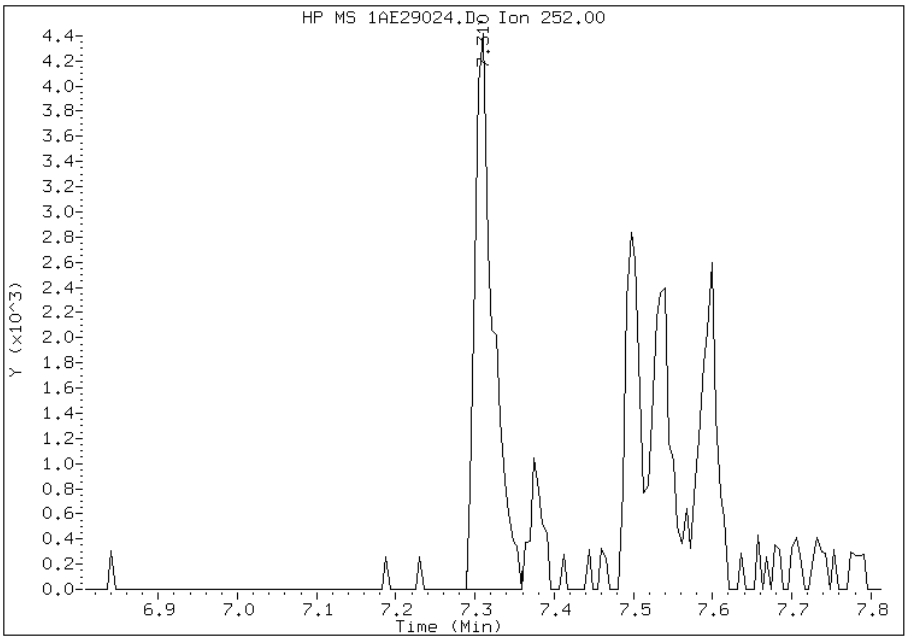
Processing Integration Results

RT: 7.31

Response: 7092

Amount: 1

Conc: 194



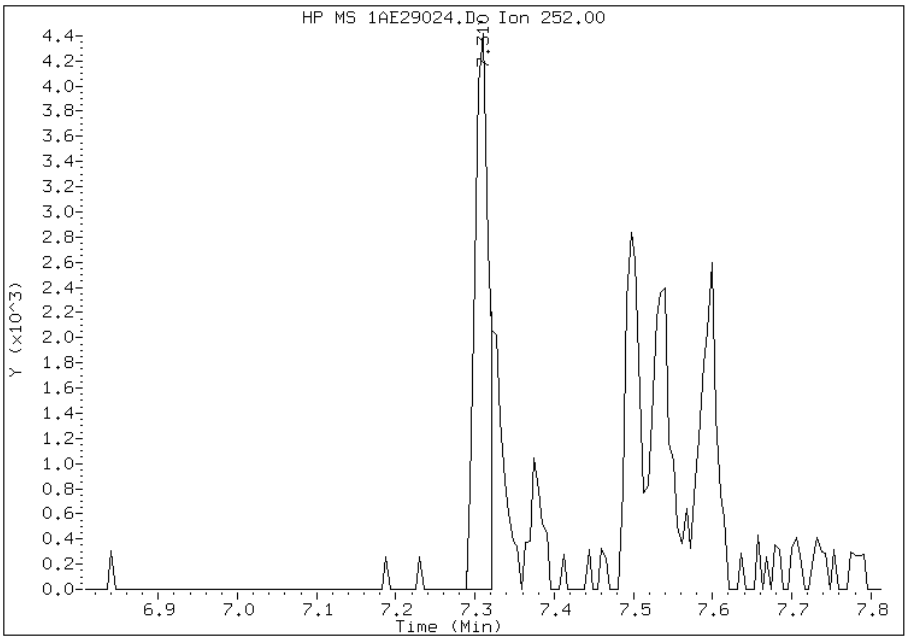
Manual Integration Results

RT: 7.31

Response: 5304

Amount: 0

Conc: 161



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:46
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29024.D
Inj. Date and Time: 29-MAY-2013 19:59
Instrument ID: BSMA5973.i
Client ID: CV1189A-CS-SP
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/04/2013

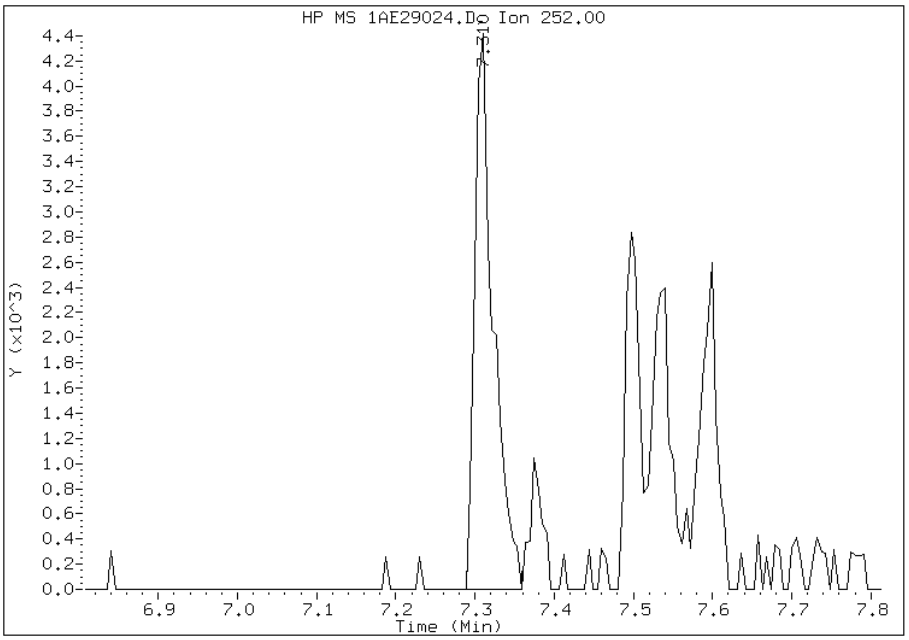
Processing Integration Results

RT: 7.31

Response: 7092

Amount: 0

Conc: 119



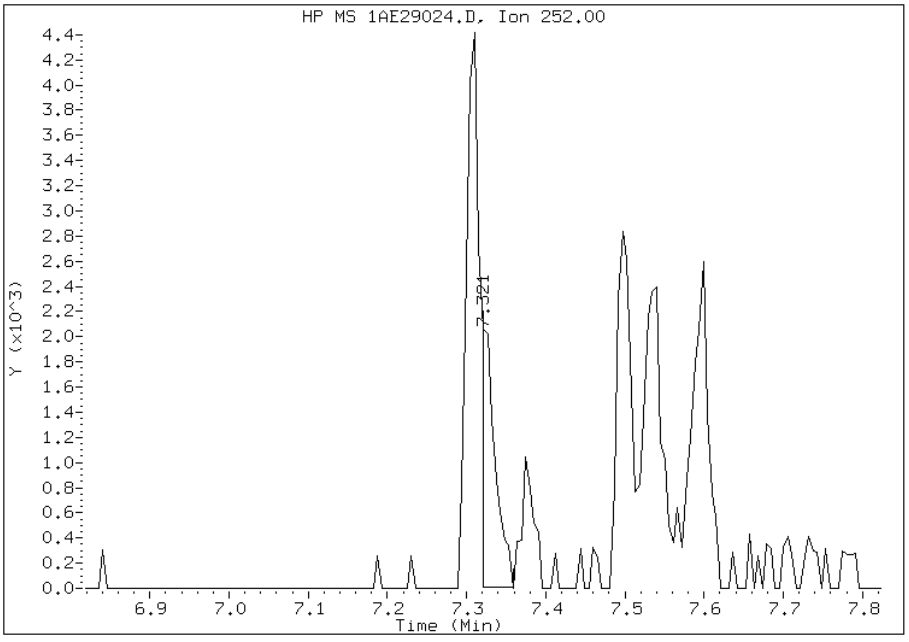
Manual Integration Results

RT: 7.32

Response: 2432

Amount: 0

Conc: 41



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:46
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV1189B-CS-SP | Lab Sample ID: 680-90622-39

Matrix: Solid | Lab File ID: 1AE29025.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 13:15

Extract. Method: 3546 | Date Extracted: 05/29/2013 06:31

Sample wt/vol: 15.15(g) | Date Analyzed: 05/29/2013 20:14

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

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

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

Analysis Batch No.: 137876 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	200	U	200	24
120-12-7	Anthracene	27	J	41	21
56-55-3	Benzo[a]anthracene	210		39	19
50-32-8	Benzo[a]pyrene	120		51	25
205-99-2	Benzo[b]fluoranthene	210		60	30
191-24-2	Benzo[g,h,i]perylene	120		98	22
207-08-9	Benzo[k]fluoranthene	59		39	18
218-01-9	Chrysene	160		44	22
53-70-3	Dibenz(a,h)anthracene	98	U	98	20
206-44-0	Fluoranthene	110		98	20
86-73-7	Fluorene	98	U	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	98	U	98	35
90-12-0	1-Methylnaphthalene	68	J	200	22
91-57-6	2-Methylnaphthalene	86	J	200	35
91-20-3	Naphthalene	63	J	200	22
85-01-8	Phenanthrene	140		39	19
129-00-0	Pyrene	140		98	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29025.D
Lab Smp Id: 680-90622-A-39-A Client Smp ID: CV1189B-CS-SP
Inj Date : 29-MAY-2013 20:14
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-90622-a-39-a
Misc Info : 680-90622-A-39-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-bFASTPAHi-m.m
Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
Als bottle: 22
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	18.981	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.515	2.512	(1.000)	955705	40.0000	
* 7 Acenaphthene-d10	164	3.540	3.533	(1.000)	607101	40.0000	
* 11 Phenanthrene-d10	188	4.486	4.478	(1.000)	889133	40.0000	
$ 15 o-Terphenyl	230	4.774	4.772	(1.064)	14154	1.10063	358.6778
* 19 Chrysene-d12	240	6.505	6.492	(1.000)	588822	40.0000	
* 24 Perylene-d12	264	7.600	7.571	(1.000)	623734	40.0000	
2 Naphthalene	128	2.525	2.518	(1.004)	4184	0.19336	63.0134(Q)
3 2-Methylnaphthalene	141	2.926	2.924	(1.164)	2704	0.26246	85.5301
4 1-Methylnaphthalene	142	2.985	2.977	(1.187)	3125	0.20766	67.6737
5 1,1'-Biphenyl	154	3.209	3.207	(1.276)	1474	0.08769	28.5759
6 Acenaphthylene	152	3.449	3.447	(0.974)	1298	0.04886	15.9240
9 Dibenzofuran	168	3.658	3.655	(1.033)	1849	0.08506	27.7212
12 Phenanthrene	178	4.497	4.494	(1.002)	8685	0.43371	141.3393(M)
13 Anthracene	178	4.534	4.526	(1.011)	1748	0.08344	27.1922

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Fluoranthene	202	5.357	5.354	(1.194)	8652	0.34605	112.7716
17 Pyrene	202	5.522	5.515	(0.849)	7474	0.42124	137.2741
18 Benzo(a)anthracene	228	6.505	6.481	(1.000)	11233	0.63545	207.0839
20 Chrysene	228	6.516	6.508	(1.002)	7501	0.47720	155.5128(Q)
21 Benzo(b)fluoranthene	252	7.312	7.299	(0.962)	8707	0.65616	213.8326(M)
22 Benzo(k)fluoranthene	252	7.323	7.320	(0.963)	3727	0.17960	58.5277(QMH)
23 Benzo(a)pyrene	252	7.536	7.523	(0.992)	5702	0.37476	122.1275
27 Benzo(g,h,i)perylene	276	8.546	8.522	(1.124)	5109	0.38174	124.4016

QC Flag Legend

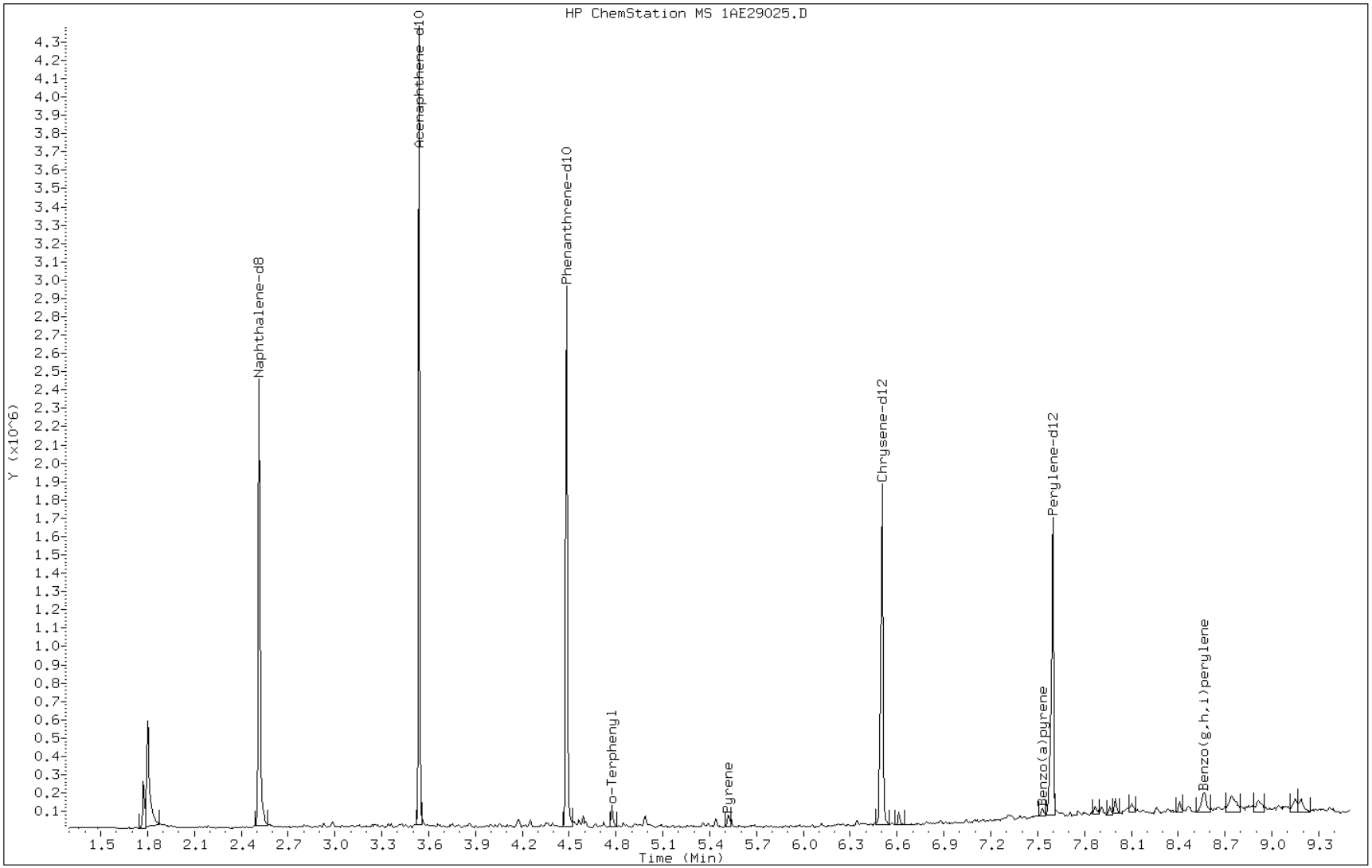
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE29025.D

Date: 29-MAY-2013 20:14

Client ID: CV1189B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-39-a Operator: SCC



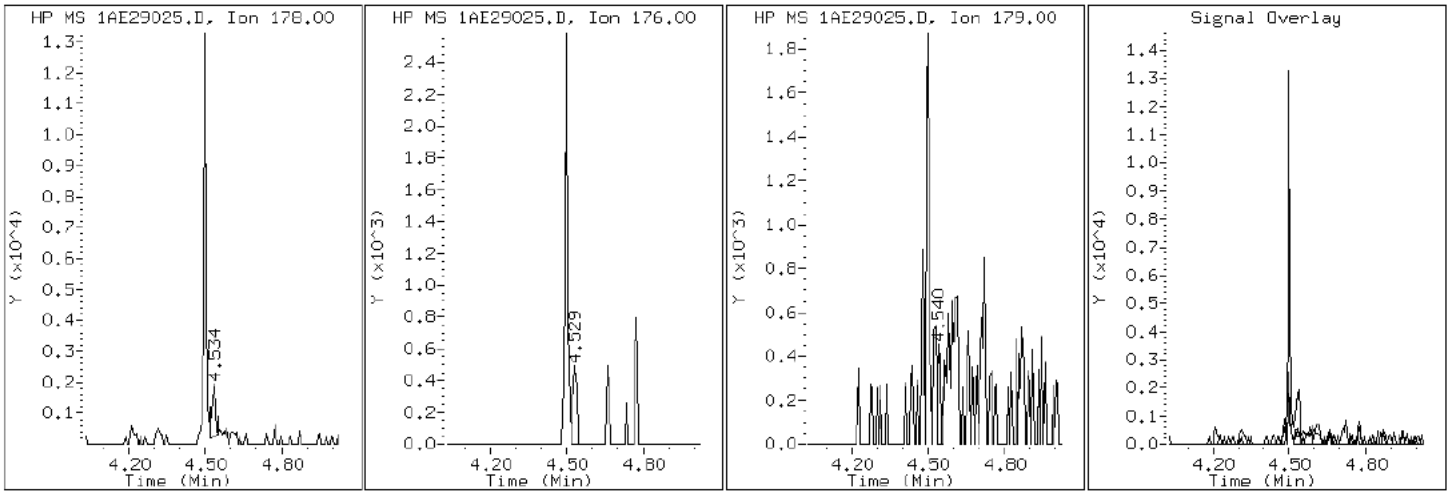
Data File: 1AE29025.D

Date: 29-MAY-2013 20:14

Client ID: CV1189B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-39-a Operator: SCC

13 Anthracene



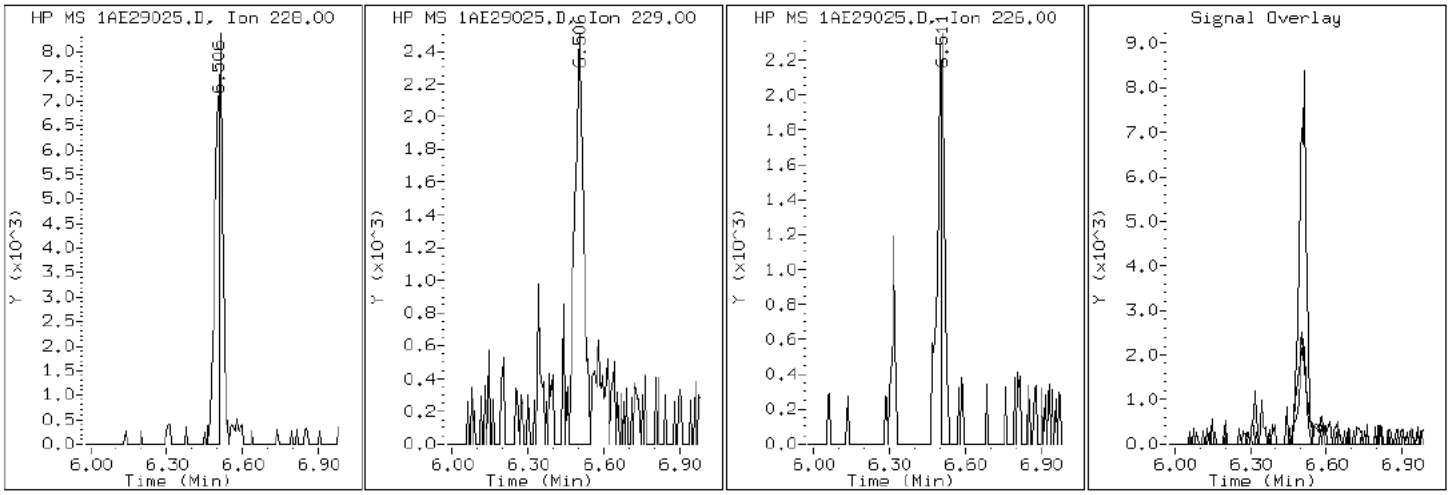
Data File: 1AE29025.D

Date: 29-MAY-2013 20:14

Client ID: CV1189B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-39-a Operator: SCC

18 Benzo(a)anthracene



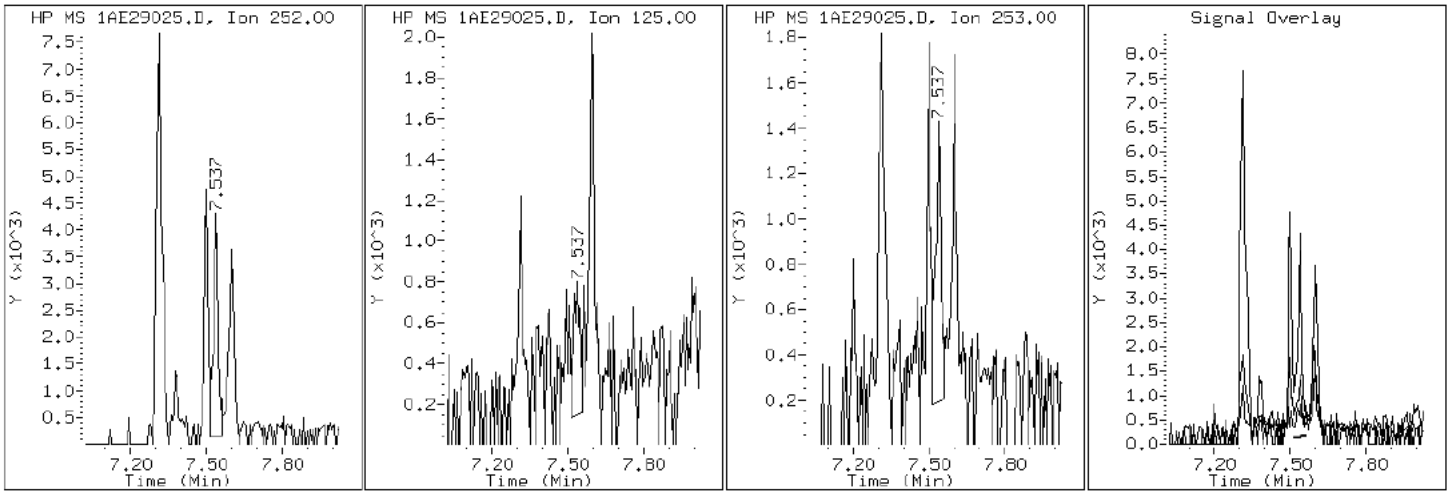
Data File: 1AE29025.D

Date: 29-MAY-2013 20:14

Client ID: CV1189B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-39-a Operator: SCC

23 Benzo(a)pyrene



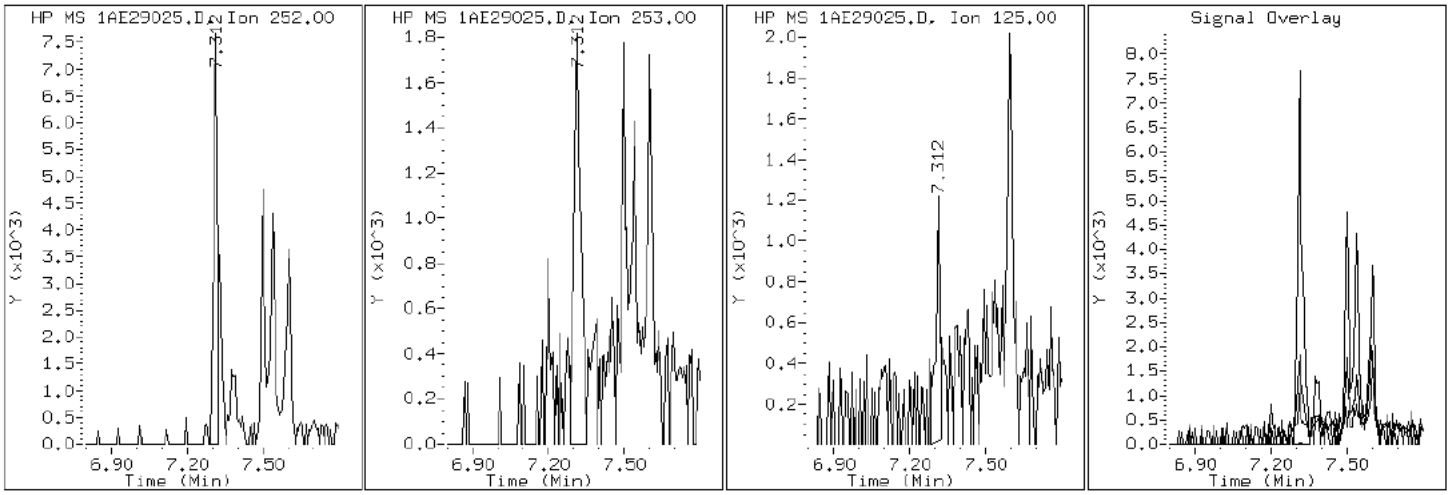
Data File: 1AE29025.D

Date: 29-MAY-2013 20:14

Client ID: CV1189B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-39-a Operator: SCC

21 Benzo(b)fluoranthene



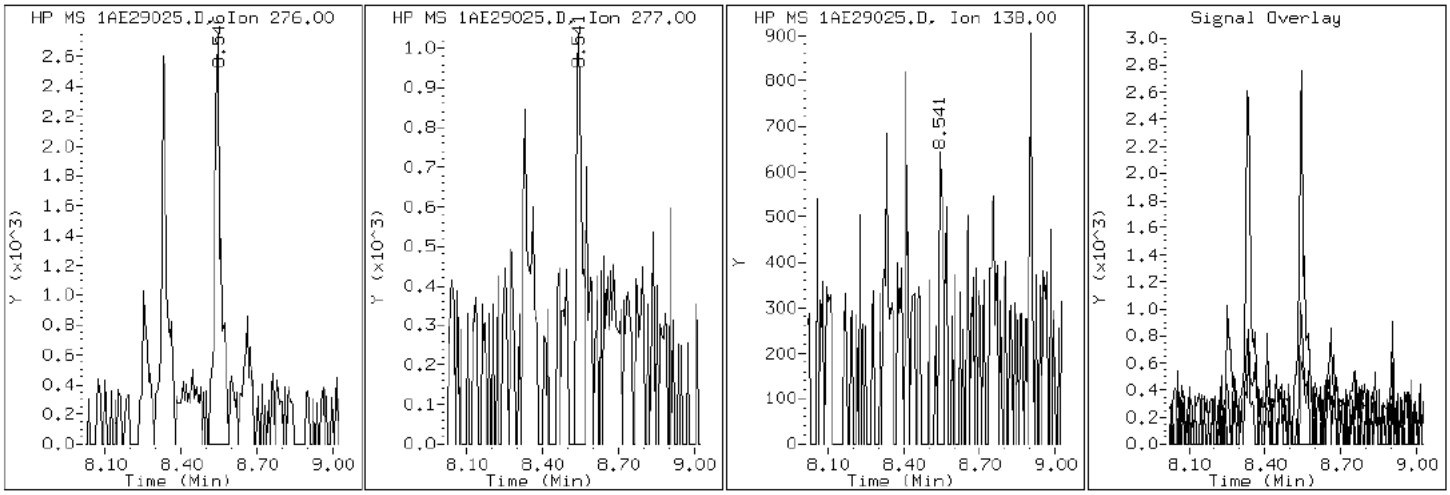
Data File: 1AE29025.D

Date: 29-MAY-2013 20:14

Client ID: CV1189B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-39-a Operator: SCC

27 Benzo(g,h,i)perylene



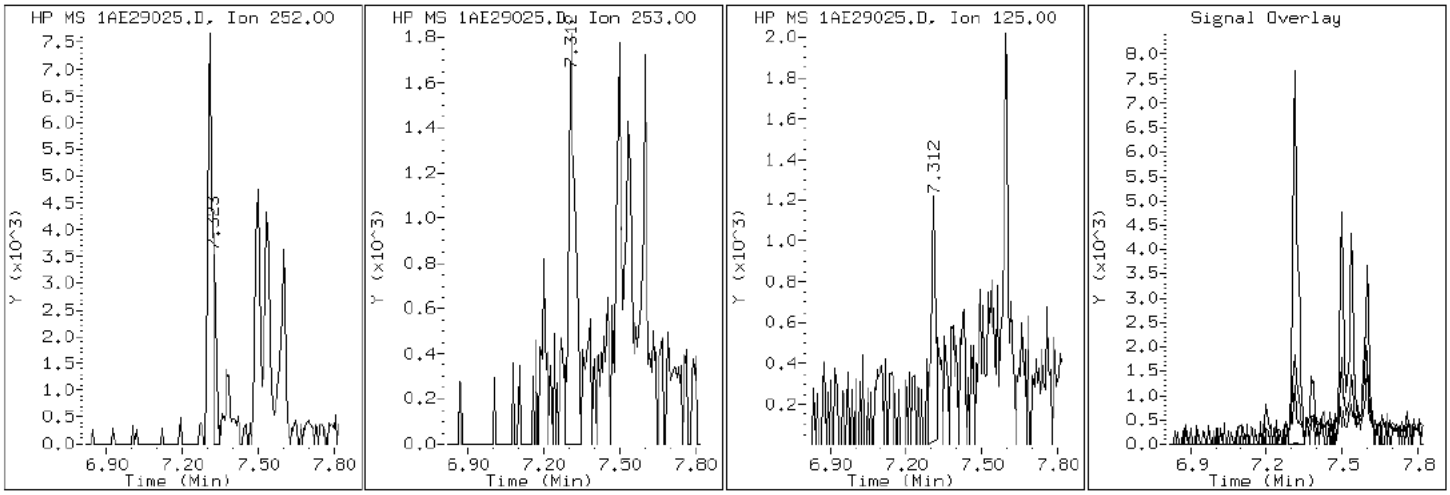
Data File: 1AE29025.D

Date: 29-MAY-2013 20:14

Client ID: CV1189B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-39-a Operator: SCC

22 Benzo(k)fluoranthene



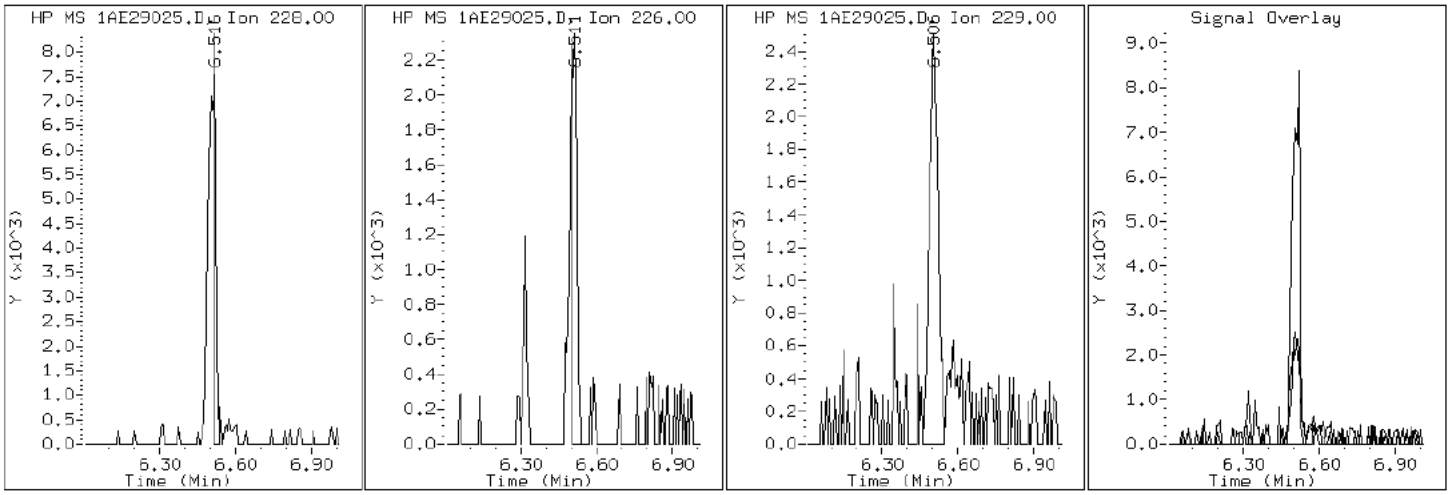
Data File: 1AE29025.D

Date: 29-MAY-2013 20:14

Client ID: CV1189B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-39-a Operator: SCC

20 Chrysene



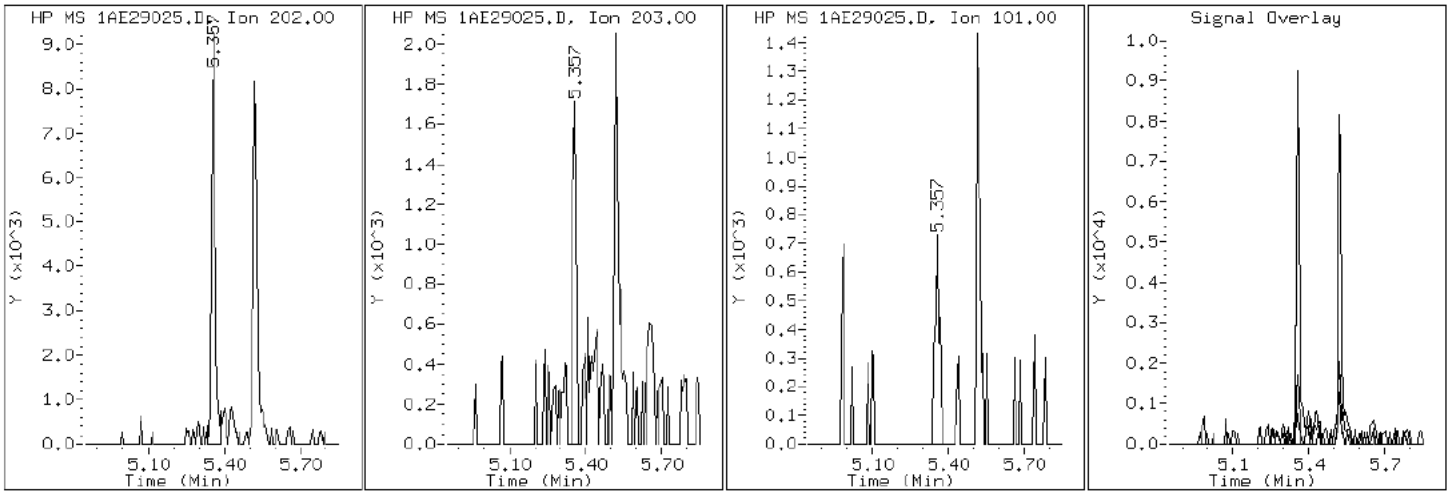
Data File: 1AE29025.D

Date: 29-MAY-2013 20:14

Client ID: CV1189B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-39-a Operator: SCC

16 Fluoranthene



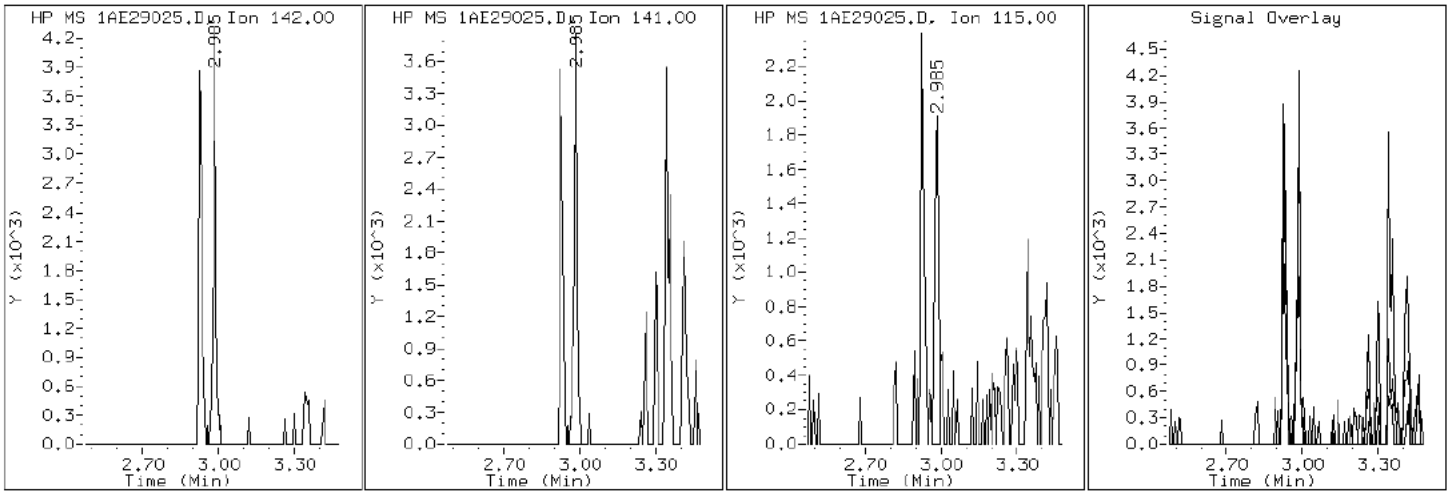
Data File: 1AE29025.D

Date: 29-MAY-2013 20:14

Client ID: CV1189B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-39-a Operator: SCC

4 1-Methylnaphthalene



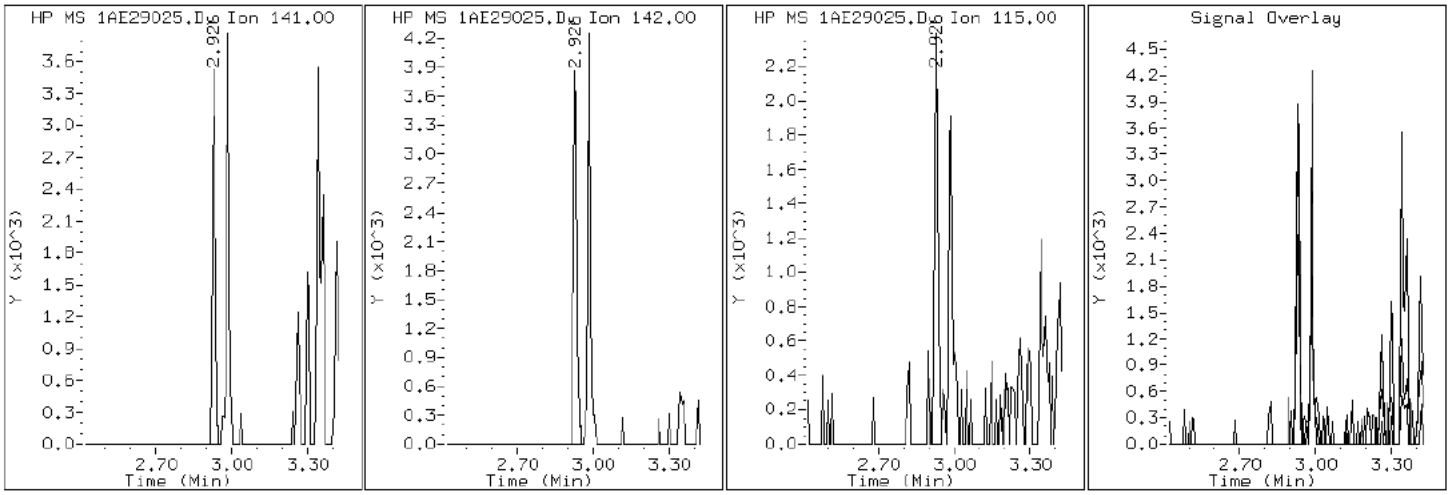
Data File: 1AE29025.D

Date: 29-MAY-2013 20:14

Client ID: CV1189B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-39-a Operator: SCC

3 2-Methylnaphthalene



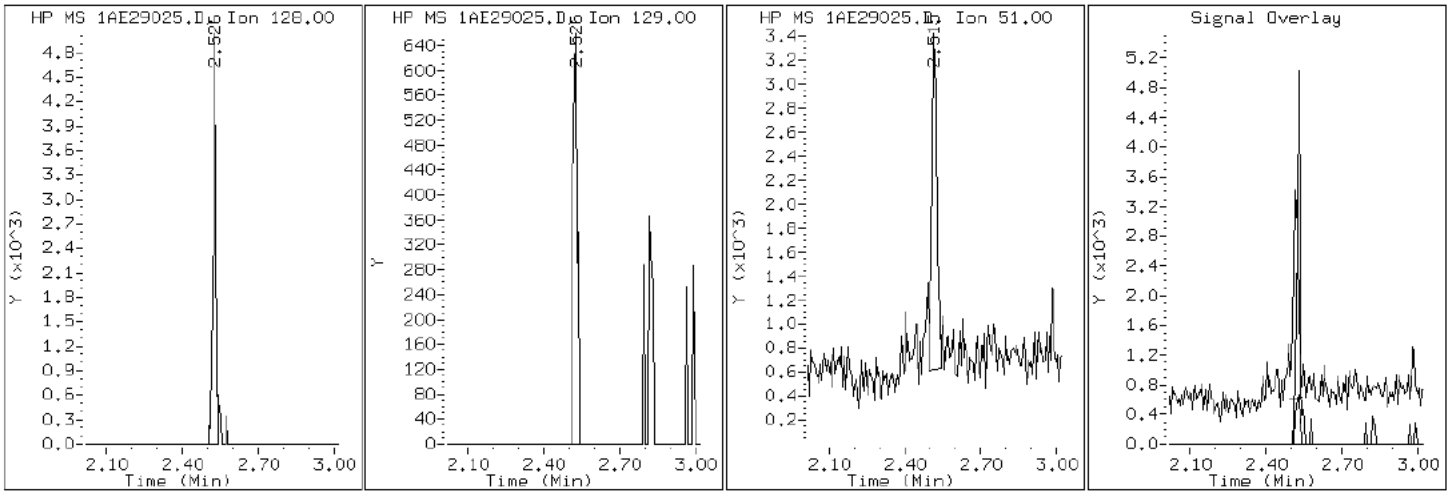
Data File: 1AE29025.D

Date: 29-MAY-2013 20:14

Client ID: CV1189B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-39-a Operator: SCC

2 Naphthalene



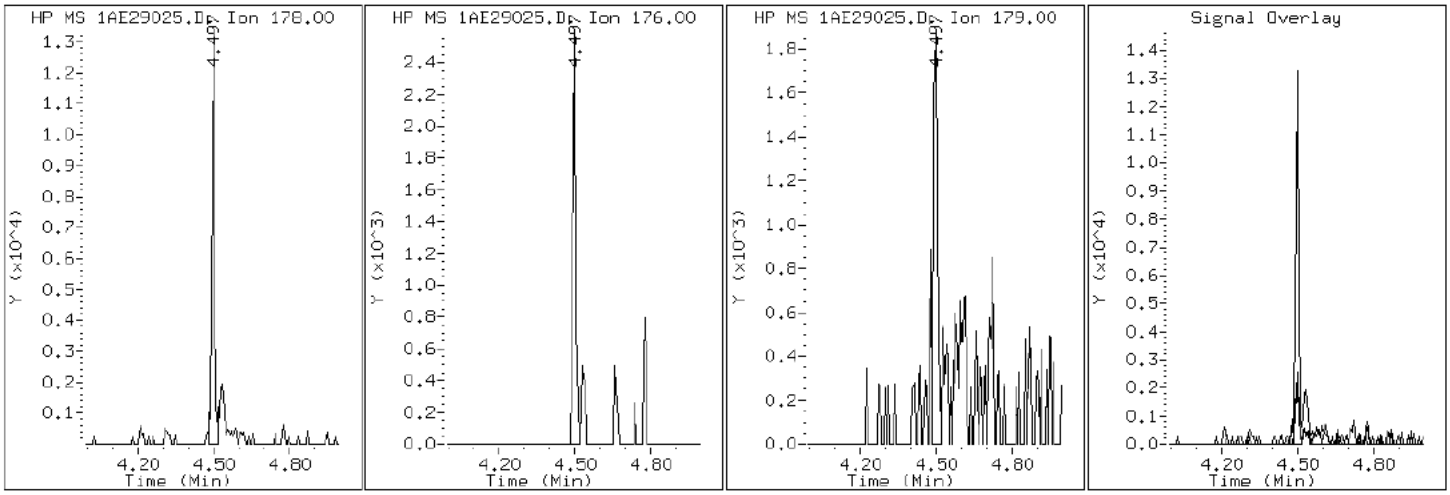
Data File: 1AE29025.D

Date: 29-MAY-2013 20:14

Client ID: CV1189B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-39-a Operator: SCC

12 Phenanthrene



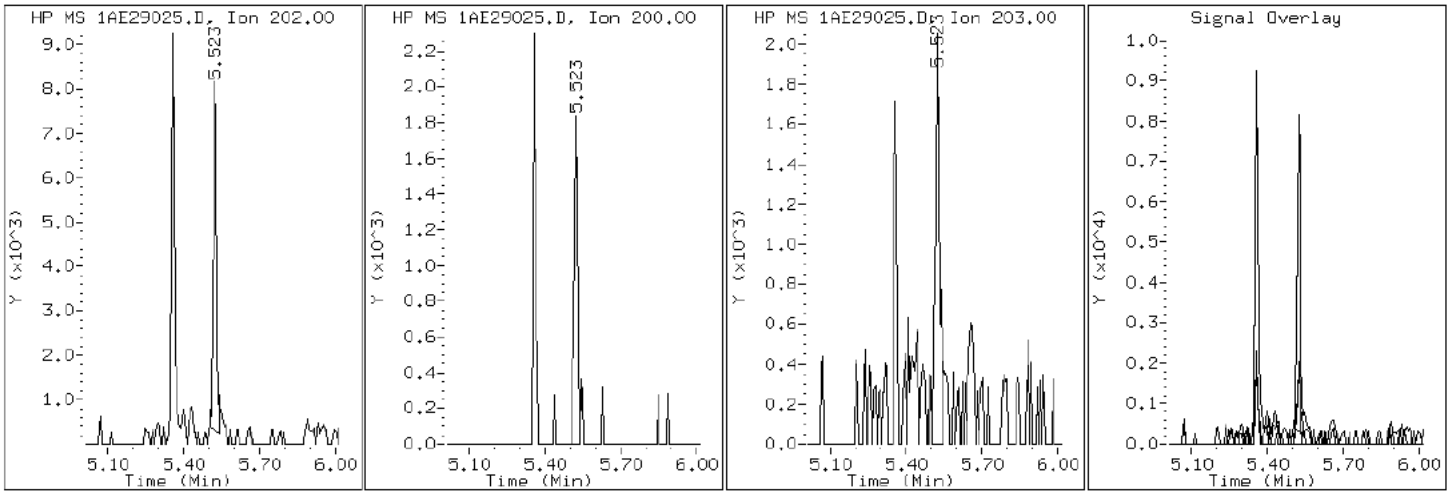
Data File: 1AE29025.D

Date: 29-MAY-2013 20:14

Client ID: CV1189B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-90622-a-39-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AE29025.D
Inj. Date and Time: 29-MAY-2013 20:14
Instrument ID: BSMA5973.i
Client ID: CV1189B-CS-SP
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/04/2013

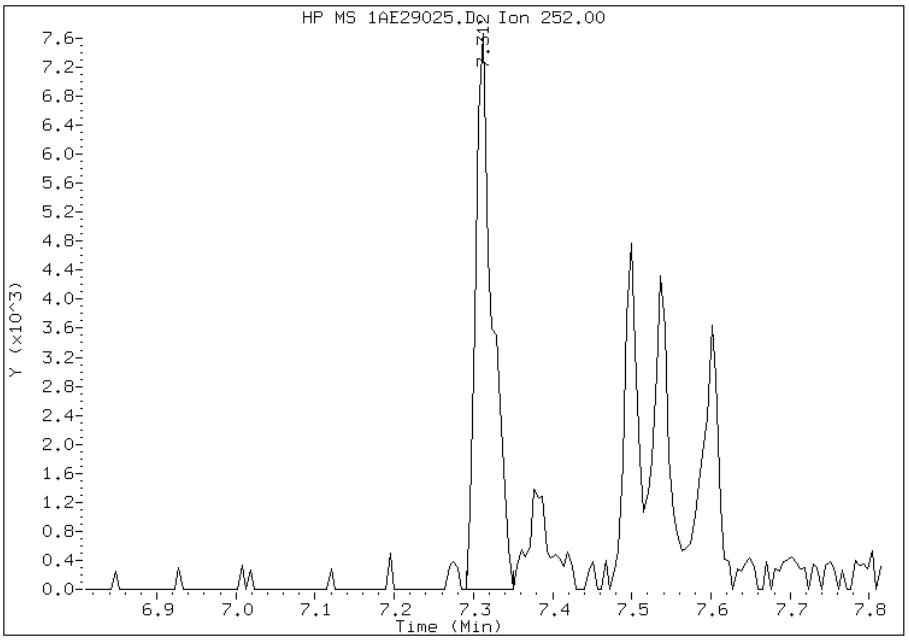
Processing Integration Results

RT: 7.31

Response: 11272

Amount: 1

Conc: 258



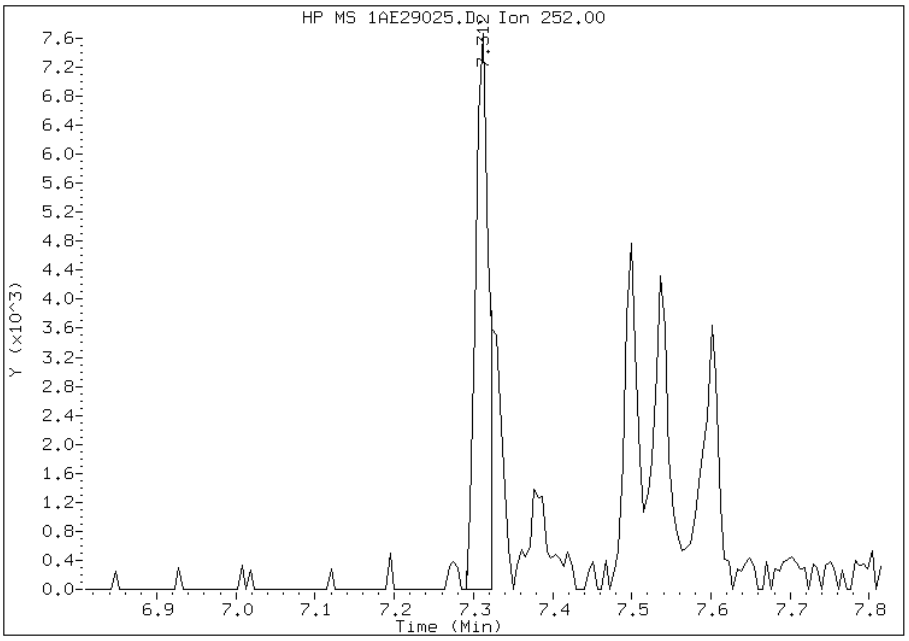
Manual Integration Results

RT: 7.31

Response: 8707

Amount: 1

Conc: 214



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:47
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29025.D
Inj. Date and Time: 29-MAY-2013 20:14
Instrument ID: BSMA5973.i
Client ID: CV1189B-CS-SP
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/04/2013

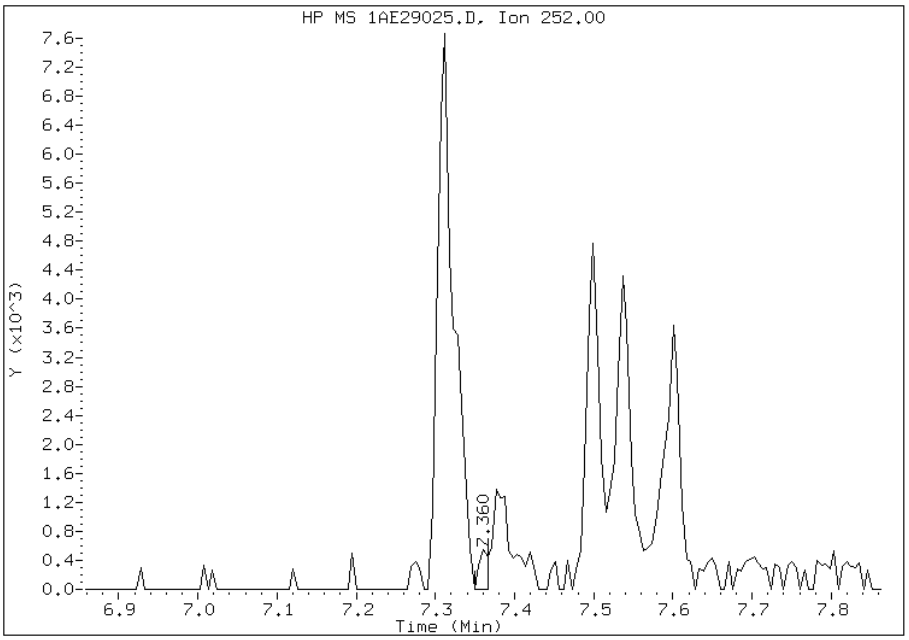
Processing Integration Results

RT: 7.36

Response: 422

Amount: 0

Conc: 7



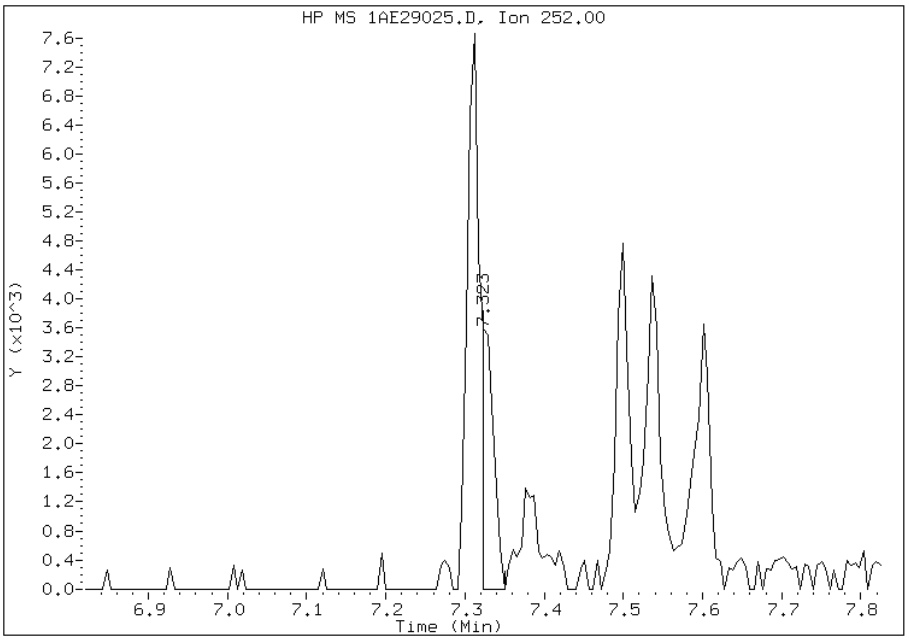
Manual Integration Results

RT: 7.32

Response: 3727

Amount: 0

Conc: 59



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29025.D
Inj. Date and Time: 29-MAY-2013 20:14
Instrument ID: BSMA5973.i
Client ID: CV1189B-CS-SP
Compound: 12 Phenanthrene
CAS #: 85-01-8
Report Date: 06/04/2013

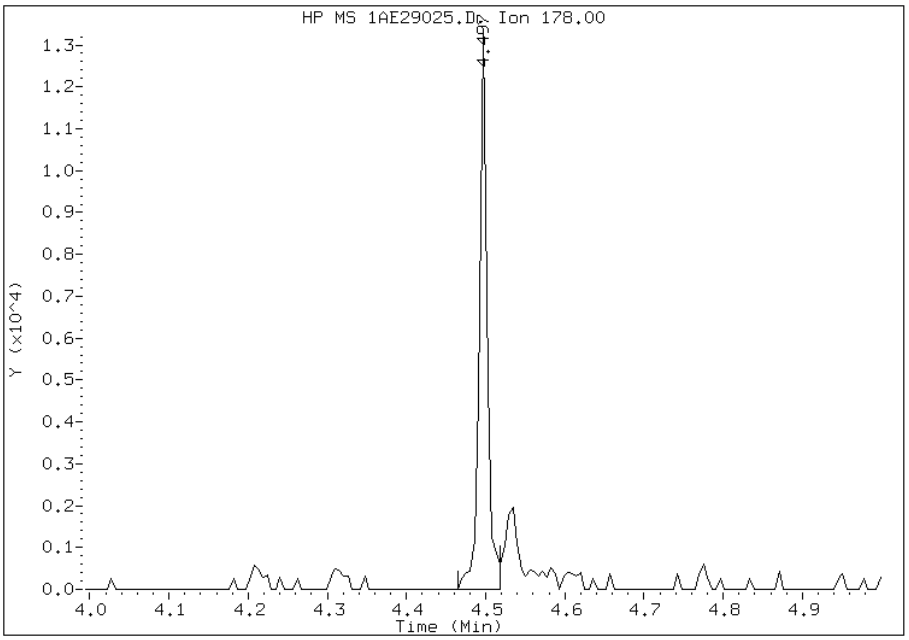
Processing Integration Results

RT: 4.50

Response: 8896

Amount: 0

Conc: 145



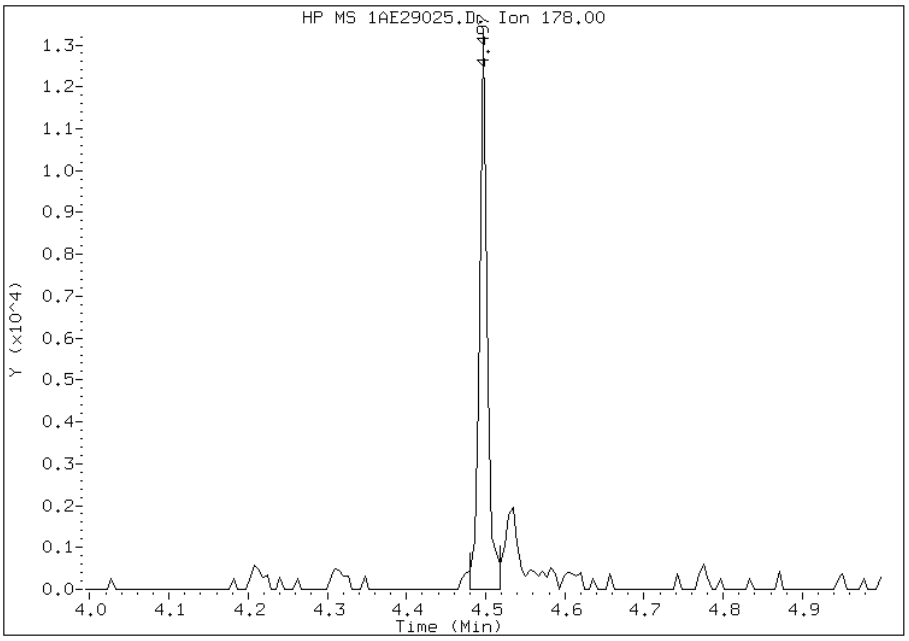
Manual Integration Results

RT: 4.50

Response: 8685

Amount: 0

Conc: 141



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 11:06
Manual Integration Reason: Baseline Event

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

Lab Name: TestAmerica Tampa Job No.: 680-90622-2 Analy Batch No.: 137743

SDG No.: 68090622-2

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

Calibration Start Date: 05/23/2013 12:51 Calibration End Date: 05/23/2013 14:22 Calibration ID: 2980

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137743/3	1AE23003.D
Level 2	IC 660-137743/4	1AE23004.D
Level 3	IC 660-137743/5	1AE23005.D
Level 4	IC 660-137743/6	1AE23006.D
Level 5	ICIS 660-137743/7	1AE23007.D
Level 6	IC 660-137743/8	1AE23008.D
Level 7	IC 660-137743/9	1AE23009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.8319 0.8962	0.9157 0.9264	0.9234	0.9310	0.9148	Ave		0.9056			0.0000	3.8		15.0			
2-Methylnaphthalene	0.3158 0.4577	0.3922 0.4963	0.4215	0.4536	0.4814	Ave		0.4312			0.0000	14.3		15.0			
1-Methylnaphthalene	0.5602 0.5822	0.7181 0.6149	0.6793	0.6269	0.6272	Ave		0.6298			0.0000	8.6		15.0			
1,1'-Biphenyl	0.5259 0.7171	0.7312 0.7740	0.7012	0.7198	0.7556	Ave		0.7036				11.7					
Acenaphthylene	1.6577 1.6980	1.7503 1.7645	1.6569	1.8622	1.8617	Ave		1.7502			0.0000	5.0		15.0			
Acenaphthene	0.9536 0.9129	0.9294 1.0016	0.8826	0.9143	0.9537	Ave		0.9354			0.0000	4.1		15.0			
Dibenzofuran	1.2088 1.4088	1.4810 1.5785	1.4012	1.4479	1.4987	Ave		1.4321				8.1					
Fluorene	0.9500 1.0728	1.0708 1.1617	1.0622	1.1140	1.1701	Ave		1.0859			0.0000	6.8		15.0			
Phenanthrene	0.9504 0.9051	0.9041 0.9410	0.8412	0.8734	0.8910	Ave		0.9009			0.0000	4.2		15.0			
Anthracene	0.9343 0.9327	0.9716 0.9673	0.8920	0.9489	0.9503	Ave		0.9424			0.0000	2.8		15.0			
Fluoranthene	1.0979 1.2580	1.0659 1.1810	1.0397	1.0913	1.1397	Ave		1.1248			0.0000	6.7		15.0			
Pyrene	1.1882 1.2159	1.2507 1.2254	1.1273	1.1901	1.2396	Ave		1.2053			0.0000	3.4		15.0			
Benzo[a]anthracene	1.5740 1.1307	1.1155 1.1277	1.0247	1.1508	1.1016	None	-0.001	1.1190							0.9993		
Chrysene	1.0278 1.0292	1.1335 1.1101	1.0834	1.0015	1.0890	Ave		1.0678			0.0000	4.6		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.: 680-90622-2 Analy Batch No.: 137743

SDG No.: 68090622-2

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

Calibration Start Date: 05/23/2013 12:51 Calibration End Date: 05/23/2013 14:22 Calibration ID: 2980

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	0.6658 1.2200	0.8048 1.2739	0.8478	1.0966	1.0386	Lin1	0.0048	1.2050							0.9909		
Benzo[k]fluoranthene	1.2670 1.3773	1.3096 1.3114	1.4205	1.2375	1.3926	Ave		1.3308			0.0000	5.1		15.0			
Benzo[a]pyrene	0.8001 1.0897	0.8707 1.0993	0.9554	1.0013	1.0138	Ave		0.9757			0.0000	11.3		15.0			
Indeno[1,2,3-cd]pyrene	0.8565 1.0198	0.6317 1.0336	0.7715	0.8096	0.8827	Lin1	0.0036	0.9861							0.9914		
Dibenz(a,h)anthracene	0.6372 0.9828	0.7229 1.0235	0.7912	0.8277	0.8776	None	0.0034	0.9663							0.9934		
Benzo[g,h,i]perylene	0.7024 0.9539	0.8334 0.9472	0.8307	0.8205	0.9198	Ave		0.8583			0.0000	10.4		15.0			
o-Terphenyl	0.5674 0.5800	0.5638 0.6041	0.5642	0.5876	0.5826	Ave		0.5785			0.0000	2.5		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.: 680-90622-2 Analy Batch No.: 137743

SDG No.: 68090622-2

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

Calibration Start Date: 05/23/2013 12:51 Calibration End Date: 05/23/2013 14:22 Calibration ID: 2980

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137743/3	1AE23003.D
Level 2	IC 660-137743/4	1AE23004.D
Level 3	IC 660-137743/5	1AE23005.D
Level 4	IC 660-137743/6	1AE23006.D
Level 5	ICIS 660-137743/7	1AE23007.D
Level 6	IC 660-137743/8	1AE23008.D
Level 7	IC 660-137743/9	1AE23009.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	4877 771759	27756 1280321	142169	292802	560603	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	1851 394152	11887 685933	64889	142672	294996	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	3284 501360	21767 849768	104592	197150	384376	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1,1'-Biphenyl	NPT	Ave	3083 617501	22163 1069731	107964	226391	463010	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	5573 808511	29387 1340229	146419	319831	630726	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	3206 434674	15605 760793	77989	157029	323095	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenzofuran	ANT	Ave	4064 670801	24866 1198945	123824	248677	507750	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	3194 510806	17978 882399	93865	191330	396396	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	5425 765052	26591 1282695	125719	269043	546502	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	5333 788422	28575 1318603	133318	292299	582875	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	6267 1063362	31350 1609879	155397	336165	699074	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	6289 1055562	34460 1740175	161372	343849	697125	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	None	8331 981619	30734 1601449	146679	332493	619479	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	5440 893518	31230 1576406	155092	289372	612439	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Lin1	3327 882593	20499 1598808	104550	287554	525140	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.: 680-90622-2 Analy Batch No.: 137743

SDG No.: 68090622-2

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

Calibration Start Date: 05/23/2013 12:51 Calibration End Date: 05/23/2013 14:22 Calibration ID: 2980

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	6331 996400	33354 1645861	175177	324503	704150	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Ave	3998 788336	22176 1379638	117818	262575	512618	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Lin1	4280 737791	16088 1297265	95139	212302	446337	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	None	3184 710982	18412 1284475	97574	217038	443752	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	3510 690132	21227 1188762	102445	215153	465107	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	3239 490290	16581 823523	84325	181006	357347	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
None = No Calib Curve

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23003.D
Lab Smp Id: IC1
Inj Date : 23-MAY-2013 12:51
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC1
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 15:24 BSMA5973.i Quant Type: ISTD
Cal Date : 23-MAY-2013 12:51 Cal File: 1AE23003.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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.525	2.527	(1.000)	1172430	40.0000	
*	7 Acenaphthene-d10	164	3.551	3.548	(1.000)	672388	40.0000	
*	11 Phenanthrene-d10	188	4.496	4.498	(1.000)	1141618	40.0000	
$	15 o-Terphenyl	230	4.790	4.792	(1.065)	3239	0.20000	0.1961
*	19 Chrysene-d12	240	6.510	6.512	(1.000)	1058586	40.0000	
*	24 Perylene-d12	264	7.627	7.602	(1.000)	999377	40.0000	
	2 Naphthalene	128	2.536	2.538	(1.004)	4877	0.20000	0.1837
	3 2-Methylnaphthalene	141	2.942	2.938	(1.165)	1851	0.20000	0.1464
	4 1-Methylnaphthalene	142	2.995	2.992	(1.186)	3284	0.20000	0.1778
	5 1,1'-Biphenyl	154	3.220	3.216	(1.275)	3083	0.20000	0.1495
	6 Acenaphthylene	152	3.460	3.462	(0.974)	5573	0.20000	0.1894(M)
	8 Acenaphthene	154	3.567	3.569	(1.004)	3206	0.20000	0.2038
	9 Dibenzofuran	168	3.674	3.670	(1.035)	4064	0.20000	0.1688
	10 Fluorene	166	3.882	3.879	(1.093)	3194	0.20000	0.1749(T)
	12 Phenanthrene	178	4.512	4.509	(1.004)	5425	0.20000	0.2109
	13 Anthracene	178	4.544	4.546	(1.011)	5333	0.20000	0.1982(M)
	16 Fluoranthene	202	5.372	5.375	(1.195)	6267	0.20000	0.1952(M)
	17 Pyrene	202	5.538	5.540	(0.851)	6289	0.20000	0.1971(M)
	18 Benzo(a)anthracene	228	6.510	6.502	(1.000)	8331	0.20000	0.2679
	20 Chrysene	228	6.526	6.534	(1.002)	5440	0.20000	0.1925
	21 Benzo(b)fluoranthene	252	7.338	7.319	(0.962)	3327	0.20000	0.1341
	22 Benzo(k)fluoranthene	252	7.360	7.346	(0.965)	6331	0.20000	0.1904(M)
	23 Benzo(a)pyrene	252	7.573	7.549	(0.993)	3998	0.20000	0.1639
	25 Indeno(1,2,3-cd)pyrene	276	8.385	8.355	(1.099)	4280	0.20000	0.1996(M)
	26 Dibenzo(a,h)anthracene	278	8.412	8.377	(1.103)	3184	0.20000	0.1521(T)
	27 Benzo(g,h,i)perylene	276	8.594	8.569	(1.127)	3510	0.20000	0.1636(M)

QC Flag Legend

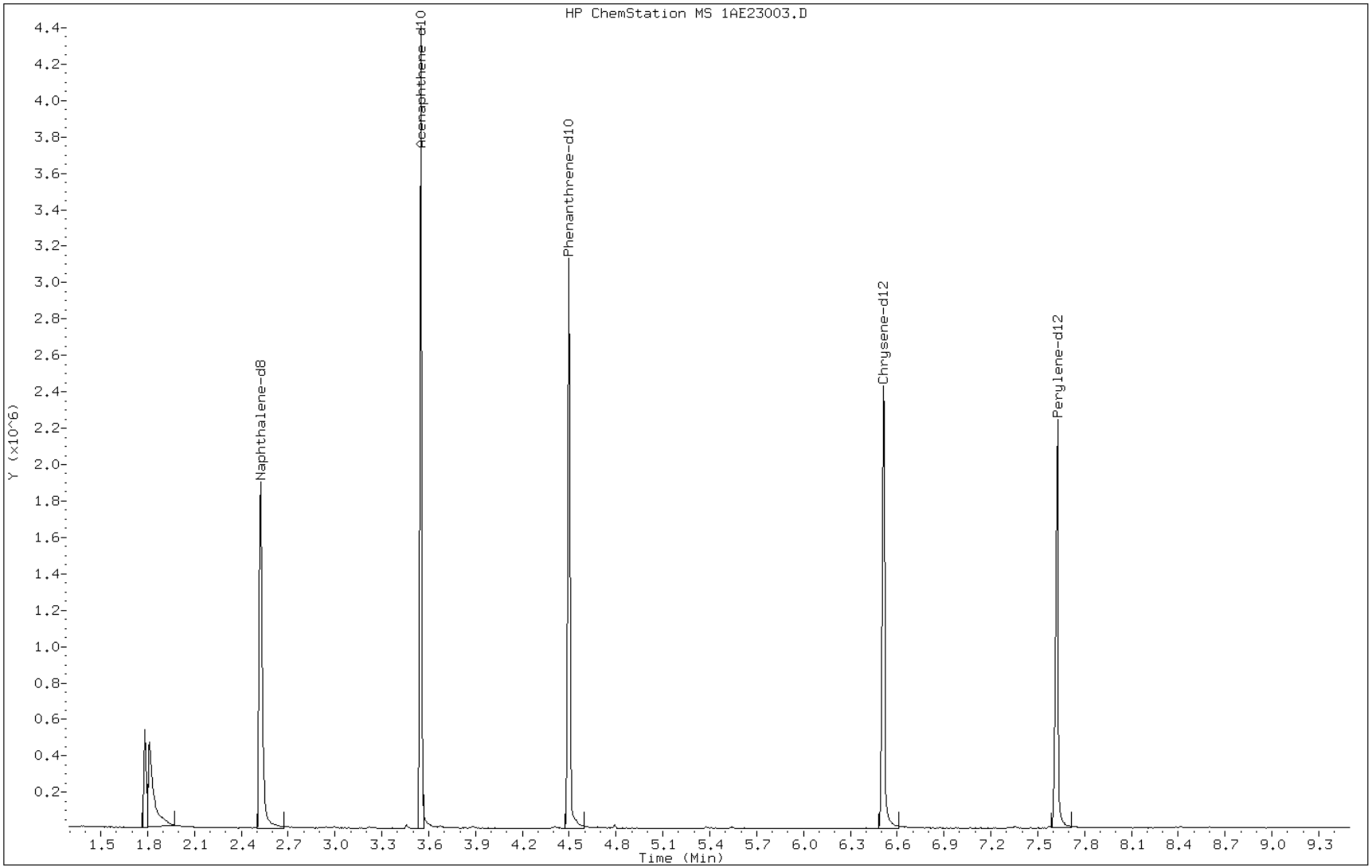
T - Target compound detected outside RT window.
M - Compound response manually integrated.

Data File: 1AE23003.D

Date: 23-MAY-2013 12:51

Client ID: Instrument: BSMA5973.i

Sample Info: IC1 Operator: SCC



Manual Integration Report

Data File: 1AE23003.D
Inj. Date and Time: 23-MAY-2013 12:51
Instrument ID: BSMA5973.i
Client ID:
Compound: 6 Acenaphthylene
CAS #: 208-96-8
Report Date: 05/23/2013

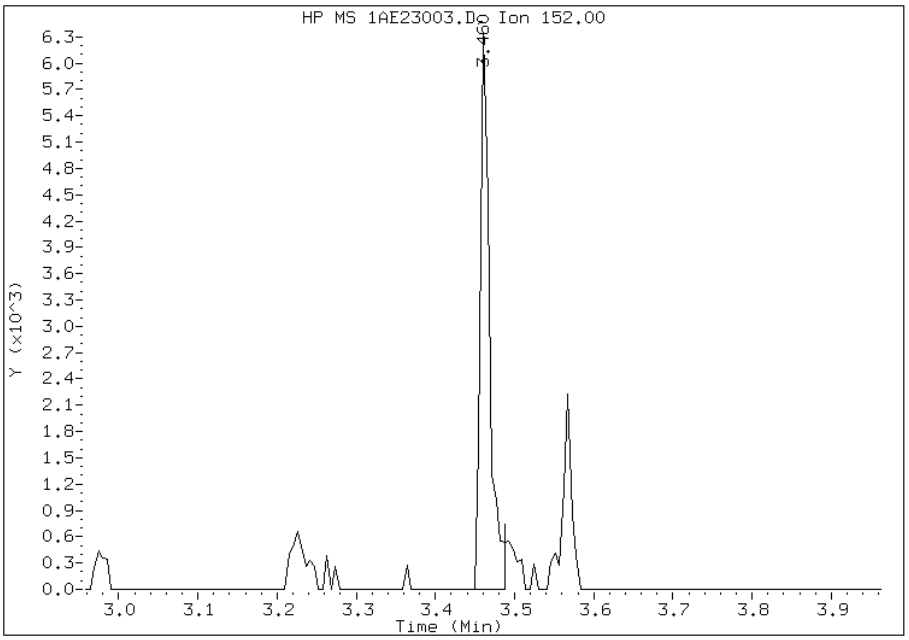
Processing Integration Results

RT: 3.46

Response: 5070

Amount: 0

Conc: 0



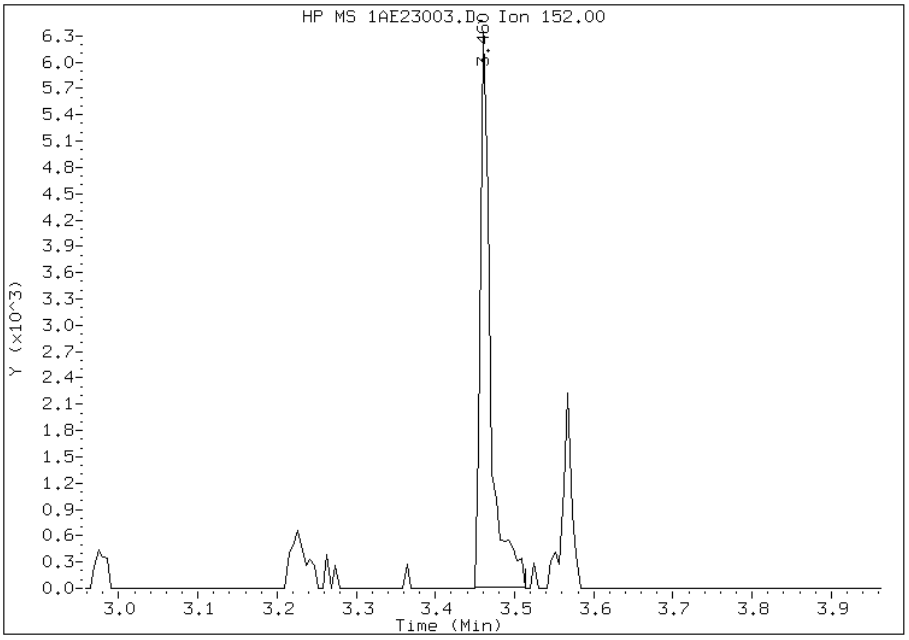
Manual Integration Results

RT: 3.46

Response: 5573

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23003.D
Inj. Date and Time: 23-MAY-2013 12:51
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Anthracene
CAS #: 120-12-7
Report Date: 05/23/2013

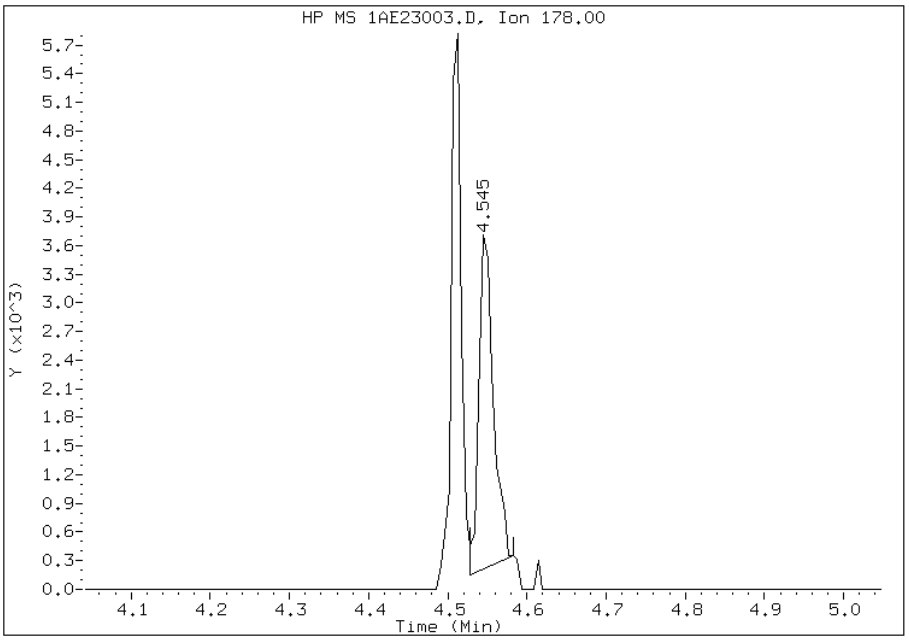
Processing Integration Results

RT: 4.54

Response: 4355

Amount: 0

Conc: 0



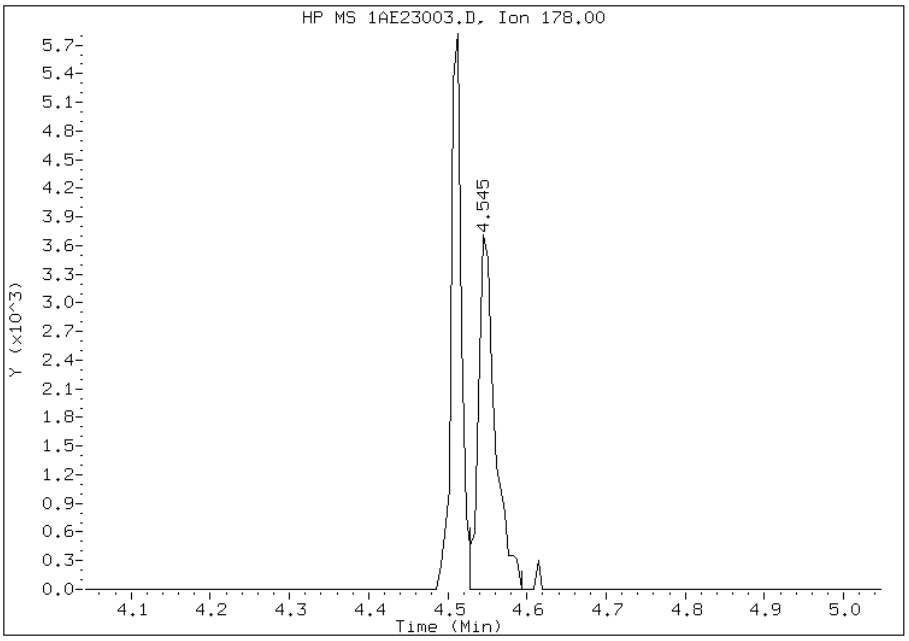
Manual Integration Results

RT: 4.54

Response: 5333

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23003.D
Inj. Date and Time: 23-MAY-2013 12:51
Instrument ID: BSMA5973.i
Client ID:
Compound: 16 Fluoranthene
CAS #: 206-44-0
Report Date: 05/23/2013

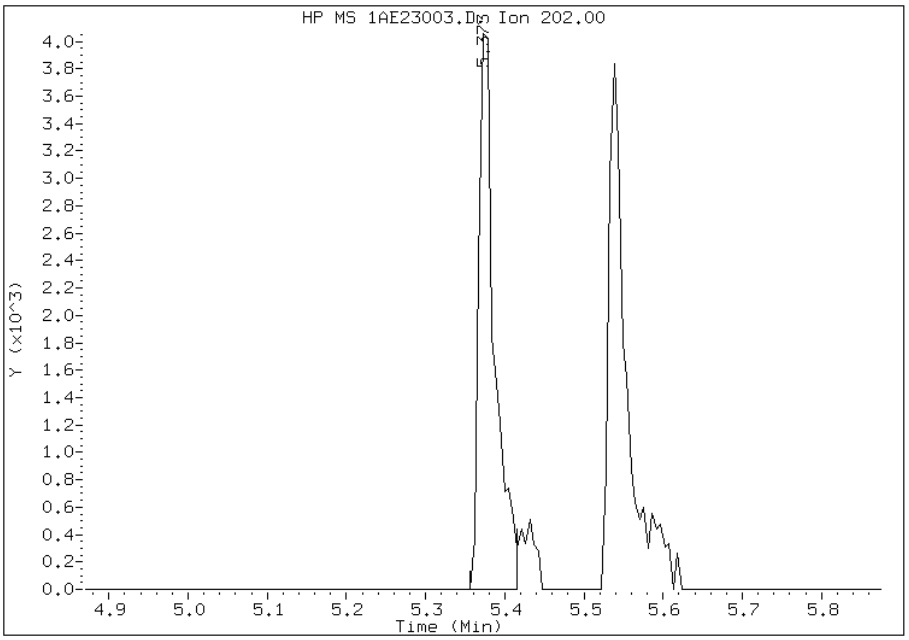
Processing Integration Results

RT: 5.37

Response: 5662

Amount: 0

Conc: 0



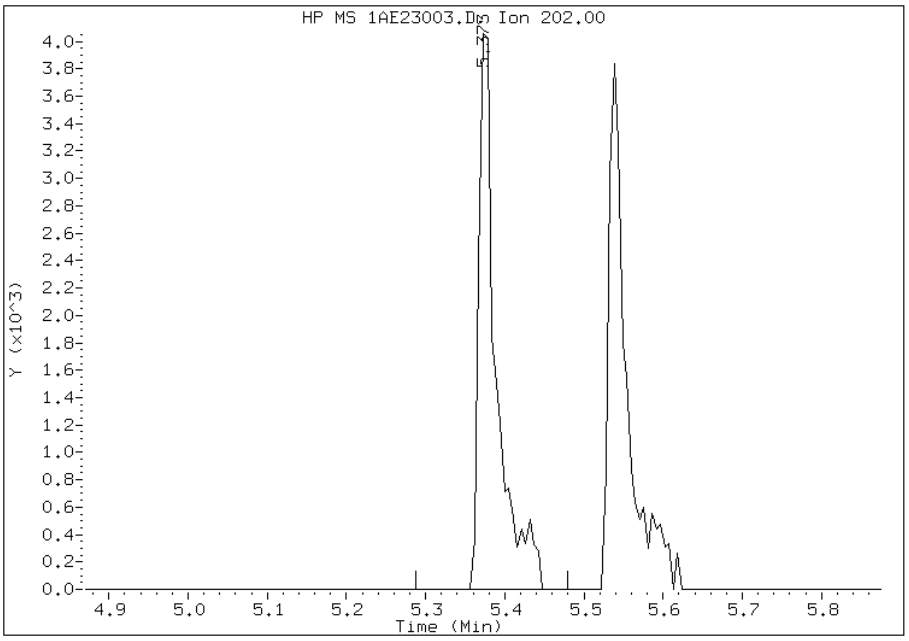
Manual Integration Results

RT: 5.37

Response: 6267

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23003.D
Inj. Date and Time: 23-MAY-2013 12:51
Instrument ID: BSMA5973.i
Client ID:
Compound: 17 Pyrene
CAS #: 129-00-0
Report Date: 05/23/2013

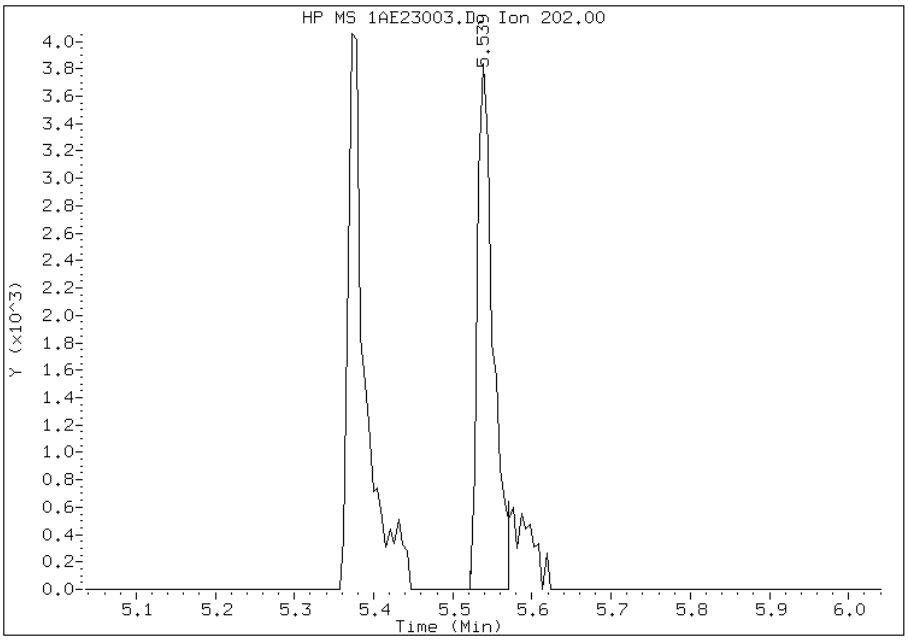
Processing Integration Results

RT: 5.54

Response: 5241

Amount: 0

Conc: 0



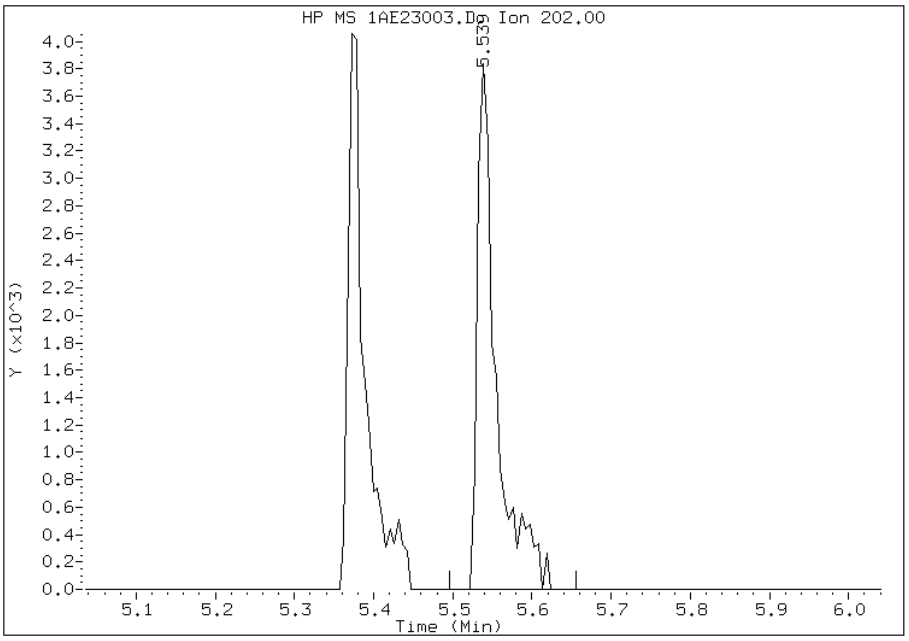
Manual Integration Results

RT: 5.54

Response: 6289

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23003.D
Inj. Date and Time: 23-MAY-2013 12:51
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/23/2013

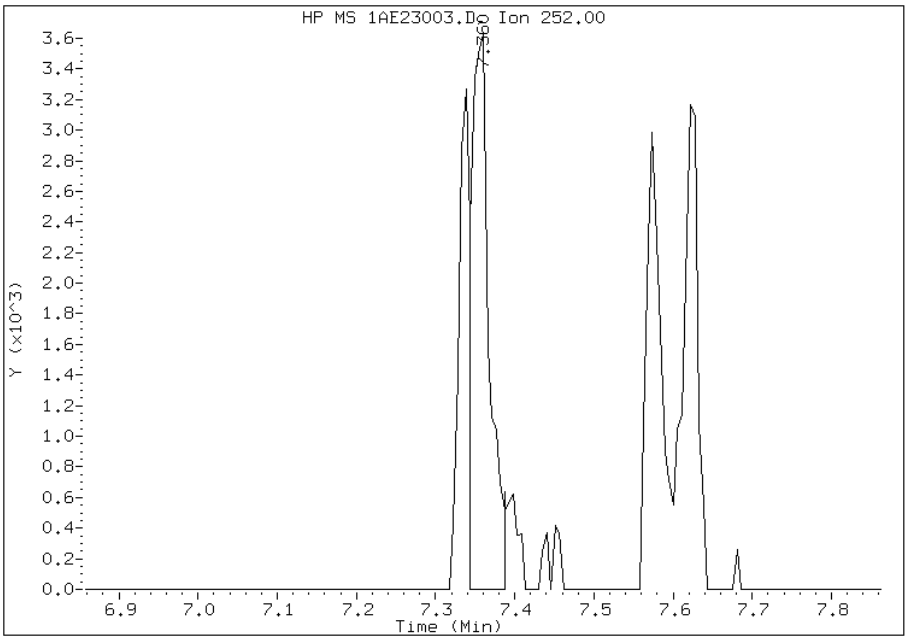
Processing Integration Results

RT: 7.36

Response: 5716

Amount: 0

Conc: 0



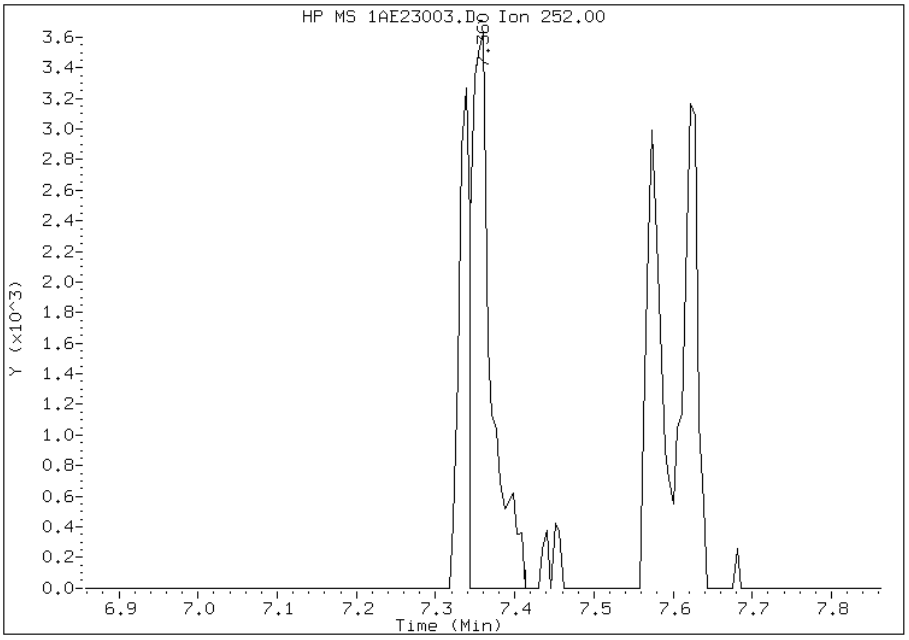
Manual Integration Results

RT: 7.36

Response: 6331

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23003.D
Inj. Date and Time: 23-MAY-2013 12:51
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

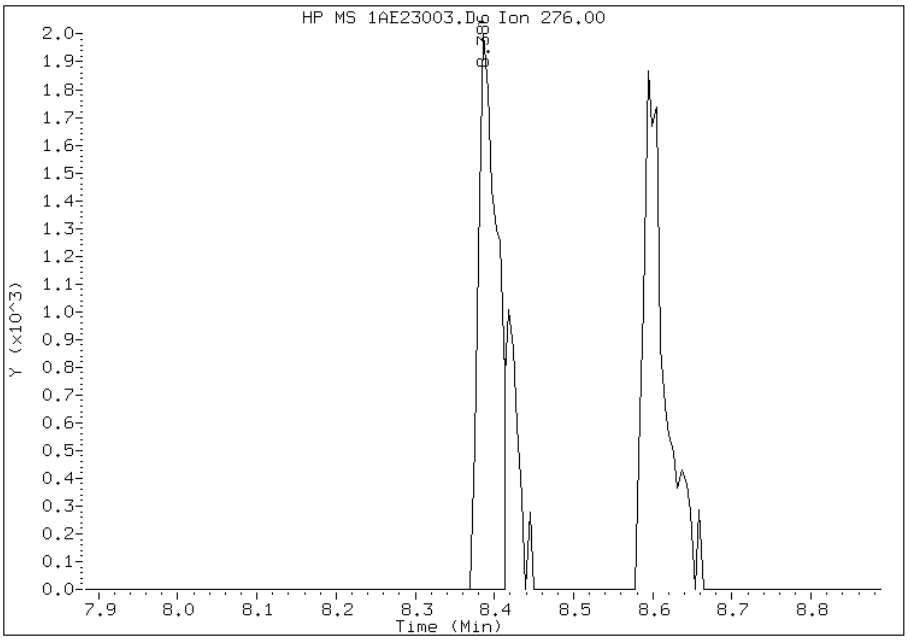
Processing Integration Results

RT: 8.39

Response: 3294

Amount: 0

Conc: 0



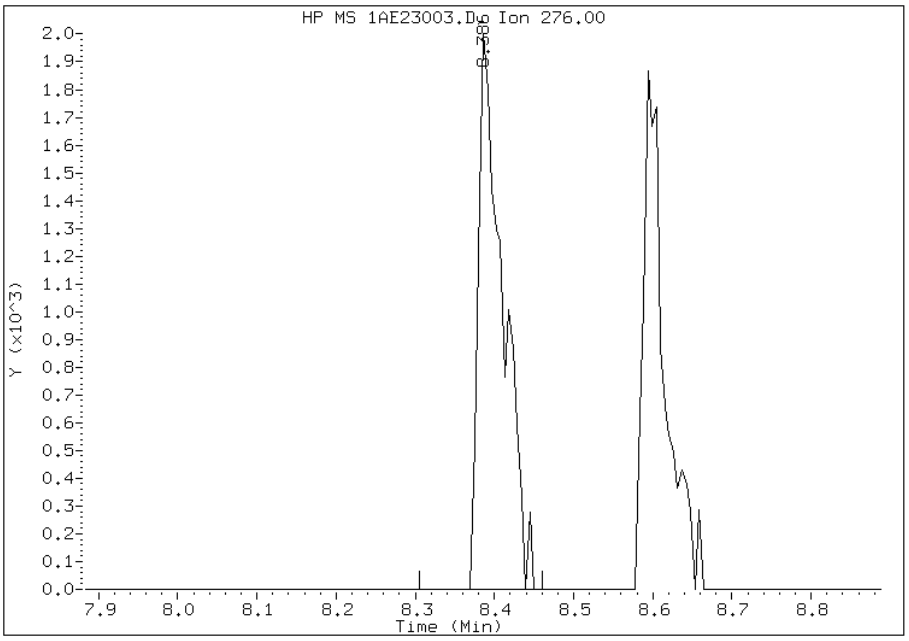
Manual Integration Results

RT: 8.39

Response: 4280

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23003.D
Inj. Date and Time: 23-MAY-2013 12:51
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/23/2013

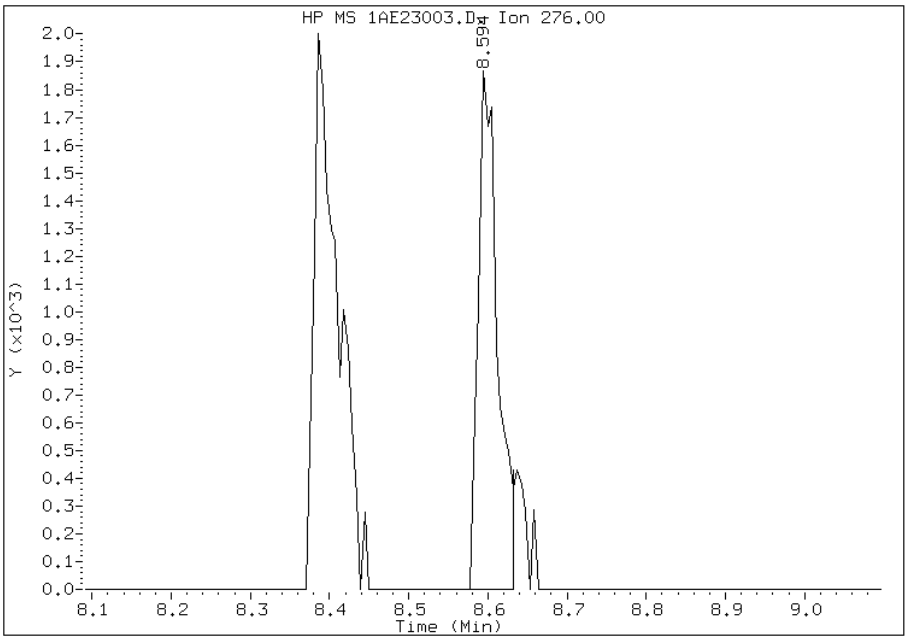
Processing Integration Results

RT: 8.59

Response: 3162

Amount: 0

Conc: 0



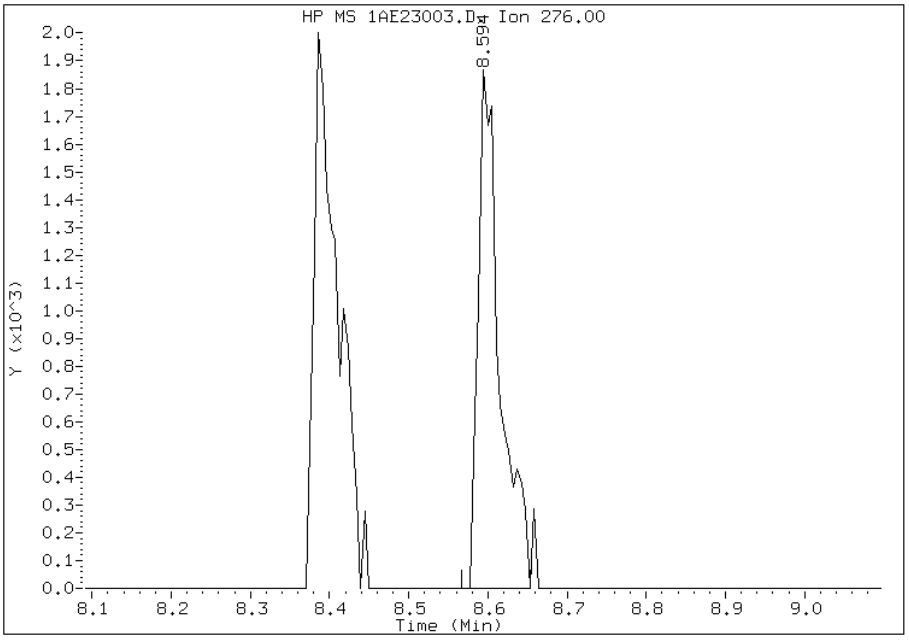
Manual Integration Results

RT: 8.59

Response: 3510

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:24
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23004.D
Lab Smp Id: IC2
Inj Date : 23-MAY-2013 13:06
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC2
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 15:24 BSMA5973.i Quant Type: ISTD
Cal Date : 23-MAY-2013 12:51 Cal File: 1AE23003.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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.523	2.527	(1.000)	1212395	40.0000	
*	7 Acenaphthene-d10	164	3.548	3.548	(1.000)	671595	40.0000	
*	11 Phenanthrene-d10	188	4.494	4.498	(1.000)	1176446	40.0000	
$	15 o-Terphenyl	230	4.788	4.792	(1.065)	16581	1.00000	0.9744
*	19 Chrysene-d12	240	6.508	6.512	(1.000)	1102097	40.0000	
*	24 Perylene-d12	264	7.598	7.602	(1.000)	1018779	40.0000	
	2 Naphthalene	128	2.533	2.538	(1.004)	27756	1.00000	1.0111(M)
	3 2-Methylnaphthalene	141	2.939	2.938	(1.165)	11887	1.00000	0.9094
	4 1-Methylnaphthalene	142	2.993	2.992	(1.186)	21767	1.00000	1.1402(M)
	5 1,1'-Biphenyl	154	3.217	3.216	(1.275)	22163	1.00000	1.0393(M)
	6 Acenaphthylene	152	3.457	3.462	(0.974)	29387	1.00000	1.0000(M)
	8 Acenaphthene	154	3.564	3.569	(1.004)	15605	1.00000	0.9935
	9 Dibenzofuran	168	3.671	3.670	(1.035)	24866	1.00000	1.0341(M)
	10 Fluorene	166	3.879	3.879	(1.093)	17978	1.00000	0.9860(M)
	12 Phenanthrene	178	4.504	4.509	(1.002)	26591	1.00000	1.0035(M)
	13 Anthracene	178	4.542	4.546	(1.011)	28575	1.00000	1.0309(M)
	16 Fluoranthene	202	5.370	5.375	(1.195)	31350	1.00000	0.9476(M)
	17 Pyrene	202	5.535	5.540	(0.851)	34460	1.00000	1.0376(M)
	18 Benzo(a)anthracene	228	6.502	6.502	(0.999)	30734	1.00000	0.9493
	20 Chrysene	228	6.524	6.534	(1.002)	31230	1.00000	1.0615(M)
	21 Benzo(b)fluoranthene	252	7.314	7.319	(0.963)	20499	1.00000	0.8109
	22 Benzo(k)fluoranthene	252	7.336	7.346	(0.966)	33354	1.00000	0.9840(M)
	23 Benzo(a)pyrene	252	7.544	7.549	(0.993)	22176	1.00000	0.8923
	25 Indeno(1,2,3-cd)pyrene	276	8.345	8.355	(1.098)	16088	1.00000	0.7362(M)
	26 Dibenzo(a,h)anthracene	278	8.367	8.377	(1.101)	18412	1.00000	0.8631(M)
	27 Benzo(g,h,i)perylene	276	8.554	8.569	(1.126)	21227	1.00000	0.9710(M)

QC Flag Legend

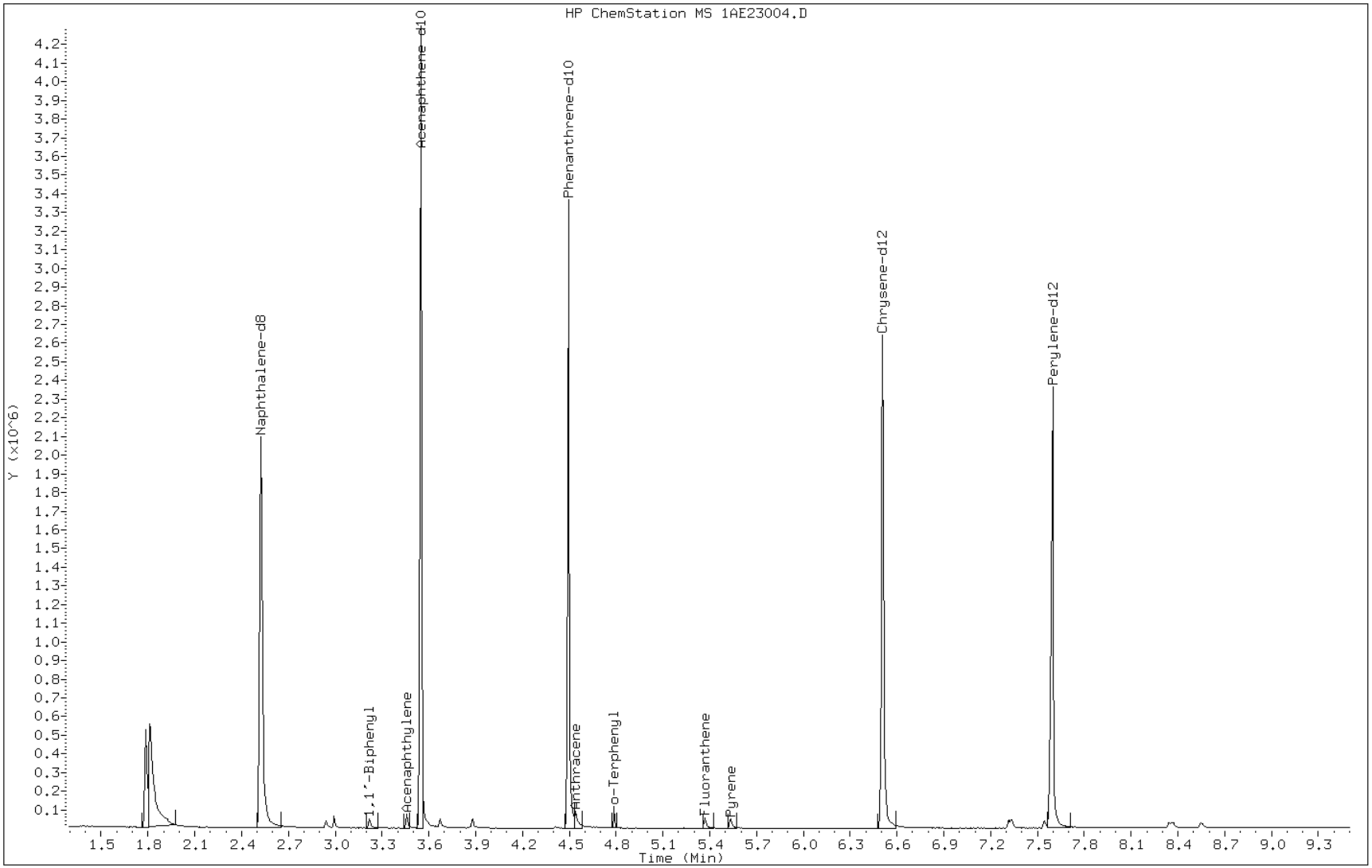
M - Compound response manually integrated.

Data File: 1AE23004.D

Date: 23-MAY-2013 13:06

Client ID: Instrument: BSMA5973.i

Sample Info: IC2 Operator: SCC



Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/23/2013

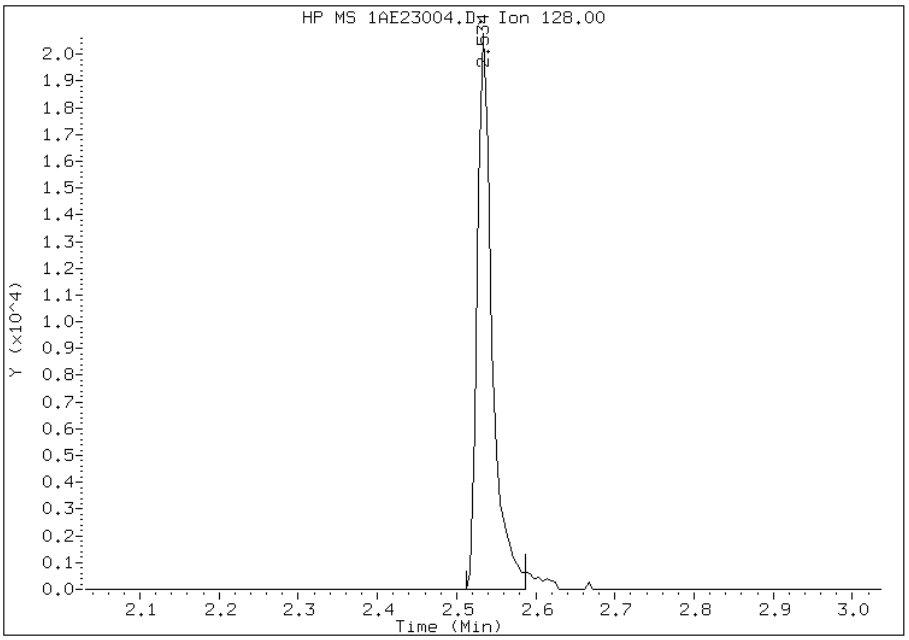
Processing Integration Results

RT: 2.53

Response: 26870

Amount: 1

Conc: 1



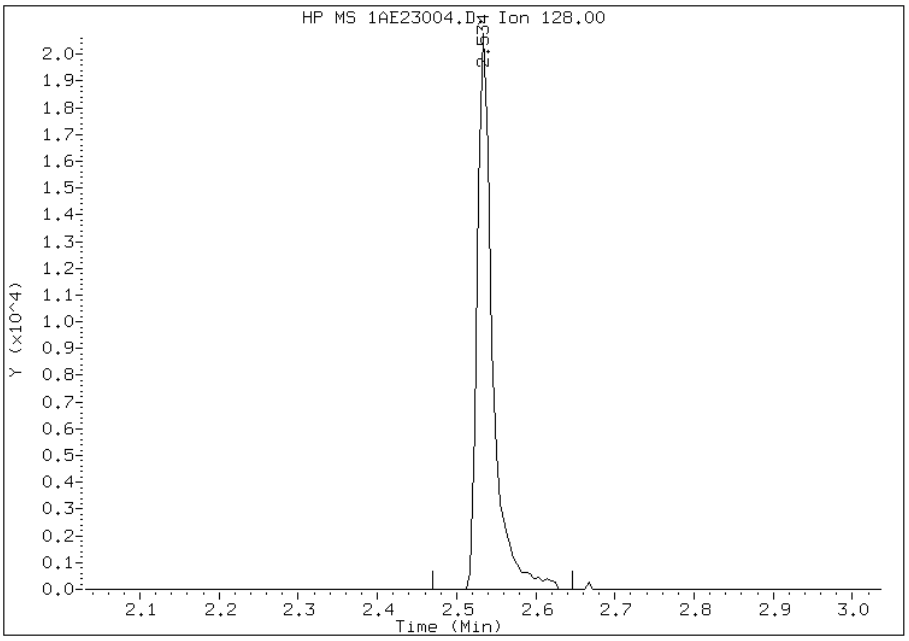
Manual Integration Results

RT: 2.53

Response: 27756

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 05/23/2013

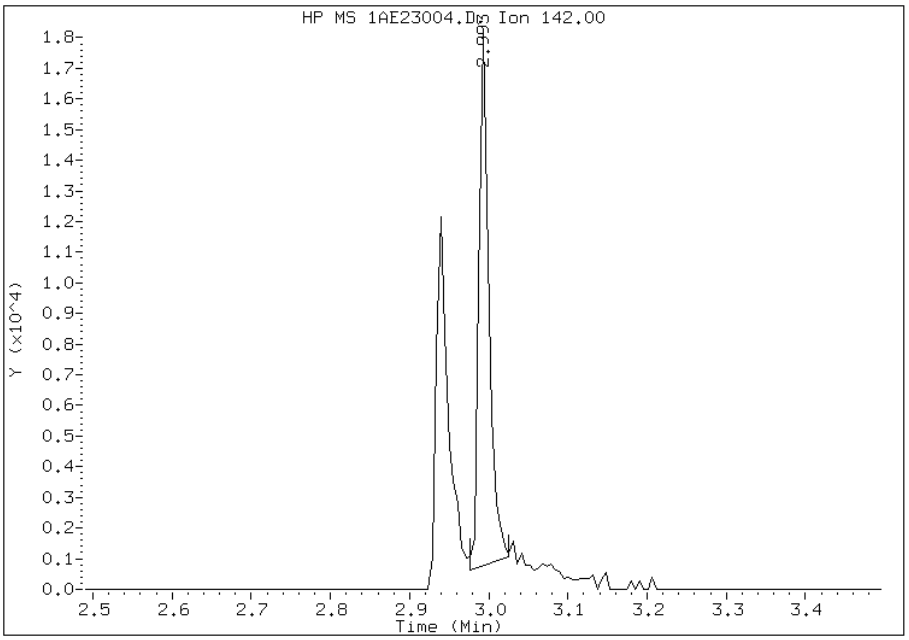
Processing Integration Results

RT: 2.99

Response: 14888

Amount: 1

Conc: 1



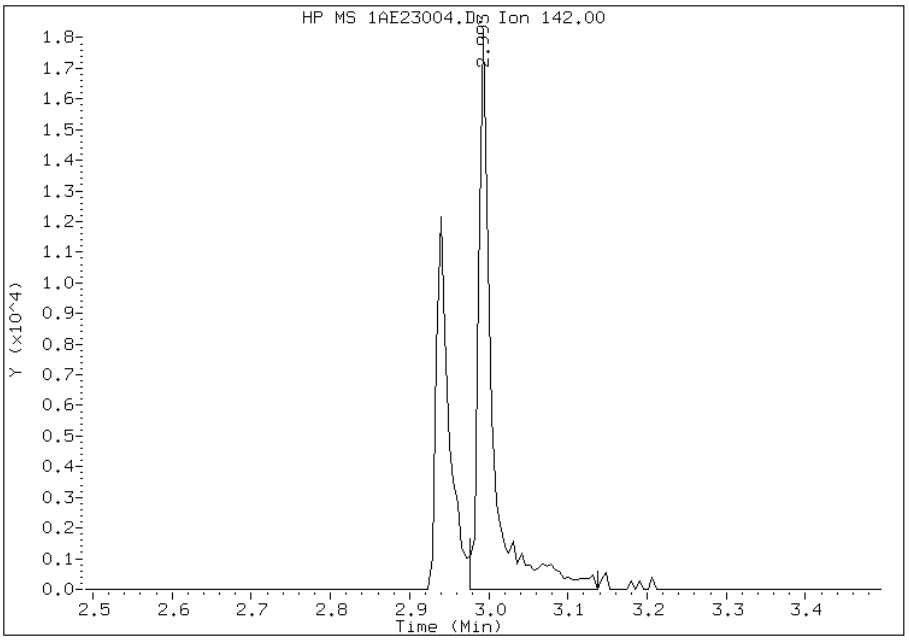
Manual Integration Results

RT: 2.99

Response: 21767

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 5 1,1'-Biphenyl
CAS #: 92-52-4
Report Date: 05/23/2013

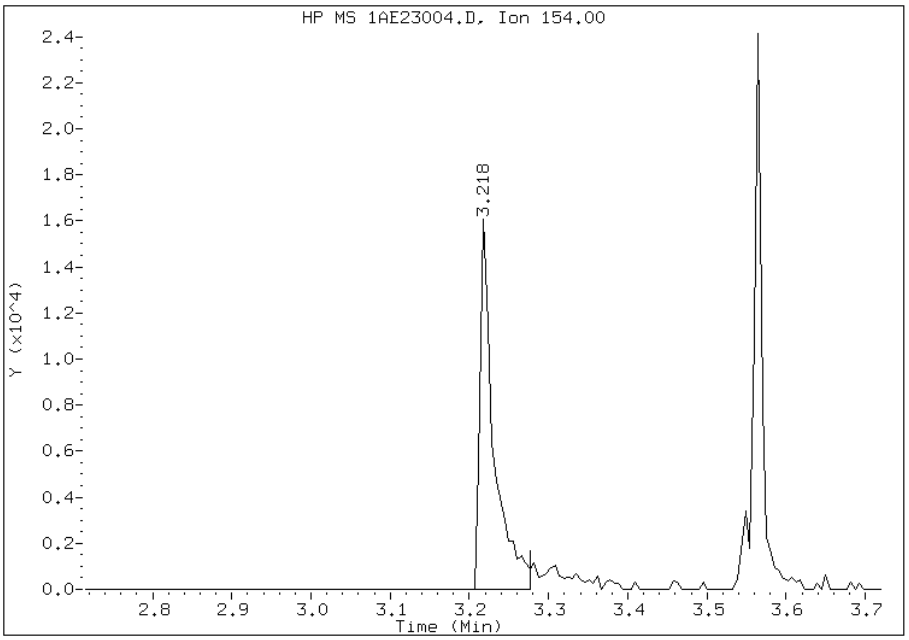
Processing Integration Results

RT: 3.22

Response: 19272

Amount: 1

Conc: 1



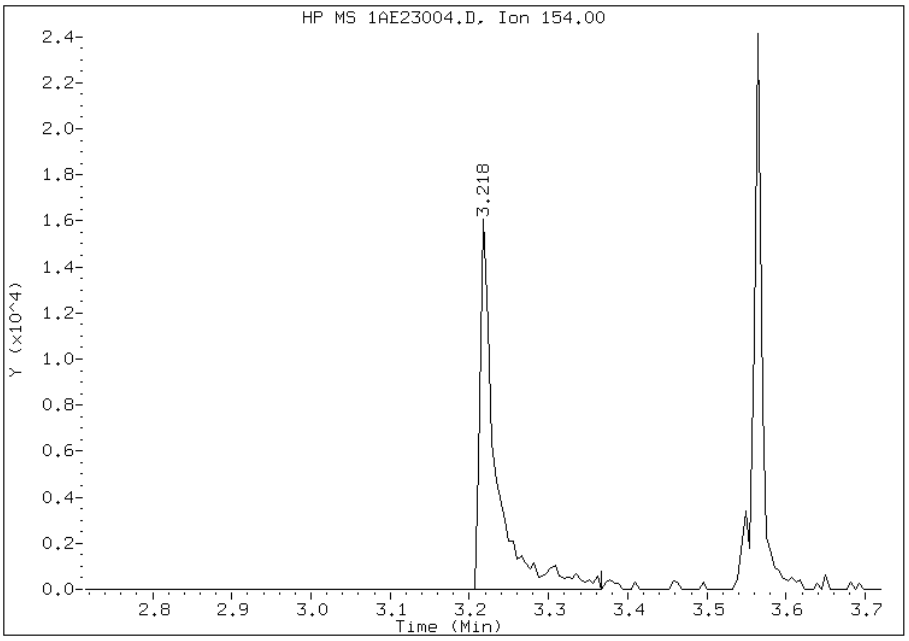
Manual Integration Results

RT: 3.22

Response: 22163

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 6 Acenaphthylene
CAS #: 208-96-8
Report Date: 05/23/2013

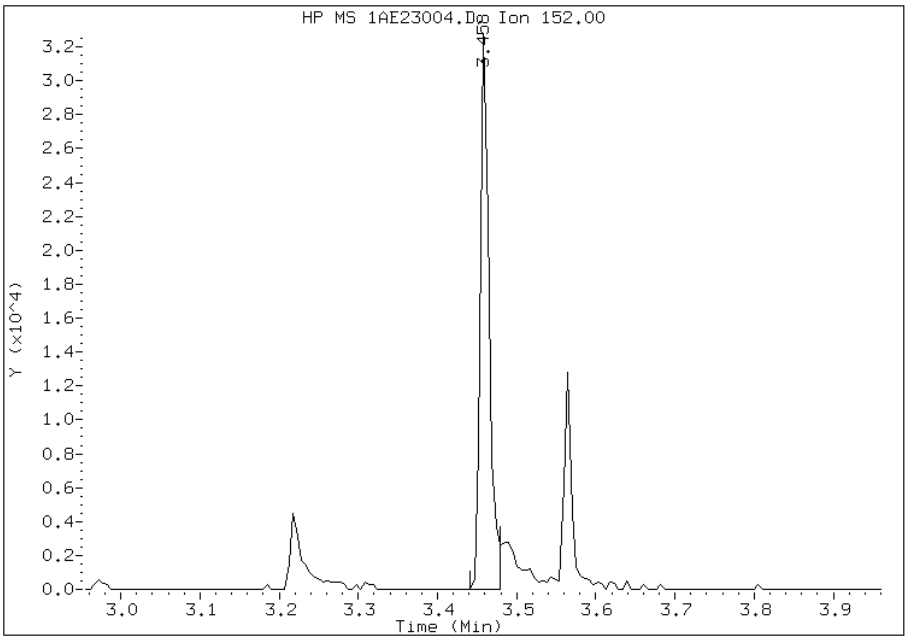
Processing Integration Results

RT: 3.46

Response: 24809

Amount: 1

Conc: 1



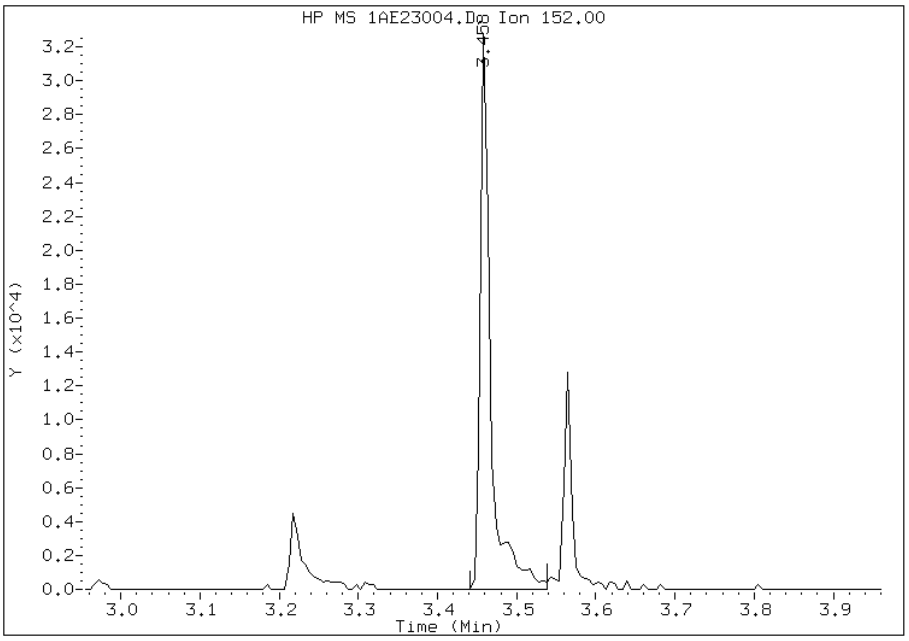
Manual Integration Results

RT: 3.46

Response: 29387

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 9 Dibenzofuran
CAS #: 132-64-9
Report Date: 05/23/2013

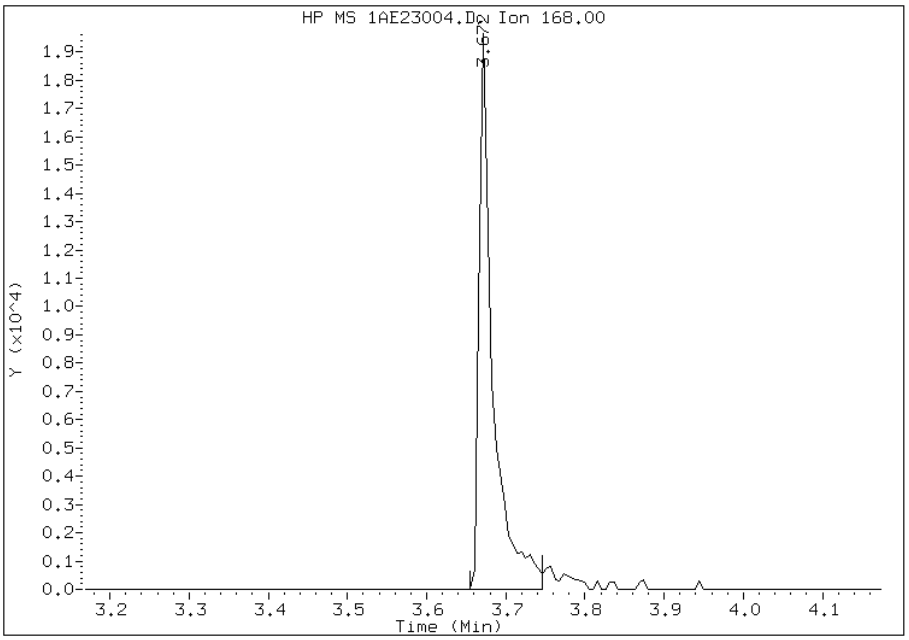
Processing Integration Results

RT: 3.67

Response: 23376

Amount: 1

Conc: 1



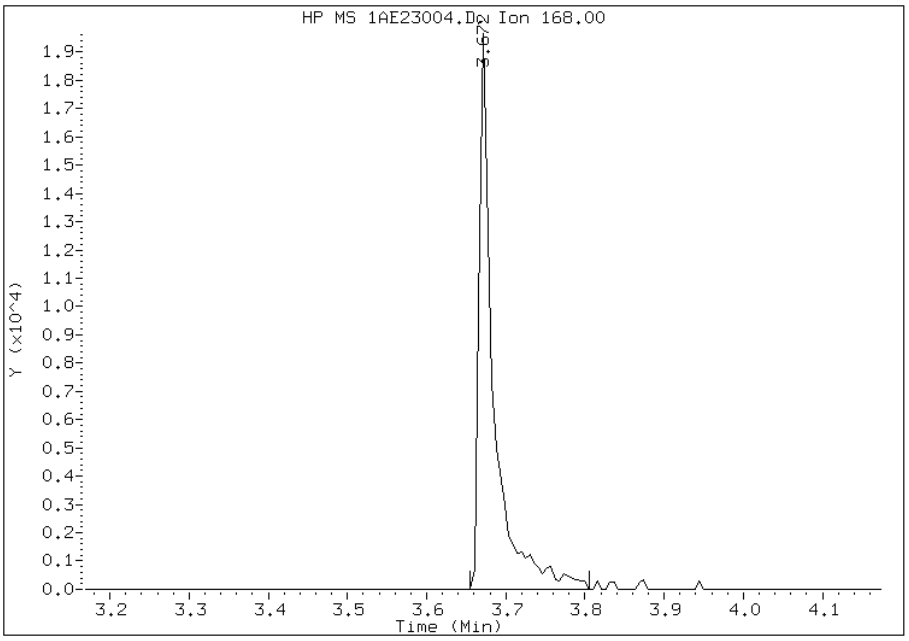
Manual Integration Results

RT: 3.67

Response: 24866

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 10 Fluorene
CAS #: 86-73-7
Report Date: 05/23/2013

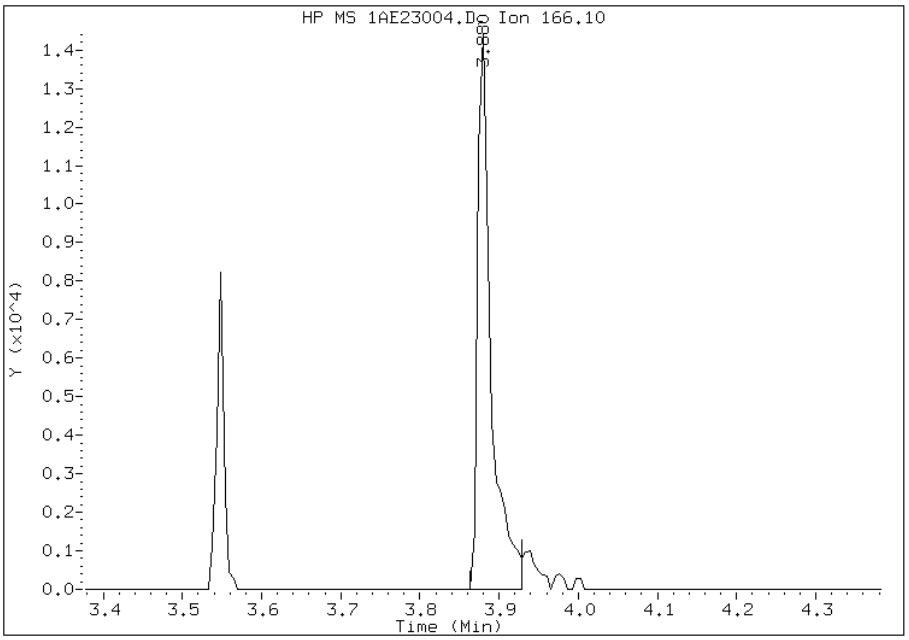
Processing Integration Results

RT: 3.88

Response: 16774

Amount: 1

Conc: 1



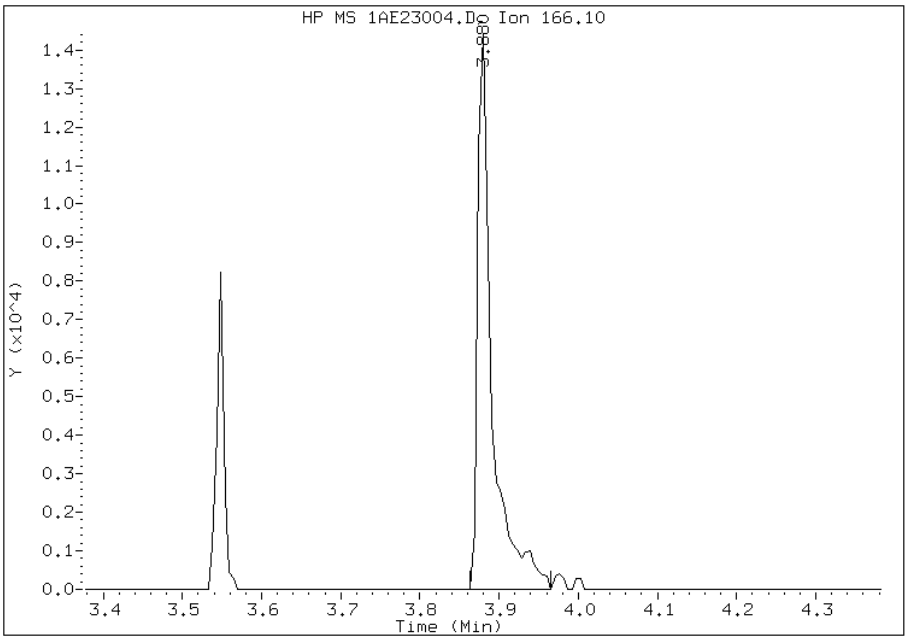
Manual Integration Results

RT: 3.88

Response: 17978

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 12 Phenanthrene
CAS #: 85-01-8
Report Date: 05/23/2013

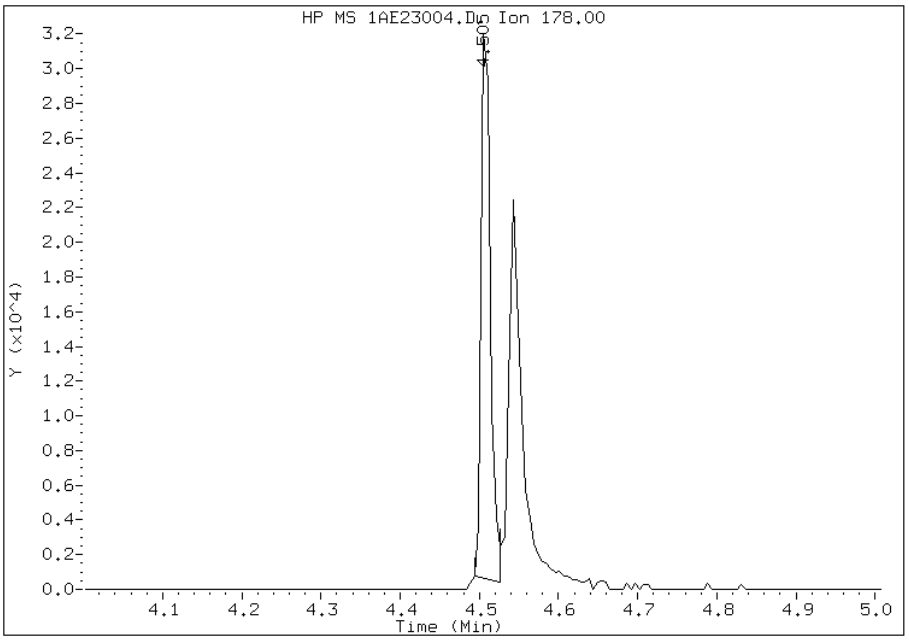
Processing Integration Results

RT: 4.50

Response: 25207

Amount: 1

Conc: 1



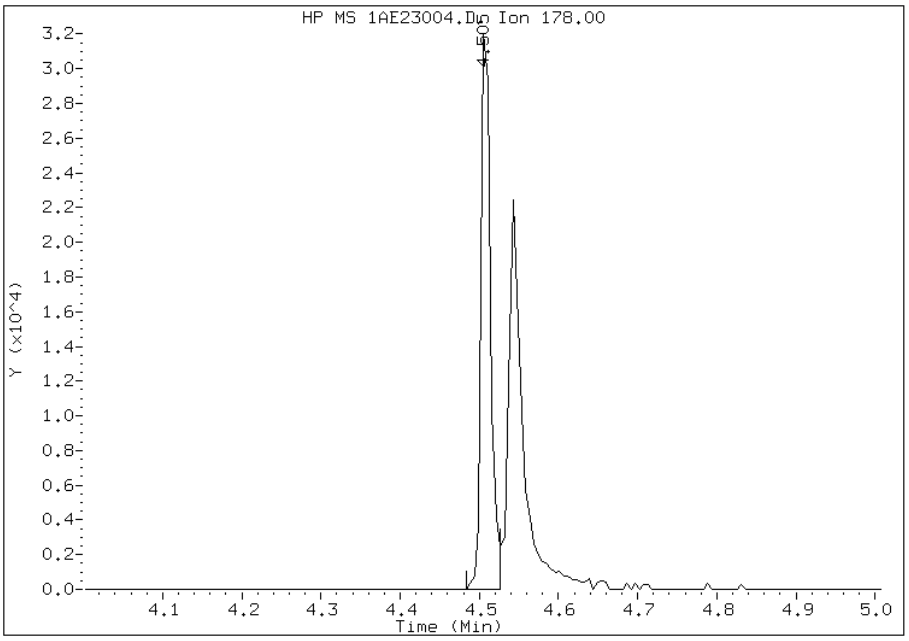
Manual Integration Results

RT: 4.50

Response: 26591

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Anthracene
CAS #: 120-12-7
Report Date: 05/23/2013

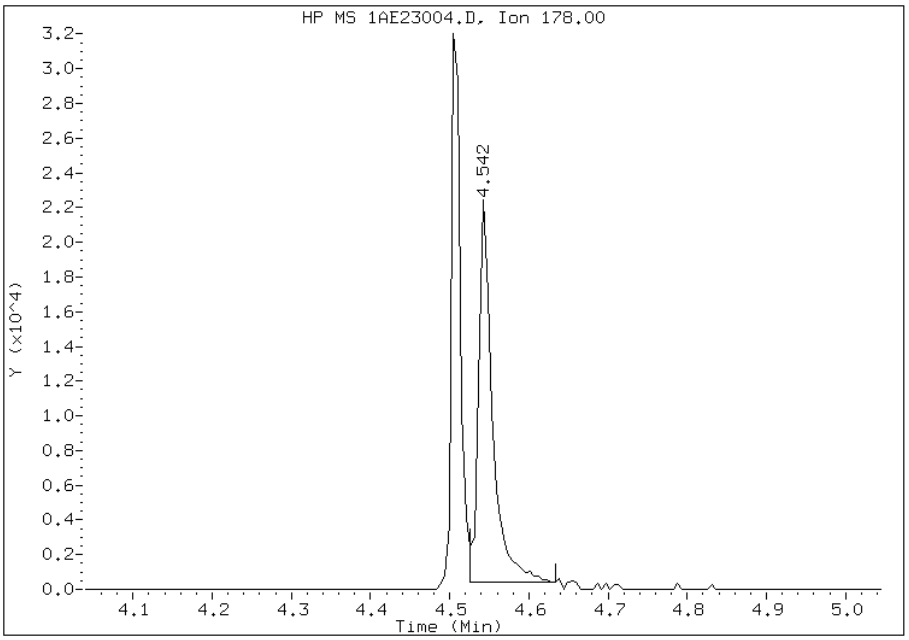
Processing Integration Results

RT: 4.54

Response: 26411

Amount: 1

Conc: 1



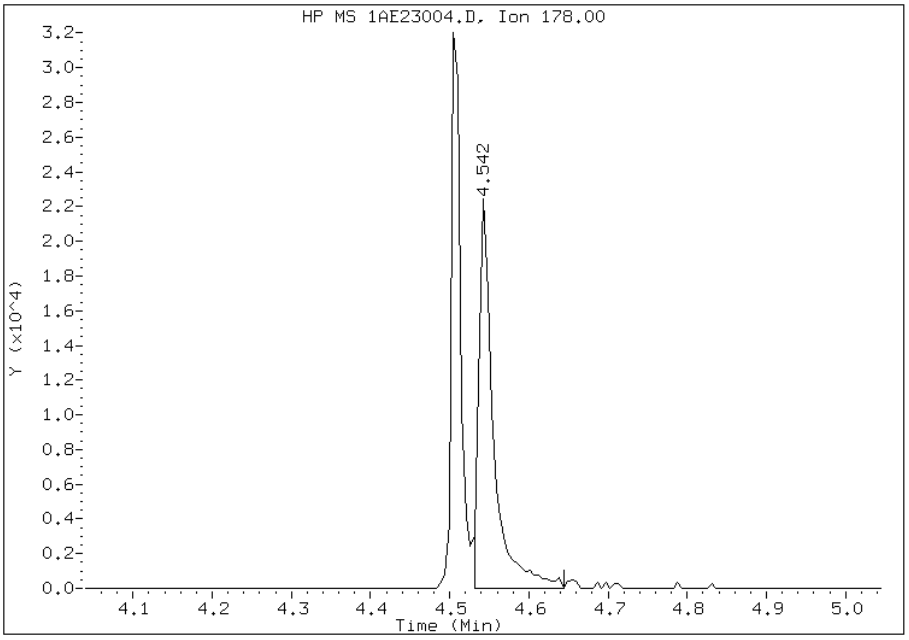
Manual Integration Results

RT: 4.54

Response: 28575

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 16 Fluoranthene
CAS #: 206-44-0
Report Date: 05/23/2013

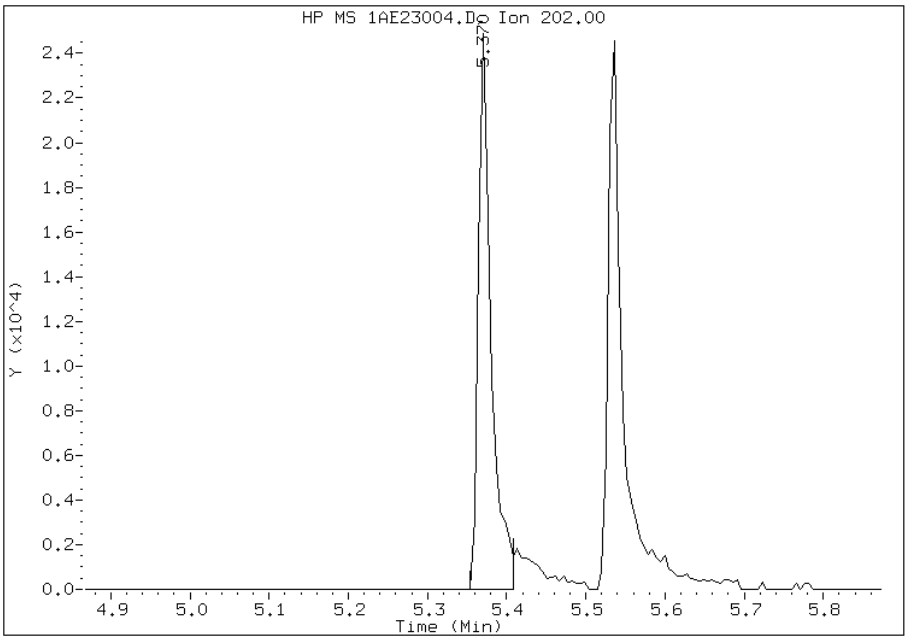
Processing Integration Results

RT: 5.37

Response: 27332

Amount: 1

Conc: 1



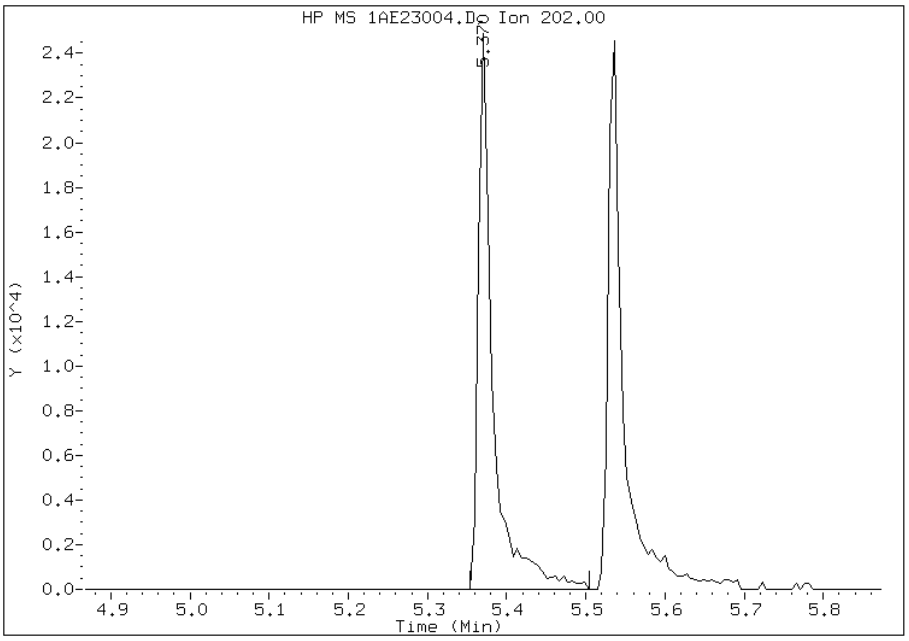
Manual Integration Results

RT: 5.37

Response: 31350

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 17 Pyrene
CAS #: 129-00-0
Report Date: 05/23/2013

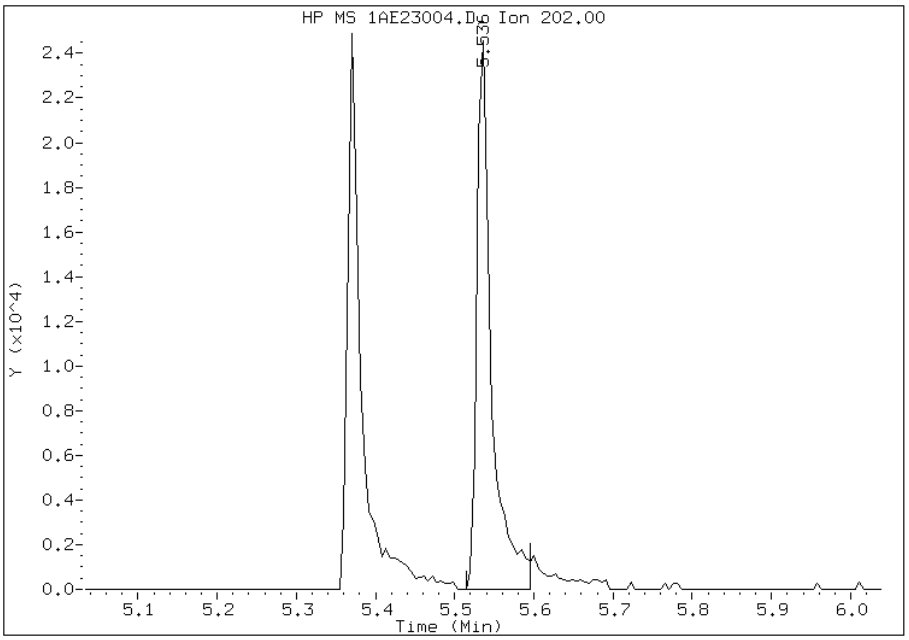
Processing Integration Results

RT: 5.54

Response: 31281

Amount: 1

Conc: 1



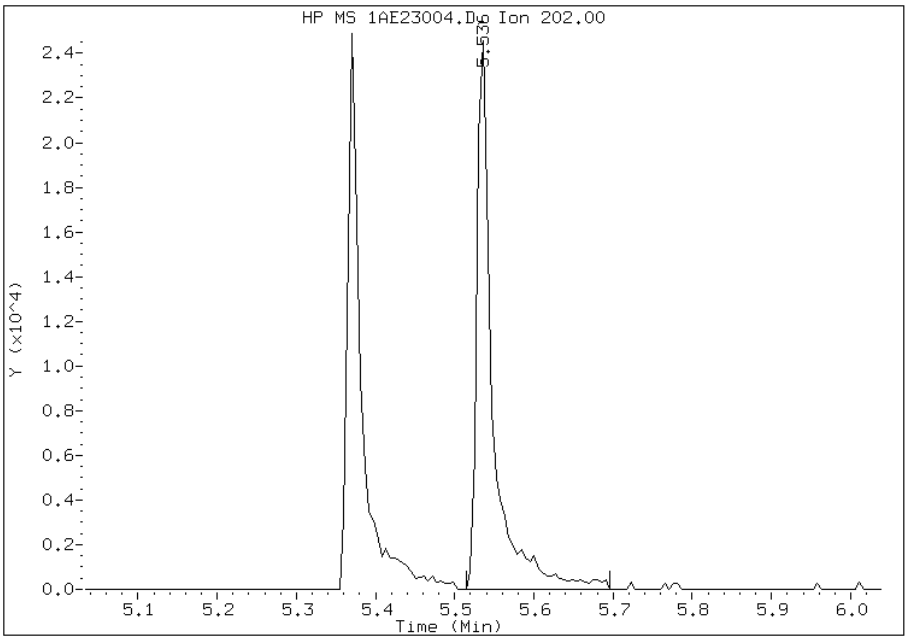
Manual Integration Results

RT: 5.54

Response: 34460

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 05/23/2013

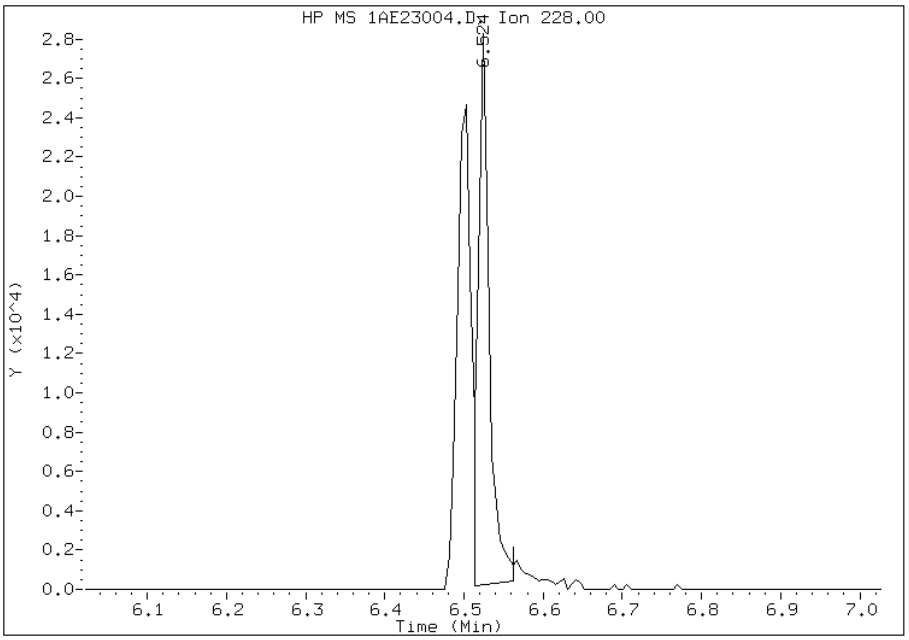
Processing Integration Results

RT: 6.52

Response: 27512

Amount: 1

Conc: 1



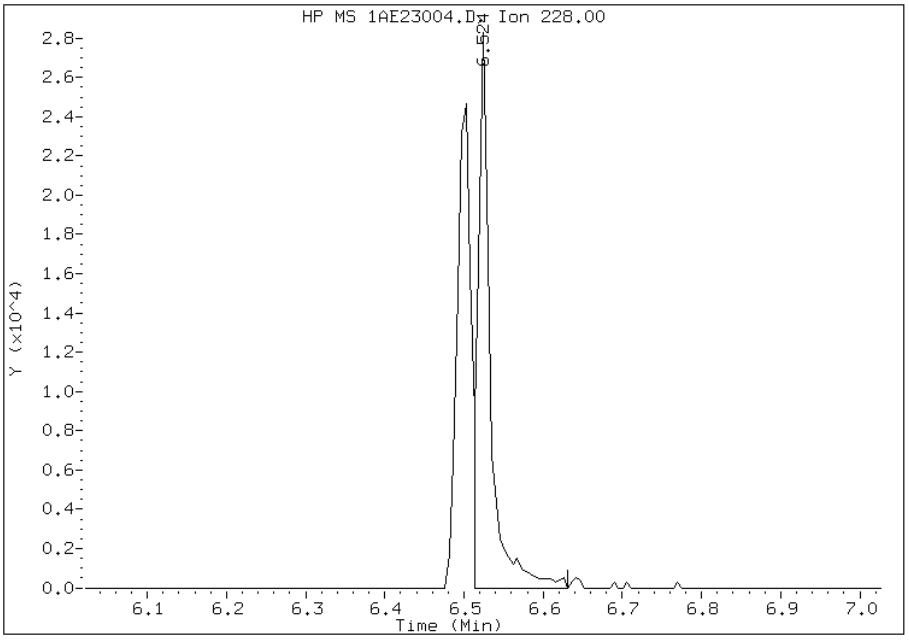
Manual Integration Results

RT: 6.52

Response: 31230

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/23/2013

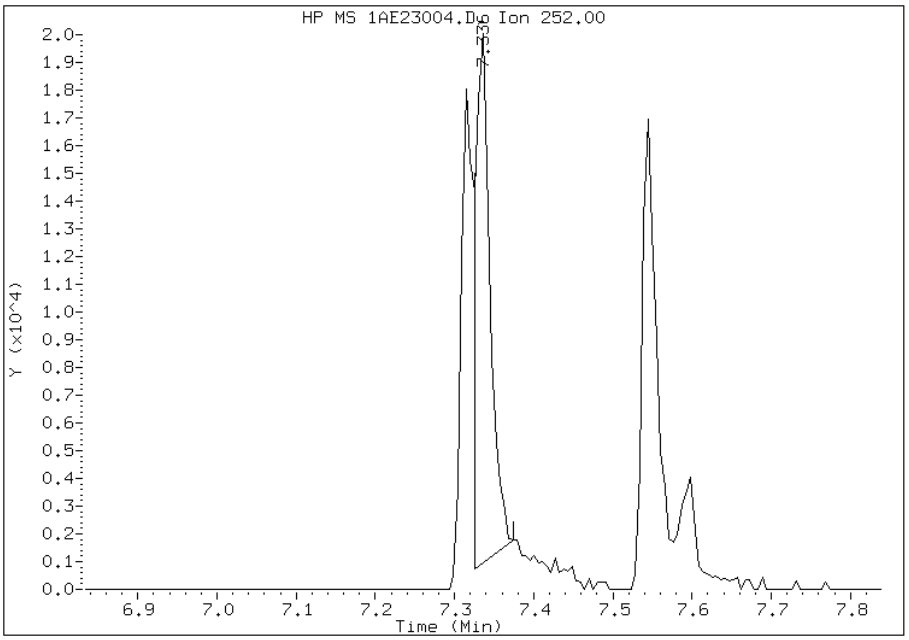
Processing Integration Results

RT: 7.34

Response: 24696

Amount: 1

Conc: 1



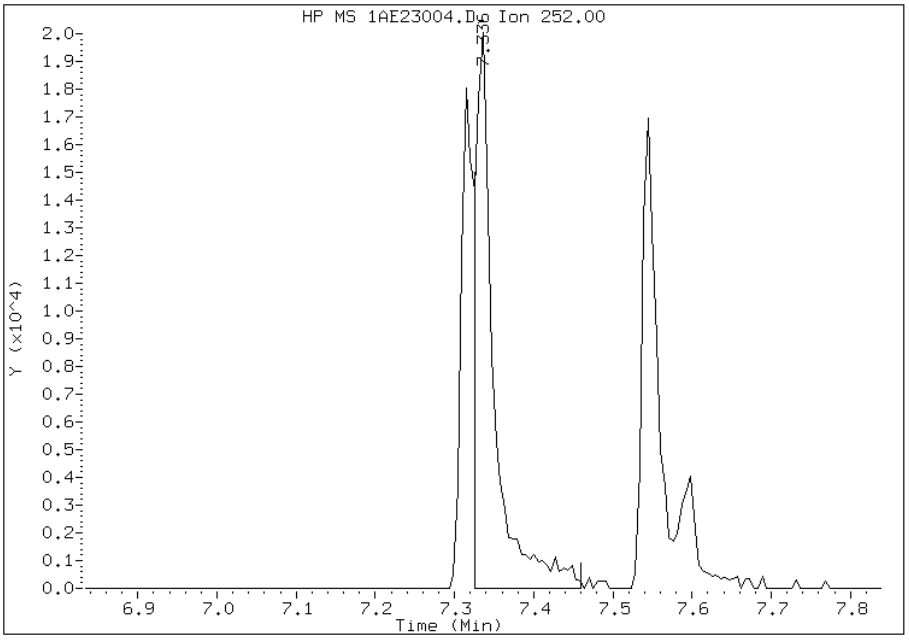
Manual Integration Results

RT: 7.34

Response: 33354

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

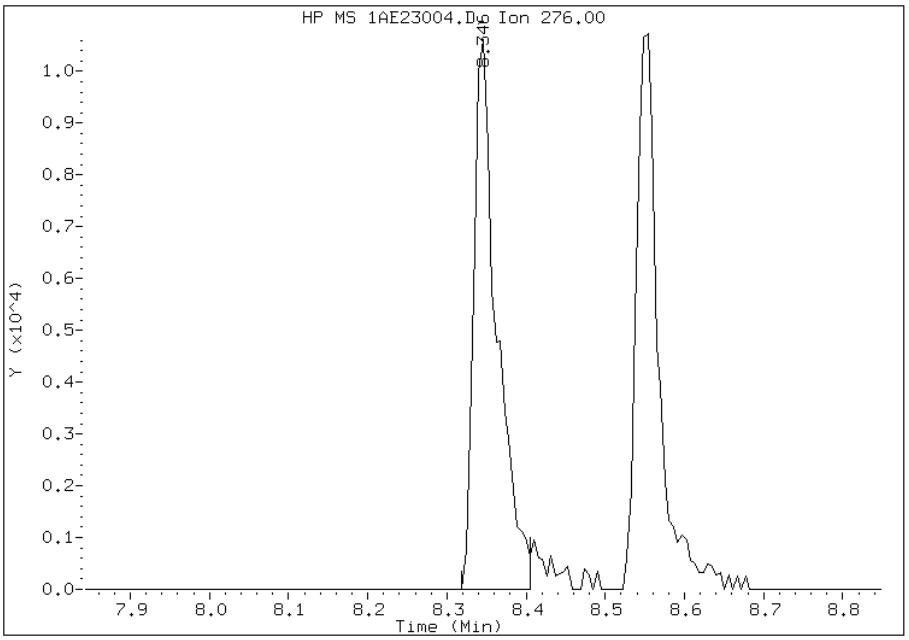
Processing Integration Results

RT: 8.35

Response: 21543

Amount: 1

Conc: 1



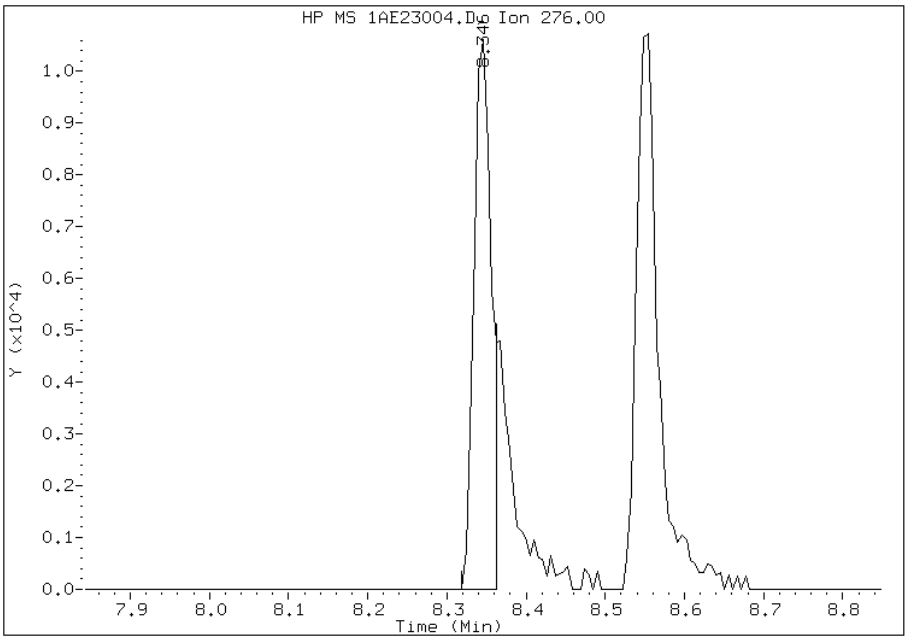
Manual Integration Results

RT: 8.35

Response: 16088

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:16
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/23/2013

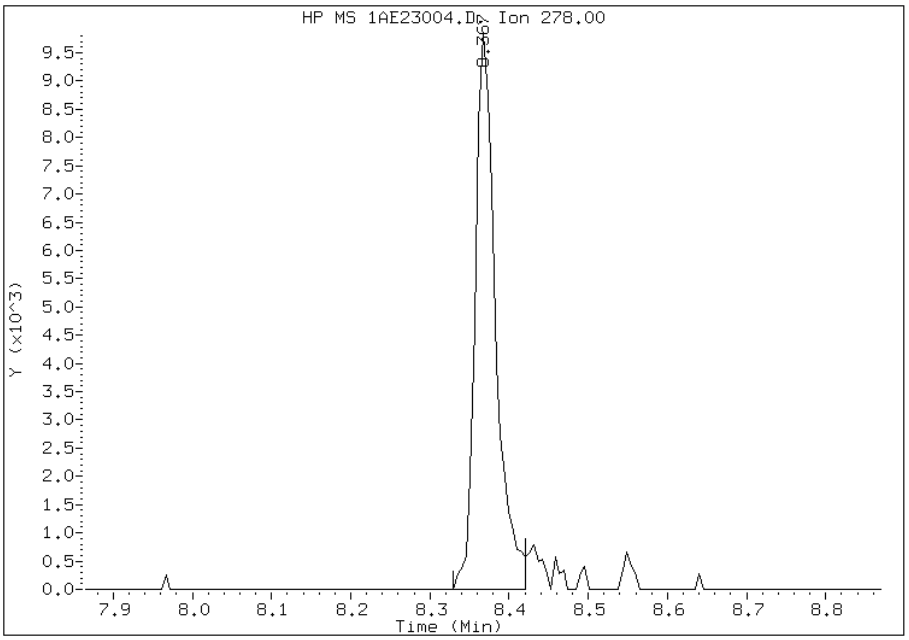
Processing Integration Results

RT: 8.37

Response: 17592

Amount: 1

Conc: 1



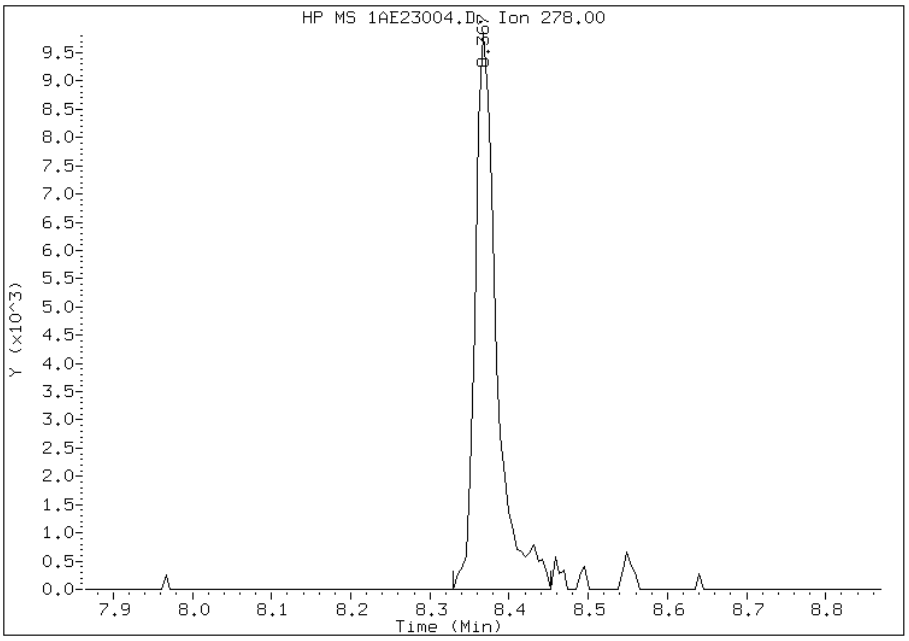
Manual Integration Results

RT: 8.37

Response: 18412

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/23/2013

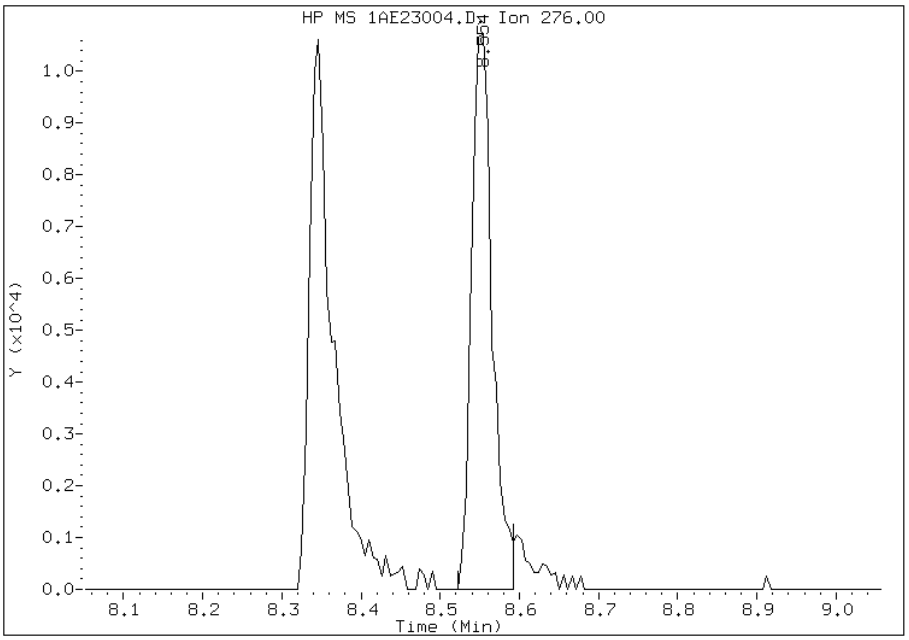
Processing Integration Results

RT: 8.55

Response: 19538

Amount: 1

Conc: 1



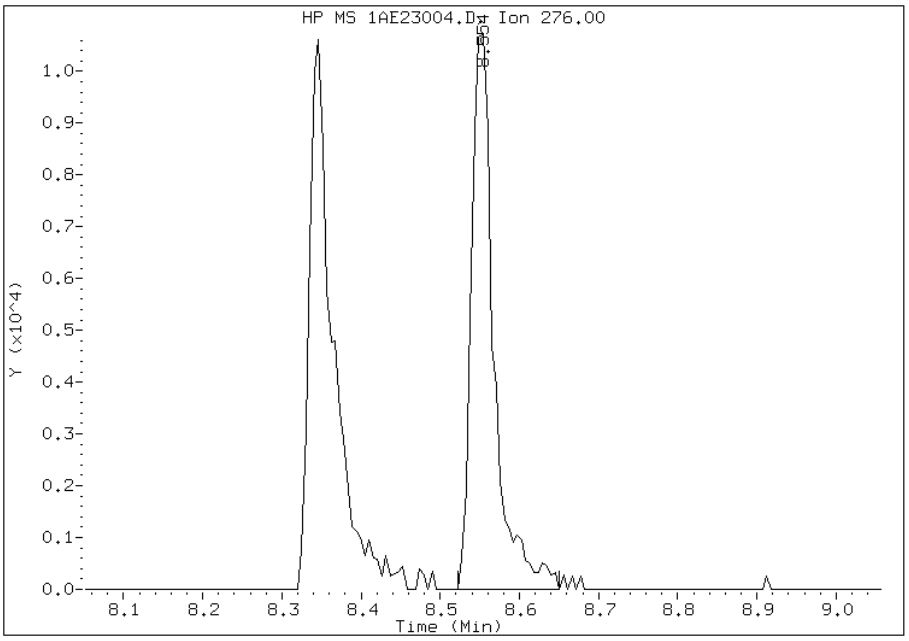
Manual Integration Results

RT: 8.55

Response: 21227

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:15
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23005.D
Lab Smp Id: IC3
Inj Date : 23-MAY-2013 13:21
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC3
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 15:24 BSMA5973.i Quant Type: ISTD
Cal Date : 23-MAY-2013 13:06 Cal File: 1AE23004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.523	2.527	(1.000)	1231679	40.0000	
* 7 Acenaphthene-d10	164	3.549	3.548	(1.000)	706937	40.0000	
* 11 Phenanthrene-d10	188	4.495	4.498	(1.000)	1195663	40.0000	
$ 15 o-Terphenyl	230	4.789	4.792	(1.065)	84325	5.00000	4.8761
* 19 Chrysene-d12	240	6.509	6.512	(1.000)	1145173	40.0000	
* 24 Perylene-d12	264	7.593	7.602	(1.000)	986574	40.0000	
2 Naphthalene	128	2.534	2.538	(1.004)	142169	5.00000	5.0981(M)
3 2-Methylnaphthalene	141	2.940	2.938	(1.165)	64889	5.00000	4.8870
4 1-Methylnaphthalene	142	2.994	2.992	(1.186)	104592	5.00000	5.3930(M)
5 1,1'-Biphenyl	154	3.218	3.216	(1.275)	107964	5.00000	4.9836(M)
6 Acenaphthylene	152	3.458	3.462	(0.974)	146419	5.00000	4.7336(M)
8 Acenaphthene	154	3.565	3.569	(1.005)	77989	5.00000	4.7173
9 Dibenzofuran	168	3.672	3.670	(1.035)	123824	5.00000	4.8921(M)
10 Fluorene	166	3.875	3.879	(1.092)	93865	5.00000	4.8907(M)
12 Phenanthrene	178	4.505	4.509	(1.002)	125719	5.00000	4.6686
13 Anthracene	178	4.543	4.546	(1.011)	133318	5.00000	4.7324
16 Fluoranthene	202	5.371	5.375	(1.195)	155397	5.00000	4.6219(M)
17 Pyrene	202	5.531	5.540	(0.850)	161372	5.00000	4.6764
18 Benzo(a)anthracene	228	6.503	6.502	(0.999)	146679	5.00000	4.3603
20 Chrysene	228	6.525	6.534	(1.002)	155092	5.00000	5.0732(M)
21 Benzo(b)fluoranthene	252	7.315	7.319	(0.963)	104550	5.00000	4.2709
22 Benzo(k)fluoranthene	252	7.331	7.346	(0.966)	175177	5.00000	5.3368(M)
23 Benzo(a)pyrene	252	7.540	7.549	(0.993)	117818	5.00000	4.8955(M)
25 Indeno(1,2,3-cd)pyrene	276	8.330	8.355	(1.097)	95139	5.00000	4.4961(M)
26 Dibenzo(a,h)anthracene	278	8.357	8.377	(1.101)	97574	5.00000	4.7234(M)
27 Benzo(g,h,i)perylene	276	8.539	8.569	(1.125)	102445	5.00000	4.8393(M)

QC Flag Legend

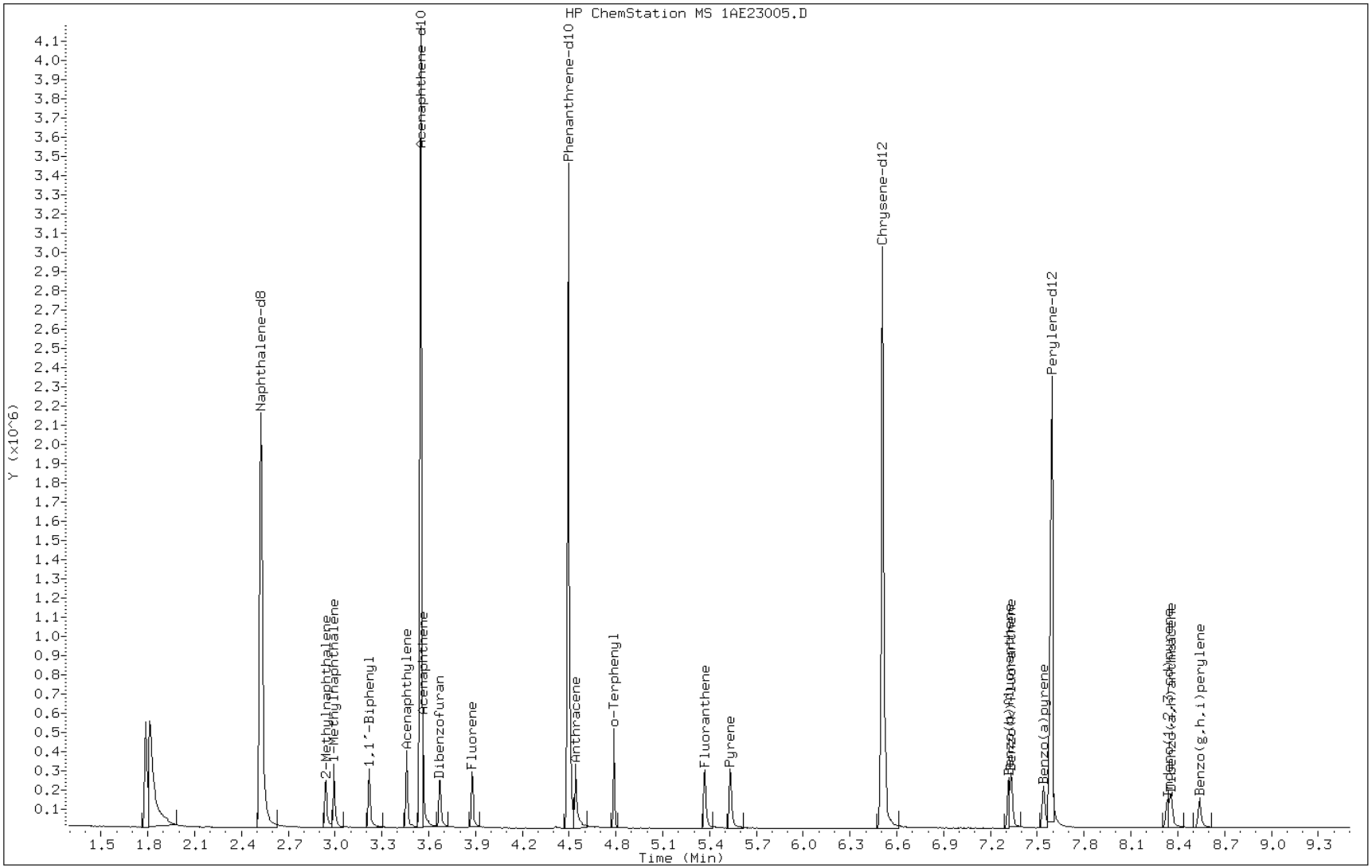
M - Compound response manually integrated.

Data File: 1AE23005.D

Date: 23-MAY-2013 13:21

Client ID: Instrument: BSMA5973.i

Sample Info: IC3 Operator: SCC



Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/23/2013

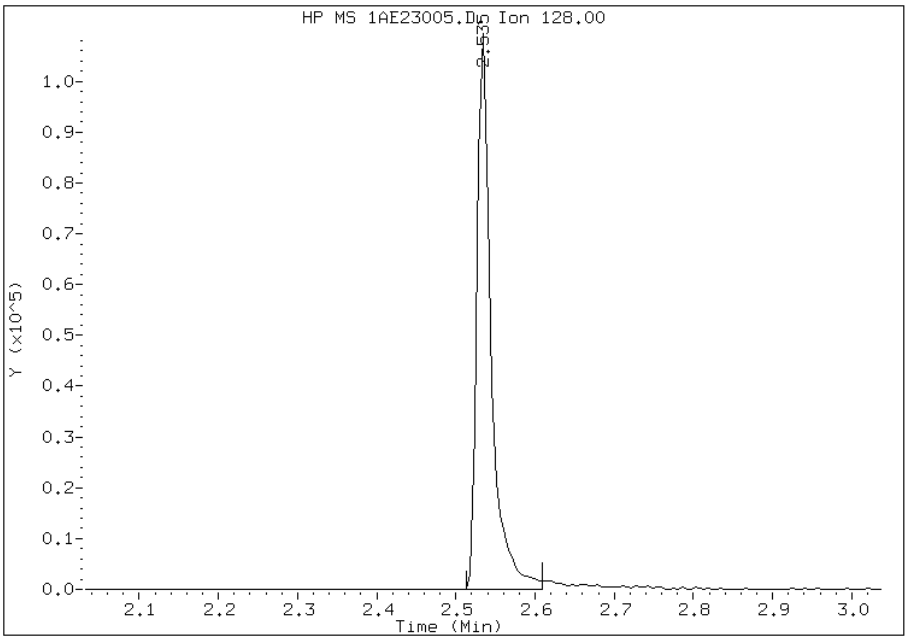
Processing Integration Results

RT: 2.53

Response: 135153

Amount: 5

Conc: 5



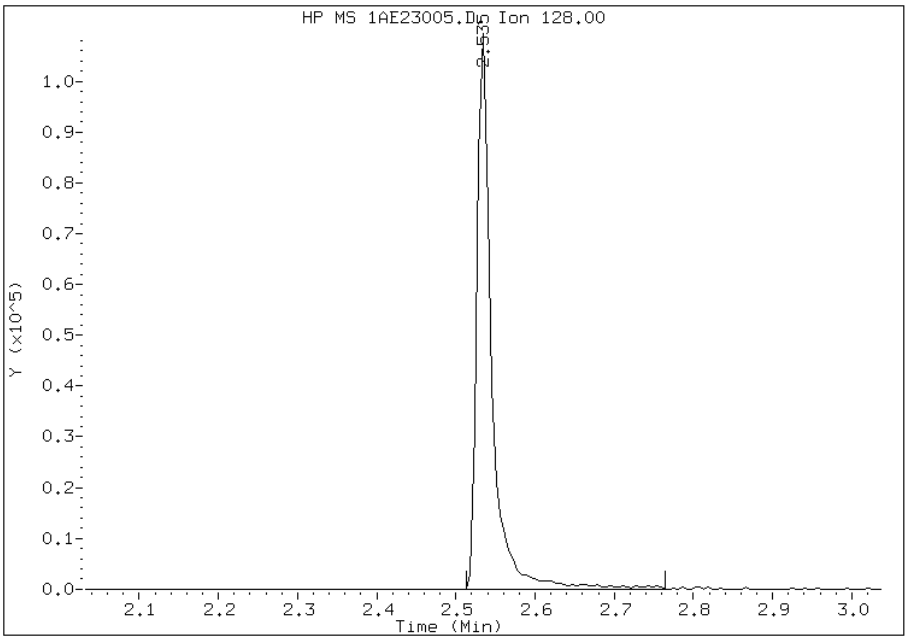
Manual Integration Results

RT: 2.53

Response: 142169

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 05/23/2013

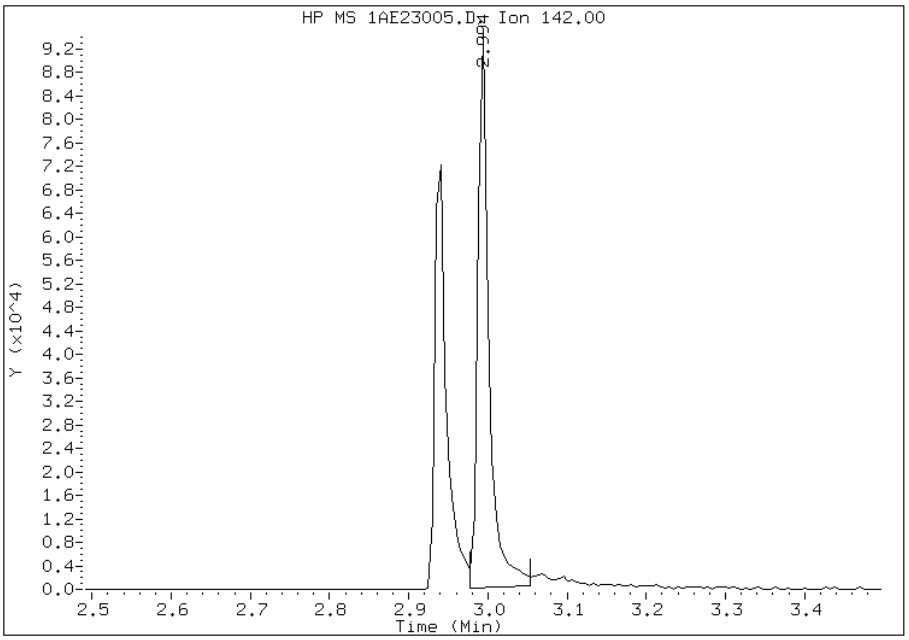
Processing Integration Results

RT: 2.99

Response: 89931

Amount: 5

Conc: 5



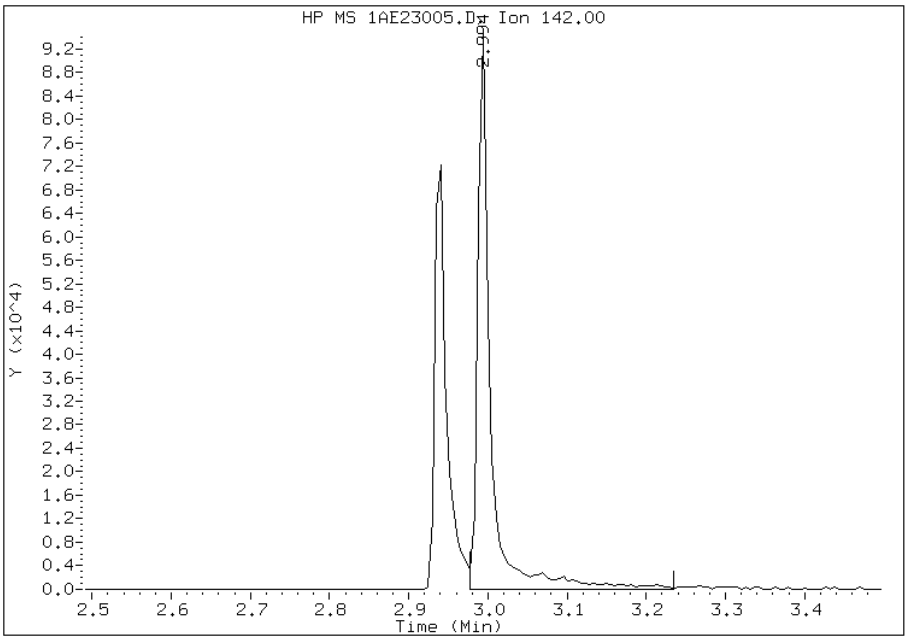
Manual Integration Results

RT: 2.99

Response: 104592

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 5 1,1'-Biphenyl
CAS #: 92-52-4
Report Date: 05/23/2013

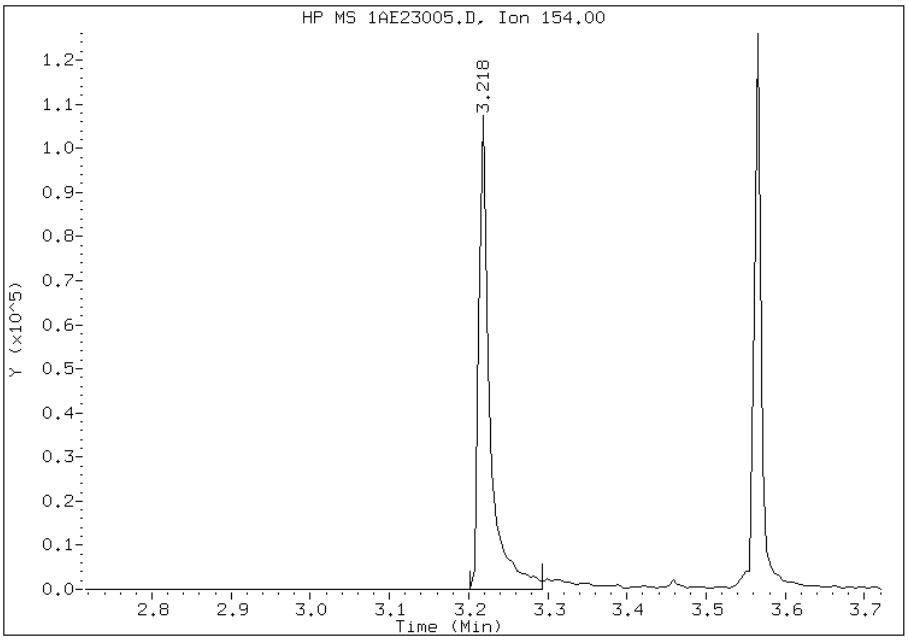
Processing Integration Results

RT: 3.22

Response: 102042

Amount: 5

Conc: 5



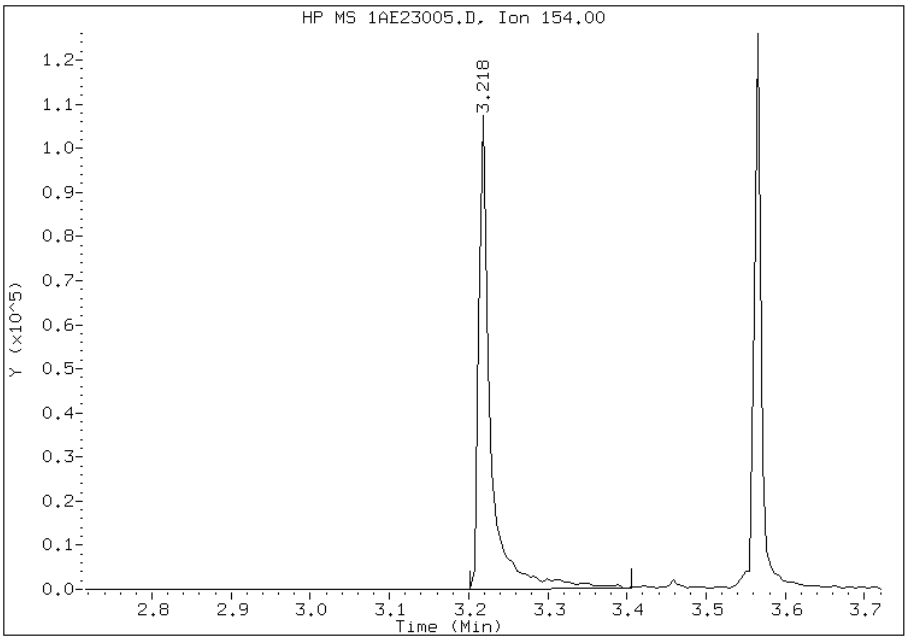
Manual Integration Results

RT: 3.22

Response: 107964

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 6 Acenaphthylene
CAS #: 208-96-8
Report Date: 05/23/2013

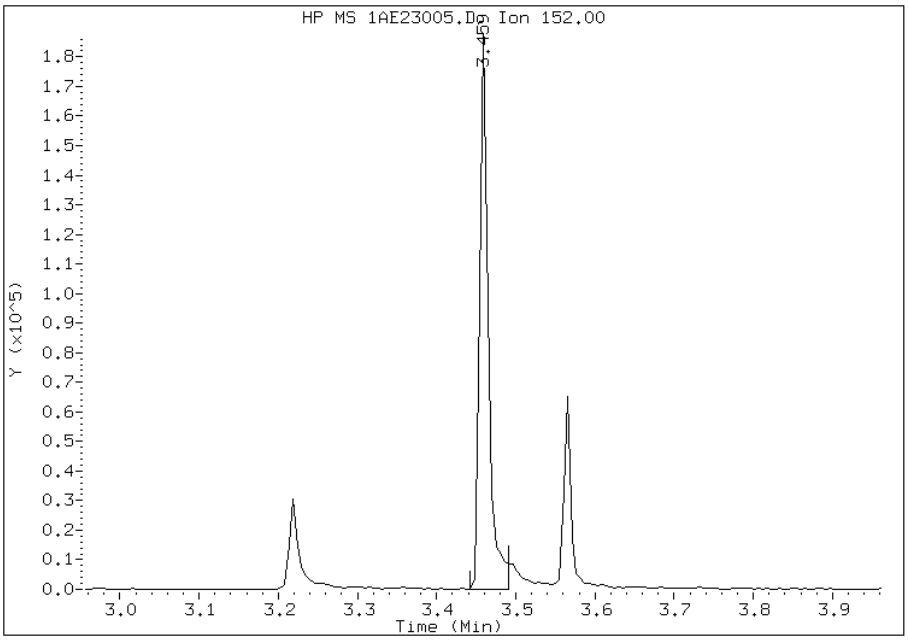
Processing Integration Results

RT: 3.46

Response: 139357

Amount: 5

Conc: 5



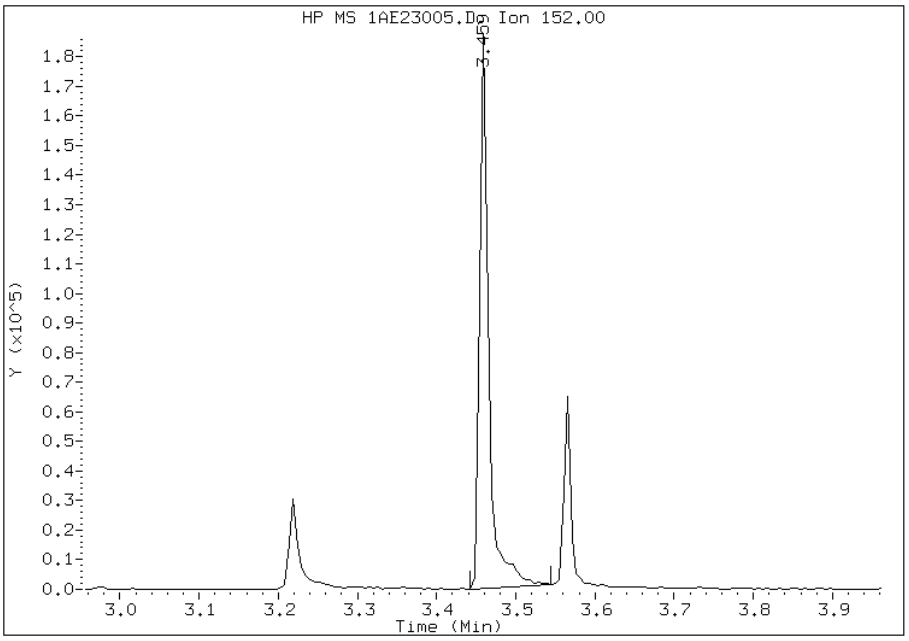
Manual Integration Results

RT: 3.46

Response: 146419

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 9 Dibenzofuran
CAS #: 132-64-9
Report Date: 05/23/2013

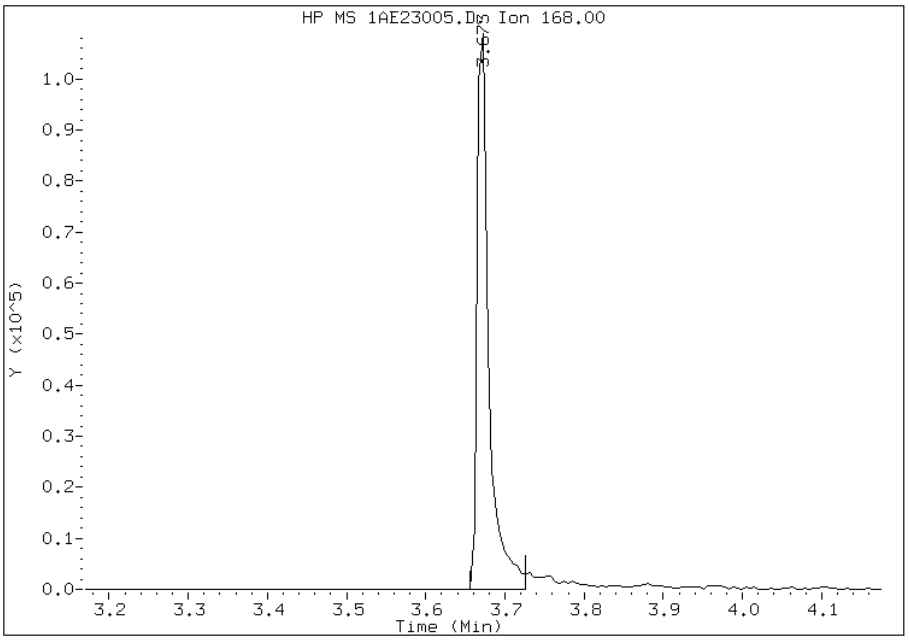
Processing Integration Results

RT: 3.67

Response: 111147

Amount: 4

Conc: 4



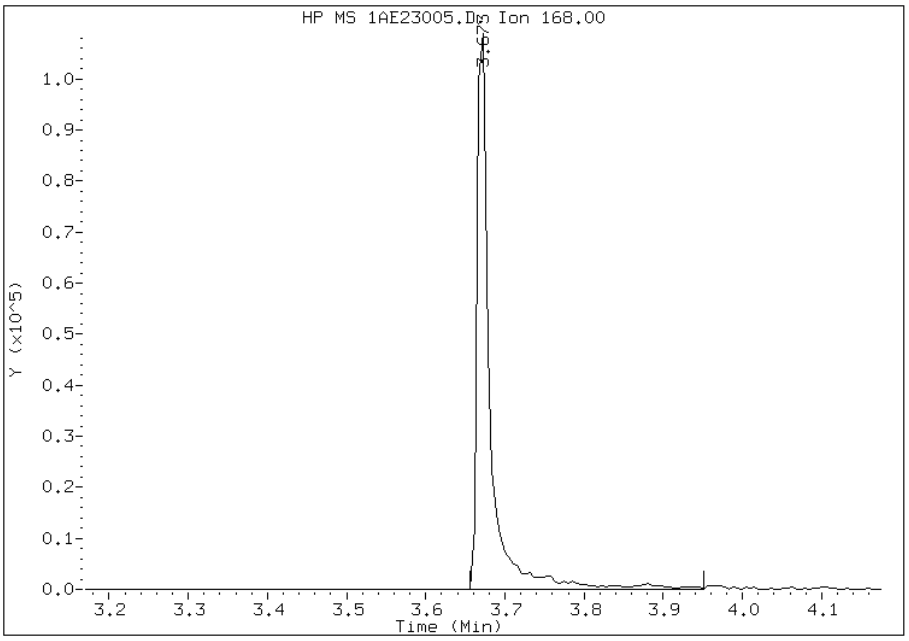
Manual Integration Results

RT: 3.67

Response: 123824

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 10 Fluorene
CAS #: 86-73-7
Report Date: 05/23/2013

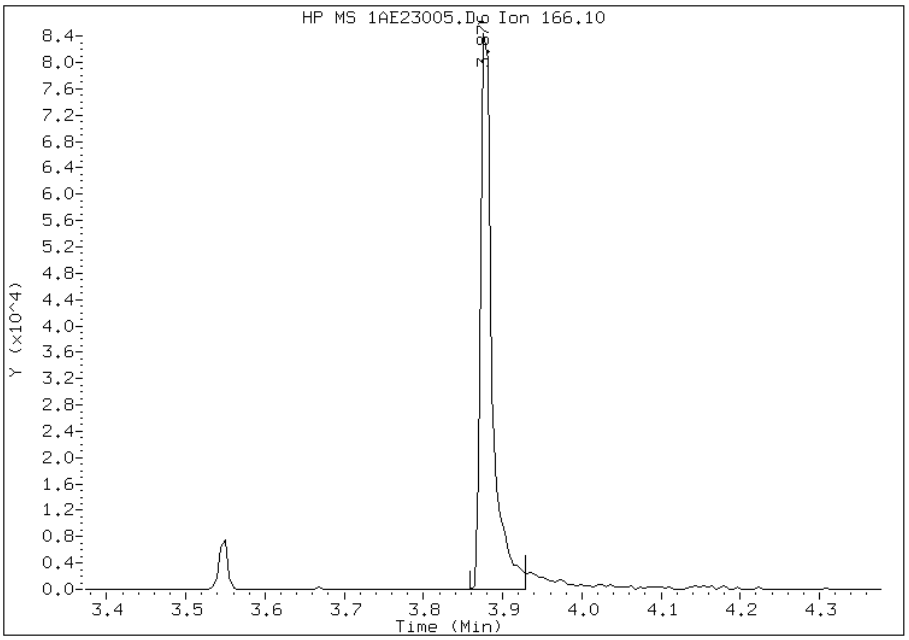
Processing Integration Results

RT: 3.88

Response: 85454

Amount: 5

Conc: 5



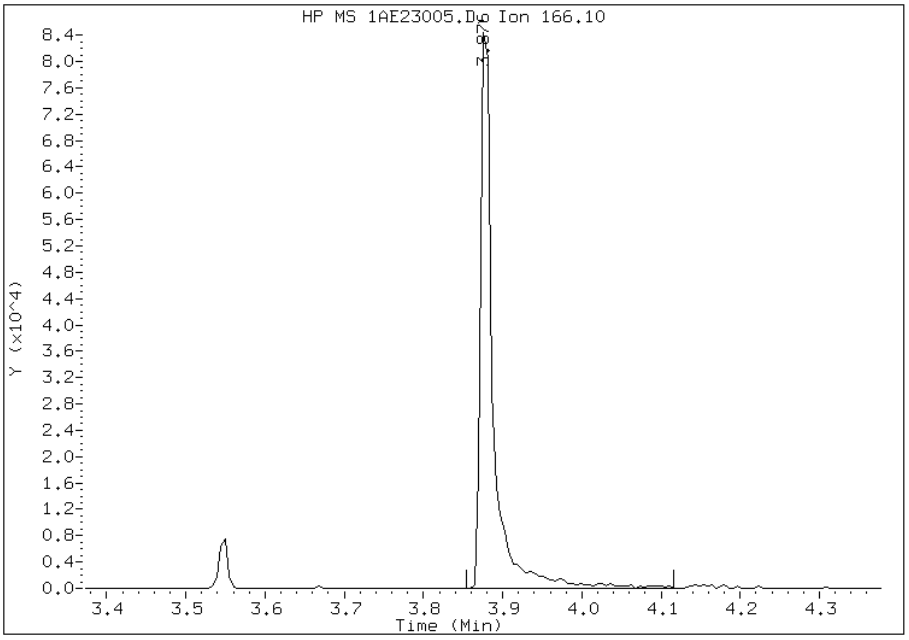
Manual Integration Results

RT: 3.88

Response: 93865

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 16 Fluoranthene
CAS #: 206-44-0
Report Date: 05/23/2013

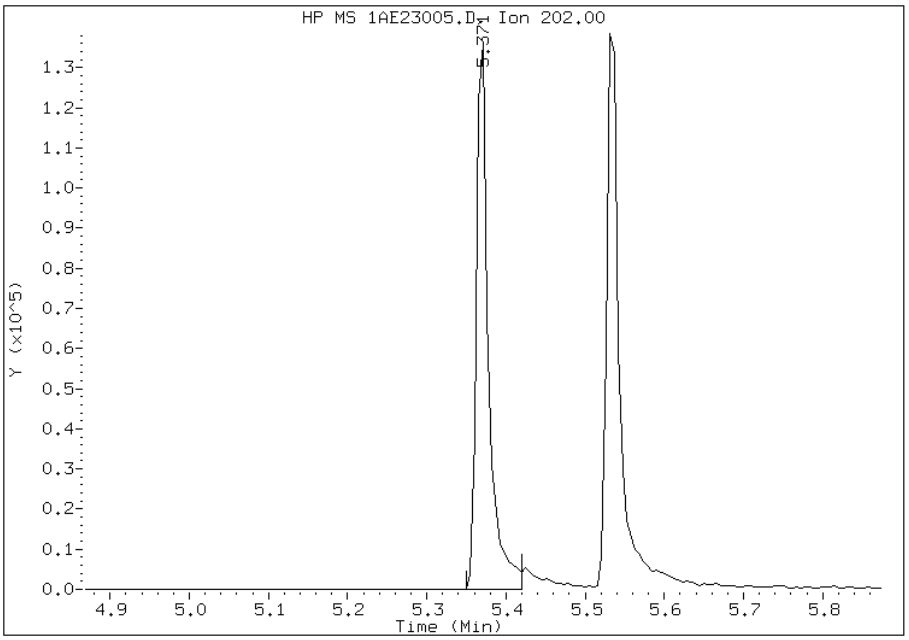
Processing Integration Results

RT: 5.37

Response: 147606

Amount: 4

Conc: 4



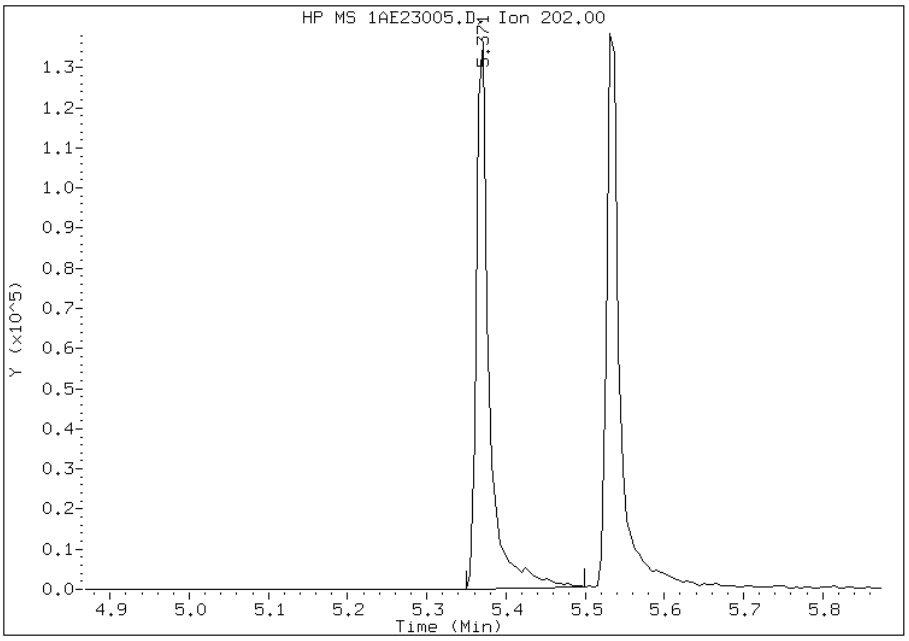
Manual Integration Results

RT: 5.37

Response: 155397

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 05/23/2013

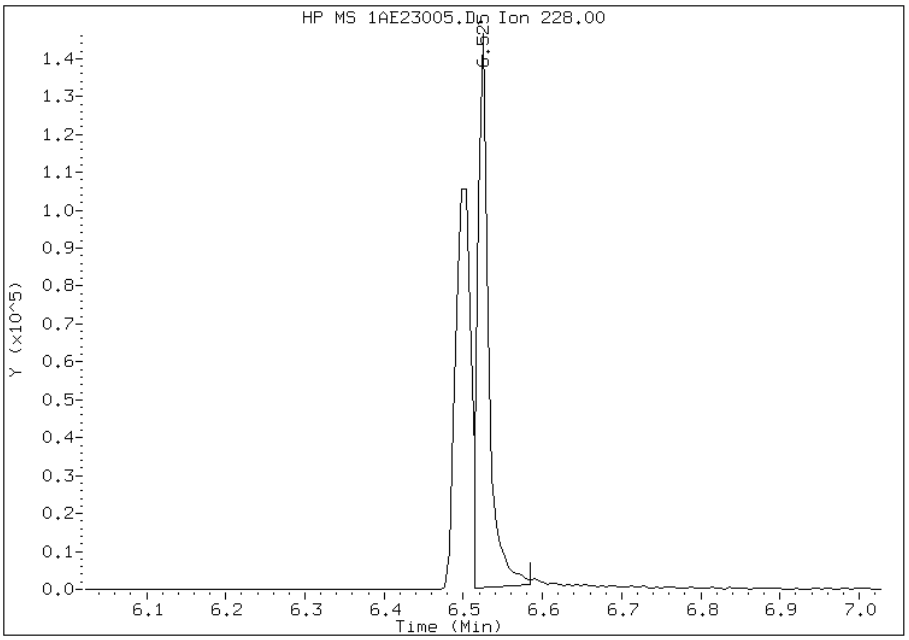
Processing Integration Results

RT: 6.53

Response: 139358

Amount: 5

Conc: 5



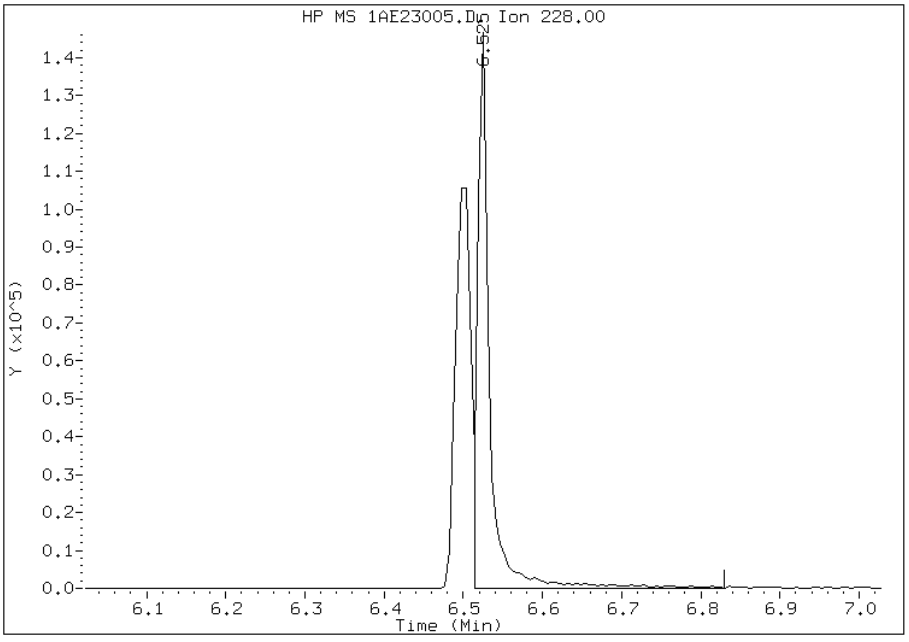
Manual Integration Results

RT: 6.53

Response: 155092

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/23/2013

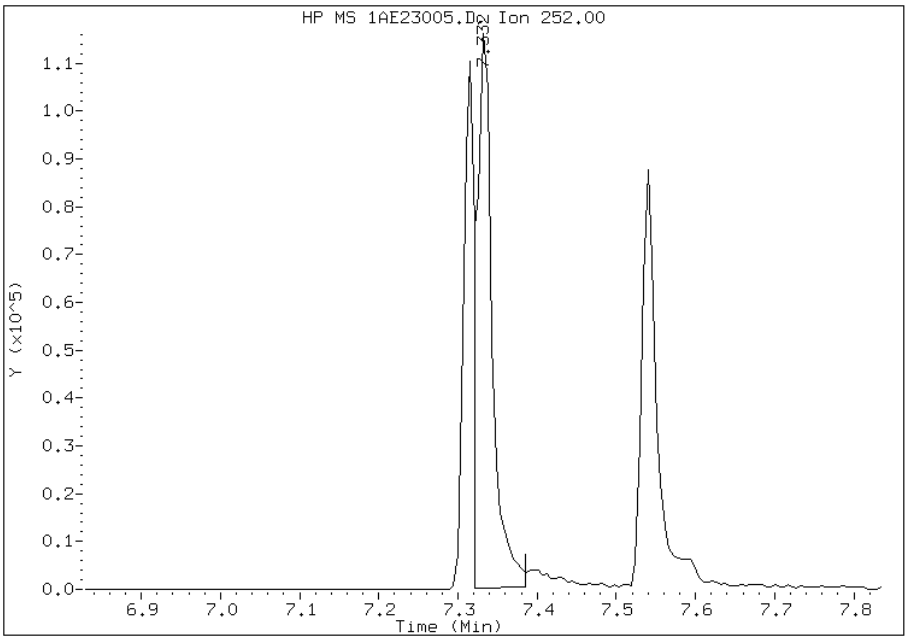
Processing Integration Results

RT: 7.33

Response: 163438

Amount: 5

Conc: 5



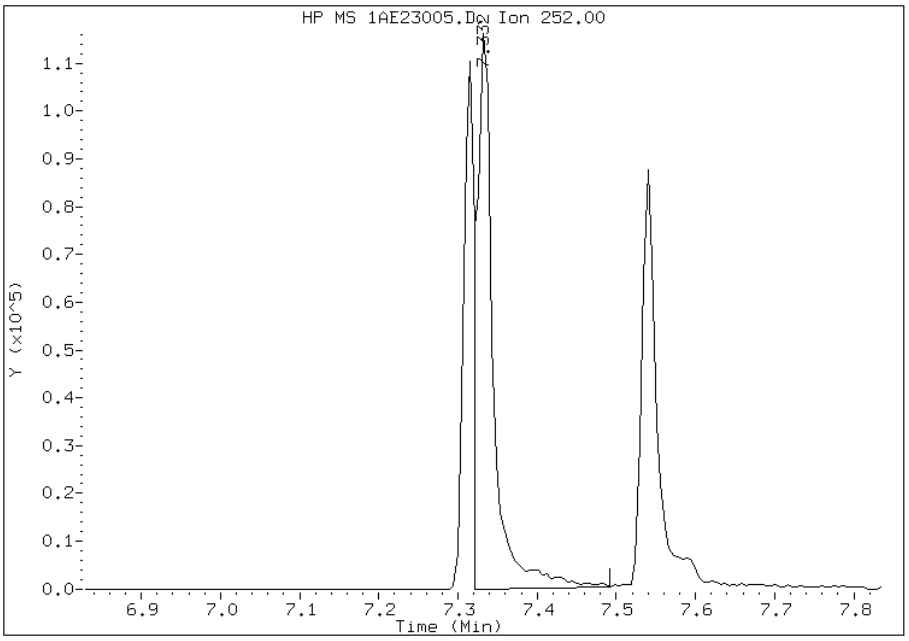
Manual Integration Results

RT: 7.33

Response: 175177

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 23 Benzo(a)pyrene
CAS #: 50-32-8
Report Date: 05/23/2013

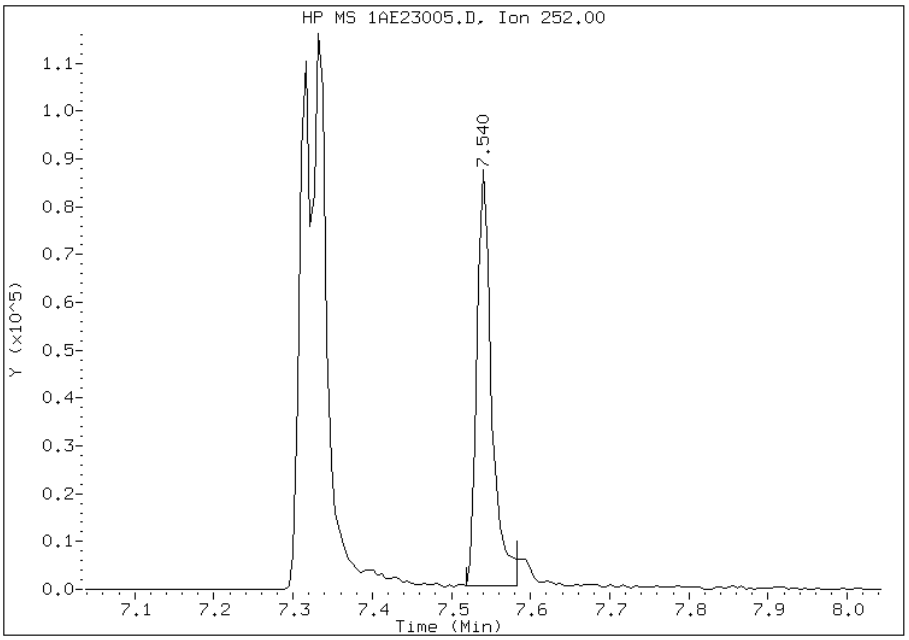
Processing Integration Results

RT: 7.54

Response: 111461

Amount: 5

Conc: 5



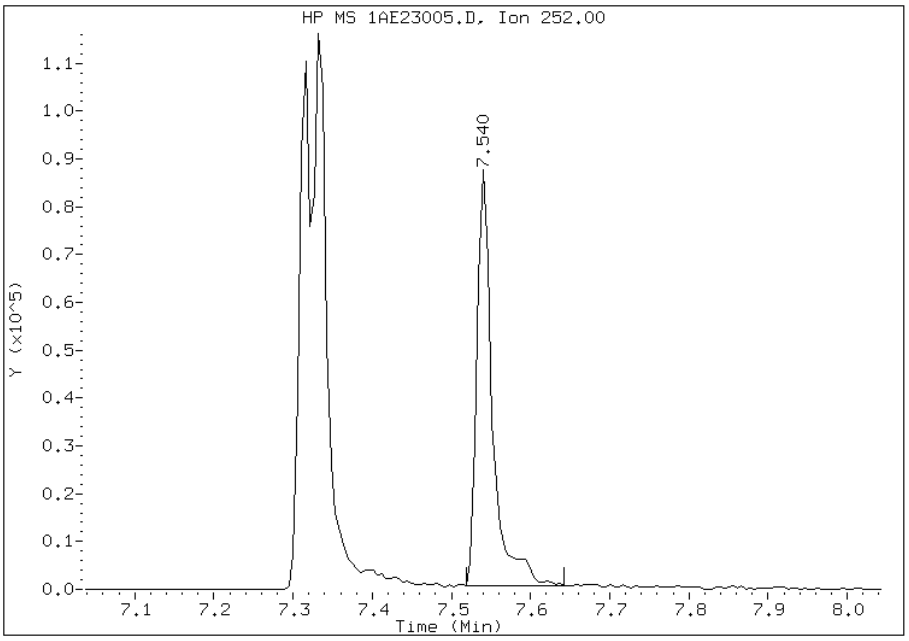
Manual Integration Results

RT: 7.54

Response: 117818

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

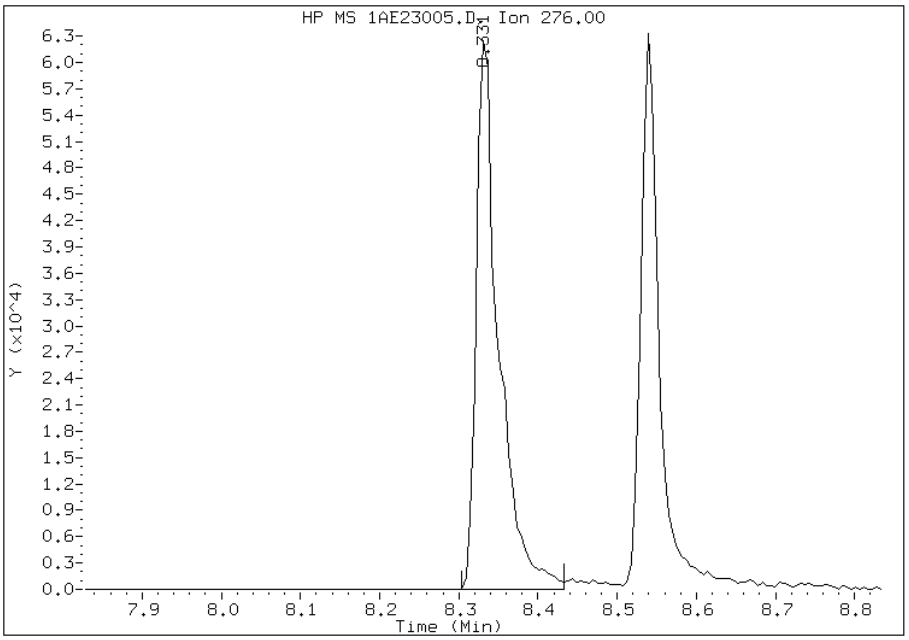
Processing Integration Results

RT: 8.33

Response: 122001

Amount: 6

Conc: 6



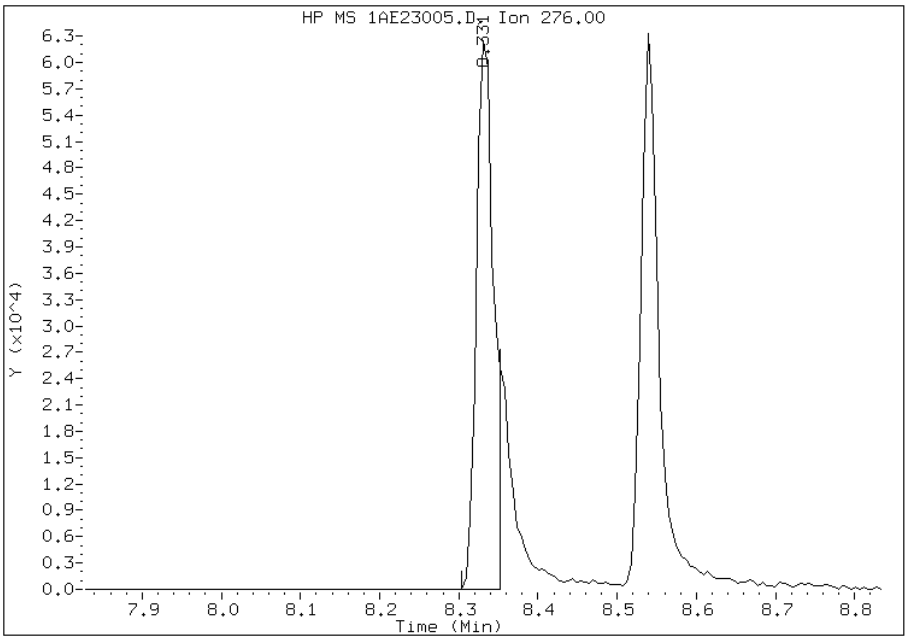
Manual Integration Results

RT: 8.33

Response: 95139

Amount: 4

Conc: 4



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:23
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/23/2013

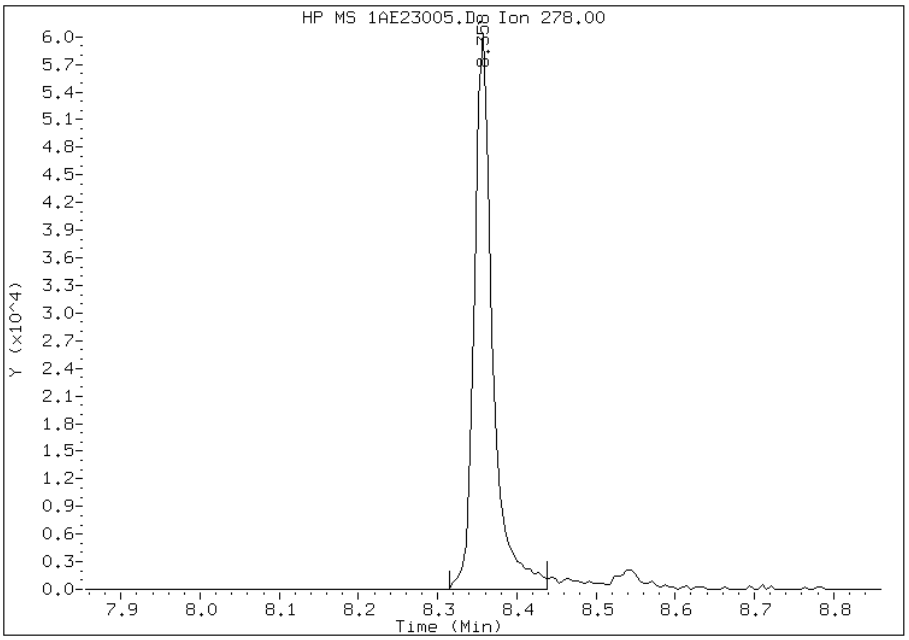
Processing Integration Results

RT: 8.36

Response: 96633

Amount: 5

Conc: 5



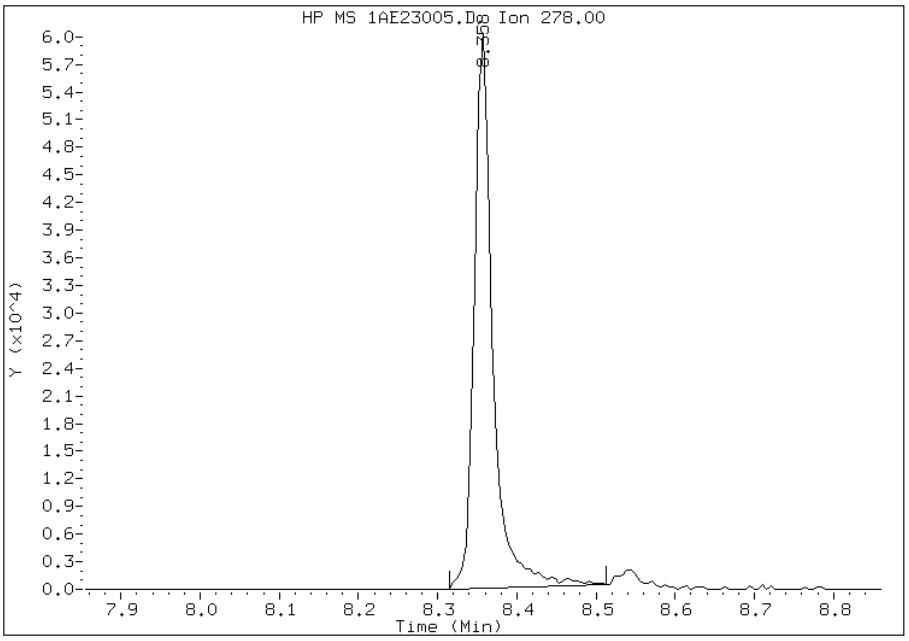
Manual Integration Results

RT: 8.36

Response: 97574

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/23/2013

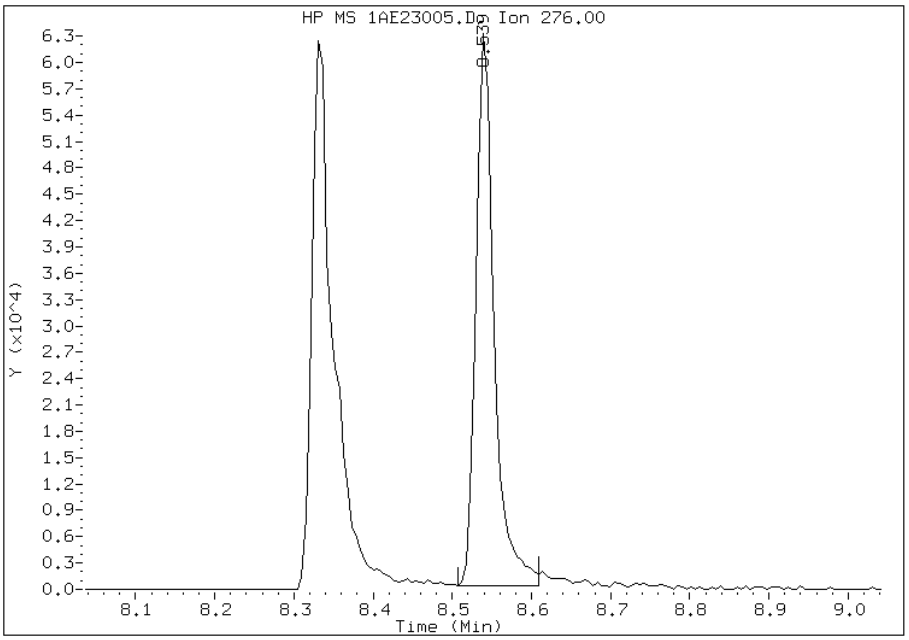
Processing Integration Results

RT: 8.54

Response: 99278

Amount: 5

Conc: 5



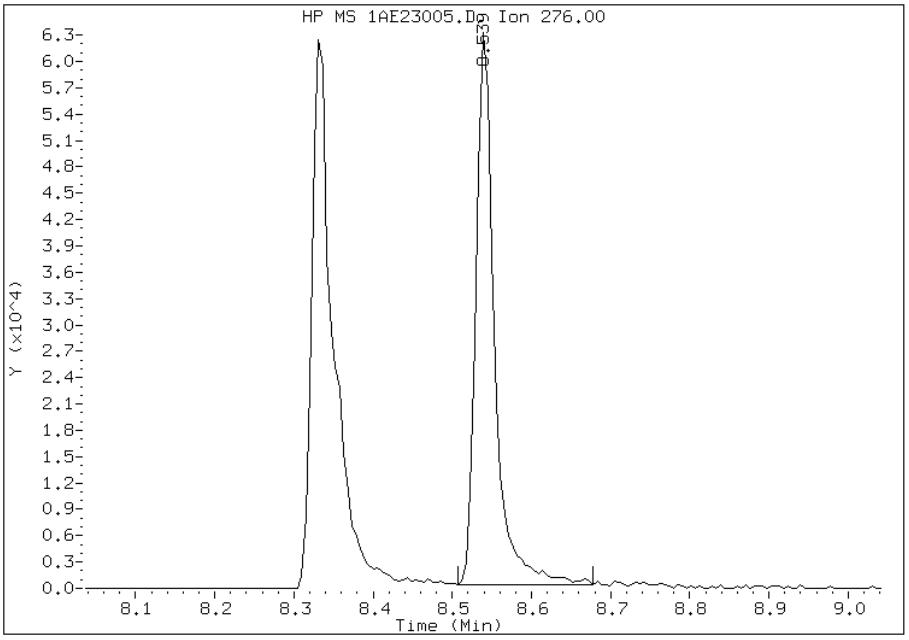
Manual Integration Results

RT: 8.54

Response: 102445

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:23
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23006.D
Lab Smp Id: IC4
Inj Date : 23-MAY-2013 13:36
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC4
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 15:24 BSMA5973.i Quant Type: ISTD
Cal Date : 23-MAY-2013 13:21 Cal File: 1AE23005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.522	2.527	(1.000)	1258004	40.0000	
*	7 Acenaphthene-d10	164	3.547	3.548	(1.000)	687005	40.0000	
*	11 Phenanthrene-d10	188	4.493	4.498	(1.000)	1232153	40.0000	
$	15 o-Terphenyl	230	4.787	4.792	(1.065)	181006	10.0000	10.1568
*	19 Chrysene-d12	240	6.512	6.512	(1.000)	1155708	40.0000	
*	24 Perylene-d12	264	7.602	7.602	(1.000)	1048936	40.0000	
	2 Naphthalene	128	2.532	2.538	(1.004)	292802	10.0000	10.2800
	3 2-Methylnaphthalene	141	2.938	2.938	(1.165)	142672	10.0000	10.5203
	4 1-Methylnaphthalene	142	2.992	2.992	(1.186)	197150	10.0000	9.9528
	5 1,1'-Biphenyl	154	3.216	3.216	(1.275)	226391	10.0000	10.2315
	6 Acenaphthylene	152	3.457	3.462	(0.974)	319831	10.0000	10.6398
	8 Acenaphthene	154	3.563	3.569	(1.005)	157029	10.0000	9.7737
	9 Dibenzofuran	168	3.670	3.670	(1.035)	248677	10.0000	10.1099
	10 Fluorene	166	3.879	3.879	(1.093)	191330	10.0000	10.2583
	12 Phenanthrene	178	4.509	4.509	(1.004)	269043	10.0000	9.6951
	13 Anthracene	178	4.541	4.546	(1.011)	292299	10.0000	10.0686
	16 Fluoranthene	202	5.369	5.375	(1.195)	336165	10.0000	9.7023
	17 Pyrene	202	5.535	5.540	(0.850)	343849	10.0000	9.8736
	18 Benzo(a)anthracene	228	6.502	6.502	(0.998)	332493	10.0000	9.7939
	20 Chrysene	228	6.528	6.534	(1.002)	289372	10.0000	9.3794
	21 Benzo(b)fluoranthene	252	7.319	7.319	(0.963)	287554	10.0000	11.0484
	22 Benzo(k)fluoranthene	252	7.340	7.346	(0.966)	324503	10.0000	9.2983
	23 Benzo(a)pyrene	252	7.543	7.549	(0.992)	262575	10.0000	10.2618(M)
	25 Indeno(1,2,3-cd)pyrene	276	8.350	8.355	(1.098)	212302	10.0000	9.4366(M)
	26 Dibenzo(a,h)anthracene	278	8.371	8.377	(1.101)	217038	10.0000	9.8818(M)
	27 Benzo(g,h,i)perylene	276	8.558	8.569	(1.126)	215153	10.0000	9.5592

QC Flag Legend

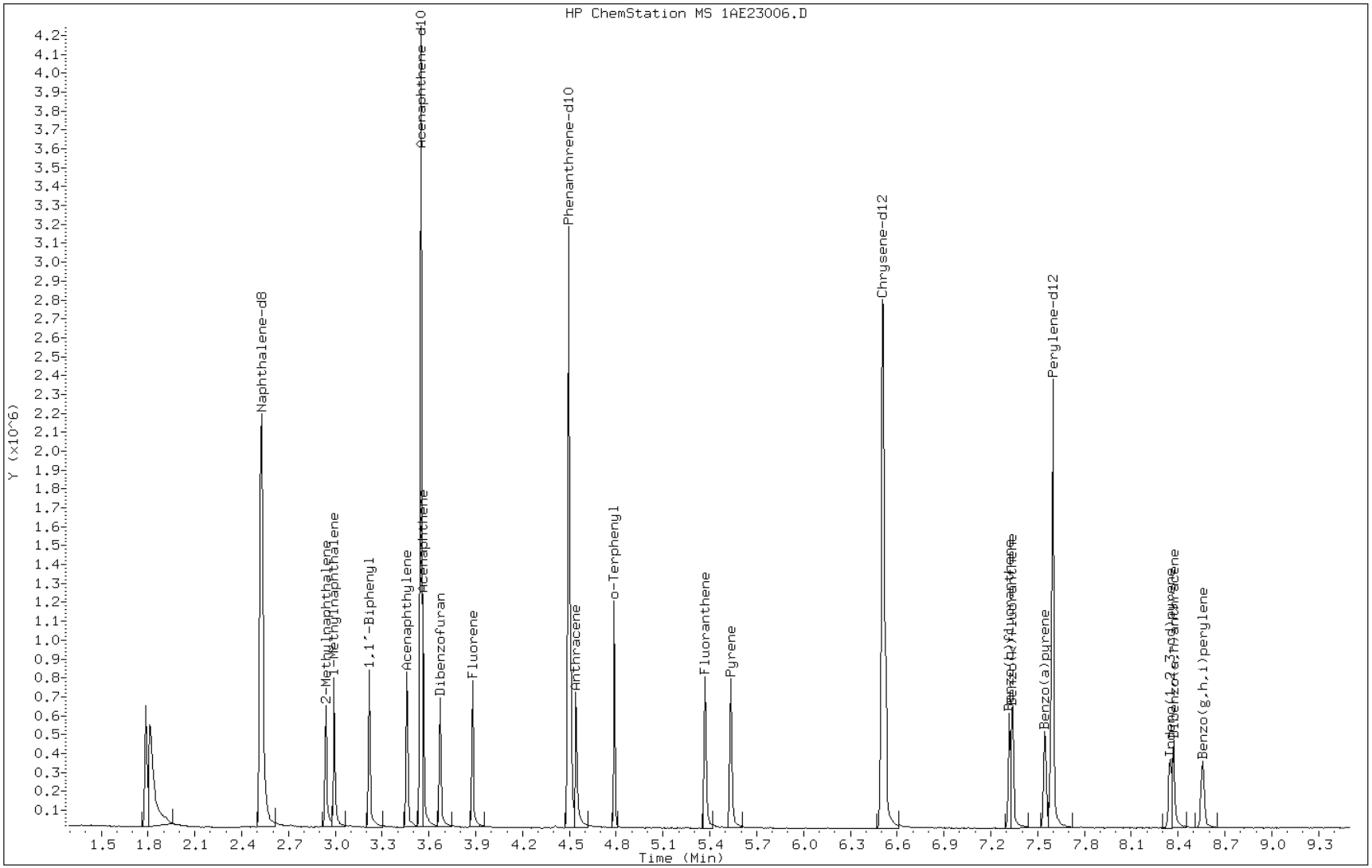
M - Compound response manually integrated.

Data File: 1AE23006.D

Date: 23-MAY-2013 13:36

Client ID: Instrument: BSMA5973.i

Sample Info: IC4 Operator: SCC



Manual Integration Report

Data File: 1AE23006.D
Inj. Date and Time: 23-MAY-2013 13:36
Instrument ID: BSMA5973.i
Client ID:
Compound: 23 Benzo(a)pyrene
CAS #: 50-32-8
Report Date: 05/23/2013

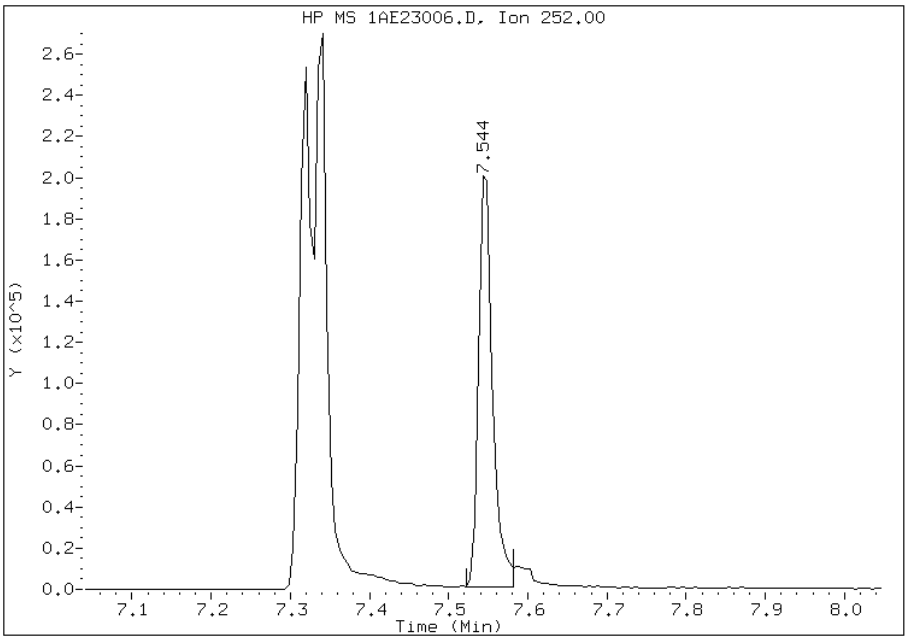
Processing Integration Results

RT: 7.54

Response: 244215

Amount: 10

Conc: 10



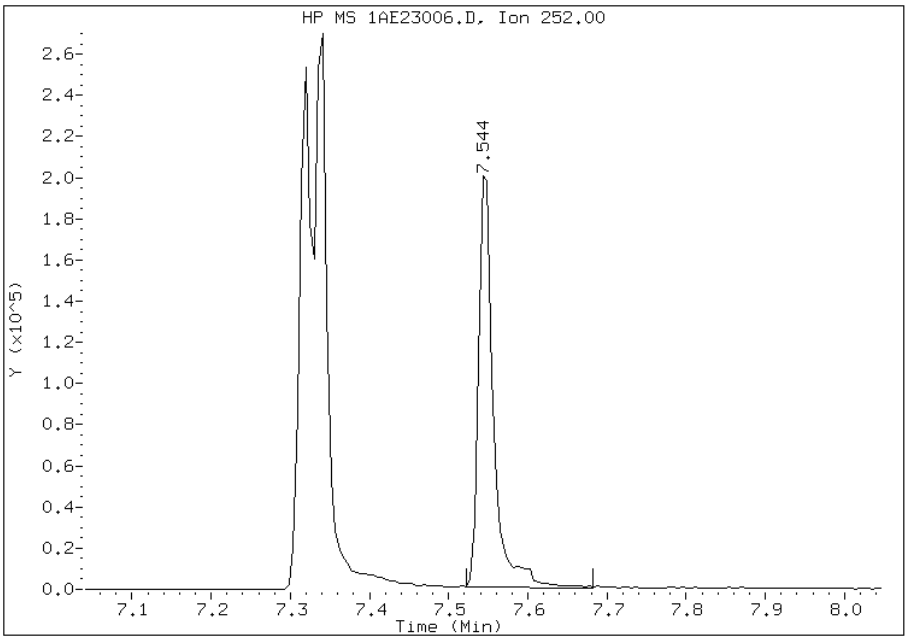
Manual Integration Results

RT: 7.54

Response: 262575

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23006.D
Inj. Date and Time: 23-MAY-2013 13:36
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

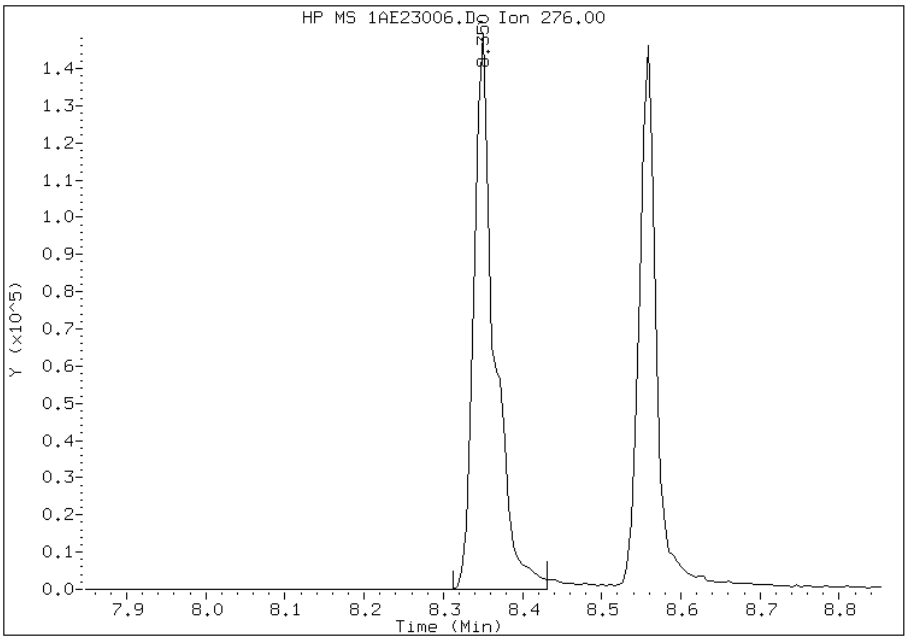
Processing Integration Results

RT: 8.35

Response: 267270

Amount: 11

Conc: 11



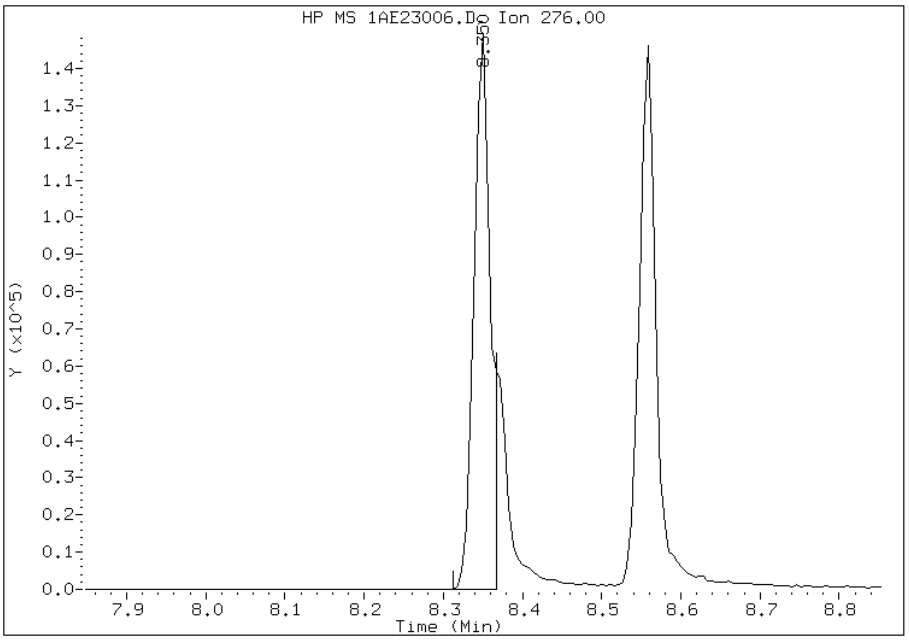
Manual Integration Results

RT: 8.35

Response: 212302

Amount: 9

Conc: 9



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:21
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE23006.D
Inj. Date and Time: 23-MAY-2013 13:36
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/23/2013

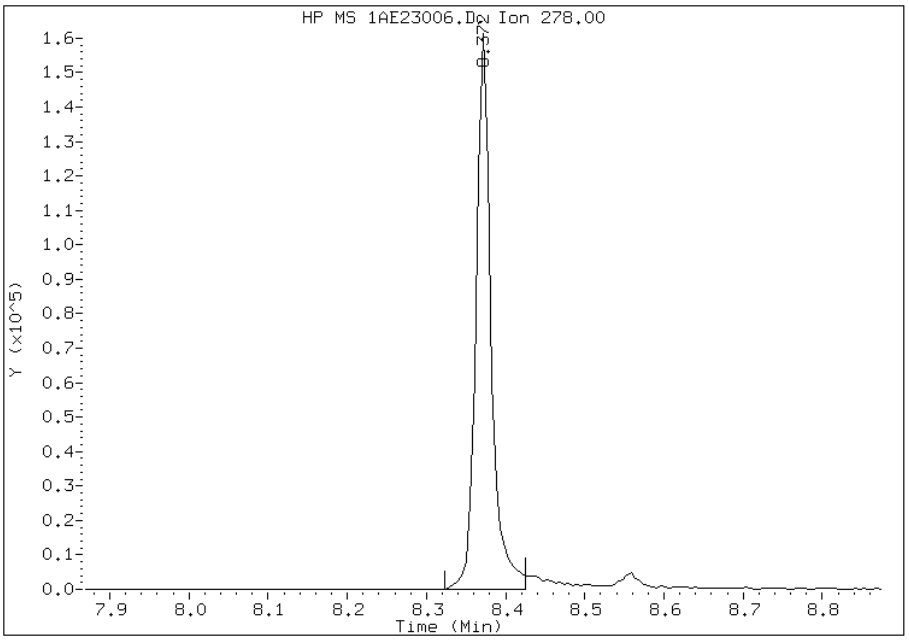
Processing Integration Results

RT: 8.37

Response: 210965

Amount: 10

Conc: 10



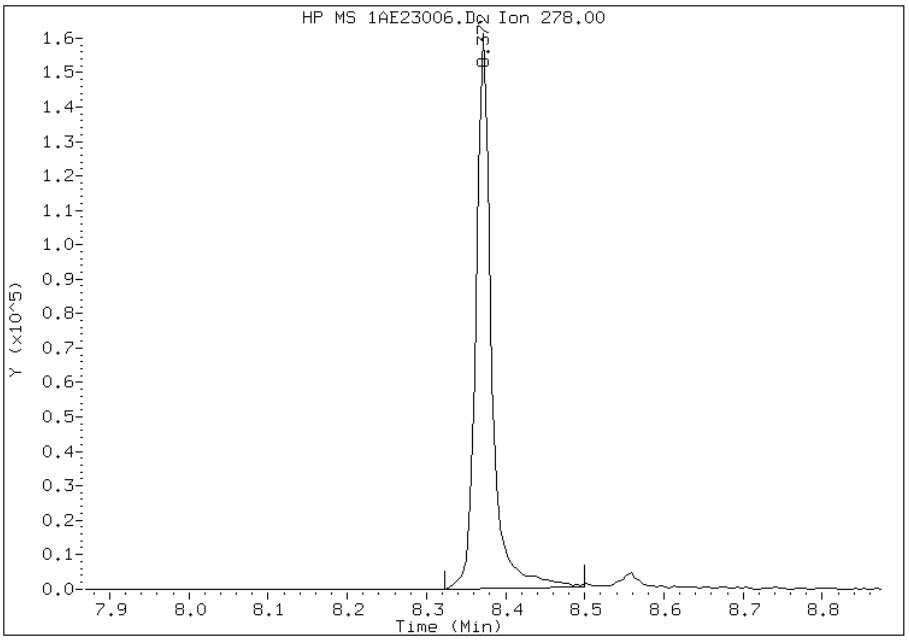
Manual Integration Results

RT: 8.37

Response: 217038

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:21
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23007.D
Lab Smp Id: ICIS
Inj Date : 23-MAY-2013 13:52
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 15:24 BSMA5973.i Quant Type: ISTD
Cal Date : 23-MAY-2013 13:36 Cal File: 1AE23006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.527	2.527	(1.000)	1225593	40.0000	
* 7 Acenaphthene-d10	164	3.548	3.548	(1.000)	677570	40.0000	
* 11 Phenanthrene-d10	188	4.498	4.498	(1.000)	1226779	40.0000	
$ 15 o-Terphenyl	230	4.792	4.792	(1.065)	357347	20.0000	20.1396
* 19 Chrysene-d12	240	6.512	6.512	(1.000)	1124722	40.0000	
* 24 Perylene-d12	264	7.602	7.602	(1.000)	1011274	40.0000	
2 Naphthalene	128	2.538	2.538	(1.004)	560603	20.0000	20.2027
3 2-Methylnaphthalene	141	2.938	2.938	(1.163)	294996	20.0000	22.3276
4 1-Methylnaphthalene	142	2.992	2.992	(1.184)	384376	20.0000	19.9177
5 1,1'-Biphenyl	154	3.216	3.216	(1.273)	463010	20.0000	21.4787
6 Acenaphthylene	152	3.462	3.462	(0.976)	630726	20.0000	21.2746
8 Acenaphthene	154	3.569	3.569	(1.006)	323095	20.0000	20.3901
9 Dibenzofuran	168	3.670	3.670	(1.035)	507750	20.0000	20.9300
10 Fluorene	166	3.879	3.879	(1.093)	396396	20.0000	21.5490
12 Phenanthrene	178	4.509	4.509	(1.002)	546502	20.0000	19.7798
13 Anthracene	178	4.546	4.546	(1.011)	582875	20.0000	20.1658
16 Fluoranthene	202	5.375	5.375	(1.195)	699074	20.0000	20.2648
17 Pyrene	202	5.540	5.540	(0.851)	697125	20.0000	20.5694
18 Benzo(a)anthracene	228	6.502	6.502	(0.998)	619479	20.0000	18.7502
20 Chrysene	228	6.534	6.534	(1.003)	612439	20.0000	20.3979
21 Benzo(b)fluoranthene	252	7.319	7.319	(0.963)	525140	20.0000	20.9285
22 Benzo(k)fluoranthene	252	7.346	7.346	(0.966)	704150	20.0000	20.9283(M)
23 Benzo(a)pyrene	252	7.549	7.549	(0.993)	512618	20.0000	20.7801
25 Indeno(1,2,3-cd)pyrene	276	8.355	8.355	(1.099)	446337	20.0000	20.5781(M)
26 Dibenzo(a,h)anthracene	278	8.377	8.377	(1.102)	443752	20.0000	20.9567(M)
27 Benzo(g,h,i)perylene	276	8.569	8.569	(1.127)	465107	20.0000	21.4343(M)

QC Flag Legend

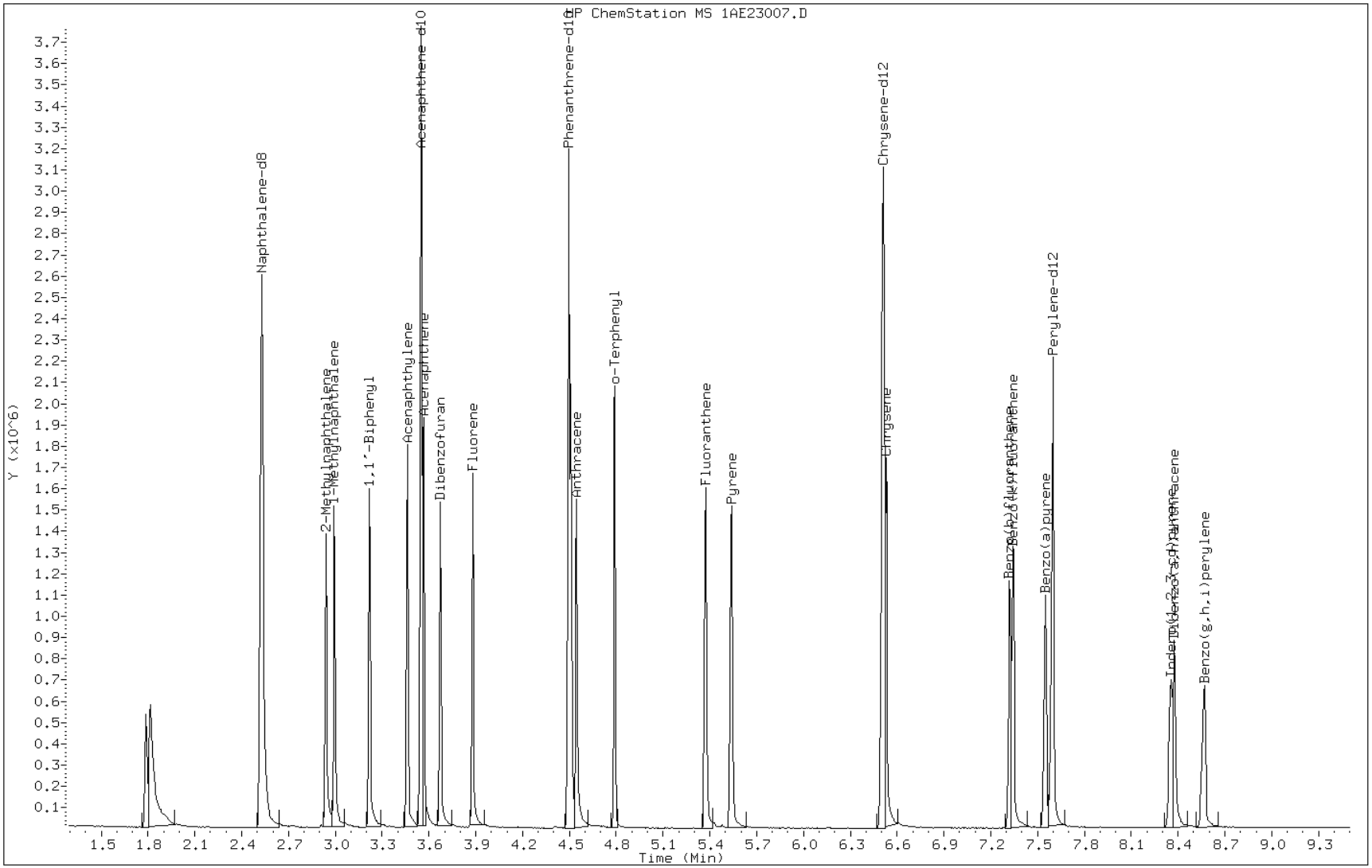
M - Compound response manually integrated.

Data File: 1AE23007.D

Date: 23-MAY-2013 13:52

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS Operator: SCC



Manual Integration Report

Data File: 1AE23007.D
Inj. Date and Time: 23-MAY-2013 13:52
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/23/2013

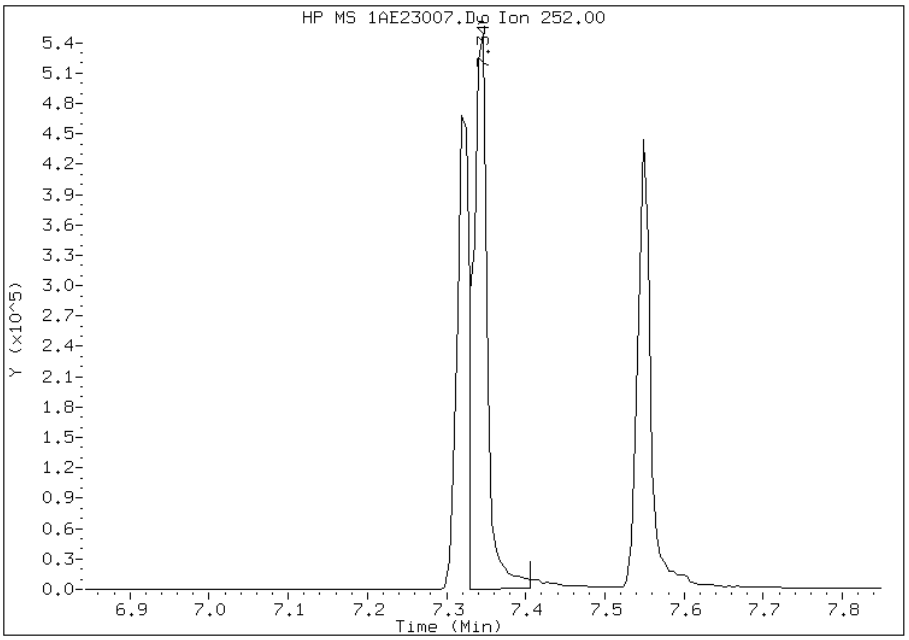
Processing Integration Results

RT: 7.35

Response: 682175

Amount: 20

Conc: 20



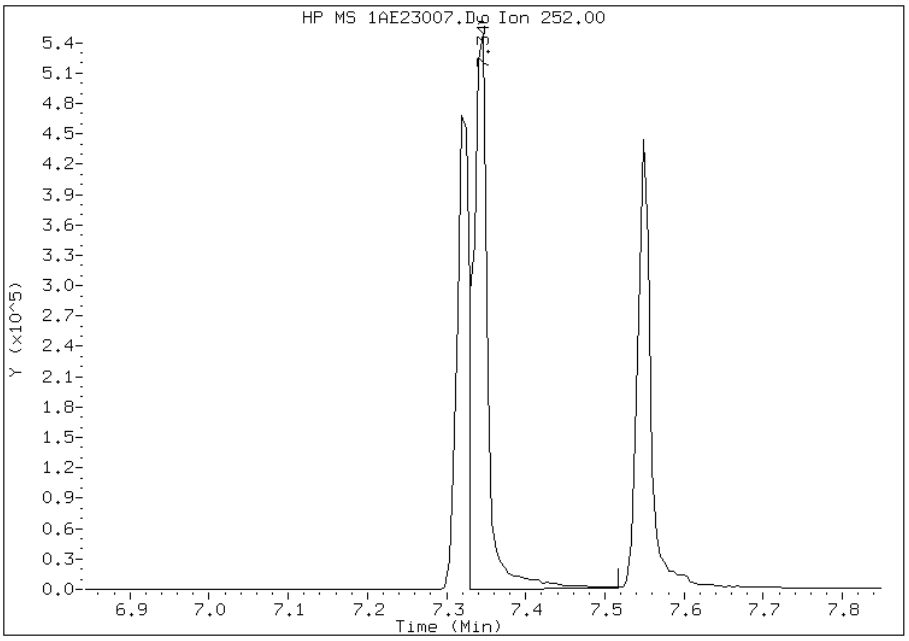
Manual Integration Results

RT: 7.35

Response: 704150

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23007.D
Inj. Date and Time: 23-MAY-2013 13:52
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

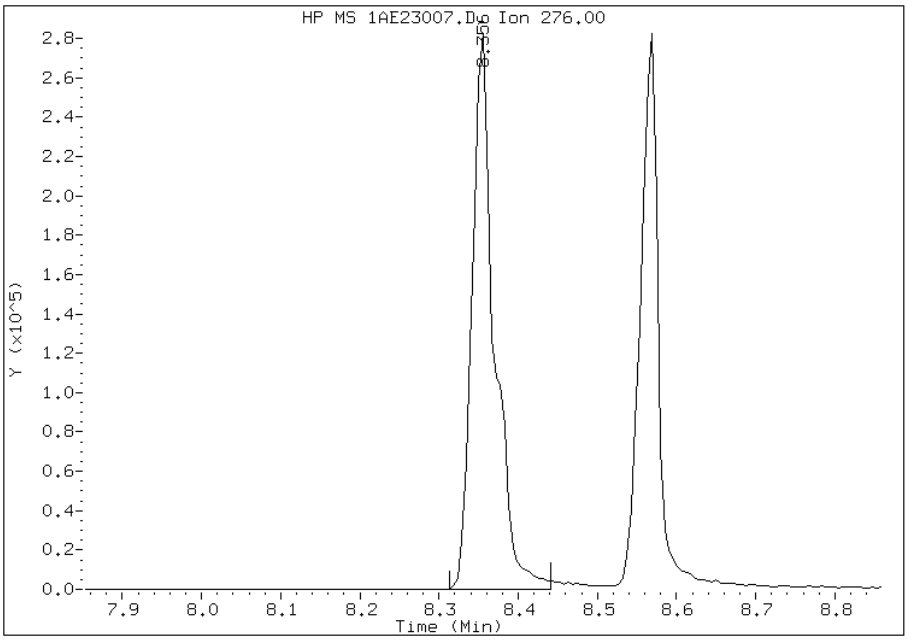
Processing Integration Results

RT: 8.36

Response: 548892

Amount: 23

Conc: 23



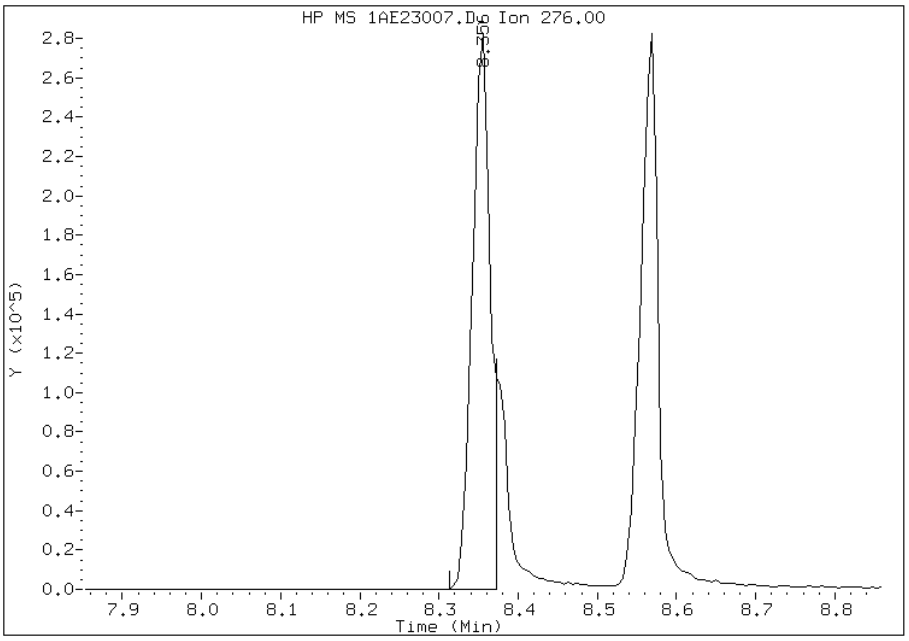
Manual Integration Results

RT: 8.36

Response: 446337

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:08
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE23007.D
Inj. Date and Time: 23-MAY-2013 13:52
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/23/2013

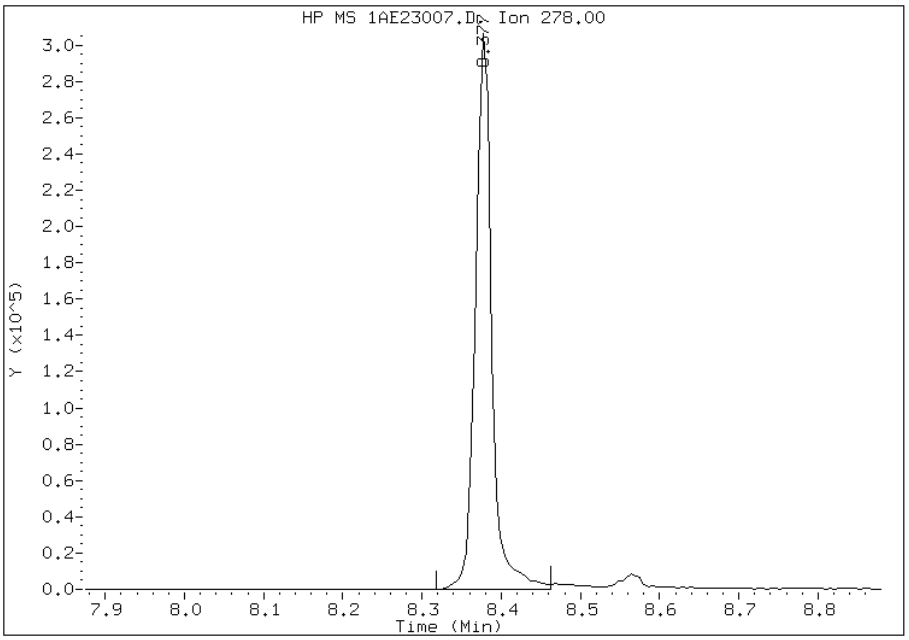
Processing Integration Results

RT: 8.38

Response: 434700

Amount: 19

Conc: 19



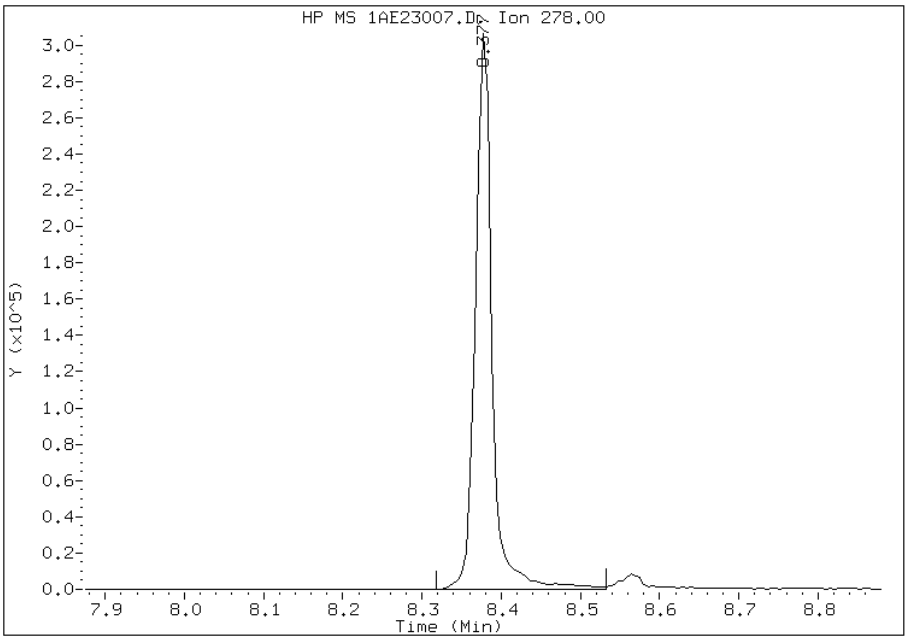
Manual Integration Results

RT: 8.38

Response: 443752

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23007.D
Inj. Date and Time: 23-MAY-2013 13:52
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/23/2013

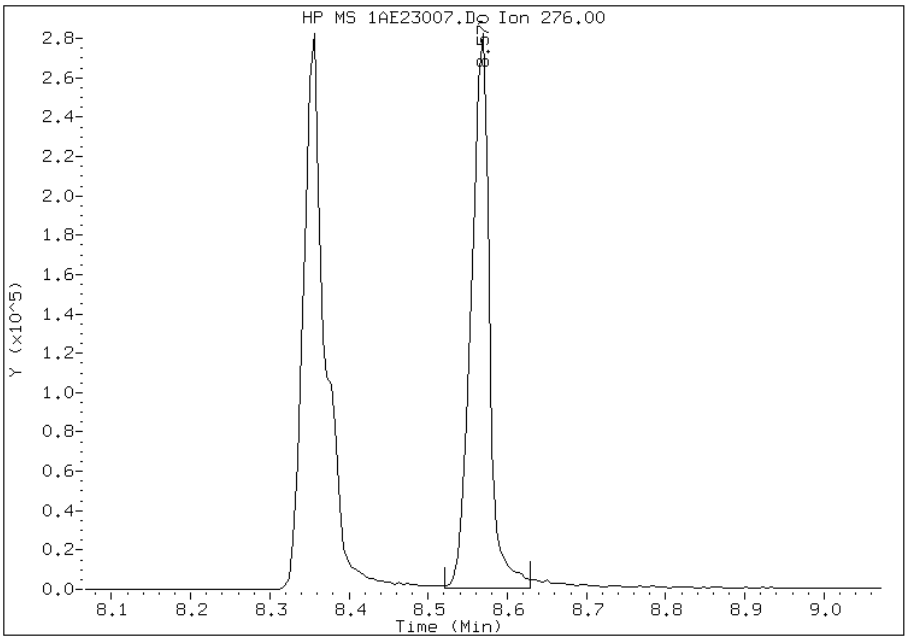
Processing Integration Results

RT: 8.57

Response: 446751

Amount: 18

Conc: 18



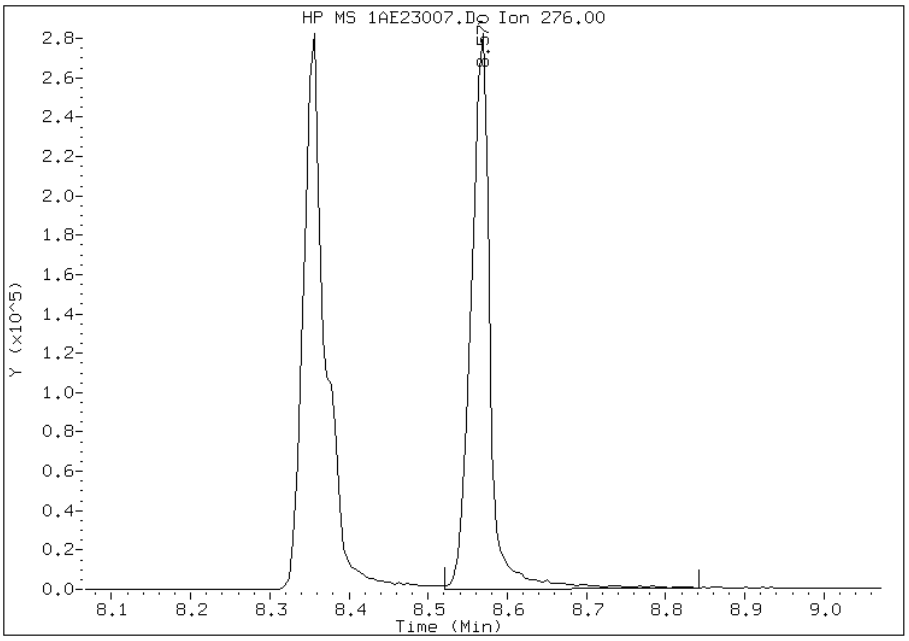
Manual Integration Results

RT: 8.57

Response: 465107

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:08
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23008.D
Lab Smp Id: IC6
Inj Date : 23-MAY-2013 14:07
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC6
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 15:24 BSMA5973.i Quant Type: ISTD
Cal Date : 23-MAY-2013 13:52 Cal File: 1AE23007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.527	2.527	(1.000)	1148218	40.0000	
* 7 Acenaphthene-d10	164	3.547	3.548	(1.000)	634865	40.0000	
* 11 Phenanthrene-d10	188	4.498	4.498	(1.000)	1127082	40.0000	
$ 15 o-Terphenyl	230	4.792	4.792	(1.065)	490290	30.0000	30.0764
* 19 Chrysene-d12	240	6.517	6.512	(1.000)	1157534	40.0000	
* 24 Perylene-d12	264	7.596	7.602	(1.000)	964602	40.0000	
2 Naphthalene	128	2.537	2.538	(1.004)	771759	30.0000	29.6865
3 2-Methylnaphthalene	141	2.938	2.938	(1.163)	394152	30.0000	31.8428
4 1-Methylnaphthalene	142	2.997	2.992	(1.186)	501360	30.0000	27.7304
5 1,1'-Biphenyl	154	3.221	3.216	(1.275)	617501	30.0000	30.5757
6 Acenaphthylene	152	3.462	3.462	(0.976)	808511	30.0000	29.1058
8 Acenaphthene	154	3.569	3.569	(1.006)	434674	30.0000	29.2769
9 Dibenzofuran	168	3.675	3.670	(1.036)	670801	30.0000	29.5111
10 Fluorene	166	3.884	3.879	(1.095)	510806	30.0000	29.6366
12 Phenanthrene	178	4.514	4.509	(1.004)	765052	30.0000	30.1392
13 Anthracene	178	4.546	4.546	(1.011)	788422	30.0000	29.6899
16 Fluoranthene	202	5.374	5.375	(1.195)	1063362	30.0000	33.5515
17 Pyrene	202	5.540	5.540	(0.850)	1055562	30.0000	30.2626
18 Benzo(a)anthracene	228	6.501	6.502	(0.998)	981619	30.0000	28.8691
20 Chrysene	228	6.533	6.534	(1.002)	893518	30.0000	28.9159
21 Benzo(b)fluoranthene	252	7.324	7.319	(0.964)	882593	30.0000	36.8760
22 Benzo(k)fluoranthene	252	7.345	7.346	(0.967)	996400	30.0000	31.0473
23 Benzo(a)pyrene	252	7.548	7.549	(0.994)	788336	30.0000	33.5031
25 Indeno(1,2,3-cd)pyrene	276	8.350	8.355	(1.099)	737791	30.0000	35.6614(M)
26 Dibenzo(a,h)anthracene	278	8.376	8.377	(1.103)	710982	30.0000	35.2017
27 Benzo(g,h,i)perylene	276	8.569	8.569	(1.128)	690132	30.0000	33.3434

QC Flag Legend

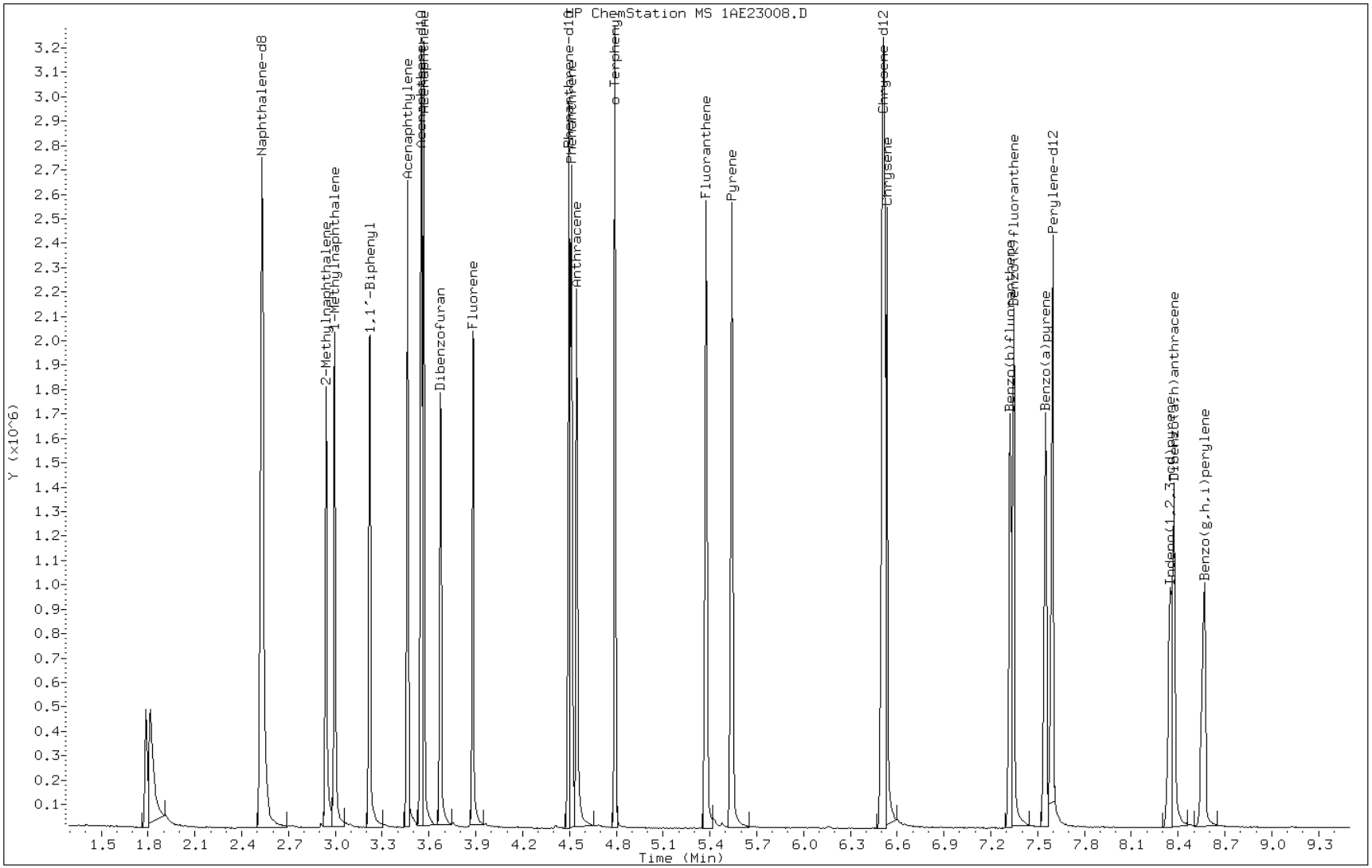
M - Compound response manually integrated.

Data File: 1AE23008.D

Date: 23-MAY-2013 14:07

Client ID: Instrument: BSMA5973.i

Sample Info: IC6 Operator: SCC



Manual Integration Report

Data File: 1AE23008.D
Inj. Date and Time: 23-MAY-2013 14:07
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

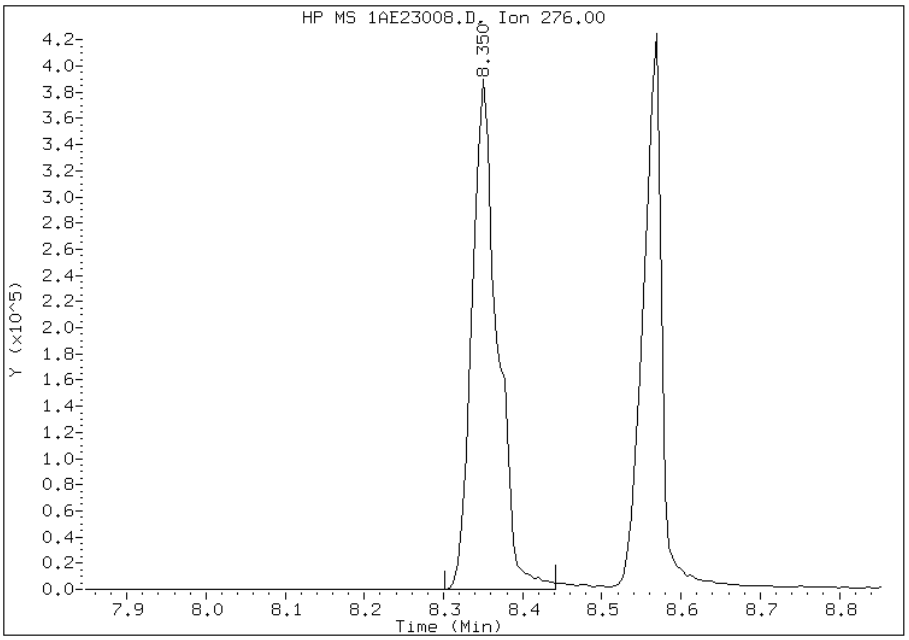
Processing Integration Results

RT: 8.35

Response: 864142

Amount: 38

Conc: 38



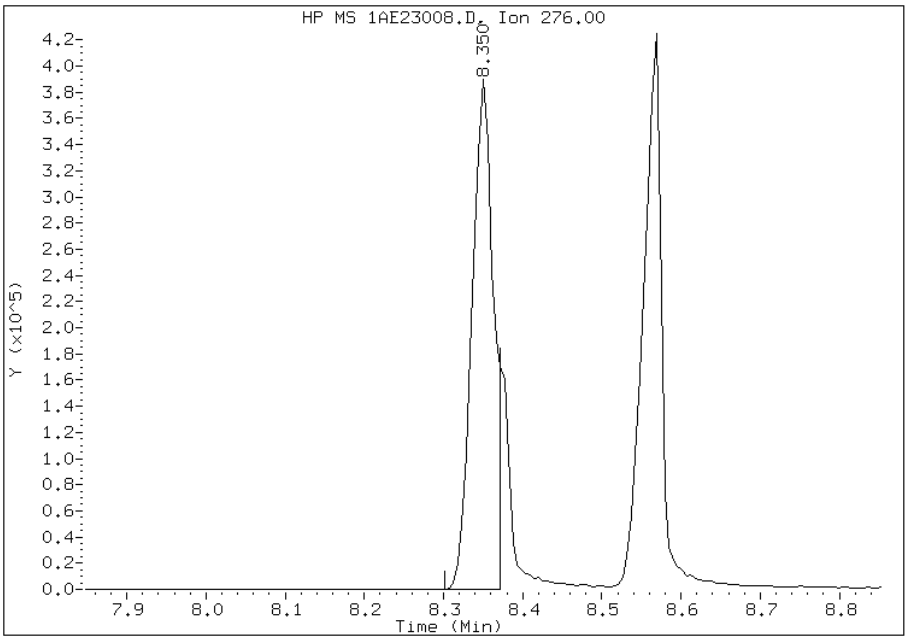
Manual Integration Results

RT: 8.35

Response: 737791

Amount: 36

Conc: 36



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:20
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23009.D
Lab Smp Id: IC7
Inj Date : 23-MAY-2013 14:22
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC7
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 15:24 BSMA5973.i Quant Type: ISTD
Cal Date : 23-MAY-2013 14:07 Cal File: 1AE23008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.528	2.527	(1.000)	1105637	40.0000	
* 7 Acenaphthene-d10	164	3.548	3.548	(1.000)	607648	40.0000	
* 11 Phenanthrene-d10	188	4.499	4.498	(1.000)	1090491	40.0000	
$ 15 o-Terphenyl	230	4.793	4.792	(1.065)	823523	50.0000	52.2134(A)
* 19 Chrysene-d12	240	6.519	6.512	(1.000)	1136032	40.0000	
* 24 Perylene-d12	264	7.603	7.602	(1.000)	1004032	40.0000	
2 Naphthalene	128	2.539	2.538	(1.004)	1280321	50.0000	51.1456(A)
3 2-Methylnaphthalene	141	2.939	2.938	(1.163)	685933	50.0000	57.5495(A)
4 1-Methylnaphthalene	142	2.998	2.992	(1.186)	849768	50.0000	48.8111
5 1,1'-Biphenyl	154	3.223	3.216	(1.275)	1069731	50.0000	55.0080(A)
6 Acenaphthylene	152	3.463	3.462	(0.976)	1340229	50.0000	50.4083(A)
8 Acenaphthene	154	3.570	3.569	(1.006)	760793	50.0000	53.5374(A)
9 Dibenzofuran	168	3.677	3.670	(1.036)	1198945	50.0000	55.1088(AM)
10 Fluorene	166	3.885	3.879	(1.095)	882399	50.0000	53.4892(A)
12 Phenanthrene	178	4.515	4.509	(1.004)	1282695	50.0000	52.2273(A)
13 Anthracene	178	4.553	4.546	(1.012)	1318603	50.0000	51.3214(A)
16 Fluoranthene	202	5.381	5.375	(1.196)	1609879	50.0000	52.4998(AM)
17 Pyrene	202	5.546	5.540	(0.851)	1740175	50.0000	50.8345(AM)
18 Benzo(a)anthracene	228	6.508	6.502	(0.998)	1601449	50.0000	47.9896
20 Chrysene	228	6.540	6.534	(1.003)	1576406	50.0000	51.9811(AM)
21 Benzo(b)fluoranthene	252	7.331	7.319	(0.964)	1598808	50.0000	64.1772(A)
22 Benzo(k)fluoranthene	252	7.357	7.346	(0.968)	1645861	50.0000	49.2701(M)
23 Benzo(a)pyrene	252	7.560	7.549	(0.994)	1379638	50.0000	56.3300(A)
25 Indeno(1,2,3-cd)pyrene	276	8.372	8.355	(1.101)	1297265	50.0000	60.2413(AM)
26 Dibenzo(a,h)anthracene	278	8.388	8.377	(1.103)	1284475	50.0000	61.0986(A)
27 Benzo(g,h,i)perylene	276	8.586	8.569	(1.129)	1188762	50.0000	55.1790(AM)

QC Flag Legend

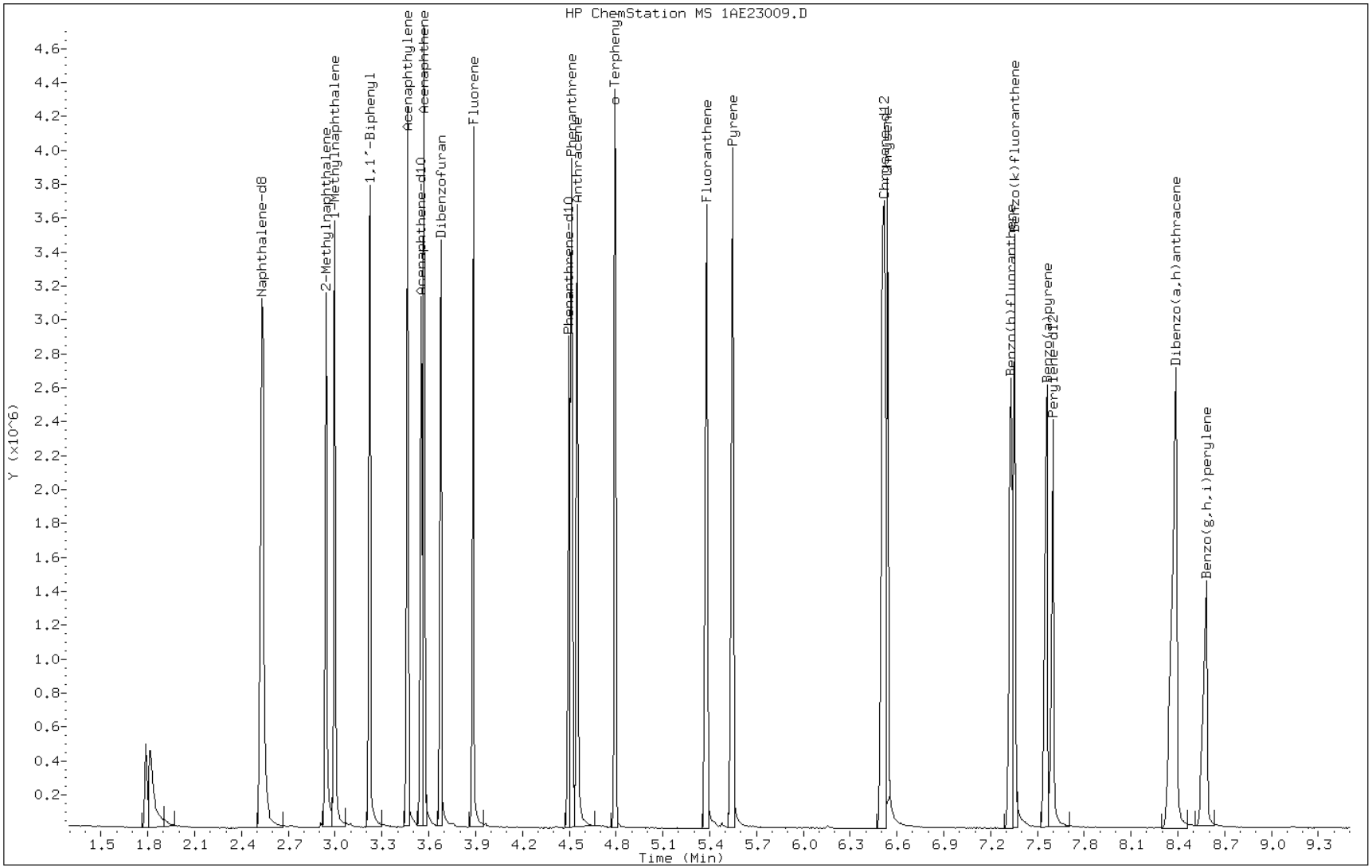
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1AE23009.D

Date: 23-MAY-2013 14:22

Client ID: Instrument: BSMA5973.i

Sample Info: IC7 Operator: SCC



Manual Integration Report

Data File: 1AE23009.D
Inj. Date and Time: 23-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID:
Compound: 9 Dibenzofuran
CAS #: 132-64-9
Report Date: 05/23/2013

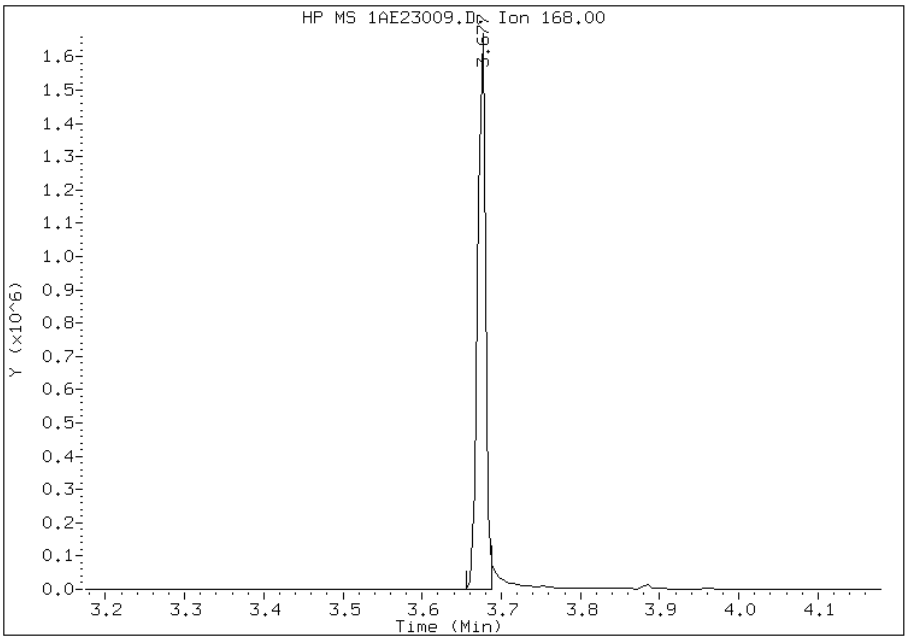
Processing Integration Results

RT: 3.68

Response: 1118636

Amount: 52

Conc: 52



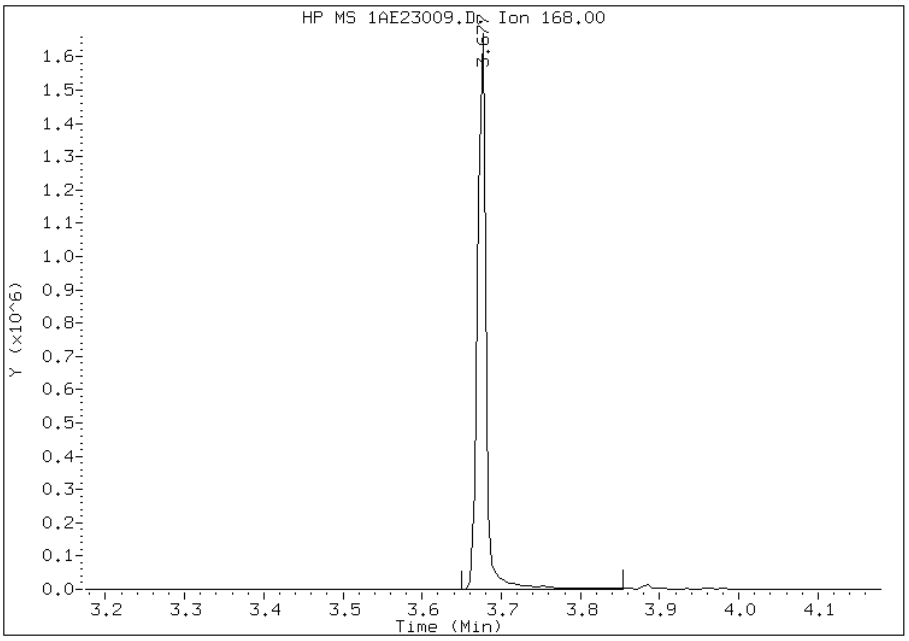
Manual Integration Results

RT: 3.68

Response: 1198945

Amount: 55

Conc: 55



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23009.D
Inj. Date and Time: 23-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID:
Compound: 16 Fluoranthene
CAS #: 206-44-0
Report Date: 05/23/2013

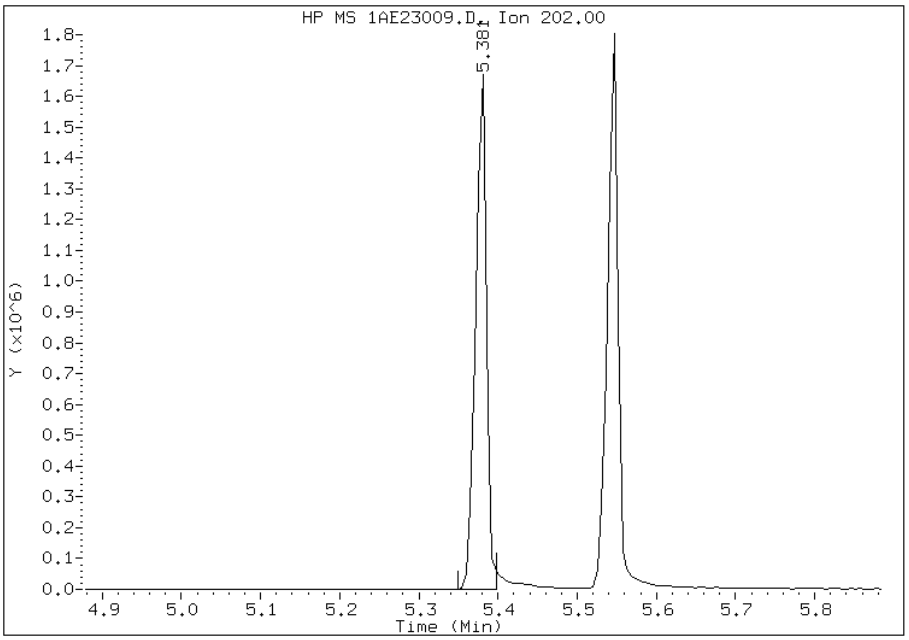
Processing Integration Results

RT: 5.38

Response: 1542304

Amount: 51

Conc: 51



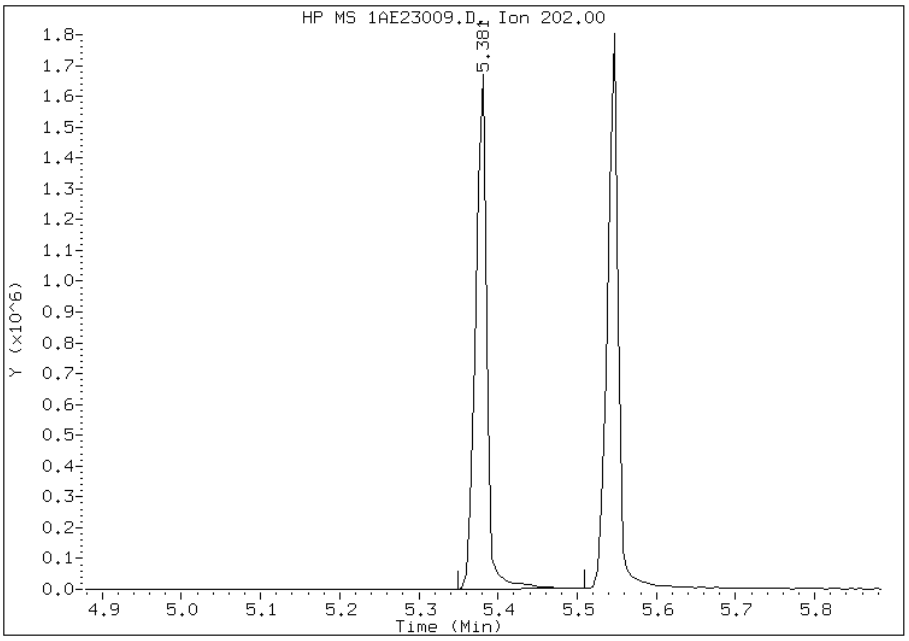
Manual Integration Results

RT: 5.38

Response: 1609879

Amount: 52

Conc: 52



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23009.D
Inj. Date and Time: 23-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID:
Compound: 17 Pyrene
CAS #: 129-00-0
Report Date: 05/23/2013

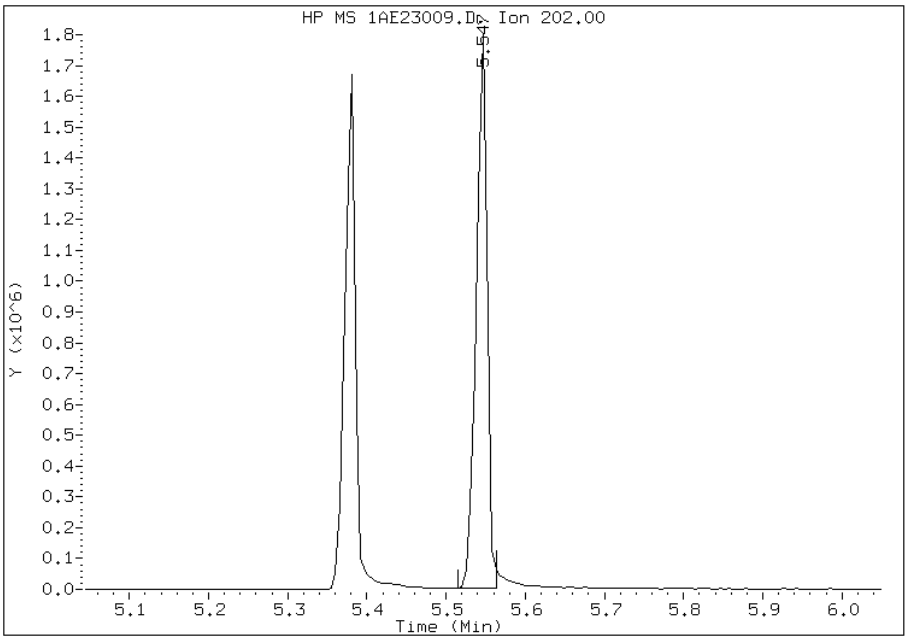
Processing Integration Results

RT: 5.55

Response: 1660017

Amount: 49

Conc: 49



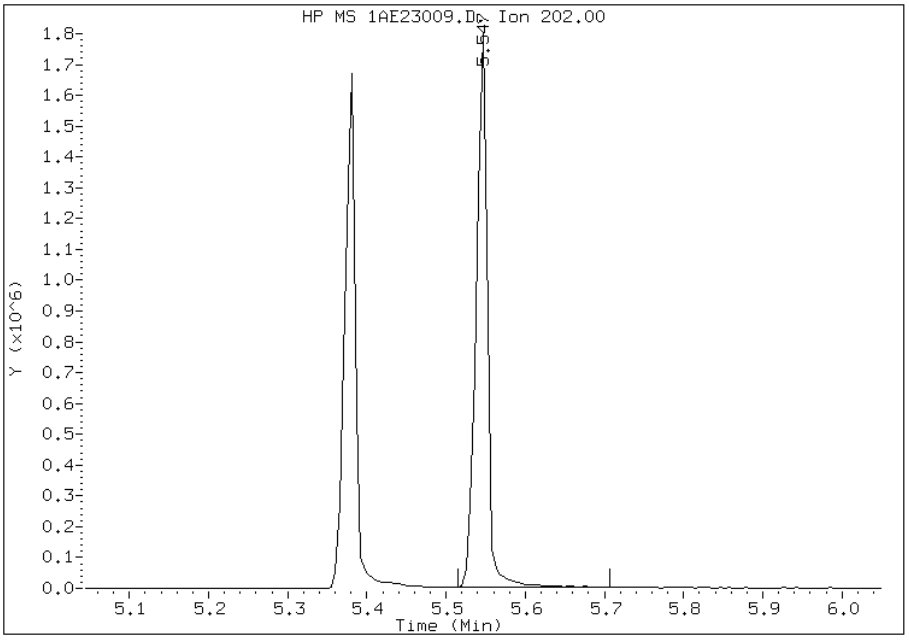
Manual Integration Results

RT: 5.55

Response: 1740175

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23009.D
Inj. Date and Time: 23-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID:
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 05/23/2013

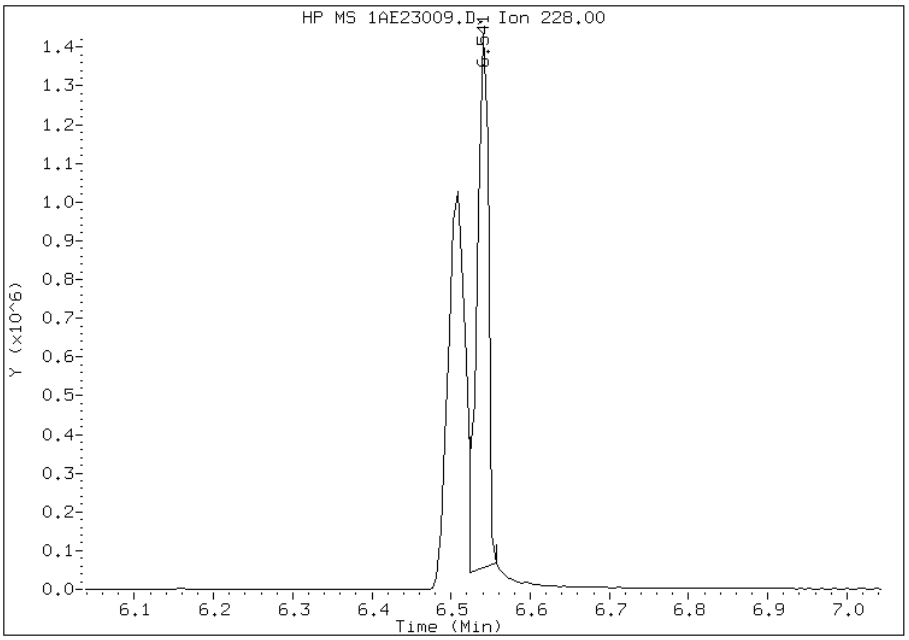
Processing Integration Results

RT: 6.54

Response: 1351932

Amount: 46

Conc: 46



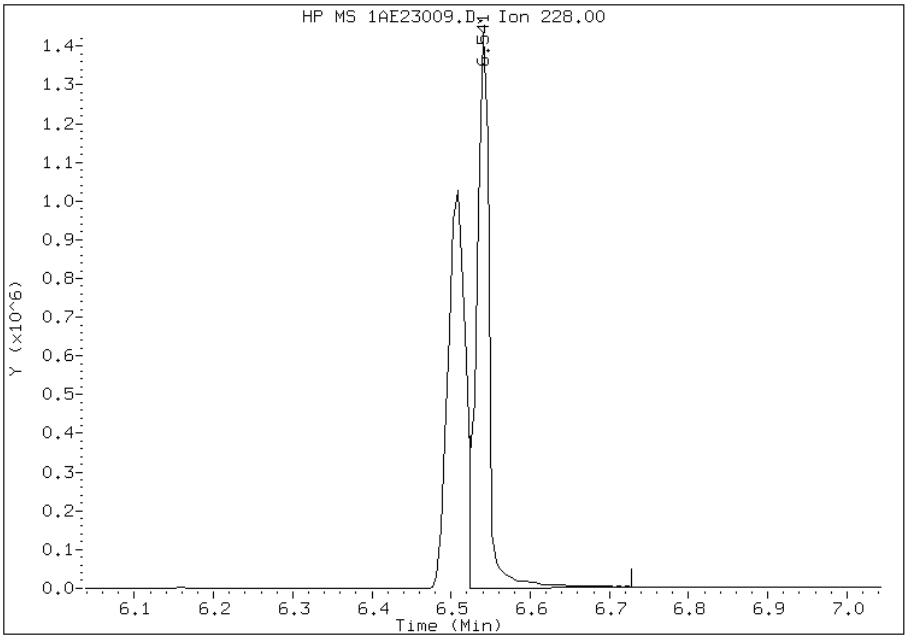
Manual Integration Results

RT: 6.54

Response: 1576406

Amount: 52

Conc: 52



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23009.D
Inj. Date and Time: 23-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/23/2013

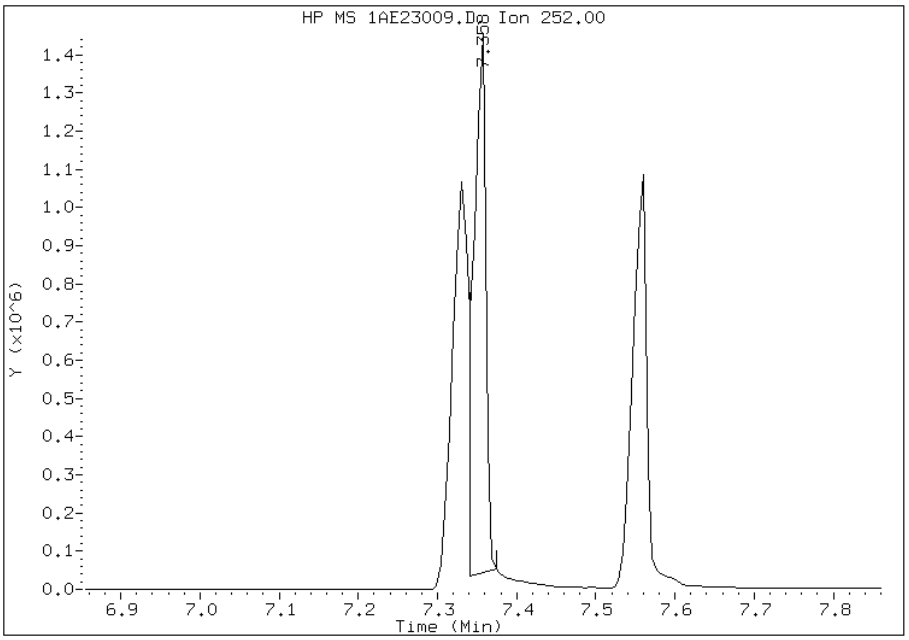
Processing Integration Results

RT: 7.36

Response: 1463035

Amount: 45

Conc: 45



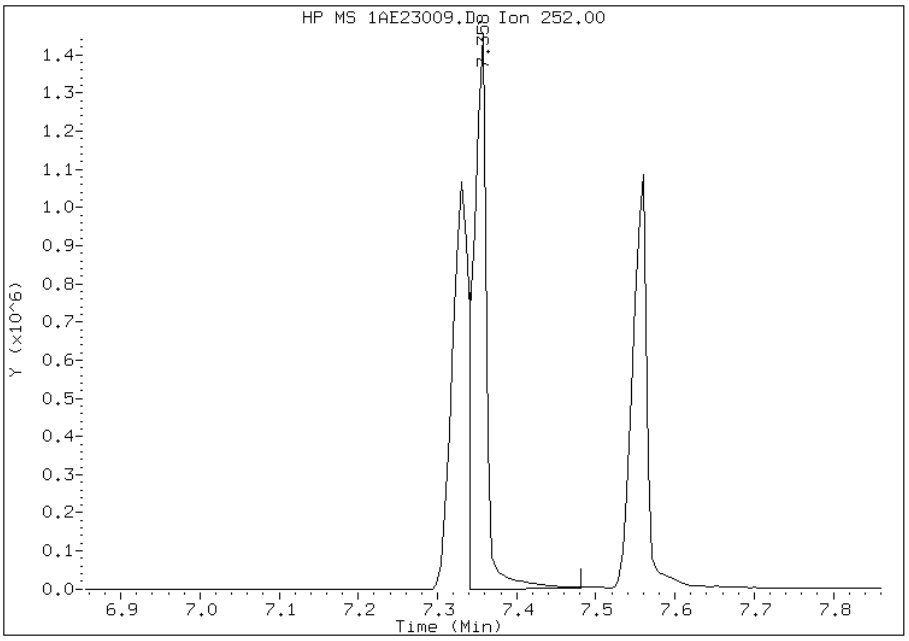
Manual Integration Results

RT: 7.36

Response: 1645861

Amount: 49

Conc: 49



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23009.D
Inj. Date and Time: 23-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

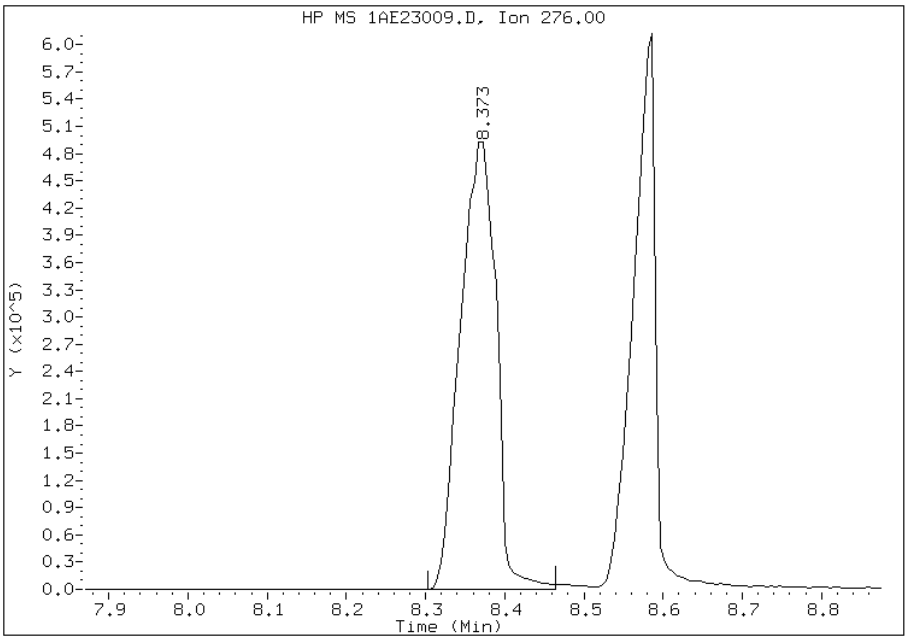
Processing Integration Results

RT: 8.37

Response: 1539152

Amount: 63

Conc: 63



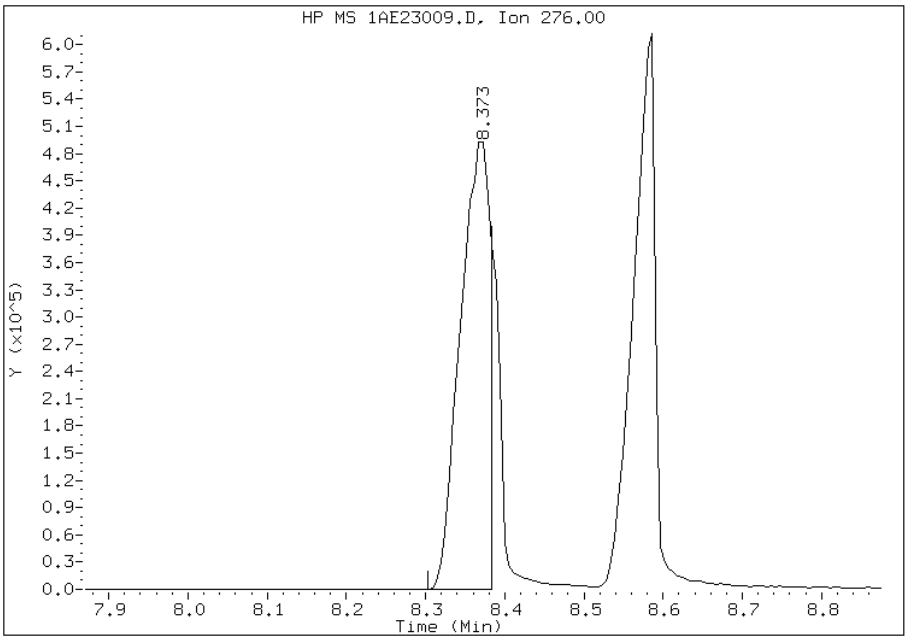
Manual Integration Results

RT: 8.37

Response: 1297265

Amount: 60

Conc: 60



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE23009.D
Inj. Date and Time: 23-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/23/2013

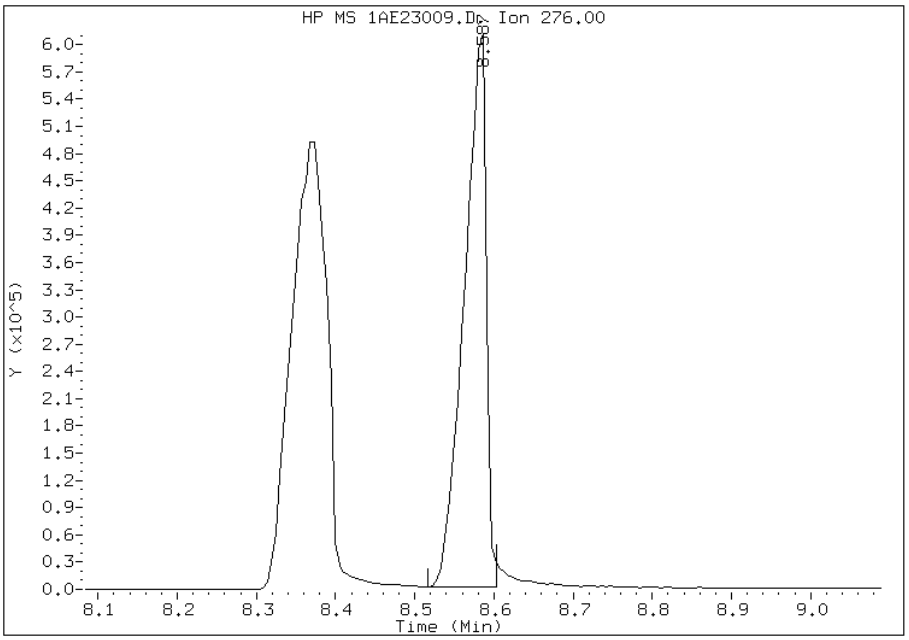
Processing Integration Results

RT: 8.59

Response: 1153917

Amount: 55

Conc: 55



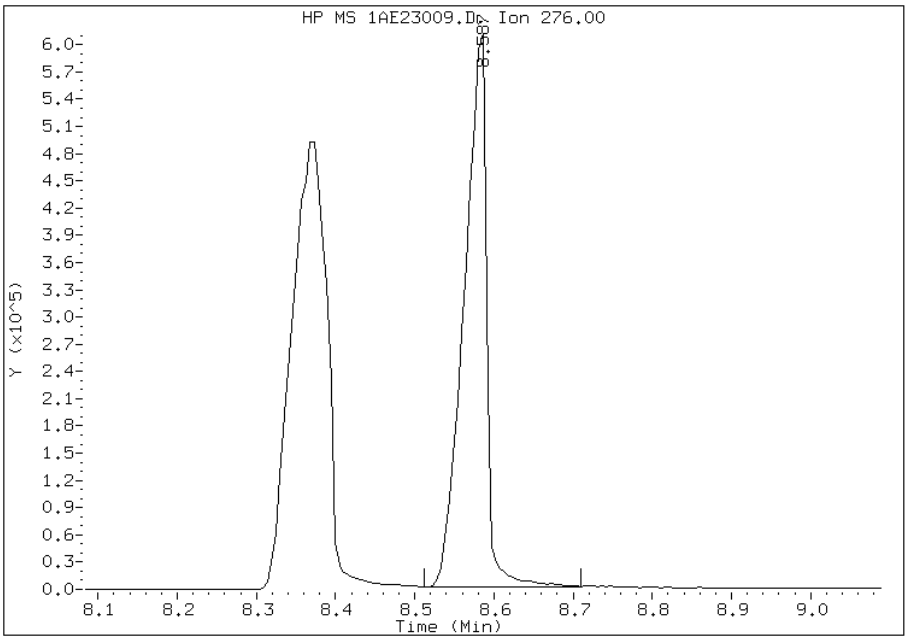
Manual Integration Results

RT: 8.59

Response: 1188762

Amount: 55

Conc: 55



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:19
Manual Integration Reason: Baseline Event

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

Lab Name: TestAmerica Tampa Job No.: 680-90622-2 Analy Batch No.: 137830

SDG No.: 68090622-2

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.: 680-90622-2 Analy Batch No.: 137830

SDG No.: 68090622-2

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.: 680-90622-2 Analy Batch No.: 137830

SDG No.: 68090622-2

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.: 680-90622-2 Analy Batch No.: 137830

SDG No.: 68090622-2

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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS 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

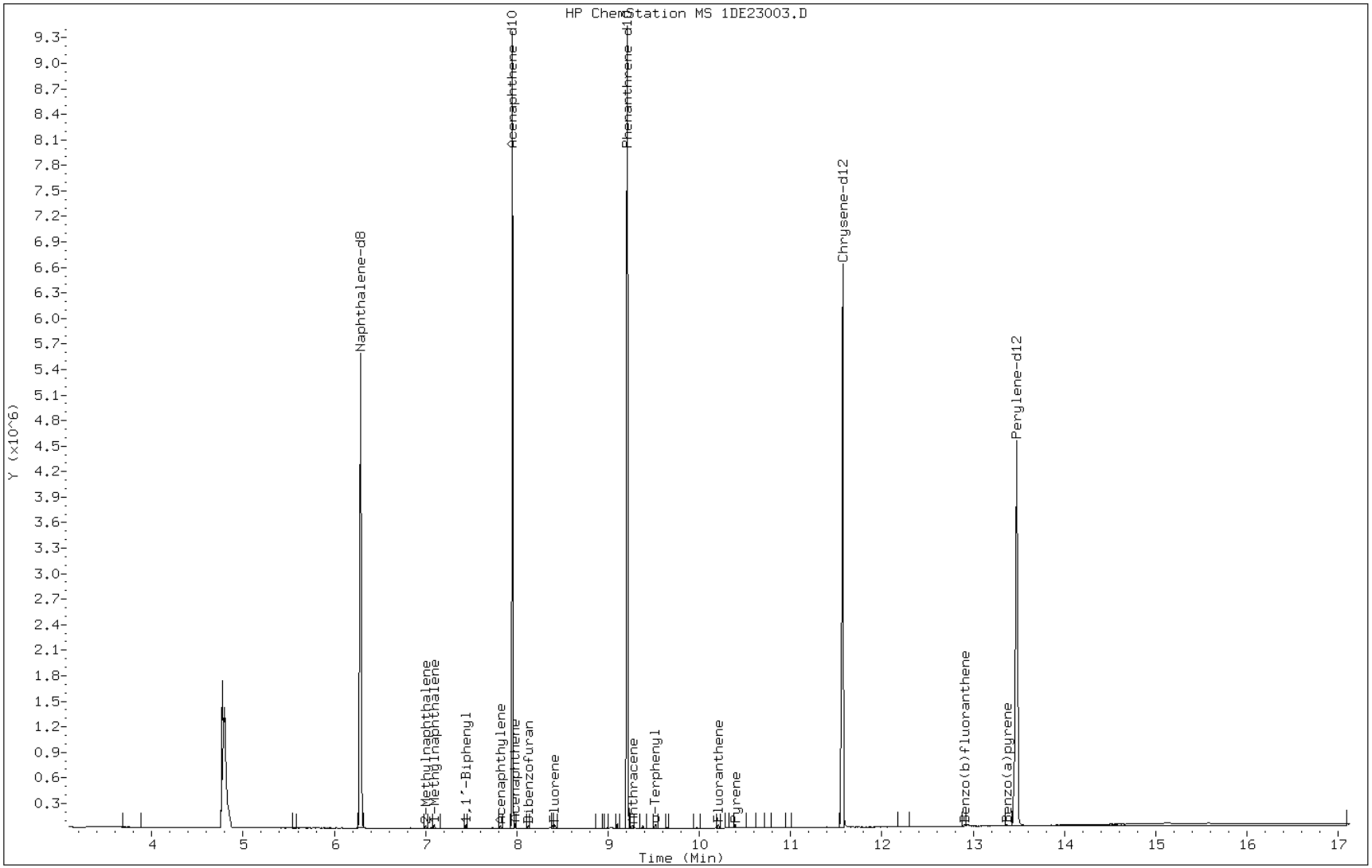
Date: 23-MAY-2013 13:03

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

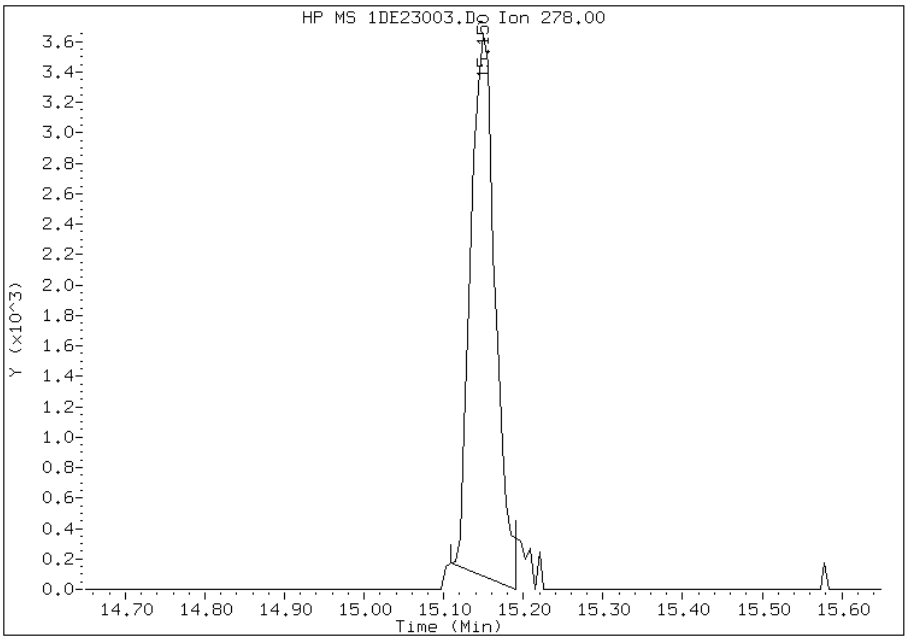
Processing Integration Results

RT: 15.15

Response: 7611

Amount: 0

Conc: 0



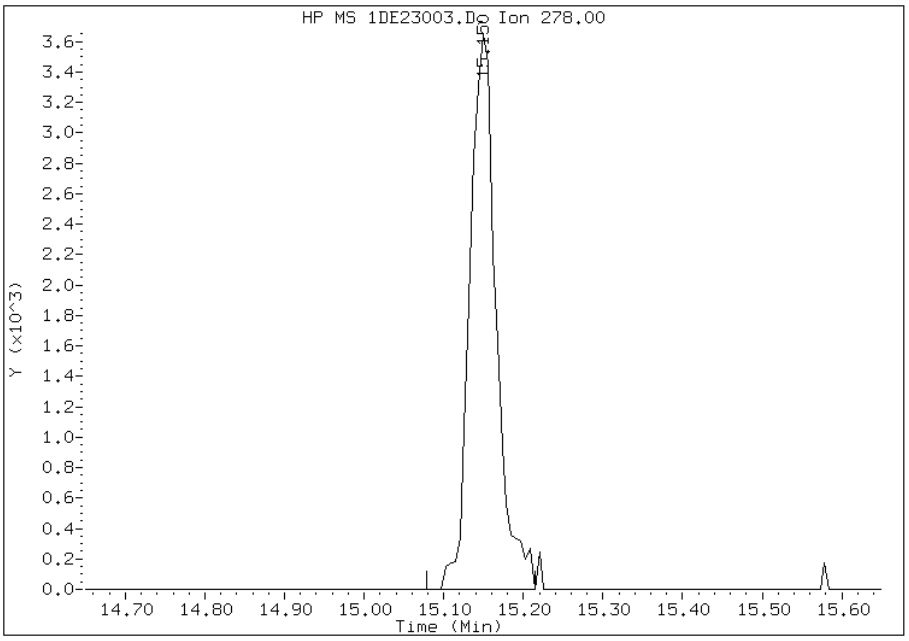
Manual Integration Results

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

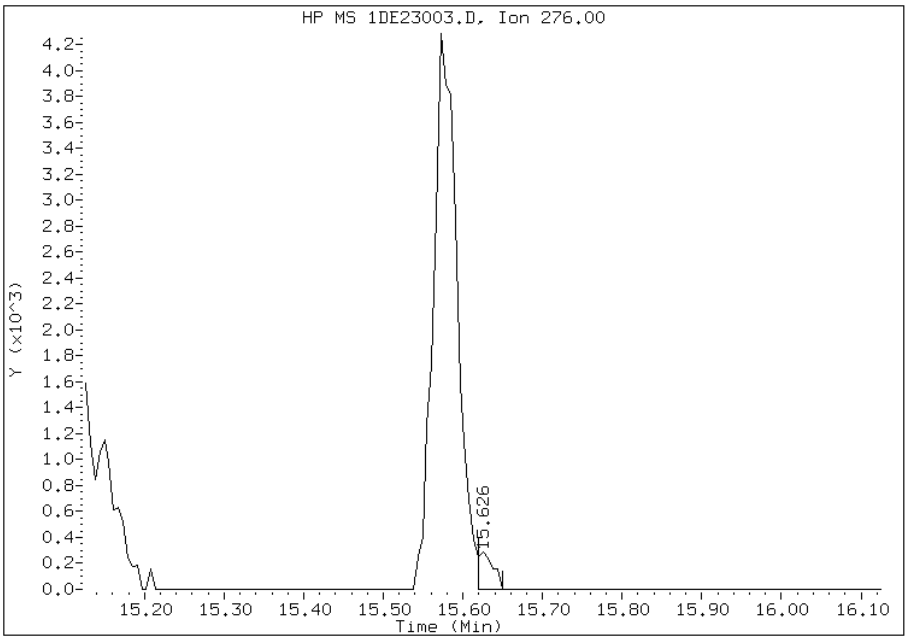
Processing Integration Results

RT: 15.63

Response: 387

Amount: 0

Conc: 0



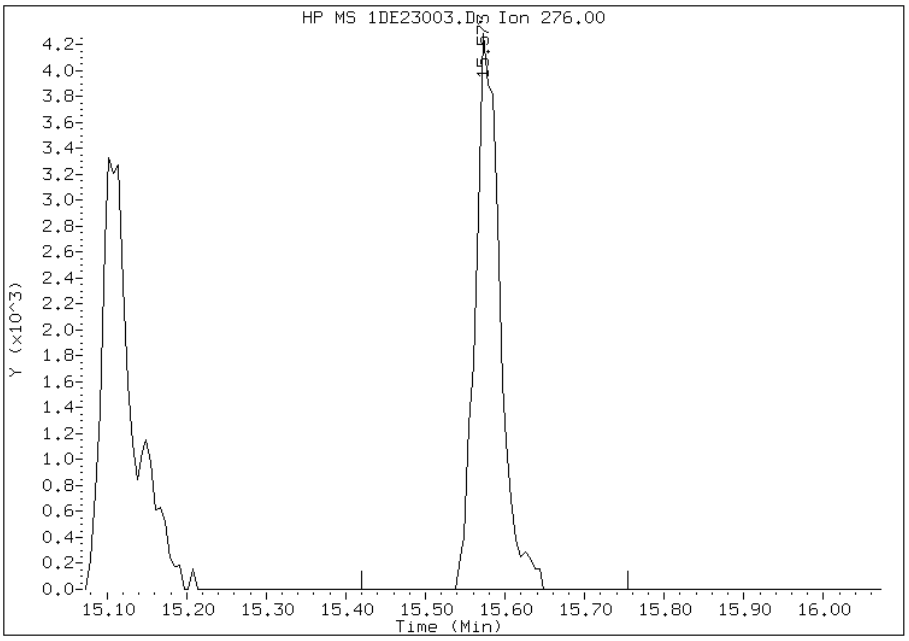
Manual Integration Results

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 Inst ID: BSMSD.i
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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS 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

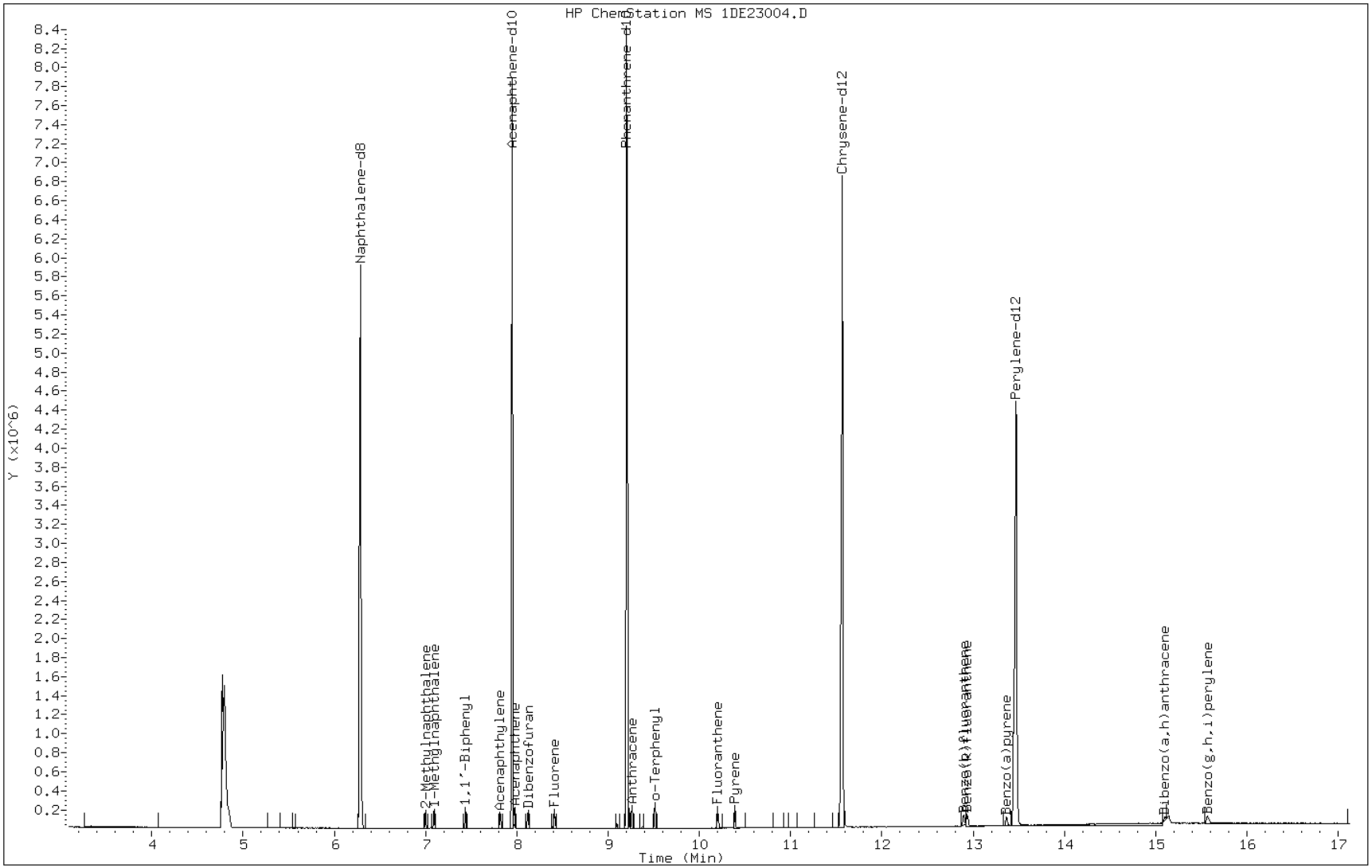
H - Operator selected an alternate compound hit.

Data File: 1DE23004.D

Date: 23-MAY-2013 13:26

Client ID: Instrument: BSMSD.i

Sample Info: IC2 Operator: SCC



TestAmerica Laboratories

Semivolatile 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 Inst ID: BSMSD.i
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 Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.280	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

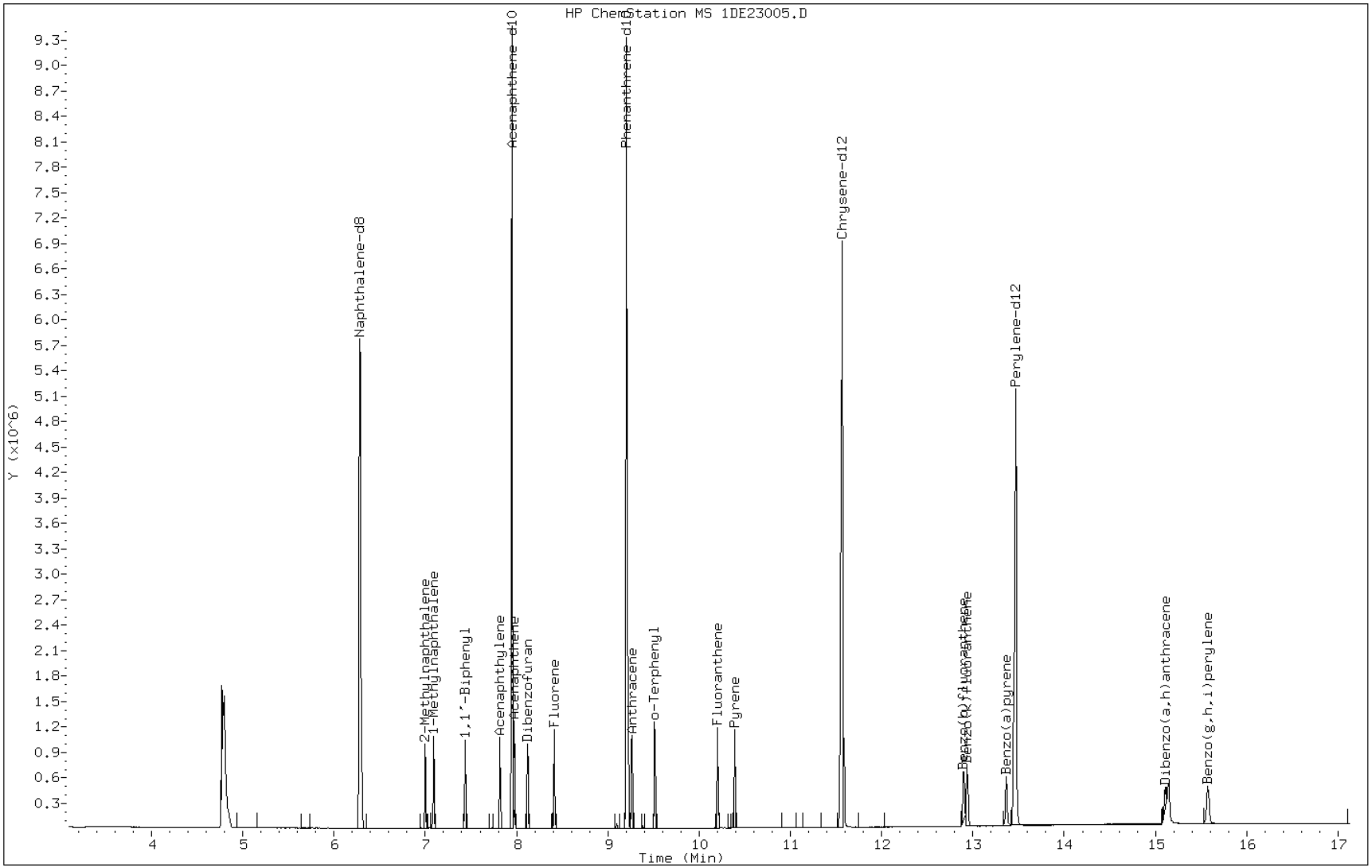
H - Operator selected an alternate compound hit.

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 Inst ID: BSMSD.i
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 Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

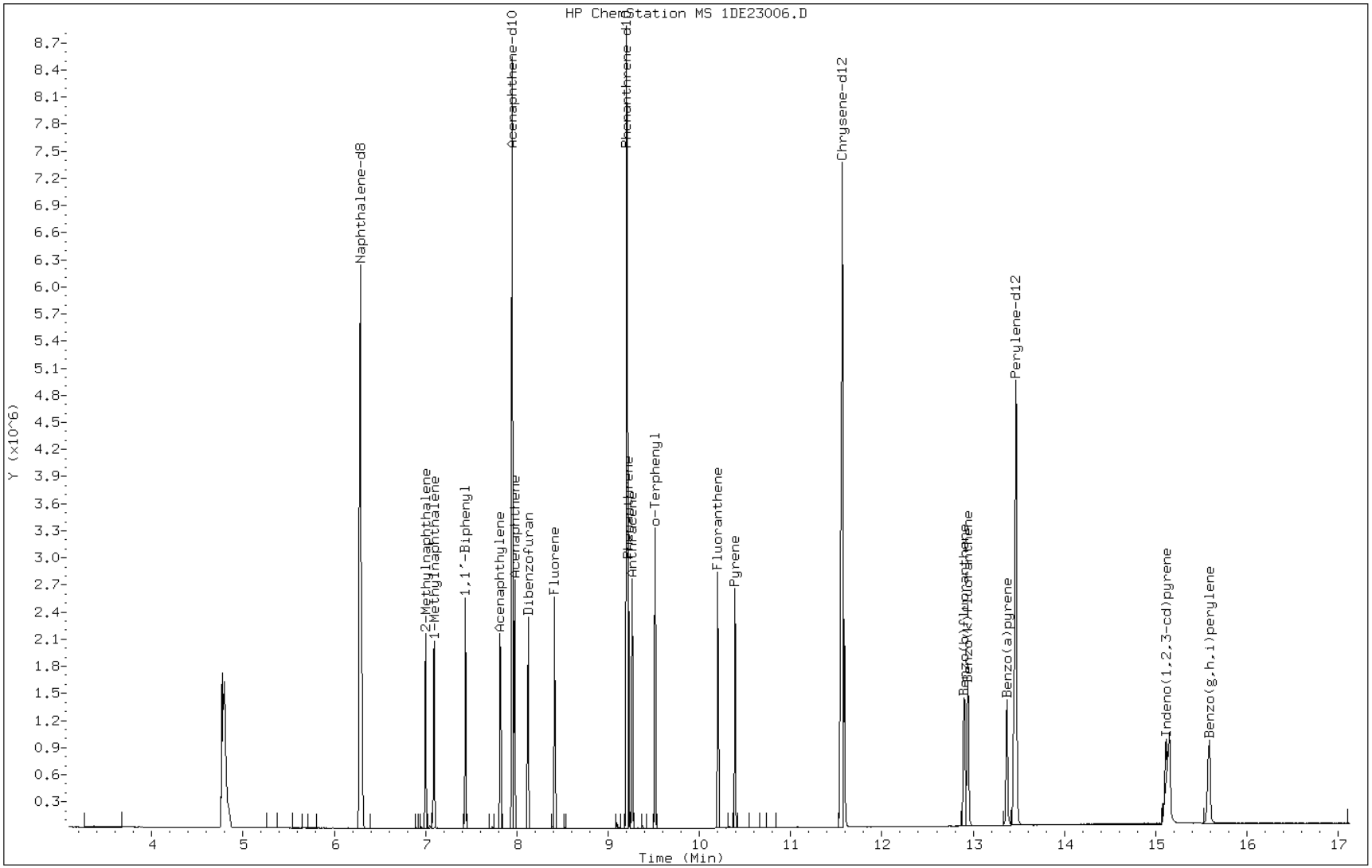
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.284	6.284	(1.000)	3084725	40.0000	
*	7 Acenaphthene-d10	164	7.946	7.946	(1.000)	1752742	40.0000	
*	11 Phenanthrene-d10	188	9.204	9.204	(1.000)	2929857	40.0000	
$	15 o-Terphenyl	230	9.515	9.515	(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 Inst ID: BSMSD.i
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 Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

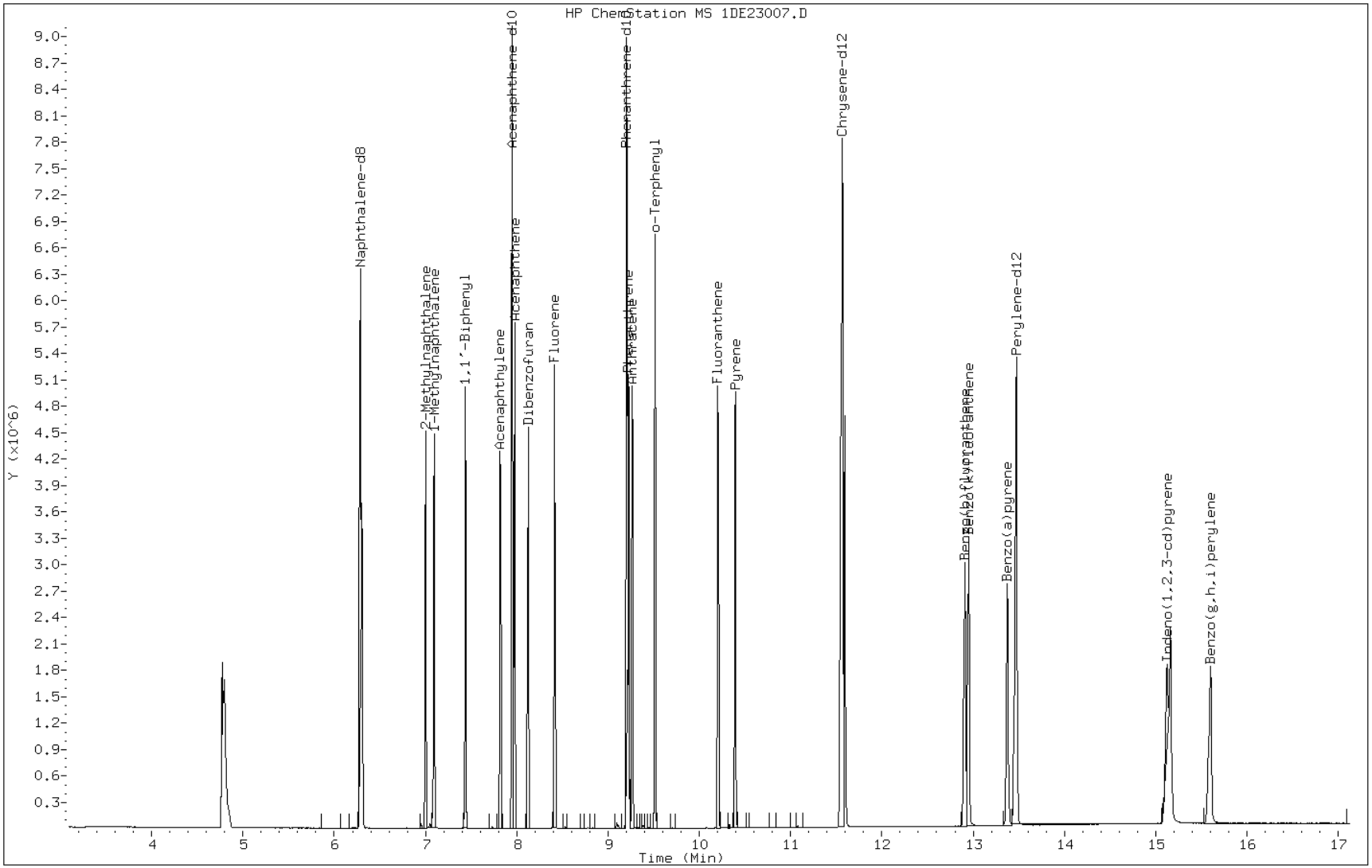
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.284	6.284	(1.000)	3209942	40.0000	
*	7 Acenaphthene-d10	164	7.947	7.947	(1.000)	1824950	40.0000	
*	11 Phenanthrene-d10	188	9.204	9.204	(1.000)	3071098	40.0000	
$	15 o-Terphenyl	230	9.515	9.515	(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

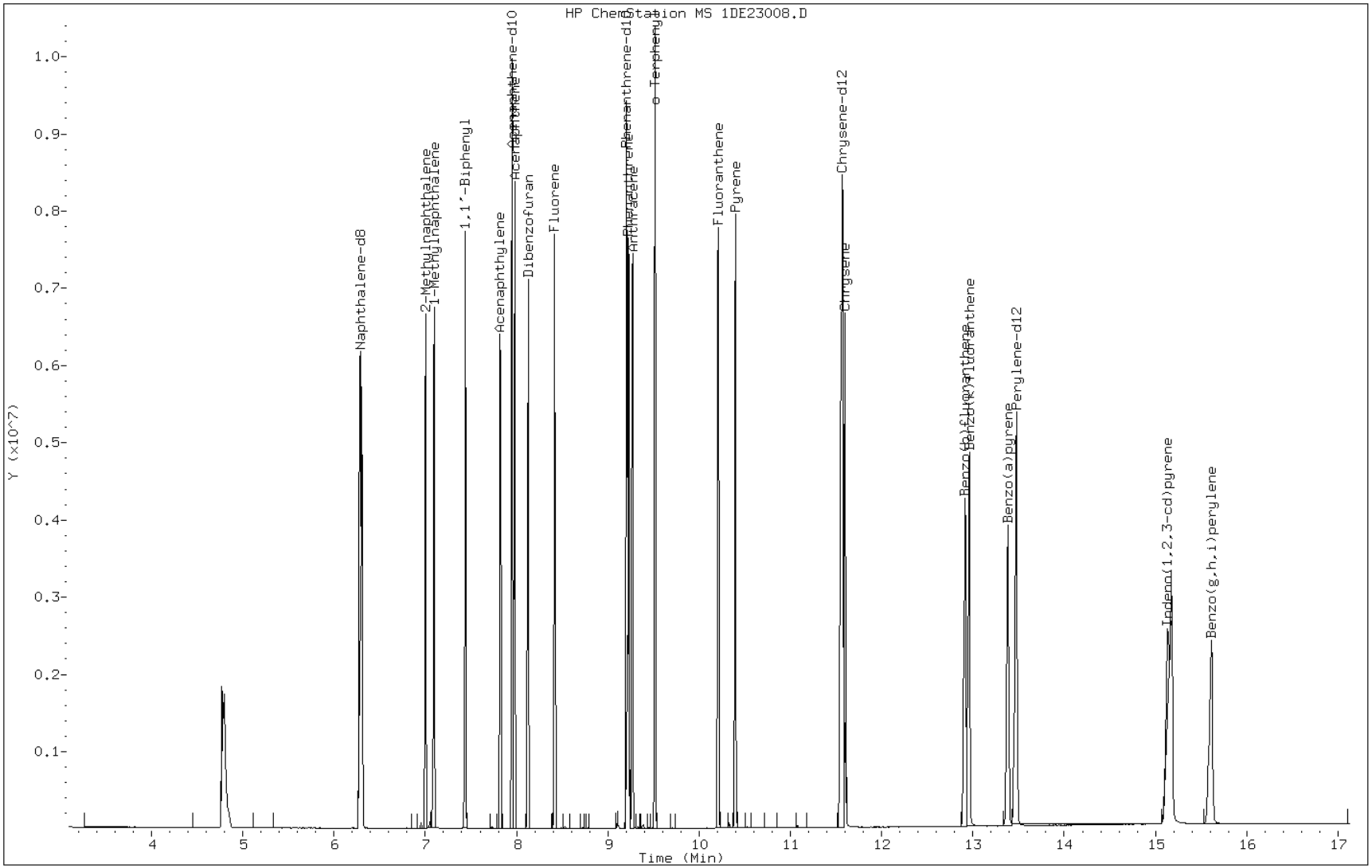
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.286	6.286	(1.000)	3364617	40.0000	
*	7 Acenaphthene-d10	164	7.949	7.949	(1.000)	1886585	40.0000	
*	11 Phenanthrene-d10	188	9.206	9.206	(1.000)	3193681	40.0000	
$	15 o-Terphenyl	230	9.518	9.518	(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



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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 Inst ID: BSMSD.i
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 Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.283	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

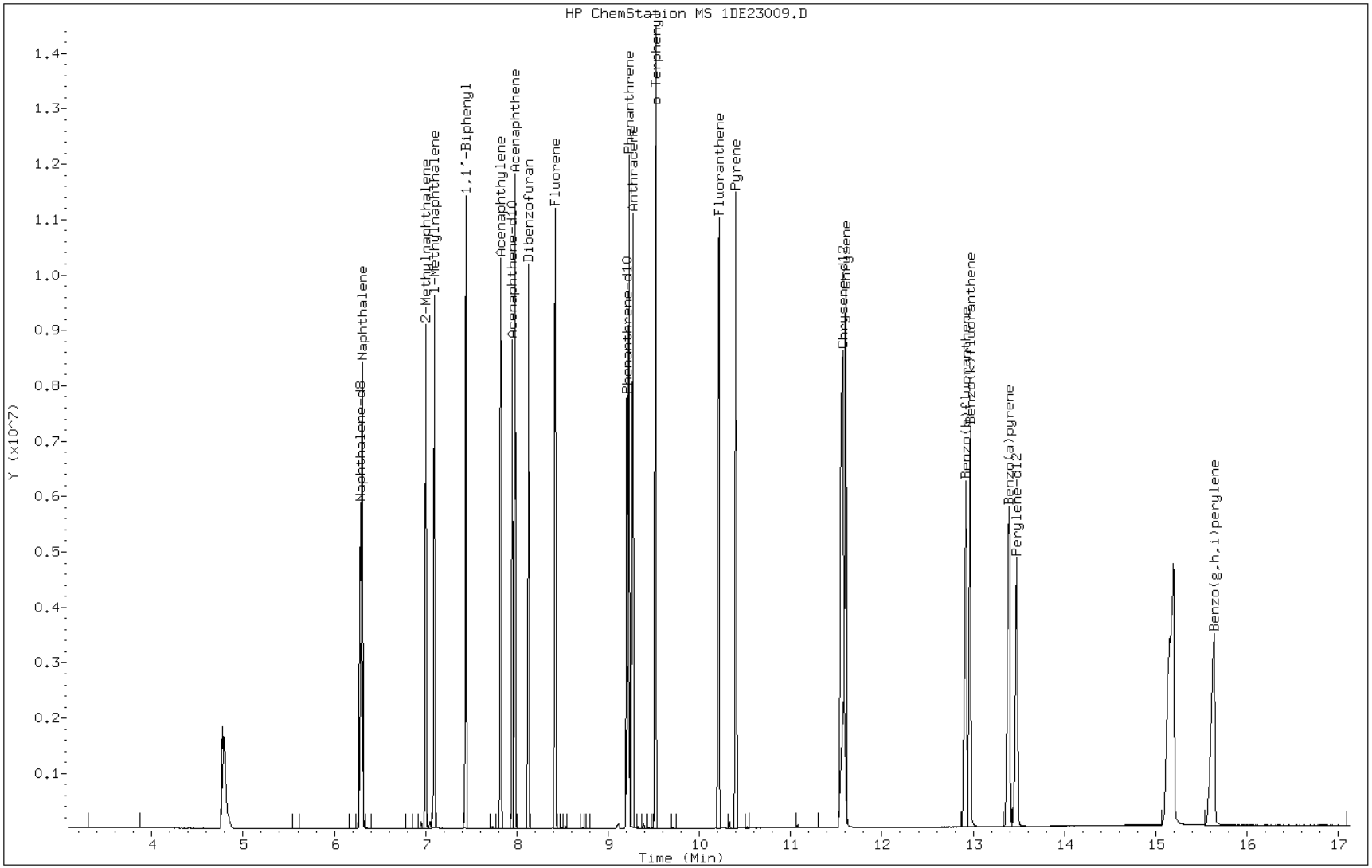
A - Target compound detected but, quantitated amount exceeded maximum amount.

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.: 680-90622-2

SDG No.: 68090622-2

Lab Sample ID: ICV 660-137743/10 Calibration Date: 05/23/2013 14:37

Instrument ID: BSMA5973 Calib Start Date: 05/23/2013 12:51

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/23/2013 14:22

Lab File ID: 1AE23010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9056	0.9596	0.0000	21200	20000	6.0	35.0
2-Methylnaphthalene	Ave	0.4312	0.5130	0.0000	23800	20000	19.0	35.0
1-Methylnaphthalene	Ave	0.6298	0.6232	0.0000	19800	20000	-1.1	35.0
Acenaphthylene	Ave	1.750	1.935	0.0000	22100	20000	10.5	35.0
Acenaphthene	Ave	0.9354	1.005	0.0000	21500	20000	7.5	35.0
Dibenzofuran	Ave	1.432	1.411		19700	20000	-1.5	
Fluorene	Ave	1.086	1.249	0.0000	23000	20000	15.0	35.0
Phenanthrene	Ave	0.9009	0.9285	0.0000	20600	20000	3.1	35.0
Anthracene	Ave	0.9424	0.9590	0.0000	20400	20000	1.8	35.0
Fluoranthene	Ave	1.125	1.140	0.0000	20300	20000	1.3	35.0
Pyrene	Ave	1.205	1.125	0.0000	18700	20000	-6.7	35.0
Benzo[a]anthracene	None		1.217	0.0000	21700	20000	8.6	35.0
Chrysene	Ave	1.068	1.140	0.0000	21300	20000	6.7	35.0
Benzo[b]fluoranthene	Lin1	0.9925	1.227	0.0000	20600	20000	2.8	35.0
Benzo[k]fluoranthene	Ave	1.331	1.473	0.0000	22100	20000	10.7	35.0
Benzo[a]pyrene	Ave	0.9757	1.138	0.0000	23300	20000	16.6	35.0
Indeno[1,2,3-cd]pyrene	Lin1	0.8579	0.9917	0.0000	20300	20000	1.3	35.0
Dibenz(a,h)anthracene	None		0.9824	0.0000	20500	20000	2.3	35.0
Benzo[g,h,i]perylene	Ave	0.8583	0.9739	0.0000	22700	20000	13.5	35.0
o-Terphenyl	Ave	0.5785	0.5901	0.0000	20400	20000	2.0	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23010.D
Lab Smp Id: ICV-1558374
Inj Date : 23-MAY-2013 14:37
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1558374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 15:31 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	2.524	2.528	(1.000)	1091029	40.0000	
*	7 Acenaphthene-d10	164	3.549	3.548	(1.000)	597262	40.0000	
*	11 Phenanthrene-d10	188	4.495	4.499	(1.000)	1081344	40.0000	
$	15 o-Terphenyl	230	4.789	4.793	(1.065)	319053	20.3999	20.3998
*	19 Chrysene-d12	240	6.514	6.513	(1.000)	1116055	40.0000	
*	24 Perylene-d12	264	7.599	7.603	(1.000)	937247	40.0000	
	2 Naphthalene	128	2.534	2.538	(1.004)	523459	21.1909	21.1908
	3 2-Methylnaphthalene	141	2.940	2.939	(1.165)	279832	23.7922	23.7921
	4 1-Methylnaphthalene	142	2.994	2.992	(1.186)	339949	19.7883	19.7883
	5 1,1'-Biphenyl	154	3.218	3.217	(1.275)	390116	20.3293	20.3292
	6 Acenaphthylene	152	3.459	3.463	(0.974)	577721	22.1070	22.1069
	8 Acenaphthene	154	3.565	3.569	(1.004)	300251	21.4963	21.4962
	9 Dibenzofuran	168	3.672	3.671	(1.035)	421476	19.7098	19.7097
	10 Fluorene	166	3.881	3.879	(1.093)	372900	22.9975	22.9975
	12 Phenanthrene	178	4.511	4.510	(1.004)	502020	20.6136	20.6136
	13 Anthracene	178	4.543	4.547	(1.011)	518497	20.3512	20.3511
	16 Fluoranthene	202	5.371	5.375	(1.195)	616226	20.2658	20.2657(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Pyrene	202	5.537	5.541	(0.850)	627697	18.6647	18.6647
18 Benzo(a)anthracene	228	6.498	6.502	(0.998)	679372	21.7131	21.7130
20 Chrysene	228	6.530	6.534	(1.002)	635939	21.3451	21.3450
21 Benzo(b)fluoranthene	252	7.321	7.320	(0.963)	575078	20.5610	20.5610
22 Benzo(k)fluoranthene	252	7.342	7.346	(0.966)	690280	22.1365	22.1365(M)
23 Benzo(a)pyrene	252	7.545	7.549	(0.993)	533150	23.3194	23.3194
25 Indeno(1,2,3-cd)pyrene	276	8.352	8.356	(1.099)	464711	20.2543	20.2542
26 Dibenzo(a,h)anthracene	278	8.373	8.377	(1.102)	460389	20.4690	20.4690
27 Benzo(g,h,i)perylene	276	8.566	8.570	(1.127)	456408	22.6948	22.6947

QC Flag Legend

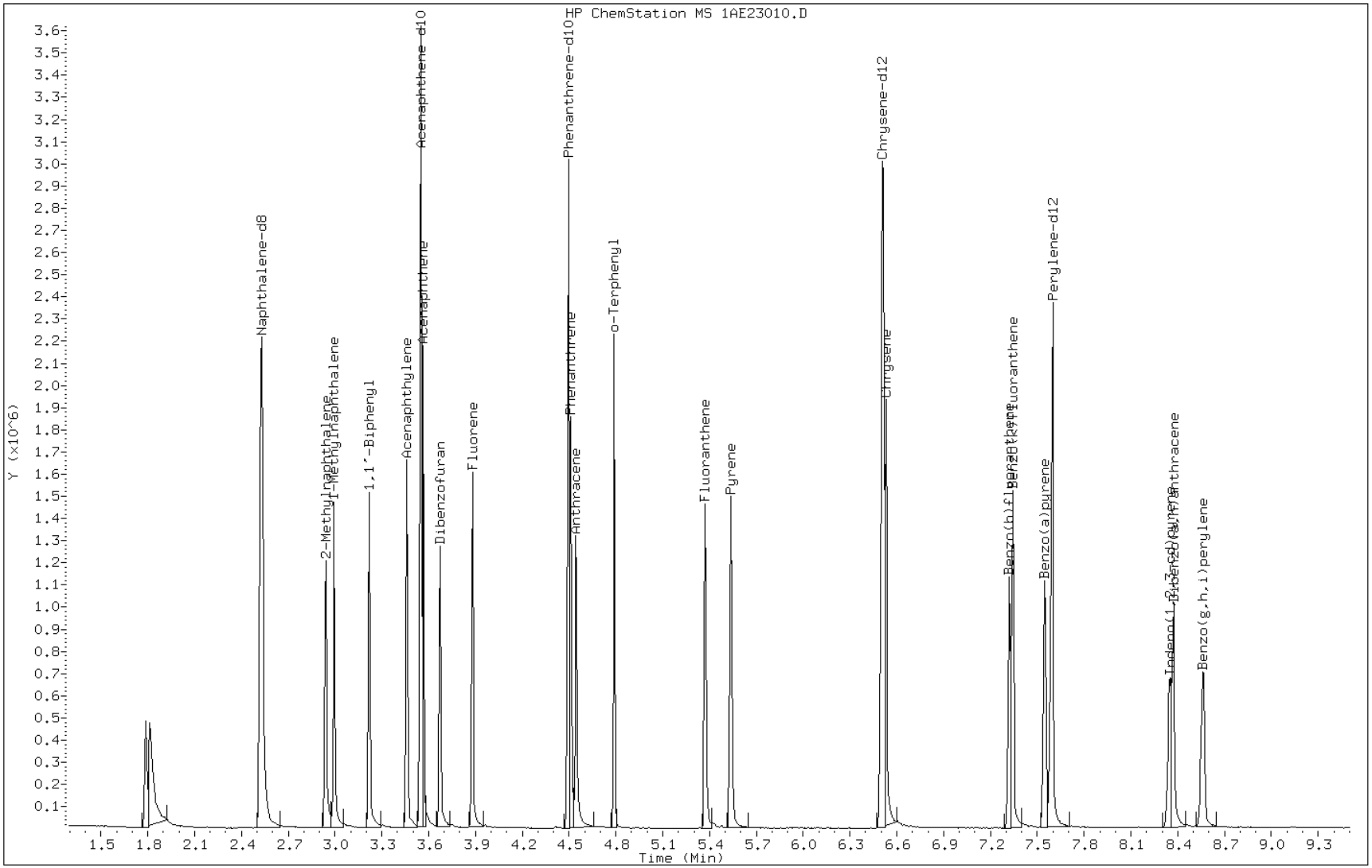
M - Compound response manually integrated.

Data File: 1AE23010.D

Date: 23-MAY-2013 14:37

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1558374 Operator: SCC



Manual Integration Report

Data File: 1AE23010.D
Inj. Date and Time: 23-MAY-2013 14:37
Instrument ID: BSMA5973.i
Client ID:
Compound: 16 Fluoranthene
CAS #: 206-44-0
Report Date: 05/23/2013

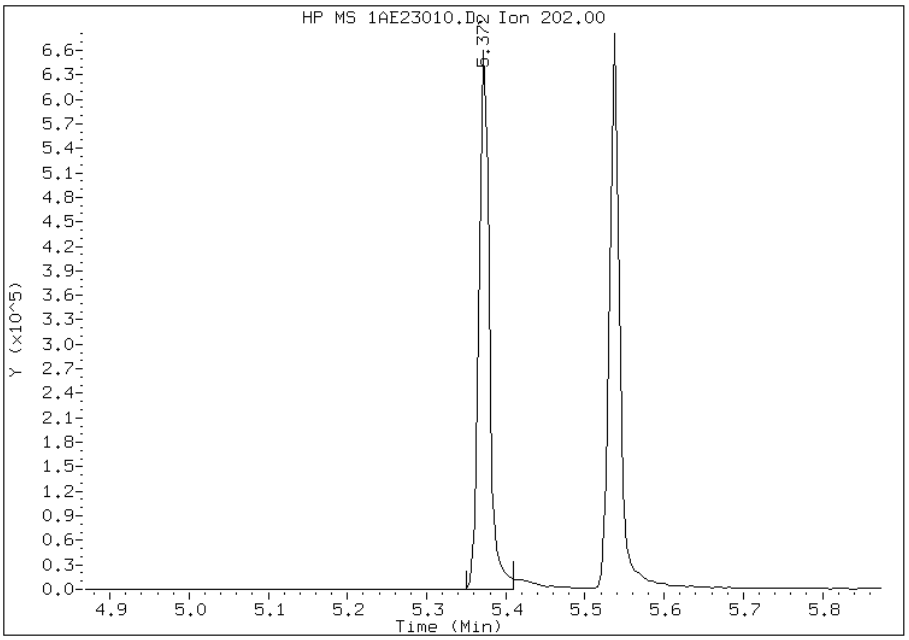
Processing Integration Results

RT: 5.37

Response: 590530

Amount: 19

Conc: 19



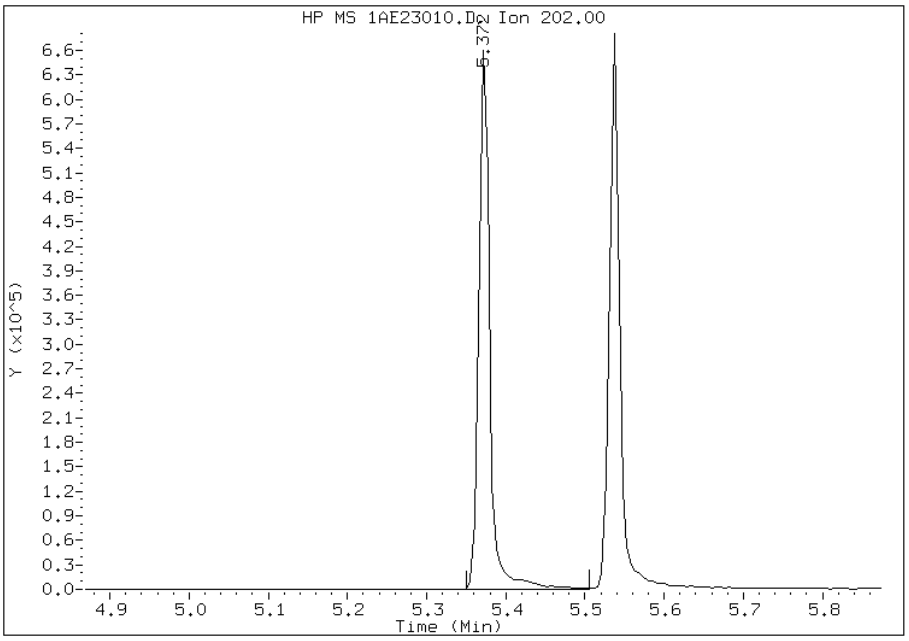
Manual Integration Results

RT: 5.37

Response: 616226

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23010.D
Inj. Date and Time: 23-MAY-2013 14:37
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/23/2013

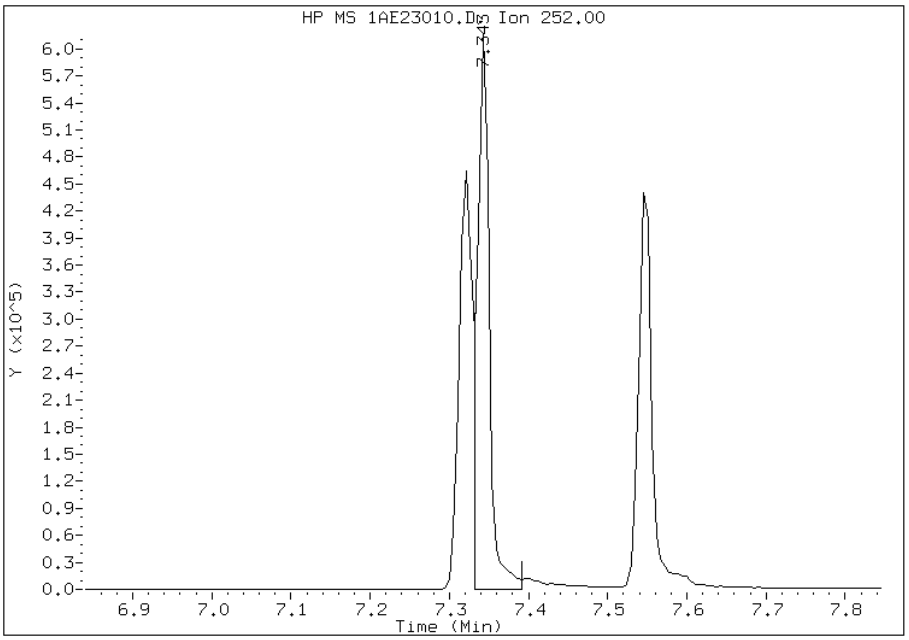
Processing Integration Results

RT: 7.34

Response: 653726

Amount: 21

Conc: 21



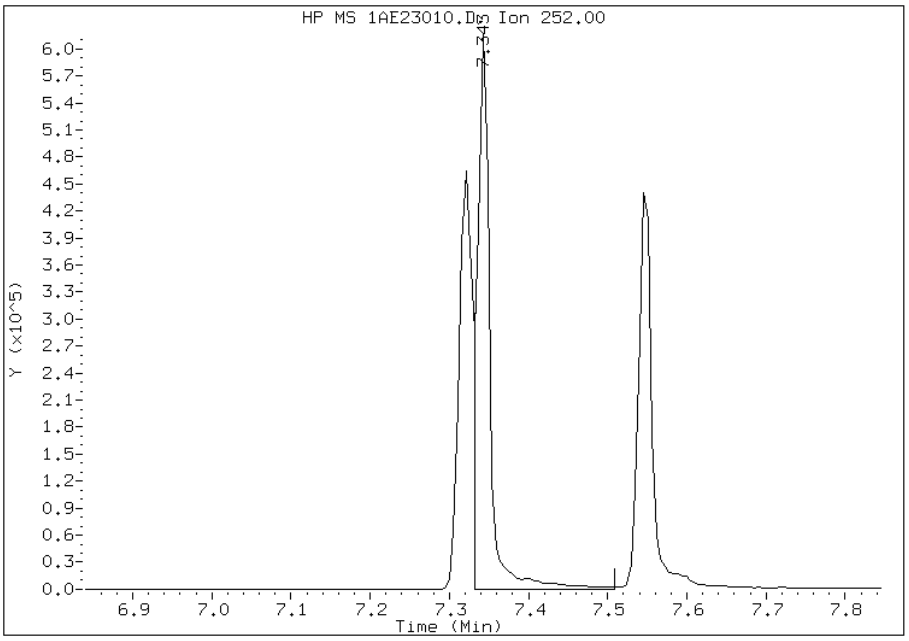
Manual Integration Results

RT: 7.34

Response: 690280

Amount: 22

Conc: 22



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:32
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Lab Sample ID: CCVIS 660-137876/7 Calibration Date: 05/29/2013 15:18

Instrument ID: BSMA5973 Calib Start Date: 05/23/2013 12:51

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/23/2013 14:22

Lab File ID: 1AE29006.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9056	0.9038	0.0000	20000	20000	-0.2	20.0
2-Methylnaphthalene	Ave	0.4312	0.4377	0.0000	20300	20000	1.5	20.0
1-Methylnaphthalene	Ave	0.6298	0.5783	0.0000	18400	20000	-8.2	20.0
Acenaphthylene	Ave	1.750	1.708	0.0000	19500	20000	-2.4	20.0
Acenaphthene	Ave	0.9354	0.9730	0.0000	20800	20000	4.0	20.0
Dibenzofuran	Ave	1.432	1.327		18500	20000	-7.4	
Fluorene	Ave	1.086	1.031	0.0000	19000	20000	-5.0	20.0
Phenanthrene	Ave	0.9009	0.8873	0.0000	19700	20000	-1.5	20.0
Anthracene	Ave	0.9424	0.9386	0.0000	19900	20000	-0.4	20.0
Fluoranthene	Ave	1.125	1.032	0.0000	18400	20000	-8.2	20.0
Pyrene	Ave	1.205	1.108	0.0000	18400	20000	-8.1	20.0
Benzo[a]anthracene	None		1.129	0.0000	20100	20000	0.7	20.0
Chrysene	Ave	1.068	0.995	0.0000	18600	20000	-6.8	20.0
Benzo[b]fluoranthene	Lin1	0.9925	0.9915	0.0000	16600	20000	-16.8	20.0
Benzo[k]fluoranthene	Ave	1.331	1.459	0.0000	21900	20000	9.6	20.0
Benzo[a]pyrene	Ave	0.9757	0.9943	0.0000	20400	20000	1.9	20.0
Indeno[1,2,3-cd]pyrene	Lin1	0.8579	0.8398	0.0000	17200	20000	-14.1	20.0
Dibenz(a,h)anthracene	None		0.8543	0.0000	17800	20000	-10.9	20.0
Benzo[g,h,i]perylene	Ave	0.8583	0.8488	0.0000	19800	20000	-1.1	20.0
o-Terphenyl	Ave	0.5785	0.5643	0.0000	19500	20000	-2.5	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29006.D
Lab Smp Id: CCVIS-1559459
Inj Date : 29-MAY-2013 15:18
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-bFASTPAHi-m.m
Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.512	2.512	(1.000) 932710	40.0000	
*	7 Acenaphthene-d10	164	3.533	3.533	(1.000) 490870	40.0000	
*	11 Phenanthrene-d10	188	4.478	4.478	(1.000) 840693	40.0000	
$	15 o-Terphenyl	230	4.772	4.772	(1.066) 237212	20.0000	19.5086
*	19 Chrysene-d12	240	6.492	6.492	(1.000) 799224	40.0000	
*	24 Perylene-d12	264	7.571	7.571	(1.000) 651433	40.0000	
	2 Naphthalene	128	2.518	2.518	(1.002) 421503	20.0000	19.9597
	3 2-Methylnaphthalene	141	2.924	2.924	(1.164) 204138	20.0000	20.3025
	4 1-Methylnaphthalene	142	2.977	2.977	(1.185) 269702	20.0000	18.3640
	5 1,1'-Biphenyl	154	3.207	3.207	(1.276) 307288	20.0000	18.7310
	6 Acenaphthylene	152	3.447	3.447	(0.976) 419086	20.0000	19.5124
	8 Acenaphthene	154	3.554	3.554	(1.006) 238797	20.0000	20.8020(M)
	9 Dibenzofuran	168	3.655	3.655	(1.035) 325587	20.0000	18.5257
	10 Fluorene	166	3.864	3.864	(1.094) 253147	20.0000	18.9959
	12 Phenanthrene	178	4.494	4.494	(1.004) 372960	20.0000	19.6979
	13 Anthracene	178	4.526	4.526	(1.011) 394528	20.0000	19.9180
	16 Fluoranthene	202	5.354	5.354	(1.196) 433907	20.0000	18.3546
	17 Pyrene	202	5.515	5.515	(0.849) 442603	20.0000	18.3781
	18 Benzo(a)anthracene	228	6.481	6.481	(0.998) 451172	20.0000	20.1325
	20 Chrysene	228	6.508	6.508	(1.002) 397703	20.0000	18.6405
	21 Benzo(b)fluoranthene	252	7.299	7.299	(0.964) 322956	20.0000	16.6499
	22 Benzo(k)fluoranthene	252	7.320	7.320	(0.967) 475292	20.0000	21.9295(M)
	23 Benzo(a)pyrene	252	7.523	7.523	(0.994) 323854	20.0000	20.3799
	25 Indeno(1,2,3-cd)pyrene	276	8.314	8.314	(1.098) 273529	20.0000	17.1740(M)
	26 Dibenzo(a,h)anthracene	278	8.341	8.341	(1.102) 278260	20.0000	17.8170
	27 Benzo(g,h,i)perylene	276	8.522	8.522	(1.126) 276464	20.0000	19.7785

QC Flag Legend

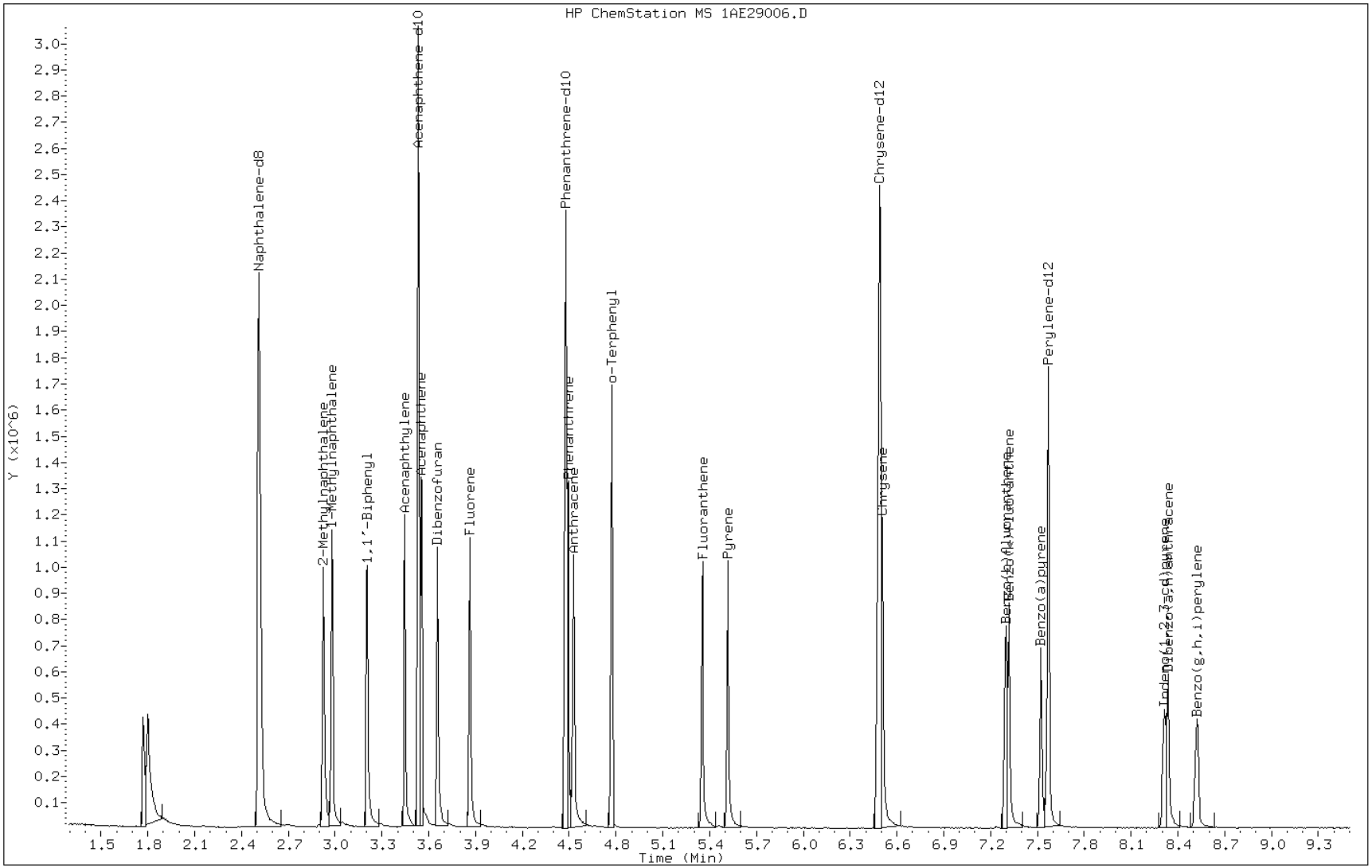
M - Compound response manually integrated.

Data File: 1AE29006.D

Date: 29-MAY-2013 15:18

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1559459 Operator: SCC



Manual Integration Report

Data File: 1AE29006.D
Inj. Date and Time: 29-MAY-2013 15:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 8 Acenaphthene
CAS #: 83-32-9
Report Date: 05/30/2013

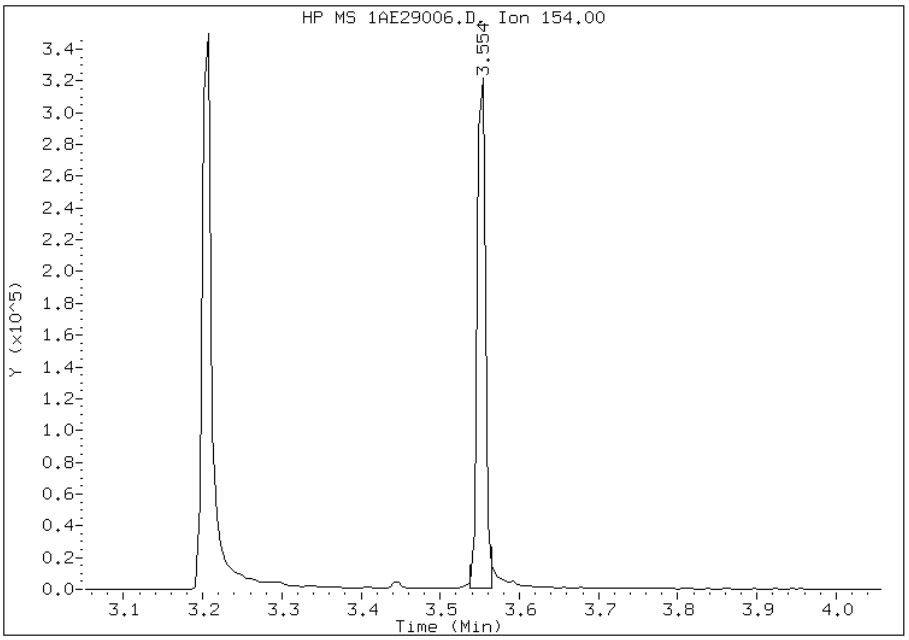
Processing Integration Results

RT: 3.55

Response: 226568

Amount: 20

Conc: 20



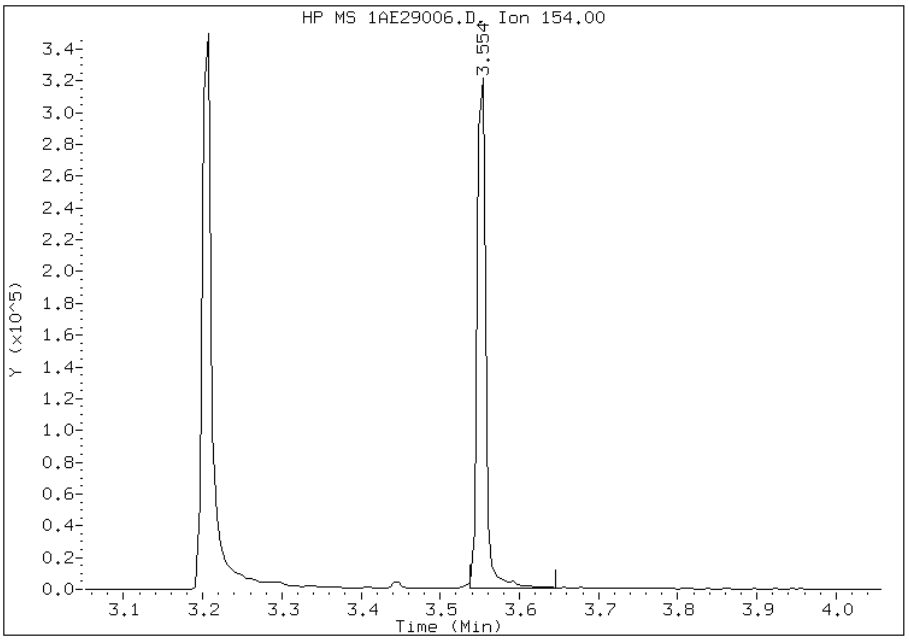
Manual Integration Results

RT: 3.55

Response: 238797

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 29-May-2013 15:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29006.D
Inj. Date and Time: 29-MAY-2013 15:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/30/2013

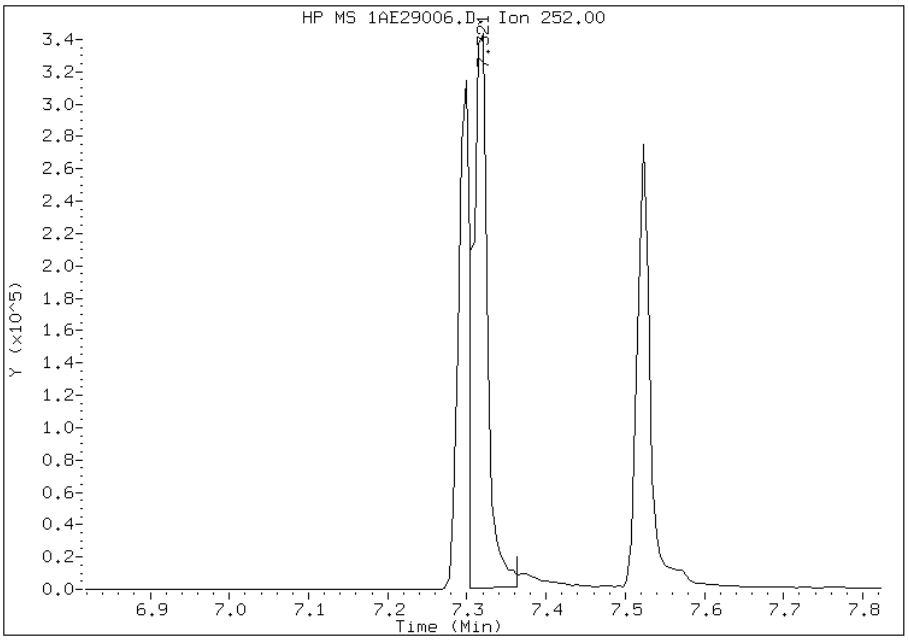
Processing Integration Results

RT: 7.32

Response: 446780

Amount: 21

Conc: 21



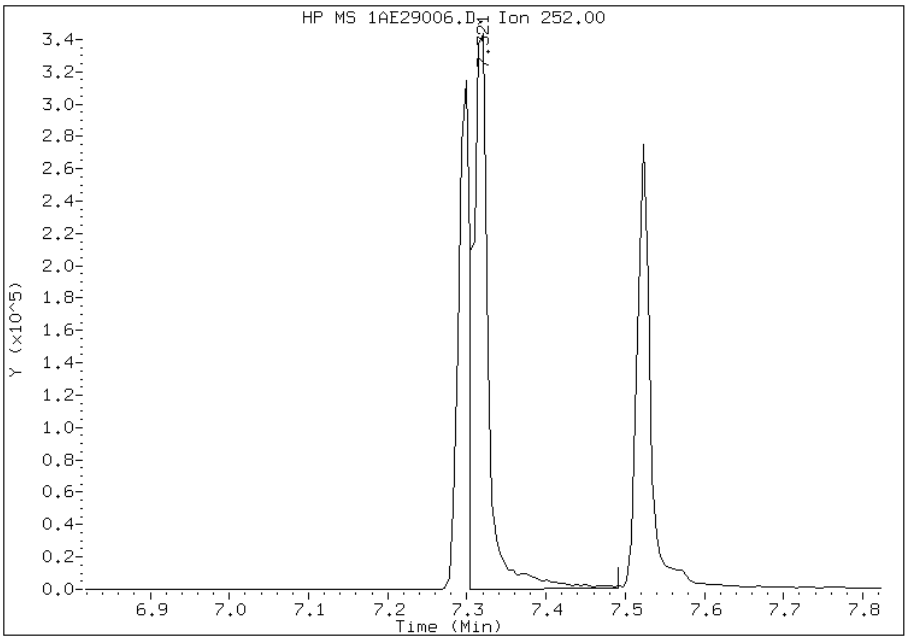
Manual Integration Results

RT: 7.32

Response: 475292

Amount: 22

Conc: 22



Manually Integrated By: cantins
Modification Date: 29-May-2013 15:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29006.D
Inj. Date and Time: 29-MAY-2013 15:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/30/2013

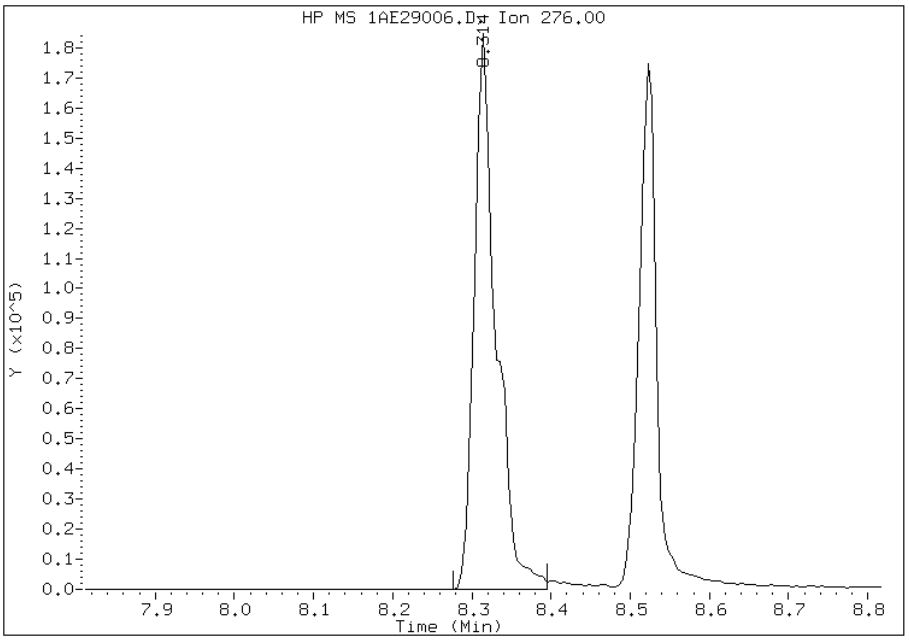
Processing Integration Results

RT: 8.31

Response: 351132

Amount: 22

Conc: 22



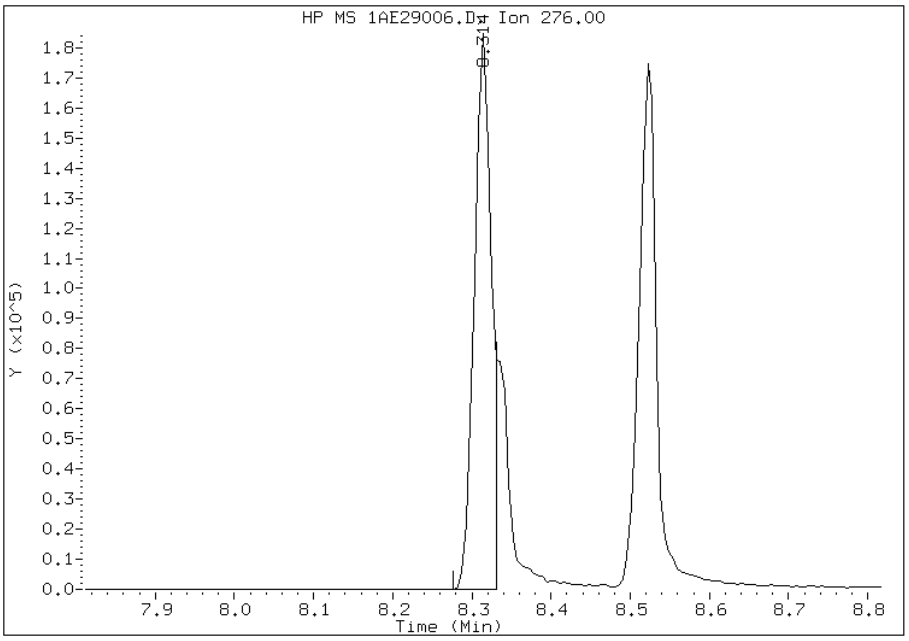
Manual Integration Results

RT: 8.31

Response: 273529

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 29-May-2013 15:31
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

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 MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (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

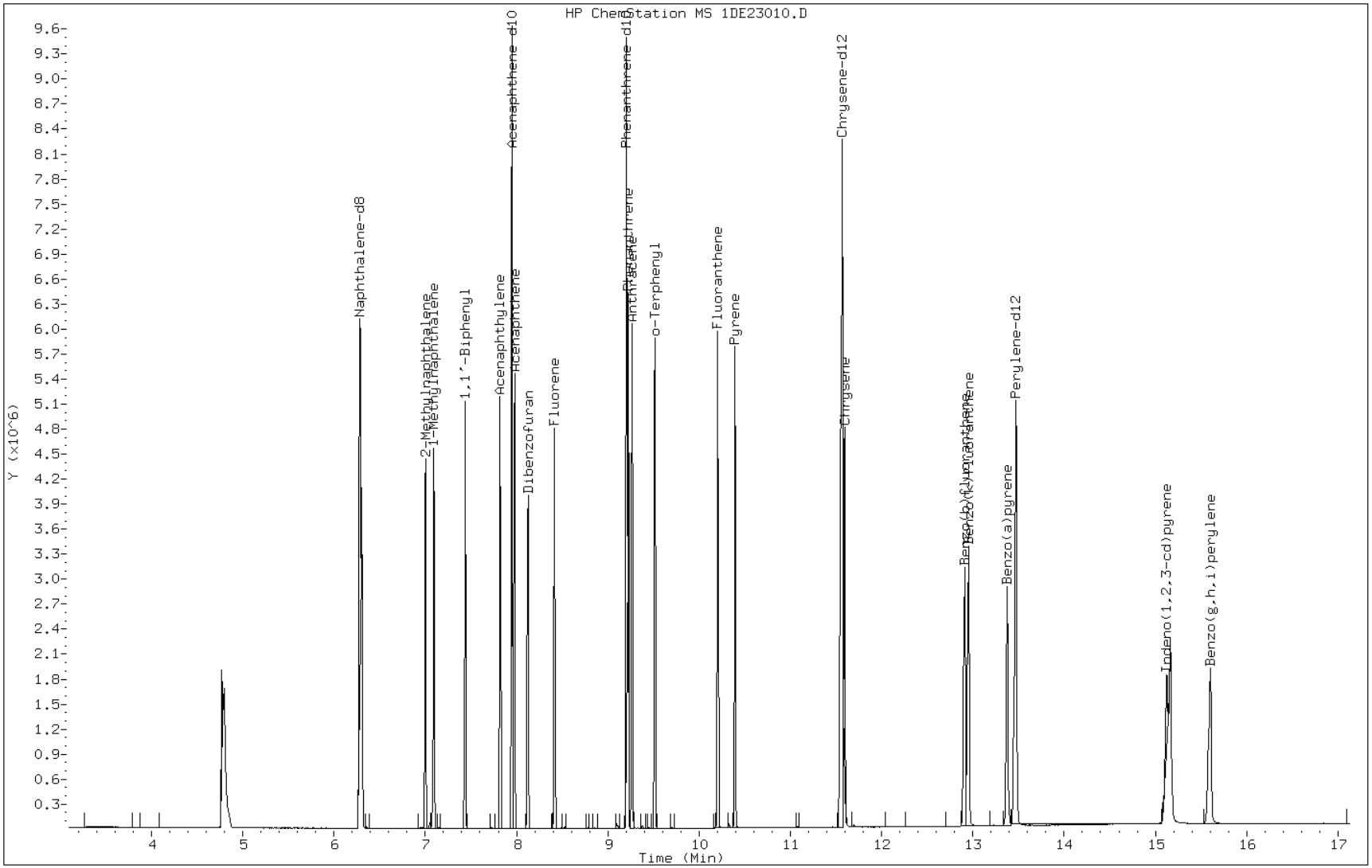
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
17 Pyrene	202	10.394	10.402	(0.898)	1958244	22.3533	22
18 Benzo(a)anthracene	228	11.551	11.559	(0.998)	1835809	20.6731	21
20 Chrysene	228	11.598	11.606	(1.003)	1720590	21.5169	22
21 Benzo(b)fluoranthene	252	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.: 680-90622-2

SDG No.: 68090622-2

Lab Sample ID: CCVIS 660-137911/5 Calibration Date: 05/29/2013 15:12

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: 1DE29005.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	0.9938	0.0000	20100	20000	0.7	20.0
2-Methylnaphthalene	Ave	0.6281	0.6464	0.0000	20600	20000	2.9	20.0
1-Methylnaphthalene	Ave	0.6466	0.6518	0.0000	20200	20000	0.8	20.0
Acenaphthylene	Ave	1.658	1.773	0.0000	21400	20000	6.9	20.0
Acenaphthene	Ave	1.052	1.057	0.0000	20100	20000	0.5	20.0
Dibenzofuran	Ave	1.451	1.497		20600	20000	3.2	
Fluorene	Ave	1.190	1.261	0.0000	21200	20000	5.9	20.0
Phenanthrene	Ave	1.083	1.095	0.0000	20200	20000	1.1	20.0
Anthracene	Ave	1.051	1.106	0.0000	21000	20000	5.2	20.0
Fluoranthene	Ave	1.108	1.171	0.0000	21100	20000	5.7	20.0
Pyrene	Ave	1.171	1.217	0.0000	20800	20000	3.9	20.0
Benzo[a]anthracene	Ave	1.187	1.126	0.0000	19000	20000	-5.2	20.0
Chrysene	Ave	1.069	1.058	0.0000	19800	20000	-1.0	20.0
Benzo[b]fluoranthene	Ave	1.002	1.051	0.0000	21000	20000	4.9	20.0
Benzo[k]fluoranthene	Ave	1.049	1.093	0.0000	20800	20000	4.2	20.0
Benzo[a]pyrene	Lin2	0.8952	1.003	0.0000	20300	20000	1.6	20.0
Indeno[1,2,3-cd]pyrene	None		0.9919	0.0000	19200	20000	-3.9	20.0
Dibenz(a,h)anthracene	Lin2	0.8892	0.9748	0.0000	20500	20000	2.3	20.0
Benzo[g,h,i]perylene	Ave	0.9083	1.008	0.0000	22200	20000	11.0	20.0
o-Terphenyl	Ave	0.5860	0.5942	0.0000	20300	20000	1.4	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\1DE29005.D
Lab Smp Id: CCVIS-1559459
Inj Date : 29-MAY-2013 15:12
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\dFASTPAHi.m
Meth Date : 29-May-2013 15:34 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.277	6.277	(1.000)	2555911	40.0000	
*	7 Acenaphthene-d10	164	7.945	7.945	(1.000)	1488336	40.0000	
*	11 Phenanthrene-d10	188	9.197	9.197	(1.000)	2532367	40.0000	
$	15 o-Terphenyl	230	9.508	9.508	(1.034)	752401	20.0000	20
*	19 Chrysene-d12	240	11.559	11.559	(1.000)	2512420	40.0000	
*	24 Perylene-d12	264	13.456	13.456	(1.000)	2612967	40.0000	
	2 Naphthalene	128	6.294	6.294	(1.003)	1270016	20.0000	20
	3 2-Methylnaphthalene	142	6.993	6.993	(1.114)	826049	20.0000	20
	4 1-Methylnaphthalene	142	7.087	7.087	(1.129)	832996	20.0000	20
	5 1,1'-Biphenyl	154	7.428	7.428	(0.935)	1034450	20.0000	20
	6 Acenaphthylene	152	7.816	7.816	(0.984)	1319752	20.0000	21
	8 Acenaphthene	154	7.969	7.969	(1.003)	786741	20.0000	20
	9 Dibenzofuran	168	8.116	8.116	(1.021)	1114020	20.0000	21
	10 Fluorene	166	8.409	8.409	(1.058)	938060	20.0000	21
	12 Phenanthrene	178	9.214	9.214	(1.002)	1386273	20.0000	20
	13 Anthracene	178	9.255	9.255	(1.006)	1400554	20.0000	21
	16 Fluoranthene	202	10.195	10.195	(1.109)	1483229	20.0000	21
	17 Pyrene	202	10.383	10.383	(0.898)	1528327	20.0000	21
	18 Benzo(a)anthracene	228	11.541	11.541	(0.998)	1414110	20.0000	19
	20 Chrysene	228	11.582	11.582	(1.002)	1329402	20.0000	20
	21 Benzo(b)fluoranthene	252	12.898	12.898	(0.959)	1373707	20.0000	21
	22 Benzo(k)fluoranthene	252	12.939	12.939	(0.962)	1427934	20.0000	21
	23 Benzo(a)pyrene	252	13.362	13.362	(0.993)	1309849	20.0000	20
	25 Indeno(1,2,3-cd)pyrene	276	15.101	15.101	(1.122)	1295851	20.0000	19(H)
	26 Dibenzo(a,h)anthracene	278	15.143	15.143	(1.125)	1273618	20.0000	20
	27 Benzo(g,h,i)perylene	276	15.577	15.577	(1.158)	1316957	20.0000	22

QC Flag Legend

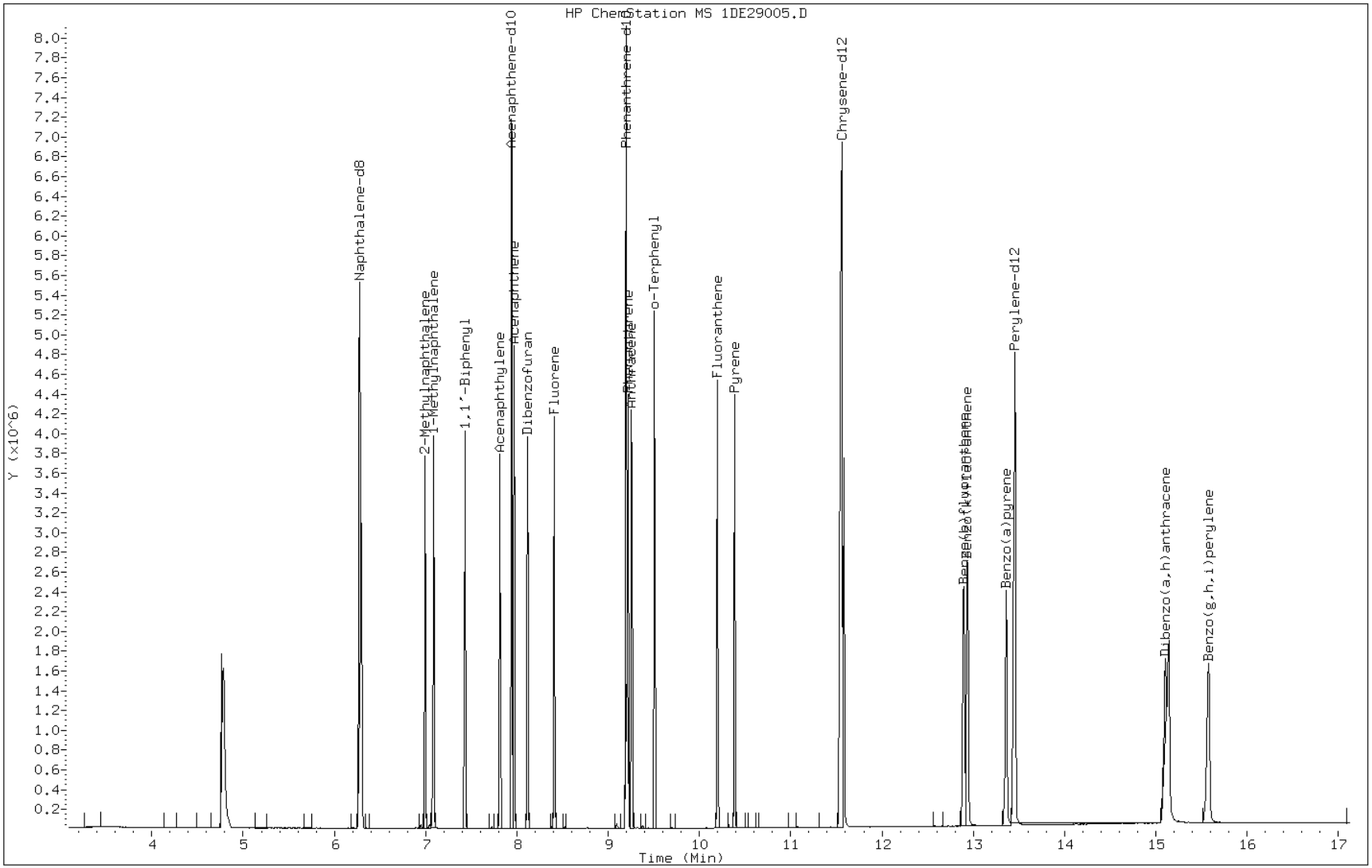
H - Operator selected an alternate compound hit.

Data File: 1DE29005.D

Date: 29-MAY-2013 15:12

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.: 680-90622-2

SDG No.: 68090622-2

Lab Sample ID: CCVIS 660-138011/3 Calibration Date: 06/03/2013 10:59

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: 1DF03003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	0.9896	0.0000	20100	20000	0.3	20.0
2-Methylnaphthalene	Ave	0.6281	0.6476	0.0000	20600	20000	3.1	20.0
1-Methylnaphthalene	Ave	0.6466	0.6446	0.0000	19900	20000	-0.3	20.0
Acenaphthylene	Ave	1.658	1.836	0.0000	22100	20000	10.7	20.0
Acenaphthene	Ave	1.052	1.069	0.0000	20300	20000	1.6	20.0
Dibenzofuran	Ave	1.451	1.528		21100	20000	5.3	
Fluorene	Ave	1.190	1.273	0.0000	21400	20000	6.9	20.0
Phenanthrene	Ave	1.083	1.108	0.0000	20500	20000	2.3	20.0
Anthracene	Ave	1.051	1.126	0.0000	21400	20000	7.2	20.0
Fluoranthene	Ave	1.108	1.173	0.0000	21200	20000	5.8	20.0
Pyrene	Ave	1.171	1.256	0.0000	21500	20000	7.3	20.0
Benzo[a]anthracene	Ave	1.187	1.165	0.0000	19600	20000	-1.9	20.0
Chrysene	Ave	1.069	1.047	0.0000	19600	20000	-2.1	20.0
Benzo[b]fluoranthene	Ave	1.002	1.131	0.0000	22600	20000	12.9	20.0
Benzo[k]fluoranthene	Ave	1.049	1.115	0.0000	21300	20000	6.3	20.0
Benzo[a]pyrene	Lin2	0.8952	1.035	0.0000	21000	20000	4.9	20.0
Indeno[1,2,3-cd]pyrene	None		1.027	0.0000	19900	20000	-0.5	20.0
Dibenz(a,h)anthracene	Lin2	0.8892	0.9781	0.0000	20500	20000	2.7	20.0
Benzo[g,h,i]perylene	Ave	0.9083	0.9832	0.0000	21700	20000	8.3	20.0
o-Terphenyl	Ave	0.5860	0.6180	0.0000	21100	20000	5.5	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03003.D
Lab Smp Id: CCVIS-1559459
Inj Date : 03-JUN-2013 10:59
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\dFASTPAHi.m
Meth Date : 03-Jun-2013 11:25 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

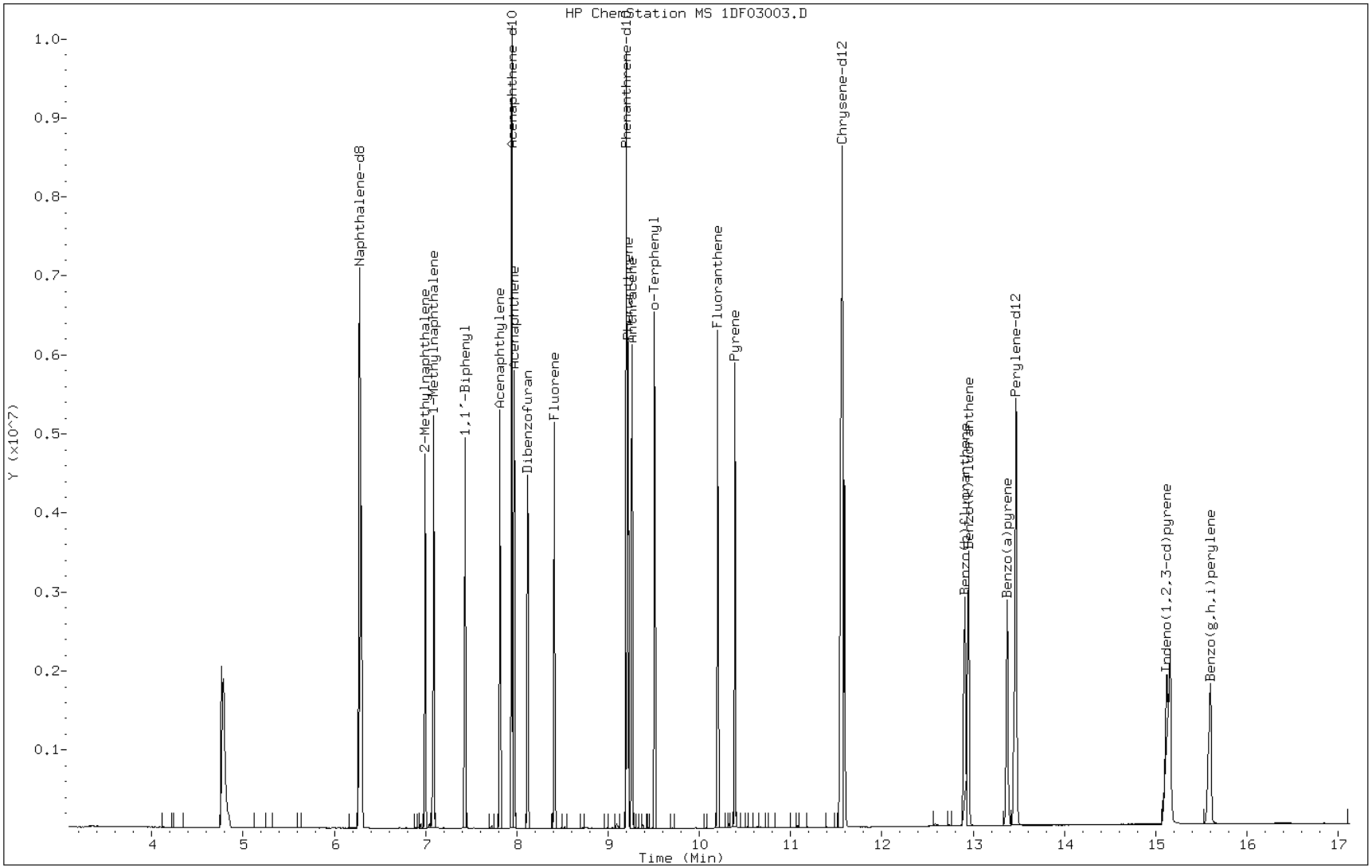
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.278	6.278	(1.000)	3550475	40.0000	
*	7 Acenaphthene-d10	164	7.946	7.946	(1.000)	1958003	40.0000	
*	11 Phenanthrene-d10	188	9.204	9.204	(1.000)	3275219	40.0000	
$	15 o-Terphenyl	230	9.509	9.509	(1.033)	1012028	20.0000	21
*	19 Chrysene-d12	240	11.566	11.566	(1.000)	3125523	40.0000	
*	24 Perylene-d12	264	13.469	13.469	(1.000)	3123612	40.0000	
	2 Naphthalene	128	6.295	6.295	(1.003)	1756746	20.0000	20
	3 2-Methylnaphthalene	142	6.995	6.995	(1.114)	1149704	20.0000	21
	4 1-Methylnaphthalene	142	7.089	7.089	(1.129)	1144342	20.0000	20
	5 1,1'-Biphenyl	154	7.429	7.429	(0.935)	1398131	20.0000	21
	6 Acenaphthylene	152	7.817	7.817	(0.984)	1797375	20.0000	22
	8 Acenaphthene	154	7.970	7.970	(1.003)	1046125	20.0000	20
	9 Dibenzofuran	168	8.117	8.117	(1.021)	1495544	20.0000	21
	10 Fluorene	166	8.411	8.411	(1.058)	1246319	20.0000	21
	12 Phenanthrene	178	9.221	9.221	(1.002)	1814705	20.0000	20
	13 Anthracene	178	9.263	9.263	(1.006)	1844637	20.0000	21
	16 Fluoranthene	202	10.203	10.203	(1.109)	1920264	20.0000	21
	17 Pyrene	202	10.391	10.391	(0.898)	1962899	20.0000	21
	18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	1820097	20.0000	20
	20 Chrysene	228	11.595	11.595	(1.003)	1635839	20.0000	20
	21 Benzo(b)fluoranthene	252	12.911	12.911	(0.959)	1766694	20.0000	22
	22 Benzo(k)fluoranthene	252	12.946	12.946	(0.961)	1742124	20.0000	21
	23 Benzo(a)pyrene	252	13.375	13.375	(0.993)	1617162	20.0000	21
	25 Indeno(1,2,3-cd)pyrene	276	15.120	15.120	(1.123)	1603622	20.0000	20
	26 Dibenzo(a,h)anthracene	278	15.162	15.162	(1.126)	1527551	20.0000	20
	27 Benzo(g,h,i)perylene	276	15.602	15.602	(1.158)	1535565	20.0000	22

Data File: 1DF03003.D

Date: 03-JUN-2013 10:59

Client ID: Instrument: BSMSD.i

Sample Info: CCVIS-1559459 Operator: SCC



TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 23-MAY-2013 11:41
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.864	4.963	-0.099	198	93344			50.00- 0.00	100.00
4.864	4.963	-0.099	51	46632			10.00- 80.00	49.96
4.864	4.963	-0.099	68	630			0.00- 2.00	1.96
4.864	4.963	-0.099	69	32200			0.00- 0.00	34.50
4.864	4.963	-0.099	70	0	0.0	0.0	0.00- 2.00	0.00
4.864	4.963	-0.099	127	42592			10.00- 80.00	45.63
4.864	4.963	-0.099	197	0	0.0	0.0	0.00- 2.00	0.00
4.864	4.963	-0.099	442	58304			50.00- 0.00	62.46
4.864	4.963	-0.099	199	6869			5.00- 9.00	7.36
4.864	4.963	-0.099	275	21176			10.00- 60.00	22.69
4.864	4.963	-0.099	365	2234			1.00- 0.00	2.39
4.864	4.963	-0.099	441	8326			0.01- 99.99	71.70
4.864	4.963	-0.099	443	11613			15.00- 24.00	19.92

Data File: 1AE23002.D

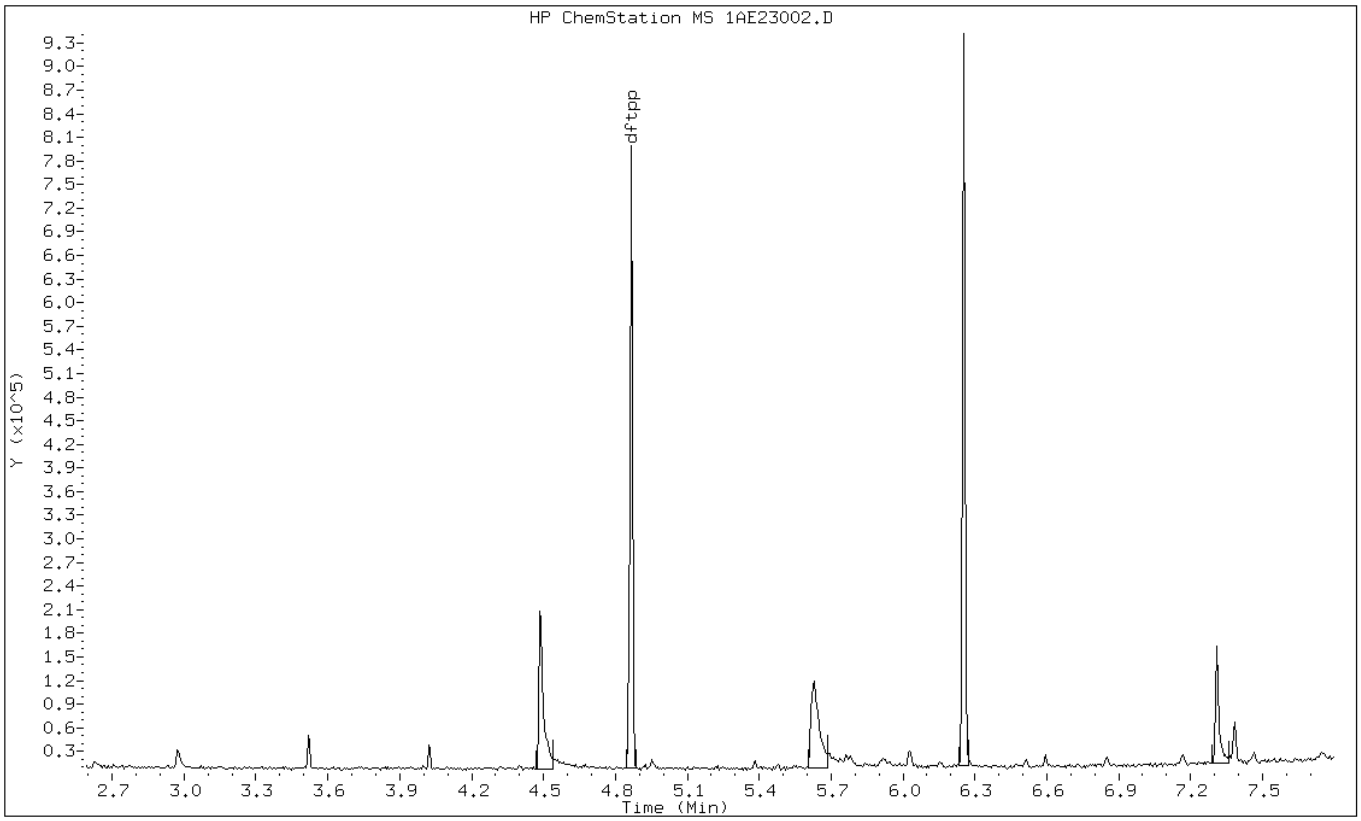
Date: 23-MAY-2013 11:41

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



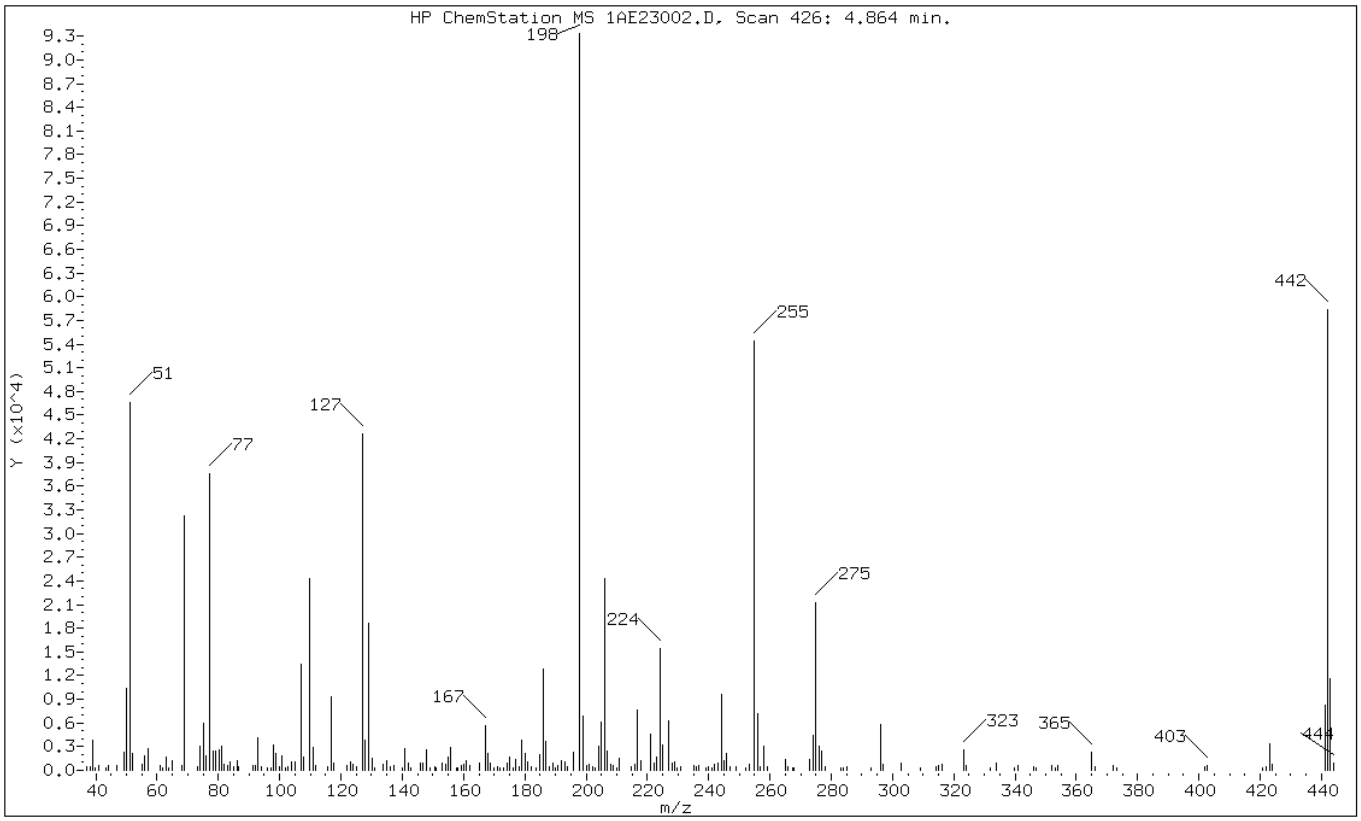
Data File: 1AE23002.D

Date: 23-MAY-2013 11:41

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	49.96
68	Less than 2.00% of mass 69	0.67 (1.96)
69	Mass 69 relative abundance	34.50
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	45.63
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	62.46
199	5.00 - 9.00% of mass 198	7.36
275	10.00 - 60.00% of mass 198	22.69
365	Greater than 1.00% of mass 198	2.39
441	Present, but less than mass 443	8.92
443	15.00 - 24.00% of mass 442	12.44 (19.92)

Data File: 1AE23002.D

Date: 23-MAY-2013 11:41

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23002.D
Spectrum: HP ChemStation MS 1AE23002.D, Scan 426: 4.864 min.
Location of Maximum: 197.90
Number of points: 215

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	491	110.90	2925	182.20	451	252.00	342
38.00	466	111.90	537	183.80	270	253.10	688
39.00	3781	115.80	524	185.00	1962	255.00	54408
39.90	252	117.00	9284	186.00	12834	256.00	7107
41.10	680	117.80	854	187.00	3653	257.00	393
43.10	314	121.90	658	187.90	444	258.00	3032
43.90	618	123.10	1013	189.00	980	259.00	478
46.90	591	124.10	791	189.90	265	264.90	1438
49.00	2329	124.90	482	190.90	630	266.00	400
50.00	10379	127.00	42592	191.90	1221	267.40	266
51.00	46632	128.00	3820	193.10	1127	268.00	332
52.00	2132	129.00	18624	194.00	396	273.00	1323
55.00	735	130.10	1576	196.00	2289	274.00	4469
56.00	1835	130.90	281	197.90	93344	275.00	21176
57.00	2685	133.80	773	198.90	6869	276.00	3018
61.10	600	135.00	1174	200.00	653	276.90	2483
61.90	281	136.00	529	201.10	782	278.00	440
63.00	1673	137.20	575	202.00	439	283.00	317
63.90	284	140.20	313	203.10	345	284.10	347
65.10	1256	141.00	2773	204.10	3069	285.10	532
67.90	630	141.90	903	205.00	6041	293.10	274
69.00	32200	142.70	361	206.00	24272	296.00	5877
73.00	480	146.10	918	206.90	2475	297.10	701
74.00	3055	146.80	870	207.90	716	303.00	849
75.00	5898	148.00	2662	209.00	644	309.20	323
76.10	1797	149.00	269	210.20	302	314.10	420
77.00	37512	150.70	401	211.00	1569	315.10	564
78.10	2395	151.20	322	214.90	419	316.20	724
78.90	2454	152.90	933	216.10	744	323.10	2632
80.10	2522	154.00	697	216.90	7660	324.00	550
81.00	2994	154.90	1624	218.00	1149	331.90	264
81.90	754	155.90	2839	221.00	4642	334.00	873
83.00	652	157.80	322	222.10	900	339.90	317
83.90	1103	158.10	348	222.90	1696	341.00	575
85.00	415	159.10	600	224.00	15373	346.00	417
86.00	1289	160.10	803	225.00	3272	347.00	251
86.70	394	161.00	1280	227.00	6226	352.10	563
91.10	563	161.90	546	228.00	923	353.00	329
92.00	559	165.00	939	228.90	1085	354.10	586
93.00	4113	167.00	5642	229.70	308	365.00	2234

93.90	430	168.00	2100	231.00	510	366.00	442
96.00	319	168.80	886	235.00	606	372.10	576
97.00	321	170.00	264	235.80	434	373.30	336
98.00	3182	171.10	534	236.90	583	402.10	467
98.90	2111	171.70	334	239.20	362	402.80	578
100.10	411	173.00	362	240.00	461	420.80	327
100.90	1779	174.10	860	241.00	298	422.00	475
102.00	352	175.00	1715	241.80	839	423.00	3298
102.80	519	176.20	341	243.00	928	424.10	698
104.00	1001	177.10	1372	244.10	9602	441.10	8326
105.00	1090	178.00	441	244.90	1146	442.00	58304
107.00	13452	178.90	3816	245.90	2154	443.00	11613
107.90	1631	180.00	2081	247.10	507	444.00	958
109.90	24240	181.00	1071	249.10	385		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29005.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 29-MAY-2013 15:05
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

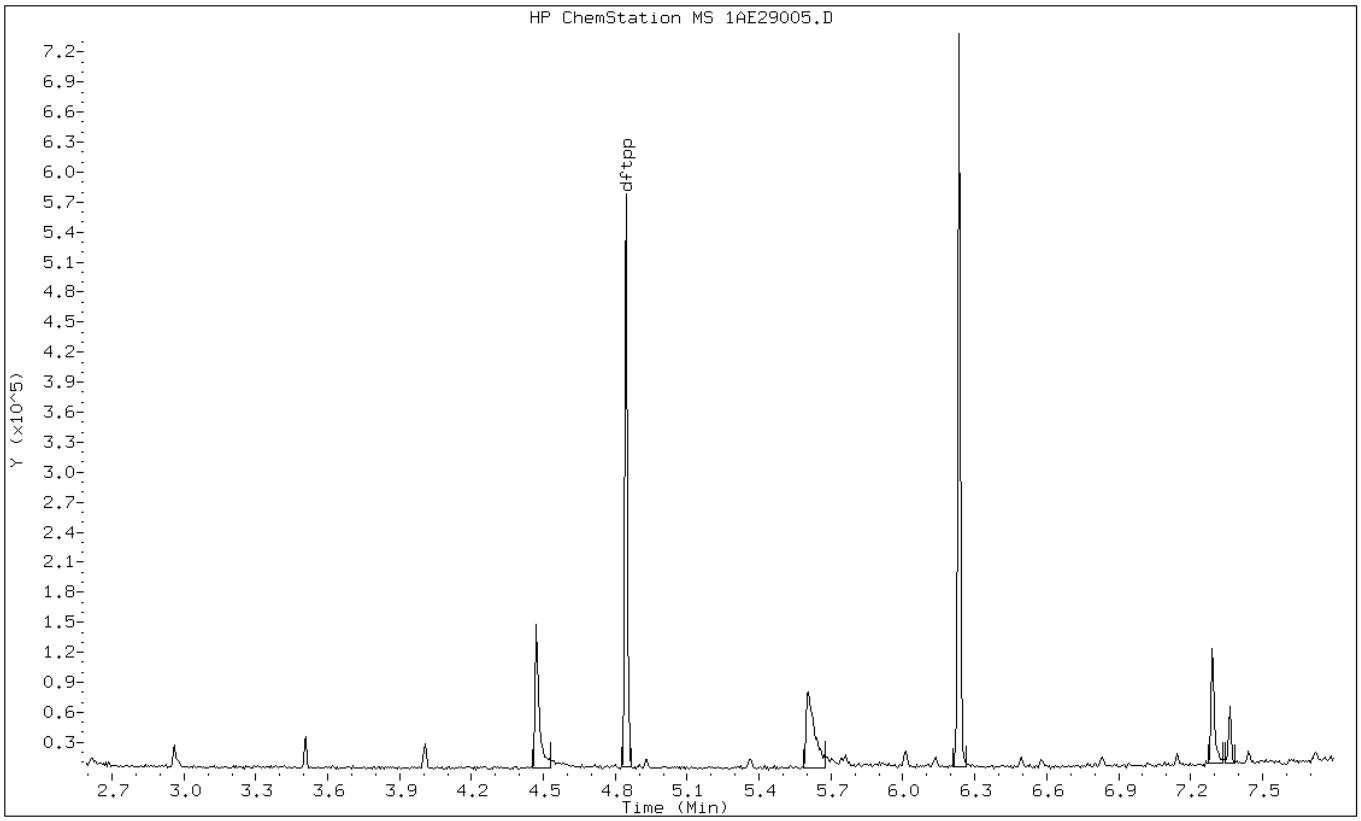
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.848	4.963	-0.115	198	61032			50.00- 0.00	100.00
4.848	4.963	-0.115	51	24072			10.00- 80.00	39.44
4.848	4.963	-0.115	68	385			0.00- 2.00	1.78
4.848	4.963	-0.115	69	21608			0.00- 0.00	35.40
4.848	4.963	-0.115	70	0	0.0	0.0	0.00- 2.00	0.00
4.848	4.963	-0.115	127	26272			10.00- 80.00	43.05
4.848	4.963	-0.115	197	0	0.0	0.0	0.00- 2.00	0.00
4.848	4.963	-0.115	442	57344			50.00- 0.00	93.96
4.848	4.963	-0.115	199	4562			5.00- 9.00	7.47
4.848	4.963	-0.115	275	16952			10.00- 60.00	27.78
4.848	4.963	-0.115	365	2243			1.00- 0.00	3.68
4.848	4.963	-0.115	441	6869			0.01- 99.99	59.80
4.848	4.963	-0.115	443	11486			15.00- 24.00	20.03

Data File: 1AE29005.D

Date: 29-MAY-2013 15:05

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC



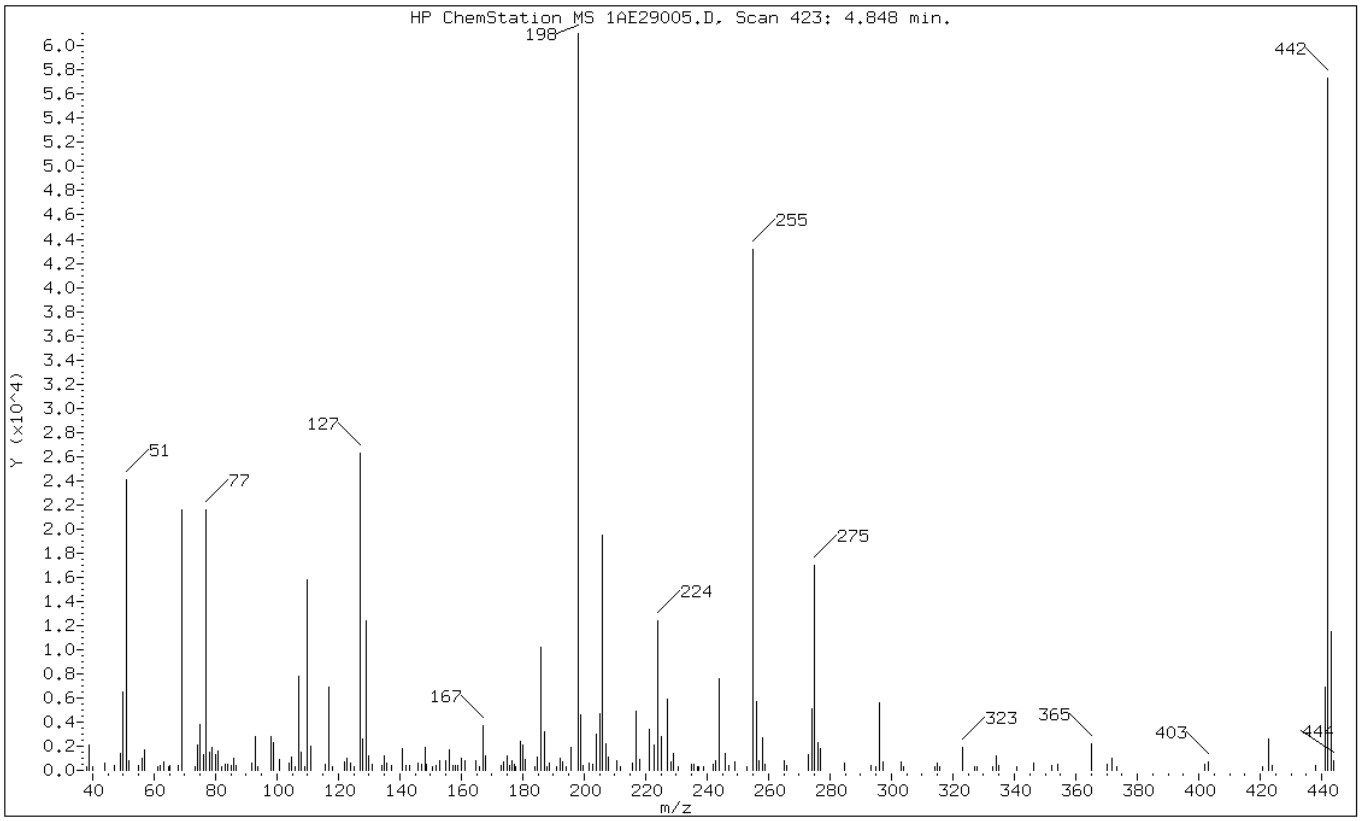
Data File: 1AE29005.D

Date: 29-MAY-2013 15:05

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	39.44
68	Less than 2.00% of mass 69	0.63 (1.78)
69	Mass 69 relative abundance	35.40
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	43.05
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	93.96
199	5.00 - 9.00% of mass 198	7.47
275	10.00 - 60.00% of mass 198	27.78
365	Greater than 1.00% of mass 198	3.68
441	Present, but less than mass 443	11.25
443	15.00 - 24.00% of mass 442	18.82 (20.03)

Data File: 1AE29005.D

Date: 29-MAY-2013 15:05

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29005.D
Spectrum: HP ChemStation MS 1AE29005.D, Scan 423: 4.848 min.
Location of Maximum: 198.00
Number of points: 189

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	302	110.90	2046	184.10	307	256.90	750
39.00	2111	115.90	495	184.90	1068	258.10	2722
40.00	305	116.90	6910	186.00	10143	259.00	500
44.00	608	118.00	347	187.00	3205	265.00	808
47.00	376	121.90	674	187.90	312	265.90	440
48.90	1443	122.90	953	188.80	627	272.90	1282
50.00	6502	124.00	570	191.10	300	274.00	5055
51.00	24072	125.00	343	192.00	1025	275.00	16952
52.00	799	127.00	26272	193.00	736	276.00	2336
54.90	359	128.00	2609	194.10	267	277.00	1792
56.00	974	129.00	12370	195.80	1918	284.90	579
57.00	1663	130.00	1213	198.00	61032	293.20	370
61.10	274	131.00	528	198.90	4562	295.00	267
62.00	402	134.10	390	199.80	386	296.00	5570
63.00	748	135.00	1175	201.70	565	297.10	662
64.70	341	135.90	607	202.80	547	303.20	739
65.10	376	137.10	382	204.00	3035	304.00	289
68.00	385	141.00	1780	205.00	4737	314.10	294
69.00	21608	141.90	388	206.00	19496	314.90	607
73.20	261	143.00	379	207.10	2219	315.70	314
74.10	2064	145.80	600	208.00	1057	323.00	1924
75.00	3800	147.00	502	210.80	848	327.10	302
76.00	1283	148.10	1889	211.70	296	328.00	266
76.20	1298	148.80	489	215.80	577	332.80	286
77.00	21600	150.80	277	216.90	4944	334.10	1227
77.90	1531	151.80	408	217.90	939	335.00	403
78.90	1887	153.00	803	221.10	3357	340.90	279
79.90	1268	155.10	812	222.80	2049	346.20	560
81.00	1644	156.00	1668	224.00	12359	352.00	423
82.00	336	157.20	404	225.00	2837	354.00	521
83.00	510	158.00	446	227.00	5921	354.20	528
84.00	481	158.80	374	228.10	665	365.00	2243
85.00	437	160.00	1003	229.00	1373	370.00	549
86.00	1044	161.20	819	230.60	302	371.90	1005
86.80	390	164.90	808	234.80	458	373.30	252
92.00	624	166.10	306	235.80	514	402.00	502
92.90	2828	167.00	3649	236.70	301	403.00	748
93.90	338	168.00	1237	237.10	312	420.90	284
97.90	2825	173.10	356	239.00	260	422.90	2617
98.90	2289	173.90	689	241.90	541	424.10	411

100.90	906	175.00	1180	242.90	833	437.90	428
104.00	612	175.70	357	244.10	7594	441.00	6869
104.80	1051	176.40	835	246.00	1423	442.00	57344
106.00	349	177.10	496	247.00	380	443.00	11486
107.00	7798	177.80	274	248.90	663	443.90	844
108.00	1485	179.10	2417	253.00	253		
108.90	254	179.90	2103	255.00	43184		
110.00	15761	180.90	865	255.90	5656		

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

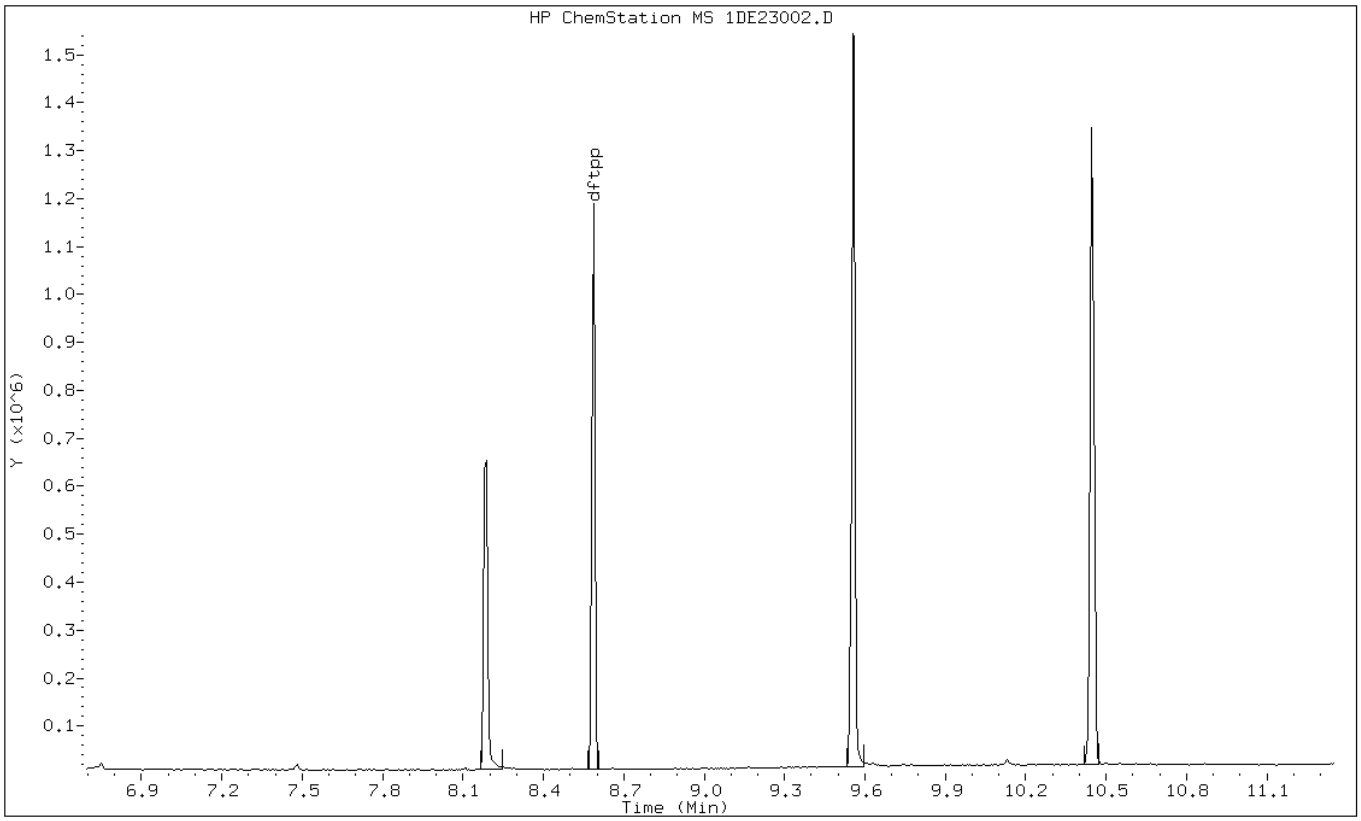
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.587	8.532	0.055	198	121784			50.00- 0.00	100.00
8.587	8.532	0.055	51	67440			10.00- 80.00	55.38
8.587	8.532	0.055	68	0	0.0	0.0	0.00- 2.00	0.00
8.587	8.532	0.055	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



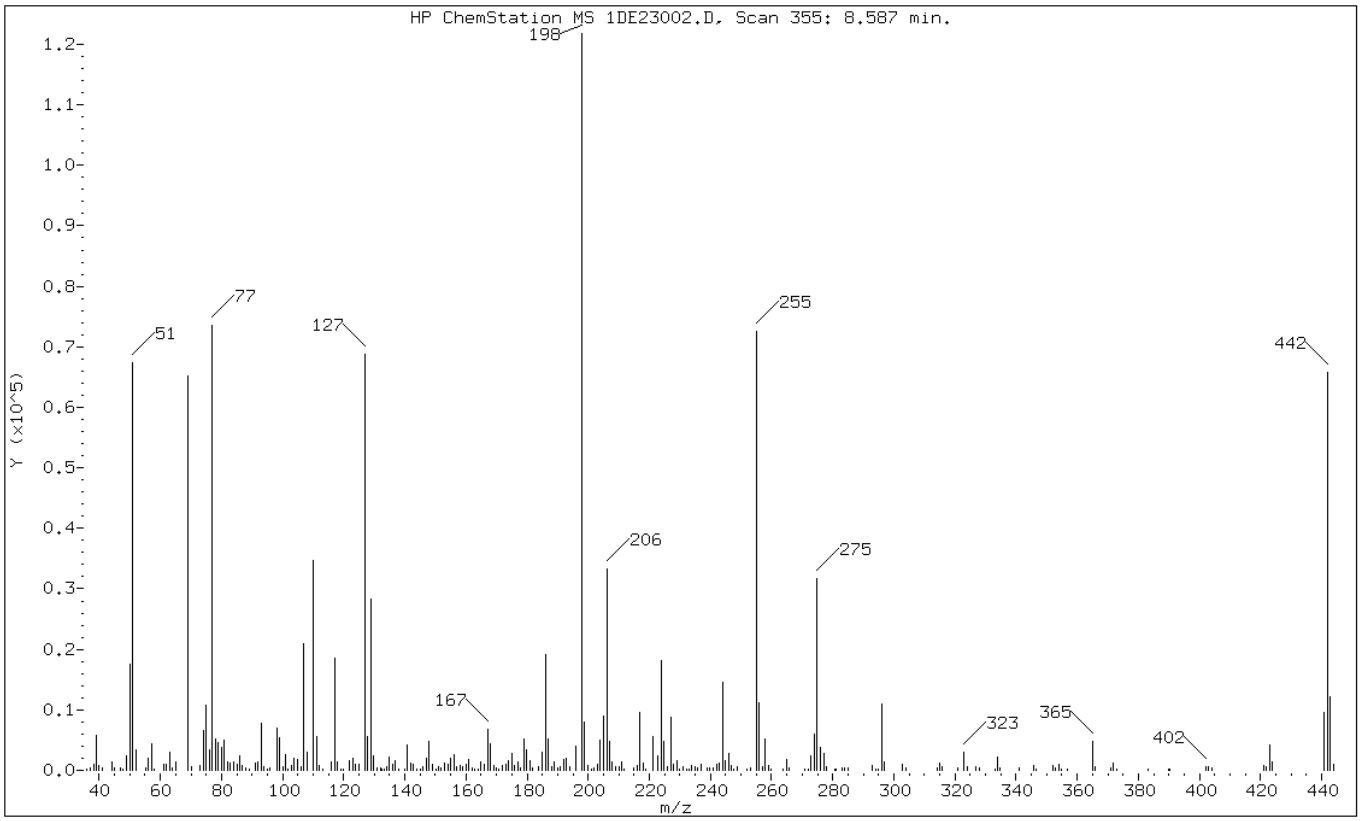
Data File: 1DE23002.D

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\1D052913.b\1DE29002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 29-MAY-2013 13:43
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1506492
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.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

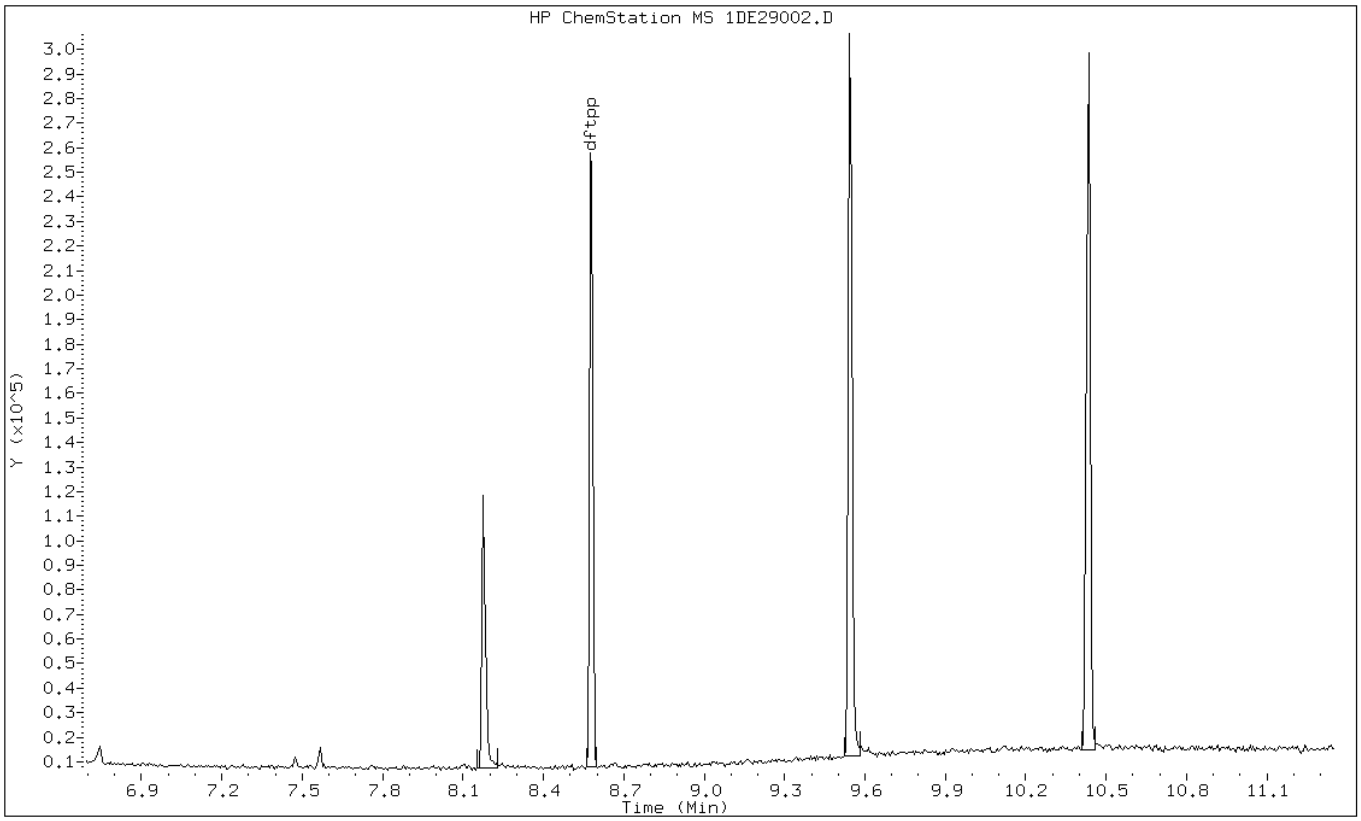
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.576	8.532	0.044	198	25064			50.00- 0.00	100.00
8.576	8.532	0.044	51	12962			10.00- 80.00	51.72
8.576	8.532	0.044	68	220			0.00- 2.00	1.87
8.576	8.532	0.044	69	11789			0.00- 0.00	47.04
8.576	8.532	0.044	70	0	0.0	0.0	0.00- 2.00	0.00
8.576	8.532	0.044	127	12363			10.00- 80.00	49.33
8.576	8.532	0.044	197	0	0.0	0.0	0.00- 2.00	0.00
8.576	8.532	0.044	442	20296			50.00- 0.00	80.98
8.576	8.532	0.044	199	1544			5.00- 9.00	6.16
8.576	8.532	0.044	275	7399			10.00- 60.00	29.52
8.576	8.532	0.044	365	961			1.00- 0.00	3.83
8.576	8.532	0.044	441	2899			0.01- 99.99	71.76
8.576	8.532	0.044	443	4040			15.00- 24.00	19.91

Data File: 1DE29002.D

Date: 29-MAY-2013 13:43

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1506492 Operator: SCC



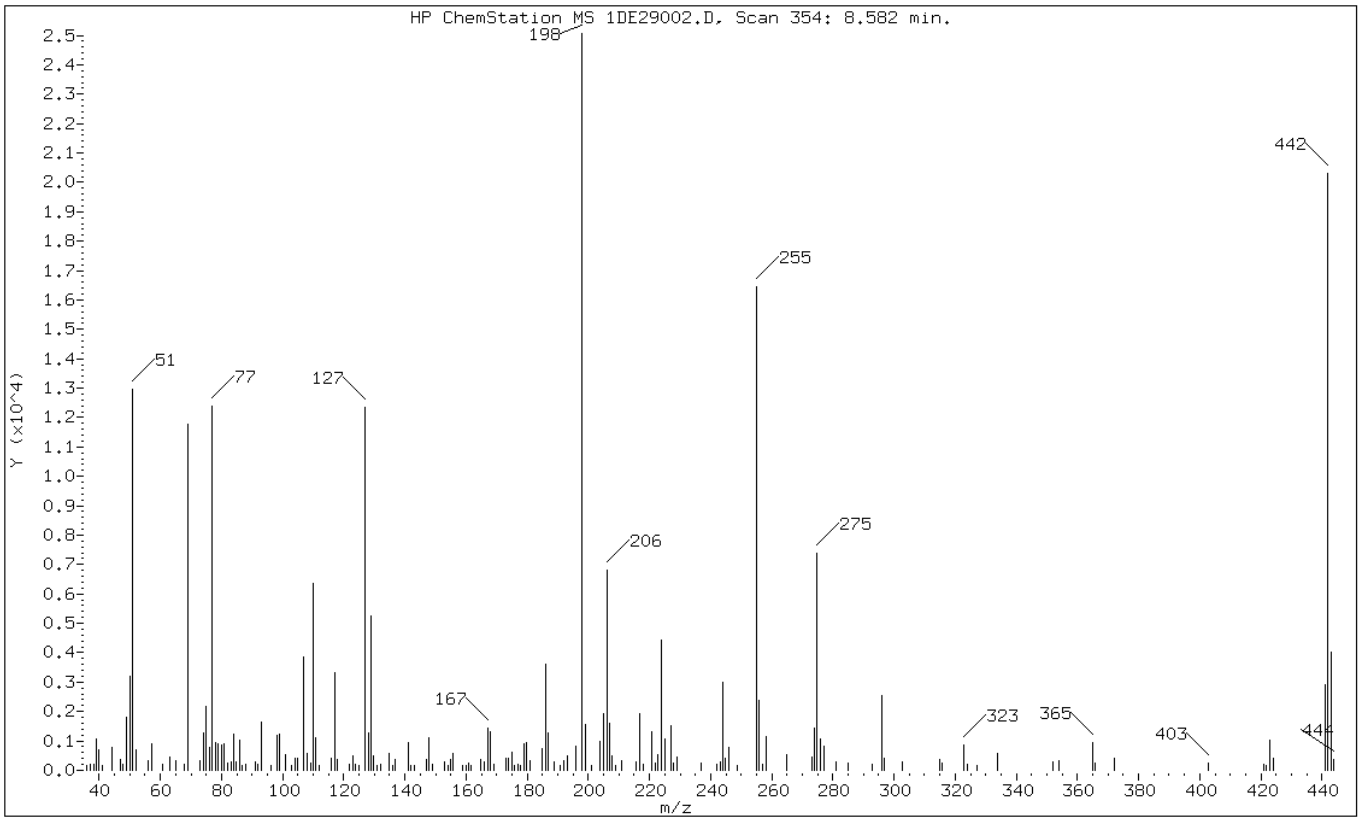
Data File: 1DE29002.D

Date: 29-MAY-2013 13:43

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1506492 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	51.72
68	Less than 2.00% of mass 69	0.88 (1.87)
69	Mass 69 relative abundance	47.04
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	49.33
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	80.98
199	5.00 - 9.00% of mass 198	6.16
275	10.00 - 60.00% of mass 198	29.52
365	Greater than 1.00% of mass 198	3.83
441	Present, but less than mass 443	11.57
443	15.00 - 24.00% of mass 442	16.12 (19.91)

Data File: 1DE29002.D

Date: 29-MAY-2013 13:43

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1506492 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\1DE29002.D
Spectrum: HP ChemStation MS 1DE29002.D, Scan 354: 8.582 min.
Location of Maximum: 197.90
Number of points: 168

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	161	102.90	165	169.10	192	244.80	400
37.10	204	103.90	403	172.90	396	245.80	770
38.10	224	105.00	413	173.90	413	248.90	184
39.00	1060	107.00	3853	175.00	615	254.90	16448
40.00	707	108.00	579	175.90	156	255.90	2388
41.10	163	109.10	239	177.00	211	256.80	194
44.00	798	109.90	6349	177.80	150	258.00	1160
46.90	358	110.90	1118	178.90	913	264.90	543
47.90	218	112.00	156	179.90	927	273.00	467
49.00	1799	116.00	396	180.90	332	273.90	1445
50.00	3209	116.90	3335	184.90	743	274.90	7399
51.00	12962	118.00	367	186.00	3596	276.00	1076
52.00	684	121.90	207	186.90	1288	276.90	827
56.00	332	123.00	478	188.90	267	280.90	269
57.00	912	123.90	213	190.90	158	284.90	247
60.90	194	125.00	159	191.80	308	292.80	201
62.90	447	127.00	12363	193.00	491	295.90	2535
65.10	344	128.00	1267	195.90	812	296.90	401
68.00	220	128.90	5249	197.90	25064	302.90	302
69.00	11789	129.80	508	198.90	1544	314.90	350
72.90	329	130.90	159	200.90	159	315.90	227
74.00	1267	132.00	189	203.90	999	323.00	871
75.00	2156	134.90	572	205.00	1924	323.90	186
76.10	763	135.90	184	206.00	6814	327.00	153
77.00	12388	136.90	376	206.90	1595	333.80	561
78.10	944	141.00	941	207.90	508	352.00	279
79.00	886	142.00	164	208.90	154	353.90	319
80.00	871	142.90	151	210.90	322	364.90	961
80.90	898	147.10	381	215.80	283	365.90	260
82.00	245	147.90	1093	216.90	1941	371.90	393
83.00	277	149.00	185	217.80	189	402.80	243
83.90	1246	152.90	288	220.90	1307	420.90	201
84.90	270	154.00	174	221.90	264	421.90	168
86.00	1031	155.00	357	222.90	513	422.90	1042
86.80	170	155.90	575	223.90	4439	423.90	427
87.80	210	158.80	181	224.90	1076	441.00	2899
91.10	274	159.90	166	226.90	1506	441.90	20296
92.00	216	161.00	231	227.90	249	442.90	4040
93.00	1622	161.80	154	228.90	431	443.80	375
96.10	173	164.90	360	236.90	266		

98.00	1204	165.90	281	241.90	202		
98.90	1225	167.00	1450	243.10	270		
101.00	530	167.90	1320	244.00	2986		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 03-JUN-2013 10:41
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\d-dftpp198.m
Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

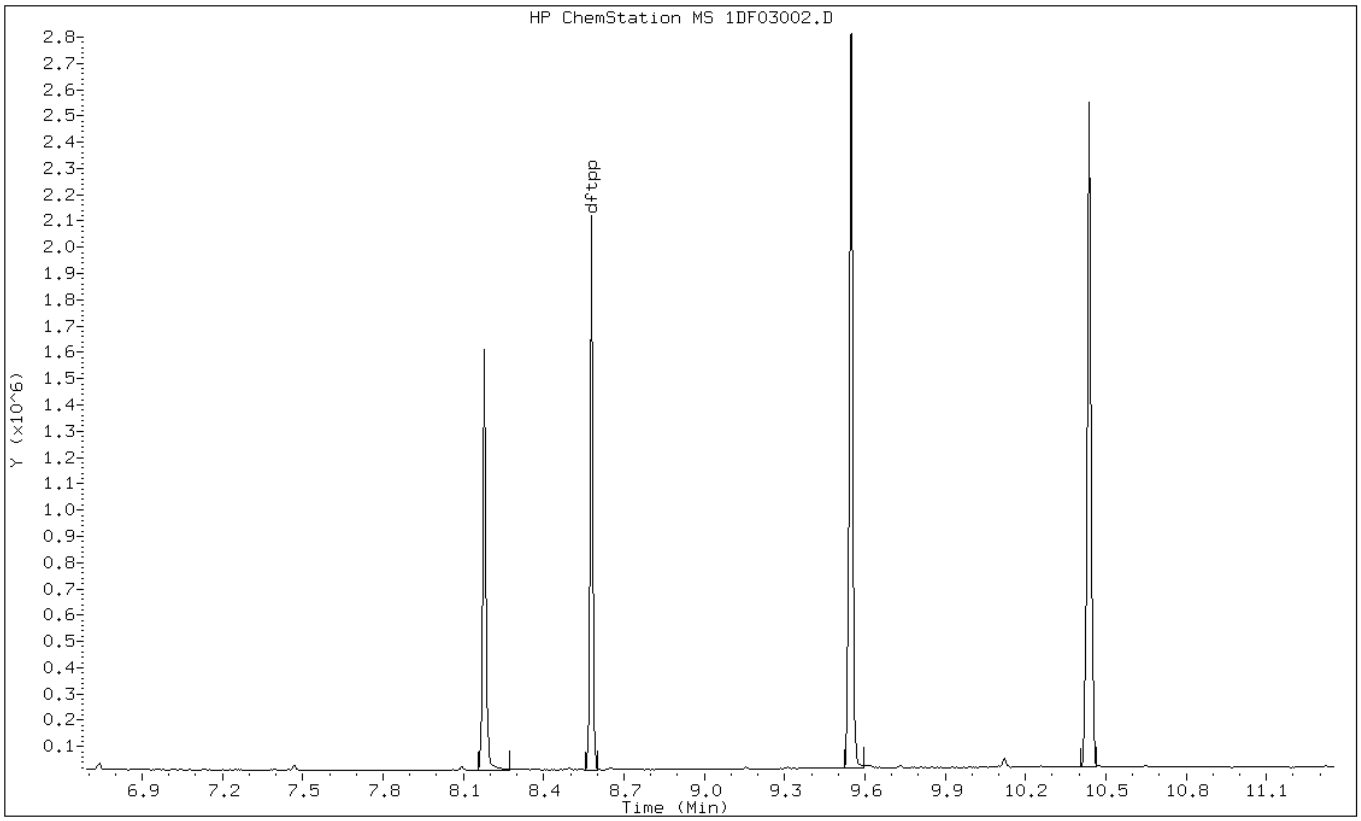
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.578	8.532	0.046	198	232960			50.00- 0.00	100.00
8.578	8.532	0.046	51	107192			10.00- 80.00	46.01
8.578	8.532	0.046	68	0	0.0	0.0	0.00- 2.00	0.00
8.578	8.532	0.046	69	108736			0.00- 0.00	46.68
8.578	8.532	0.046	70	529			0.00- 2.00	0.49
8.578	8.532	0.046	127	122064			10.00- 80.00	52.40
8.578	8.532	0.046	197	0	0.0	0.0	0.00- 2.00	0.00
8.578	8.532	0.046	442	134144			50.00- 0.00	57.58
8.578	8.532	0.046	199	16209			5.00- 9.00	6.96
8.578	8.532	0.046	275	60000			10.00- 60.00	25.76
8.578	8.532	0.046	365	8034			1.00- 0.00	3.45
8.578	8.532	0.046	441	19392			0.01- 99.99	77.27
8.578	8.532	0.046	443	25096			15.00- 24.00	18.71

Data File: 1DF03002.D

Date: 03-JUN-2013 10:41

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC



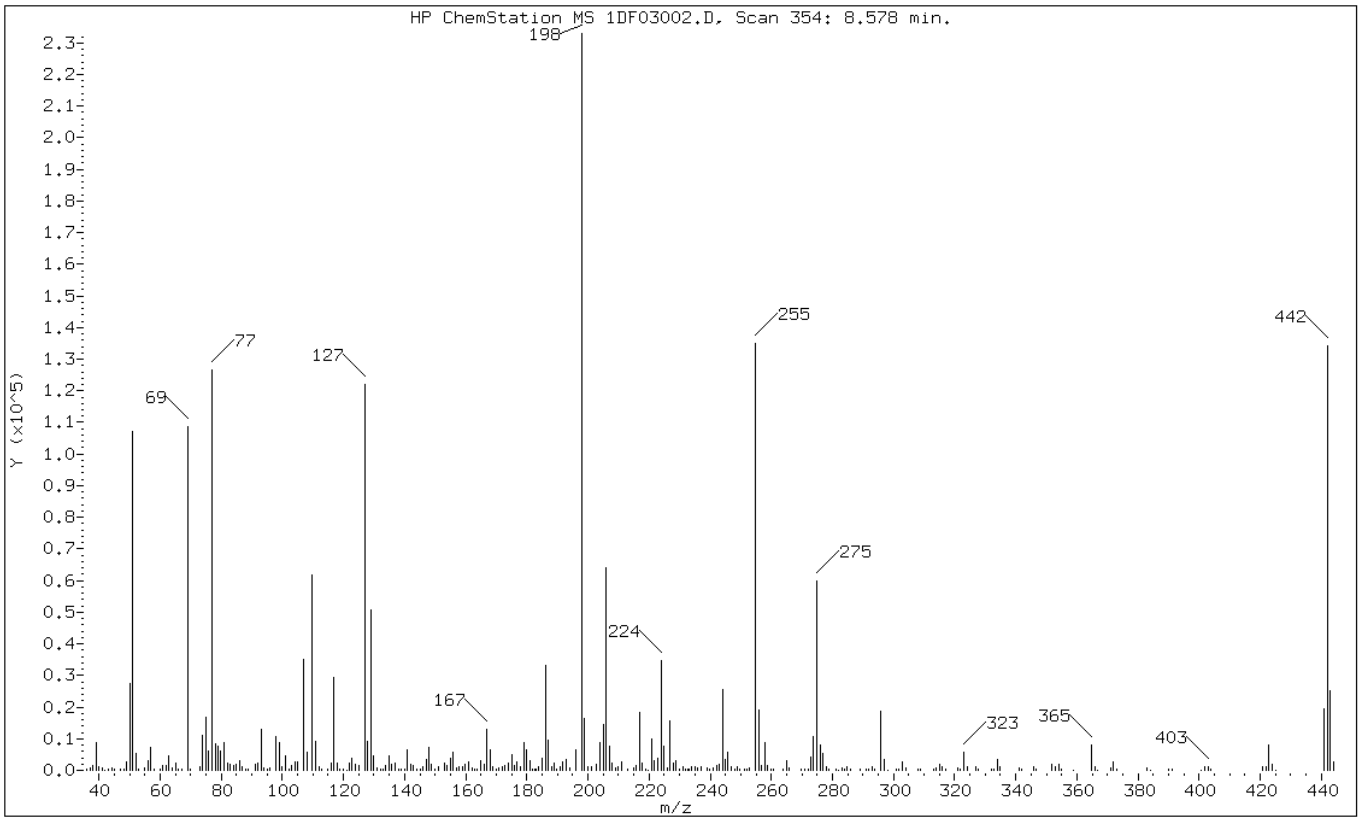
Data File: 1DF03002.D

Date: 03-JUN-2013 10:41

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	46.01
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.68
70	Less than 2.00% of mass 69	0.23 (0.49)
127	10.00 - 80.00% of mass 198	52.40
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	57.58
199	5.00 - 9.00% of mass 198	6.96
275	10.00 - 60.00% of mass 198	25.76
365	Greater than 1.00% of mass 198	3.45
441	Present, but less than mass 443	8.32
443	15.00 - 24.00% of mass 442	10.77 (18.71)

Data File: 1DF03002.D

Date: 03-JUN-2013 10:41

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03002.D
Spectrum: HP ChemStation MS 1DF03002.D, Scan 354: 8.578 min.
Location of Maximum: 197.90
Number of points: 288

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	338	119.90	546	194.00	801	278.00	1001
37.00	595	121.00	167	195.90	6555	278.90	219
38.10	1381	121.90	2292	197.90	232960	281.00	302
39.10	8734	122.90	3670	198.90	16209	282.00	189
40.00	1317	123.90	1777	199.90	1311	283.00	697
41.10	772	124.90	1670	201.30	1054	283.90	449
42.00	178	127.00	122064	202.90	1932	284.90	1034
42.90	394	127.90	9091	203.90	8682	285.80	192
44.10	657	128.90	50808	205.00	14417	288.90	201
45.10	380	129.90	4445	206.00	63872	290.90	204
47.00	402	131.00	865	207.00	7690	291.80	203
48.10	263	132.00	536	207.90	2159	292.90	1020
49.00	2641	133.00	280	208.90	791	294.00	311
50.00	27416	133.90	1499	210.00	1071	295.90	18528
51.00	107192	134.90	4592	211.00	2631	296.90	3258
52.00	5277	135.90	1757	213.10	193	298.00	189
53.00	317	137.00	2315	214.90	812	300.90	272
55.10	675	138.00	376	215.90	1448	301.80	196
56.00	3234	139.00	272	216.90	18128	303.00	2532
57.00	7402	139.90	537	217.90	2285	303.90	654
58.00	371	140.90	6472	218.80	228	308.00	420
60.10	194	142.00	2072	219.60	157	308.80	235
61.00	1552	142.90	1449	220.90	10097	313.00	191
62.00	1652	143.90	512	221.80	2982	313.90	853
63.00	4547	145.00	411	222.90	3901	315.00	2020
64.00	743	146.00	1165	224.00	34824	315.90	1204
65.00	2284	147.00	3289	225.00	7780	317.10	195
66.00	298	147.90	7297	225.90	931	320.90	639
67.10	316	148.90	1730	226.90	15453	321.90	293
69.00	108736	150.00	415	227.90	2341	323.00	5835
70.00	529	151.00	1111	228.90	3194	324.00	1115
73.00	1209	152.90	2120	229.90	341	326.90	1107
74.00	11231	153.90	1483	231.00	1110	327.90	437
75.00	16896	154.90	3934	232.10	197	331.90	418
76.00	6130	155.90	5890	232.80	295	333.00	568
77.00	126472	156.90	864	233.10	285	334.00	3470
78.00	8371	157.90	1064	233.80	988	335.00	1085
79.00	7744	158.90	962	234.90	1085	341.00	813
79.90	6278	159.90	1749	235.90	876	342.00	260
81.00	8814	161.00	2685	236.90	1149	345.90	1258

82.00	2327	162.00	846	238.90	780	346.80	250
83.10	1991	162.90	373	239.80	467	351.90	1859
83.90	1533	163.80	555	240.90	745	352.90	987
84.90	1737	164.80	2866	242.00	1620	354.00	1888
85.90	3110	166.00	1876	243.00	1788	354.90	299
87.00	1203	166.90	13062	244.00	25576	359.00	171
87.90	549	167.90	6318	244.90	3357	364.90	8034
89.00	283	168.90	1169	245.90	5899	365.80	1000
91.00	1911	170.00	412	247.00	1147	366.90	188
91.90	2383	171.00	664	248.00	195	371.00	622
93.00	12969	171.90	1098	248.90	1159	371.90	2695
94.00	865	172.90	1522	249.80	197	372.90	421
95.00	235	174.00	2437	251.10	210	382.90	609
95.90	860	175.00	4845	252.00	414	383.90	166
98.00	10585	175.90	1393	252.90	770	389.90	321
99.00	8695	176.90	2616	254.90	135040	391.00	416
99.90	961	177.90	1080	255.90	19064	400.80	170
101.00	4504	178.90	8740	256.90	1369	401.90	1159
102.10	250	179.90	6425	257.90	8849	402.90	1176
102.90	1439	180.90	3118	258.90	1681	403.90	370
104.00	2789	182.00	370	259.90	258	420.90	1048
105.00	2785	182.70	285	260.80	228	421.90	1053
107.00	35112	183.00	254	263.70	299	422.90	8010
108.00	5730	183.90	1035	265.00	3044	423.90	1859
109.90	61720	185.00	3909	265.90	755	424.90	186
110.90	9299	186.00	33120	269.80	295	440.90	19392
112.00	1242	187.00	9679	270.90	334	441.90	134144
112.90	434	188.00	1154	272.00	414	442.90	25096
114.90	303	188.90	2392	272.90	4126	444.00	2546
115.90	2110	189.80	390	273.90	10792		
116.90	29392	191.00	1137	274.90	60000		
117.90	2309	191.90	2757	275.90	7922		
118.90	396	193.00	3312	276.90	5498		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: | Lab Sample ID: MB 660-137790/1-A

Matrix: Solid | Lab File ID: 1DE29006.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 15.10(g) | Date Analyzed: 05/29/2013 15:37

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

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

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

Analysis Batch No.: 137911 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
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	5.84	J	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\1DE29006.D
Lab Smp Id: MB 660-137790/1-A
Inj Date : 29-MAY-2013 15:37
Operator : SCC Inst ID: BSMSD.i
Smp Info : MB 660-137790/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\dFASTPAHi.m
Meth Date : 29-May-2013 15:34 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.100	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.278	6.277	(1.000)	4399025	40.0000	
* 7 Acenaphthene-d10	164	7.947	7.945	(1.000)	2464734	40.0000	
* 11 Phenanthrene-d10	188	9.204	9.197	(1.000)	3930946	40.0000	
$ 15 o-Terphenyl	230	9.510	9.508	(1.033)	379854	6.59590	440
* 19 Chrysene-d12	240	11.560	11.559	(1.000)	3792255	40.0000	
* 24 Perylene-d12	264	13.464	13.456	(1.000)	3874355	40.0000	
2 Naphthalene	128	6.296	6.294	(1.003)	4073	0.03755	2.5(Q)
12 Phenanthrene	178	9.216	9.214	(1.001)	9394	0.08824	5.8(M)

QC Flag Legend

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

Data File: 1DE29006.D

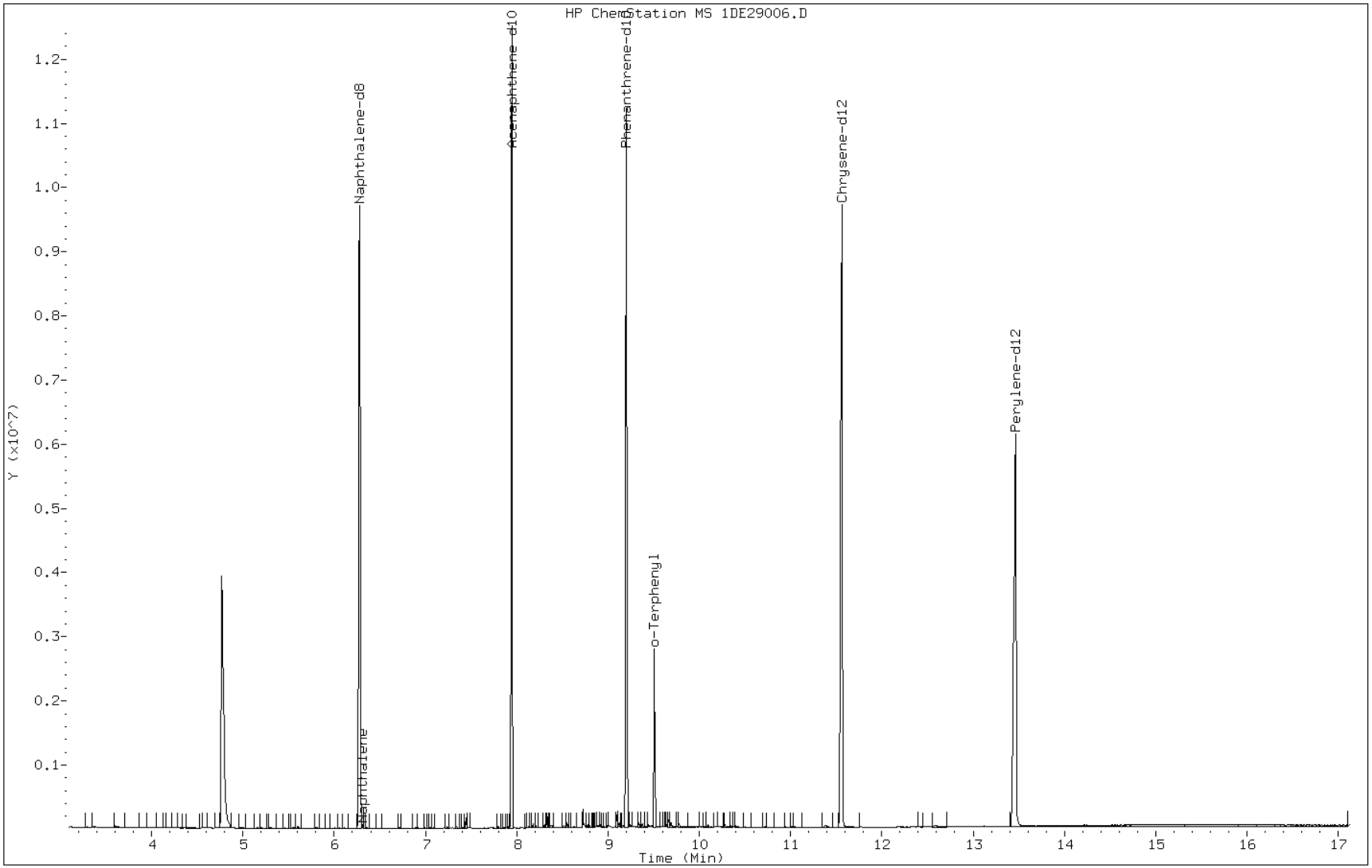
Date: 29-MAY-2013 15:37

Client ID:

Instrument: BSMSD.i

Sample Info: MB 660-137790/1-A

Operator: SCC



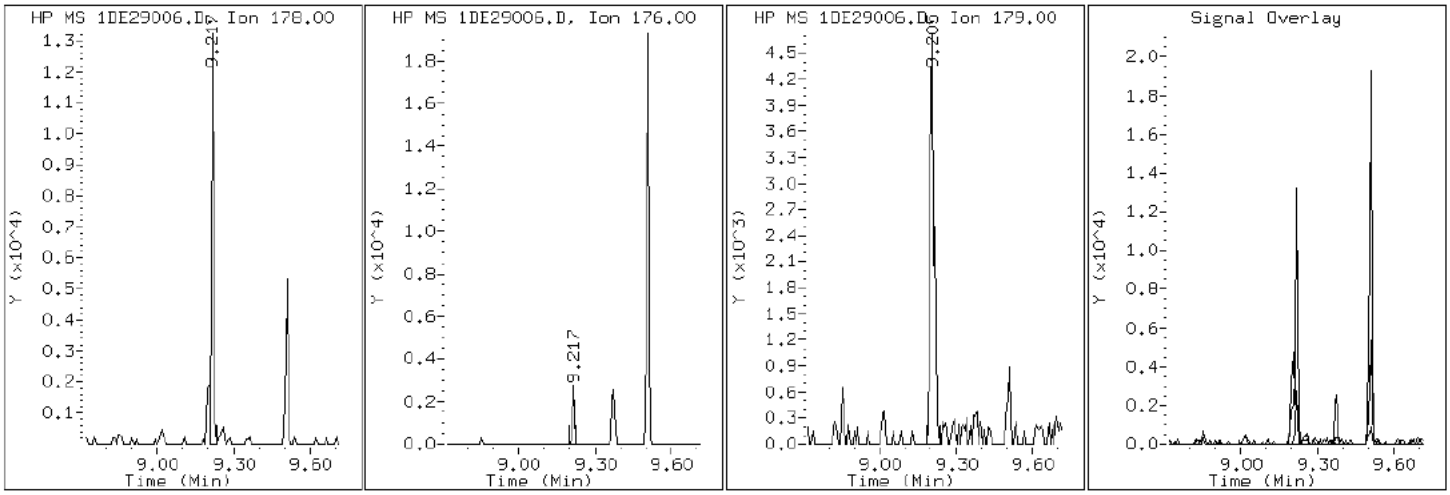
Data File: 1DE29006.D

Date: 29-MAY-2013 15:37

Client ID: Instrument: BSMSD.i

Sample Info: MB 660-137790/1-A Operator: SCC

12 Phenanthrene



Manual Integration Report

Data File: 1DE29006.D
Inj. Date and Time: 29-MAY-2013 15:37
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Phenanthrene
CAS #: 85-01-8
Report Date: 05/30/2013

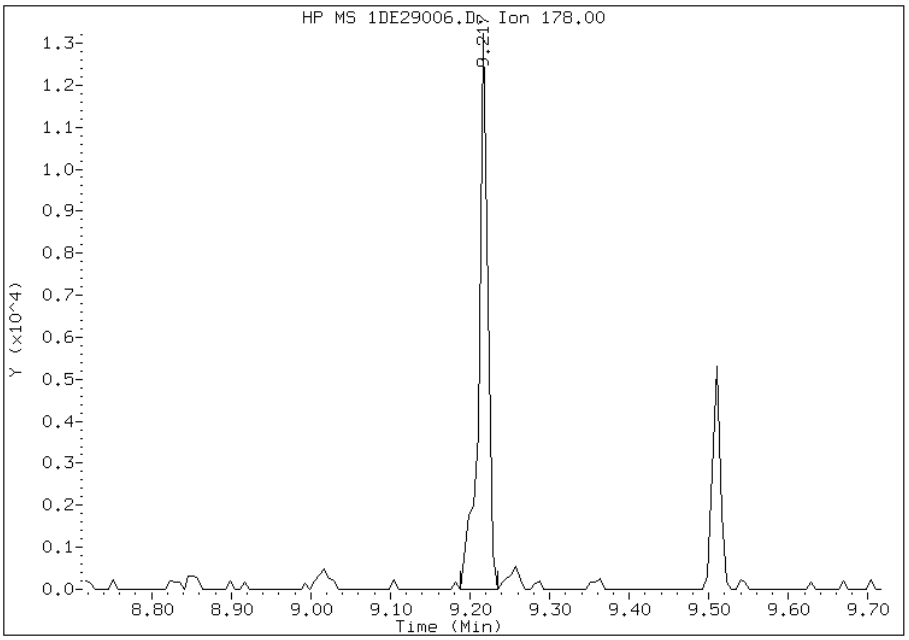
Processing Integration Results

RT: 9.22

Response: 10289

Amount: 0

Conc: 6



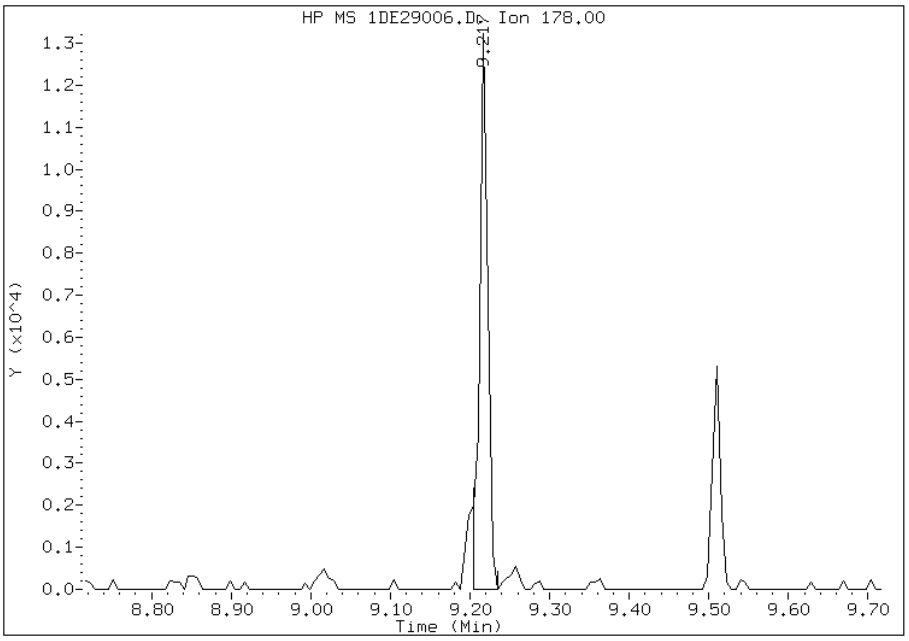
Manual Integration Results

RT: 9.22

Response: 9394

Amount: 0

Conc: 6



Manually Integrated By: cantins
Modification Date: 29-May-2013 15:57
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: | Lab Sample ID: MB 660-137845/1-A

Matrix: Solid | Lab File ID: 1AE29009.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/29/2013 06:31

Sample wt/vol: 15.29(g) | Date Analyzed: 05/29/2013 16:04

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

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

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

Analysis Batch No.: 137876 | Units: ug/Kg

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	49		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29009.D
Lab Smp Id: MB 660-137845/1-A
Inj Date : 29-MAY-2013 16:04
Operator : SCC Inst ID: BSMA5973.i
Smp Info : MB 660-137845/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-bFASTPAHi-m.m
Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.509	2.512	(1.000)	1343682	40.0000	
* 7 Acenaphthene-d10	164	3.534	3.533	(1.000)	846854	40.0000	
* 11 Phenanthrene-d10	188	4.480	4.478	(1.000)	1211040	40.0000	
$ 15 o-Terphenyl	230	4.768	4.772	(1.064)	86551	4.94132	323.1730
* 19 Chrysene-d12	240	6.488	6.492	(1.000)	1139541	40.0000	
* 24 Perylene-d12	264	7.578	7.571	(1.000)	1014927	40.0000	
12 Phenanthrene	178	4.490	4.494	(1.002)	939	0.03443	2.2516(Q)

QC Flag Legend

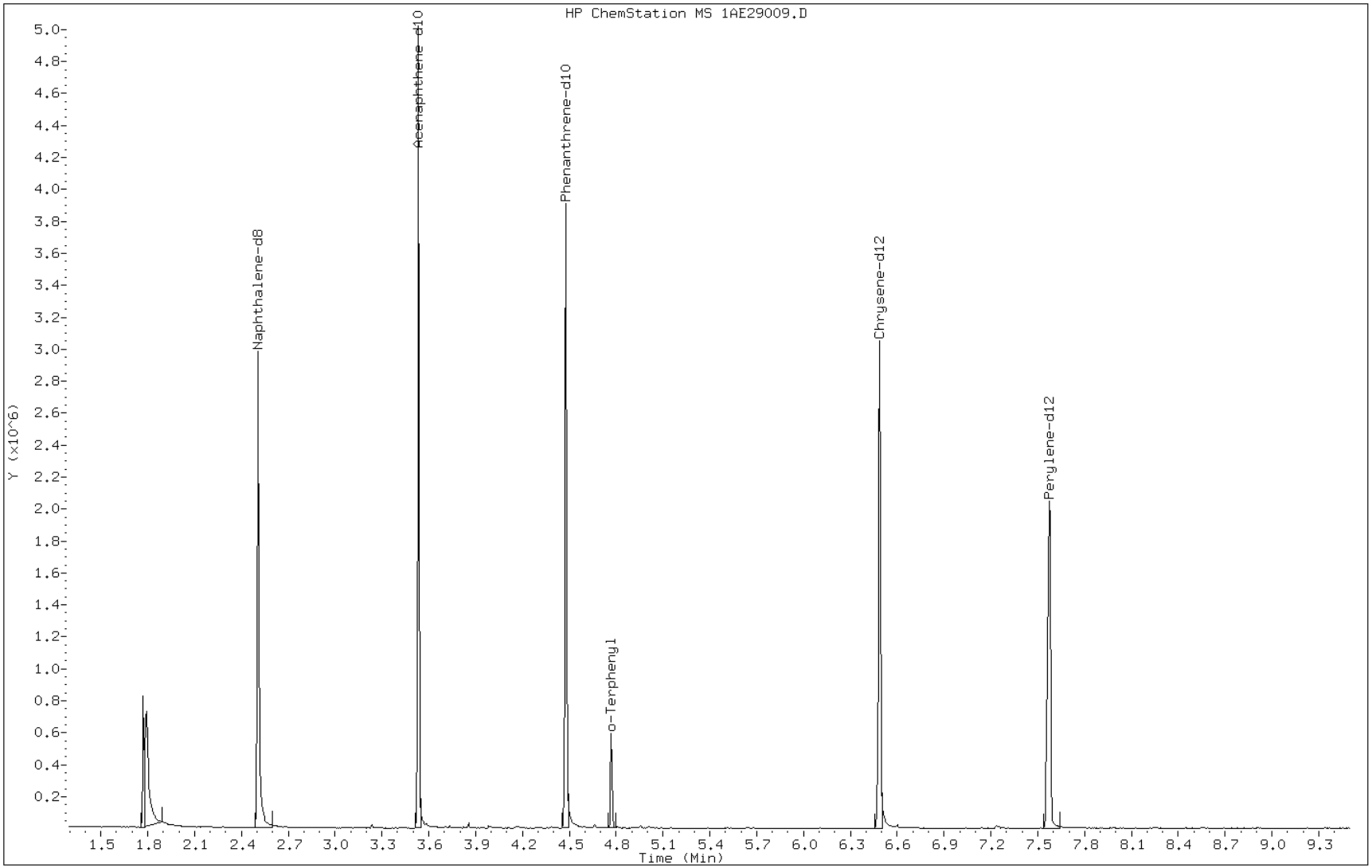
Q - Qualifier signal failed the ratio test.

Data File: 1AE29009.D

Date: 29-MAY-2013 16:04

Client ID: Instrument: BSMA5973.i

Sample Info: MB 660-137845/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: | Lab Sample ID: LCS 660-137790/2-A

Matrix: Solid | Lab File ID: 1DE29007.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 14.96(g) | Date Analyzed: 05/29/2013 16:39

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

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

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

Analysis Batch No.: 137911 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	508		100	20
208-96-8	Acenaphthylene	549		40	5.0
120-12-7	Anthracene	565		8.4	4.2
56-55-3	Benzo[a]anthracene	526		8.0	3.9
50-32-8	Benzo[a]pyrene	487		10	5.2
205-99-2	Benzo[b]fluoranthene	536		12	6.1
191-24-2	Benzo[g,h,i]perylene	545		20	4.4
207-08-9	Benzo[k]fluoranthene	558		8.0	3.6
218-01-9	Chrysene	546		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	503		20	4.1
206-44-0	Fluoranthene	563		20	4.0
86-73-7	Fluorene	555		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	470		20	7.1
90-12-0	1-Methylnaphthalene	493		40	4.4
91-57-6	2-Methylnaphthalene	528		40	7.1
91-20-3	Naphthalene	510		40	4.4
85-01-8	Phenanthrene	544		8.0	3.9
129-00-0	Pyrene	562		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	76		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\1DE29007.D
Lab Smp Id: LCS 660-137790/2-A
Inj Date : 29-MAY-2013 16:39
Operator : SCC Inst ID: BSMSD.i
Smp Info : LCS 660-137790/2-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\dFASTPAHi.m
Meth Date : 29-May-2013 17:42 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.278	6.277	(1.000)	3964298	40.0000	
* 7 Acenaphthene-d10	164	7.946	7.945	(1.000)	2308263	40.0000	
* 11 Phenanthrene-d10	188	9.204	9.197	(1.000)	3802832	40.0000	
$ 15 o-Terphenyl	230	9.515	9.508	(1.034)	422965	7.59192	510
* 19 Chrysene-d12	240	11.566	11.559	(1.000)	3638206	40.0000	
* 24 Perylene-d12	264	13.469	13.456	(1.000)	3726255	40.0000	
2 Naphthalene	128	6.301	6.294	(1.004)	746143	7.63227	510
3 2-Methylnaphthalene	142	6.994	6.993	(1.114)	491528	7.89650	530
4 1-Methylnaphthalene	142	7.088	7.087	(1.129)	473021	7.38148	490
5 1,1'-Biphenyl	154	7.435	7.428	(0.936)	935	0.01199	0.80(aR)
6 Acenaphthylene	152	7.817	7.816	(0.984)	785476	8.20735	550
8 Acenaphthene	154	7.976	7.969	(1.004)	461835	7.60700	510
9 Dibenzofuran	168	8.123	8.116	(1.022)	677714	8.09572	540
10 Fluorene	166	8.416	8.409	(1.059)	570854	8.31022	560
12 Phenanthrene	178	9.221	9.214	(1.002)	838481	8.14113	540

						CONCENTRATIONS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.262	9.255	(1.006)	844383	8.44959	560
16 Fluoranthene	202	10.202	10.195	(1.109)	887135	8.41957	560
17 Pyrene	202	10.390	10.383	(0.898)	895142	8.40367	560
18 Benzo(a)anthracene	228	11.542	11.541	(0.998)	850075	7.87295	530
20 Chrysene	228	11.589	11.582	(1.002)	793796	8.16423	540
21 Benzo(b)fluoranthene	252	12.899	12.898	(0.958)	748388	8.01692	540
22 Benzo(k)fluoranthene	252	12.940	12.939	(0.961)	815381	8.34089	560
23 Benzo(a)pyrene	252	13.363	13.362	(0.992)	664630	7.29011	490
25 Indeno(1,2,3-cd)pyrene	276	15.103	15.101	(1.121)	667089	7.03548	470
26 Dibenzo(a,h)anthracene	278	15.144	15.143	(1.124)	663953	7.52734	500
27 Benzo(g,h,i)perylene	276	15.578	15.577	(1.157)	689434	8.14839	540

QC Flag Legend

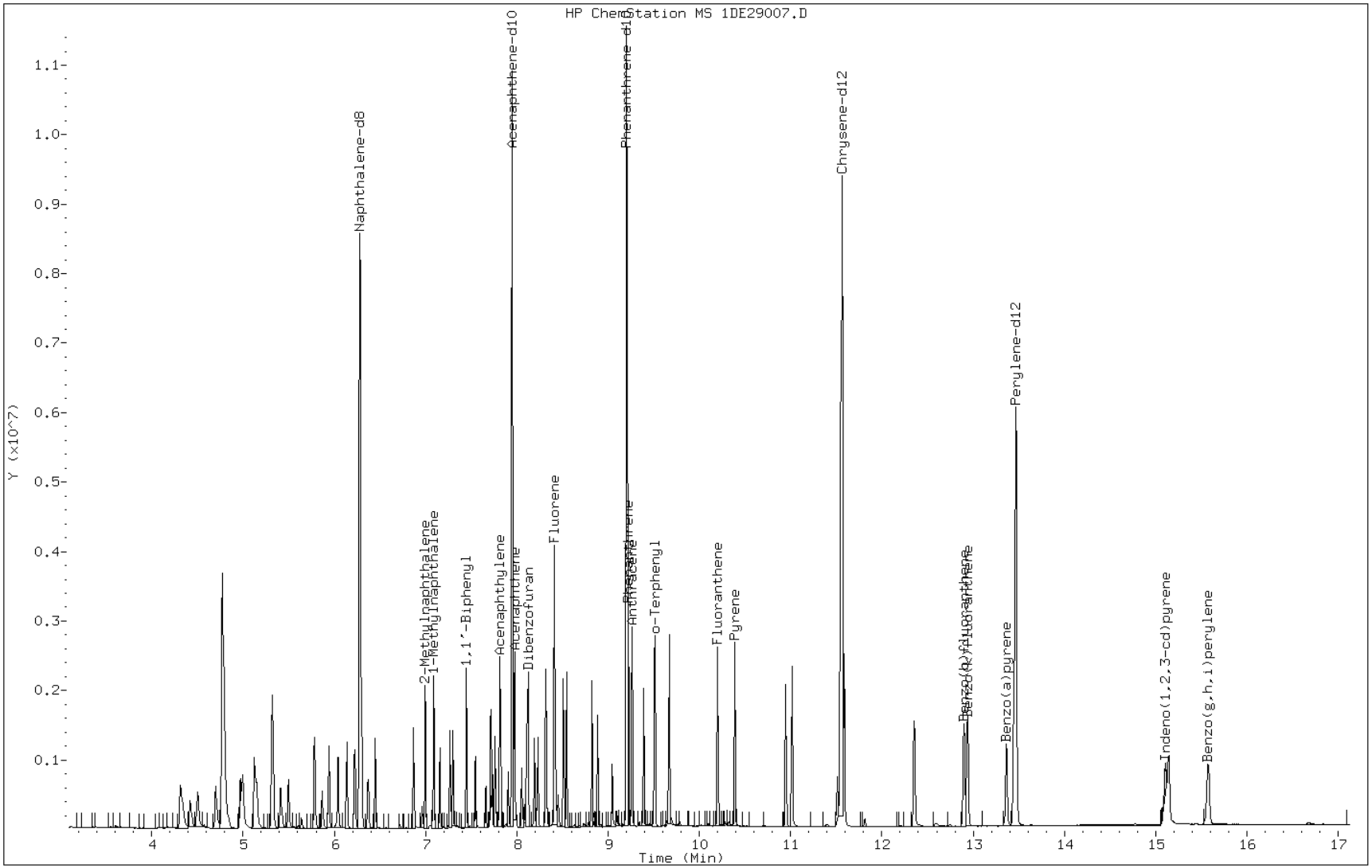
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: 1DE29007.D

Date: 29-MAY-2013 16:39

Client ID: Instrument: BSMSD.i

Sample Info: LCS 660-137790/2-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: | Lab Sample ID: LCS 660-137845/2-A

Matrix: Solid | Lab File ID: 1AE29012.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/29/2013 06:31

Sample wt/vol: 15.38(g) | Date Analyzed: 05/29/2013 16:58

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

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

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

Analysis Batch No.: 137876 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	395		98	20
208-96-8	Acenaphthylene	383		39	4.9
120-12-7	Anthracene	362		8.2	4.1
56-55-3	Benzo[a]anthracene	417		7.8	3.8
50-32-8	Benzo[a]pyrene	320		10	5.1
205-99-2	Benzo[b]fluoranthene	261		12	5.9
191-24-2	Benzo[g,h,i]perylene	412		20	4.3
207-08-9	Benzo[k]fluoranthene	368		7.8	3.5
218-01-9	Chrysene	429		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	346		20	4.0
206-44-0	Fluoranthene	328		20	3.9
86-73-7	Fluorene	415		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	314		20	6.9
90-12-0	1-Methylnaphthalene	428		39	4.3
91-57-6	2-Methylnaphthalene	405		39	6.9
91-20-3	Naphthalene	412		39	4.3
85-01-8	Phenanthrene	396		7.8	3.8
129-00-0	Pyrene	395		20	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29012.D
Lab Smp Id: lcs 660-137845/2-a
Inj Date : 29-MAY-2013 16:58
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-137845/2-a
Misc Info : RE-RUN W/DIFF INT
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-bFASTPAHi-m.m
Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.380	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.506	2.512	(1.000)	1203952	40.0000	
*	7 Acenaphthene-d10	164	3.537	3.533	(1.000)	731060	40.0000	
*	11 Phenanthrene-d10	188	4.482	4.478	(1.000)	1210659	40.0000	
$	15 o-Terphenyl	230	4.771	4.772	(1.064)	95805	5.47136	355.7451
*	19 Chrysene-d12	240	6.496	6.492	(1.000)	980501	40.0000	
*	24 Perylene-d12	264	7.581	7.571	(1.000)	811272	40.0000	
	2 Naphthalene	128	2.517	2.518	(1.004)	172890	6.34253	412.3884(M)
	3 2-Methylnaphthalene	141	2.922	2.924	(1.166)	80853	6.22960	405.0454(M)
	4 1-Methylnaphthalene	142	2.976	2.977	(1.188)	124871	6.58694	428.2795(M)
	6 Acenaphthylene	152	3.446	3.447	(0.974)	188534	5.89403	383.2269
	8 Acenaphthene	154	3.553	3.554	(1.005)	103816	6.07232	394.8192
	9 Dibenzofuran	168	3.654	3.655	(1.033)	156215	5.96821	388.0498
	10 Fluorene	166	3.863	3.864	(1.092)	126619	6.37969	414.8044
	12 Phenanthrene	178	4.493	4.494	(1.002)	166177	6.09461	396.2685

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Anthracene	178	4.525	4.526	(1.010)	158805	5.56736	361.9868
16 Fluoranthene	202	5.353	5.354	(1.194)	171714	5.04395	327.9551
17 Pyrene	202	5.513	5.515	(0.849)	179418	6.07260	394.8373(M)
18 Benzo(a)anthracene	228	6.480	6.481	(0.998)	177149	6.41182	416.8935
20 Chrysene	228	6.507	6.508	(1.002)	172694	6.59777	428.9838(M)
21 Benzo(b)fluoranthene	252	7.298	7.299	(0.963)	93437	4.01602	261.1199(H)
22 Benzo(k)fluoranthene	252	7.314	7.320	(0.965)	152955	5.66677	368.4506(M)
23 Benzo(a)pyrene	252	7.522	7.523	(0.992)	97495	4.92650	320.3186
25 Indeno(1,2,3-cd)pyrene	276	8.313	8.314	(1.097)	93758	4.82994	314.0405(M)
26 Dibenzo(a,h)anthracene	278	8.334	8.341	(1.099)	101697	5.32362	346.1393(M)
27 Benzo(g,h,i)perylene	276	8.521	8.522	(1.124)	110268	6.33446	411.8635(M)

QC Flag Legend

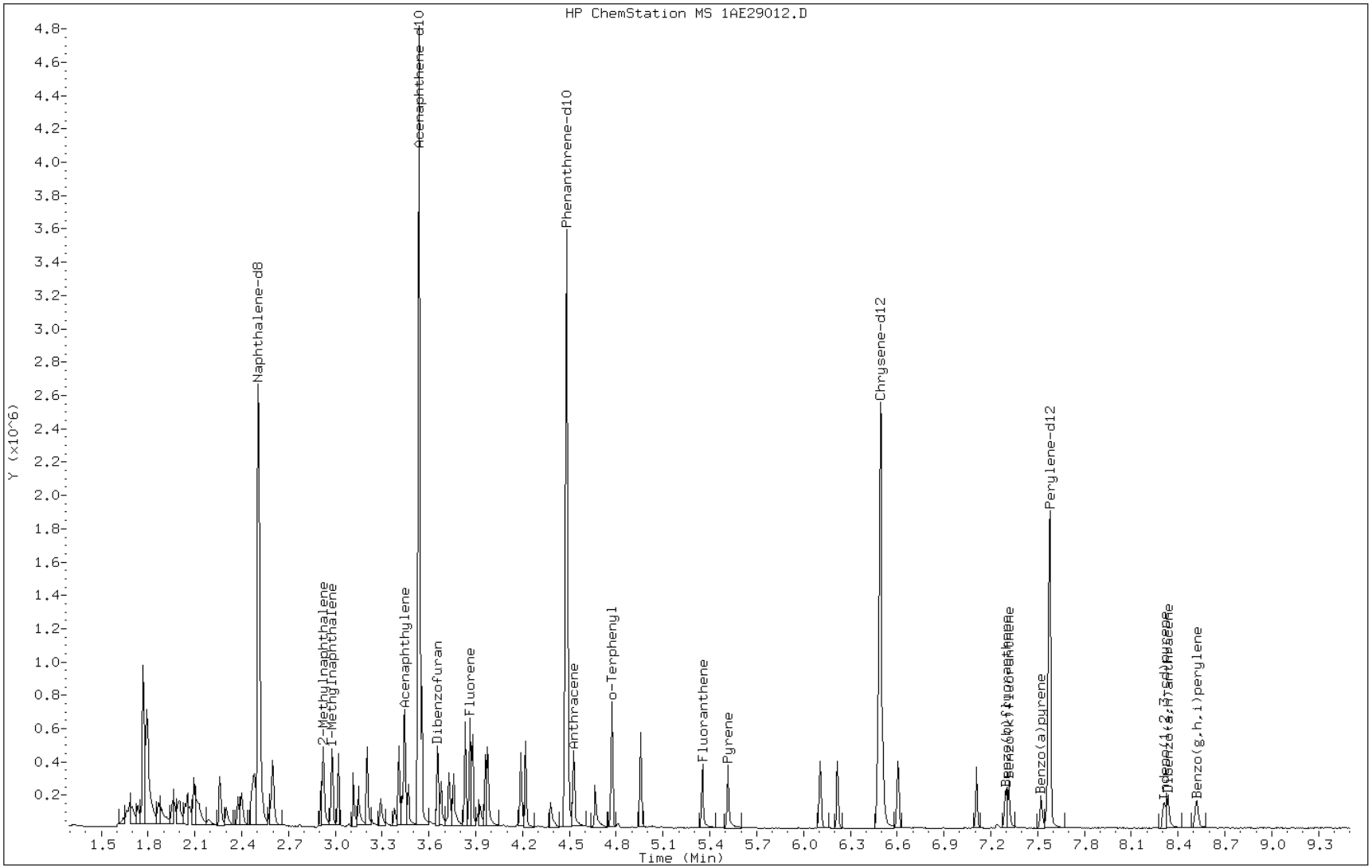
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE29012.D

Date: 29-MAY-2013 16:58

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-137845/2-a Operator: SCC



Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/30/2013

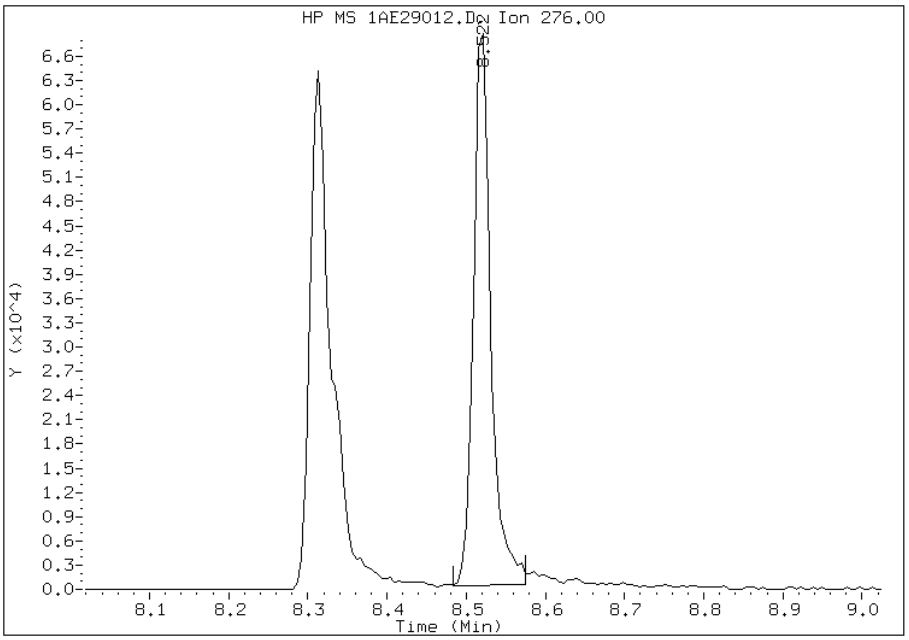
Processing Integration Results

RT: 8.52

Response: 103454

Amount: 6

Conc: 386



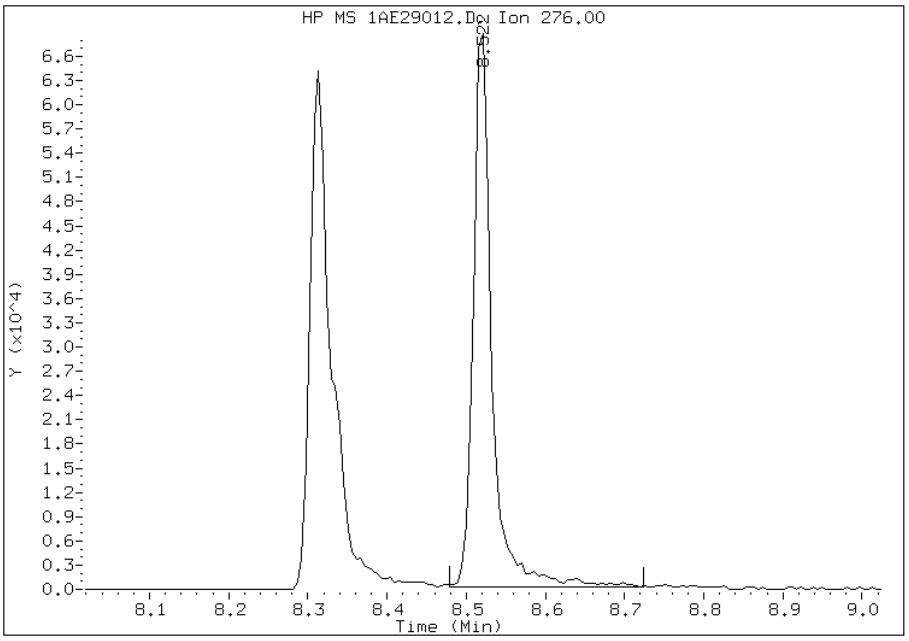
Manual Integration Results

RT: 8.52

Response: 110268

Amount: 6

Conc: 412



Manually Integrated By: cantins
Modification Date: 30-May-2013 10:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/30/2013

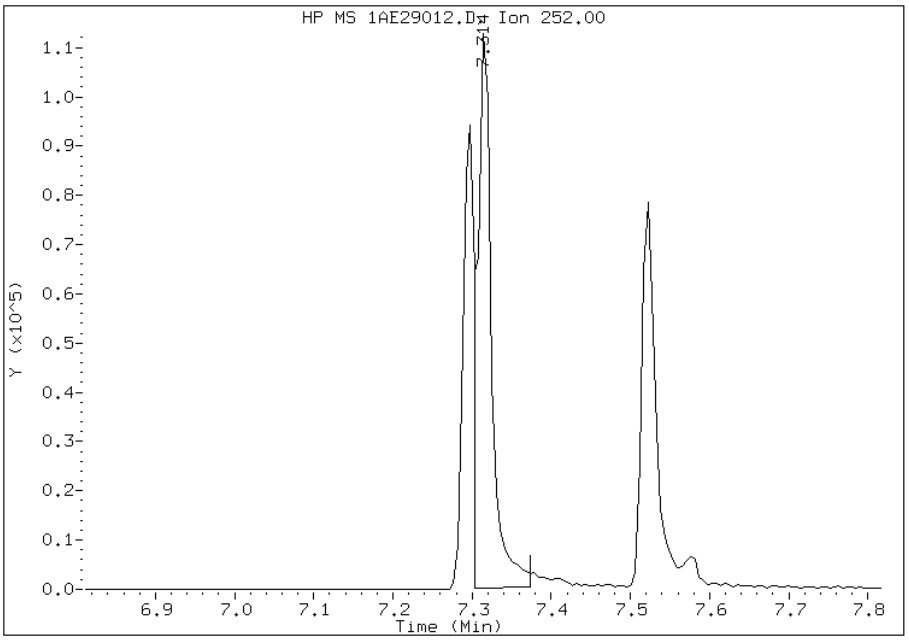
Processing Integration Results

RT: 7.31

Response: 144132

Amount: 5

Conc: 347



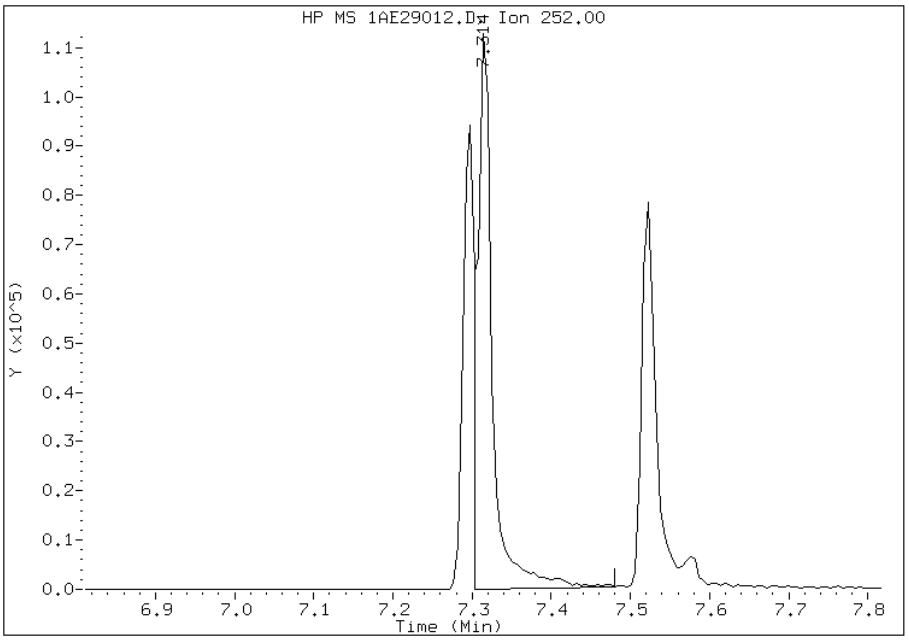
Manual Integration Results

RT: 7.31

Response: 152955

Amount: 6

Conc: 368



Manually Integrated By: cantins
Modification Date: 30-May-2013 10:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 05/30/2013

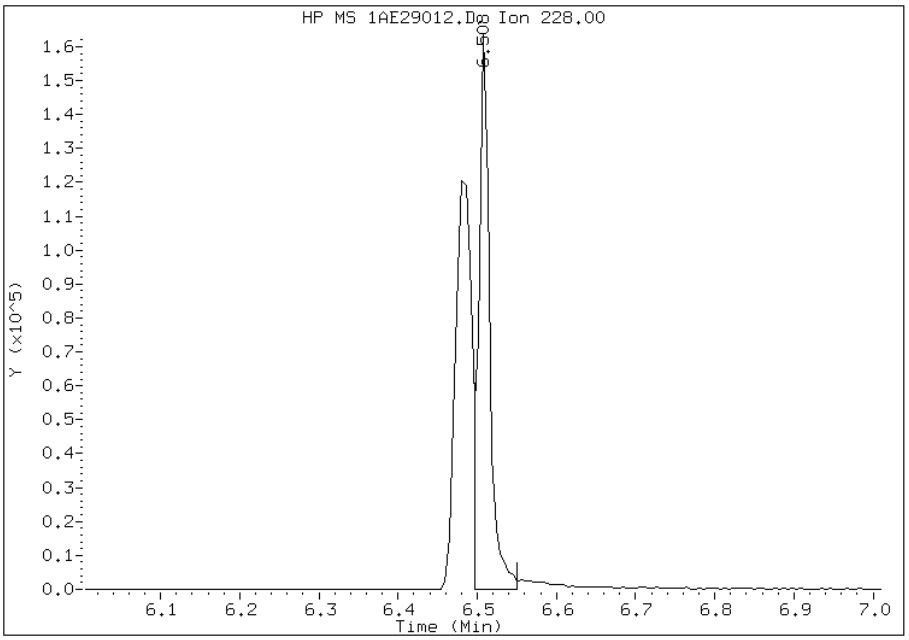
Processing Integration Results

RT: 6.51

Response: 159696

Amount: 6

Conc: 397



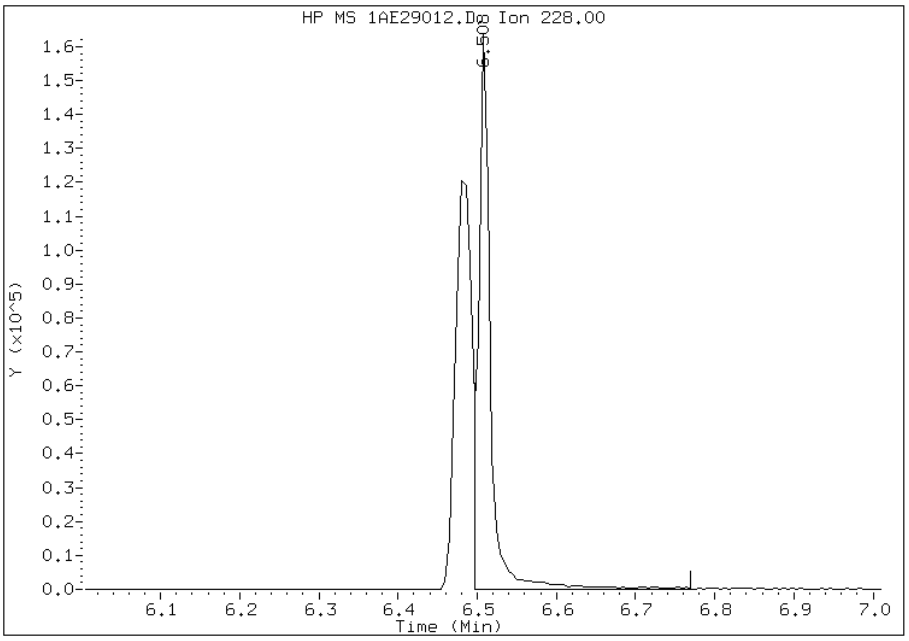
Manual Integration Results

RT: 6.51

Response: 172694

Amount: 7

Conc: 429



Manually Integrated By: cantins
Modification Date: 30-May-2013 10:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/30/2013

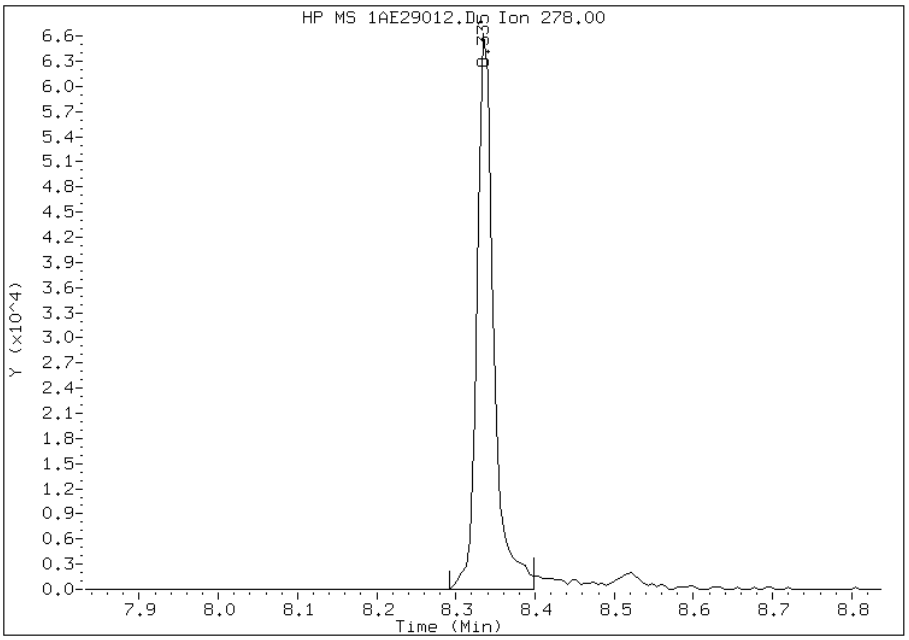
Processing Integration Results

RT: 8.33

Response: 96481

Amount: 5

Conc: 329



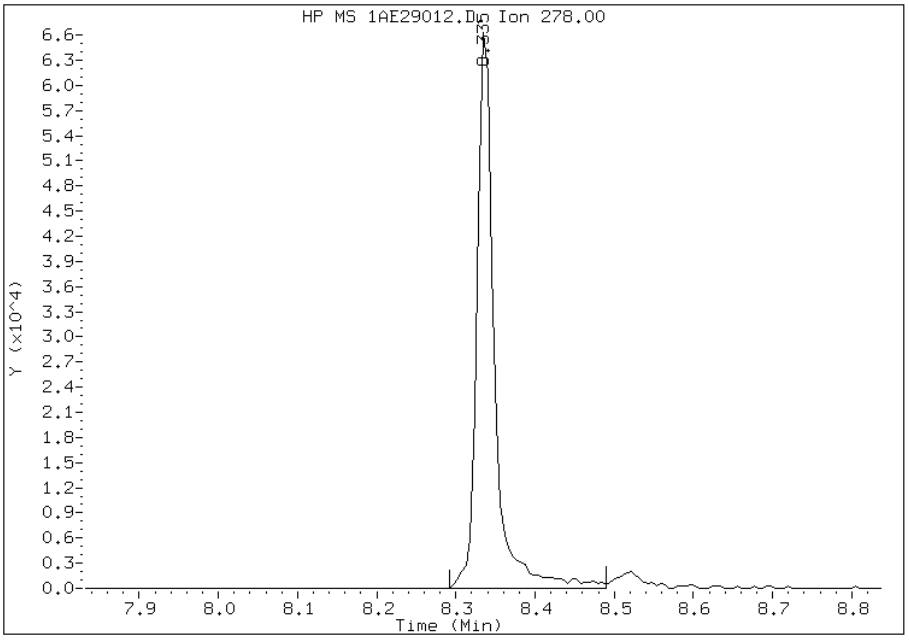
Manual Integration Results

RT: 8.33

Response: 101697

Amount: 5

Conc: 346



Manually Integrated By: cantins
Modification Date: 30-May-2013 10:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/30/2013

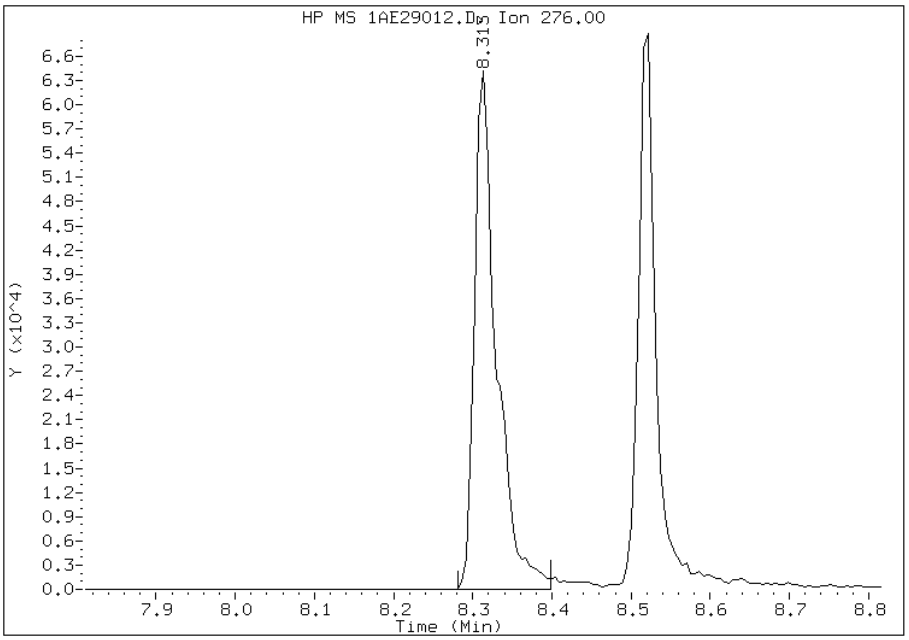
Processing Integration Results

RT: 8.31

Response: 122981

Amount: 6

Conc: 409



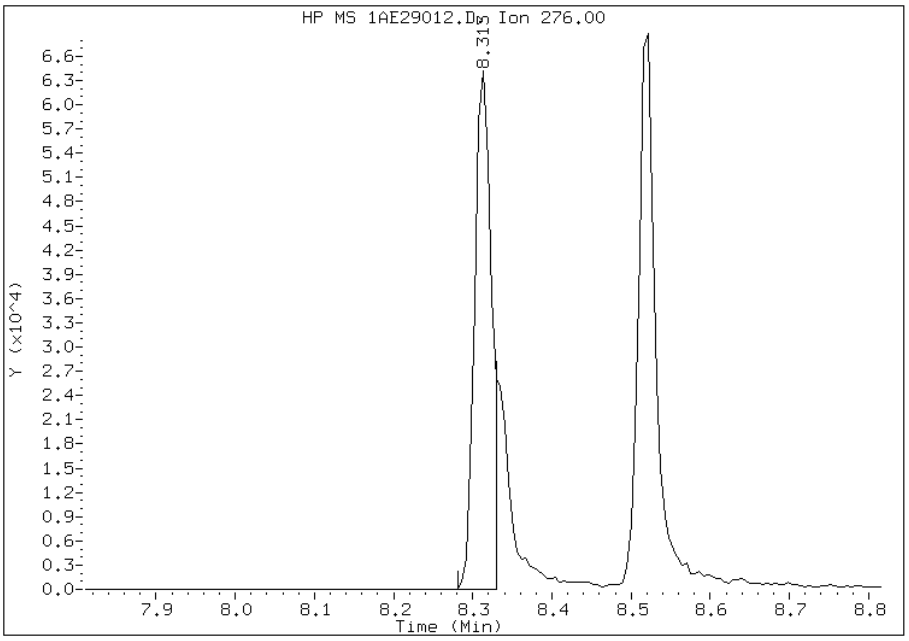
Manual Integration Results

RT: 8.31

Response: 93758

Amount: 5

Conc: 314



Manually Integrated By: cantins
Modification Date: 30-May-2013 10:01
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 05/30/2013

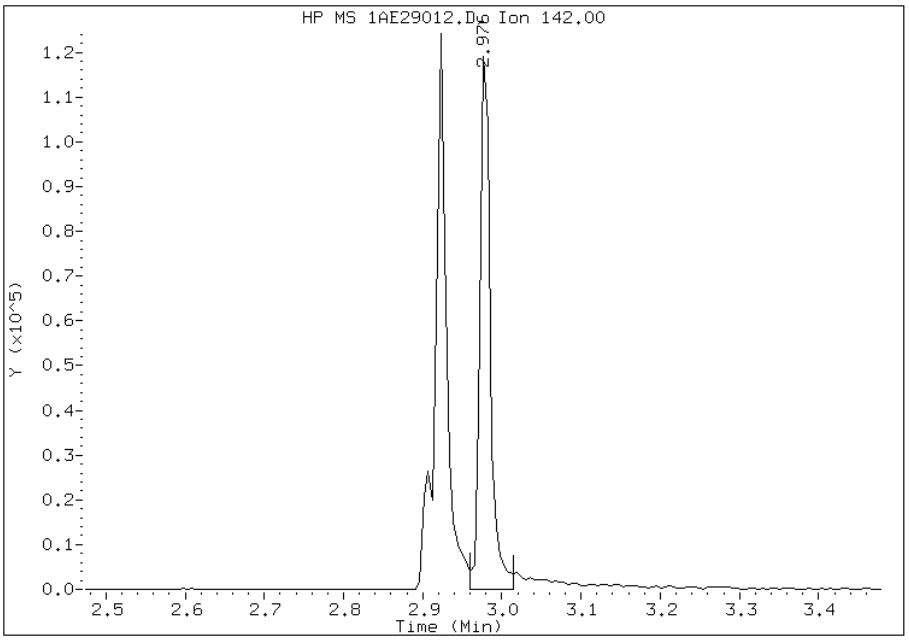
Processing Integration Results

RT: 2.98

Response: 107429

Amount: 6

Conc: 368



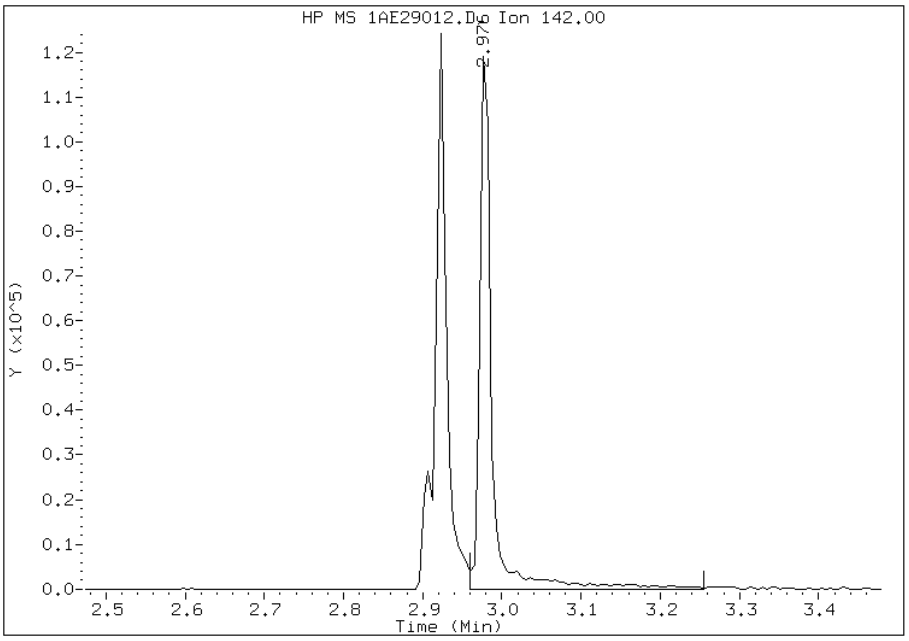
Manual Integration Results

RT: 2.98

Response: 124871

Amount: 7

Conc: 428



Manually Integrated By: cantins
Modification Date: 30-May-2013 10:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 3 2-Methylnaphthalene
CAS #: 91-57-6
Report Date: 05/30/2013

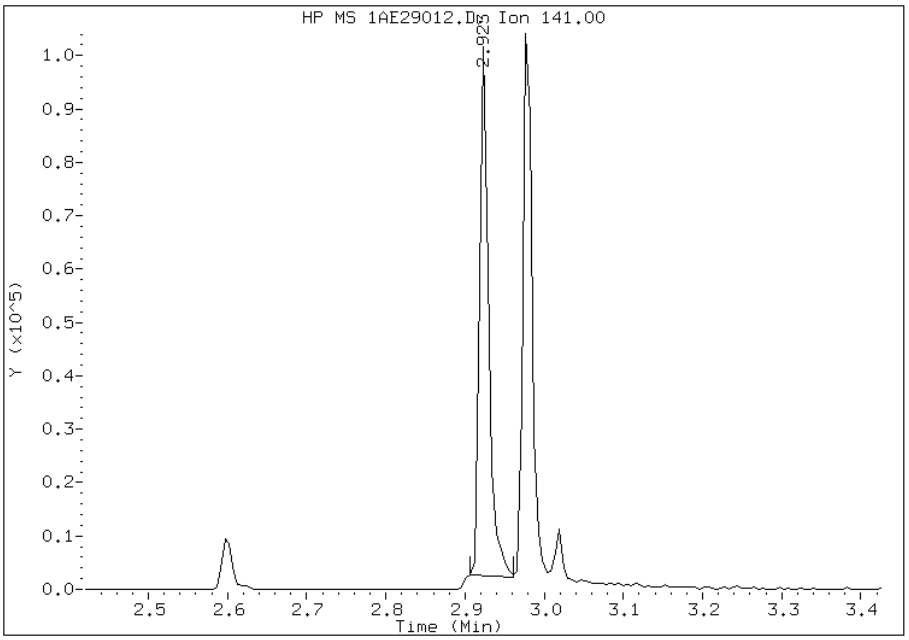
Processing Integration Results

RT: 2.92

Response: 76091

Amount: 6

Conc: 381



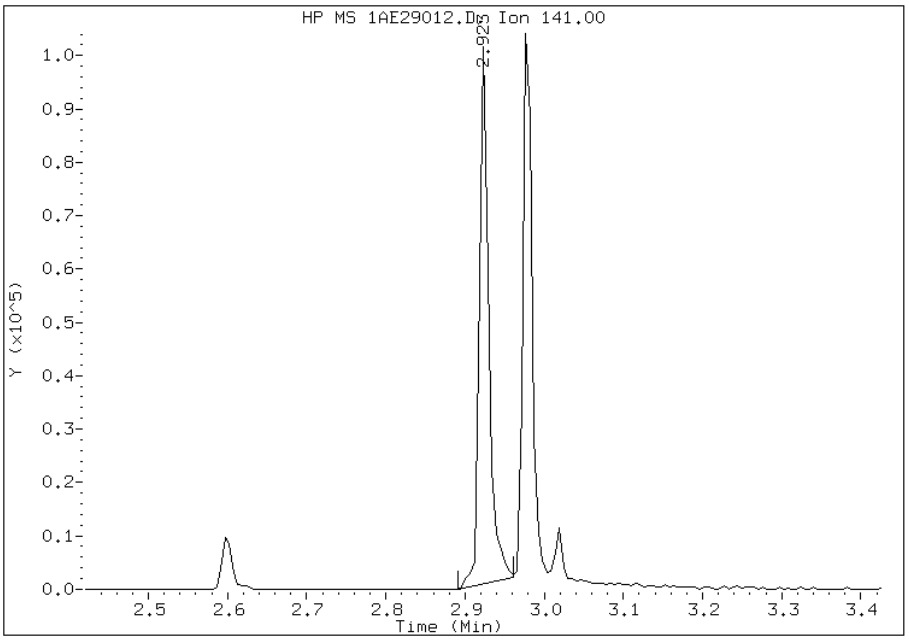
Manual Integration Results

RT: 2.92

Response: 80853

Amount: 6

Conc: 405



Manually Integrated By: cantins
Modification Date: 30-May-2013 10:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/30/2013

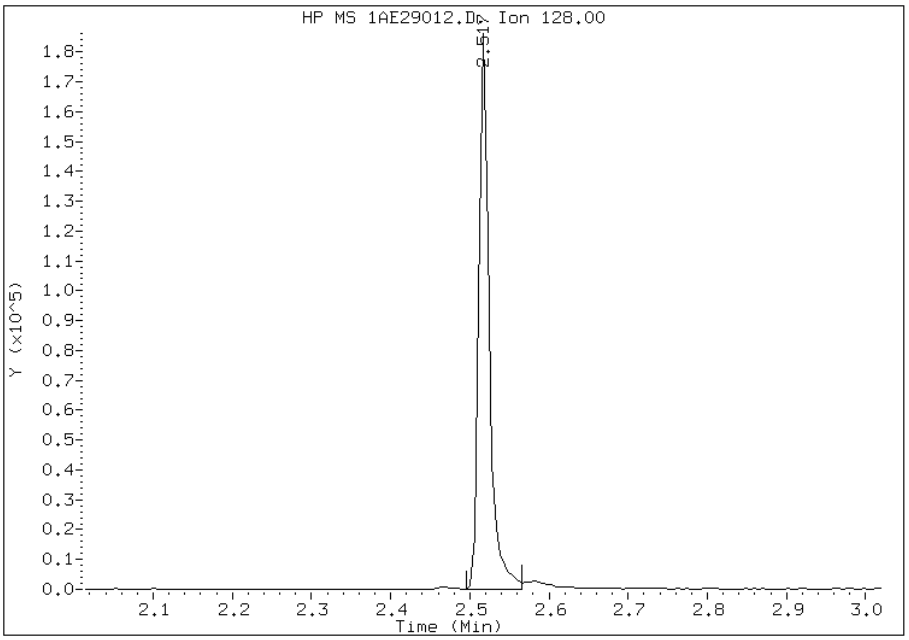
Processing Integration Results

RT: 2.52

Response: 166007

Amount: 6

Conc: 396



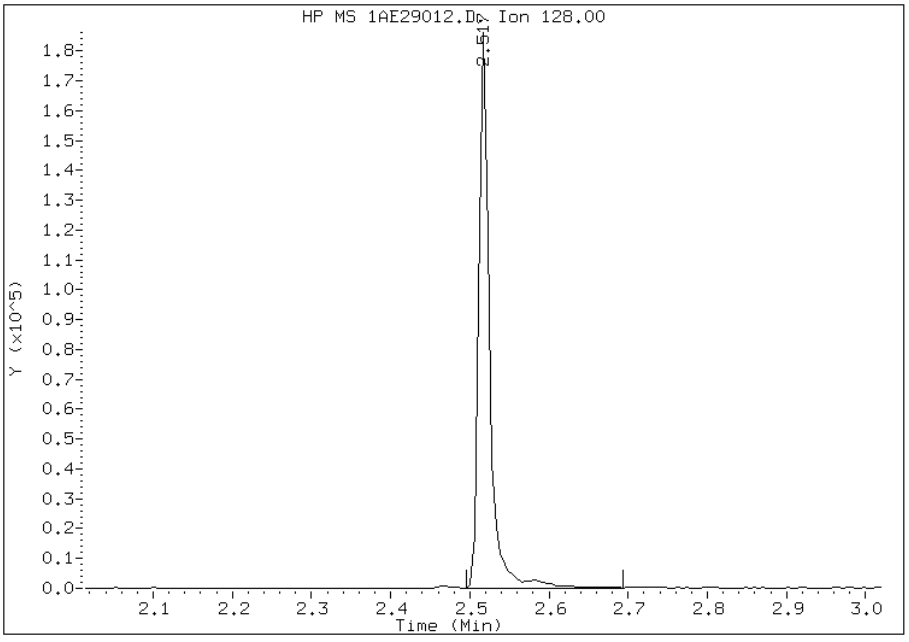
Manual Integration Results

RT: 2.52

Response: 172890

Amount: 6

Conc: 412



Manually Integrated By: cantins
Modification Date: 30-May-2013 10:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 17 Pyrene
CAS #: 129-00-0
Report Date: 05/30/2013

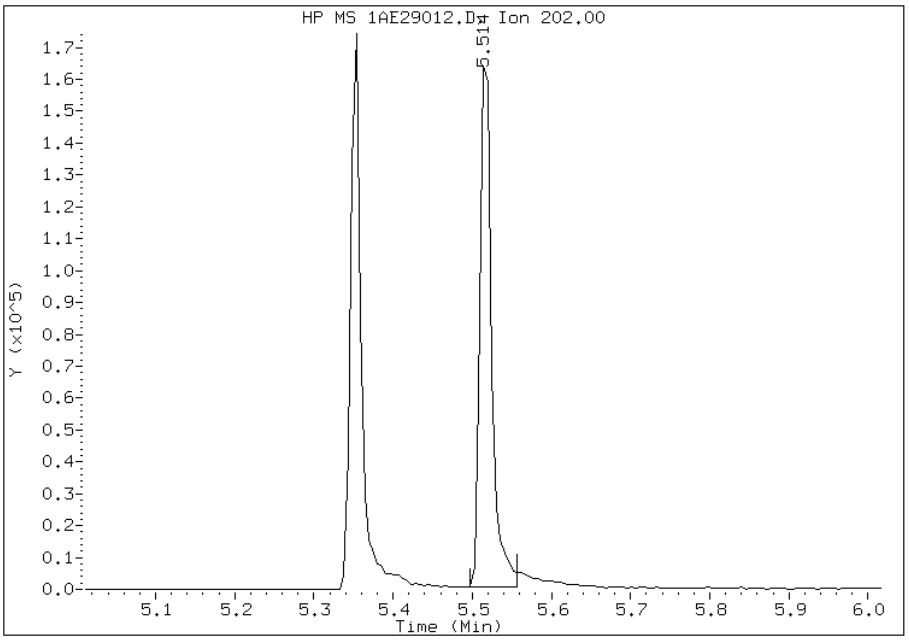
Processing Integration Results

RT: 5.51

Response: 167920

Amount: 6

Conc: 370



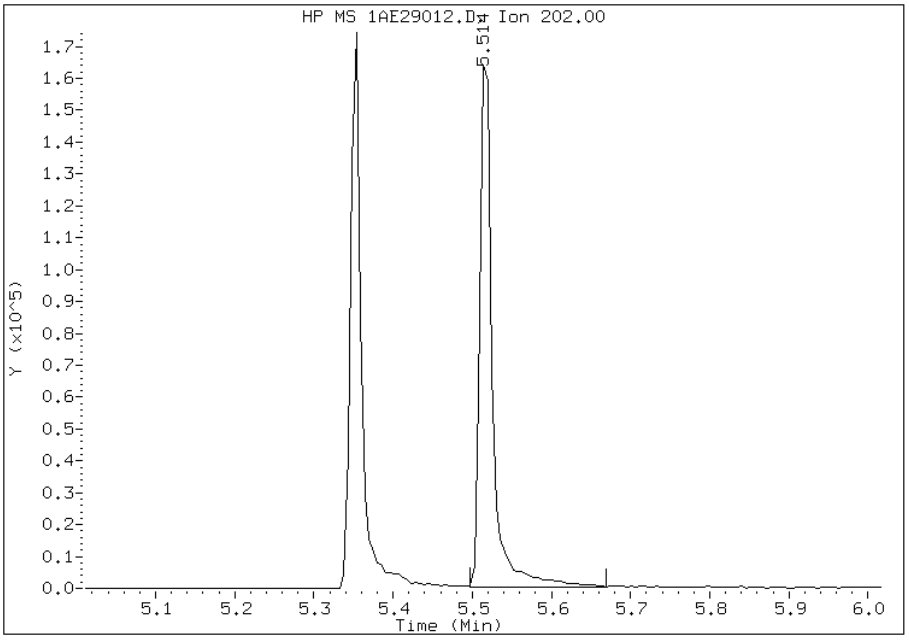
Manual Integration Results

RT: 5.51

Response: 179418

Amount: 6

Conc: 395



Manually Integrated By: cantins
Modification Date: 30-May-2013 10:01
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: | Lab Sample ID: 680-90686-A-7-B MS

Matrix: Solid | Lab File ID: 1AE29033.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/29/2013 06:31

Sample wt/vol: 15.12(g) | Date Analyzed: 05/29/2013 22:15

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

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

% Moisture: 39.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137876 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	671		660	130
208-96-8	Acenaphthylene	555		260	33
120-12-7	Anthracene	891		55	28
56-55-3	Benzo[a]anthracene	1960		53	26
50-32-8	Benzo[a]pyrene	1160		69	34
205-99-2	Benzo[b]fluoranthene	1700		80	40
191-24-2	Benzo[g,h,i]perylene	721		130	29
207-08-9	Benzo[k]fluoranthene	741		53	24
218-01-9	Chrysene	1900		59	30
53-70-3	Dibenz(a,h)anthracene	552		130	27
206-44-0	Fluoranthene	2110		130	26
86-73-7	Fluorene	632		130	27
193-39-5	Indeno[1,2,3-cd]pyrene	663		130	47
90-12-0	1-Methylnaphthalene	734		260	29
91-57-6	2-Methylnaphthalene	935		260	47
91-20-3	Naphthalene	814		260	29
85-01-8	Phenanthrene	2100		53	26
129-00-0	Pyrene	2090		130	24

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	35		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29033.D
Lab Smp Id: 680-90686-a-7-b ms
Inj Date : 29-MAY-2013 22:15
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-90686-a-7-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-bFASTPAHi-m.m
Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
Als bottle: 30 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.521	2.512	(1.000)	935988	40.0000	
* 7 Acenaphthene-d10	164	3.541	3.533	(1.000)	609946	40.0000	
* 11 Phenanthrene-d10	188	4.492	4.478	(1.000)	911214	40.0000	
$ 15 o-Terphenyl	230	4.781	4.772	(1.064)	11672	0.88563	234.2944
* 19 Chrysene-d12	240	6.517	6.492	(1.000)	705724	40.0000	
* 24 Perylene-d12	264	7.607	7.571	(1.000)	695547	40.0000	
2 Naphthalene	128	2.526	2.518	(1.002)	39267	1.85293	490.1937
3 2-Methylnaphthalene	141	2.932	2.924	(1.163)	21473	2.12812	562.9939
4 1-Methylnaphthalene	142	2.986	2.977	(1.184)	24625	1.67085	442.0235
5 1,1'-Biphenyl	154	3.210	3.207	(1.273)	1597	0.09701	25.6629(R)
6 Acenaphthylene	152	3.450	3.447	(0.974)	33748	1.26454	334.5342
8 Acenaphthene	154	3.557	3.554	(1.005)	21780	1.52690	403.9411
9 Dibenzofuran	168	3.664	3.655	(1.035)	29204	1.33729	353.7799
10 Fluorene	166	3.873	3.864	(1.094)	23835	1.43939	380.7902

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
12 Phenanthrene	178	4.503	4.494	(1.002)	98289	4.78940	1267.0379(R)
13 Anthracene	178	4.535	4.526	(1.010)	43555	2.02873	536.7012
16 Fluoranthene	202	5.368	5.354	(1.195)	122976	4.79940	1269.6825(R)
17 Pyrene	202	5.534	5.515	(0.849)	101219	4.75975	1259.1920(R)
18 Benzo(a)anthracene	228	6.512	6.481	(0.999)	88981	4.46055	1180.0390(R)
20 Chrysene	228	6.528	6.508	(1.002)	81407	4.32111	1143.1498(R)
21 Benzo(b)fluoranthene	252	7.324	7.299	(0.963)	77170	3.87578	1025.3384(RM)
22 Benzo(k)fluoranthene	252	7.334	7.320	(0.964)	39066	1.68815	446.6003(M)
23 Benzo(a)pyrene	252	7.548	7.523	(0.992)	44963	2.65003	701.0671
25 Indeno(1,2,3-cd)pyrene	276	8.349	8.314	(1.098)	23460	1.51026	399.5400(M)
26 Dibenzo(a,h)anthracene	278	8.365	8.341	(1.100)	18858	1.25669	332.4580(M)
27 Benzo(g,h,i)perylene	276	8.558	8.522	(1.125)	24493	1.64113	434.1605

QC Flag Legend

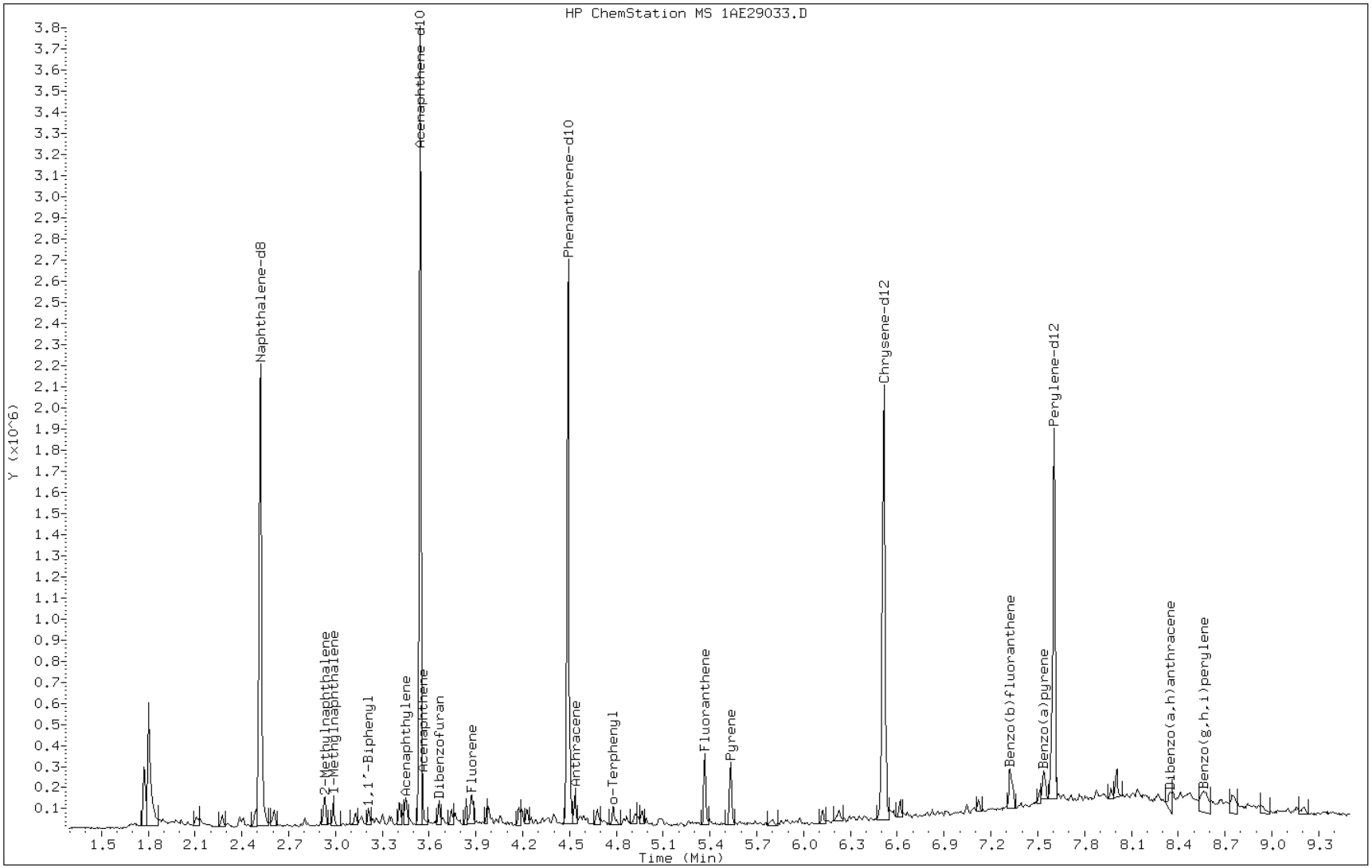
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AE29033.D

Date: 29-MAY-2013 22:15

Client ID: Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-b ms Operator: SCC



Manual Integration Report

Data File: 1AE29033.D
Inj. Date and Time: 29-MAY-2013 22:15
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/30/2013

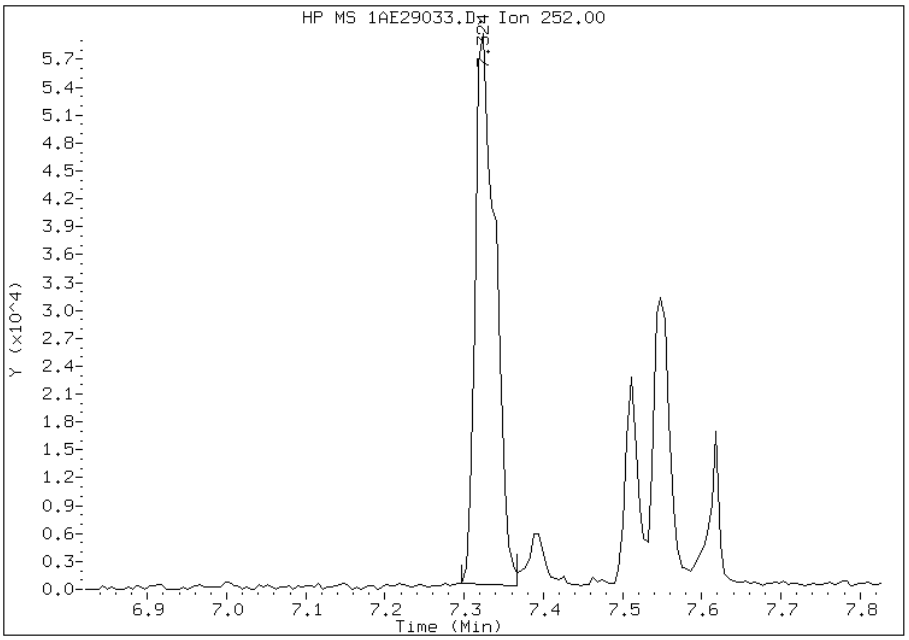
Processing Integration Results

RT: 7.32

Response: 103592

Amount: 5

Conc: 1359



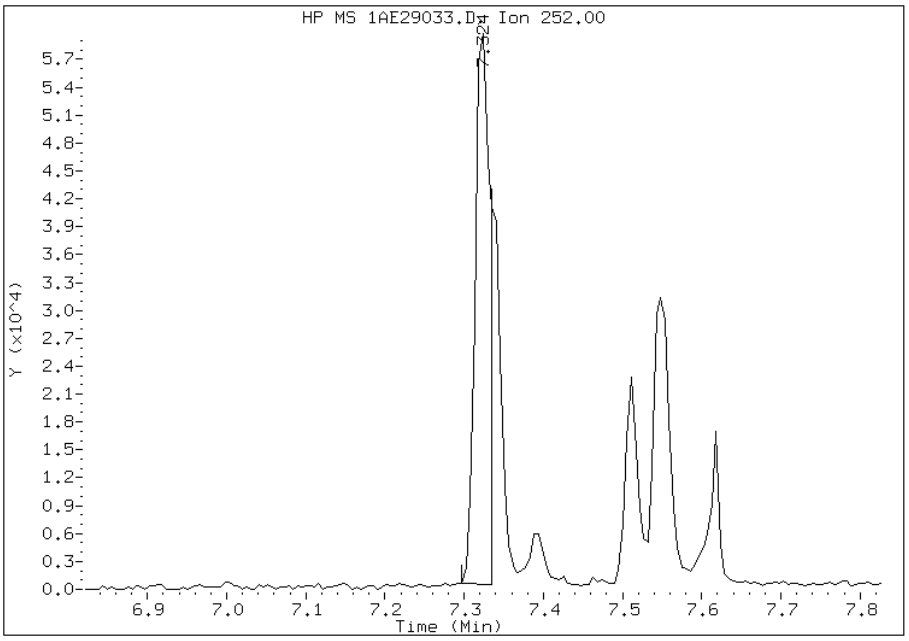
Manual Integration Results

RT: 7.32

Response: 77170

Amount: 4

Conc: 1025



Manually Integrated By: cantins
Modification Date: 30-May-2013 15:48
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29033.D
Inj. Date and Time: 29-MAY-2013 22:15
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/30/2013

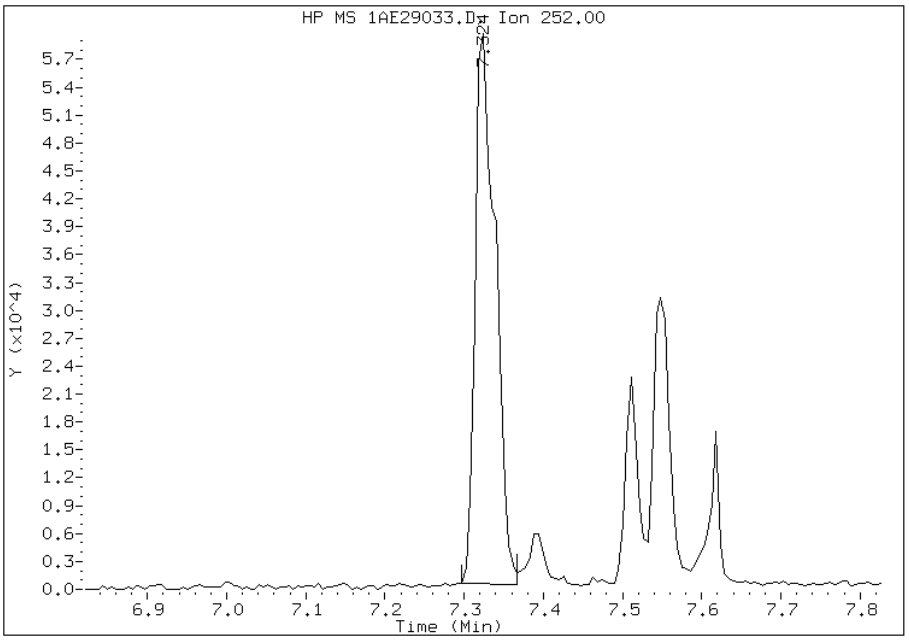
Processing Integration Results

RT: 7.32

Response: 103374

Amount: 4

Conc: 1182



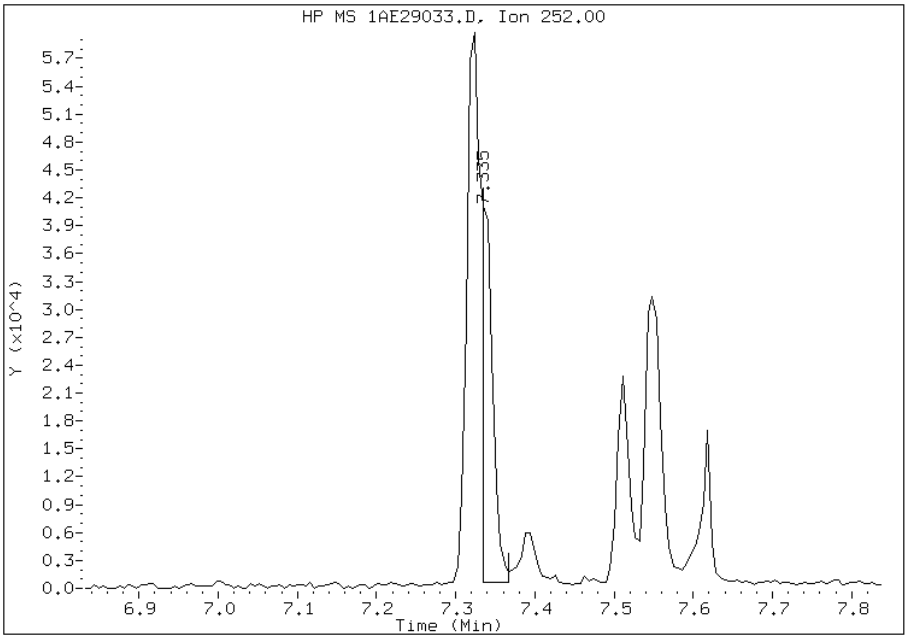
Manual Integration Results

RT: 7.33

Response: 39066

Amount: 2

Conc: 447



Manually Integrated By: cantins
Modification Date: 30-May-2013 15:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29033.D
Inj. Date and Time: 29-MAY-2013 22:15
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/30/2013

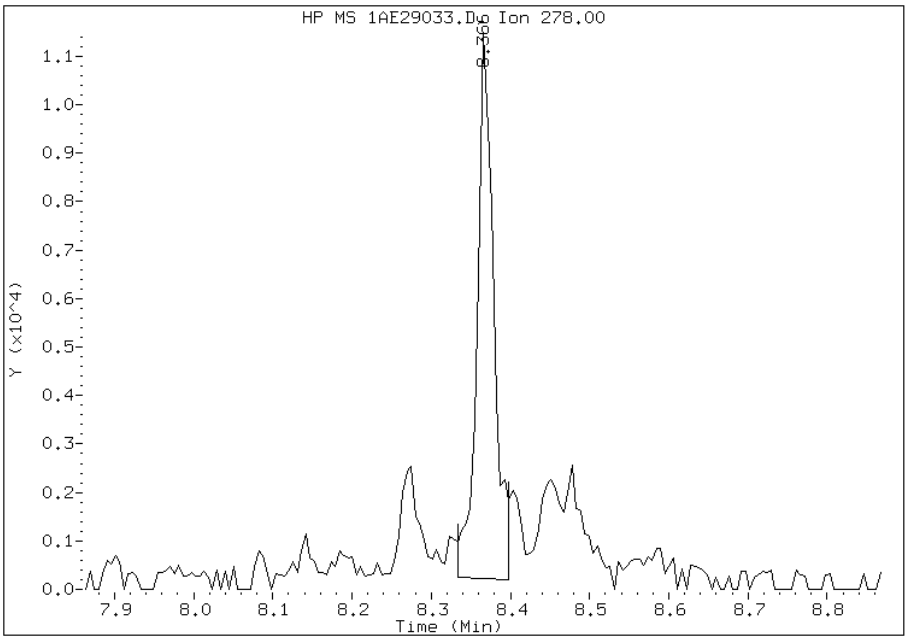
Processing Integration Results

RT: 8.37

Response: 16460

Amount: 1

Conc: 295



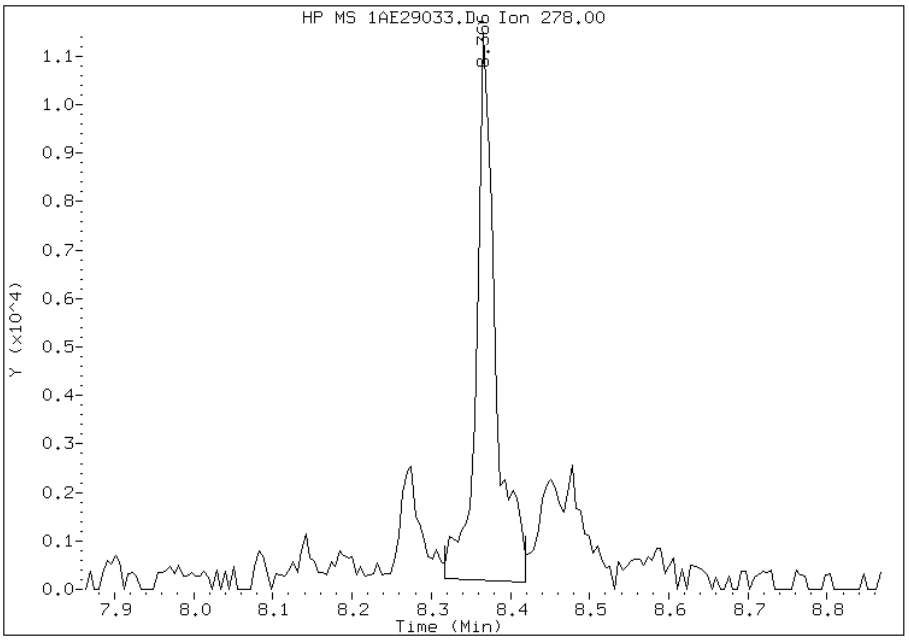
Manual Integration Results

RT: 8.37

Response: 18858

Amount: 1

Conc: 332



Manually Integrated By: cantins
Modification Date: 30-May-2013 15:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29033.D
Inj. Date and Time: 29-MAY-2013 22:15
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/30/2013

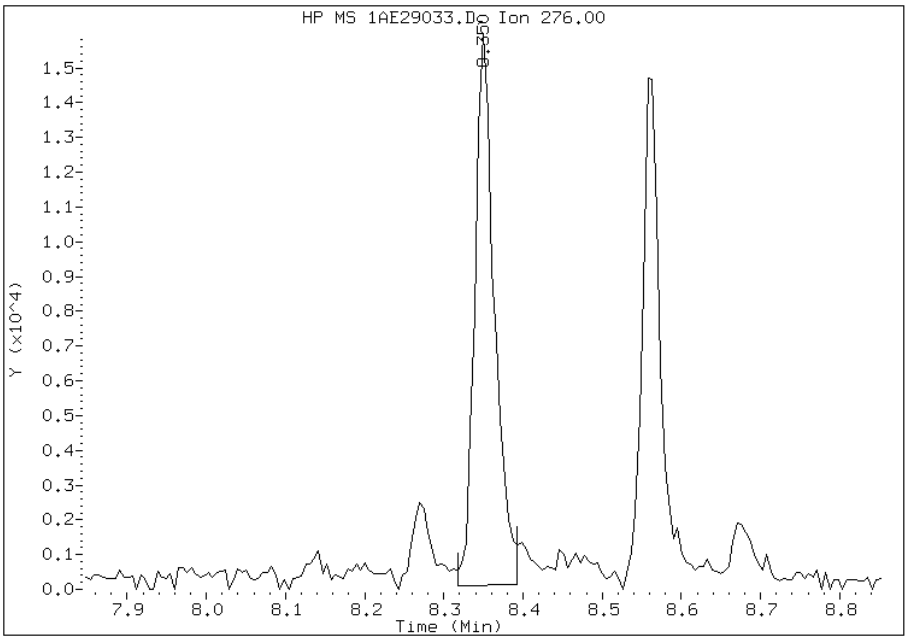
Processing Integration Results

RT: 8.35

Response: 27344

Amount: 2

Conc: 459



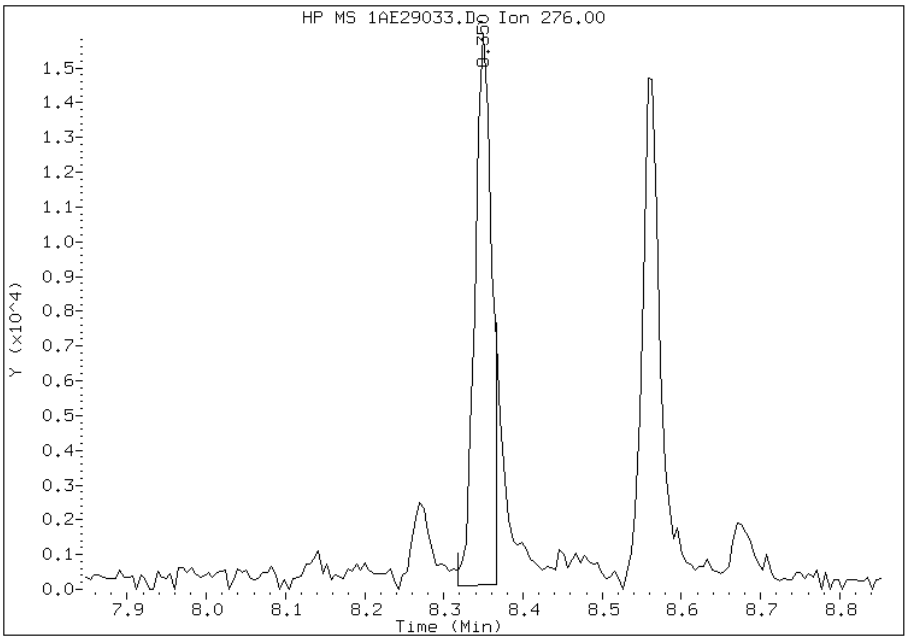
Manual Integration Results

RT: 8.35

Response: 23460

Amount: 2

Conc: 400



Manually Integrated By: cantins
Modification Date: 30-May-2013 15:49
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV0525B-CS-SP MS | Lab Sample ID: 680-90622-24 MS

Matrix: Solid | Lab File ID: 1DE29017.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 10:05

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 14.94(g) | Date Analyzed: 05/29/2013 20:25

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

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

% Moisture: 25.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137911 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	584		140	27
208-96-8	Acenaphthylene	638		54	6.8
120-12-7	Anthracene	638		11	5.7
56-55-3	Benzo[a]anthracene	715		11	5.3
50-32-8	Benzo[a]pyrene	624		14	7.0
205-99-2	Benzo[b]fluoranthene	865		17	8.3
191-24-2	Benzo[g,h,i]perylene	576		27	6.0
207-08-9	Benzo[k]fluoranthene	609		11	4.9
218-01-9	Chrysene	926		12	6.1
53-70-3	Dibenz(a,h)anthracene	558		27	5.6
206-44-0	Fluoranthene	804		27	5.4
86-73-7	Fluorene	640		27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	562		27	9.6
90-12-0	1-Methylnaphthalene	807		54	6.0
91-57-6	2-Methylnaphthalene	1130		54	9.6
91-20-3	Naphthalene	1130		54	6.0
85-01-8	Phenanthrene	926		11	5.3
129-00-0	Pyrene	800		27	5.0

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\1D052913.b\1DE29017.D
Lab Smp Id: 680-90622-a-24-b ms
Inj Date : 29-MAY-2013 20:25
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90622-a-24-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\dFASTPAHi.m
Meth Date : 29-May-2013 17:42 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 17 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.280	6.277	(1.000)	4209498	40.0000	
* 7 Acenaphthene-d10	164	7.949	7.945	(1.000)	2278527	40.0000	
* 11 Phenanthrene-d10	188	9.206	9.197	(1.000)	3583135	40.0000	
$ 15 o-Terphenyl	230	9.512	9.508	(1.033)	303200	5.77591	390
* 19 Chrysene-d12	240	11.568	11.559	(1.000)	3182616	40.0000	
* 24 Perylene-d12	264	13.484	13.456	(1.000)	3529737	40.0000	
2 Naphthalene	128	6.298	6.294	(1.003)	1299244	12.5158	840
3 2-Methylnaphthalene	142	6.997	6.993	(1.114)	826531	12.5049	840
4 1-Methylnaphthalene	142	7.091	7.087	(1.129)	608164	8.93758	600
5 1,1'-Biphenyl	154	7.432	7.428	(0.935)	80504	1.04576	70(R)
6 Acenaphthylene	152	7.820	7.816	(0.984)	667678	7.06754	470
8 Acenaphthene	154	7.972	7.969	(1.003)	387482	6.46561	430
9 Dibenzofuran	168	8.119	8.116	(1.021)	611824	7.40401	500
10 Fluorene	166	8.413	8.409	(1.058)	480819	7.09088	470

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.224	9.214	(1.002)	995648	10.2599	690
13 Anthracene	178	9.265	9.255	(1.006)	665981	7.07298	470
16 Fluoranthene	202	10.205	10.195	(1.108)	884638	8.91066	600
17 Pyrene	202	10.393	10.383	(0.898)	825466	8.85889	590
18 Benzo(a)anthracene	228	11.551	11.541	(0.998)	748059	7.91989	530
20 Chrysene	228	11.592	11.582	(1.002)	872752	10.2612	690
21 Benzo(b)fluoranthene	252	12.914	12.898	(0.958)	847365	9.58256	640
22 Benzo(k)fluoranthene	252	12.949	12.939	(0.960)	625080	6.75021	450
23 Benzo(a)pyrene	252	13.378	13.362	(0.992)	596199	6.90882	460
25 Indeno(1,2,3-cd)pyrene	276	15.129	15.101	(1.122)	557150	6.22066	420(M)
26 Dibenzo(a,h)anthracene	278	15.158	15.143	(1.124)	515856	6.18689	410
27 Benzo(g,h,i)perylene	276	15.605	15.577	(1.157)	511795	6.38565	430

QC Flag Legend

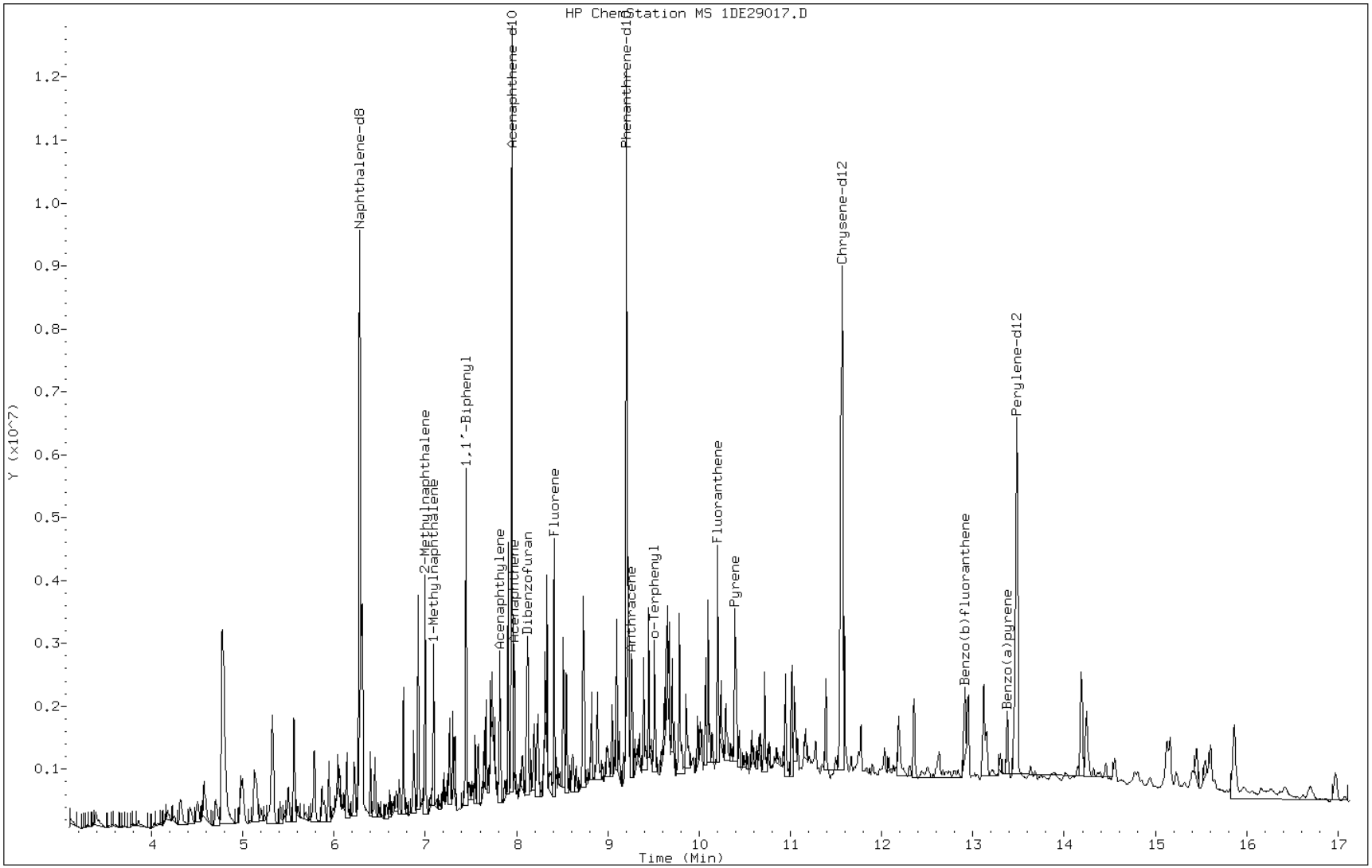
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DE29017.D

Date: 29-MAY-2013 20:25

Client ID: Instrument: BSMSD.i

Sample Info: 680-90622-a-24-b ms Operator: SCC



Manual Integration Report

Data File: 1DE29017.D
Inj. Date and Time: 29-MAY-2013 20:25
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/30/2013

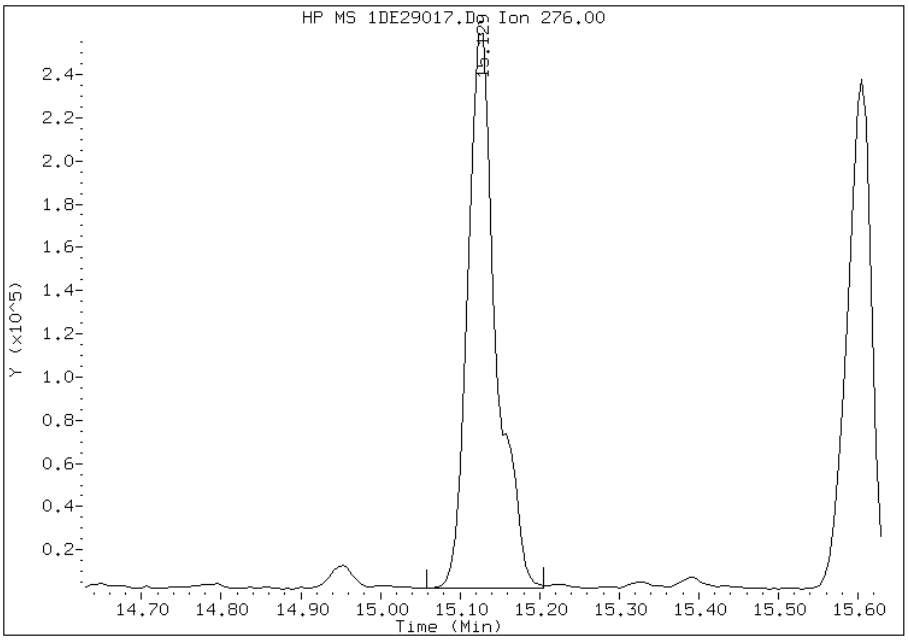
Processing Integration Results

RT: 15.13

Response: 638642

Amount: 7

Conc: 476



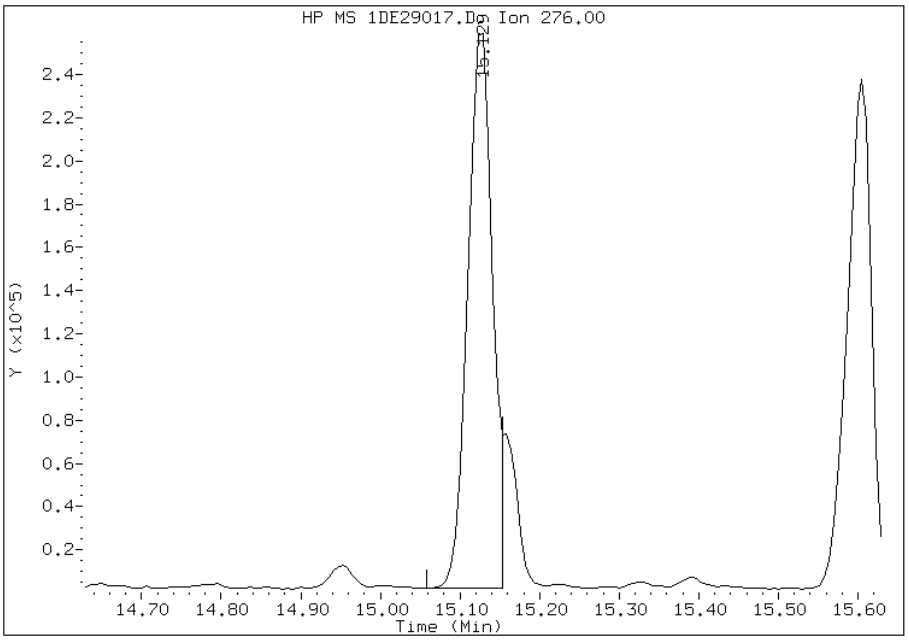
Manual Integration Results

RT: 15.13

Response: 557150

Amount: 6

Conc: 416



Manually Integrated By: cantins
Modification Date: 30-May-2013 13:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: | Lab Sample ID: 680-90686-A-7-C MSD

Matrix: Solid | Lab File ID: 1AE29034.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/29/2013 06:31

Sample wt/vol: 15.12(g) | Date Analyzed: 05/29/2013 22:30

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

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

% Moisture: 39.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137876 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	521	J	660	130
208-96-8	Acenaphthylene	447		260	33
120-12-7	Anthracene	772		55	28
56-55-3	Benzo[a]anthracene	1490		53	26
50-32-8	Benzo[a]pyrene	864		69	34
205-99-2	Benzo[b]fluoranthene	1140		80	40
191-24-2	Benzo[g,h,i]perylene	477		130	29
207-08-9	Benzo[k]fluoranthene	708		53	24
218-01-9	Chrysene	1190		59	30
53-70-3	Dibenz(a,h)anthracene	375		130	27
206-44-0	Fluoranthene	1760		130	26
86-73-7	Fluorene	530		130	27
193-39-5	Indeno[1,2,3-cd]pyrene	504		130	47
90-12-0	1-Methylnaphthalene	688		260	29
91-57-6	2-Methylnaphthalene	873		260	47
91-20-3	Naphthalene	767		260	29
85-01-8	Phenanthrene	1760		53	26
129-00-0	Pyrene	1520		130	24

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	31		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29034.D
Lab Smp Id: 680-90686-a-7-c msd
Inj Date : 29-MAY-2013 22:30
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-90686-a-7-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-bFASTPAHi-m.m
Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
Als bottle: 31 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.516	2.512	(1.000)	925757	40.0000	
* 7 Acenaphthene-d10	164	3.542	3.533	(1.000)	586300	40.0000	
* 11 Phenanthrene-d10	188	4.493	4.478	(1.000)	905288	40.0000	
$ 15 o-Terphenyl	230	4.781	4.772	(1.064)	10109	0.77206	204.2483
* 19 Chrysene-d12	240	6.512	6.492	(1.000)	762174	40.0000	
* 24 Perylene-d12	264	7.607	7.571	(1.000)	814583	40.0000	
2 Naphthalene	128	2.527	2.518	(1.004)	36606	1.74645	462.0250
3 2-Methylnaphthalene	141	2.933	2.924	(1.166)	19840	1.98801	525.9276
4 1-Methylnaphthalene	142	2.986	2.977	(1.187)	22831	1.56624	414.3500
5 1,1'-Biphenyl	154	3.210	3.207	(1.276)	1426	0.08758	23.1683(R)
6 Acenaphthylene	152	3.451	3.447	(0.974)	26118	1.01811	269.3419
8 Acenaphthene	154	3.558	3.554	(1.005)	16264	1.18618	313.8044
9 Dibenzofuran	168	3.664	3.655	(1.035)	25317	1.20605	319.0616
10 Fluorene	166	3.867	3.864	(1.092)	19198	1.20612	319.0789

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
12 Phenanthrene	178	4.503	4.494	(1.002)	81501	3.99736	1057.5021(R)
13 Anthracene	178	4.535	4.526	(1.010)	37502	1.75822	465.1388
16 Fluoranthene	202	5.363	5.354	(1.194)	102120	4.01154	1061.2537(R)
17 Pyrene	202	5.529	5.515	(0.849)	79534	3.46302	916.1435(R)
18 Benzo(a)anthracene	228	6.506	6.481	(0.999)	73340	3.39317	897.6650(R)
20 Chrysene	228	6.528	6.508	(1.002)	55070	2.70663	716.0399
21 Benzo(b)fluoranthene	252	7.324	7.299	(0.963)	58750	2.58693	684.3730(M)
22 Benzo(k)fluoranthene	252	7.329	7.320	(0.963)	43664	1.61112	426.2209(M)
23 Benzo(a)pyrene	252	7.548	7.523	(0.992)	39102	1.96782	520.5883
25 Indeno(1,2,3-cd)pyrene	276	8.350	8.314	(1.098)	20204	1.14820	303.7559(M)
26 Dibenzo(a,h)anthracene	278	8.366	8.341	(1.100)	14154	0.85362	225.8259
27 Benzo(g,h,i)perylene	276	8.558	8.522	(1.125)	18999	1.08698	287.5612

QC Flag Legend

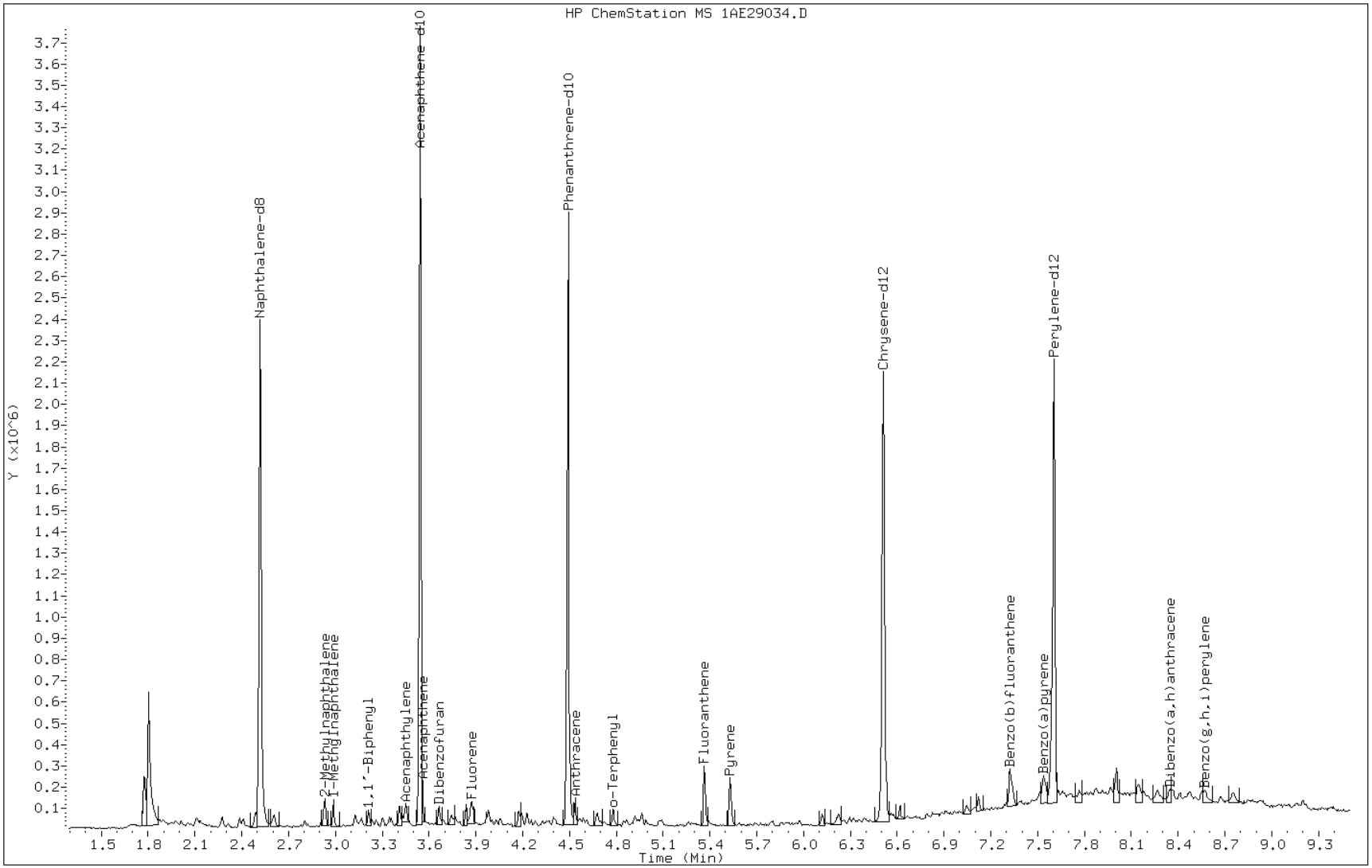
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AE29034.D

Date: 29-MAY-2013 22:30

Client ID: Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-c msd Operator: SCC



Manual Integration Report

Data File: 1AE29034.D
Inj. Date and Time: 29-MAY-2013 22:30
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/30/2013

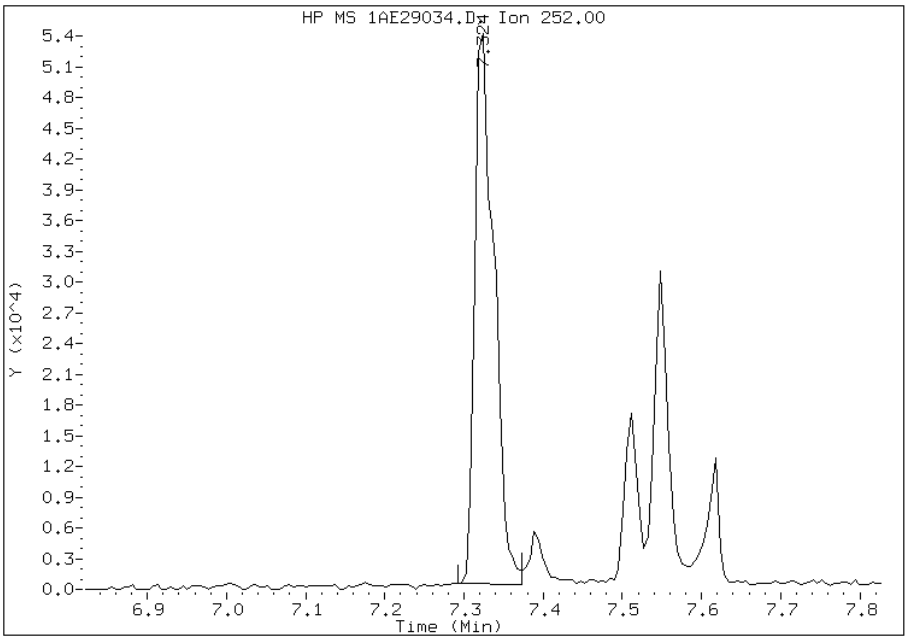
Processing Integration Results

RT: 7.32

Response: 90174

Amount: 4

Conc: 1023



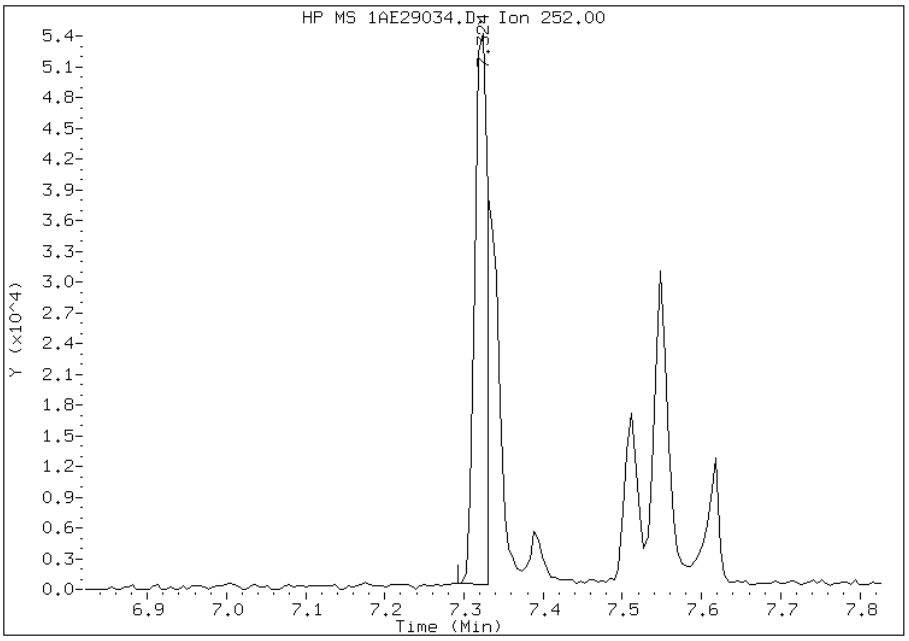
Manual Integration Results

RT: 7.32

Response: 58750

Amount: 3

Conc: 684



Manually Integrated By: cantins
Modification Date: 30-May-2013 15:50
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29034.D
Inj. Date and Time: 29-MAY-2013 22:30
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/30/2013

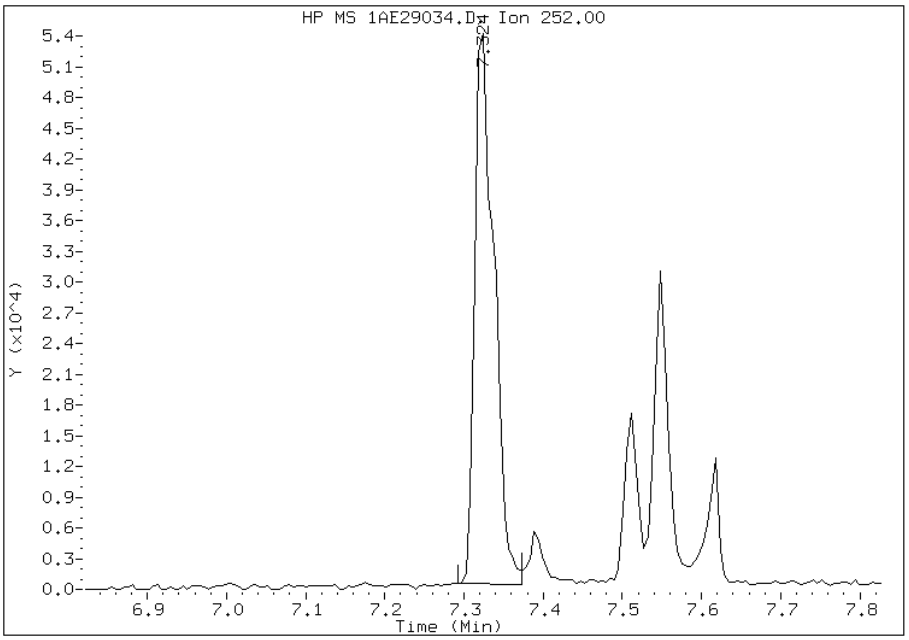
Processing Integration Results

RT: 7.32

Response: 90174

Amount: 3

Conc: 880



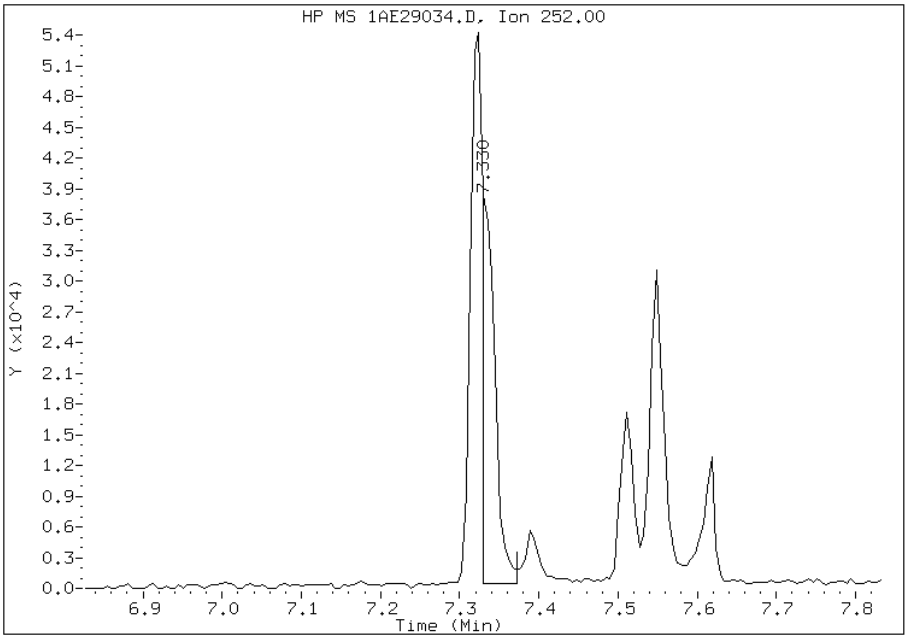
Manual Integration Results

RT: 7.33

Response: 43664

Amount: 2

Conc: 426



Manually Integrated By: cantins
Modification Date: 30-May-2013 15:50
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29034.D
Inj. Date and Time: 29-MAY-2013 22:30
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/30/2013

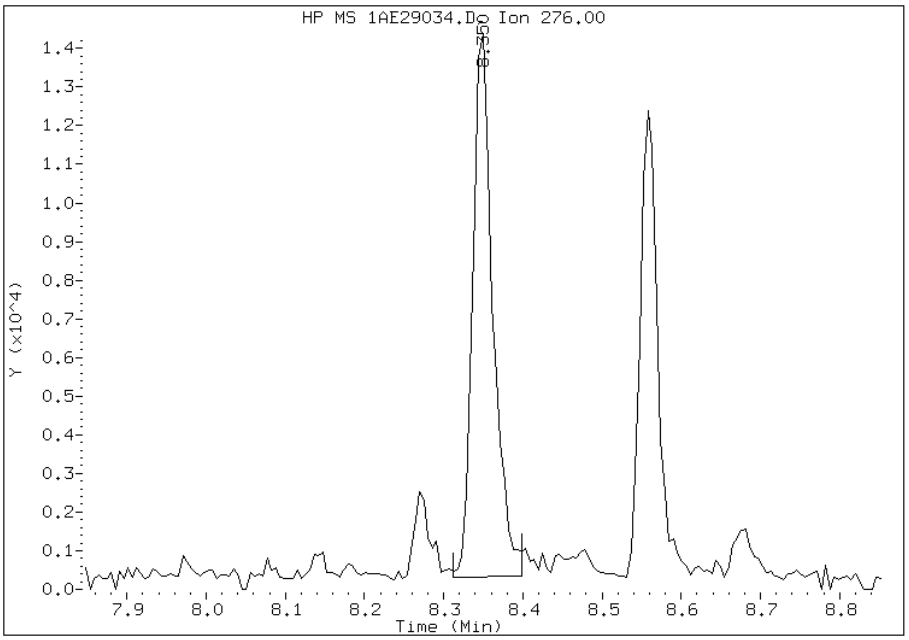
Processing Integration Results

RT: 8.35

Response: 24801

Amount: 1

Conc: 364



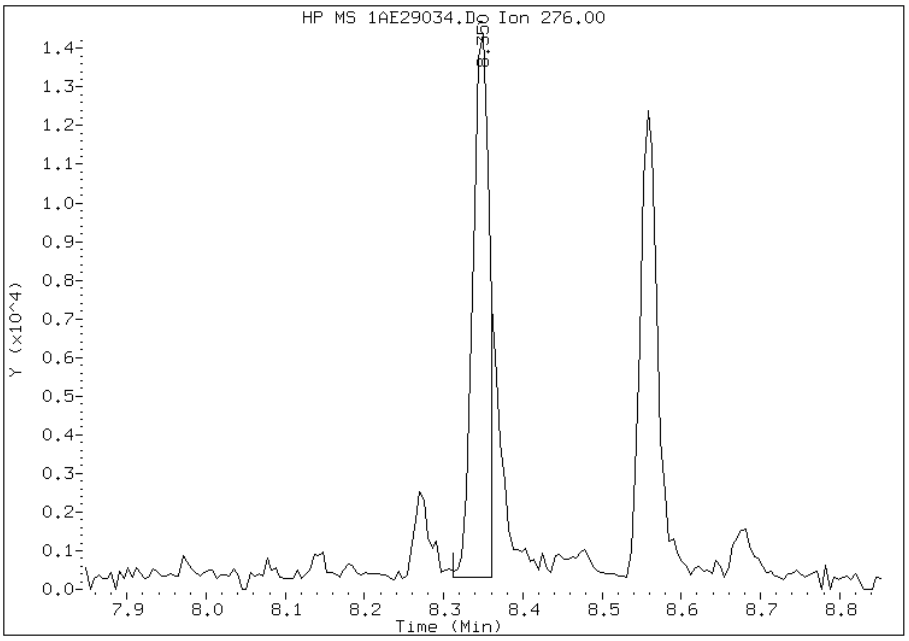
Manual Integration Results

RT: 8.35

Response: 20204

Amount: 1

Conc: 304



Manually Integrated By: cantins
Modification Date: 30-May-2013 15:50
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90622-2

SDG No.: 68090622-2

Client Sample ID: CV0525B-CS-SP MSD | Lab Sample ID: 680-90622-24 MSD

Matrix: Solid | Lab File ID: 1DE29018.D

Analysis Method: 8270C LL | Date Collected: 05/21/2013 10:05

Extract. Method: 3546 | Date Extracted: 05/24/2013 12:33

Sample wt/vol: 14.94(g) | Date Analyzed: 05/29/2013 20:48

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

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

% Moisture: 25.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137911 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	686		140	27
208-96-8	Acenaphthylene	728		54	6.8
120-12-7	Anthracene	761		11	5.7
56-55-3	Benzo[a]anthracene	931		11	5.3
50-32-8	Benzo[a]pyrene	813		14	7.0
205-99-2	Benzo[b]fluoranthene	1100		17	8.3
191-24-2	Benzo[g,h,i]perylene	679		27	6.0
207-08-9	Benzo[k]fluoranthene	805		11	4.9
218-01-9	Chrysene	1200		12	6.1
53-70-3	Dibenz(a,h)anthracene	663		27	5.6
206-44-0	Fluoranthene	998		27	5.4
86-73-7	Fluorene	737		27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	689		27	9.6
90-12-0	1-Methylnaphthalene	928		54	6.0
91-57-6	2-Methylnaphthalene	1290		54	9.6
91-20-3	Naphthalene	1300		54	6.0
85-01-8	Phenanthrene	1130		11	5.3
129-00-0	Pyrene	991		27	5.0

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\1DE29018.D
Lab Smp Id: 680-90622-a-24-c ms
Inj Date : 29-MAY-2013 20:48
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90622-a-24-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052913.b\dFASTPAHi.m
Meth Date : 29-May-2013 17:42 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 18 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.282	6.277	(1.000)	3931585	40.0000	
* 7 Acenaphthene-d10	164	7.951	7.945	(1.000)	2118029	40.0000	
* 11 Phenanthrene-d10	188	9.203	9.197	(1.000)	3266666	40.0000	
$ 15 o-Terphenyl	230	9.514	9.508	(1.034)	328477	6.86364	460
* 19 Chrysene-d12	240	11.570	11.559	(1.000)	2907170	40.0000	
* 24 Perylene-d12	264	13.486	13.456	(1.000)	3216693	40.0000	
2 Naphthalene	128	6.300	6.294	(1.003)	1395133	14.3895	960(R)
3 2-Methylnaphthalene	142	6.999	6.993	(1.114)	880510	14.2633	950(R)
4 1-Methylnaphthalene	142	7.087	7.087	(1.128)	653452	10.2819	690
5 1,1'-Biphenyl	154	7.434	7.428	(0.935)	88734	1.24002	83(R)
6 Acenaphthylene	152	7.822	7.816	(0.984)	708211	8.06466	540
8 Acenaphthene	154	7.975	7.969	(1.003)	423657	7.60492	510
9 Dibenzofuran	168	8.122	8.116	(1.021)	658369	8.57101	570
10 Fluorene	166	8.415	8.409	(1.058)	514583	8.16388	550

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.226	9.214	(1.003)	1111587	12.5643	840
13 Anthracene	178	9.261	9.255	(1.006)	724100	8.43524	560
16 Fluoranthene	202	10.201	10.195	(1.109)	1000257	11.0513	740
17 Pyrene	202	10.395	10.383	(0.898)	934390	10.9780	730
18 Benzo(a)anthracene	228	11.553	11.541	(0.998)	890269	10.3185	690
20 Chrysene	228	11.594	11.582	(1.002)	1035657	13.3303	890(R)
21 Benzo(b)fluoranthene	252	12.916	12.898	(0.958)	982952	12.1977	820
22 Benzo(k)fluoranthene	252	12.951	12.939	(0.960)	752126	8.91262	600
23 Benzo(a)pyrene	252	13.380	13.362	(0.992)	710568	9.00517	600
25 Indeno(1,2,3-cd)pyrene	276	15.137	15.101	(1.122)	625691	7.63141	510(M)
26 Dibenzo(a,h)anthracene	278	15.172	15.143	(1.125)	559433	7.34881	490
27 Benzo(g,h,i)perylene	276	15.613	15.577	(1.158)	549368	7.52152	500

QC Flag Legend

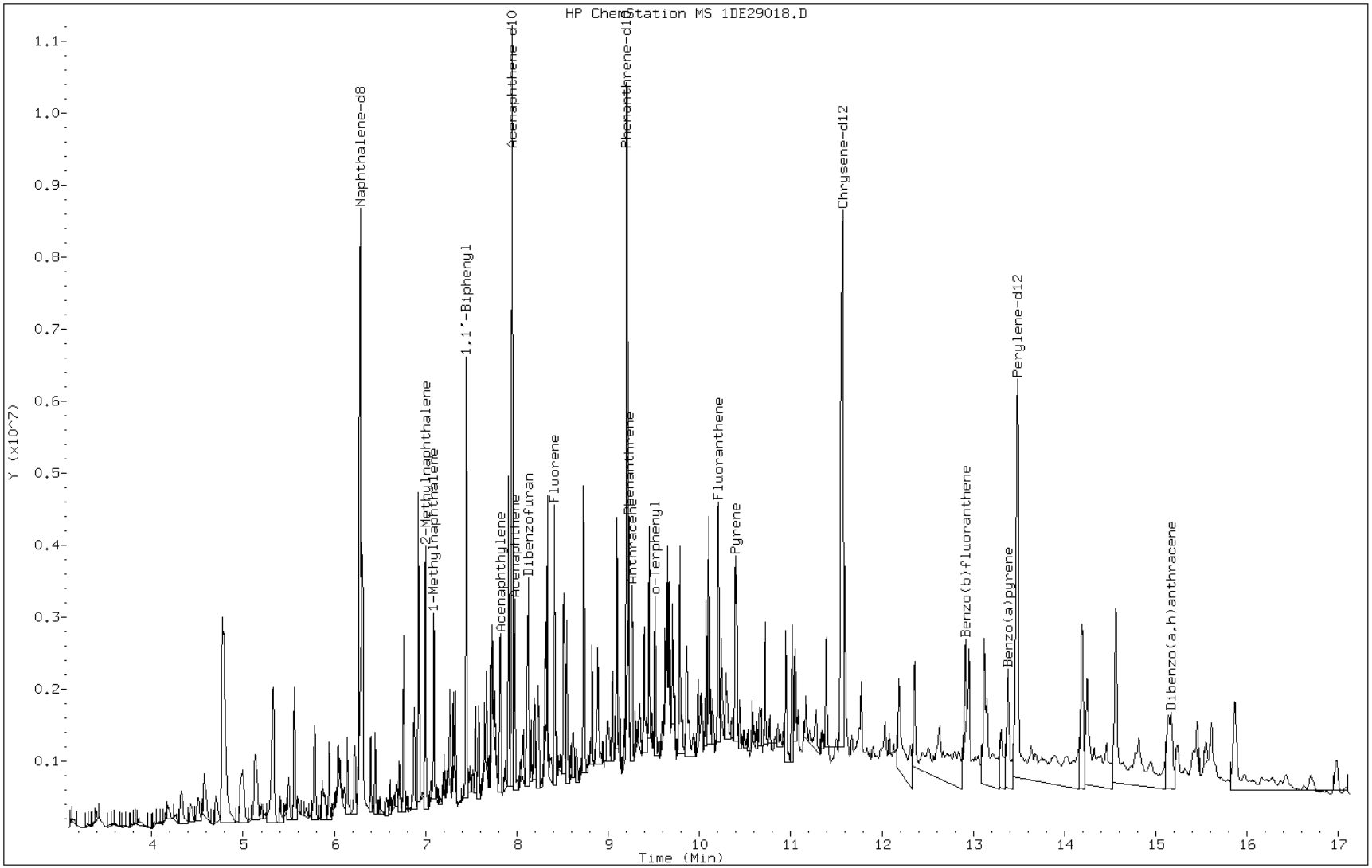
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DE29018.D

Date: 29-MAY-2013 20:48

Client ID: Instrument: BSMSD.i

Sample Info: 680-90622-a-24-c msd Operator: SCC



Manual Integration Report

Data File: 1DE29018.D
Inj. Date and Time: 29-MAY-2013 20:48
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/30/2013

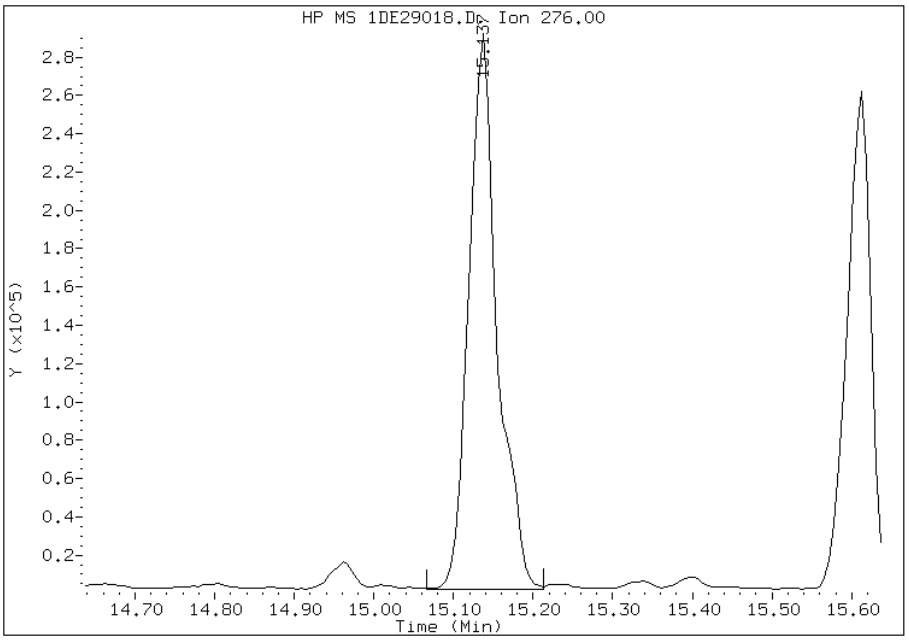
Processing Integration Results

RT: 15.14

Response: 715473

Amount: 9

Conc: 583



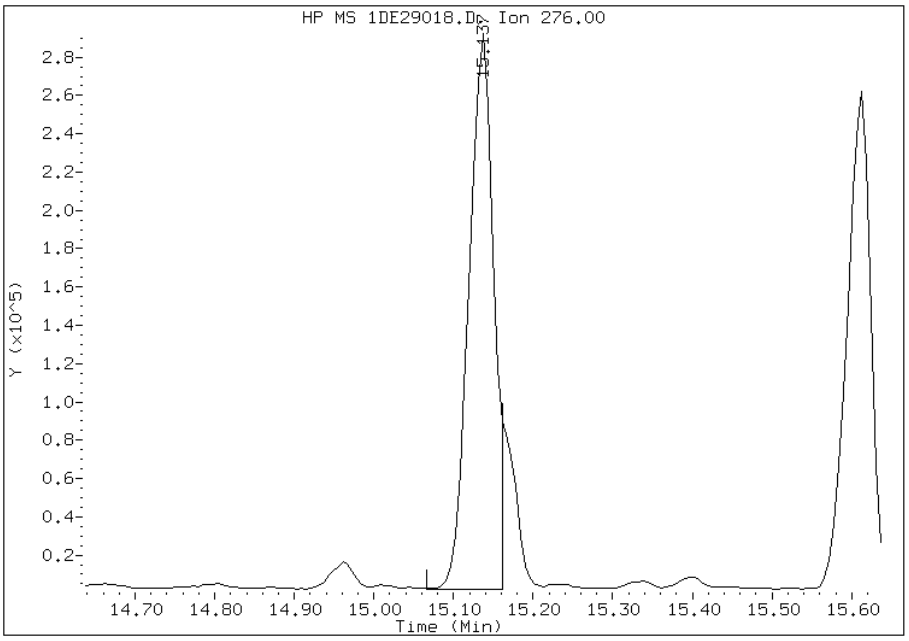
Manual Integration Results

RT: 15.14

Response: 625691

Amount: 8

Conc: 511



Manually Integrated By: cantins
Modification Date: 30-May-2013 13:58
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: BSMA5973 Start Date: 05/23/2013 11:11

Analysis Batch Number: 137743 End Date: 05/23/2013 17:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/23/2013 11:11	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 11:26	1		DB-5MS 250(um)
DFTPP 660-137743/2		05/23/2013 11:41	1	1AE23002.D	DB-5MS 250(um)
IC 660-137743/3		05/23/2013 12:51	1	1AE23003.D	DB-5MS 250(um)
IC 660-137743/4		05/23/2013 13:06	1	1AE23004.D	DB-5MS 250(um)
IC 660-137743/5		05/23/2013 13:21	1	1AE23005.D	DB-5MS 250(um)
IC 660-137743/6		05/23/2013 13:36	1	1AE23006.D	DB-5MS 250(um)
ICIS 660-137743/7		05/23/2013 13:52	1	1AE23007.D	DB-5MS 250(um)
IC 660-137743/8		05/23/2013 14:07	1	1AE23008.D	DB-5MS 250(um)
IC 660-137743/9		05/23/2013 14:22	1	1AE23009.D	DB-5MS 250(um)
ICV 660-137743/10		05/23/2013 14:37	1	1AE23010.D	DB-5MS 250(um)
ZZZZZ		05/23/2013 15:40	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 15:57	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 16:13	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 16:29	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 16:44	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 16:58	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 17:13	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 17:28	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 17:44	4		DB-5MS 250(um)
ZZZZZ		05/23/2013 17:59	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: BSMA5973 Start Date: 05/29/2013 11:45

Analysis Batch Number: 137876 End Date: 05/29/2013 22:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/29/2013 11:45	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 11:59	1		DB-5MS 250(um)
DFTPP 660-137876/2		05/29/2013 12:14	1		DB-5MS 250(um)
CCVIS 660-137876/3		05/29/2013 12:33	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 14:16	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 14:50	1		DB-5MS 250(um)
DFTPP 660-137876/6		05/29/2013 15:05	1	1AE29005.D	DB-5MS 250(um)
CCVIS 660-137876/7		05/29/2013 15:18	1	1AE29006.D	DB-5MS 250(um)
ZZZZZ		05/29/2013 15:34	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 15:49	1		DB-5MS 250(um)
MB 660-137845/1-A		05/29/2013 16:04	1	1AE29009.D	DB-5MS 250(um)
ZZZZZ		05/29/2013 16:20	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 16:35	1		DB-5MS 250(um)
LCS 660-137845/2-A		05/29/2013 16:58	1	1AE29012.D	DB-5MS 250(um)
ZZZZZ		05/29/2013 17:13	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 17:29	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 17:44	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 17:59	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 18:14	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 18:29	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 18:44	4		DB-5MS 250(um)
ZZZZZ		05/29/2013 18:59	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 19:14	1		DB-5MS 250(um)
680-90622-36	CV0912C-CS-SP	05/29/2013 19:30	4	1AE29022.D	DB-5MS 250(um)
680-90622-37	CV0912D-CS-SP	05/29/2013 19:45	4	1AE29023.D	DB-5MS 250(um)
680-90622-38	CV1189A-CS-SP	05/29/2013 19:59	4	1AE29024.D	DB-5MS 250(um)
680-90622-39	CV1189B-CS-SP	05/29/2013 20:14	4	1AE29025.D	DB-5MS 250(um)
ZZZZZ		05/29/2013 20:30	4		DB-5MS 250(um)
ZZZZZ		05/29/2013 20:44	4		DB-5MS 250(um)
ZZZZZ		05/29/2013 21:00	4		DB-5MS 250(um)
ZZZZZ		05/29/2013 21:15	4		DB-5MS 250(um)
ZZZZZ		05/29/2013 21:30	4		DB-5MS 250(um)
ZZZZZ		05/29/2013 21:45	4		DB-5MS 250(um)
ZZZZZ		05/29/2013 22:00	4		DB-5MS 250(um)
680-90686-A-7-B MS		05/29/2013 22:15	4	1AE29033.D	DB-5MS 250(um)
680-90686-A-7-C MSD		05/29/2013 22:30	4	1AE29034.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: BSMD5973 Start Date: 05/23/2013 10:28

Analysis Batch Number: 137830 End 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)
DFTPP 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 Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: BSMD5973 Start Date: 05/29/2013 12:56

Analysis Batch Number: 137911 End Date: 05/30/2013 00:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/29/2013 12:56	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 13:19	1		DB-5MS 250(um)
DFTPP 660-137911/2		05/29/2013 13:43	1	1DE29002.D	DB-5MS 250(um)
CCVIS 660-137911/3		05/29/2013 14:10	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 14:50	1		DB-5MS 250(um)
CCVIS 660-137911/5		05/29/2013 15:12	1	1DE29005.D	DB-5MS 250(um)
MB 660-137790/1-A		05/29/2013 15:37	1	1DE29006.D	DB-5MS 250(um)
LCS 660-137790/2-A		05/29/2013 16:39	1	1DE29007.D	DB-5MS 250(um)
ZZZZZ		05/29/2013 17:02	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 17:24	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 17:47	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 18:09	1		DB-5MS 250(um)
ZZZZZ		05/29/2013 18:32	4		DB-5MS 250(um)
ZZZZZ		05/29/2013 18:55	4		DB-5MS 250(um)
680-90622-22	CV1358B-CS	05/29/2013 19:17	4	1DE29014.D	DB-5MS 250(um)
680-90622-23	CV0525A-CS-SP	05/29/2013 19:40	4	1DE29015.D	DB-5MS 250(um)
680-90622-24	CV0525B-CS-SP	05/29/2013 20:02	1	1DE29016.D	DB-5MS 250(um)
680-90622-24 MS	CV0525B-CS-SP MS	05/29/2013 20:25	1	1DE29017.D	DB-5MS 250(um)
680-90622-24 MSD	CV0525B-CS-SP MSD	05/29/2013 20:48	1	1DE29018.D	DB-5MS 250(um)
ZZZZZ		05/29/2013 21:10	4		DB-5MS 250(um)
680-90622-26	CV0729B-CS-SP	05/29/2013 21:33	4	1DE29020.D	DB-5MS 250(um)
ZZZZZ		05/29/2013 21:55	4		DB-5MS 250(um)
680-90622-28	FM0217A-CS	05/29/2013 22:18	4	1DE29022.D	DB-5MS 250(um)
680-90622-29	CV0828A-CS-SP	05/29/2013 22:40	4	1DE29023.D	DB-5MS 250(um)
680-90622-30	CV0828B-CS-SP	05/29/2013 23:03	1	1DE29024.D	DB-5MS 250(um)
680-90622-31	CV0828C-CS-SP	05/29/2013 23:25	1	1DE29025.D	DB-5MS 250(um)
680-90622-32	CV0838A-CS-SP	05/29/2013 23:48	1	1DE29026.D	DB-5MS 250(um)
680-90622-33	CV0838B-CS-SP	05/30/2013 00:10	1	1DE29027.D	DB-5MS 250(um)
680-90622-34	CV0912A-CS-SP	05/30/2013 00:33	4	1DE29028.D	DB-5MS 250(um)
680-90622-35	CV0912B-CS-SP	05/30/2013 00:55	4	1DE29029.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: BSMD5973 Start Date: 06/03/2013 09:54

Analysis Batch Number: 138011 End Date: 06/03/2013 21:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/03/2013 09:54	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 10:16	1		DB-5MS 250(um)
DFTPP 660-138011/2		06/03/2013 10:41	1	1DF03002.D	DB-5MS 250(um)
CCVIS 660-138011/3		06/03/2013 10:59	1	1DF03003.D	DB-5MS 250(um)
ZZZZZ		06/03/2013 11:29	1		DB-5MS 250(um)
680-90622-25	CV0729A-CS-SP	06/03/2013 11:59	10	1DF03005.D	DB-5MS 250(um)
680-90622-27	CV1016A-CS-SP	06/03/2013 12:21	10	1DF03006.D	DB-5MS 250(um)
ZZZZZ		06/03/2013 14:40	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 15:03	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 15:25	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 15:48	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 16:10	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 16:33	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 16:56	1		DB-5MS 250(um)
680-90622-34 DL	CV0912A-CS-SP DL	06/03/2013 17:18	20	1DF03014.D	DB-5MS 250(um)
ZZZZZ		06/03/2013 17:41	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 18:03	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 18:26	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 18:48	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 19:11	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 19:33	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 19:56	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 20:18	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 20:41	4		DB-5MS 250(um)
ZZZZZ		06/03/2013 21:04	4		DB-5MS 250(um)
ZZZZZ		06/03/2013 21:26	4		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Batch Number: 137790 Batch Start Date: 05/24/13 12:33 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 05/28/13 14:07

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00180		
MB 660-137790/1		3546, 8270C LL		15.10 g	1 mL		1 mL		
LCS 660-137790/2		3546, 8270C LL		14.96 g	1 mL	1 mL	1 mL		
680-90622-A-22	CV1358B-CS	3546, 8270C LL	T	14.91 g	1 mL		1 mL		
680-90622-A-23	CV0525A-CS-SP	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-90622-A-24	CV0525B-CS-SP	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-90622-A-24 MS	CV0525B-CS-SP	3546, 8270C LL	T	14.94 g	1 mL	1 mL	1 mL		
680-90622-A-24 MSD	CV0525B-CS-SP	3546, 8270C LL	T	14.94 g	1 mL	1 mL	1 mL		
680-90622-A-25	CV0729A-CS-SP	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-90622-A-26	CV0729B-CS-SP	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-90622-A-27	CV1016A-CS-SP	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-90622-A-28	FM0217A-CS	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-90622-A-29	CV0828A-CS-SP	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-90622-B-30	CV0828B-CS-SP	3546, 8270C LL	T	15.38 g	1 mL		1 mL		
680-90622-A-31	CV0828C-CS-SP	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-90622-A-32	CV0838A-CS-SP	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-90622-A-33	CV0838B-CS-SP	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-90622-A-34	CV0912A-CS-SP	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-90622-A-35	CV0912B-CS-SP	3546, 8270C LL	T	15.20 g	1 mL		1 mL		

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Batch Number: 137790 Batch Start Date: 05/24/13 12:33 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 05/28/13 14:07

Batch Notes	
Acetone Lot #	ID:EX-ACETON BOT_00053(1551087)
Balance ID	B001
Batch Comment	none
Person's name who did the concentration	RYAN NOLAN
Exchange Solvent Lot #	ID:DCM/ACETON_00082(1557534)
Exchange Solvent Name	ID:DCM/ACETON_00082(1557534)
Final Concentrator Volume	1ml mL
MeCL2 Lot #	ID:EX-MC CYCL_00056(1535492)
MeCl2/Acetone Lot #	ID:DCM/ACETON_00082(1557534)
Microwave Start Time	17:10 5/24/13
Microwave Stop Time	17:45 5/24/13
MS Lot Number	680-90622-24
Na2SO4 Lot Number	ID:EX-Na2SO4a_00066(27963001)
Ottawa Sand Lot #	ID: OTTAWA SAND_00019(1557530)
Person's name who did the prep	RYAN NOLAN
SOP Number	TP-EX014
Person who witnessed spiking	SAUREL CEROME
Surrogate Lot Number	ID:EXLLSURINT_00180(1546025)
Water Bath ID	Turbo Vap #3-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Batch Number: 137845 Batch Start Date: 05/29/13 06:31 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 05/29/13 14:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00182		
MB 660-137845/1		3546, 8270C LL		15.29 g	1 mL		1 mL		
LCS 660-137845/2		3546, 8270C LL		15.38 g	1 mL	1 mL	1 mL		
680-90622-A-36	CV0912C-CS-SP	3546, 8270C LL	T	15.25 g	1 mL		1 mL		
680-90622-A-37	CV0912D-CS-SP	3546, 8270C LL	T	15.24 g	1 mL		1 mL		
680-90622-A-38	CV1189A-CS-SP	3546, 8270C LL	T	15.26 g	1 mL		1 mL		
680-90622-A-39	CV1189B-CS-SP	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-90686-A-7 MS		3546, 8270C LL	T	15.12 g	1 mL	1 mL	1 mL		
680-90686-A-7 MSD		3546, 8270C LL	T	15.12 g	1 mL	1 mL	1 mL		

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Batch Number: 137845 Batch Start Date: 05/29/13 06:31 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 05/29/13 14:35

Batch Notes	
Acetone Lot #	EX ACETON BOT _53
Balance ID	BOO1
Batch Comment	RUSH
Person's name who did the concentration	AG
Exchange Solvent Lot #	EX MC CYCL _56
Exchange Solvent Name	DCM
Final Concentrator Volume	1 ML mL
MeCL2 Lot #	EX MC CYCL _56
MeCl2/Acetone Lot #	EX DCM/ACETON _82
Microwave Start Time	8.50/5/29/13
Microwave Stop Time	9.25/5/29/13
Na2SO4 Lot Number	EX NA2S04 A_67
Ottawa Sand Lot #	OTTAW SAND_19
Person's name who did the prep	AG
SOP Number	T P EX 014
Person who witnessed spiking	ROBIN
Surrogate Lot Number	EX LLSURINT _182
Water Bath ID	TURBOVAP2#1/2/3/
Water Bath Temperature	40 C

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90622-2

SDG No.: 68090622-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV1358B-CS	680-90622-22
CV0525A-CS-SP	680-90622-23
CV0525B-CS-SP	680-90622-24
CV0729A-CS-SP	680-90622-25
CV0729B-CS-SP	680-90622-26
CV1016A-CS-SP	680-90622-27
FM0217A-CS	680-90622-28
CV0828A-CS-SP	680-90622-29
CV0828B-CS-SP	680-90622-30
CV0828C-CS-SP	680-90622-31
CV0838A-CS-SP	680-90622-32
CV0838B-CS-SP	680-90622-33
CV0912A-CS-SP	680-90622-34
CV0912B-CS-SP	680-90622-35
CV0912C-CS-SP	680-90622-36
CV0912D-CS-SP	680-90622-37
CV1189A-CS-SP	680-90622-38
CV1189B-CS-SP	680-90622-39

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90622-2

SDG Number: 68090622-2

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: 680-90622-2

SDG Number: 68090622-2

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: 680-90622-2

SDG Number: 68090622-2

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: 680-90622-2

SDG Number: 68090622-2

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.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: Moisture Method: Moisture

Start Date: 05/28/2013 06:15 End Date: 05/28/2013 10:02

Lab Sample ID	D / F	Type	Time	Analytes																			
				Moist																			
LCSD 660-137823/21	1	T	06:15	X																			
LCS 660-137823/1	1	T	06:17	X																			
680-90622-25	1	T	06:28	X																			
ZZZZZZ			06:35																				
680-90622-23	1	T	06:43	X																			
ZZZZZZ			06:54																				
ZZZZZZ			06:56																				
ZZZZZZ			07:06																				
ZZZZZZ			07:09																				
ZZZZZZ			07:31																				
ZZZZZZ			07:38																				
ZZZZZZ			07:45																				
ZZZZZZ			07:47																				
ZZZZZZ			08:10																				
ZZZZZZ			08:27																				
ZZZZZZ			08:34																				
ZZZZZZ			09:07																				
ZZZZZZ			09:52																				
ZZZZZZ			09:52																				
ZZZZZZ			10:01																				
ZZZZZZ			10:02																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: Moisture Method: Moisture

Start Date: 05/28/2013 10:41 End Date: 05/28/2013 12:54

Lab Sample ID	D / F	Type	Time	Analytes																				
				Moist																				
LCSD 660-137835/1	1	T	10:41	X																				
ZZZZZZ			10:59																					
680-90622-22	1	T	11:01	X																				
ZZZZZZ			11:12																					
ZZZZZZ			11:15																					
ZZZZZZ			11:30																					
ZZZZZZ			11:31																					
ZZZZZZ			11:36																					
ZZZZZZ			11:41																					
ZZZZZZ			11:56																					
ZZZZZZ			12:04																					
ZZZZZZ			12:13																					
ZZZZZZ			12:15																					
ZZZZZZ			12:21																					
ZZZZZZ			12:22																					
ZZZZZZ			12:30																					
ZZZZZZ			12:33																					
ZZZZZZ			12:40																					
ZZZZZZ			12:40																					
ZZZZZZ			12:48																					
ZZZZZZ			12:54																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa　　Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: NOEQUIP　　Method: Moisture

Start Date: 05/24/2013 06:58　　End Date: 05/24/2013 06:58

Lab Sample ID	D/F	Type	Time	Analytes: Moist
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	
680-90622-24	1	T	06:58	X
680-90622-24 MS	1	T	06:58	X
680-90622-24 MSD	1	T	06:58	X
680-90622-36	1	T	06:58	X
680-90622-33	1	T	06:58	X
ZZZZZZ			06:58	
680-90622-39	1	T	06:58	X
680-90622-32	1	T	06:58	X
680-90622-37	1	T	06:58	X
680-90622-27	1	T	06:58	X
680-90622-31	1	T	06:58	X
680-90622-38	1	T	06:58	X
680-90622-35	1	T	06:58	X
680-90622-34	1	T	06:58	X
680-90622-28	1	T	06:58	X
ZZZZZZ			06:58	
ZZZZZZ			06:58	
680-90622-26	1	T	06:58	X
680-90622-30	1	T	06:58	X
680-90622-29	1	T	06:58	X
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	
ZZZZZZ			06:58	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/24/2013 06:58 End Date: 05/24/2013 06:58

Lab Sample ID	D / F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			06:58																				
ZZZZZZ			06:58																				
ZZZZZZ			06:58																				
ZZZZZZ			06:58																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Batch Number: 137757 Batch Start Date: 05/24/13 06:58 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-90622-A-24	CV0525B-CS-SP	Moisture	T	10	0 g	4.41 g	3.27 g		
680-90622-A-24 MS	CV0525B-CS-SP	Moisture	T	10	0 g	4.41 g	3.27 g		
680-90622-A-24 MSD	CV0525B-CS-SP	Moisture	T	10	0 g	4.41 g	3.27 g		
680-90622-A-36	CV0912C-CS-SP	Moisture	T	11	0 g	4.67 g	3.79 g		
680-90622-A-33	CV0838B-CS-SP	Moisture	T	12	0 g	4.62 g	3.67 g		
680-90622-A-39	CV1189B-CS-SP	Moisture	T	14	0 g	4.32 g	3.50 g		
680-90622-A-32	CV0838A-CS-SP	Moisture	T	15	0 g	4.49 g	3.68 g		
680-90622-A-37	CV0912D-CS-SP	Moisture	T	16	0 g	4.98 g	3.65 g		
680-90622-A-27	CV1016A-CS-SP	Moisture	T	17	0 g	4.63 g	3.65 g		
680-90622-A-31	CV0828C-CS-SP	Moisture	T	18	0 g	4.16 g	3.11 g		
680-90622-A-38	CV1189A-CS-SP	Moisture	T	19	0 g	4.34 g	3.49 g		
680-90622-A-35	CV0912B-CS-SP	Moisture	T	20	0 g	4.53 g	3.42 g		
680-90622-A-34	CV0912A-CS-SP	Moisture	T	21	0 g	4.34 g	3.30 g		
680-90622-A-28	FM0217A-CS	Moisture	T	22	0 g	4.44 g	2.99 g		
680-90622-A-26	CV0729B-CS-SP	Moisture	T	25	0 g	4.82 g	3.71 g		
680-90622-B-30	CV0828B-CS-SP	Moisture	T	26	0 g	4.47 g	3.38 g		
680-90622-A-29	CV0828A-CS-SP	Moisture	T	27	0 g	4.67 g	3.76 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	5.24.132

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Batch Number: 137823 Batch Start Date: 05/28/13 06:15 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-137823/1		Moisture		0 g	10.035 g	9.013 g			
680-90622-A-23	CV0525A-CS-SP	Moisture	T	0 g	4.414 g	3.568 g			
680-90622-A-25	CV0729A-CS-SP	Moisture	T	0 g	4.306 g	3.59 g			
LCSD 660-137823/21		Moisture		0 g	10.021 g	9.011 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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90622-2

SDG No.: 68090622-2

Batch Number: 137835 Batch Start Date: 05/28/13 10:41 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCSD 660-137835/1		Moisture		0 g	10.026 g	9.027 g			
680-90622-A-22	CV1358B-CS	Moisture	T	0 g	4.203 g	2.93 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.

Shipping and Receiving Documents

Serial Number 64604

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Alternate Laboratory Name/Location: Test Am Tampa
Phone: 680-9622
Fax:

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

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

CLIENT (SITE) PM.	CLIENT PHONE	CLIENT FAX
(b) (6)		

(b) (6)

PAGE 2 OF 4

STANDARD REPORT DELIVERY ○
DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMP.	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 22 PAH	REQUIRED ANALYSIS: Metals	REMARKS
5-20-13	1445	CV0626B-CS	C		X			X	X	MS/MSD
5-20-13	1445	CV0626B-CS(sieve)	C		X				X	
5-21-13	1135	052113-RB-Shovel		X				X	X	
5-21-13	0855	CV0747A-CS	C		X			X		
	0855	CV0747A-CSD	C		X			X		
	1050	CV1351A-CS	C		X			X		
	1040	CV1351B-CS	C		X			X		
	0930	CV1358A-CS	C		X			X	X	
	0930	CV1358A-CSD	C		X			X	X	
	0940	CV1358B-CS	C		X			X		
	0951	CV0525A-CS-SP	C		X			X		
	1005	CV0525B-CS-SP	C		X			X		MS/MSD

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-22-13	1330						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	5/23/13	0930						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS

TAL8240-680 (1008)

Serial Number 64605

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Alternate Laboratory Name/Location: Test Am Tampa
Phone: 680-90622
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE
35th Ave Removal	2005148	AL	3 of 4

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)
(b) (6)

CLIENT FAX:
CLIENT E-MAIL:
CLIENT ADDRESS: (b) (6)
COMPANY CONTRACTING THIS WORK (if applicable):

REQUIRED ANALYSIS: 22 PAH; RCRA 8 Metals

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

PRESERVATIVE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED								REMARKS
5-21-13	0907	CV0729A-CS-SP	C		X			X								
	0921	CV0729B-CS-SP	C		X			X								
	1058	CV1026A-CS-SP	C		X			X	X							
	1500	FM0217A-CS	C		X			X								
	1343	CV0828A-CS-SP	C		X			X								
	1402	CV0828B-CS-SP	C		X			X	X							
	1355	CV0828C-CS-SP	C		X			X								
	1430	CV0838A-CS-SP	C		X			X								
	1441	CV0838B-CS-SP	C		X			X								
	1515	CV0912A-CS-SP	C		X			X								
	1522	CV0912B-CS-SP	C		X			X								
	1540	CV0912C-CS-SP	C		X			X								

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-22-13	1330						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	5/23/13	0930						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS

TAL8240-680 (1008)

Serial Number 64606

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Alternate Laboratory Name/Location: Test Am. Tampa
Phone: 680-90622
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	200514B-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		
(b) (6)	CLIENT PHONE	CLIENT FAX

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 4 OF 4

STANDARD REPORT DELIVERY ○
DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○
10 Calendar Days
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 12 PAH	REQUIRED ANALYSIS: RCRA 8 Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5-21-13	1550	CV0912D-CS-SP	C		X			X			
	1303	CV1189A-CS-SP	C		X			X			
	1315	CV1189B-CS-SP	C		X			X			
	1402	CV0828B-CS-SP (sieve)	C		X				X		
	1058	CV1616A-CS-SP (sieve)	C		X				X		
	0930	CV1358A-CS (sieve)	C		X				X		
	0930	CV1358A-CSD (sieve)	C		X				X		

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-22-13	1330						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	5/23/13	0930						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-2
SDG Number: 68090622-2

Login Number: 90622
List Source: TestAmerica Savannah
List Number: 1
Creator: Snead, Joshua

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

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-2
SDG Number: 68090622-2

Login Number: 90622
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 05/23/13 02:38 PM

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-90622-2
TestAmerica Sample Delivery Group: 68090622-2
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:
6/5/2013 9:40:58 AM
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

Job ID: 680-90622-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90622-2

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 05/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.6 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1358B-CS (680-90622-22), CV0525A-CS-SP (680-90622-23), CV0525B-CS-SP (680-90622-24), CV0729A-CS-SP (680-90622-25), CV0729B-CS-SP (680-90622-26), CV1016A-CS-SP (680-90622-27), FM0217A-CS (680-90622-28), CV0828A-CS-SP (680-90622-29), CV0828B-CS-SP (680-90622-30), CV0828C-CS-SP (680-90622-31), CV0838A-CS-SP (680-90622-32), CV0838B-CS-SP (680-90622-33), CV0912A-CS-SP (680-90622-34), CV0912B-CS-SP (680-90622-35), CV0912C-CS-SP (680-90622-36), CV0912D-CS-SP (680-90622 37), CV1189A CS-SP (680 90622 38) and CV1189B CS SP (680-90622 39) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/24/2013 and 05/29/2013 and analyzed on 05/29/2013, 05/30/2013 and 06/03/2013.

Samples CV1358B-CS (680-90622-22)[4X], CV0525A-CS-SP (680-90622-23)[4X], CV0729A-CS-SP (680-90622-25)[10X], CV0729B-CS-SP (680-90622-26)[4X], CV1016A-CS-SP (680-90622-27)[10X], FM0217A-CS (680-90622-28)[4X], CV0828A-CS-SP (680-90622-29)[4X], CV0912A-CS-SP (680-90622-34)[20X], CV0912A-CS-SP (680-90622-34)[4X], CV0912B-CS-SP (680-90622-35)[4X], CV0912C-CS-SP (680-90622-36)[4X], CV0912D-CS-SP (680-90622-37)[4X], CV1189A-CS-SP (680-90622-38)[4X] and CV1189B-CS-SP (680-90622-39)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Phenanthrene was detected in method blank MB 660-137790/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

o-Terphenyl recovered outside the surrogate recovery criteria for CV0729A-CS-SP (680-90622-25) and CV1016A-CS-SP (680-90622-27).

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample CV0525B-CS-SPMS (680-90622-24) in batch 660-137911.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-90686-7 in batch 660-137876. Benzo[g,h,i]perylene and Chrysene exceeded the RPD limit.

No other difficulties were encountered during the SVOAs analysis.

Job ID: 680-90622-2 (Continued)

Laboratory: TestAmerica Savannah (Continued)

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: 680-90622-2
SDG: 68090622-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90622-22	CV1358B-CS	Solid	05/21/13 09:40	05/23/13 09:30
680-90622-23	CV0525A-CS-SP	Solid	05/21/13 09:51	05/23/13 09:30
680-90622-24	CV0525B-CS-SP	Solid	05/21/13 10:05	05/23/13 09:30
680-90622-25	CV0729A-CS-SP	Solid	05/21/13 09:07	05/23/13 09:30
680-90622-26	CV0729B-CS-SP	Solid	05/21/13 09:21	05/23/13 09:30
680-90622-27	CV1016A-CS-SP	Solid	05/21/13 10:58	05/23/13 09:30
680-90622-28	FM0217A-CS	Solid	05/21/13 15:00	05/23/13 09:30
680-90622-29	CV0828A-CS-SP	Solid	05/21/13 13:43	05/23/13 09:30
680-90622-30	CV0828B-CS-SP	Solid	05/21/13 14:02	05/23/13 09:30
680-90622-31	CV0828C-CS-SP	Solid	05/21/13 13:55	05/23/13 09:30
680-90622-32	CV0838A-CS-SP	Solid	05/21/13 14:30	05/23/13 09:30
680-90622-33	CV0838B-CS-SP	Solid	05/21/13 14:41	05/23/13 09:30
680-90622-34	CV0912A-CS-SP	Solid	05/21/13 15:15	05/23/13 09:30
680-90622-35	CV0912B-CS-SP	Solid	05/21/13 15:22	05/23/13 09:30
680-90622-36	CV0912C-CS-SP	Solid	05/21/13 15:40	05/23/13 09:30
680-90622-37	CV0912D-CS-SP	Solid	05/21/13 15:50	05/23/13 09:30
680-90622-38	CV1189A-CS-SP	Solid	05/21/13 13:03	05/23/13 09:30
680-90622-39	CV1189B-CS-SP	Solid	05/21/13 13:15	05/23/13 09:30

Method Summary

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

TestAmerica Job ID: 680-90622-2
SDG: 68090622-2

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less han the RL but greater han or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F	MS or MSD exceeds he control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Glossary

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

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

TestAmerica Job ID: 680-90622-2
SDG: 68090622-2

Client Sample ID: CV1358B-CS

Lab Sample ID: 680-90622-22
Date Collected: 05/21/13 09:40
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 69.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	580	U	580	120	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Acenaphthylene	**48**	**J**	230	29	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Anthracene	**89**		48	24	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Benzo[a]anthracene	**340**		46	23	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Benzo[a]pyrene	**350**		60	30	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Benzo[b]fluoranthene	**500**		70	35	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Benzo[g,h,i]perylene	**290**		120	25	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Benzo[k]fluoranthene	**150**		46	21	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Chrysene	**460**		52	26	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Dibenz(a,h)anthracene	**98**	**J**	120	24	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Fluoranthene	**540**		120	23	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Fluorene	**27**	**J**	120	24	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Indeno[1,2,3-cd]pyrene	**270**		120	41	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
1-Methylnaphthalene	**390**		230	25	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
2-Methylnaphthalene	**470**		230	41	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Naphthalene	**350**		230	25	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Phenanthrene	**550**	**B**	46	23	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4
Pyrene	**560**		120	21	ug/Kg	☼	05/24/13 12:33	05/29/13 19:17	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*05/24/13 12:33*	*05/29/13 19:17*	*4*

Client Sample ID: CV0525A-CS-SP

Lab Sample ID: 680-90622-23
Date Collected: 05/21/13 09:51
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	99	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Acenaphthylene	**41**	**J**	200	25	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Anthracene	**56**		42	21	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Benzo[a]anthracene	**320**		40	19	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Benzo[a]pyrene	**290**		52	26	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Benzo[b]fluoranthene	**460**		61	30	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Benzo[g,h,i]perylene	**220**		99	22	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Benzo[k]fluoranthene	**160**		40	18	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Chrysene	**580**		45	22	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Dibenz(a,h)anthracene	**94**	**J**	99	20	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Fluoranthene	**400**		99	20	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Fluorene	**42**	**J**	99	20	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Indeno[1,2,3-cd]pyrene	**230**		99	35	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
1-Methylnaphthalene	**310**		200	22	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
2-Methylnaphthalene	**470**		200	35	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Naphthalene	**310**		200	22	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Phenanthrene	**540**	**B**	40	19	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4
Pyrene	**410**		99	18	ug/Kg	☼	05/24/13 12:33	05/29/13 19:40	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*05/24/13 12:33*	*05/29/13 19:40*	*4*

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

TestAmerica Job ID: 680-90622-2
SDG: 68090622-2

Client Sample ID: CV0525B-CS-SP

Lab Sample ID: 680-90622-24

Date Collected: 05/21/13 10:05
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 74.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	45	J	140	27	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Acenaphthylene	30	J	54	6.8	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Anthracene	46		11	5.7	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Benzo[a]anthracene	200		11	5.3	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Benzo[a]pyrene	220	F	14	7.0	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Benzo[b]fluoranthene	390		16	8.2	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Benzo[g,h,i]perylene	180		27	5.9	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Benzo[k]fluoranthene	110		11	4.9	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Chrysene	430		12	6.1	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Dibenz(a,h)anthracene	66		27	5.5	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Fluoranthene	300		27	5.4	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Fluorene	31		27	5.5	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Indeno[1,2,3-cd]pyrene	170		27	9.6	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
1-Methylnaphthalene	220		54	5.9	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
2-Methylnaphthalene	430		54	9.6	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Naphthalene	460		54	5.9	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Phenanthrene	330	B	11	5.3	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1
Pyrene	280		27	5.0	ug/Kg	☼	05/24/13 12:33	05/29/13 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*05/24/13 12:33*	*05/29/13 20:02*	*1*

Client Sample ID: CV0729A-CS-SP

Lab Sample ID: 680-90622-25

Date Collected: 05/21/13 09:07
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1200	U	1200	240	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Acenaphthylene	480	U	480	59	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Anthracene	100	U	100	50	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Benzo[a]anthracene	190		95	46	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Benzo[a]pyrene	150		120	62	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Benzo[b]fluoranthene	140		140	72	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Benzo[g,h,i]perylene	110	J	240	52	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Benzo[k]fluoranthene	44	J	95	43	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Chrysene	120		110	53	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Dibenz(a,h)anthracene	89	J	240	49	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Fluoranthene	140	J	240	48	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Fluorene	240	U	240	49	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Indeno[1,2,3-cd]pyrene	180	J	240	84	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
1-Methylnaphthalene	480	U	480	52	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
2-Methylnaphthalene	480	U	480	84	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Naphthalene	480	U	480	52	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Phenanthrene	140	B	95	46	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10
Pyrene	130	J	240	44	ug/Kg	☼	05/24/13 12:33	06/03/13 11:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*30 - 130*	*05/24/13 12:33*	*06/03/13 11:59*	*10*

Client Sample ID: CV0729B-CS-SP

Lab Sample ID: 680-90622-26

Date Collected: 05/21/13 09:21
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Acenaphthylene	**120**	**J**	210	26	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Anthracene	**170**		43	22	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Benzo[a]anthracene	**440**		41	20	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Benzo[a]pyrene	**410**		54	27	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Benzo[b]fluoranthene	**720**		63	31	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Benzo[g,h,i]perylene	**220**		100	23	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Benzo[k]fluoranthene	**220**		41	19	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Chrysene	**670**		46	23	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Dibenz(a,h)anthracene	**100**		100	21	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Fluoranthene	**620**		100	21	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Fluorene	**24**	**J**	100	21	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Indeno[1,2,3-cd]pyrene	**240**		100	37	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
1-Methylnaphthalene	**230**		210	23	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
2-Methylnaphthalene	**170**	**J**	210	37	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Naphthalene	**98**	**J**	210	23	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Phenanthrene	**390**	**B**	41	20	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4
Pyrene	**640**		100	19	ug/Kg	☼	05/24/13 12:33	05/29/13 21:33	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*05/24/13 12:33*	*05/29/13 21:33*	*4*

Client Sample ID: CV1016A-CS-SP

Lab Sample ID: 680-90622-27

Date Collected: 05/21/13 10:58
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1300	U	1300	250	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Acenaphthylene	**110**	**J**	500	63	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Anthracene	**120**		110	53	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Benzo[a]anthracene	**390**		100	49	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Benzo[a]pyrene	**410**		130	65	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Benzo[b]fluoranthene	**710**		150	77	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Benzo[g,h,i]perylene	**420**		250	55	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Benzo[k]fluoranthene	**260**		100	45	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Chrysene	**520**		110	57	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Dibenz(a,h)anthracene	**280**		250	52	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Fluoranthene	**480**		250	50	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Fluorene	250	U	250	52	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Indeno[1,2,3-cd]pyrene	**460**		250	89	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
1-Methylnaphthalene	**200**	**J**	500	55	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
2-Methylnaphthalene	**200**	**J**	500	89	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Naphthalene	**130**	**J**	500	55	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Phenanthrene	**450**	**B**	100	49	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10
Pyrene	**480**		250	47	ug/Kg	☼	05/24/13 12:33	06/03/13 12:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*30 - 130*	*05/24/13 12:33*	*06/03/13 12:21*	*10*

Client Sample ID: FM0217A-CS

Lab Sample ID: 680-90622-28

Date Collected: 05/21/13 15:00
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 67.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	590	U	590	120	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Acenaphthylene	240	U	240	30	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Anthracene	**27**	**J**	50	25	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Benzo[a]anthracene	**110**		48	23	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Benzo[a]pyrene	**120**		62	31	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Benzo[b]fluoranthene	**150**		73	36	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Benzo[g,h,i]perylene	**60**	**J**	120	26	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Benzo[k]fluoranthene	**52**		48	21	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Chrysene	**160**		53	27	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Dibenz(a,h)anthracene	**48**	**J**	120	24	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Fluoranthene	**160**		120	24	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Fluorene	120	U	120	24	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Indeno[1,2,3-cd]pyrene	**110**	**J**	120	42	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
1-Methylnaphthalene	**91**	**J**	240	26	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
2-Methylnaphthalene	**170**	**J**	240	42	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Naphthalene	**140**	**J**	240	26	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Phenanthrene	**150**	**B**	48	23	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4
Pyrene	**130**		120	22	ug/Kg	☼	05/24/13 12:33	05/29/13 22:18	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*05/24/13 12:33*	*05/29/13 22:18*	*4*

Client Sample ID: CV0828A-CS-SP

Lab Sample ID: 680-90622-29

Date Collected: 05/21/13 13:43
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Acenaphthylene	**39**	**J**	200	25	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Anthracene	**92**		42	21	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Benzo[a]anthracene	**390**		40	19	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Benzo[a]pyrene	**370**		52	26	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Benzo[b]fluoranthene	**550**		61	30	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Benzo[g,h,i]perylene	**160**		100	22	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Benzo[k]fluoranthene	**160**		40	18	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Chrysene	**570**		45	22	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Dibenz(a,h)anthracene	**87**	**J**	100	20	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Fluoranthene	**690**		100	20	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Fluorene	**32**	**J**	100	20	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Indeno[1,2,3-cd]pyrene	**200**		100	35	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
1-Methylnaphthalene	**140**	**J**	200	22	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
2-Methylnaphthalene	**120**	**J**	200	35	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Naphthalene	**77**	**J**	200	22	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Phenanthrene	**700**	**B**	40	19	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4
Pyrene	**780**		100	18	ug/Kg	☼	05/24/13 12:33	05/29/13 22:40	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*05/24/13 12:33*	*05/29/13 22:40*	*4*

Client Sample ID: CV0828B-CS-SP

Lab Sample ID: 680-90622-30

Date Collected: 05/21/13 14:02
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 75.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Acenaphthylene	**40**	**J**	52	6.4	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Anthracene	**88**		11	5.4	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Benzo[a]anthracene	**200**		10	5.0	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Benzo[a]pyrene	**180**		13	6.7	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Benzo[b]fluoranthene	**350**		16	7.9	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Benzo[g,h,i]perylene	**88**		26	5.7	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Benzo[k]fluoranthene	**100**		10	4.6	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Chrysene	**300**		12	5.8	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Dibenz(a,h)anthracene	**38**		26	5.3	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Fluoranthene	**350**		26	5.2	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Fluorene	**28**		26	5.3	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Indeno[1,2,3-cd]pyrene	**94**		26	9.2	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
1-Methylnaphthalene	**140**		52	5.7	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
2-Methylnaphthalene	**130**		52	9.2	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Naphthalene	**93**		52	5.7	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Phenanthrene	**380**	**B**	10	5.0	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1
Pyrene	**330**		26	4.8	ug/Kg	☼	05/24/13 12:33	05/29/13 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*05/24/13 12:33*	*05/29/13 23:03*	*1*

Client Sample ID: CV0828C-CS-SP

Lab Sample ID: 680-90622-31

Date Collected: 05/21/13 13:55
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 74.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Acenaphthylene	**29**	**J**	53	6.7	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Anthracene	**38**		11	5.6	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Benzo[a]anthracene	**110**		11	5.2	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Benzo[a]pyrene	**100**		14	6.9	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Benzo[b]fluoranthene	**180**		16	8.1	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Benzo[g,h,i]perylene	**63**		27	5.9	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Benzo[k]fluoranthene	**57**		11	4.8	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Chrysene	**160**		12	6.0	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Dibenz(a,h)anthracene	**26**	**J**	27	5.5	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Fluoranthene	**170**		27	5.3	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Fluorene	**14**	**J**	27	5.5	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Indeno[1,2,3-cd]pyrene	**58**		27	9.5	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
1-Methylnaphthalene	**110**		53	5.9	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
2-Methylnaphthalene	**150**		53	9.5	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Naphthalene	**170**		53	5.9	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Phenanthrene	**210**	**B**	11	5.2	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1
Pyrene	**160**		27	4.9	ug/Kg	☼	05/24/13 12:33	05/29/13 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*05/24/13 12:33*	*05/29/13 23:25*	*1*

Client Sample ID: CV0838A-CS-SP

Lab Sample ID: 680-90622-32

Date Collected: 05/21/13 14:30
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Acenaphthylene	**74**		49	6.1	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Anthracene	**84**		10	5.1	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Benzo[a]anthracene	**220**		9.8	4.8	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Benzo[a]pyrene	**190**		13	6.4	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Benzo[b]fluoranthene	**320**		15	7.5	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Benzo[g,h,i]perylene	**91**		24	5.4	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Benzo[k]fluoranthene	**92**		9.8	4.4	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Chrysene	**300**		11	5.5	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Dibenz(a,h)anthracene	**37**		24	5.0	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Fluoranthene	**340**		24	4.9	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Fluorene	**29**		24	5.0	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Indeno[1,2,3-cd]pyrene	**93**		24	8.7	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
1-Methylnaphthalene	**150**		49	5.4	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
2-Methylnaphthalene	**160**		49	8.7	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Naphthalene	**130**		49	5.4	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Phenanthrene	**320**	**B**	9.8	4.8	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1
Pyrene	**340**		24	4.5	ug/Kg	☼	05/24/13 12:33	05/29/13 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*05/24/13 12:33*	*05/29/13 23:48*	*1*

Client Sample ID: CV0838B-CS-SP

Lab Sample ID: 680-90622-33

Date Collected: 05/21/13 14:41
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Acenaphthylene	**80**		50	6.3	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Anthracene	**160**		11	5.3	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Benzo[a]anthracene	**400**		10	4.9	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Benzo[a]pyrene	**410**		13	6.6	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Benzo[b]fluoranthene	**790**		15	7.7	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Benzo[g,h,i]perylene	**200**		25	5.5	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Benzo[k]fluoranthene	**280**		10	4.5	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Chrysene	**490**		11	5.7	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Dibenz(a,h)anthracene	**80**		25	5.2	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Fluoranthene	**660**		25	5.0	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Fluorene	**32**		25	5.2	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Indeno[1,2,3-cd]pyrene	**220**		25	8.9	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
1-Methylnaphthalene	**170**		50	5.5	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
2-Methylnaphthalene	**190**		50	8.9	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Naphthalene	**170**		50	5.5	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Phenanthrene	**480**	**B**	10	4.9	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1
Pyrene	**560**		25	4.7	ug/Kg	☼	05/24/13 12:33	05/30/13 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*05/24/13 12:33*	*05/30/13 00:10*	*1*

Client Sample ID: CV0912A-CS-SP

Lab Sample ID: 680-90622-34

Date Collected: 05/21/13 15:15
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1100		530	110	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Acenaphthylene	330		210	26	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Anthracene	5200		44	22	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Benzo[a]anthracene	7300		42	21	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Benzo[a]pyrene	6200		55	27	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Benzo[b]fluoranthene	8700		64	32	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Benzo[g,h,i]perylene	2500		110	23	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Benzo[k]fluoranthene	3400		42	19	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Chrysene	6800		47	24	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Dibenz(a,h)anthracene	710		110	22	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Fluorene	450		110	22	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Indeno[1,2,3-cd]pyrene	2600		110	37	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
1-Methylnaphthalene	950		210	23	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
2-Methylnaphthalene	1000		210	37	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Naphthalene	780		210	23	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4
Pyrene	16000		110	19	ug/Kg	☼	05/24/13 12:33	05/30/13 00:33	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*05/24/13 12:33*	*05/30/13 00:33*	*4*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	22000		530	110	ug/Kg	☼	05/24/13 12:33	06/03/13 17:18	20
Phenanthrene	24000	B	210	100	ug/Kg	☼	05/24/13 12:33	06/03/13 17:18	20

Client Sample ID: CV0912B-CS-SP

Lab Sample ID: 680-90622-35

Date Collected: 05/21/13 15:22
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 75.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	J	520	100	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Acenaphthylene	96	J	210	26	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Anthracene	390		44	22	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Benzo[a]anthracene	1000		42	20	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Benzo[a]pyrene	900		54	27	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Benzo[b]fluoranthene	1400		64	32	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Benzo[g,h,i]perylene	390		100	23	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Benzo[k]fluoranthene	620		42	19	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Chrysene	1100		47	24	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Dibenz(a,h)anthracene	150		100	21	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Fluoranthene	2100		100	21	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Fluorene	120		100	21	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Indeno[1,2,3-cd]pyrene	430		100	37	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
1-Methylnaphthalene	89	J	210	23	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
2-Methylnaphthalene	120	J	210	37	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Naphthalene	100	J	210	23	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Phenanthrene	1400	B	42	20	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4
Pyrene	1600		100	19	ug/Kg	☼	05/24/13 12:33	05/30/13 00:55	4

Client Sample ID: CV0912B-CS-SP

Lab Sample ID: 680-90622-35

Date Collected: 05/21/13 15:22
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 75.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	56		30 - 130	05/24/13 12:33	05/30/13 00:55	4

Client Sample ID: CV0912C-CS-SP

Lab Sample ID: 680-90622-36

Date Collected: 05/21/13 15:40
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	97	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Acenaphthylene	**70**	**J**	190	24	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Anthracene	**130**		41	20	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Benzo[a]anthracene	**410**		39	19	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Benzo[a]pyrene	**260**		50	25	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Benzo[b]fluoranthene	**370**		59	30	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Benzo[g,h,i]perylene	**280**		97	21	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Benzo[k]fluoranthene	**160**		39	17	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Chrysene	**330**		44	22	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Dibenz(a,h)an hracene	97	U	97	20	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Fluoranthene	**360**		97	19	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Fluorene	**22**	**J**	97	20	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Indeno[1,2,3-cd]pyrene	**240**		97	34	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
1-Methylnaphthalene	**37**	**J**	190	21	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
2-Methylnaphthalene	**68**	**J**	190	34	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Naphthalene	**72**	**J**	190	21	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Phenanthrene	**280**		39	19	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4
Pyrene	**420**		97	18	ug/Kg	☼	05/29/13 06:31	05/29/13 19:30	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	35		30 - 130	05/29/13 06:31	05/29/13 19:30	4

Client Sample ID: CV0912D-CS-SP

Lab Sample ID: 680-90622-37

Date Collected: 05/21/13 15:50
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 73.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Acenaphthylene	**57**	**J**	210	27	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Anthracene	**100**		45	23	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Benzo[a]anthracene	**520**		43	21	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Benzo[a]pyrene	**320**		56	28	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Benzo[b]fluoranthene	**470**		66	33	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Benzo[g,h,i]perylene	**300**		110	24	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Benzo[k]fluoranthene	**190**		43	19	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Chrysene	**460**		48	24	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Dibenz(a,h)anthracene	**130**		110	22	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Fluoranthene	**450**		110	21	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Fluorene	110	U	110	22	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Indeno[1,2,3-cd]pyrene	**240**		110	38	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
1-Methylnaphthalene	**60**	**J**	210	24	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
2-Methylnaphthalene	**94**	**J**	210	38	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4

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

TestAmerica Job ID: 680-90622-2
SDG: 68090622-2

Client Sample ID: CV0912D-CS-SP

Lab Sample ID: 680-90622-37

Date Collected: 05/21/13 15:50
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 73.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**81**	**J**	210	24	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Phenanthrene	**380**		43	21	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4
Pyrene	**590**		110	20	ug/Kg	☼	05/29/13 06:31	05/29/13 19:45	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*39*		*30 - 130*	*05/29/13 06:31*	*05/29/13 19:45*	*4*

Client Sample ID: CV1189A-CS-SP

Lab Sample ID: 680-90622-38

Date Collected: 05/21/13 13:03
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Acenaphthylene	200	U	200	24	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Anthracene	**42**		41	21	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Benzo[a]anthracene	39	U	39	19	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Benzo[a]pyrene	**94**		51	25	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Benzo[b]fluoranthene	**160**		60	30	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Benzo[g,h,i]perylene	**110**		98	22	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Benzo[k]fluoranthene	**41**		39	18	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Chrysene	**120**		44	22	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Dibenz(a,h)an hracene	98	U	98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Fluoranthene	**98**		98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Fluorene	98	U	98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Indeno[1,2,3-cd]pyrene	98	U	98	35	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
1-Methylnaphthalene	**63**	**J**	200	22	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
2-Methylnaphthalene	**78**	**J**	200	35	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Naphthalene	**48**	**J**	200	22	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Phenanthrene	**140**		39	19	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4
Pyrene	**140**		98	18	ug/Kg	☼	05/29/13 06:31	05/29/13 19:59	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*41*		*30 - 130*	*05/29/13 06:31*	*05/29/13 19:59*	*4*

Client Sample ID: CV1189B-CS-SP

Lab Sample ID: 680-90622-39

Date Collected: 05/21/13 13:15
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Acenaphthylene	200	U	200	24	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Anthracene	**27**	**J**	41	21	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Benzo[a]anthracene	**210**		39	19	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Benzo[a]pyrene	**120**		51	25	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Benzo[b]fluoranthene	**210**		60	30	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Benzo[g,h,i]perylene	**120**		98	22	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Benzo[k]fluoranthene	**59**		39	18	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Chrysene	**160**		44	22	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4

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

TestAmerica Job ID: 680-90622-2
SDG: 68090622-2

Client Sample ID: CV1189B-CS-SP
Date Collected: 05/21/13 13:15
Date Received: 05/23/13 09:30

Lab Sample ID: 680-90622-39
Matrix: Solid
Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)an hracene	98	U	98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Fluoranthene	**110**		98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Fluorene	98	U	98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Indeno[1,2,3-cd]pyrene	98	U	98	35	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
1-Methylnaphthalene	**68**	**J**	200	22	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
2-Methylnaphthalene	**86**	**J**	200	35	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Naphthalene	**63**	**J**	200	22	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Phenanthrene	**140**		39	19	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4
Pyrene	**140**		98	18	ug/Kg	☼	05/29/13 06:31	05/29/13 20:14	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*44*		*30 - 130*	*05/29/13 06:31*	*05/29/13 20:14*	*4*

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

Lab Sample ID: MB 660-137790/1-A
Matrix: Solid
Analysis Batch: 137911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137790

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		05/24/13 12:33	05/29/13 15:37	1
Acenaphthylene	40	U	40	5.0	ug/Kg		05/24/13 12:33	05/29/13 15:37	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		05/24/13 12:33	05/29/13 15:37	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		05/24/13 12:33	05/29/13 15:37	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		05/24/13 12:33	05/29/13 15:37	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		05/24/13 12:33	05/29/13 15:37	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		05/24/13 12:33	05/29/13 15:37	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		05/24/13 12:33	05/29/13 15:37	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		05/24/13 12:33	05/29/13 15:37	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		05/24/13 12:33	05/29/13 15:37	1
Fluoranthene	20	U	20	4.0	ug/Kg		05/24/13 12:33	05/29/13 15:37	1
Fluorene	20	U	20	4.1	ug/Kg		05/24/13 12:33	05/29/13 15:37	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		05/24/13 12:33	05/29/13 15:37	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		05/24/13 12:33	05/29/13 15:37	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		05/24/13 12:33	05/29/13 15:37	1
Naphthalene	40	U	40	4.4	ug/Kg		05/24/13 12:33	05/29/13 15:37	1
Phenanthrene	5.84	J	7.9	3.9	ug/Kg		05/24/13 12:33	05/29/13 15:37	1
Pyrene	20	U	20	3.7	ug/Kg		05/24/13 12:33	05/29/13 15:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*05/24/13 12:33*	*05/29/13 15:37*	*1*

Lab Sample ID: LCS 660-137790/2-A
Matrix: Solid
Analysis Batch: 137911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137790

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	668	508		ug/Kg		76	39 - 130
Acenaphthylene	668	549		ug/Kg		82	38 - 130
Anthracene	668	565		ug/Kg		84	37 - 130
Benzo[a]anthracene	668	526		ug/Kg		79	40 - 130
Benzo[a]pyrene	668	487		ug/Kg		73	49 - 130
Benzo[b]fluoranthene	668	536		ug/Kg		80	37 - 130
Benzo[g,h,i]perylene	668	545		ug/Kg		81	32 - 130
Benzo[k]fluoranthene	668	558		ug/Kg		83	32 - 130
Chrysene	668	546		ug/Kg		82	41 - 130
Dibenz(a,h)an hracene	668	503		ug/Kg		75	27 - 130
Fluoranthene	668	563		ug/Kg		84	40 - 130
Fluorene	668	555		ug/Kg		83	40 - 130
Indeno[1,2,3-cd]pyrene	668	470		ug/Kg		70	30 - 130
1-Methylnaphthalene	668	493		ug/Kg		74	31 - 130
2-Methylnaphthalene	668	528		ug/Kg		79	33 - 130
Naphthalene	668	510		ug/Kg		76	36 - 130
Phenanthrene	668	544		ug/Kg		81	42 - 130
Pyrene	668	562		ug/Kg		84	44 - 130

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

Lab Sample ID: LCS 660-137790/2-A
Matrix: Solid
Analysis Batch: 137911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137790

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	76		30 - 130

Lab Sample ID: 680-90622-24 MS
Matrix: Solid
Analysis Batch: 137911

Client Sample ID: CV0525B-CS-SP
Prep Type: Total/NA
Prep Batch: 137790

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	45	J	903	584		ug/Kg	☼	60	39 - 130
Acenaphthylene	30	J	903	638		ug/Kg	☼	67	38 - 130
Anthracene	46		903	638		ug/Kg	☼	66	37 - 130
Benzo[a]anthracene	200		903	715		ug/Kg	☼	57	40 - 130
Benzo[a]pyrene	220	F	903	624	F	ug/Kg	☼	44	49 - 130
Benzo[b]fluoranthene	390		903	865		ug/Kg	☼	53	37 - 130
Benzo[g,h,i]perylene	180		903	576		ug/Kg	☼	44	32 - 130
Benzo[k]fluoranthene	110		903	609		ug/Kg	☼	56	32 - 130
Chrysene	430		903	926		ug/Kg	☼	55	41 - 130
Dibenz(a,h)an hracene	66		903	558		ug/Kg	☼	55	27 - 130
Fluoranthene	300		903	804		ug/Kg	☼	56	40 - 130
Fluorene	31		903	640		ug/Kg	☼	67	40 - 130
Indeno[1,2,3-cd]pyrene	170		903	562		ug/Kg	☼	44	30 - 130
1-Methylnaphthalene	220		903	807		ug/Kg	☼	65	31 - 130
2-Methylnaphthalene	430		903	1130		ug/Kg	☼	78	33 - 130
Naphthalene	460		903	1130		ug/Kg	☼	75	36 - 130
Phenanthrene	330	B	903	926		ug/Kg	☼	66	42 - 130
Pyrene	280		903	800		ug/Kg	☼	58	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	58		30 - 130

Lab Sample ID: 680-90622-24 MSD
Matrix: Solid
Analysis Batch: 137911

Client Sample ID: CV0525B-CS-SP
Prep Type: Total/NA
Prep Batch: 137790

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	45	J	903	686		ug/Kg	☼	71	39 - 130	16	40
Acenaphthylene	30	J	903	728		ug/Kg	☼	77	38 - 130	13	40
Anthracene	46		903	761		ug/Kg	☼	79	37 - 130	18	40
Benzo[a]anthracene	200		903	931		ug/Kg	☼	81	40 - 130	26	40
Benzo[a]pyrene	220	F	903	813		ug/Kg	☼	65	49 - 130	26	40
Benzo[b]fluoranthene	390		903	1100		ug/Kg	☼	79	37 - 130	24	40
Benzo[g,h,i]perylene	180		903	679		ug/Kg	☼	55	32 - 130	16	40
Benzo[k]fluoranthene	110		903	805		ug/Kg	☼	77	32 - 130	28	40
Chrysene	430		903	1200		ug/Kg	☼	86	41 - 130	26	40
Dibenz(a,h)an hracene	66		903	663		ug/Kg	☼	66	27 - 130	17	40
Fluoranthene	300		903	998		ug/Kg	☼	77	40 - 130	21	40
Fluorene	31		903	737		ug/Kg	☼	78	40 - 130	14	40
Indeno[1,2,3-cd]pyrene	170		903	689		ug/Kg	☼	58	30 - 130	20	40
1-Methylnaphthalene	220		903	928		ug/Kg	☼	78	31 - 130	14	40

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

Lab Sample ID: 680-90622-24 MSD
Matrix: Solid
Analysis Batch: 137911

Client Sample ID: CV0525B-CS-SP
Prep Type: Total/NA
Prep Batch: 137790

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	430		903	1290		ug/Kg	☼	95	33 - 130	13	40
Naphthalene	460		903	1300		ug/Kg	☼	93	36 - 130	14	40
Phenanthrene	330	B	903	1130		ug/Kg	☼	89	42 - 130	20	40
Pyrene	280		903	991		ug/Kg	☼	79	44 - 130	21	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*69*		*30 - 130*

Lab Sample ID: MB 660-137845/1-A
Matrix: Solid
Analysis Batch: 137876

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	98	U	98	20	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Acenaphthylene	39	U	39	4.9	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Benzo[g,h,i]perylene	20	U	20	4.3	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Dibenz(a,h)an hracene	20	U	20	4.0	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Fluoranthene	20	U	20	3.9	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Fluorene	20	U	20	4.0	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
2-Methylnaphthalene	39	U	39	7.0	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Naphthalene	39	U	39	4.3	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Pyrene	20	U	20	3.6	ug/Kg		05/29/13 06:31	05/29/13 16:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*05/29/13 06:31*	*05/29/13 16:04*	*1*

Lab Sample ID: LCS 660-137845/2-A
Matrix: Solid
Analysis Batch: 137876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137845

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	650	395		ug/Kg		61	39 - 130
Acenaphthylene	650	383		ug/Kg		59	38 - 130
Anthracene	650	362		ug/Kg		56	37 - 130
Benzo[a]anthracene	650	417		ug/Kg		64	40 - 130
Benzo[a]pyrene	650	320		ug/Kg		49	49 - 130
Benzo[b]fluoranthene	650	261		ug/Kg		40	37 - 130
Benzo[g,h,i]perylene	650	412		ug/Kg		63	32 - 130
Benzo[k]fluoranthene	650	368		ug/Kg		57	32 - 130

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

Lab Sample ID: LCS 660-137845/2-A
Matrix: Solid
Analysis Batch: 137876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137845

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	650	429		ug/Kg		66	41 - 130
Dibenz(a,h)an hracene	650	346		ug/Kg		53	27 - 130
Fluoranthene	650	328		ug/Kg		50	40 - 130
Fluorene	650	415		ug/Kg		64	40 - 130
Indeno[1,2,3-cd]pyrene	650	314		ug/Kg		48	30 - 130
1-Methylnaphthalene	650	428		ug/Kg		66	31 - 130
2-Methylnaphthalene	650	405		ug/Kg		62	33 - 130
Naphthalene	650	412		ug/Kg		63	36 - 130
Phenanthrene	650	396		ug/Kg		61	42 - 130
Pyrene	650	395		ug/Kg		61	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*55*		*30 - 130*

GC/MS Semi VOA

Prep Batch: 137790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90622-22	CV1358B-CS	Total/NA	Solid	3546	
680-90622-23	CV0525A-CS-SP	Total/NA	Solid	3546	
680-90622-24	CV0525B-CS-SP	Total/NA	Solid	3546	
680-90622-24 MS	CV0525B-CS-SP	Total/NA	Solid	3546	
680-90622-24 MSD	CV0525B-CS-SP	Total/NA	Solid	3546	
680-90622-25	CV0729A-CS-SP	Total/NA	Solid	3546	
680-90622-26	CV0729B-CS-SP	Total/NA	Solid	3546	
680-90622-27	CV1016A-CS-SP	Total/NA	Solid	3546	
680-90622-28	FM0217A-CS	Total/NA	Solid	3546	
680-90622-29	CV0828A-CS-SP	Total/NA	Solid	3546	
680-90622-30	CV0828B-CS-SP	Total/NA	Solid	3546	
680-90622-31	CV0828C-CS-SP	Total/NA	Solid	3546	
680-90622-32	CV0838A-CS-SP	Total/NA	Solid	3546	
680-90622-33	CV0838B-CS-SP	Total/NA	Solid	3546	
680-90622-34	CV0912A-CS-SP	Total/NA	Solid	3546	
680-90622-34 - DL	CV0912A-CS-SP	Total/NA	Solid	3546	
680-90622-35	CV0912B-CS-SP	Total/NA	Solid	3546	
LCS 660-137790/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-137790/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 137845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90622-36	CV0912C-CS-SP	Total/NA	Solid	3546	
680-90622-37	CV0912D-CS-SP	Total/NA	Solid	3546	
680-90622-38	CV1189A-CS-SP	Total/NA	Solid	3546	
680-90622-39	CV1189B-CS-SP	Total/NA	Solid	3546	
LCS 660-137845/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-137845/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 137876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90622-36	CV0912C-CS-SP	Total/NA	Solid	8270C LL	137845
680-90622-37	CV0912D-CS-SP	Total/NA	Solid	8270C LL	137845
680-90622-38	CV1189A-CS-SP	Total/NA	Solid	8270C LL	137845
680-90622-39	CV1189B-CS-SP	Total/NA	Solid	8270C LL	137845
LCS 660-137845/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	137845
MB 660-137845/1-A	Method Blank	Total/NA	Solid	8270C LL	137845

Analysis Batch: 137911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90622-22	CV1358B-CS	Total/NA	Solid	8270C LL	137790
680-90622-23	CV0525A-CS-SP	Total/NA	Solid	8270C LL	137790
680-90622-24	CV0525B-CS-SP	Total/NA	Solid	8270C LL	137790
680-90622-24 MS	CV0525B-CS-SP	Total/NA	Solid	8270C LL	137790
680-90622-24 MSD	CV0525B-CS-SP	Total/NA	Solid	8270C LL	137790
680-90622-26	CV0729B-CS-SP	Total/NA	Solid	8270C LL	137790
680-90622-28	FM0217A-CS	Total/NA	Solid	8270C LL	137790
680-90622-29	CV0828A-CS-SP	Total/NA	Solid	8270C LL	137790
680-90622-30	CV0828B-CS-SP	Total/NA	Solid	8270C LL	137790
680-90622-31	CV0828C-CS-SP	Total/NA	Solid	8270C LL	137790
680-90622-32	CV0838A-CS-SP	Total/NA	Solid	8270C LL	137790

GC/MS Semi VOA (Continued)

Analysis Batch: 137911 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90622-33	CV0838B-CS-SP	Total/NA	Solid	8270C LL	137790
680-90622-34	CV0912A-CS-SP	Total/NA	Solid	8270C LL	137790
680-90622-35	CV0912B-CS-SP	Total/NA	Solid	8270C LL	137790
LCS 660-137790/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	137790
MB 660-137790/1-A	Method Blank	Total/NA	Solid	8270C LL	137790

Analysis Batch: 138011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90622-25	CV0729A-CS-SP	Total/NA	Solid	8270C LL	137790
680-90622-27	CV1016A-CS-SP	Total/NA	Solid	8270C LL	137790
680-90622-34 - DL	CV0912A-CS-SP	Total/NA	Solid	8270C LL	137790

General Chemistry

Analysis Batch: 137757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90622-24	CV0525B-CS-SP	Total/NA	Solid	Moisture	
680-90622-24 MS	CV0525B-CS-SP	Total/NA	Solid	Moisture	
680-90622-24 MSD	CV0525B-CS-SP	Total/NA	Solid	Moisture	
680-90622-26	CV0729B-CS-SP	Total/NA	Solid	Moisture	
680-90622-27	CV1016A-CS-SP	Total/NA	Solid	Moisture	
680-90622-28	FM0217A-CS	Total/NA	Solid	Moisture	
680-90622-29	CV0828A-CS-SP	Total/NA	Solid	Moisture	
680-90622-30	CV0828B-CS-SP	Total/NA	Solid	Moisture	
680-90622-31	CV0828C-CS-SP	Total/NA	Solid	Moisture	
680-90622-32	CV0838A-CS-SP	Total/NA	Solid	Moisture	
680-90622-33	CV0838B-CS-SP	Total/NA	Solid	Moisture	
680-90622-34	CV0912A-CS-SP	Total/NA	Solid	Moisture	
680-90622-35	CV0912B-CS-SP	Total/NA	Solid	Moisture	
680-90622-36	CV0912C-CS-SP	Total/NA	Solid	Moisture	
680-90622-37	CV0912D-CS-SP	Total/NA	Solid	Moisture	
680-90622-38	CV1189A-CS-SP	Total/NA	Solid	Moisture	
680-90622-39	CV1189B-CS-SP	Total/NA	Solid	Moisture	

Analysis Batch: 137823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90622-23	CV0525A-CS-SP	Total/NA	Solid	Moisture	
680-90622-25	CV0729A-CS-SP	Total/NA	Solid	Moisture	
LCS 660-137823/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-137823/21	Lab Control Sample Dup	Total/NA	Solid	Moisture	

Analysis Batch: 137835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90622-22	CV1358B-CS	Total/NA	Solid	Moisture	
LCSD 660-137835/1	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: 680-90622-2
SDG: 68090622-2

Client Sample ID: CV1358B-CS

Lab Sample ID: 680-90622-22
Date Collected: 05/21/13 09:40
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 69.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137790	05/24/13 12:33	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137911	05/29/13 19:17	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137835	05/28/13 11:01	AG	TAL TAM

Client Sample ID: CV0525A-CS-SP

Lab Sample ID: 680-90622-23
Date Collected: 05/21/13 09:51
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137790	05/24/13 12:33	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137911	05/29/13 19:40	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137823	05/28/13 06:43	AG	TAL TAM

Client Sample ID: CV0525B-CS-SP

Lab Sample ID: 680-90622-24
Date Collected: 05/21/13 10:05
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137790	05/24/13 12:33	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137911	05/29/13 20:02	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137757	05/24/13 06:58	AG	TAL TAM

Client Sample ID: CV0729A-CS-SP

Lab Sample ID: 680-90622-25
Date Collected: 05/21/13 09:07
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137790	05/24/13 12:33	RN	TAL TAM
Total/NA	Analysis	8270C LL		10	138011	06/03/13 11:59	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137823	05/28/13 06:28	AG	TAL TAM

Client Sample ID: CV0729B-CS-SP

Lab Sample ID: 680-90622-26
Date Collected: 05/21/13 09:21
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137790	05/24/13 12:33	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137911	05/29/13 21:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137757	05/24/13 06:58	AG	TAL TAM

Client Sample ID: CV1016A-CS-SP

Lab Sample ID: 680-90622-27

Date Collected: 05/21/13 10:58
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137790	05/24/13 12:33	RN	TAL TAM
Total/NA	Analysis	8270C LL		10	138011	06/03/13 12:21	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137757	05/24/13 06:58	AG	TAL TAM

Client Sample ID: FM0217A-CS

Lab Sample ID: 680-90622-28

Date Collected: 05/21/13 15:00
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 67.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137790	05/24/13 12:33	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137911	05/29/13 22:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137757	05/24/13 06:58	AG	TAL TAM

Client Sample ID: CV0828A-CS-SP

Lab Sample ID: 680-90622-29

Date Collected: 05/21/13 13:43
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137790	05/24/13 12:33	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137911	05/29/13 22:40	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137757	05/24/13 06:58	AG	TAL TAM

Client Sample ID: CV0828B-CS-SP

Lab Sample ID: 680-90622-30

Date Collected: 05/21/13 14:02
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 75.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137790	05/24/13 12:33	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137911	05/29/13 23:03	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137757	05/24/13 06:58	AG	TAL TAM

Client Sample ID: CV0828C-CS-SP

Lab Sample ID: 680-90622-31

Date Collected: 05/21/13 13:55
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137790	05/24/13 12:33	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137911	05/29/13 23:25	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137757	05/24/13 06:58	AG	TAL TAM

Client Sample ID: CV0838A-CS-SP

Lab Sample ID: 680-90622-32

Date Collected: 05/21/13 14:30
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137790	05/24/13 12:33	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137911	05/29/13 23:48	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137757	05/24/13 06:58	AG	TAL TAM

Client Sample ID: CV0838B-CS-SP

Lab Sample ID: 680-90622-33

Date Collected: 05/21/13 14:41
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137790	05/24/13 12:33	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137911	05/30/13 00:10	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137757	05/24/13 06:58	AG	TAL TAM

Client Sample ID: CV0912A-CS-SP

Lab Sample ID: 680-90622-34

Date Collected: 05/21/13 15:15
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137790	05/24/13 12:33	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137911	05/30/13 00:33	SCC	TAL TAM
Total/NA	Prep	3546	DL		137790	05/24/13 12:33	RN	TAL TAM
Total/NA	Analysis	8270C LL	DL	20	138011	06/03/13 17:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137757	05/24/13 06:58	AG	TAL TAM

Client Sample ID: CV0912B-CS-SP

Lab Sample ID: 680-90622-35

Date Collected: 05/21/13 15:22
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137790	05/24/13 12:33	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137911	05/30/13 00:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137757	05/24/13 06:58	AG	TAL TAM

Client Sample ID: CV0912C-CS-SP

Lab Sample ID: 680-90622-36

Date Collected: 05/21/13 15:40
Matrix: Solid
Date Received: 05/23/13 09:30
Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137845	05/29/13 06:31	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	137876	05/29/13 19:30	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137757	05/24/13 06:58	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-90622-2
SDG: 68090622-2

Client Sample ID: CV0912D-CS-SP

Lab Sample ID: 680-90622-37

Date Collected: 05/21/13 15:50
Date Received: 05/23/13 09:30

Matrix: Solid
Percent Solids: 73.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137845	05/29/13 06:31	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	137876	05/29/13 19:45	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137757	05/24/13 06:58	AG	TAL TAM

Client Sample ID: CV1189A-CS-SP

Lab Sample ID: 680-90622-38

Date Collected: 05/21/13 13:03
Date Received: 05/23/13 09:30

Matrix: Solid
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137845	05/29/13 06:31	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	137876	05/29/13 19:59	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137757	05/24/13 06:58	AG	TAL TAM

Client Sample ID: CV1189B-CS-SP

Lab Sample ID: 680-90622-39

Date Collected: 05/21/13 13:15
Date Received: 05/23/13 09:30

Matrix: Solid
Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137845	05/29/13 06:31	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	137876	05/29/13 20:14	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137757	05/24/13 06:58	AG	TAL TAM

Laboratory References:

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

Serial Number 64604

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Alternate Laboratory Name/Location: Test Am Tampa
Phone: 680-9622
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal	200548-1356	AZ	2	4

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

CLIENT (SITE) PM.	CLIENT PHONE	CLIENT FAX
(b) (6)		

(b) (6)

(b) (6)

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

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 22 PAH	REQUIRED ANALYSIS: Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5-20-13	1445	CV0626B-CS	C		X			X	X		MS/MSD
5-20-13	1445	CV0626B-CS(sieve)	C		X				X		
5-21-13	1135	052113-RB-Shovel		X				X	X		
5-21-13	0855	CV0747A-CS	C		X			X			
	0855	CV0747A-CSD	C		X			X			
	1050	CV1351A-CS	C		X			X			
	1040	CV1351B-CS	C		X			X			
	0930	CV1358A-CS	C		X			X	X		
	0930	CV1358A-CSD	C		X			X	X		
	0940	CV1358B-CS	C		X			X			
	0951	CV0525A-CS-SP	C		X			X			
	1005	CV0525B-CS-SP	C		X			X			MS/MSD

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-22-13	1330						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	5/23/13	0930						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS

TAL-8240-880 (1008)

Page 27 of 33

05/27/2013

Serial Number 64605

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Alternate Laboratory Name/Location: Test Am. Tampa
Phone:
Fax: 680-90622

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005148	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

CLIENT FAX

CLIENT E-MAIL

(b) (6)

CLIENT ADDRESS (b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 3 of 4

STANDARD REPORT DELIVERY ○
DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 22 PAH	RCRA 8 Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5-21-13	0907	CV0729A-CS-SP	C		X			X			
	0921	CV0729B-CS-SP	C		X			X			
	1058	CV1026A-CS-SP	C		X			X	X		
	1500	FM0217A-CS	C		X			X			
	1343	CV0828A-CS-SP	C		X			X			
	1402	CV0828B-CS-SP	C		X			X	X		
	1355	CV0828C-CS-SP	C		X			X			
	1430	CV0838A-CS-SP	C		X			X			
	1441	CV0838B-CS-SP	C		X			X			
	1515	CV0912A-CS-SP	C		X			X			
	1522	CV0912B-CS-SP	C		X			X			
	1540	CV0912C-CS-SP	C		X			X			

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-22-13	1330						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	5/23/13	0930						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS

TAL-8240-080 (1006)

Page 28 of 33

6/5/2013

Serial Number 64606

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Alternate Laboratory Name/Location: TEST Am Tampa
Phone: 680-90622
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 2005148-1356
PROJECT LOCATION (STATE): AL
PAGE 4 OF 4

TAL (LAB) PROJECT MANAGER: Lisa Harvey
P.O. NUMBER:
CONTRACT NO.:
CLIENT PHONE:
CLIENT FAX:

(b) (6)

(b) (6)

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

STANDARD REPORT DELIVERY ○
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
10 Calendar Days
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 12 PAH	REQUIRED ANALYSIS: RCRA 8 Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5-21-13	1550	CV0912D-CS-SP	C		X			X			
	1303	CV1189A-CS-SP	C		X			X			
	1315	CV1189B-CS-SP	C		X			X			
	1402	CV0828B-CS-SP (sieve)	C		X				X		
	1058	CV1616A-CS-SP (sieve)	C		X				X		
	0930	CV1358A-CS (sieve)	C		X				X		
	0930	CV1358A-CSD (sieve)	C		X				X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-22-13	1330						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	5/23/13	0930						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS

TAL-9240-680 (1008)

Page 29 of 33

6/5/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-2
SDG Number: 68090622-2

Login Number: 90622
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Savannah

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

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-2
SDG Number: 68090622-2

Login Number: 90622
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 05/23/13 02:38 PM

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

Certification Summary

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

TestAmerica Job ID: 680-90622-2
SDG: 68090622-2

Laboratory: TestAmerica Savannah

All certifica ions held by this laboratory are listed. Not all cer ifications 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
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
Ilinois	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 certifica ions held by this laboratory are listed. Not all cer ifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13

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

Certification Summary

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

TestAmerica Job ID: 680-90622-2
SDG: 68090622-2

Laboratory: TestAmerica Tampa (Continued)

All certifica ions held by this laboratory are listed. Not all cer ifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14