REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-90723-2
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	05/23/2013 and 05/24/2013
Reviewer:	Jenine Abbassi, URS Group, Inc.	Date:	06/24/2013
Concurrence[2]:	Martha Meyers-Lee, URS Group, Inc.	Date:	06/24/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 680-90622-15 (052113-RB-Shovel).	
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-	

[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
				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 680-90622-1.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			• CV1014A-CSD (680-90723-22) is a field duplicate of CV1014A-CS (680-90723-21). • CV1242A-CSD (680-90723-35) is a field duplicate of CV1242A-CS (680-90723-34).	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to **Attachment B** (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	✓			• Instrument ID: BSMC5973 • Initial Calibration: 05/22/2013 • ICV: 05/22/13 @ 18:24 • CCV: 06/04/13 @ 10:50 • CCV: 06/05/13 @ 11:24 • Instrument ID: BSMD5973 • Initial Calibration: 05/23/2013 • ICV: 05/23/13 @ 15:41 • CCV: 06/06/13 @ 12:56	

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)):
  ○ If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects
  ○ If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects
• ICV and CCV (Criteria: ≤20%D (≤50% for poor
	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
performers) and RF ≥0.050 (≥0.010 for poor performers)): ○ If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects ○ If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds					
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects.			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			• Prep Batch 137991: 680-90723-24 (CV1015A-CS), MS/MSD • Prep Batch 137999: 680-90852-9 (Batch sample), MS/MSD. Lab sample 680-90852-9 is a project-specific sample (FM0322A-CS-SP) that was selected by TestAmerica for the PAH MS/MSD analyses, and the results were reported under Job ID 680-90852-1.	
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. • 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		✓		CV1015A-CS (680-90723-24): • Acenaphthylene @ 30 and 38%R (38-130). Qualification of data is not required[3]. • Anthracene @ 32 and 39%R (37-130). Qualification of data is not required[3]. • Benzo[a]anthracene @ 36 and 46%R (40-130). Qualification of data is not required[3]. • Benzo[a]pyrene @ 26 and 33%R (49-130). J-Flag sample result. • Benzo[b]fluoranthene @ 29 and 43%R (37-130). Qualification of data is not required[3]. • Benzo[g,h,i]perylene @ 22 and 25%R (32-130). J-Flag sample result. • Benzo[k]fluoranthene @ 30 and 38%R (32-130). Qualification of data is not required[3]. • Chrysene @ 24 and 37%R (41-130). J-Flag sample result.	J

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

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				• Fluoranthene @ 21 and 46%R (40-130). Qualification of data is not required[3]. • Indeno[1,2,3-cd]pyrene @ 23 and 27%R (30-130). J-Flag sample result. • Phenanthrene @ 32 and 43%R (42-130). Qualification of data is not required[3]. • Pyrene @ 28 and 51%R (44-130). Qualification of data is not required[3].	
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.	✓				
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 C** (Case Narrative)	

Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment D**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.

DV Flag Definitions:

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

ATTACHMENT A

SAMPLE SUMMARY

Sample Summary

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90723-21	CV1014A-CS	Solid	05/23/13 13:23	05/25/13 09:45
680-90723-22	CV1014A-CSD	Solid	05/23/13 13:23	05/25/13 09:45
680-90723-23	CV1014B-CS	Solid	05/23/13 13:34	05/25/13 09:45
680-90723-24	CV1015A-CS	Solid	05/23/13 13:45	05/25/13 09:45
680-90723-25	CV1015B-CS	Solid	05/23/13 13:57	05/25/13 09:45
680-90723-26	CV1111A-CS	Solid	05/23/13 12:46	05/25/13 09:45
680-90723-27	CV0315A-CS	Solid	05/23/13 14:45	05/25/13 09:45
680-90723-28	CV0315B-CS	Solid	05/23/13 14:55	05/25/13 09:45
680-90723-29	CV1164A-CS	Solid	05/23/13 13:35	05/25/13 09:45
680-90723-30	CV1164B-CS	Solid	05/23/13 13:45	05/25/13 09:45
680-90723-31	CV1164C-CS	Solid	05/23/13 13:55	05/25/13 09:45
680-90723-32	CV1301A-CS	Solid	05/23/13 13:00	05/25/13 09:45
680-90723-33	CV1301B-CS	Solid	05/23/13 13:10	05/25/13 09:45
680-90723-34	CV1242A-CS	Solid	05/24/13 08:35	05/25/13 09:45
680-90723-35	CV1242A-CSD	Solid	05/24/13 08:35	05/25/13 09:45
680-90723-36	CV1242B-CS	Solid	05/24/13 08:43	05/25/13 09:45
680-90723-37	CV1242C-CS	Solid	05/24/13 08:53	05/25/13 09:45
680-90723-38	HP0331A-CS-SP	Solid	05/24/13 08:25	05/25/13 09:45
680-90723-39	HP0332A-CS-SP	Solid	05/24/13 08:37	05/25/13 09:45
680-90723-40	HP0332B-CS-SP	Solid	05/24/13 08:40	05/25/13 09:45

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV1014A-CS 680-90723-21		RL	CV1014A-CSD 680-90723-22		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	19	J	57	14	J	47	µg/kg	260	NA	5	104	None, absolute difference ≤ 2x Avg RL
Anthracene	36		12	22		9.8	µg/kg	54.5	NA	14	21.8	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	150		11	140		9.4	µg/kg	51	7	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	150		15	99		12	µg/kg	67.5	**41**	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	350		17	180		14	µg/kg	77.5	**64**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(g,h,i)perylene	130		28	76		23	µg/kg	127.5	NA	**54**	**51**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(k)fluoranthene	79		11	70		9.4	µg/kg	51	12	NA	NA	None, RPD ≤ 50%
Chrysene	230		13	130		11	µg/kg	60	**56**	NA	NA	**J/UJ-flag, RPD > 50%**
Dibenzo(a,h)anthracene	37		28	8.0	J	23	µg/kg	127.5	NA	29	51	None, absolute difference ≤ 2x Avg RL
Fluoranthene	250		28	200		23	µg/kg	127.5	22	NA	NA	None, RPD ≤ 50%
Fluorene	19	J	28	12	J	23	µg/kg	127.5	NA	7	51	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	96		28	66		23	µg/kg	127.5	NA	30	51	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	57		57	37	J	47	µg/kg	260	NA	20	104	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	62		57	57		47	µg/kg	260	NA	5	104	None, absolute difference ≤ 2x Avg RL
Naphthalene	38	J	57	39	J	47	µg/kg	260	NA	1	104	None, absolute difference ≤ 2x Avg RL
Phenanthrene	160		11	130		9.4	µg/kg	51	21	NA	NA	None, RPD ≤ 50%
Pyrene	260		28	190		23	µg/kg	127.5	**31**	NA	NA	None, RPD ≤ 50%

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

µg/kg - micrograms per kilogram
J - Estimated value
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference
UJ - Not detected and the limit is estimated

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

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV1242A-CS 680-90723-34		RL	CV1242A-CSD 680-90723-35		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	53	J	200	55	J	200	µg/kg	1000	NA	2	400	None, absolute difference ≤ 2x Avg RL
Anthracene	130		42	55		43	µg/kg	212.5	NA	75	85	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	610		40	380		41	µg/kg	202.5	**46**	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	480		52	360		53	µg/kg	262.5	**29**	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	790		61	590		62	µg/kg	307.5	**29**	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	340		99	270		100	µg/kg	497.5	NA	70	199	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	230		40	180		41	µg/kg	202.5	NA	50	81	None, absolute difference ≤ 2x Avg RL
Chrysene	580		45	420		46	µg/kg	227.5	**32**	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	100		99	75	J	100	µg/kg	497.5	NA	25	199	None, absolute difference ≤ 2x Avg RL
Fluoranthene	1200		99	690		100	µg/kg	497.5	**54**	NA	NA	**J/UJ-flag, RPD > 50%**
Fluorene	39	J	99	28	J	100	µg/kg	497.5	NA	11	199	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	290		99	240		100	µg/kg	497.5	NA	50	199	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	290		200	340		200	µg/kg	1000	NA	50	400	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	430		200	240		200	µg/kg	1000	NA	190	400	None, absolute difference ≤ 2x Avg RL
Naphthalene	220		200	110	J	200	µg/kg	1000	NA	110	400	None, absolute difference ≤ 2x Avg RL
Phenanthrene	710		40	440		41	µg/kg	202.5	**47**	NA	NA	None, RPD ≤ 50%
Pyrene	840		99	550		100	µg/kg	497.5	**42**	NA	NA	None, RPD ≤ 50%

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

µg/kg - micrograms per kilogram
J - Estimated value
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference
UJ - Not detected and the limit is estimated

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

ATTACHMENT C

CASE NARRATIVE

Job ID: 680-90723-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90723-2

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 05/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1014A-CS (680-90723-21), CV1014A-CSD (680-90723-22), CV1014B-CS (680-90723-23), CV1015A-CS (680-90723-24), CV1015B-CS (680-90723-25), CV1111A-CS (680-90723-26), CV0315A-CS (680-90723-27), CV0315B-CS (680-90723-28), CV1164A-CS (680-90723-29), CV1164B-CS (680-90723-30), CV1164C-CS (680-90723-31), CV1301A-CS (680-90723-32), CV1301B-CS (680-90723-33), CV1242A-CS (680-90723-34), CV1242A-CSD (680-90723-35), CV1242B-CS (680-90723-36), CV1242C-CS (680-90723 37), HP0331A CS SP (680-90723 38), HP0332A CS SP (680-90723 39) and HP0332B CS-SP (680-90723 40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/03/2013 and analyzed on 06/04/2013, 06/05/2013 and 06/06/2013.

Samples CV1014B-CS (680-90723-23)[4X], CV1164A-CS (680-90723-29)[4X], CV1164B-CS (680-90723-30)[4X], CV1164C-CS (680-90723-31)[4X], CV1301B-CS (680-90723-33)[4X], CV1242A-CS (680-90723-34)[4X], CV1242A-CSD (680-90723-35)[4X], CV1242B-CS (680-90723-36)[4X], CV1242C-CS (680-90723-37)[4X], HP0331A-CS-SP (680-90723-38)[4X], HP0332A-CS-SP (680-90723-39)[4X] and HP0332B-CS-SP (680-90723-40)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1015A-CS (680-90723-24) in batch 660-138098.

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample 680-90852-9 in batch 660-138101.

No other difficulties were encountered during the SVOAs analysis.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1014A-CS

Lab Sample ID: 680-90723-21

Date Collected: 05/23/13 13:23
Date Received: 05/25/13 09:45

Matrix: Solid
Percent Solids: 70.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Acenaphthylene	19	J	57	7.1	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Anthracene	36		12	6.0	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Benzo[a]anthracene	150		11	5.5	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Benzo[a]pyrene	150		15	7.4	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Benzo[b]fluoranthene	350		17	8.6	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Benzo[g,h,i]perylene	130		28	6.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Benzo[k]fluoranthene	79		11	5.1	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Chrysene	230		13	6.4	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Dibenz(a,h)anthracene	37		28	5.8	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Fluoranthene	250		28	5.7	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Fluorene	19	J	28	5.8	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Indeno[1,2,3-cd]pyrene	96		28	10	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
1-Methylnaphthalene	57		57	6.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
2-Methylnaphthalene	62		57	10	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Naphthalene	38	J	57	6.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Phenanthrene	160		11	5.5	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Pyrene	260		28	5.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*06/03/13 10:11*	*06/04/13 19:27*	*1*

Client Sample ID: CV1014A-CSD

Lab Sample ID: 680-90723-22

Date Collected: 05/23/13 13:23
Date Received: 05/25/13 09:45

Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Acenaphthylene	14	J	47	5.9	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Anthracene	22		9.8	4.9	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Benzo[a]anthracene	140		9.4	4.6	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Benzo[a]pyrene	99		12	6.1	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Benzo[b]fluoranthene	180		14	7.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Benzo[g,h,i]perylene	76		23	5.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Benzo[k]fluoranthene	70		9.4	4.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Chrysene	130		11	5.3	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Dibenz(a,h)anthracene	8.0	J	23	4.8	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Fluoranthene	200		23	4.7	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Fluorene	12	J	23	4.8	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Indeno[1,2,3-cd]pyrene	66		23	8.3	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
1-Methylnaphthalene	37	J	47	5.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
2-Methylnaphthalene	57		47	8.3	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Naphthalene	39	J	47	5.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Phenanthrene	130		9.4	4.6	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Pyrene	190		23	4.3	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*06/03/13 10:11*	*06/04/13 19:46*	*1*

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

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1014B-CS

Lab Sample ID: 680-90723-23

Date Collected: 05/23/13 13:34
Date Received: 05/25/13 09:45

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	480	U	480	96	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Acenaphthylene	190	U	190	24	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Anthracene	40	U	40	20	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Benzo[a]anthracene	**93**		38	19	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Benzo[a]pyrene	**66**		50	25	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Benzo[b]fluoranthene	**82**		59	29	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Benzo[g,h,i]perylene	**42**	**J**	96	21	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Benzo[k]fluoranthene	**17**	**J**	38	17	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Chrysene	**41**	**J**	43	22	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Dibenz(a,h)an hracene	96	U	96	20	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Fluoranthene	**67**	**J**	96	19	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Fluorene	96	U	96	20	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Indeno[1,2,3-cd]pyrene	96	U	96	34	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
1-Methylnaphthalene	**95**	**J**	190	21	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
2-Methylnaphthalene	**100**	**J**	190	34	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Naphthalene	**58**	**J**	190	21	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Phenanthrene	**76**		38	19	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Pyrene	**54**	**J**	96	18	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*52*		*30 - 130*	*06/03/13 10:11*	*06/05/13 14:41*	*4*

Client Sample ID: CV1015A-CS

Lab Sample ID: 680-90723-24

Date Collected: 05/23/13 13:45
Date Received: 05/25/13 09:45

Matrix: Solid
Percent Solids: 73.6

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	27	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Acenaphthylene	**38**	**J F**	53	6.6	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Anthracene	**54**	**F**	11	5.6	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Benzo[a]anthracene	**270**	**F**	11	5.2	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Benzo[a]pyrene	**240**	**F**	14	6.9	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Benzo[b]fluoranthene	**480**	**F**	16	8.1	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Benzo[g,h,i]perylene	**180**	**F**	27	5.8	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Benzo[k]fluoranthene	**170**	**F**	11	4.8	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Chrysene	**410**	**F**	12	6.0	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Dibenz(a,h)anthracene	**49**		27	5.4	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Fluoranthene	**460**	**F**	27	5.3	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Fluorene	**19**	**J**	27	5.4	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Indeno[1,2,3-cd]pyrene	**140**	**F**	27	9.4	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
1-Methylnaphthalene	**95**		53	5.8	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
2-Methylnaphthalene	**110**		53	9.4	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Naphthalene	**110**		53	5.8	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Phenanthrene	**310**	**F**	11	5.2	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Pyrene	**420**	**F**	27	4.9	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*06/03/13 10:11*	*06/04/13 20:22*	*1*

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

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1015B-CS

Lab Sample ID: 680-90723-25

Date Collected: 05/23/13 13:57
Date Received: 05/25/13 09:45

Matrix: Solid
Percent Solids: 71.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Acenaphthylene	92		55	6.9	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Anthracene	62		12	5.8	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Benzo[a]anthracene	360		11	5.4	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Benzo[a]pyrene	370		14	7.2	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Benzo[b]fluoranthene	750		17	8.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Benzo[g,h,i]perylene	370		28	6.1	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Benzo[k]fluoranthene	300		11	5.0	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Chrysene	500		12	6.2	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Dibenz(a,h)anthracene	110		28	5.7	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Fluoranthene	560		28	5.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Fluorene	23	J	28	5.7	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Indeno[1,2,3-cd]pyrene	310		28	9.8	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
1-Methylnaphthalene	96		55	6.1	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
2-Methylnaphthalene	100		55	9.8	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Naphthalene	98		55	6.1	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Phenanthrene	270		11	5.4	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Pyrene	480		28	5.1	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*06/03/13 10:11*	*06/05/13 12:20*	*1*

Client Sample ID: CV1111A-CS

Lab Sample ID: 680-90723-26

Date Collected: 05/23/13 12:46
Date Received: 05/25/13 09:45

Matrix: Solid
Percent Solids: 82.8

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	☼	06/03/13 10:11	06/05/13 12:39	1
Acenaphthylene	13	J	48	6.0	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Anthracene	13		10	5.0	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Benzo[a]anthracene	77		9.6	4.7	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Benzo[a]pyrene	73		12	6.2	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Benzo[b]fluoranthene	140		15	7.3	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Benzo[g,h,i]perylene	71		24	5.3	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Benzo[k]fluoranthene	48		9.6	4.3	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Chrysene	150		11	5.4	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Dibenz(a,h)anthracene	22	J	24	4.9	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Fluoranthene	110		24	4.8	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Fluorene	8.6	J	24	4.9	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Indeno[1,2,3-cd]pyrene	49		24	8.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
1-Methylnaphthalene	89		48	5.3	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
2-Methylnaphthalene	140		48	8.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Naphthalene	60		48	5.3	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Phenanthrene	120		9.6	4.7	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Pyrene	99		24	4.4	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*41*		*30 - 130*	*06/03/13 10:11*	*06/05/13 12:39*	*1*

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

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV0315A-CS

Lab Sample ID: 680-90723-27
Date Collected: 05/23/13 14:45
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Acenaphthylene	27	J	50	6.2	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Anthracene	34		10	5.2	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Benzo[a]anthracene	240		9.9	4.8	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Benzo[a]pyrene	270		13	6.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Benzo[b]fluoranthene	470		15	7.6	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Benzo[g,h,i]perylene	270		25	5.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Benzo[k]fluoranthene	180		9.9	4.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Chrysene	360		11	5.6	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Dibenz(a,h)anthracene	67		25	5.1	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Fluoranthene	360		25	5.0	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Fluorene	21	J	25	5.1	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Indeno[1,2,3-cd]pyrene	160		25	8.8	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
1-Methylnaphthalene	120		50	5.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
2-Methylnaphthalene	160		50	8.8	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Naphthalene	110		50	5.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Phenanthrene	270		9.9	4.8	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Pyrene	330		25	4.6	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*06/03/13 10:11*	*06/05/13 12:57*	*1*

Client Sample ID: CV0315B-CS

Lab Sample ID: 680-90723-28
Date Collected: 05/23/13 14:55
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 82.9

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	☼	06/03/13 10:11	06/05/13 13:16	1
Acenaphthylene	11	J	49	6.1	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Anthracene	20		10	5.1	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Benzo[a]anthracene	140		9.7	4.7	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Benzo[a]pyrene	170		13	6.3	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Benzo[b]fluoranthene	330		15	7.4	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Benzo[g,h,i]perylene	180		24	5.3	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Benzo[k]fluoranthene	79		9.7	4.4	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Chrysene	240		11	5.5	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Dibenz(a,h)anthracene	47		24	5.0	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Fluoranthene	190		24	4.9	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Fluorene	11	J	24	5.0	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Indeno[1,2,3-cd]pyrene	140		24	8.6	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
1-Methylnaphthalene	88		49	5.3	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
2-Methylnaphthalene	150		49	8.6	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Naphthalene	93		49	5.3	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Phenanthrene	170		9.7	4.7	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Pyrene	190		24	4.5	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*06/03/13 10:11*	*06/05/13 13:16*	*1*

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

Client Sample ID: CV1164A-CS

Lab Sample ID: 680-90723-29

Date Collected: 05/23/13 13:35
Date Received: 05/25/13 09:45

Matrix: Solid
Percent Solids: 81.8

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	☼	06/03/13 10:11	06/05/13 13:34	4
Acenaphthylene	42	J	190	24	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Anthracene	46		41	20	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Benzo[a]anthracene	170		39	19	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Benzo[a]pyrene	190		50	25	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Benzo[b]fluoranthene	320		59	30	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Benzo[g,h,i]perylene	180		97	21	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Benzo[k]fluoranthene	70		39	17	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Chrysene	270		44	22	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Dibenz(a,h)anthracene	62	J	97	20	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Fluoranthene	310		97	19	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Fluorene	97	U	97	20	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Indeno[1,2,3-cd]pyrene	140		97	34	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
1-Methylnaphthalene	110	J	190	21	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
2-Methylnaphthalene	100	J	190	34	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Naphthalene	98	J	190	21	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Phenanthrene	220		39	19	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Pyrene	280		97	18	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*30 - 130*	*06/03/13 10:11*	*06/05/13 13:34*	*4*

Client Sample ID: CV1164B-CS

Lab Sample ID: 680-90723-30

Date Collected: 05/23/13 13:45
Date Received: 05/25/13 09:45

Matrix: Solid
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	460	U	460	93	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Acenaphthylene	23	J	190	23	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Anthracene	45		39	19	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Benzo[a]anthracene	240		37	18	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Benzo[a]pyrene	200		48	24	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Benzo[b]fluoranthene	370		57	28	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Benzo[g,h,i]perylene	180		93	20	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Benzo[k]fluoranthene	130		37	17	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Chrysene	260		42	21	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Dibenz(a,h)anthracene	51	J	93	19	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Fluoranthene	340		93	19	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Fluorene	21	J	93	19	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Indeno[1,2,3-cd]pyrene	180		93	33	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
1-Methylnaphthalene	78	J	190	20	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
2-Methylnaphthalene	67	J	190	33	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Naphthalene	78	J	190	20	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Phenanthrene	230		37	18	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Pyrene	280		93	17	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*30 - 130*	*06/03/13 10:11*	*06/05/13 13:52*	*4*

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

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1164C-CS

Lab Sample ID: 680-90723-31

Date Collected: 05/23/13 13:55
Date Received: 05/25/13 09:45

Matrix: Solid
Percent Solids: 83.0

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	96	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Acenaphthylene	43	J	190	24	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Anthracene	70		40	20	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Benzo[a]anthracene	430		38	19	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Benzo[a]pyrene	670		50	25	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Benzo[b]fluoranthene	1100		59	29	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Benzo[g,h,i]perylene	800		96	21	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Benzo[k]fluoranthene	300		38	17	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Chrysene	590		43	22	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Dibenz(a,h)anthracene	230		96	20	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Fluoranthene	490		96	19	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Fluorene	56	J	96	20	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Indeno[1,2,3-cd]pyrene	630		96	34	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
1-Methylnaphthalene	210		190	21	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
2-Methylnaphthalene	260		190	34	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Naphthalene	140	J	190	21	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Phenanthrene	400		38	19	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Pyrene	460		96	18	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*06/03/13 10:11*	*06/05/13 14:11*	*4*

Client Sample ID: CV1301A-CS

Lab Sample ID: 680-90723-32

Date Collected: 05/23/13 13:00
Date Received: 05/25/13 09:45

Matrix: Solid
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Acenaphthylene	28	J	46	5.7	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Anthracene	33		9.6	4.8	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Benzo[a]anthracene	140		9.1	4.5	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Benzo[a]pyrene	130		12	5.9	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Benzo[b]fluoranthene	210		14	7.0	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Benzo[g,h,i]perylene	83		23	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Benzo[k]fluoranthene	68		9.1	4.1	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Chrysene	150		10	5.1	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Dibenz(a,h)anthracene	34		23	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Fluoranthene	310		23	4.6	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Fluorene	25		23	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Indeno[1,2,3-cd]pyrene	76		23	8.1	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
1-Methylnaphthalene	34	J	46	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
2-Methylnaphthalene	38	J	46	8.1	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Naphthalene	25	J	46	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Phenanthrene	260		9.1	4.5	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Pyrene	240		23	4.2	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*06/03/13 13:04*	*06/05/13 20:44*	*1*

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

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1301B-CS

Lab Sample ID: 680-90723-33

Date Collected: 05/23/13 13:10
Date Received: 05/25/13 09:45

Matrix: Solid
Percent Solids: 82.3

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	97	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Acenaphthylene	49	J	190	24	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Anthracene	46		41	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Benzo[a]anthracene	210		39	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Benzo[a]pyrene	190		50	25	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Benzo[b]fluoranthene	330		59	30	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Benzo[g,h,i]perylene	170		97	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Benzo[k]fluoranthene	75		39	17	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Chrysene	250		44	22	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Dibenz(a,h)anthracene	61	J	97	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Fluoranthene	260		97	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Fluorene	34	J	97	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Indeno[1,2,3-cd]pyrene	140		97	34	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
1-Methylnaphthalene	340		190	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
2-Methylnaphthalene	340		190	34	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Naphthalene	180	J	190	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Phenanthrene	360		39	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Pyrene	260		97	18	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*30 - 130*	*06/03/13 13:04*	*06/05/13 21:02*	*4*

Client Sample ID: CV1242A-CS

Lab Sample ID: 680-90723-34

Date Collected: 05/24/13 08:35
Date Received: 05/25/13 09:45

Matrix: Solid
Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	99	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Acenaphthylene	53	J	200	25	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Anthracene	130		42	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Benzo[a]anthracene	610		40	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Benzo[a]pyrene	480		52	26	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Benzo[b]fluoranthene	790		61	30	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Benzo[g,h,i]perylene	340		99	22	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Benzo[k]fluoranthene	230		40	18	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Chrysene	580		45	22	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Dibenz(a,h)anthracene	100		99	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Fluoranthene	1200		99	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Fluorene	39	J	99	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Indeno[1,2,3-cd]pyrene	290		99	35	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
1-Methylnaphthalene	290		200	22	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
2-Methylnaphthalene	430		200	35	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Naphthalene	220		200	22	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Phenanthrene	710		40	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Pyrene	840		99	18	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*30 - 130*	*06/03/13 13:04*	*06/05/13 21:20*	*4*

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

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1242A-CSD

Lab Sample ID: 680-90723-35
Date Collected: 05/24/13 08:35
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Acenaphthylene	55	J	200	26	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Anthracene	55		43	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Benzo[a]anthracene	380		41	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Benzo[a]pyrene	360		53	27	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Benzo[b]fluoranthene	590		62	31	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Benzo[g,h,i]perylene	270		100	23	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Benzo[k]fluoranthene	180		41	18	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Chrysene	420		46	23	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Dibenz(a,h)anthracene	75	J	100	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Fluoranthene	690		100	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Fluorene	28	J	100	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Indeno[1,2,3-cd]pyrene	240		100	36	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
1-Methylnaphthalene	340		200	23	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
2-Methylnaphthalene	240		200	36	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Naphthalene	110	J	200	23	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Phenanthrene	440		41	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Pyrene	550		100	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*30 - 130*	*06/03/13 13:04*	*06/05/13 21:39*	*4*

Client Sample ID: CV1242B-CS

Lab Sample ID: 680-90723-36
Date Collected: 05/24/13 08:43
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	93	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Acenaphthylene	34	J	190	23	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Anthracene	51		39	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Benzo[a]anthracene	200		37	18	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Benzo[a]pyrene	170		48	24	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Benzo[b]fluoranthene	270		57	28	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Benzo[g,h,i]perylene	180		93	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Benzo[k]fluoranthene	61		37	17	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Chrysene	240		42	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Dibenz(a,h)anthracene	55	J	93	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Fluoranthene	280		93	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Fluorene	21	J	93	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Indeno[1,2,3-cd]pyrene	120		93	33	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
1-Methylnaphthalene	600		190	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
2-Methylnaphthalene	850		190	33	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Naphthalene	440		190	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Phenanthrene	460		37	18	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Pyrene	250		93	17	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*30 - 130*	*06/03/13 13:04*	*06/05/13 21:57*	*4*

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

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1242C-CS

Lab Sample ID: 680-90723-37

Date Collected: 05/24/13 08:53
Date Received: 05/25/13 09:45

Matrix: Solid
Percent Solids: 83.0

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	96	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Acenaphthylene	190	U	190	24	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Anthracene	**20**	**J**	40	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Benzo[a]anthracene	**140**		38	19	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Benzo[a]pyrene	**160**		50	25	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Benzo[b]fluoranthene	**280**		59	29	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Benzo[g,h,i]perylene	**120**		96	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Benzo[k]fluoranthene	**73**		38	17	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Chrysene	**210**		43	22	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Dibenz(a,h)anthracene	**46**	**J**	96	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Fluoranthene	**250**		96	19	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Fluorene	**24**	**J**	96	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Indeno[1,2,3-cd]pyrene	**110**		96	34	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
1-Methylnaphthalene	**89**	**J**	190	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
2-Methylnaphthalene	**63**	**J**	190	34	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Naphthalene	**54**	**J**	190	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Phenanthrene	**180**		38	19	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Pyrene	**220**		96	18	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*105*		*30 - 130*	*06/03/13 13:04*	*06/05/13 22:16*	*4*

Client Sample ID: HP0331A-CS-SP

Lab Sample ID: 680-90723-38

Date Collected: 05/24/13 08:25
Date Received: 05/25/13 09:45

Matrix: Solid
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Acenaphthylene	**45**	**J**	200	26	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Anthracene	**62**		43	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Benzo[a]anthracene	**310**		41	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Benzo[a]pyrene	**360**		53	27	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Benzo[b]fluoranthene	**550**		62	31	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Benzo[g,h,i]perylene	**400**		100	22	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Benzo[k]fluoranthene	**150**		41	18	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Chrysene	**390**		46	23	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Dibenz(a,h)anthracene	**100**		100	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Fluoranthene	**430**		100	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Fluorene	**32**	**J**	100	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Indeno[1,2,3-cd]pyrene	**240**		100	36	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
1-Methylnaphthalene	**210**		200	22	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
2-Methylnaphthalene	**270**		200	36	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Naphthalene	**160**	**J**	200	22	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Phenanthrene	**370**		41	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Pyrene	**380**		100	19	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*30 - 130*	*06/03/13 13:04*	*06/05/13 22:34*	*4*

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

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: HP0332A-CS-SP

Lab Sample ID: 680-90723-39
Date Collected: 05/24/13 08:37
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Acenaphthylene	41	J	200	26	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Anthracene	130		43	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Benzo[a]anthracene	1300		41	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Benzo[a]pyrene	1200		53	27	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Benzo[b]fluoranthene	2100		62	31	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Benzo[g,h,i]perylene	760		100	23	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Benzo[k]fluoranthene	730		41	18	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Chrysene	1300		46	23	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Dibenz(a,h)anthracene	310		100	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Fluoranthene	2000		100	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Fluorene	50	J	100	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Indeno[1,2,3-cd]pyrene	750		100	36	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
1-Methylnaphthalene	160	J	200	23	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
2-Methylnaphthalene	220		200	36	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Naphthalene	190	J	200	23	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Phenanthrene	540		41	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Pyrene	1800		100	19	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*06/03/13 13:04*	*06/05/13 22:52*	*4*

Client Sample ID: HP0332B-CS-SP

Lab Sample ID: 680-90723-40
Date Collected: 05/24/13 08:40
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 70.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	560	U	560	110	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Acenaphthylene	300		220	28	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Anthracene	180		47	23	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Benzo[a]anthracene	720		45	22	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Benzo[a]pyrene	750		58	29	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Benzo[b]fluoranthene	1300		68	34	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Benzo[g,h,i]perylene	530		110	25	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Benzo[k]fluoranthene	430		45	20	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Chrysene	880		50	25	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Dibenz(a,h)anthracene	210		110	23	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Fluoranthene	1200		110	22	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Fluorene	52	J	110	23	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Indeno[1,2,3-cd]pyrene	520		110	40	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
1-Methylnaphthalene	180	J	220	25	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
2-Methylnaphthalene	230		220	40	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Naphthalene	300		220	25	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Phenanthrene	550		45	22	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Pyrene	840		110	21	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*06/03/13 13:04*	*06/06/13 14:50*	*4*

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

ANALYTICAL REPORT

Job Number: 680-90723-2

SDG Number: 68090723-2

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
6/7/2013 4:57 PM

Designee for
Lisa Harvey, Project Manager II
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3221
lisa.harvey@testamericainc.com
06/07/2013

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

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

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90723-2

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 05/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1014A-CS (680-90723-21), CV1014A-CSD (680-90723-22), CV1014B-CS (680-90723-23), CV1015A-CS (680-90723-24), CV1015B-CS (680-90723-25), CV1111A-CS (680-90723-26), CV0315A-CS (680-90723-27), CV0315B-CS (680-90723-28), CV1164A-CS (680-90723-29), CV1164B-CS (680-90723-30), CV1164C-CS (680-90723-31), CV1301A-CS (680-90723-32), CV1301B-CS (680-90723-33), CV1242A-CS (680-90723-34), CV1242A-CSD (680-90723-35), CV1242B-CS (680-90723-36), CV1242C-CS (680-90723-37), HP0331A-CS-SP (680-90723-38), HP0332A-CS-SP (680-90723-39) and HP0332B-CS-SP (680-90723-40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/03/2013 and analyzed on 06/04/2013, 06/05/2013 and 06/06/2013.

Samples CV1014B-CS (680-90723-23)[4X], CV1164A-CS (680-90723-29)[4X], CV1164B-CS (680-90723-30)[4X], CV1164C-CS (680-90723-31)[4X], CV1301B-CS (680-90723-33)[4X], CV1242A-CS (680-90723-34)[4X], CV1242A-CSD (680-90723-35)[4X], CV1242B-CS (680-90723-36)[4X], CV1242C-CS (680-90723-37)[4X], HP0331A-CS-SP (680-90723-38)[4X], HP0332A-CS-SP (680-90723-39)[4X] and HP0332B-CS-SP (680-90723-40)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1015A-CS (680-90723-24) in batch 660-138098.

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample 680-90852-9 in batch 660-138101.

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: 680-90723-2
Sdg Number: 68090723-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-90723-21	CV1014A-CS	Solid	05/23/2013 1323	05/25/2013 0945
680-90723-22	CV1014A-CSD	Solid	05/23/2013 1323	05/25/2013 0945
680-90723-23	CV1014B-CS	Solid	05/23/2013 1334	05/25/2013 0945
680-90723-24	CV1015A-CS	Solid	05/23/2013 1345	05/25/2013 0945
680-90723-24MS	CV1015A-CS	Solid	05/23/2013 1345	05/25/2013 0945
680-90723-24MSD	CV1015A-CS	Solid	05/23/2013 1345	05/25/2013 0945
680-90723-25	CV1015B-CS	Solid	05/23/2013 1357	05/25/2013 0945
680-90723-26	CV1111A-CS	Solid	05/23/2013 1246	05/25/2013 0945
680-90723-27	CV0315A-CS	Solid	05/23/2013 1445	05/25/2013 0945
680-90723-28	CV0315B-CS	Solid	05/23/2013 1455	05/25/2013 0945
680-90723-29	CV1164A-CS	Solid	05/23/2013 1335	05/25/2013 0945
680-90723-30	CV1164B-CS	Solid	05/23/2013 1345	05/25/2013 0945
680-90723-31	CV1164C-CS	Solid	05/23/2013 1355	05/25/2013 0945
680-90723-32	CV1301A-CS	Solid	05/23/2013 1300	05/25/2013 0945
680-90723-33	CV1301B-CS	Solid	05/23/2013 1310	05/25/2013 0945
680-90723-34	CV1242A-CS	Solid	05/24/2013 0835	05/25/2013 0945
680-90723-35	CV1242A-CSD	Solid	05/24/2013 0835	05/25/2013 0945
680-90723-36	CV1242B-CS	Solid	05/24/2013 0843	05/25/2013 0945
680-90723-37	CV1242C-CS	Solid	05/24/2013 0853	05/25/2013 0945
680-90723-38	HP0331A-CS-SP	Solid	05/24/2013 0825	05/25/2013 0945
680-90723-39	HP0332A-CS-SP	Solid	05/24/2013 0837	05/25/2013 0945
680-90723-40	HP0332B-CS-SP	Solid	05/24/2013 0840	05/25/2013 0945

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90723-2
Sdg Number: 68090723-2

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: 680-90723-2
Sdg Number: 68090723-2

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: 680-90723-2
Sdg Number: 68090723-2

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

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90723-2
Sdg Number: 68090723-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-137991					
LCS 660-137991/2-A	Lab Control Sample	T	Solid	3546	
MB 660-137991/1-A	Method Blank	T	Solid	3546	
680-90723-21	CV1014A-CS	T	Solid	3546	
680-90723-22	CV1014A-CSD	T	Solid	3546	
680-90723-23	CV1014B-CS	T	Solid	3546	
680-90723-24	CV1015A-CS	T	Solid	3546	
680-90723-24MS	Matrix Spike	T	Solid	3546	
680-90723-24MSD	Matrix Spike Duplicate	T	Solid	3546	
680-90723-25	CV1015B-CS	T	Solid	3546	
680-90723-26	CV1111A-CS	T	Solid	3546	
680-90723-27	CV0315A-CS	T	Solid	3546	
680-90723-28	CV0315B-CS	T	Solid	3546	
680-90723-29	CV1164A-CS	T	Solid	3546	
680-90723-30	CV1164B-CS	T	Solid	3546	
680-90723-31	CV1164C-CS	T	Solid	3546	
Prep Batch: 660-137999					
LCS 660-137999/2-A	Lab Control Sample	T	Solid	3546	
MB 660-137999/1-A	Method Blank	T	Solid	3546	
680-90723-32	CV1301A-CS	T	Solid	3546	
680-90723-33	CV1301B-CS	T	Solid	3546	
680-90723-34	CV1242A-CS	T	Solid	3546	
680-90723-35	CV1242A-CSD	T	Solid	3546	
680-90723-36	CV1242B-CS	T	Solid	3546	
680-90723-37	CV1242C-CS	T	Solid	3546	
680-90723-38	HP0331A-CS-SP	T	Solid	3546	
680-90723-39	HP0332A-CS-SP	T	Solid	3546	
680-90723-40	HP0332B-CS-SP	T	Solid	3546	
680-90852-A-9-B MS	Matrix Spike	T	Solid	3546	
680-90852-A-9-C MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-138098					
LCS 660-137991/2-A	Lab Control Sample	T	Solid	8270C LL	660-137991
MB 660-137991/1-A	Method Blank	T	Solid	8270C LL	660-137991
680-90723-21	CV1014A-CS	T	Solid	8270C LL	660-137991
680-90723-22	CV1014A-CSD	T	Solid	8270C LL	660-137991
680-90723-24	CV1015A-CS	T	Solid	8270C LL	660-137991
680-90723-24MS	Matrix Spike	T	Solid	8270C LL	660-137991
680-90723-24MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-137991

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90723-2
Sdg Number: 68090723-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-138101					
LCS 660-137999/2-A	Lab Control Sample	T	Solid	8270C LL	660-137999
MB 660-137999/1-A	Method Blank	T	Solid	8270C LL	660-137999
680-90723-23	CV1014B-CS	T	Solid	8270C LL	660-137991
680-90723-25	CV1015B-CS	T	Solid	8270C LL	660-137991
680-90723-26	CV1111A-CS	T	Solid	8270C LL	660-137991
680-90723-27	CV0315A-CS	T	Solid	8270C LL	660-137991
680-90723-28	CV0315B-CS	T	Solid	8270C LL	660-137991
680-90723-29	CV1164A-CS	T	Solid	8270C LL	660-137991
680-90723-30	CV1164B-CS	T	Solid	8270C LL	660-137991
680-90723-31	CV1164C-CS	T	Solid	8270C LL	660-137991
680-90723-32	CV1301A-CS	T	Solid	8270C LL	660-137999
680-90723-33	CV1301B-CS	T	Solid	8270C LL	660-137999
680-90723-34	CV1242A-CS	T	Solid	8270C LL	660-137999
680-90723-35	CV1242A-CSD	T	Solid	8270C LL	660-137999
680-90723-36	CV1242B-CS	T	Solid	8270C LL	660-137999
680-90723-37	CV1242C-CS	T	Solid	8270C LL	660-137999
680-90723-38	HP0331A-CS-SP	T	Solid	8270C LL	660-137999
680-90723-39	HP0332A-CS-SP	T	Solid	8270C LL	660-137999
680-90852-A-9-B MS	Matrix Spike	T	Solid	8270C LL	660-137999
680-90852-A-9-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-137999
Analysis Batch:660-138163					
680-90723-40	HP0332B-CS-SP	T	Solid	8270C LL	660-137999

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90723-2
Sdg Number: 68090723-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-137846					
680-90723-A-1 MS	Matrix Spike	T	Solid	Moisture	
680-90723-A-1 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-90723-21	CV1014A-CS	T	Solid	Moisture	
680-90723-22	CV1014A-CSD	T	Solid	Moisture	
680-90723-23	CV1014B-CS	T	Solid	Moisture	
680-90723-24	CV1015A-CS	T	Solid	Moisture	
680-90723-24MS	Matrix Spike	T	Solid	Moisture	
680-90723-24MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-90723-25	CV1015B-CS	T	Solid	Moisture	
680-90723-26	CV1111A-CS	T	Solid	Moisture	
680-90723-27	CV0315A-CS	T	Solid	Moisture	
680-90723-28	CV0315B-CS	T	Solid	Moisture	
680-90723-29	CV1164A-CS	T	Solid	Moisture	
680-90723-30	CV1164B-CS	T	Solid	Moisture	
680-90723-31	CV1164C-CS	T	Solid	Moisture	
680-90723-32	CV1301A-CS	T	Solid	Moisture	
680-90723-33	CV1301B-CS	T	Solid	Moisture	
680-90723-34	CV1242A-CS	T	Solid	Moisture	
680-90723-35	CV1242A-CSD	T	Solid	Moisture	
680-90723-36	CV1242B-CS	T	Solid	Moisture	
680-90723-37	CV1242C-CS	T	Solid	Moisture	
Analysis Batch:660-137856					
LCS 660-137856/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-137856/17	Lab Control Sample Duplicate	T	Solid	Moisture	
680-90723-38	HP0331A-CS-SP	T	Solid	Moisture	
680-90723-39	HP0332A-CS-SP	T	Solid	Moisture	
680-90723-40	HP0332B-CS-SP	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Instrument ID: BSMC5973 Analysis Batch Number: 137704

Lab Sample ID: IC 660-137704/15 Client Sample ID:

Date Analyzed: 05/22/13 16:16 Lab File ID: 1CE22014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.80	Split Peak	cantins	05/23/13 09:51
Dibenz(a,h)anthracene	10.82	Baseline Event	cantins	05/23/13 09:49
Benzo[g,h,i]perylene	11.22	Baseline Event	cantins	05/23/13 09:49

Lab Sample ID: IC 660-137704/16 Client Sample ID:

Date Analyzed: 05/22/13 16:34 Lab File ID: 1CE22015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.80	Split Peak	cantins	05/23/13 10:06
Dibenz(a,h)anthracene	10.83	Baseline Event	cantins	05/23/13 10:05

Lab Sample ID: IC 660-137704/17 Client Sample ID:

Date Analyzed: 05/22/13 16:52 Lab File ID: 1CE22016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.80	Split Peak	cantins	05/23/13 10:06

Lab Sample ID: IC 660-137704/18 Client Sample ID:

Date Analyzed: 05/22/13 17:10 Lab File ID: 1CE22017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.80	Split Peak	cantins	05/23/13 10:07

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Instrument ID: BSMC5973 Analysis Batch Number: 137704

Lab Sample ID: ICIS 660-137704/19 Client Sample ID:

Date Analyzed: 05/22/13 17:29 Lab File ID: 1CE22018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.81	Split Peak	cantins	05/22/13 18:03

Lab Sample ID: IC 660-137704/20 Client Sample ID:

Date Analyzed: 05/22/13 17:47 Lab File ID: 1CE22019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.81	Split Peak	cantins	05/23/13 10:07

Lab Sample ID: IC 660-137704/21 Client Sample ID:

Date Analyzed: 05/22/13 18:05 Lab File ID: 1CE22020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.82	Split Peak	cantins	05/23/13 10:09

Lab Sample ID: ICV 660-137704/22 Client Sample ID:

Date Analyzed: 05/22/13 18:24 Lab File ID: 1CE22021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.81	Split Peak	cantins	05/23/13 10:17

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Instrument ID: BSMC5973 Analysis Batch Number: 138098

Lab Sample ID: CCVIS 660-138098/3 Client Sample ID:

Date Analyzed: 06/04/13 10:50 Lab File ID: 1CF04003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/04/13 11:09

Lab Sample ID: LCS 660-137991/2-A Client Sample ID:

Date Analyzed: 06/04/13 16:24 Lab File ID: 1CF04021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 13:37
Dibenz(a,h)anthracene	10.81	Baseline Event	cantins	06/05/13 13:37
Benzo[g,h,i]perylene	11.20	Baseline Event	cantins	06/05/13 13:37

Lab Sample ID: 680-90723-21 Client Sample ID: CV1014A-CS

Date Analyzed: 06/04/13 19:27 Lab File ID: 1CF04031.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	9.00	Split Peak	cantins	06/05/13 15:11
Benzo[k]fluoranthene	9.02	Baseline Event	cantins	06/05/13 15:11
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 15:11
Benzo[g,h,i]perylene	11.22	Baseline Event	cantins	06/05/13 15:11

Lab Sample ID: 680-90723-22 Client Sample ID: CV1014A-CSD

Date Analyzed: 06/04/13 19:46 Lab File ID: 1CF04032.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	9.00	Split Peak	cantins	06/05/13 15:12
Benzo[k]fluoranthene	9.02	Baseline Event	cantins	06/05/13 15:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Instrument ID: BSMC5973 Analysis Batch Number: 138098

Lab Sample ID: 680-90723-24 Client Sample ID: CV1015A-CS

Date Analyzed: 06/04/13 20:22 Lab File ID: 1CF04034.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	9.00	Split Peak	cantins	06/05/13 15:51
Benzo[k]fluoranthene	9.02	Baseline Event	cantins	06/05/13 15:51
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 15:52
Benzo[g,h,i]perylene	11.20	Baseline Event	cantins	06/05/13 15:52

Lab Sample ID: 680-90723-24 MS Client Sample ID: CV1015A-CS MS

Date Analyzed: 06/04/13 20:41 Lab File ID: 1CF04035.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 15:52

Lab Sample ID: 680-90723-24 MSD Client Sample ID: CV1015A-CS MSD

Date Analyzed: 06/04/13 20:59 Lab File ID: 1CF04036.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 15:53

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Instrument ID: BSMC5973 Analysis Batch Number: 138101

Lab Sample ID: CCVIS 660-138101/3 Client Sample ID:

Date Analyzed: 06/05/13 11:24 Lab File ID: 1CF05003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.77	Split Peak	cantins	06/05/13 11:40

Lab Sample ID: 680-90723-25 Client Sample ID: CV1015B-CS

Date Analyzed: 06/05/13 12:20 Lab File ID: 1CF05006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.98	Split Peak	cantins	06/05/13 12:45
Benzo[k]fluoranthene	9.00	Baseline Event	cantins	06/05/13 12:46
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/05/13 12:46

Lab Sample ID: 680-90723-26 Client Sample ID: CV1111A-CS

Date Analyzed: 06/05/13 12:39 Lab File ID: 1CF05007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.98	Split Peak	cantins	06/05/13 15:55
Benzo[k]fluoranthene	9.00	Baseline Event	cantins	06/05/13 15:56
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/05/13 15:56

Lab Sample ID: 680-90723-27 Client Sample ID: CV0315A-CS

Date Analyzed: 06/05/13 12:57 Lab File ID: 1CF05008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.99	Split Peak	cantins	06/05/13 15:56
Benzo[k]fluoranthene	9.00	Baseline Event	cantins	06/05/13 15:57
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/05/13 15:57

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Instrument ID: BSMC5973 Analysis Batch Number: 138101

Lab Sample ID: 680-90723-28 Client Sample ID: CV0315B-CS

Date Analyzed: 06/05/13 13:16 Lab File ID: 1CF05009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.99	Split Peak	cantins	06/05/13 15:57
Benzo[k]fluoranthene	9.00	Baseline Event	cantins	06/05/13 15:58
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/05/13 15:58

Lab Sample ID: 680-90723-29 Client Sample ID: CV1164A-CS

Date Analyzed: 06/05/13 13:34 Lab File ID: 1CF05010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/05/13 15:59
Dibenz(a,h)anthracene	10.77	Baseline Event	cantins	06/05/13 15:58
Benzo[g,h,i]perylene	11.17	Baseline Event	cantins	06/05/13 15:59

Lab Sample ID: 680-90723-30 Client Sample ID: CV1164B-CS

Date Analyzed: 06/05/13 13:52 Lab File ID: 1CF05011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.98	Split Peak	cantins	06/05/13 15:59
Benzo[k]fluoranthene	9.00	Baseline Event	cantins	06/05/13 15:59
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/05/13 16:00
Dibenz(a,h)anthracene	10.79	Baseline Event	cantins	06/05/13 16:00

Lab Sample ID: 680-90723-31 Client Sample ID: CV1164C-CS

Date Analyzed: 06/05/13 14:11 Lab File ID: 1CF05012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	9.00	Baseline Event	cantins	06/05/13 16:00
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/05/13 16:01

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Instrument ID: BSMC5973 Analysis Batch Number: 138101

Lab Sample ID: 680-90723-23 Client Sample ID: CV1014B-CS

Date Analyzed: 06/05/13 14:41 Lab File ID: 1CF05013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[g,h,i]perylene	11.19	Baseline Event	cantins	06/05/13 16:02

Lab Sample ID: LCS 660-137999/2-A Client Sample ID:

Date Analyzed: 06/05/13 19:30 Lab File ID: 1CF05026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/06/13 13:42

Lab Sample ID: 680-90852-A-9-B MS Client Sample ID:

Date Analyzed: 06/05/13 20:07 Lab File ID: 1CF05028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.77	Split Peak	cantins	06/06/13 13:45

Lab Sample ID: 680-90852-A-9-C MSD Client Sample ID:

Date Analyzed: 06/05/13 20:25 Lab File ID: 1CF05029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.77	Split Peak	cantins	06/06/13 13:45

Lab Sample ID: 680-90723-32 Client Sample ID: CV1301A-CS

Date Analyzed: 06/05/13 20:44 Lab File ID: 1CF05030.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.77	Split Peak	cantins	06/06/13 13:46
Dibenz(a,h)anthracene	10.78	Baseline Event	cantins	06/06/13 13:46

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Instrument ID: BSMC5973 Analysis Batch Number: 138101

Lab Sample ID: 680-90723-33 Client Sample ID: CV1301B-CS

Date Analyzed: 06/05/13 21:02 Lab File ID: 1CF05031.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.77	Split Peak	cantins	06/06/13 13:47

Lab Sample ID: 680-90723-34 Client Sample ID: CV1242A-CS

Date Analyzed: 06/05/13 21:20 Lab File ID: 1CF05032.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/06/13 13:34
Benzo[g,h,i]perylene	11.19	Baseline Event	cantins	06/06/13 13:34

Lab Sample ID: 680-90723-35 Client Sample ID: CV1242A-CSD

Date Analyzed: 06/05/13 21:39 Lab File ID: 1CF05033.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/06/13 13:36
Dibenz(a,h)anthracene	10.79	Baseline Event	cantins	06/06/13 13:36

Lab Sample ID: 680-90723-36 Client Sample ID: CV1242B-CS

Date Analyzed: 06/05/13 21:57 Lab File ID: 1CF05034.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.99	Split Peak	cantins	06/06/13 13:36
Benzo[k]fluoranthene	9.00	Baseline Event	cantins	06/06/13 13:37
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/06/13 13:37
Dibenz(a,h)anthracene	10.77	Baseline Event	cantins	06/06/13 13:37

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Instrument ID: BSMC5973 Analysis Batch Number: 138101

Lab Sample ID: 680-90723-37 Client Sample ID: CV1242C-CS

Date Analyzed: 06/05/13 22:16 Lab File ID: 1CF05035.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.99	Split Peak	cantins	06/06/13 13:38
Benzo[k]fluoranthene	9.00	Baseline Event	cantins	06/06/13 13:38
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/06/13 13:38

Lab Sample ID: 680-90723-38 Client Sample ID: HP0331A-CS-SP

Date Analyzed: 06/05/13 22:34 Lab File ID: 1CF05036.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.99	Split Peak	cantins	06/06/13 13:39
Benzo[k]fluoranthene	9.01	Baseline Event	cantins	06/06/13 13:39
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/06/13 13:39

Lab Sample ID: 680-90723-39 Client Sample ID: HP0332A-CS-SP

Date Analyzed: 06/05/13 22:52 Lab File ID: 1CF05037.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/06/13 13:40

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

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.: 680-90723-2

SDG No.: 68090723-2

Instrument ID: BSMD5973 Analysis Batch Number: 138163

Lab Sample ID: 680-90723-40 Client Sample ID: HP0332B-CS-SP

Date Analyzed: 06/06/13 14:50 Lab File ID: 1DF06009.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	06/06/13 15:10

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.: 680-90723-2

SDG No.: 68090723-2

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV1014A-CS	680-90723-21	72
CV1014A-CSD	680-90723-22	47
CV1014B-CS	680-90723-23	52
CV1015A-CS	680-90723-24	46
CV1015B-CS	680-90723-25	55
CV1111A-CS	680-90723-26	41
CV0315A-CS	680-90723-27	60
CV0315B-CS	680-90723-28	47
CV1164A-CS	680-90723-29	77
CV1164B-CS	680-90723-30	83
CV1164C-CS	680-90723-31	75
CV1301A-CS	680-90723-32	58
CV1301B-CS	680-90723-33	93
CV1242A-CS	680-90723-34	89
CV1242A-CSD	680-90723-35	79
CV1242B-CS	680-90723-36	86
CV1242C-CS	680-90723-37	105
HP0331A-CS-SP	680-90723-38	97
HP0332A-CS-SP	680-90723-39	72
HP0332B-CS-SP	680-90723-40	70
	MB 660-137991/1-A	86
	MB 660-137999/1-A	88
	LCS 660-137991/2-A	86
	LCS 660-137999/2-A	86
	680-90852-A-9-B MS	52
CV1015A-CS MS	680-90723-24 MS	37
	680-90852-A-9-C MSD	58
CV1015A-CS MSD	680-90723-24 MSD	42

	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.: 680-90723-2

SDG No.: 68090723-2

Matrix: Solid Level: Low Lab File ID: 1CF04021.D

Lab ID: LCS 660-137991/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	664	584	88	39-130	
Acenaphthylene	664	628	95	38-130	
Anthracene	664	592	89	37-130	
Benzo[a]anthracene	664	612	92	40-130	
Benzo[a]pyrene	664	583	88	49-130	
Benzo[b]fluoranthene	664	680	102	37-130	
Benzo[g,h,i]perylene	664	561	85	32-130	
Benzo[k]fluoranthene	664	597	90	32-130	
Chrysene	664	572	86	41-130	
Dibenz(a,h)anthracene	664	689	104	27-130	
Fluoranthene	664	594	90	40-130	
Fluorene	664	617	93	40-130	
Indeno[1,2,3-cd]pyrene	664	533	80	30-130	
1-Methylnaphthalene	664	590	89	31-130	
2-Methylnaphthalene	664	576	87	33-130	
Naphthalene	664	499	75	36-130	
Phenanthrene	664	543	82	42-130	
Pyrene	664	662	100	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.: 680-90723-2

SDG No.: 68090723-2

Matrix: Solid Level: Low Lab File ID: 1CF05026.D

Lab ID: LCS 660-137999/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	669	601	90	39-130	
Acenaphthylene	669	586	88	38-130	
Anthracene	669	562	84	37-130	
Benzo[a]anthracene	669	560	84	40-130	
Benzo[a]pyrene	669	535	80	49-130	
Benzo[b]fluoranthene	669	669	100	37-130	
Benzo[g,h,i]perylene	669	598	89	32-130	
Benzo[k]fluoranthene	669	541	81	32-130	
Chrysene	669	535	80	41-130	
Dibenz(a,h)anthracene	669	670	100	27-130	
Fluoranthene	669	597	89	40-130	
Fluorene	669	582	87	40-130	
Indeno[1,2,3-cd]pyrene	669	583	87	30-130	
1-Methylnaphthalene	669	546	82	31-130	
2-Methylnaphthalene	669	564	84	33-130	
Naphthalene	669	454	68	36-130	
Phenanthrene	669	534	80	42-130	
Pyrene	669	539	81	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.: 680-90723-2

SDG No.: 68090723-2

Matrix: Solid Level: Low Lab File ID: 1CF05028.D

Lab ID: 680-90852-A-9-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	729	110 U	394	54	39-130	
Acenaphthylene	729	11 J	419	56	38-130	
Anthracene	729	14	417	55	37-130	
Benzo[a]anthracene	729	63	429	50	40-130	
Benzo[a]pyrene	729	59	382	44	49-130	F
Benzo[b]fluoranthene	729	100	519	57	37-130	
Benzo[g,h,i]perylene	729	90	425	46	32-130	
Benzo[k]fluoranthene	729	41	400	49	32-130	
Chrysene	729	110	441	46	41-130	
Dibenz(a,h)anthracene	729	18 J	418	55	27-130	
Fluoranthene	729	95	467	51	40-130	
Fluorene	729	11 J	444	59	40-130	
Indeno[1,2,3-cd]pyrene	729	47	373	45	30-130	
1-Methylnaphthalene	729	65	565	69	31-130	
2-Methylnaphthalene	729	120	517	54	33-130	
Naphthalene	729	64	371	42	36-130	
Phenanthrene	729	110	540	59	42-130	
Pyrene	729	86	482	54	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.: 680-90723-2

SDG No.: 68090723-2

Matrix: Solid Level: Low Lab File ID: 1CF04035.D

Lab ID: 680-90723-24 MS Client ID: CV1015A-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	885	130 U	374	42	39-130	
Acenaphthylene	885	38 J	300	30	38-130	F
Anthracene	885	54	338	32	37-130	F
Benzo[a]anthracene	885	270	596	36	40-130	F
Benzo[a]pyrene	885	240	467	26	49-130	F
Benzo[b]fluoranthene	885	480	734	29	37-130	F
Benzo[g,h,i]perylene	885	180	380	22	32-130	F
Benzo[k]fluoranthene	885	170	437	30	32-130	F
Chrysene	885	410	623	24	41-130	F
Dibenz(a,h)anthracene	885	49	367	36	27-130	
Fluoranthene	885	460	646	21	40-130	F
Fluorene	885	19 J	378	41	40-130	
Indeno[1,2,3-cd]pyrene	885	140	335	23	30-130	F
1-Methylnaphthalene	885	95	446	40	31-130	
2-Methylnaphthalene	885	110	469	40	33-130	
Naphthalene	885	110	430	36	36-130	
Phenanthrene	885	310	589	32	42-130	F
Pyrene	885	420	673	28	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.: 680-90723-2

SDG No.: 68090723-2

Matrix: Solid Level: Low Lab File ID: 1CF05029.D

Lab ID: 680-90852-A-9-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	729	399	55	1	40	39-130	
Acenaphthylene	729	442	59	6	40	38-130	
Anthracene	729	447	59	7	40	37-130	
Benzo[a]anthracene	729	479	57	11	40	40-130	
Benzo[a]pyrene	729	434	51	13	40	49-130	
Benzo[b]fluoranthene	729	537	59	4	40	37-130	
Benzo[g,h,i]perylene	729	487	54	14	40	32-130	
Benzo[k]fluoranthene	729	461	58	14	40	32-130	
Chrysene	729	499	54	12	40	41-130	
Dibenz(a,h)anthracene	729	463	61	10	40	27-130	
Fluoranthene	729	529	60	12	40	40-130	
Fluorene	729	439	59	1	40	40-130	
Indeno[1,2,3-cd]pyrene	729	413	50	10	40	30-130	
1-Methylnaphthalene	729	465	55	19	40	31-130	
2-Methylnaphthalene	729	514	54	1	40	33-130	
Naphthalene	729	364	41	2	40	36-130	
Phenanthrene	729	502	54	7	40	42-130	
Pyrene	729	498	56	3	40	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.: 680-90723-2

SDG No.: 68090723-2

Matrix: Solid Level: Low Lab File ID: 1CF04036.D

Lab ID: 680-90723-24 MSD Client ID: CV1015A-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	885	387	44	3	40	39-130	
Acenaphthylene	885	376	38	22	40	38-130	
Anthracene	885	399	39	16	40	37-130	
Benzo[a]anthracene	885	678	46	13	40	40-130	
Benzo[a]pyrene	885	534	33	13	40	49-130	F
Benzo[b]fluoranthene	885	862	43	16	40	37-130	
Benzo[g,h,i]perylene	885	399	25	5	40	32-130	F
Benzo[k]fluoranthene	885	511	38	16	40	32-130	
Chrysene	885	740	37	17	40	41-130	F
Dibenz(a,h)anthracene	885	360	35	2	40	27-130	
Fluoranthene	885	865	46	29	40	40-130	
Fluorene	885	416	45	10	40	40-130	
Indeno[1,2,3-cd]pyrene	885	376	27	12	40	30-130	F
1-Methylnaphthalene	885	485	44	8	40	31-130	
2-Methylnaphthalene	885	527	47	12	40	33-130	
Naphthalene	885	494	43	14	40	36-130	
Phenanthrene	885	686	43	15	40	42-130	
Pyrene	885	874	51	26	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.: 680-90723-2

SDG No.: 68090723-2

Lab File ID: 1CF04020.D Lab Sample ID: MB 660-137991/1-A

Matrix: Solid Date Extracted: 06/03/2013 10:11

Instrument ID: BSMC5973 Date Analyzed: 06/04/2013 16:06

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-137991/2-A	1CF04021.D	06/04/2013 16:24
CV1014A-CS	680-90723-21	1CF04031.D	06/04/2013 19:27
CV1014A-CSD	680-90723-22	1CF04032.D	06/04/2013 19:46
CV1015A-CS	680-90723-24	1CF04034.D	06/04/2013 20:22
CV1015A-CS MS	680-90723-24 MS	1CF04035.D	06/04/2013 20:41
CV1015A-CS MSD	680-90723-24 MSD	1CF04036.D	06/04/2013 20:59
CV1015B-CS	680-90723-25	1CF05006.D	06/05/2013 12:20
CV1111A-CS	680-90723-26	1CF05007.D	06/05/2013 12:39
CV0315A-CS	680-90723-27	1CF05008.D	06/05/2013 12:57
CV0315B-CS	680-90723-28	1CF05009.D	06/05/2013 13:16
CV1164A-CS	680-90723-29	1CF05010.D	06/05/2013 13:34
CV1164B-CS	680-90723-30	1CF05011.D	06/05/2013 13:52
CV1164C-CS	680-90723-31	1CF05012.D	06/05/2013 14:11
CV1014B-CS	680-90723-23	1CF05013.D	06/05/2013 14:41

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Lab File ID: 1CF05025.D Lab Sample ID: MB 660-137999/1-A

Matrix: Solid Date Extracted: 06/03/2013 13:04

Instrument ID: BSMC5973 Date Analyzed: 06/05/2013 19:12

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-137999/2-A	1CF05026.D	06/05/2013 19:30
	680-90852-A-9-B MS	1CF05028.D	06/05/2013 20:07
	680-90852-A-9-C MSD	1CF05029.D	06/05/2013 20:25
CV1301A-CS	680-90723-32	1CF05030.D	06/05/2013 20:44
CV1301B-CS	680-90723-33	1CF05031.D	06/05/2013 21:02
CV1242A-CS	680-90723-34	1CF05032.D	06/05/2013 21:20
CV1242A-CSD	680-90723-35	1CF05033.D	06/05/2013 21:39
CV1242B-CS	680-90723-36	1CF05034.D	06/05/2013 21:57
CV1242C-CS	680-90723-37	1CF05035.D	06/05/2013 22:16
HP0331A-CS-SP	680-90723-38	1CF05036.D	06/05/2013 22:34
HP0332A-CS-SP	680-90723-39	1CF05037.D	06/05/2013 22:52
HP0332B-CS-SP	680-90723-40	1DF06009.D	06/06/2013 14:50

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Lab File ID: 1CE22002.D DFTPP Injection Date: 05/22/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 10:24

Analysis Batch No.: 137704

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	26.9	
68	Less than 2.0 % of mass 69	0.7	(1.6)1
69	Mass 69 relative abundance	41.8	
70	Less than 2.0 % of mass 69	0.4	(0.9)1
127	10.0 - 80.0 % of mass 198	49.5	
197	Less than 2.0 % of mass 198	0.3	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.7	
275	10.0 - 60.0 % of mass 198	25.4	
365	Greater than 1.0 % of mass 198	2.7	
441	Present but less than mass 443	14.1	
442	Greater than 50.0 % of mass 198	87.6	
443	15.0 - 24.0 % of mass 442	15.7	(18.0)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
	IC 660-137704/15	1CE22014.D	05/22/2013	16:16
	IC 660-137704/16	1CE22015.D	05/22/2013	16:34
	IC 660-137704/17	1CE22016.D	05/22/2013	16:52
	IC 660-137704/18	1CE22017.D	05/22/2013	17:10
	ICIS 660-137704/19	1CE22018.D	05/22/2013	17:29
	IC 660-137704/20	1CE22019.D	05/22/2013	17:47
	IC 660-137704/21	1CE22020.D	05/22/2013	18:05
	ICV 660-137704/22	1CE22021.D	05/22/2013	18:24

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Lab File ID: 1CF04002.D DFTPP Injection Date: 06/04/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 10:20

Analysis Batch No.: 138098

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	30.7	
68	Less than 2.0 % of mass 69	0.7	(1.3)1
69	Mass 69 relative abundance	50.4	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	49.8	
197	Less than 2.0 % of mass 198	0.8	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.3	
275	10.0 - 60.0 % of mass 198	21.5	
365	Greater than 1.0 % of mass 198	3.8	
441	Present but less than mass 443	10.6	
442	Greater than 50.0 % of mass 198	71.6	
443	15.0 - 24.0 % of mass 442	13.6	(19.0)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 660-138098/3	1CF04003.D	06/04/2013	10:50
	MB 660-137991/1-A	1CF04020.D	06/04/2013	16:06
	LCS 660-137991/2-A	1CF04021.D	06/04/2013	16:24
CV1014A-CS	680-90723-21	1CF04031.D	06/04/2013	19:27
CV1014A-CSD	680-90723-22	1CF04032.D	06/04/2013	19:46
CV1015A-CS	680-90723-24	1CF04034.D	06/04/2013	20:22
CV1015A-CS MS	680-90723-24 MS	1CF04035.D	06/04/2013	20:41
CV1015A-CS MSD	680-90723-24 MSD	1CF04036.D	06/04/2013	20:59

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Lab File ID: 1CF05002.D DFTPP Injection Date: 06/05/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:08

Analysis Batch No.: 138101

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	31.6	
68	Less than 2.0 % of mass 69	0.5	(1.2)1
69	Mass 69 relative abundance	43.5	
70	Less than 2.0 % of mass 69	0.1	(0.2)1
127	10.0 - 80.0 % of mass 198	48.1	
197	Less than 2.0 % of mass 198	0.7	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.9	
275	10.0 - 60.0 % of mass 198	25.1	
365	Greater than 1.0 % of mass 198	2.4	
441	Present but less than mass 443	12.5	
442	Greater than 50.0 % of mass 198	88.5	
443	15.0 - 24.0 % of mass 442	16.6	(18.8)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-138101/3	1CF05003.D	06/05/2013	11:24
CV1015B-CS	680-90723-25	1CF05006.D	06/05/2013	12:20
CV1111A-CS	680-90723-26	1CF05007.D	06/05/2013	12:39
CV0315A-CS	680-90723-27	1CF05008.D	06/05/2013	12:57
CV0315B-CS	680-90723-28	1CF05009.D	06/05/2013	13:16
CV1164A-CS	680-90723-29	1CF05010.D	06/05/2013	13:34
CV1164B-CS	680-90723-30	1CF05011.D	06/05/2013	13:52
CV1164C-CS	680-90723-31	1CF05012.D	06/05/2013	14:11
CV1014B-CS	680-90723-23	1CF05013.D	06/05/2013	14:41
	MB 660-137999/1-A	1CF05025.D	06/05/2013	19:12
	LCS 660-137999/2-A	1CF05026.D	06/05/2013	19:30
	680-90852-A-9-B MS	1CF05028.D	06/05/2013	20:07
	680-90852-A-9-C MSD	1CF05029.D	06/05/2013	20:25
CV1301A-CS	680-90723-32	1CF05030.D	06/05/2013	20:44
CV1301B-CS	680-90723-33	1CF05031.D	06/05/2013	21:02
CV1242A-CS	680-90723-34	1CF05032.D	06/05/2013	21:20
CV1242A-CSD	680-90723-35	1CF05033.D	06/05/2013	21:39
CV1242B-CS	680-90723-36	1CF05034.D	06/05/2013	21:57
CV1242C-CS	680-90723-37	1CF05035.D	06/05/2013	22:16
HP0331A-CS-SP	680-90723-38	1CF05036.D	06/05/2013	22:34
HP0332A-CS-SP	680-90723-39	1CF05037.D	06/05/2013	22:52

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

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.: 680-90723-2

SDG No.: 68090723-2

Lab File ID: 1DF06002.D DFTPP Injection Date: 06/06/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 12:05

Analysis Batch No.: 138163

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	36.9	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	40.1	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	45.3	
197	Less than 2.0 % of mass 198	0.8	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.1	
275	10.0 - 60.0 % of mass 198	31.1	
365	Greater than 1.0 % of mass 198	4.8	
441	Present but less than mass 443	12.1	
442	Greater than 50.0 % of mass 198	76.9	
443	15.0 - 24.0 % of mass 442	15.8	(20.6)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-138163/4	1DF06004.D	06/06/2013	12:56
HP0332B-CS-SP	680-90723-40	1DF06009.D	06/06/2013	14:50

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Sample No.: ICIS 660-137704/19 Date Analyzed: 05/22/2013 17:29

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

Lab File ID (Standard): 1CE22018.D Heated Purge: (Y/N) N

Calibration ID: 2979

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2696939	4.06	1843203	5.15	3628372	6.12
UPPER LIMIT		5393878	4.56	3686406	5.65	7256744	6.62
LOWER LIMIT		1348470	3.56	921602	4.65	1814186	5.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-137704/22		3002271	4.06	2105599	5.15	3933786	6.12

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.: 680-90723-2

SDG No.: 68090723-2

Sample No.: ICIS 660-137704/19 Date Analyzed: 05/22/2013 17:29

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

Lab File ID (Standard): 1CE22018.D Heated Purge: (Y/N) N

Calibration ID: 2979

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		4592658	8.08	4701347	9.42		
UPPER LIMIT		9185316	8.58	9402694	9.92		
LOWER LIMIT		2296329	7.58	2350674	8.92		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-137704/22		4897113	8.08	5001508	9.42		

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.: 680-90723-2

SDG No.: 68090723-2

Sample No.: CCVIS 660-138098/3 Date Analyzed: 06/04/2013 10:50

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

Lab File ID (Standard): 1CF04003.D Heated Purge: (Y/N) N

Calibration ID: 2979

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3174307	4.05	2209321	5.13	4430348	6.10
UPPER LIMIT		6348614	4.55	4418642	5.63	8860696	6.60
LOWER LIMIT		1587154	3.55	1104661	4.63	2215174	5.60
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137991/1-A		2538180	4.05	1800811	5.13	3242505	6.10
LCS 660-137991/2-A		2633436	4.05	1783286	5.13	3441118	6.10
680-90723-21	CV1014A-CS	2627548	4.05	1784179	5.13	3157018	6.10
680-90723-22	CV1014A-CSD	2681512	4.05	1827637	5.13	3273240	6.10
680-90723-24	CV1015A-CS	2712875	4.05	1876088	5.13	3229457	6.10
680-90723-24 MS	CV1015A-CS MS	2586644	4.05	1766691	5.13	3154823	6.10
680-90723-24 MSD	CV1015A-CS MSD	2605247	4.05	1722476	5.13	2880956	6.10

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.: 680-90723-2

SDG No.: 68090723-2

Sample No.: CCVIS 660-138098/3 Date Analyzed: 06/04/2013 10:50

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

Lab File ID (Standard): 1CF04003.D Heated Purge: (Y/N) N

Calibration ID: 2979

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		5836553	8.07	5791367	9.41		
UPPER LIMIT		11673106	8.57	11582734	9.91		
LOWER LIMIT		2918277	7.57	2895684	8.91		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137991/1-A		3347505	8.06	3307771	9.40		
LCS 660-137991/2-A		3508337	8.06	3331650	9.40		
680-90723-21	CV1014A-CS	3160910	8.07	3323968	9.40		
680-90723-22	CV1014A-CSD	3189955	8.07	3242024	9.41		
680-90723-24	CV1015A-CS	3369782	8.07	3229488	9.41		
680-90723-24 MS	CV1015A-CS MS	3223545	8.07	3044054	9.41		
680-90723-24 MSD	CV1015A-CS MSD	2967941	8.07	3072963	9.40		

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.: 680-90723-2

SDG No.: 68090723-2

Sample No.: CCVIS 660-138101/3 Date Analyzed: 06/05/2013 11:24

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

Lab File ID (Standard): 1CF05003.D Heated Purge: (Y/N) N

Calibration ID: 2979

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3117690	4.04	2187855	5.13	4236955	6.09
UPPER LIMIT		6235380	4.54	4375710	5.63	8473910	6.59
LOWER LIMIT		1558845	3.54	1093928	4.63	2118478	5.59
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-90723-25	CV1015B-CS	2195368	4.04	1568060	5.13	2977833	6.09
680-90723-26	CV1111A-CS	2346462	4.04	1692914	5.13	3237087	6.09
680-90723-27	CV0315A-CS	2417198	4.04	1745013	5.13	3249252	6.09
680-90723-28	CV0315B-CS	2311143	4.04	1610630	5.13	3036520	6.09
680-90723-29	CV1164A-CS	2431026	4.04	1723222	5.13	3126391	6.09
680-90723-30	CV1164B-CS	2552486	4.04	1808919	5.13	3231938	6.09
680-90723-31	CV1164C-CS	2377676	4.04	1660902	5.13	2981558	6.09
680-90723-23	CV1014B-CS	3053598	4.04	2129100	5.13	4056656	6.10
MB 660-137999/1-A		2183946	4.04	1598557	5.13	2946078	6.09
LCS 660-137999/2-A		2085180	4.04	1507736	5.13	2687188	6.09
680-90852-A-9-B MS		2169232	4.04	1562224	5.13	2941751	6.09
680-90852-A-9-C MSD		2239395	4.04	1640510	5.13	3027304	6.09
680-90723-32	CV1301A-CS	2092708	4.04	1503312	5.13	2756799	6.10
680-90723-33	CV1301B-CS	2178243	4.04	1547333	5.13	2939238	6.10
680-90723-34	CV1242A-CS	2122683	4.04	1495453	5.13	2748783	6.10
680-90723-35	CV1242A-CSD	2155390	4.04	1558553	5.13	2896736	6.10
680-90723-36	CV1242B-CS	2260275	4.04	1588080	5.13	2896848	6.10
680-90723-37	CV1242C-CS	2083688	4.04	1479602	5.13	2703091	6.10
680-90723-38	HP0331A-CS-SP	2149259	4.04	1509395	5.13	2741220	6.10
680-90723-39	HP0332A-CS-SP	2203062	4.04	1523093	5.13	2891024	6.10

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.: 680-90723-2

SDG No.: 68090723-2

Sample No.: CCVIS 660-138101/3 Date Analyzed: 06/05/2013 11:24

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

Lab File ID (Standard): 1CF05003.D Heated Purge: (Y/N) N

Calibration ID: 2979

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		5431412	8.06	5530236	9.39		
UPPER LIMIT		10862824	8.56	11060472	9.89		
LOWER LIMIT		2715706	7.56	2765118	8.89		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-90723-25	CV1015B-CS	3545250	8.06	3336779	9.39		
680-90723-26	CV1111A-CS	3644201	8.06	3876072	9.39		
680-90723-27	CV0315A-CS	3552909	8.06	3398455	9.39		
680-90723-28	CV0315B-CS	3346540	8.06	3374120	9.39		
680-90723-29	CV1164A-CS	3467516	8.06	3481017	9.39		
680-90723-30	CV1164B-CS	3583006	8.06	3401772	9.39		
680-90723-31	CV1164C-CS	3311734	8.06	3151259	9.39		
680-90723-23	CV1014B-CS	4521891	8.07	4362176	9.40		
MB 660-137999/1-A		3429654	8.06	3201426	9.39		
LCS 660-137999/2-A		3438292	8.06	3126738	9.39		
680-90852-A-9-B MS		3209887	8.06	2911796	9.39		
680-90852-A-9-C MSD		3579574	8.06	3250006	9.39		
680-90723-32	CV1301A-CS	3212681	8.06	3005224	9.39		
680-90723-33	CV1301B-CS	3272729	8.06	3113368	9.39		
680-90723-34	CV1242A-CS	3247309	8.06	3041348	9.39		
680-90723-35	CV1242A-CSD	3249246	8.06	2940077	9.39		
680-90723-36	CV1242B-CS	3191993	8.06	3000883	9.39		
680-90723-37	CV1242C-CS	3214911	8.06	2960853	9.39		
680-90723-38	HP0331A-CS-SP	3159897	8.06	2973742	9.39		
680-90723-39	HP0332A-CS-SP	3369375	8.06	2936511	9.39		

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.: 680-90723-2

SDG No.: 68090723-2

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.: 680-90723-2

SDG No.: 68090723-2

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.: 680-90723-2

SDG No.: 68090723-2

Sample No.: CCVIS 660-138163/4 Date Analyzed: 06/06/2013 12:56

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

Lab File ID (Standard): 1DF06004.D Heated Purge: (Y/N) N

Calibration ID: 2984

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4994332	6.27	2767803	7.94	4761090	9.20
UPPER LIMIT		9988664	6.77	5535606	8.44	9522180	9.70
LOWER LIMIT		2497166	5.77	1383902	7.44	2380545	8.70
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-90723-40	HP0332B-CS-SP	4967511	6.27	2885393	7.94	4855775	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.: 680-90723-2

SDG No.: 68090723-2

Sample No.: CCVIS 660-138163/4 Date Analyzed: 06/06/2013 12:56

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

Lab File ID (Standard): 1DF06004.D Heated Purge: (Y/N) N

Calibration ID: 2984

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		5009241	11.57	5178715	13.48		
UPPER LIMIT		10018482	12.07	10357430	13.98		
LOWER LIMIT		2504621	11.07	2589358	12.98		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-90723-40	HP0332B-CS-SP	5301924	11.57	5117312	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.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV1014A-CS | Lab Sample ID: 680-90723-21

Matrix: Solid | Lab File ID: 1CF04031.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 13:23

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 14.98(g) | Date Analyzed: 06/04/2013 19:27

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

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

% Moisture: 29.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138098 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	19	J	57	7.1
120-12-7	Anthracene	36		12	6.0
56-55-3	Benzo[a]anthracene	150		11	5.5
50-32-8	Benzo[a]pyrene	150		15	7.4
205-99-2	Benzo[b]fluoranthene	350		17	8.6
191-24-2	Benzo[g,h,i]perylene	130		28	6.2
207-08-9	Benzo[k]fluoranthene	79		11	5.1
218-01-9	Chrysene	230		13	6.4
53-70-3	Dibenz(a,h)anthracene	37		28	5.8
206-44-0	Fluoranthene	250		28	5.7
86-73-7	Fluorene	19	J	28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	96		28	10
90-12-0	1-Methylnaphthalene	57		57	6.2
91-57-6	2-Methylnaphthalene	62		57	10
91-20-3	Naphthalene	38	J	57	6.2
85-01-8	Phenanthrene	160		11	5.5
129-00-0	Pyrene	260		28	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04031.D
Lab Smp Id: 680-90723-A-21-A Client Smp ID: CV1014A-CS
Inj Date : 04-JUN-2013 19:27
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-21-a
Misc Info : 680-90723-A-21-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 31
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	29.362	% 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	4.045	4.045	(1.000)	2627548	40.0000	
* 6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1784179	40.0000	
* 10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3157018	40.0000	
$ 14 o-Terphenyl	230	6.351	6.351	(1.040)	356418	7.24747	684.9109
* 18 Chrysene-d12	240	8.068	8.068	(1.000)	3160910	40.0000	
* 23 Perylene-d12	264	9.404	9.409	(1.000)	3323968	40.0000	
2 Naphthalene	128	4.057	4.057	(1.003)	29903	0.40328	38.1115
3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	27163	0.66045	62.4144
4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	24588	0.60764	57.4240
5 Acenaphthylene	152	5.045	5.045	(0.983)	13698	0.20027	18.9262
9 Fluorene	166	5.474	5.480	(1.066)	11133	0.20342	19.2241
11 Phenanthrene	178	6.116	6.121	(1.002)	153847	1.64945	155.8789
12 Anthracene	178	6.157	6.157	(1.009)	32562	0.37683	35.6117
13 Carbazole	167	6.257	6.257	(1.025)	26461	0.44271	41.8374

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.968	6.968	(1.142)	253365	2.65759	251.1516
16 Pyrene	202	7.139	7.145	(0.885)	238486	2.79407	264.0492
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	141768	1.62652	153.7115
19 Chrysene	228	8.086	8.092	(1.002)	218093	2.48525	234.8650
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	302061	3.69864	349.5340(M)
21 Benzo(k)fluoranthene	252	9.021	9.027	(0.959)	76060	0.83386	78.8024(QM)
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	123049	1.57403	148.7518
24 Indeno(1,2,3-cd)pyrene	276	10.786	10.792	(1.147)	76475	1.01866	96.2668(M)
25 Dibenzo(a,h)anthracene	278	10.798	10.815	(1.148)	27895	0.39318	37.1570
26 Benzo(g,h,i)perylene	276	11.215	11.215	(1.193)	108377	1.40347	132.6325(M)

QC Flag Legend

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

Data File: 1CF04031.D

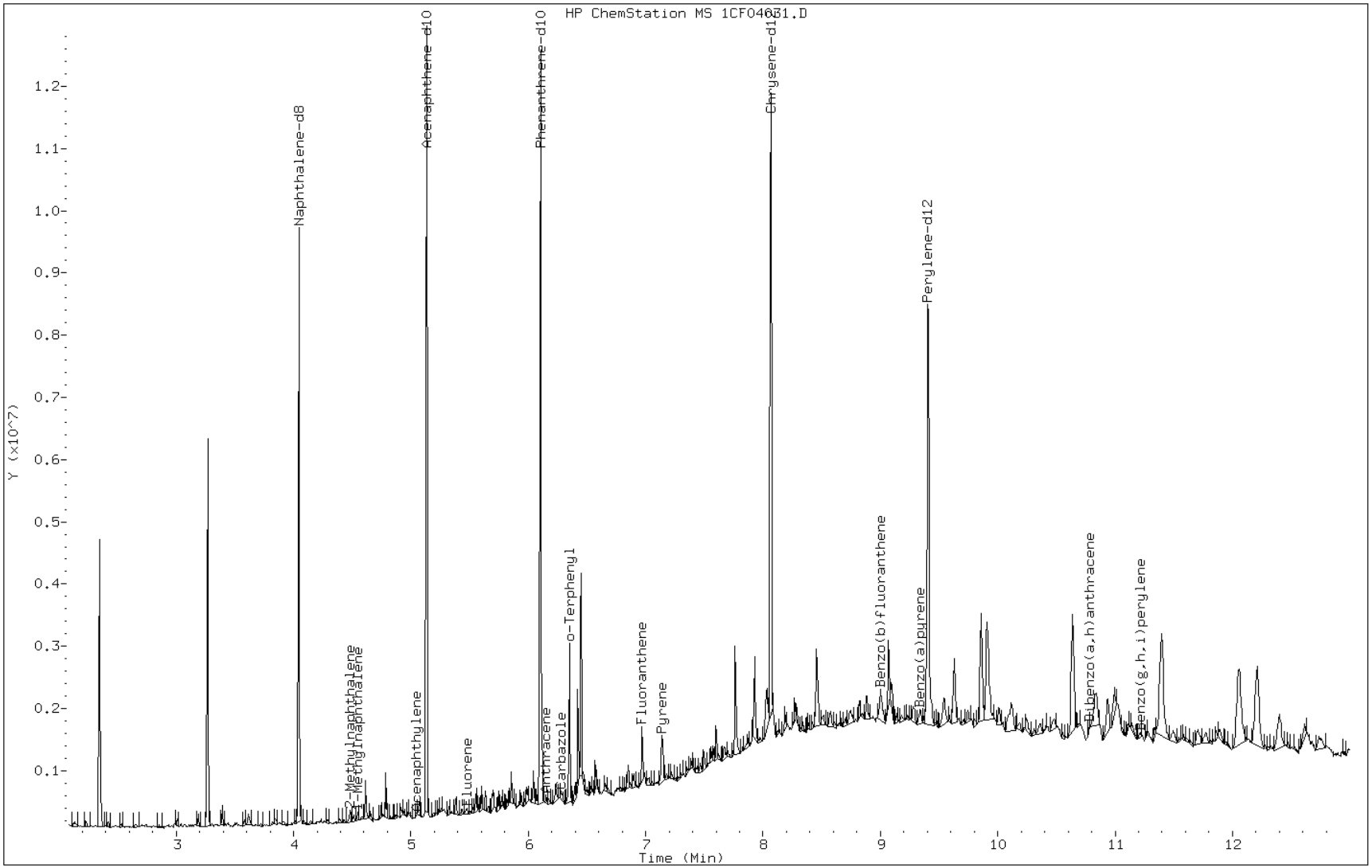
Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS

Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a

Operator: SCC



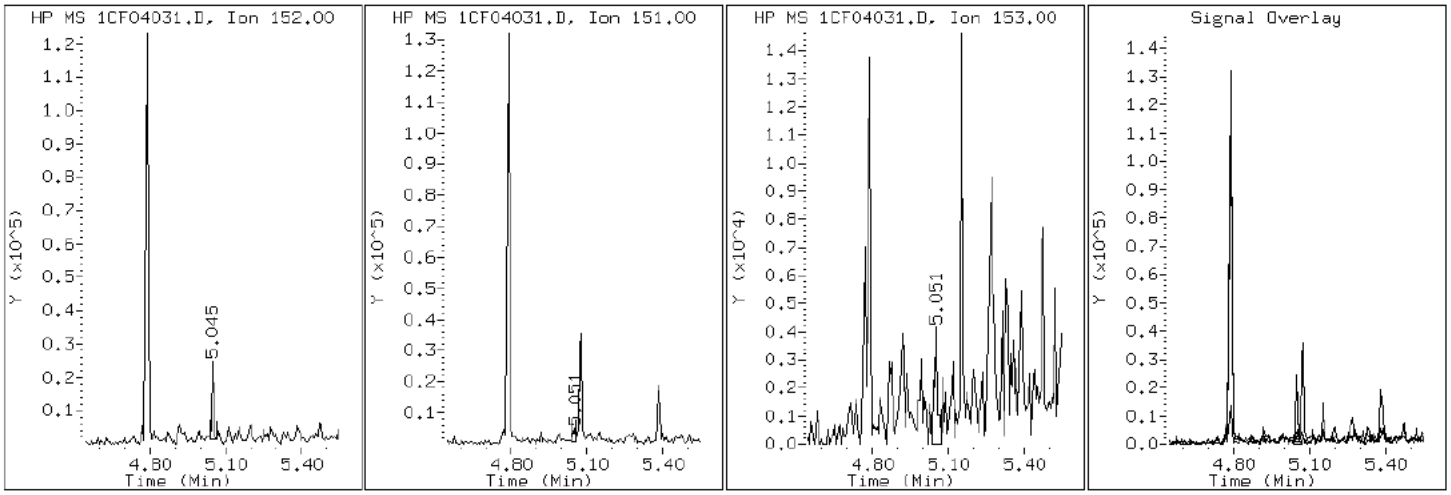
Data File: 1CF04031.D

Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a Operator: SCC

5 Acenaphthylene



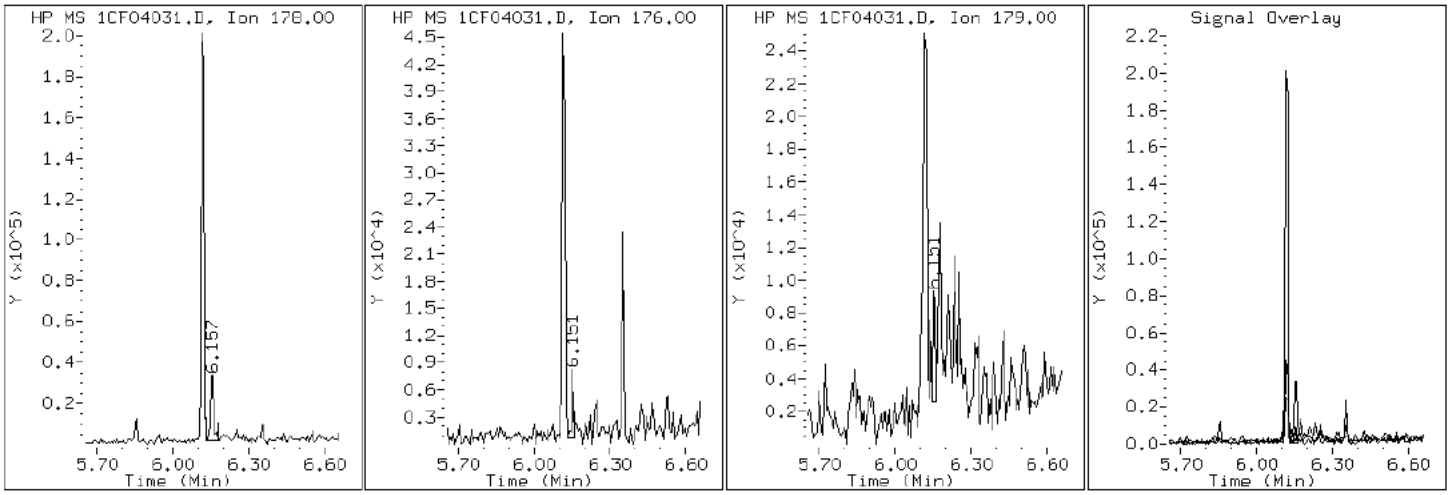
Data File: 1CF04031.D

Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a Operator: SCC

12 Anthracene



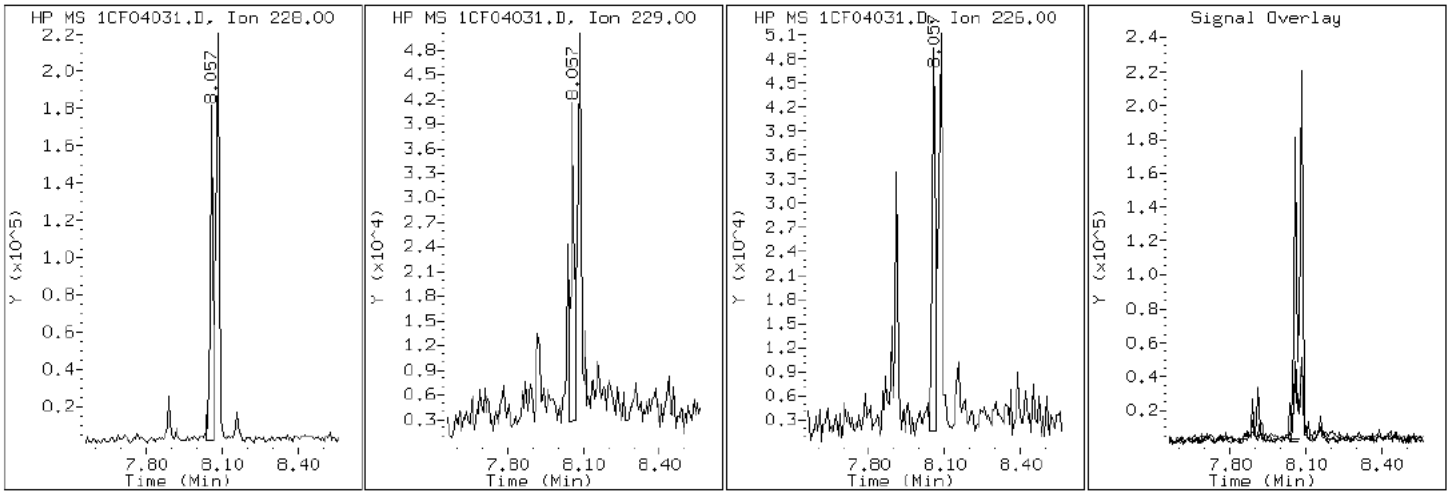
Data File: 1CF04031.D

Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a Operator: SCC

17 Benzo(a)anthracene



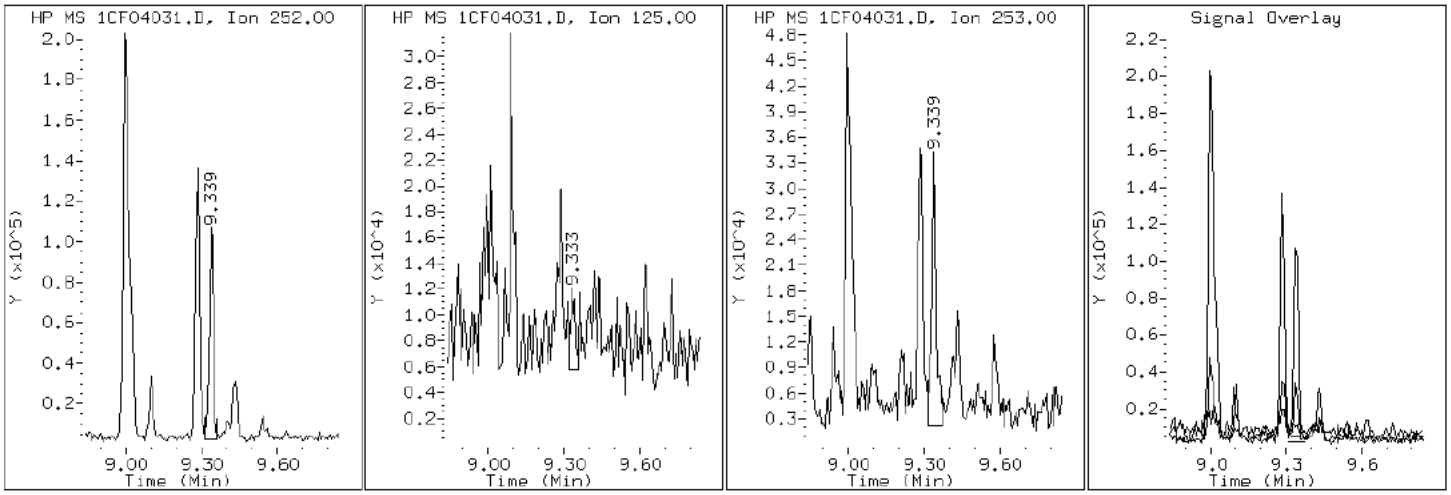
Data File: 1CF04031.D

Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a Operator: SCC

22 Benzo(a)pyrene



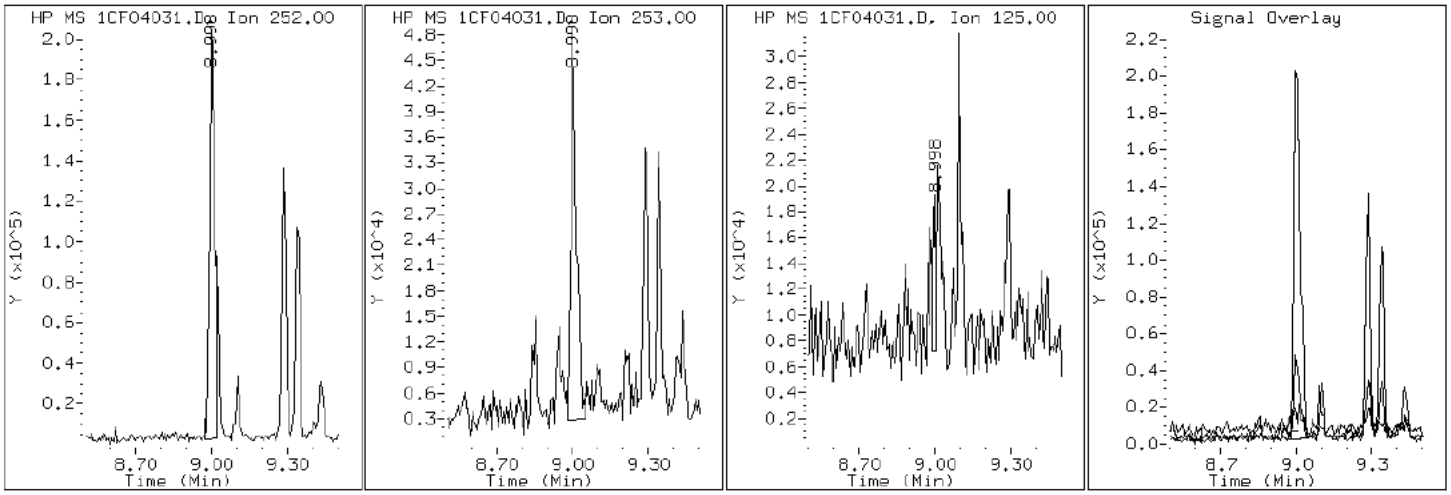
Data File: 1CF04031.D

Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a Operator: SCC

20 Benzo(b)fluoranthene



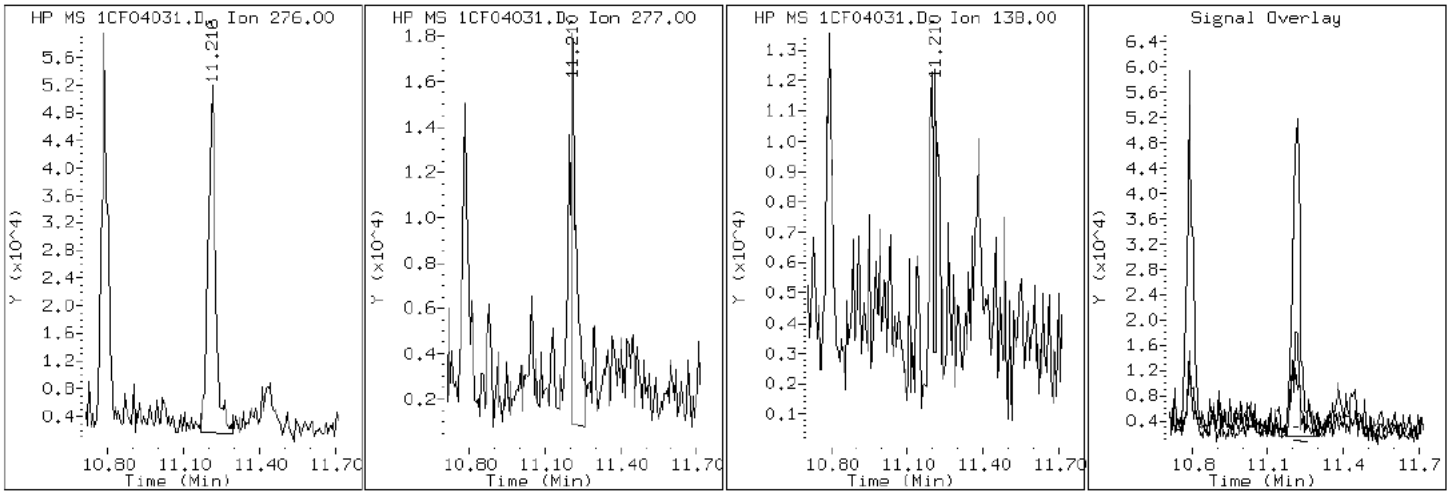
Data File: 1CF04031.D

Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a Operator: SCC

26 Benzo(g,h,i)perylene



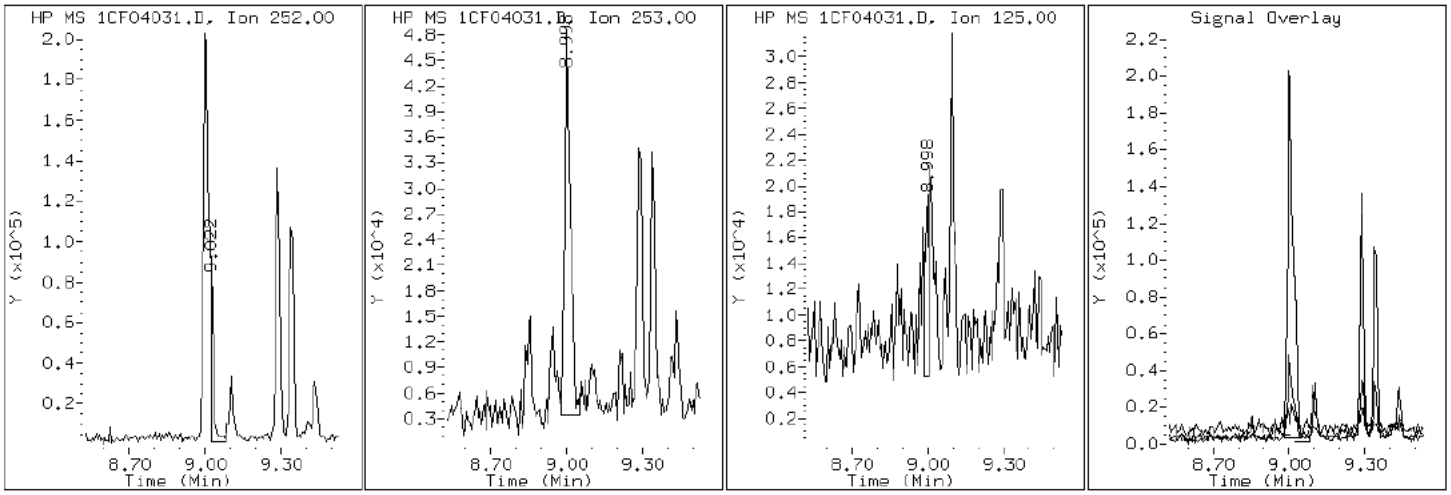
Data File: 1CF04031.D

Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a Operator: SCC

21 Benzo(k)fluoranthene



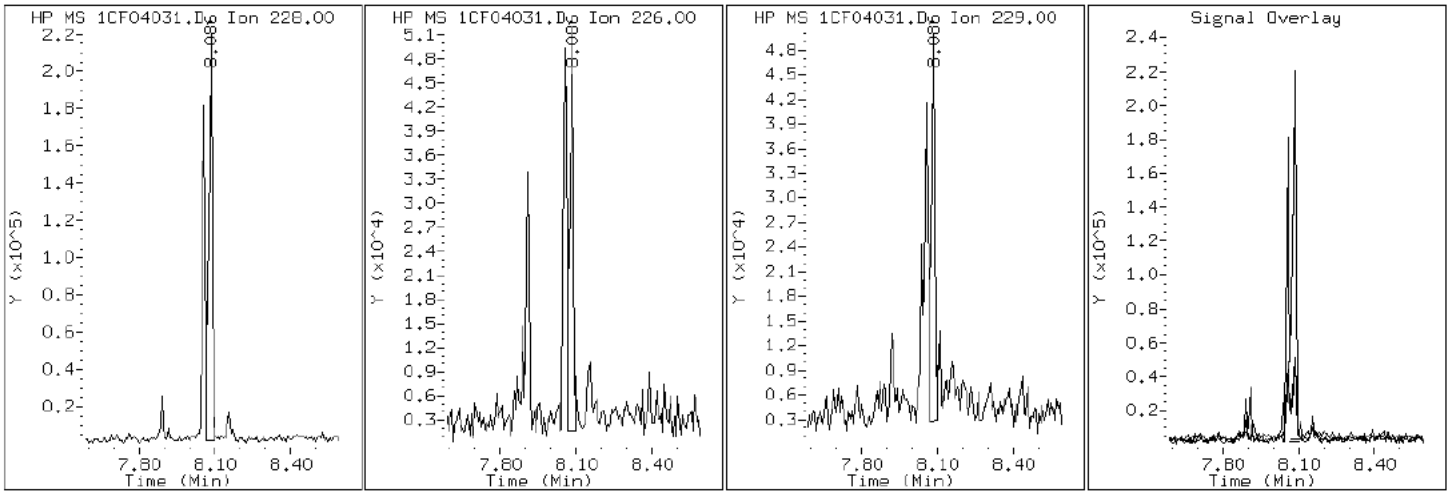
Data File: 1CF04031.D

Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a Operator: SCC

19 Chrysene



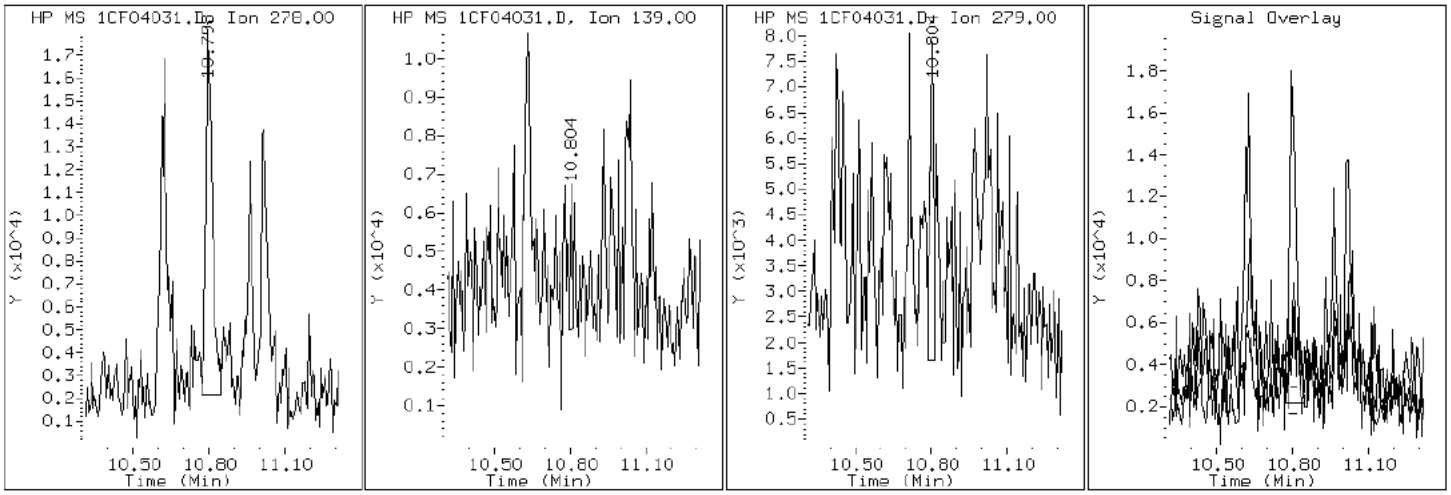
Data File: 1CF04031.D

Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a Operator: SCC

25 Dibenzo(a,h)anthracene



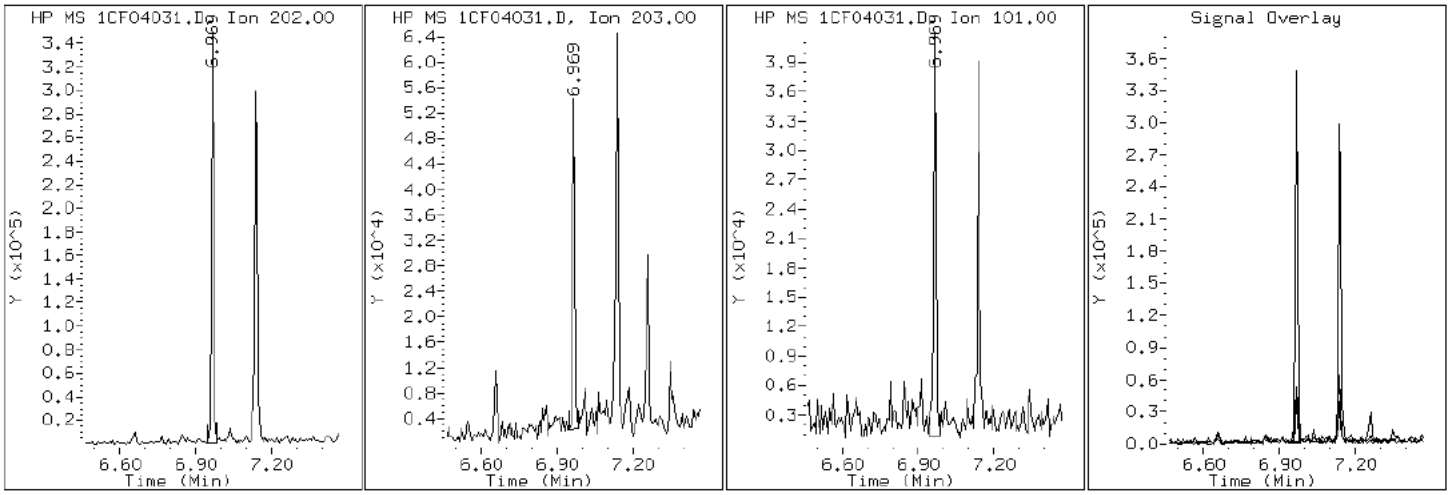
Data File: 1CF04031.D

Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a Operator: SCC

15 Fluoranthene



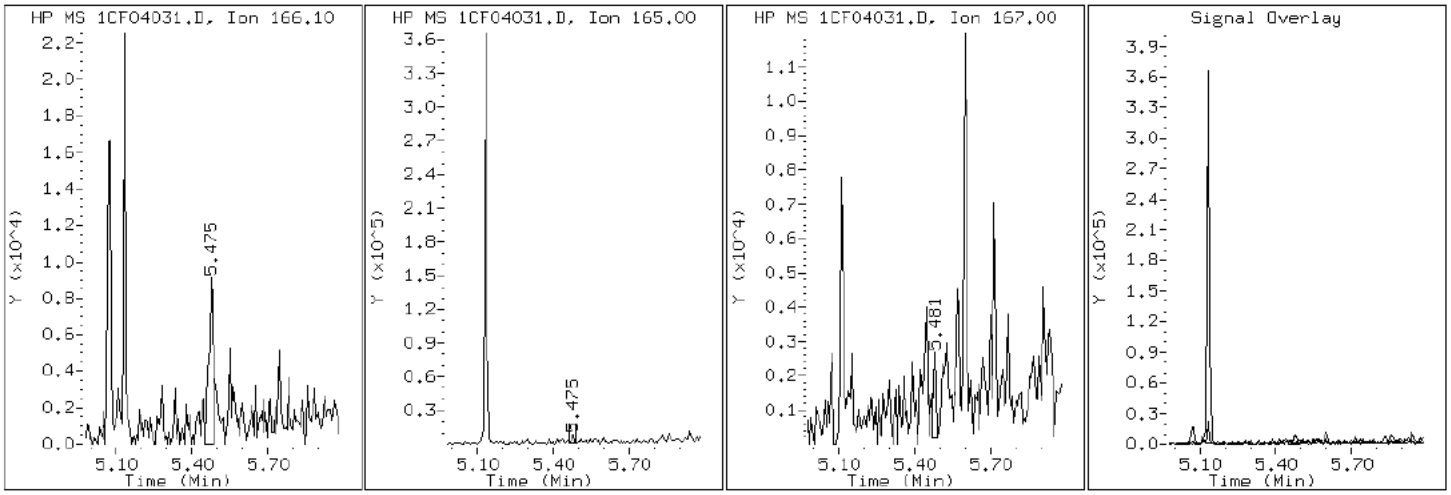
Data File: 1CF04031.D

Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a Operator: SCC

9 Fluorene



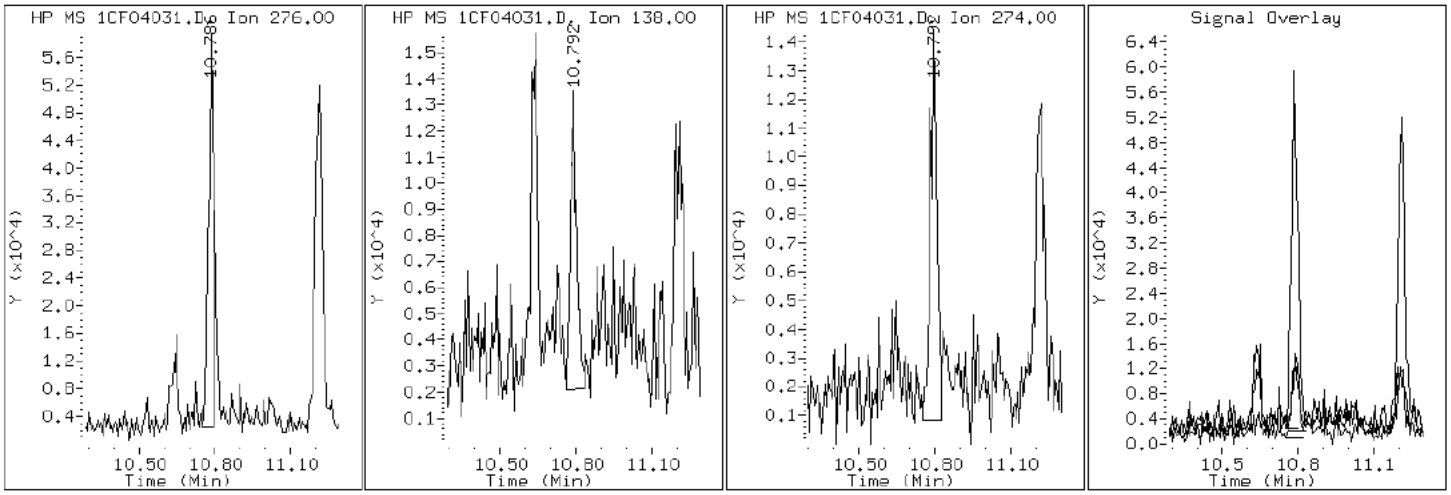
Data File: 1CF04031.D

Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a Operator: SCC

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



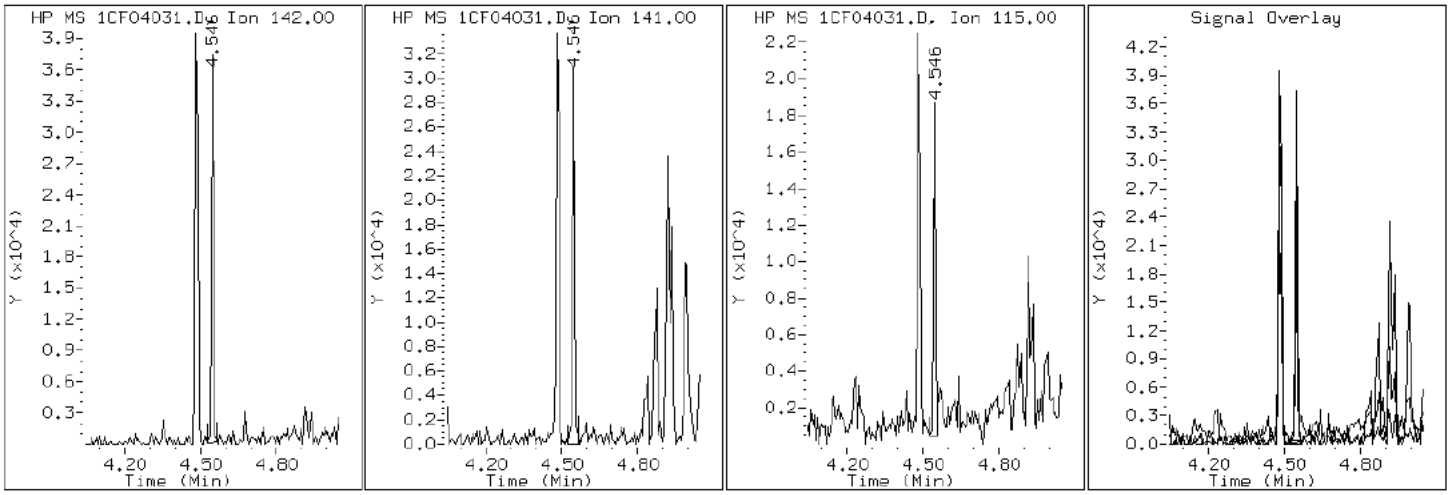
Data File: 1CF04031.D

Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a Operator: SCC

4 1-Methylnaphthalene



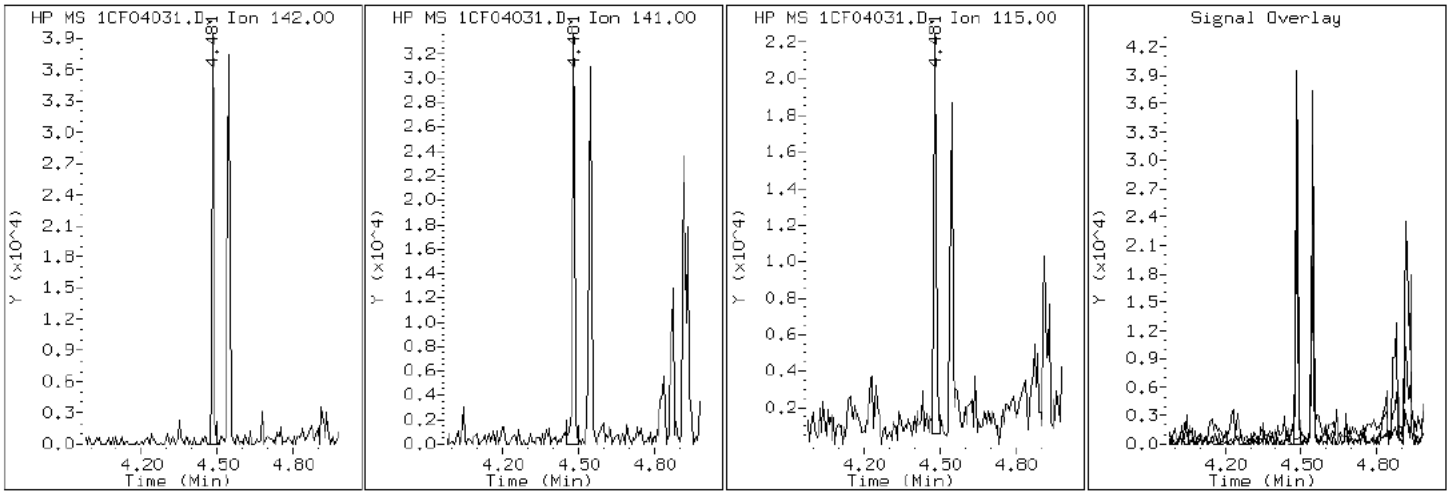
Data File: 1CF04031.D

Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a Operator: SCC

3 2-Methylnaphthalene



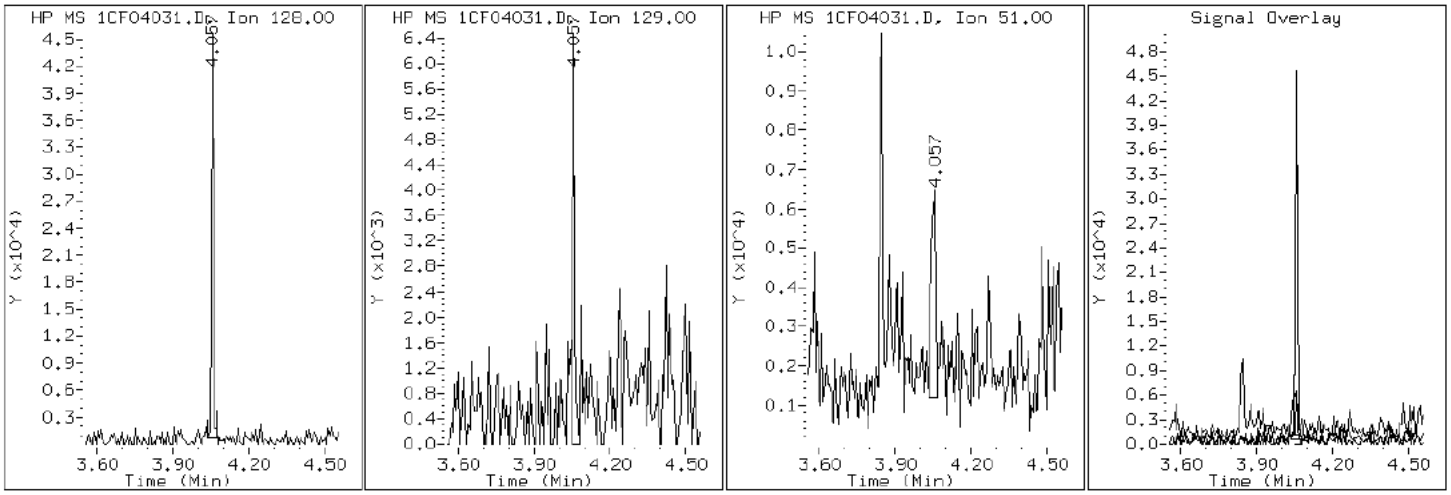
Data File: 1CF04031.D

Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a Operator: SCC

2 Naphthalene



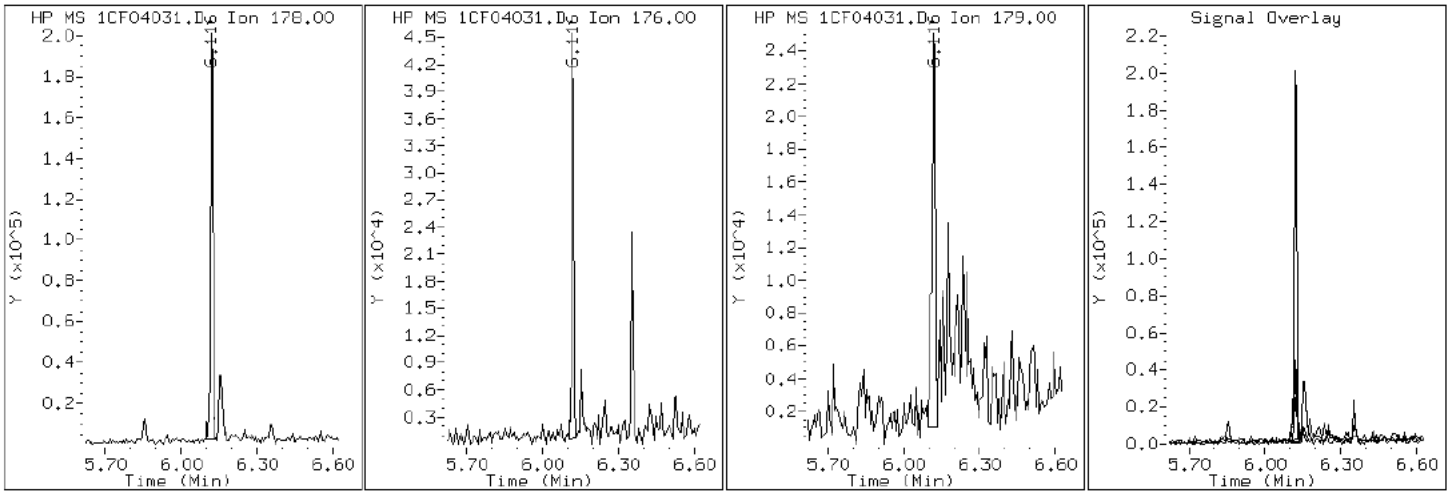
Data File: 1CF04031.D

Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a Operator: SCC

11 Phenanthrene



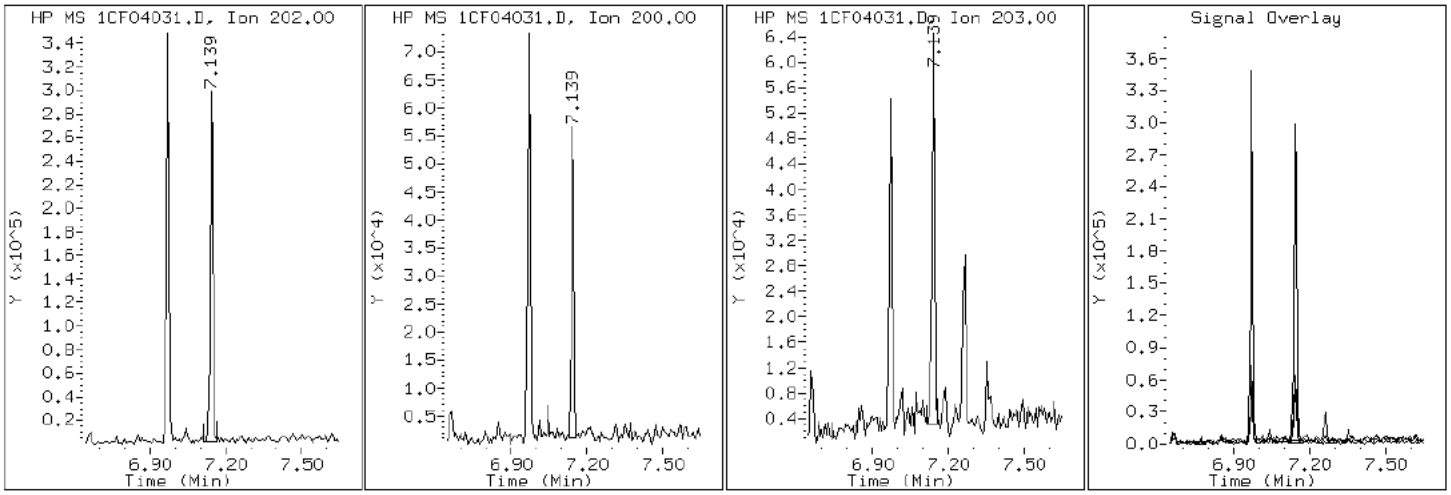
Data File: 1CF04031.D

Date: 04-JUN-2013 19:27

Client ID: CV1014A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-21-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04031.D
Inj. Date and Time: 04-JUN-2013 19:27
Instrument ID: BSMC5973.i
Client ID: CV1014A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

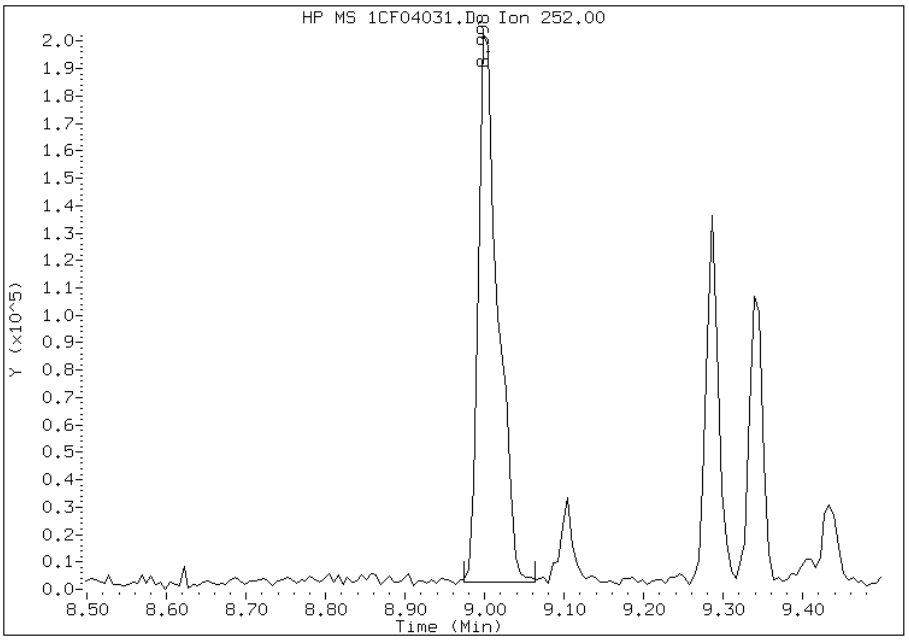
Processing Integration Results

RT: 9.00

Response: 343842

Amount: 4

Conc: 398



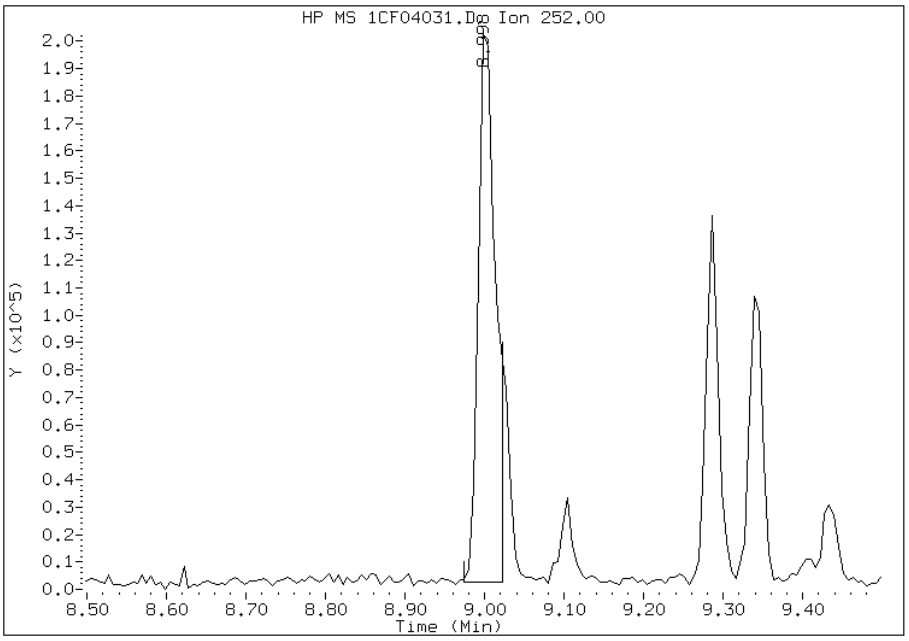
Manual Integration Results

RT: 9.00

Response: 302061

Amount: 4

Conc: 350



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:11
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF04031.D
Inj. Date and Time: 04-JUN-2013 19:27
Instrument ID: BSMC5973.i
Client ID: CV1014A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/05/2013

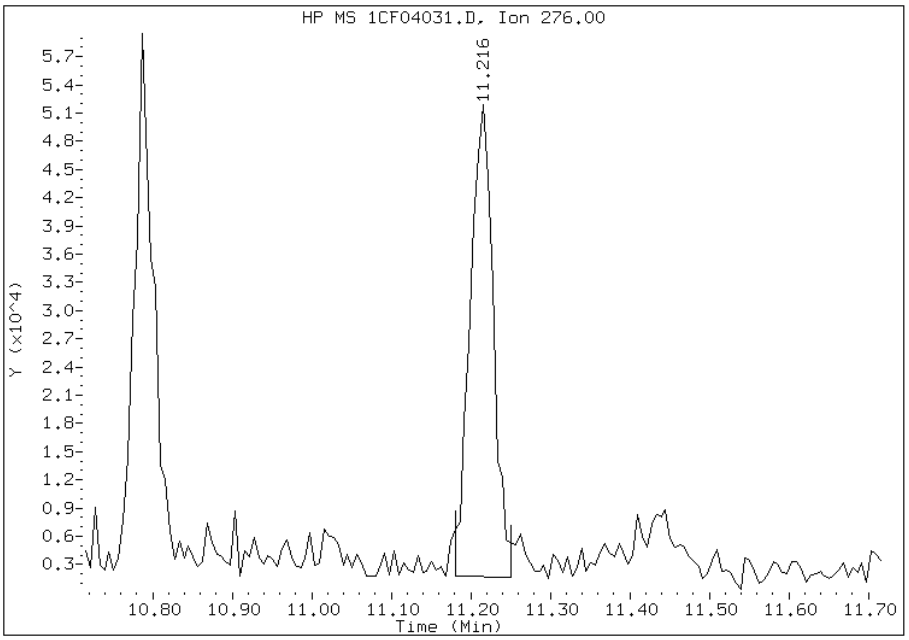
Processing Integration Results

RT: 11.22

Response: 101876

Amount: 1

Conc: 125



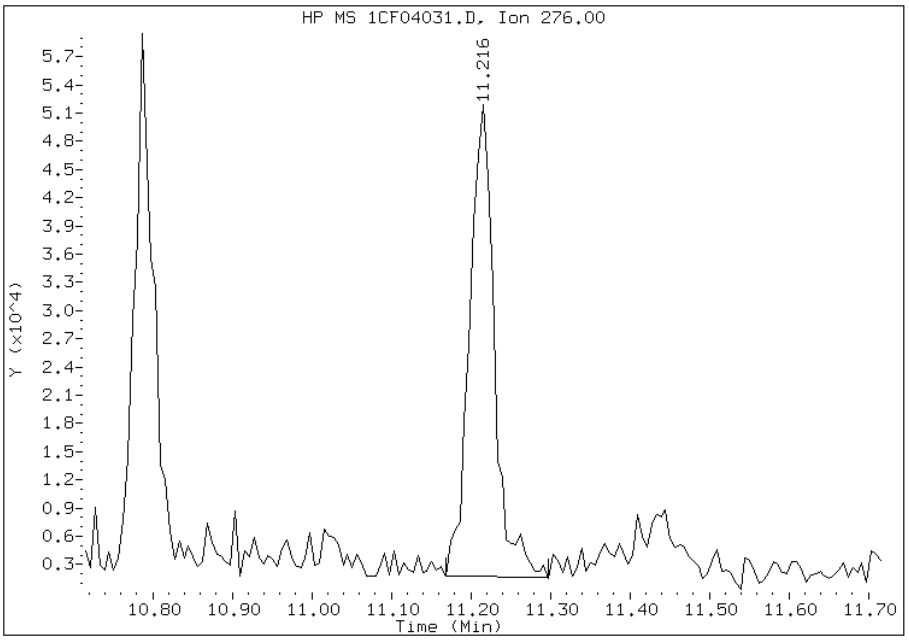
Manual Integration Results

RT: 11.22

Response: 108377

Amount: 1

Conc: 133



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:11
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04031.D
Inj. Date and Time: 04-JUN-2013 19:27
Instrument ID: BSMC5973.i
Client ID: CV1014A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

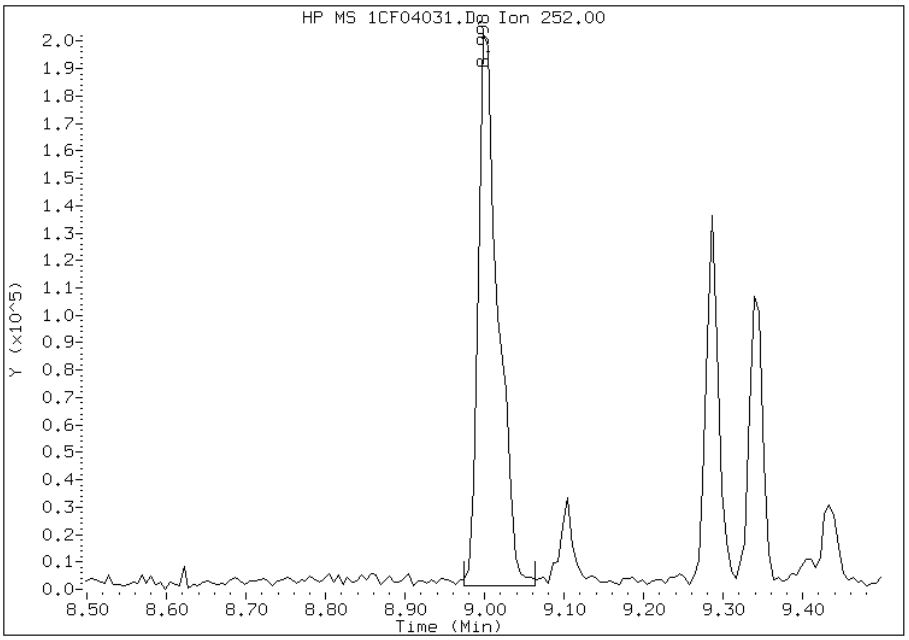
Processing Integration Results

RT: 9.00

Response: 352699

Amount: 4

Conc: 365



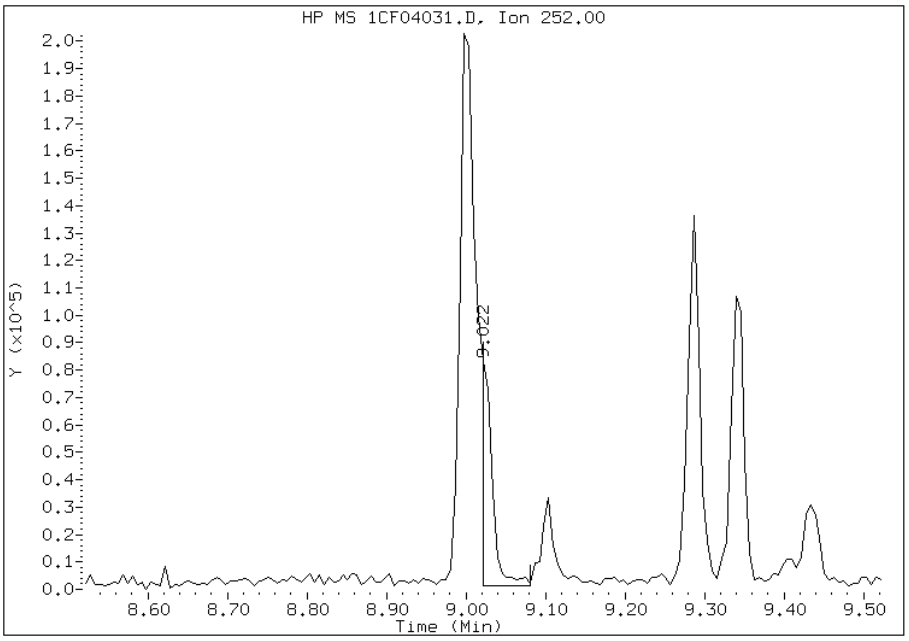
Manual Integration Results

RT: 9.02

Response: 76060

Amount: 1

Conc: 79



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:11
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04031.D
Inj. Date and Time: 04-JUN-2013 19:27
Instrument ID: BSMC5973.i
Client ID: CV1014A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

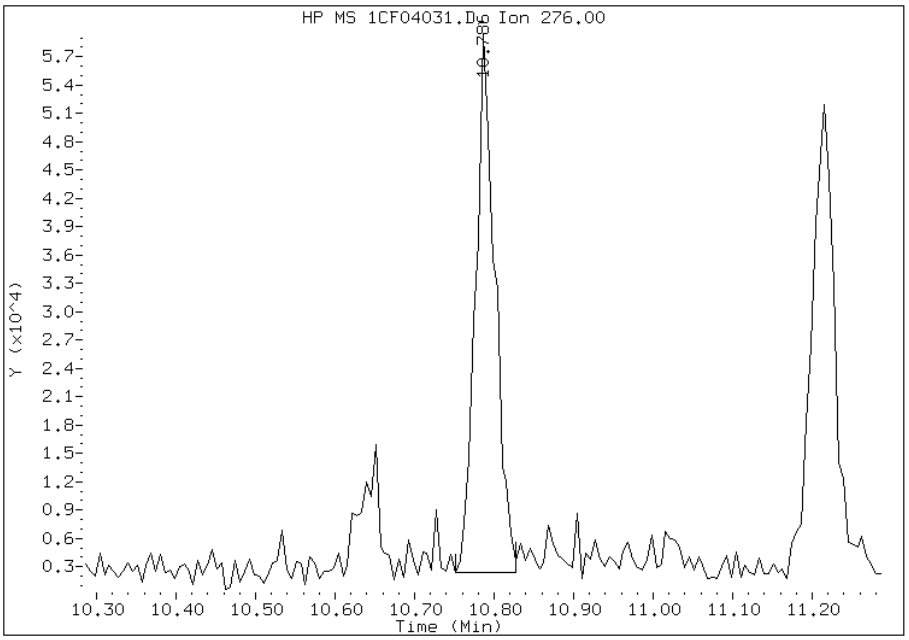
Processing Integration Results

RT: 10.79

Response: 96236

Amount: 1

Conc: 117



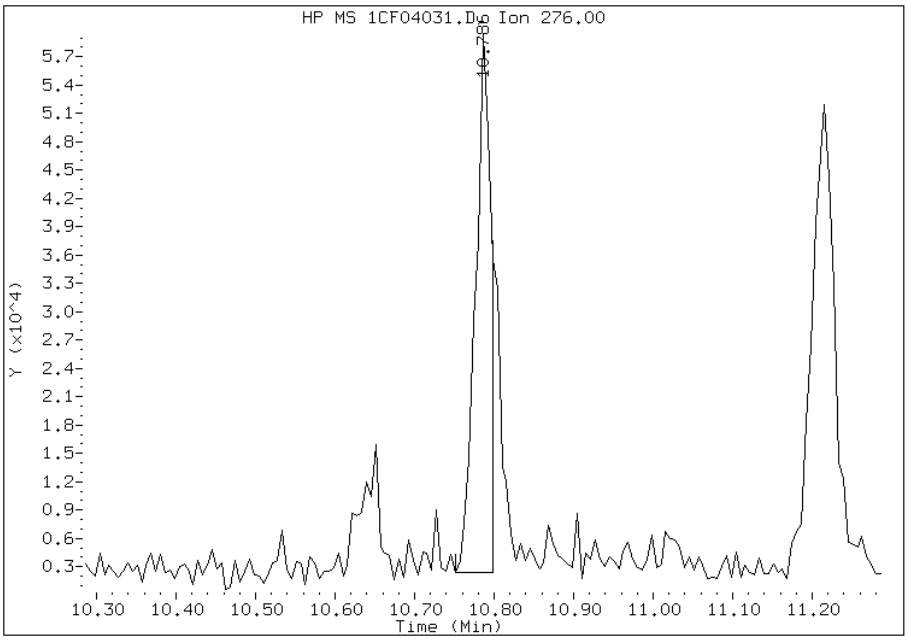
Manual Integration Results

RT: 10.79

Response: 76475

Amount: 1

Conc: 96



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:11
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV1014A-CSD | Lab Sample ID: 680-90723-22

Matrix: Solid | Lab File ID: 1CF04032.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 13:23

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.17(g) | Date Analyzed: 06/04/2013 19:46

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

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

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138098 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	14	J	47	5.9
120-12-7	Anthracene	22		9.8	4.9
56-55-3	Benzo[a]anthracene	140		9.4	4.6
50-32-8	Benzo[a]pyrene	99		12	6.1
205-99-2	Benzo[b]fluoranthene	180		14	7.2
191-24-2	Benzo[g,h,i]perylene	76		23	5.2
207-08-9	Benzo[k]fluoranthene	70		9.4	4.2
218-01-9	Chrysene	130		11	5.3
53-70-3	Dibenz(a,h)anthracene	8.0	J	23	4.8
206-44-0	Fluoranthene	200		23	4.7
86-73-7	Fluorene	12	J	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	66		23	8.3
90-12-0	1-Methylnaphthalene	37	J	47	5.2
91-57-6	2-Methylnaphthalene	57		47	8.3
91-20-3	Naphthalene	39	J	47	5.2
85-01-8	Phenanthrene	130		9.4	4.6
129-00-0	Pyrene	190		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	47		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04032.D
Lab Smp Id: 680-90723-A-22-A Client Smp ID: CV1014A-CSD
Inj Date : 04-JUN-2013 19:46
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-22-a
Misc Info : 680-90723-A-22-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 32
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	15.170	Weight Extracted
M	15.654	% 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	4.045	4.045	(1.000)	2681512	40.0000	
* 6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1827637	40.0000	
* 10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3273240	40.0000	
$ 14 o-Terphenyl	230	6.351	6.351	(1.040)	241334	4.73308	369.9092
* 18 Chrysene-d12	240	8.068	8.068	(1.000)	3189955	40.0000	
* 23 Perylene-d12	264	9.409	9.409	(1.000)	3242024	40.0000	
2 Naphthalene	128	4.057	4.057	(1.003)	37562	0.49638	38.7940
3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	30373	0.72363	56.5547
4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	19735	0.47789	37.3492
5 Acenaphthylene	152	5.045	5.045	(0.983)	12485	0.17820	13.9266
9 Fluorene	166	5.480	5.480	(1.068)	8696	0.15512	12.1228(Q)
11 Phenanthrene	178	6.115	6.121	(1.002)	166670	1.72348	134.6970
12 Anthracene	178	6.151	6.157	(1.008)	25540	0.28507	22.2795
13 Carbazole	167	6.257	6.257	(1.025)	27822	0.44733	34.9607

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.968	6.968	(1.142)	254252	2.57220	201.0277
16 Pyrene	202	7.139	7.145	(0.885)	205495	2.38563	186.4463
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	159348	1.81157	141.5812
19 Chrysene	228	8.086	8.092	(1.002)	145522	1.64318	128.4209
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.956)	184739	2.31924	181.2579(M)
21 Benzo(k)fluoranthene	252	9.015	9.027	(0.958)	79314	0.89151	69.6749(QM)
22 Benzo(a)pyrene	252	9.339	9.345	(0.992)	94668	1.26288	98.6988
24 Indeno(1,2,3-cd)pyrene	276	10.792	10.792	(1.147)	59500	0.84463	66.0114
25 Dibenzo(a,h)anthracene	278	10.803	10.815	(1.148)	7080	0.10232	7.9963(QH)
26 Benzo(g,h,i)perylene	276	11.209	11.215	(1.191)	73626	0.97754	76.3990

QC Flag Legend

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

Data File: 1CF04032.D

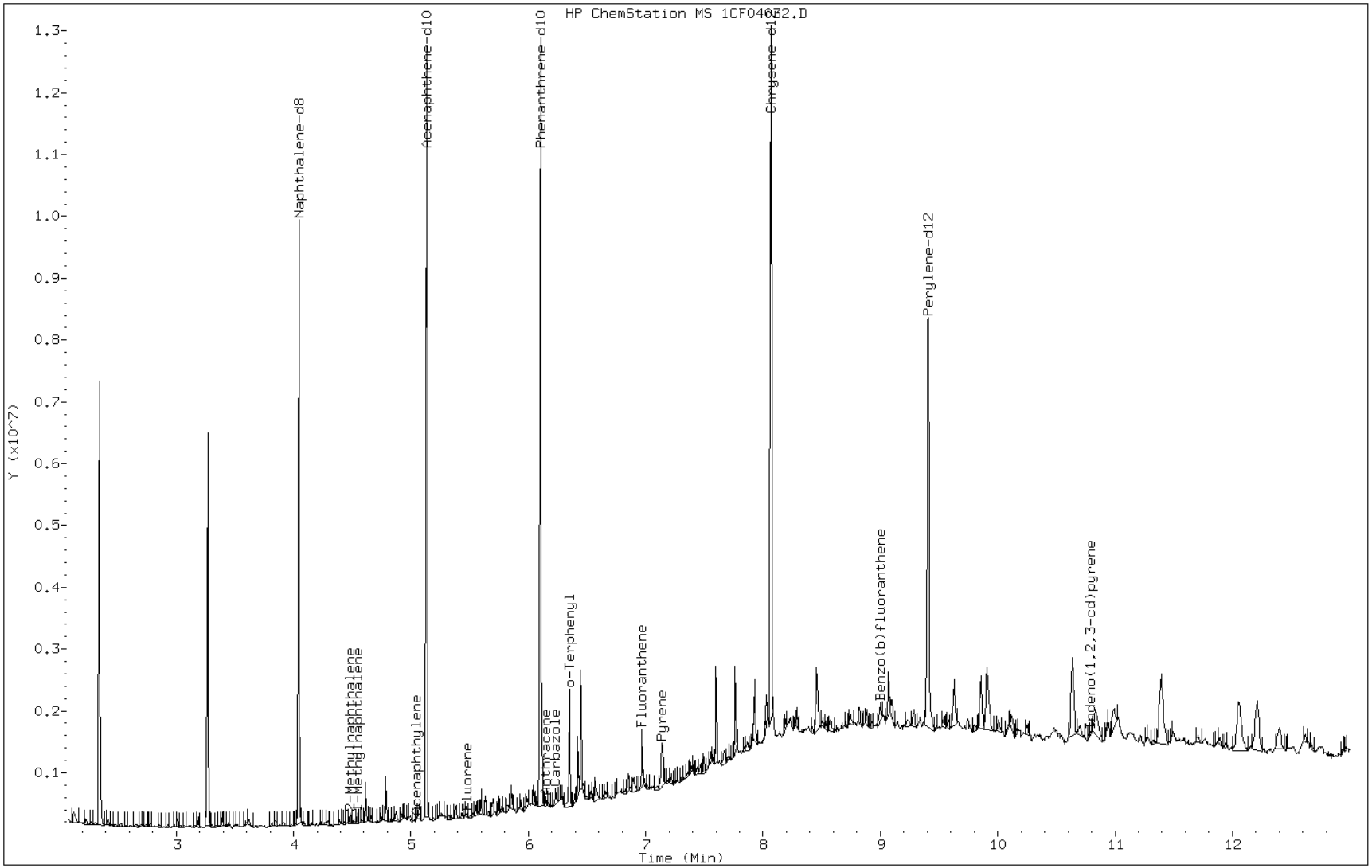
Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD

Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a

Operator: SCC



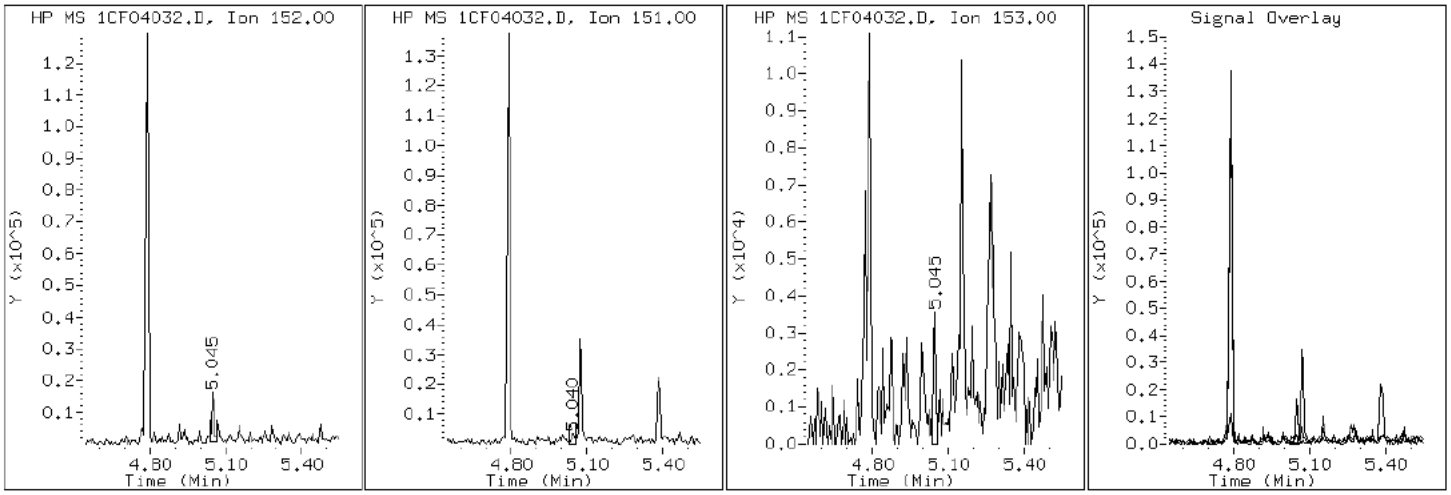
Data File: 1CF04032.D

Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a Operator: SCC

5 Acenaphthylene



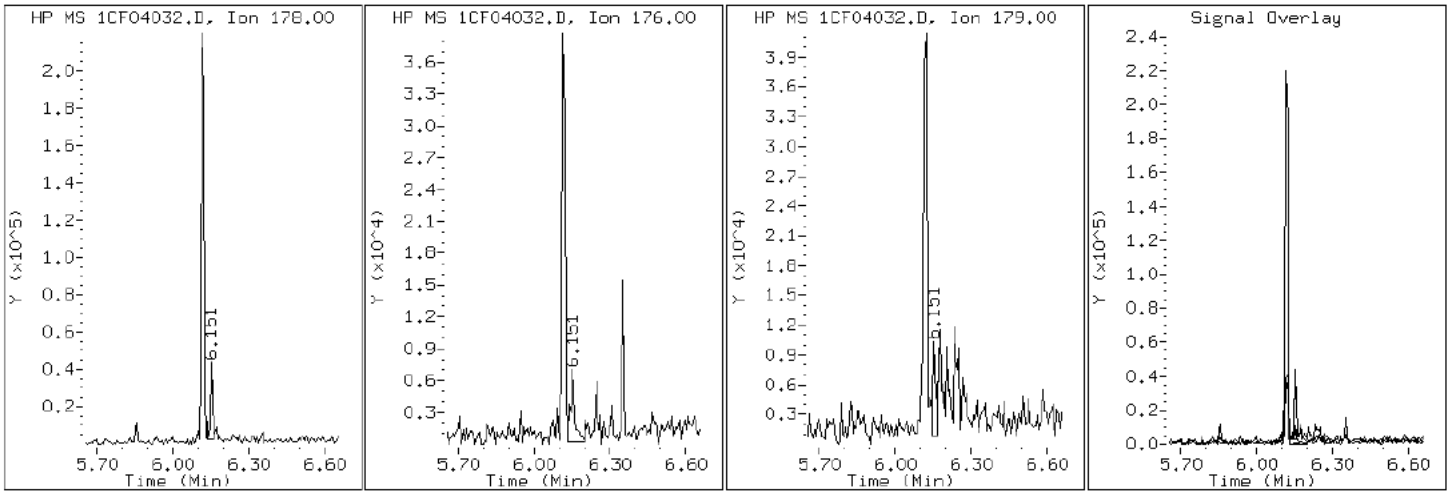
Data File: 1CF04032.D

Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a Operator: SCC

12 Anthracene



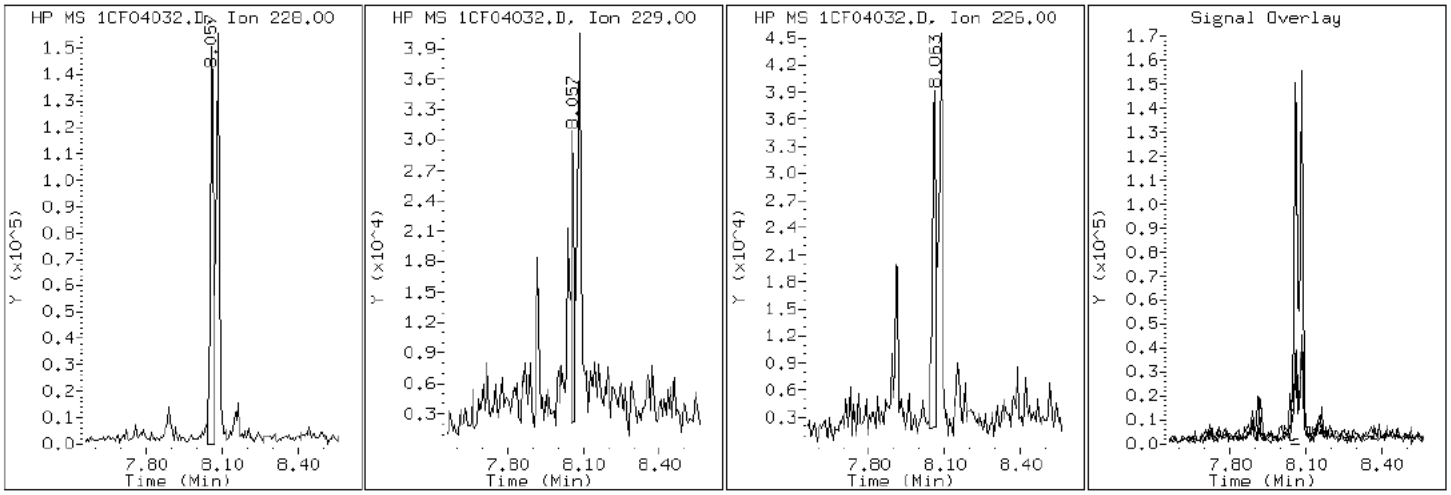
Data File: 1CF04032.D

Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a Operator: SCC

17 Benzo(a)anthracene



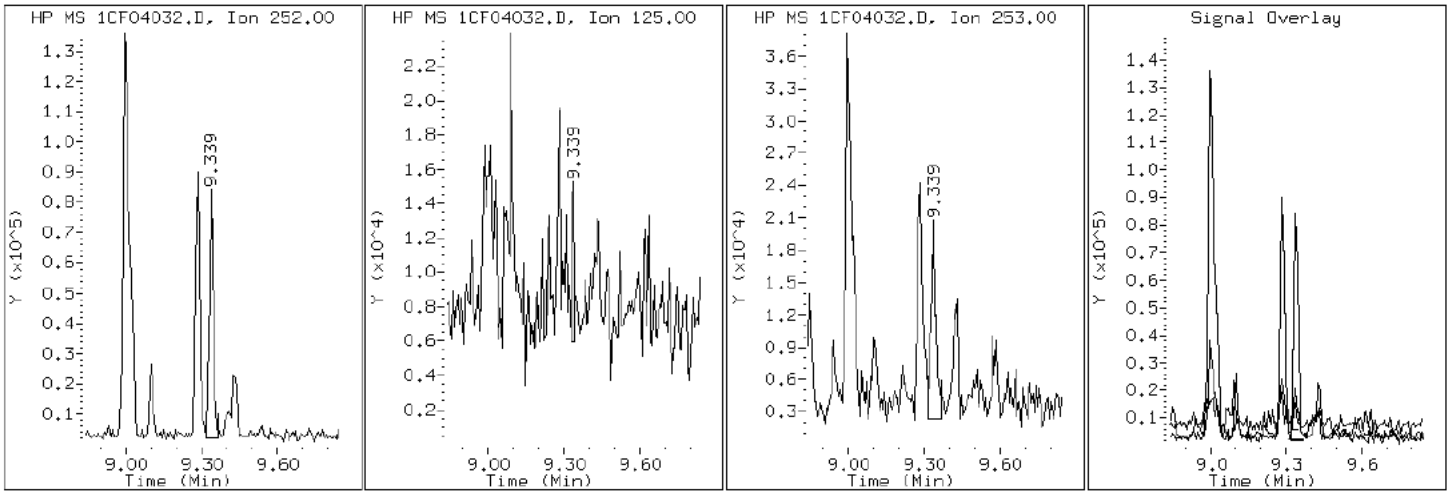
Data File: 1CF04032.D

Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a Operator: SCC

22 Benzo(a)pyrene



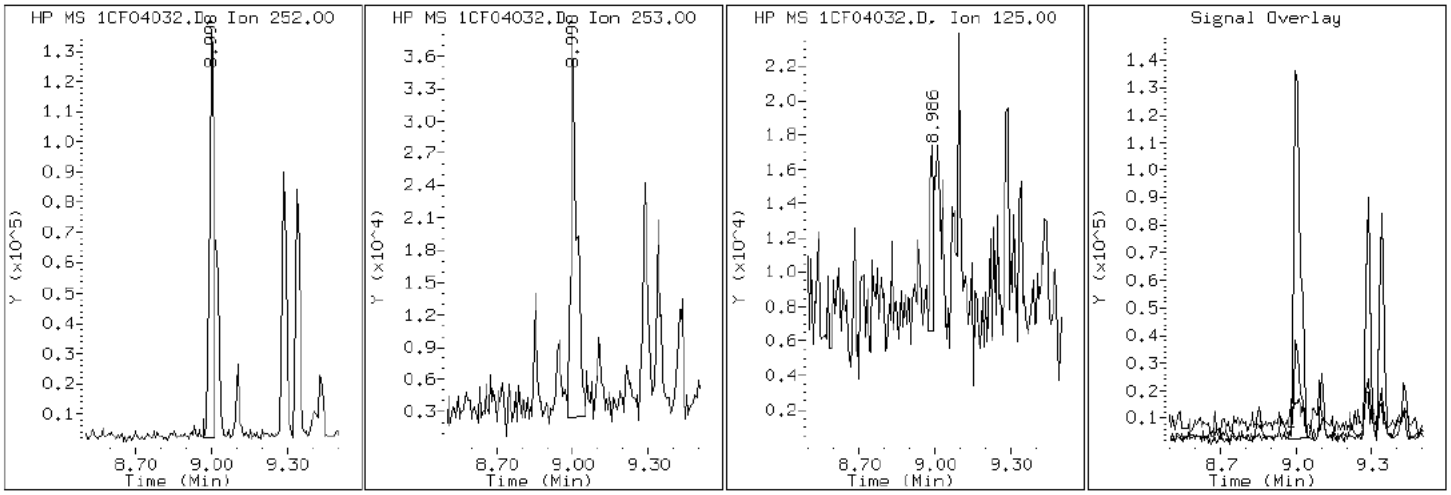
Data File: 1CF04032.D

Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a Operator: SCC

20 Benzo(b)fluoranthene



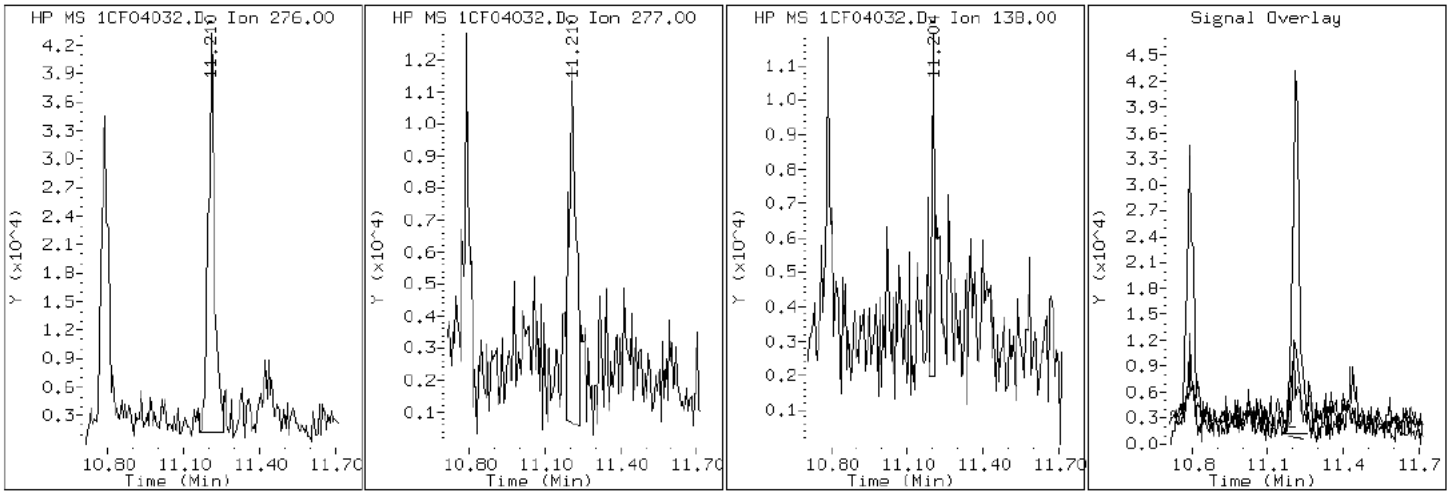
Data File: 1CF04032.D

Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a Operator: SCC

26 Benzo(g,h,i)perylene



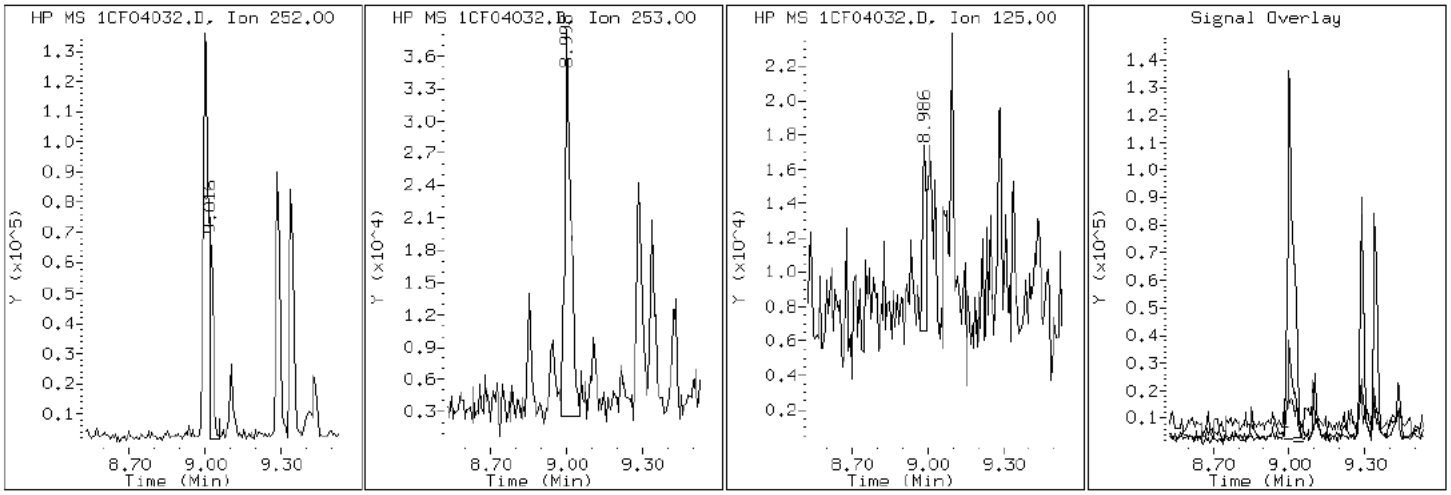
Data File: 1CF04032.D

Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a Operator: SCC

21 Benzo(k)fluoranthene



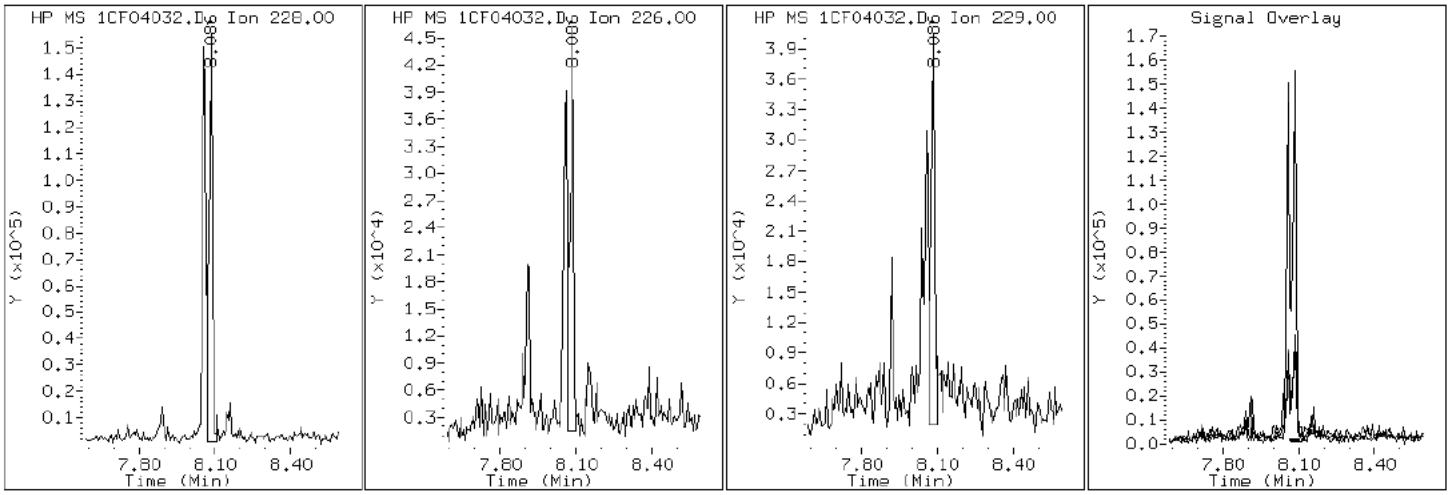
Data File: 1CF04032.D

Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a Operator: SCC

19 Chrysene



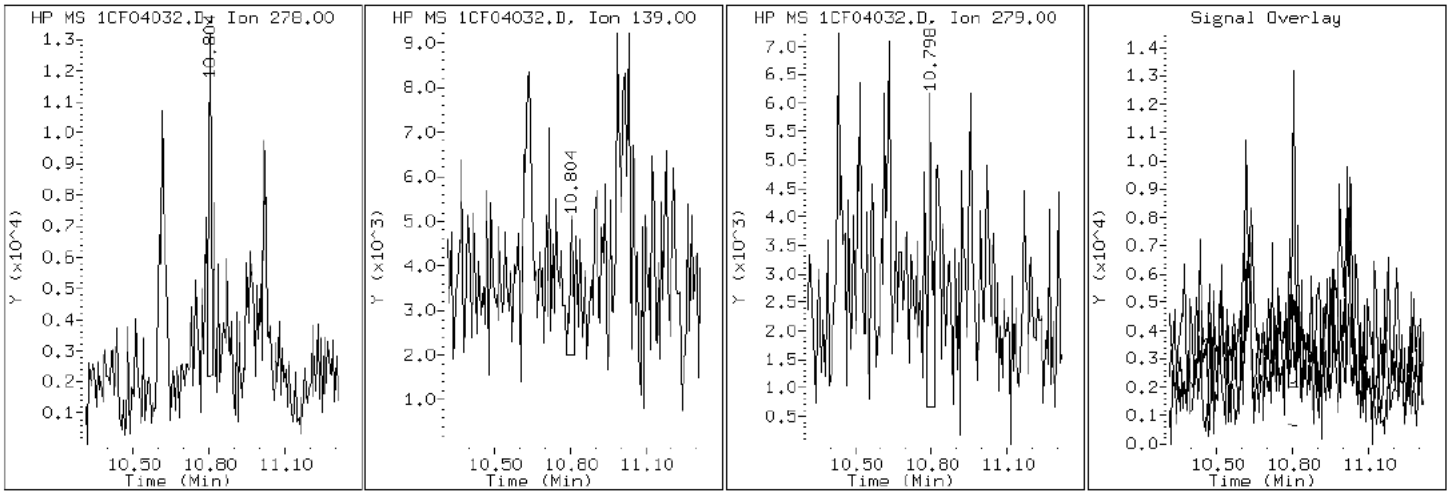
Data File: 1CF04032.D

Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a Operator: SCC

25 Dibenzo(a,h)anthracene



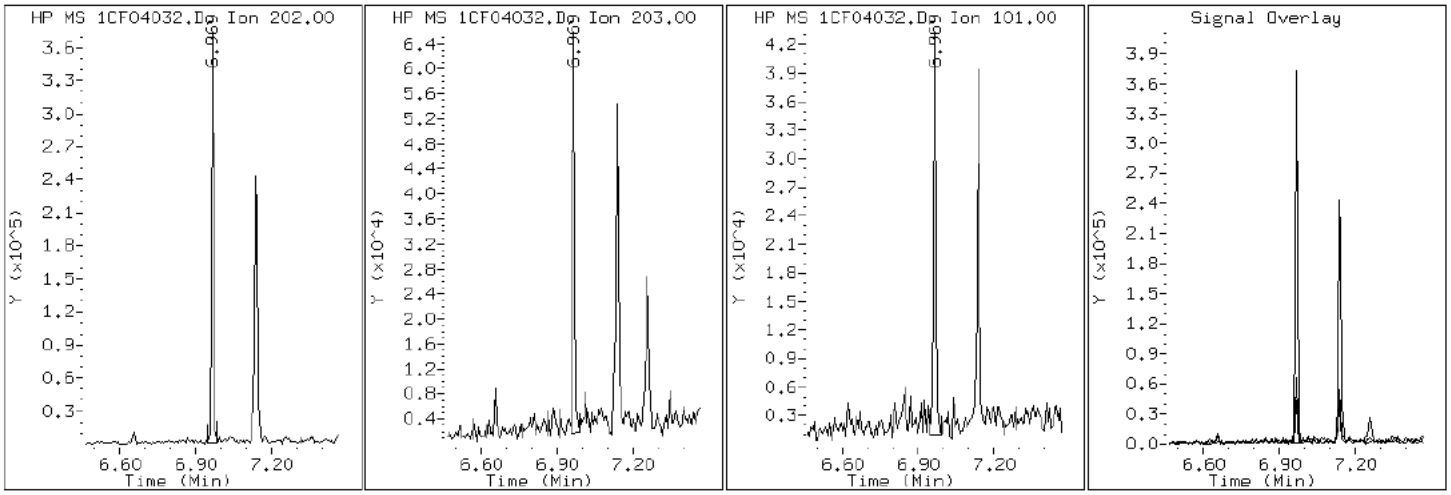
Data File: 1CF04032.D

Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a Operator: SCC

15 Fluoranthene



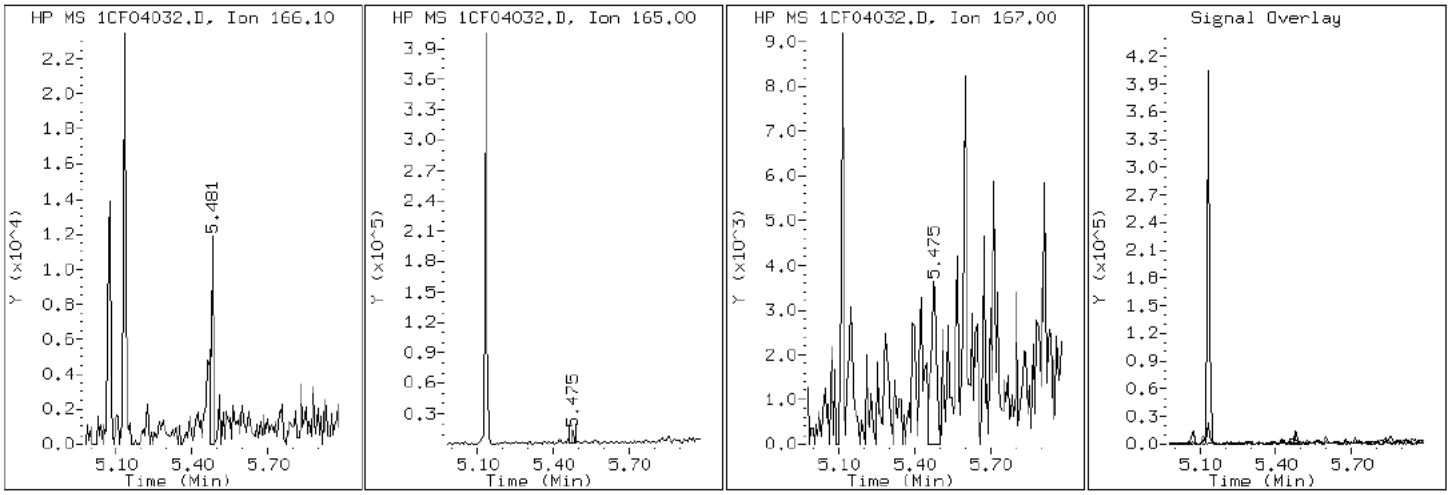
Data File: 1CF04032.D

Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a Operator: SCC

9 Fluorene



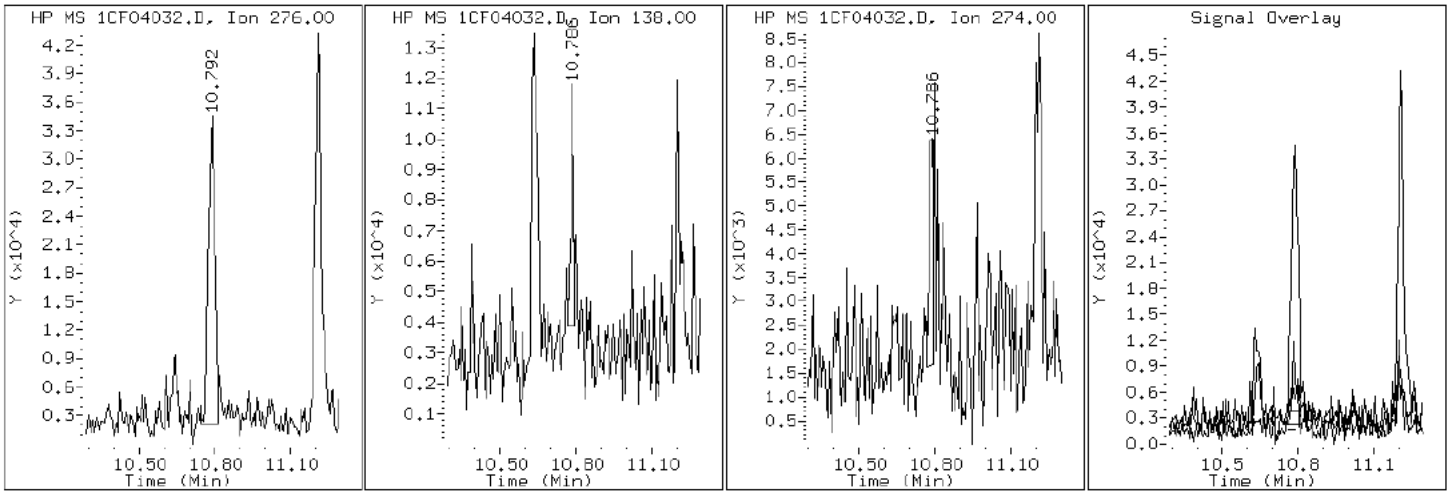
Data File: 1CF04032.D

Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a Operator: SCC

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



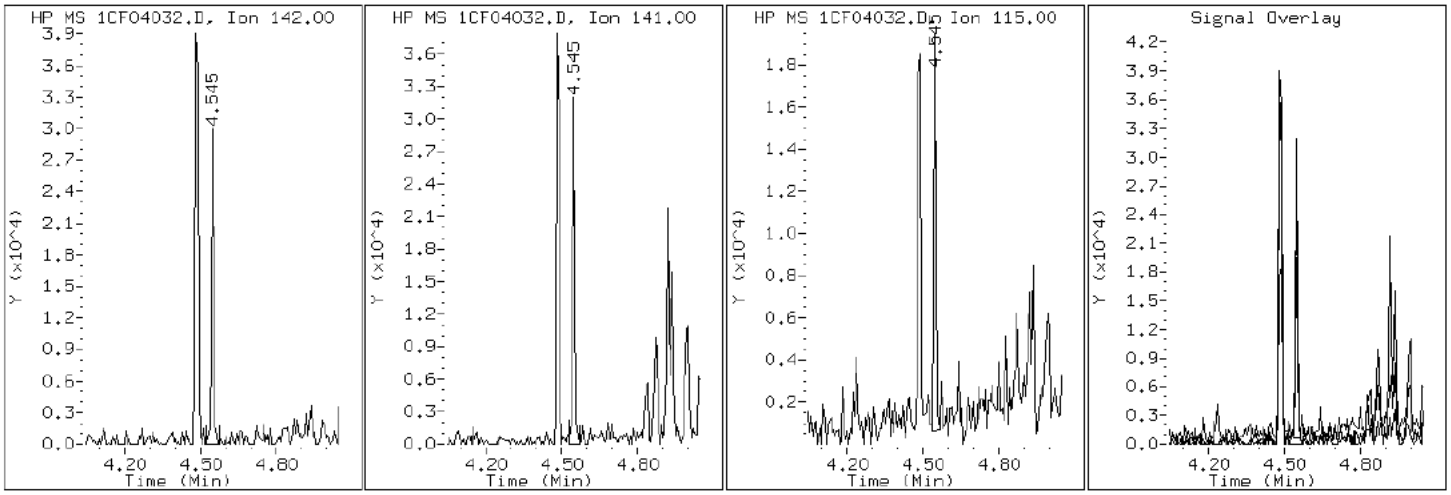
Data File: 1CF04032.D

Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a Operator: SCC

4 1-Methylnaphthalene



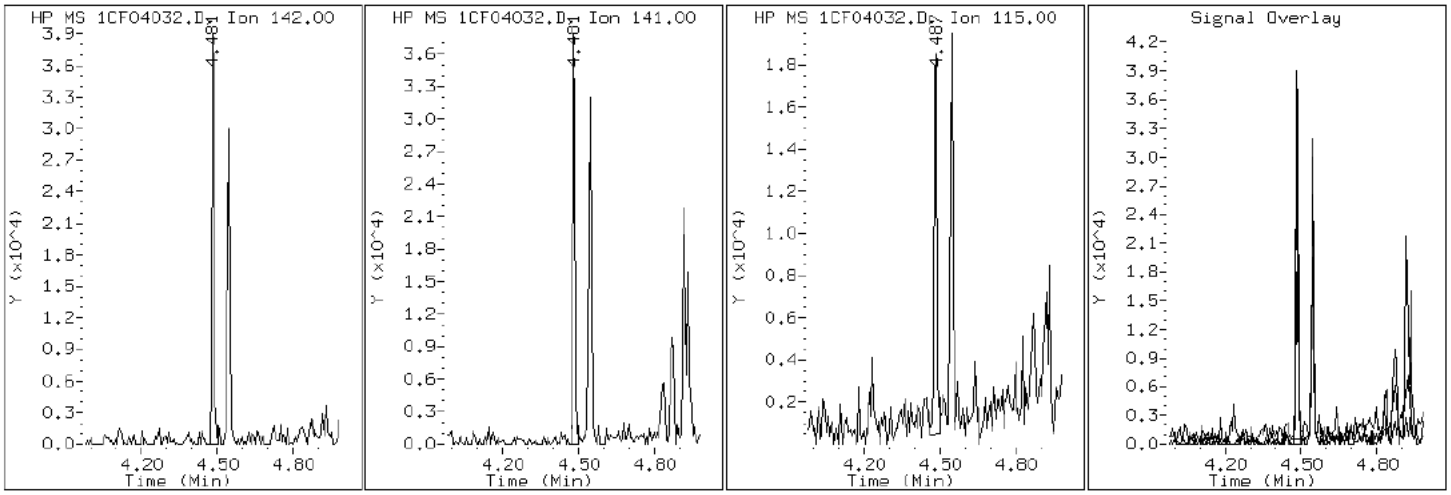
Data File: 1CF04032.D

Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a Operator: SCC

3 2-Methylnaphthalene



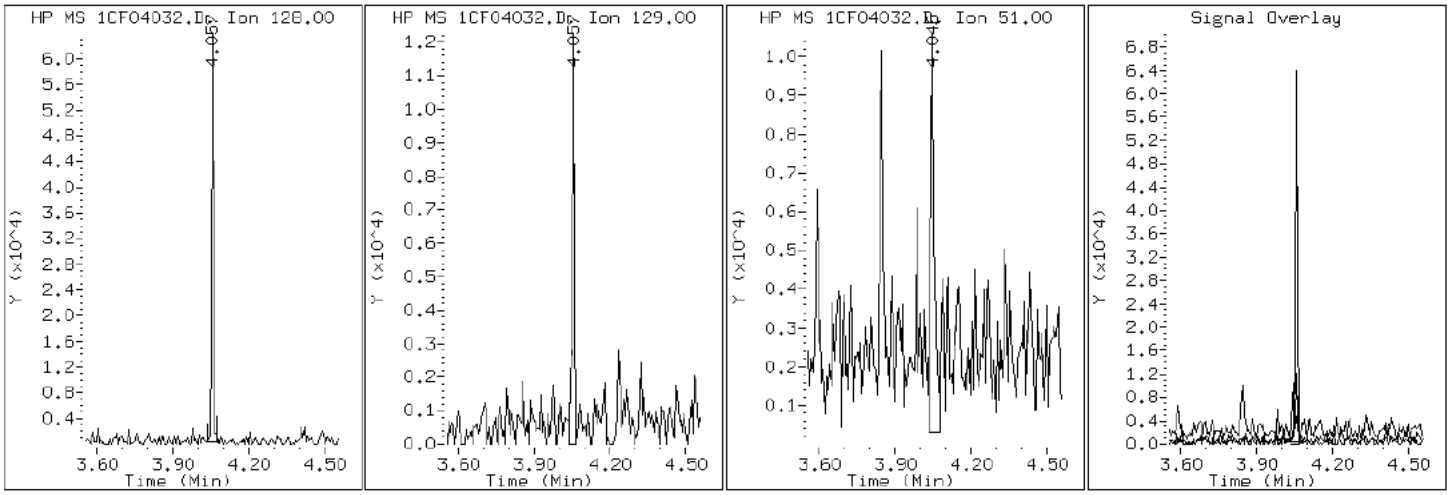
Data File: 1CF04032.D

Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a Operator: SCC

2 Naphthalene



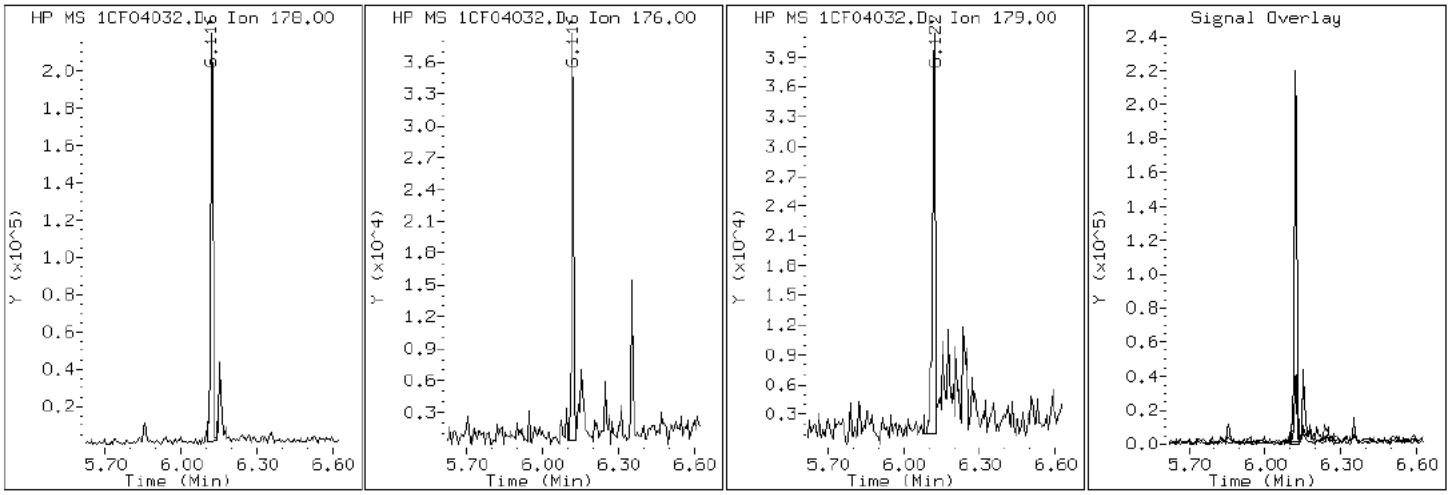
Data File: 1CF04032.D

Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a Operator: SCC

11 Phenanthrene



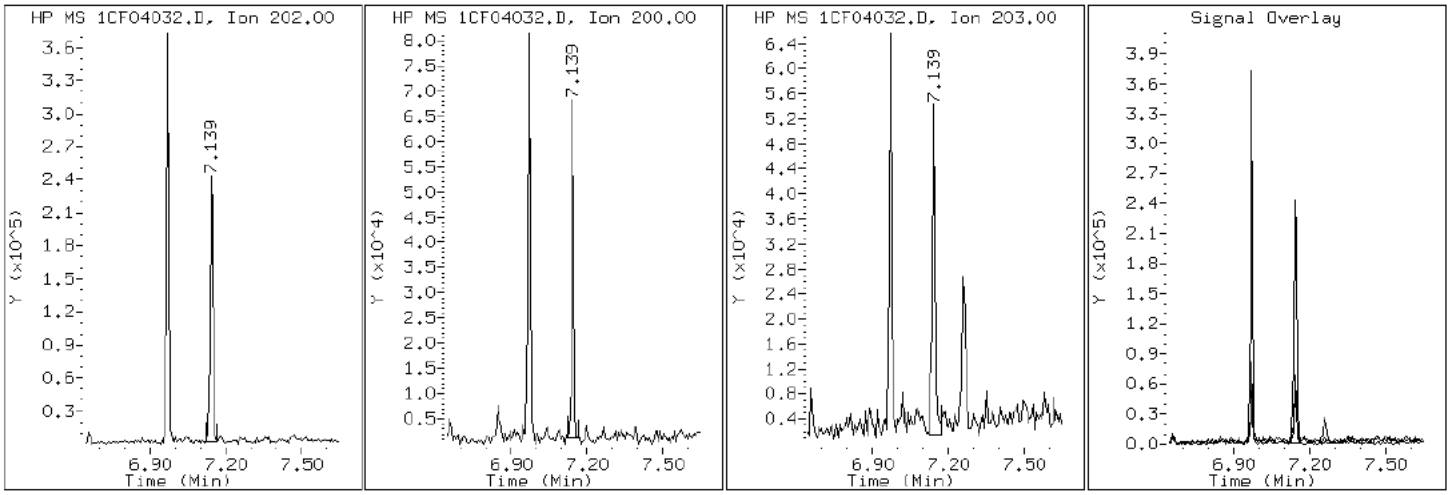
Data File: 1CF04032.D

Date: 04-JUN-2013 19:46

Client ID: CV1014A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-22-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04032.D
Inj. Date and Time: 04-JUN-2013 19:46
Instrument ID: BSMC5973.i
Client ID: CV1014A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

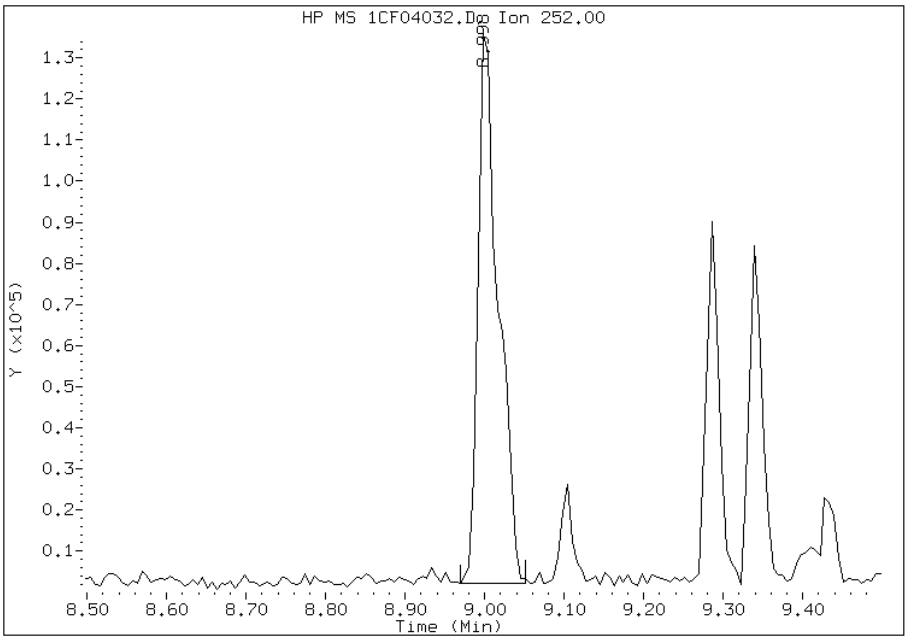
Processing Integration Results

RT: 9.00

Response: 238482

Amount: 3

Conc: 234



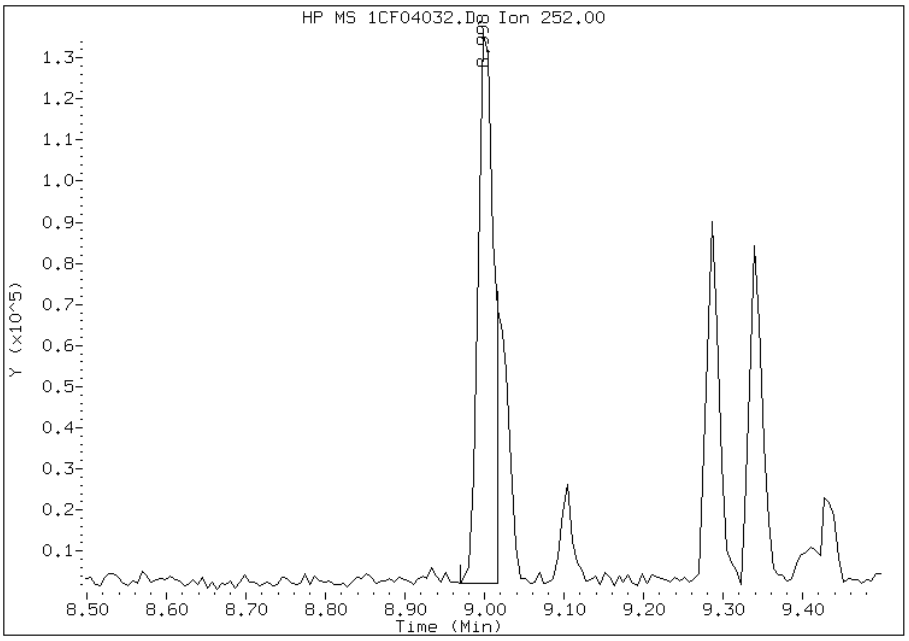
Manual Integration Results

RT: 9.00

Response: 184739

Amount: 2

Conc: 181



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:12
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF04032.D
Inj. Date and Time: 04-JUN-2013 19:46
Instrument ID: BSMC5973.i
Client ID: CV1014A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

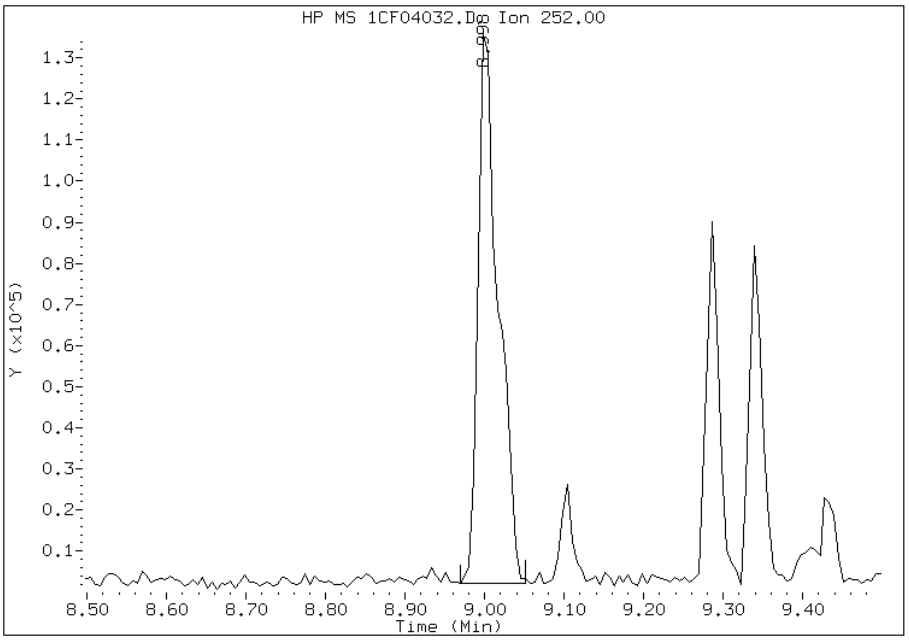
Processing Integration Results

RT: 9.00

Response: 238175

Amount: 3

Conc: 209



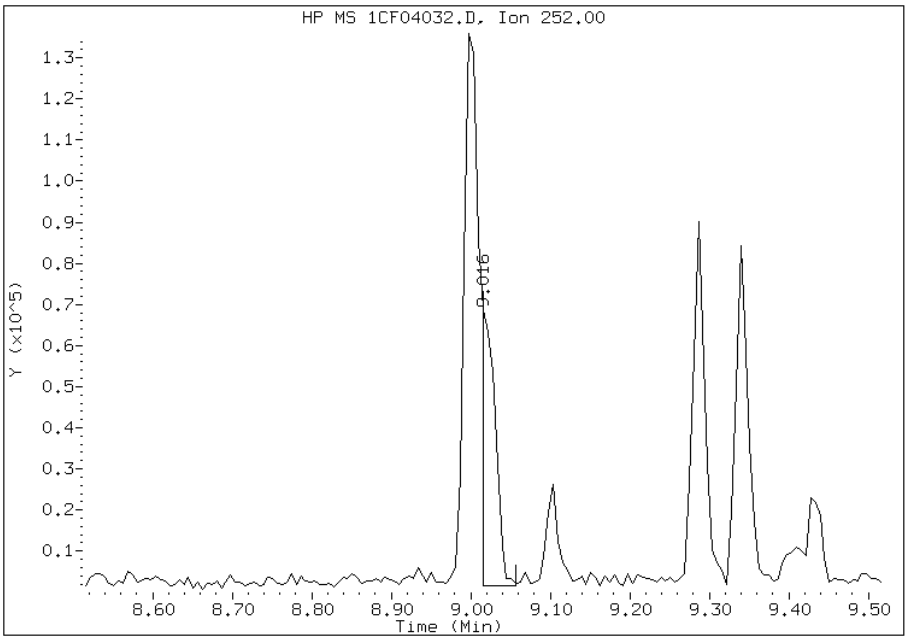
Manual Integration Results

RT: 9.02

Response: 79314

Amount: 1

Conc: 70



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:12
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV1014B-CS | Lab Sample ID: 680-90723-23

Matrix: Solid | Lab File ID: 1CF05013.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 13:34

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 14.97(g) | Date Analyzed: 06/05/2013 14:41

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

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

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

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	96
208-96-8	Acenaphthylene	190	U	190	24
120-12-7	Anthracene	40	U	40	20
56-55-3	Benzo[a]anthracene	93		38	19
50-32-8	Benzo[a]pyrene	66		50	25
205-99-2	Benzo[b]fluoranthene	82		59	29
191-24-2	Benzo[g,h,i]perylene	42	J	96	21
207-08-9	Benzo[k]fluoranthene	17	J	38	17
218-01-9	Chrysene	41	J	43	22
53-70-3	Dibenz(a,h)anthracene	96	U	96	20
206-44-0	Fluoranthene	67	J	96	19
86-73-7	Fluorene	96	U	96	20
193-39-5	Indeno[1,2,3-cd]pyrene	96	U	96	34
90-12-0	1-Methylnaphthalene	95	J	190	21
91-57-6	2-Methylnaphthalene	100	J	190	34
91-20-3	Naphthalene	58	J	190	21
85-01-8	Phenanthrene	76		38	19
129-00-0	Pyrene	54	J	96	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05013.D
Lab Smp Id: 680-90723-A-23-A Client Smp ID: CV1014B-CS
Inj Date : 05-JUN-2013 14:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-23-a
Misc Info : 680-90723-A-23-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 13
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	14.970	Weight Extracted
M	16.593	% 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	4.039	4.039	(1.000)	3053598	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	2129100	40.0000	
* 10 Phenanthrene-d10	188	6.098	6.092	(1.000)	4056656	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.041)	81684	1.29262	414.1023
* 18 Chrysene-d12	240	8.068	8.056	(1.000)	4521891	40.0000	
* 23 Perylene-d12	264	9.403	9.392	(1.000)	4362176	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	15527	0.18019	57.7239(Q)
3 2-Methylnaphthalene	142	4.480	4.474	(1.109)	15502	0.32433	103.9014
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	13887	0.29530	94.6029
5 Acenaphthylene	152	5.039	5.039	(0.983)	4166	0.05104	16.3514
9 Fluorene	166	5.468	5.468	(1.067)	2782	0.04260	13.6465(Q)
11 Phenanthrene	178	6.115	6.110	(1.003)	28283	0.23599	75.5996
12 Anthracene	178	6.145	6.145	(1.008)	6517	0.05869	18.8029
13 Carbazole	167	6.257	6.251	(1.026)	5508	0.16795	53.8037(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.962	6.962	(1.142)	25697	0.20976	67.1998
16 Pyrene	202	7.133	7.133	(0.884)	20697	0.16950	54.3011
17 Benzo(a)anthracene	228	8.074	8.051	(1.001)	36261	0.29081	93.1638
19 Chrysene	228	8.086	8.074	(1.002)	15913	0.12676	40.6076
20 Benzo(b)fluoranthene	252	9.003	8.986	(0.957)	27570	0.25724	82.4086
21 Benzo(k)fluoranthene	252	9.027	9.009	(0.960)	6377	0.05327	17.0663(Q)
22 Benzo(a)pyrene	252	9.339	9.327	(0.993)	11650	0.20706	66.3318
26 Benzo(g,h,i)perylene	276	11.192	11.186	(1.190)	13432	0.13254	42.4614(M)

QC Flag Legend

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

Data File: 1CF05013.D

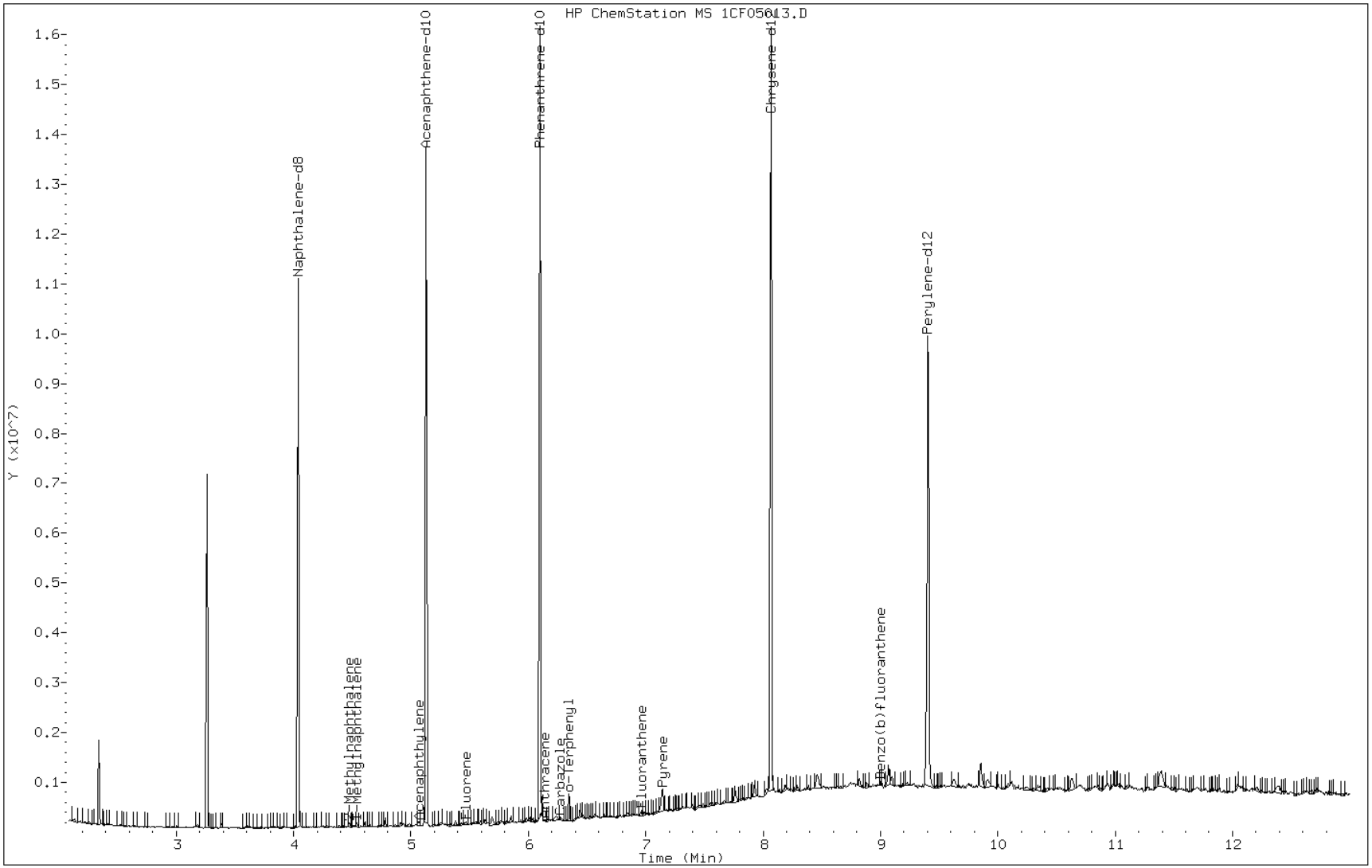
Date: 05-JUN-2013 14:41

Client ID: CV1014B-CS

Instrument: BSMC5973.i

Sample Info: 680-90723-a-23-a

Operator: SCC



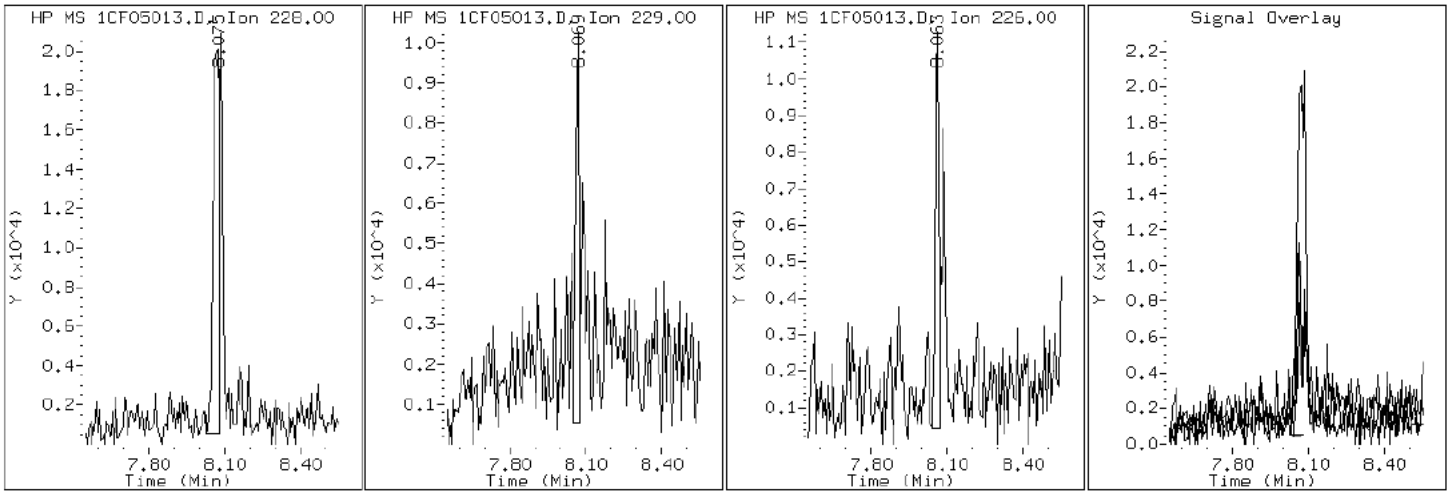
Data File: 1CF05013.D

Date: 05-JUN-2013 14:41

Client ID: CV1014B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-23-a Operator: SCC

17 Benzo(a)anthracene



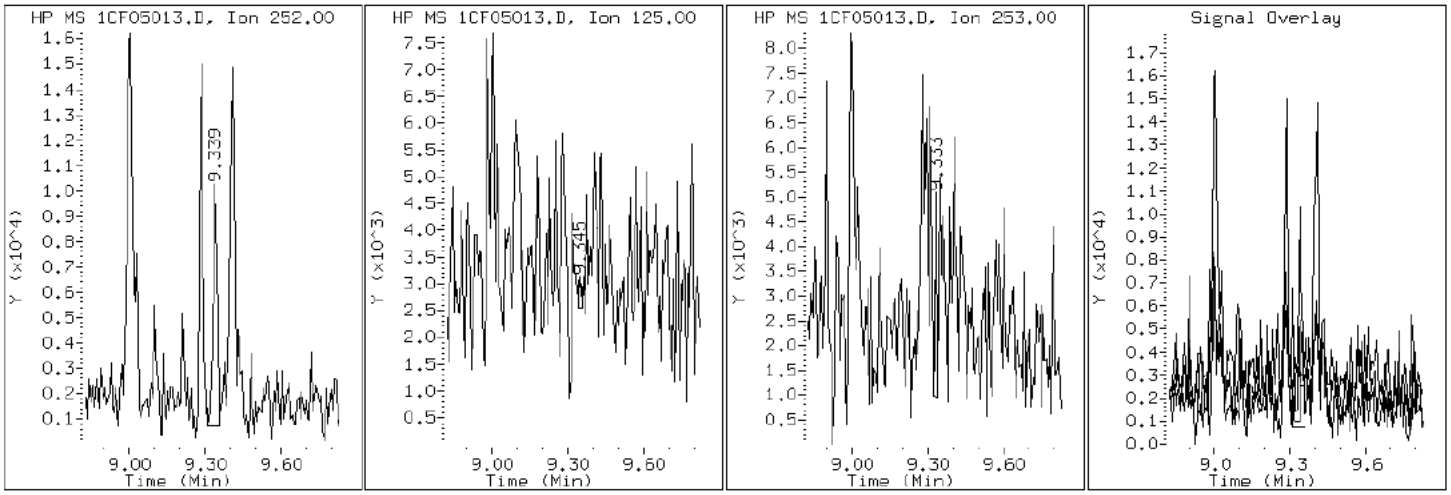
Data File: 1CF05013.D

Date: 05-JUN-2013 14:41

Client ID: CV1014B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-23-a Operator: SCC

22 Benzo(a)pyrene



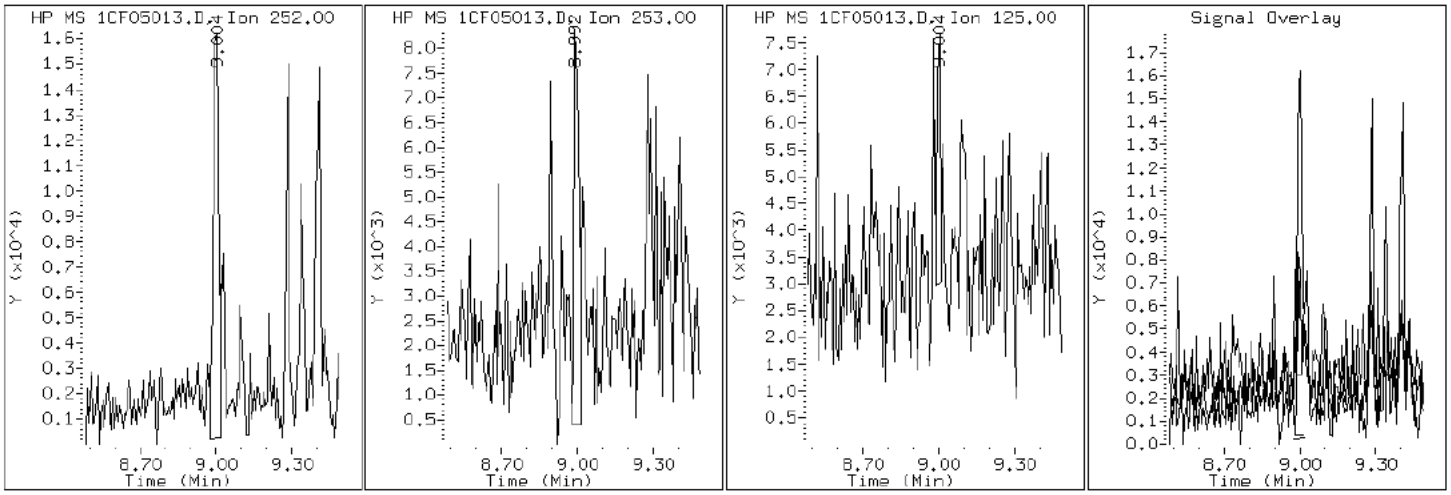
Data File: 1CF05013.D

Date: 05-JUN-2013 14:41

Client ID: CV1014B-CS | Instrument: BSMC5973.i

Sample Info: 680-90723-a-23-a | Operator: SCC

20 Benzo(b)fluoranthene



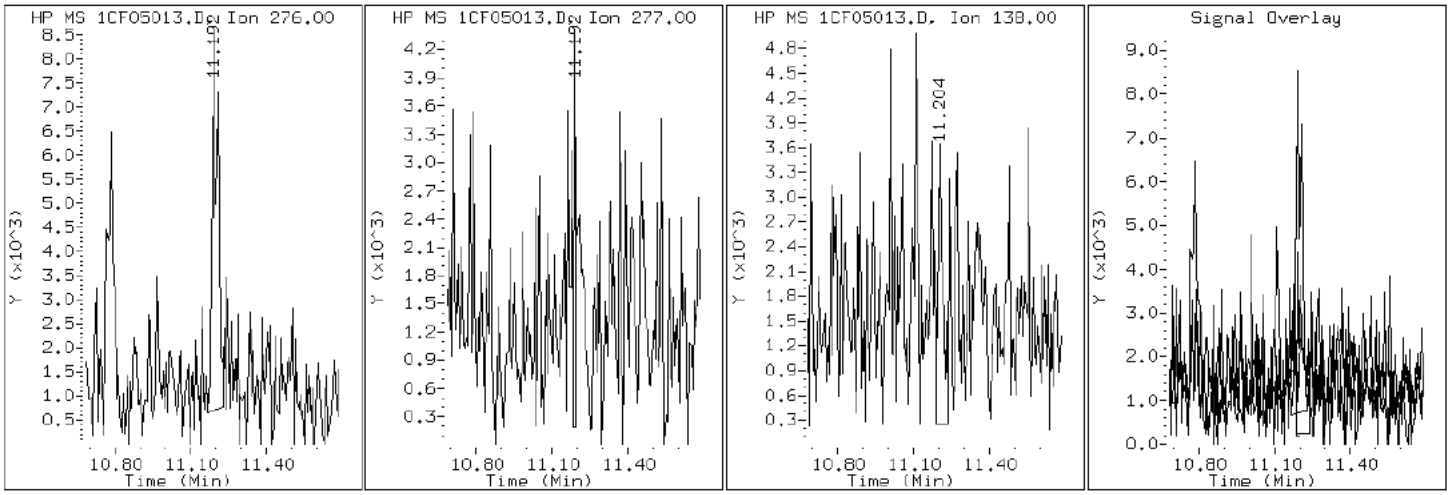
Data File: 1CF05013.D

Date: 05-JUN-2013 14:41

Client ID: CV1014B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-23-a Operator: SCC

26 Benzo(g,h,i)perylene



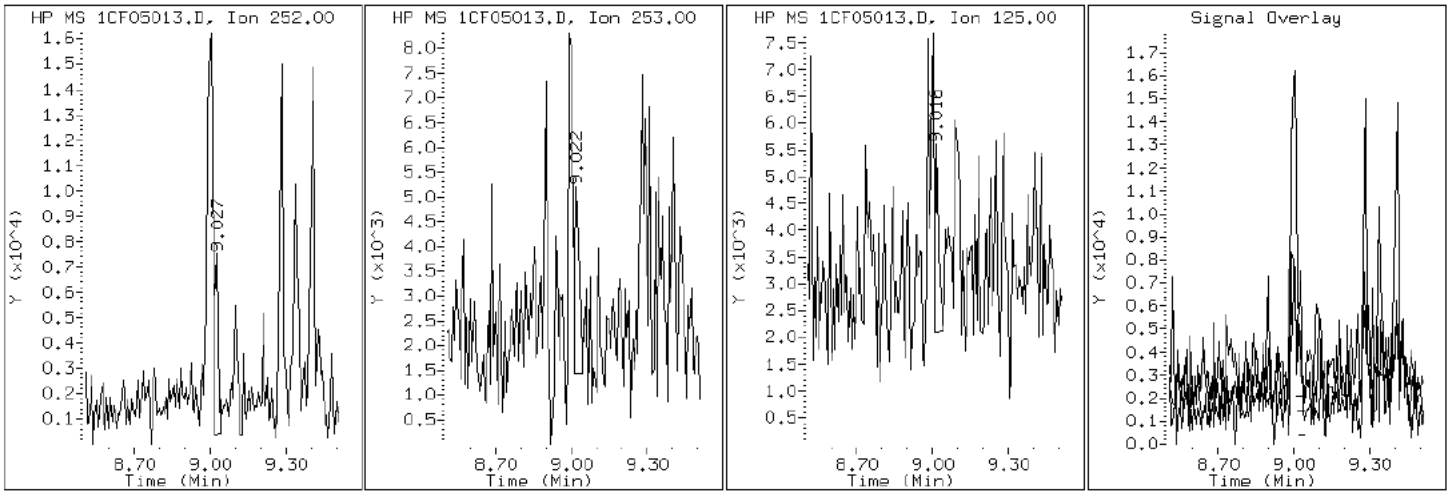
Data File: 1CF05013.D

Date: 05-JUN-2013 14:41

Client ID: CV1014B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-23-a Operator: SCC

21 Benzo(k)fluoranthene



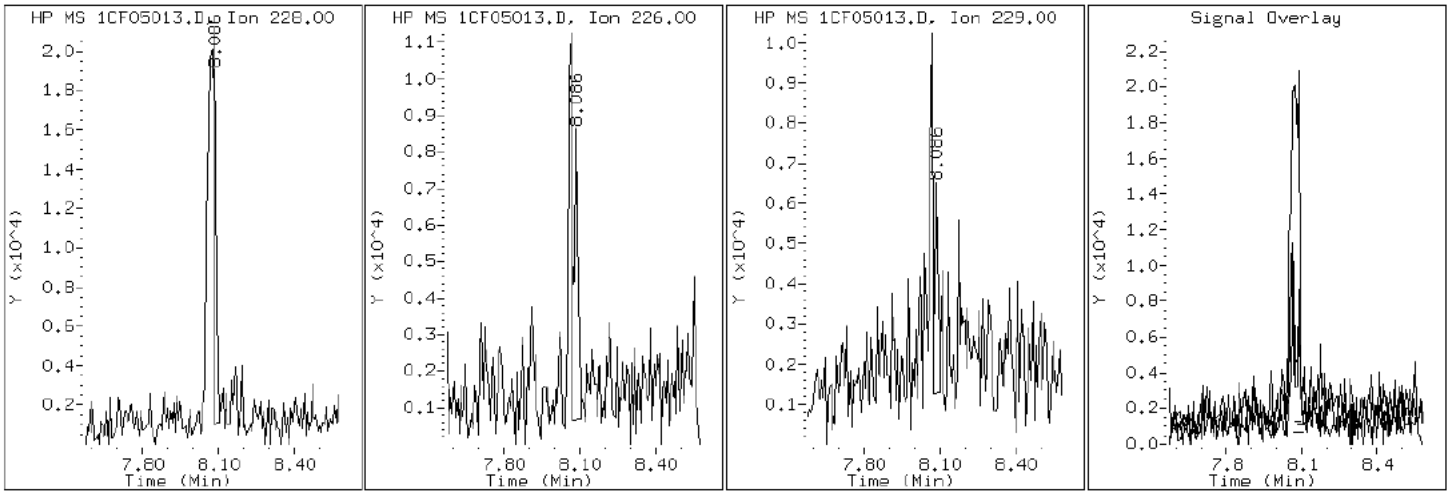
Data File: 1CF05013.D

Date: 05-JUN-2013 14:41

Client ID: CV1014B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-23-a Operator: SCC

19 Chrysene



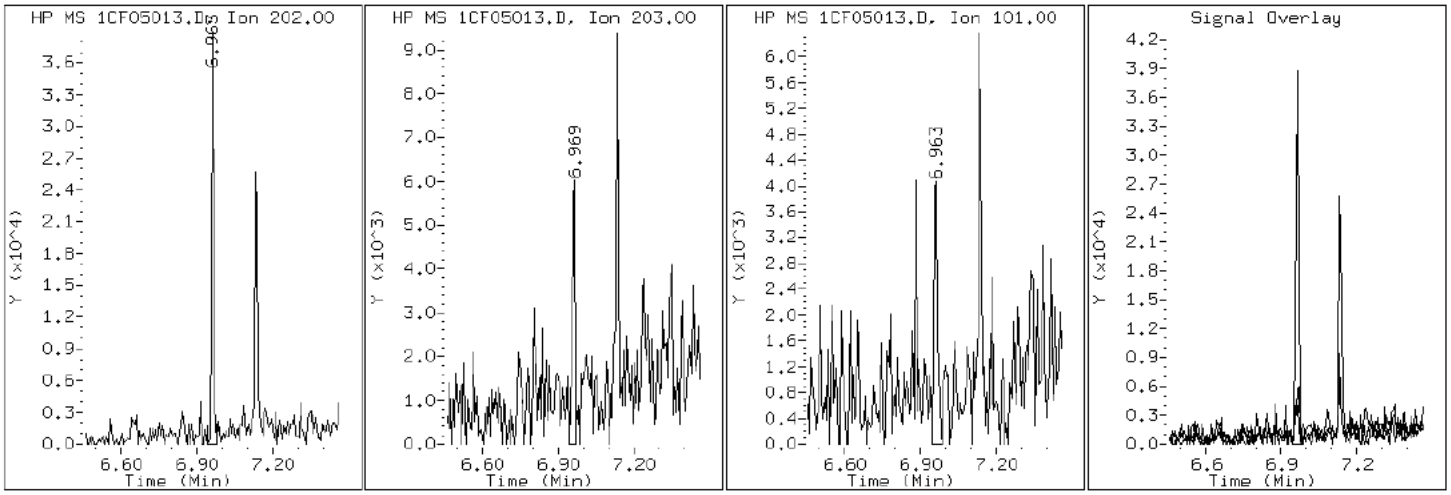
Data File: 1CF05013.D

Date: 05-JUN-2013 14:41

Client ID: CV1014B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-23-a Operator: SCC

15 Fluoranthene



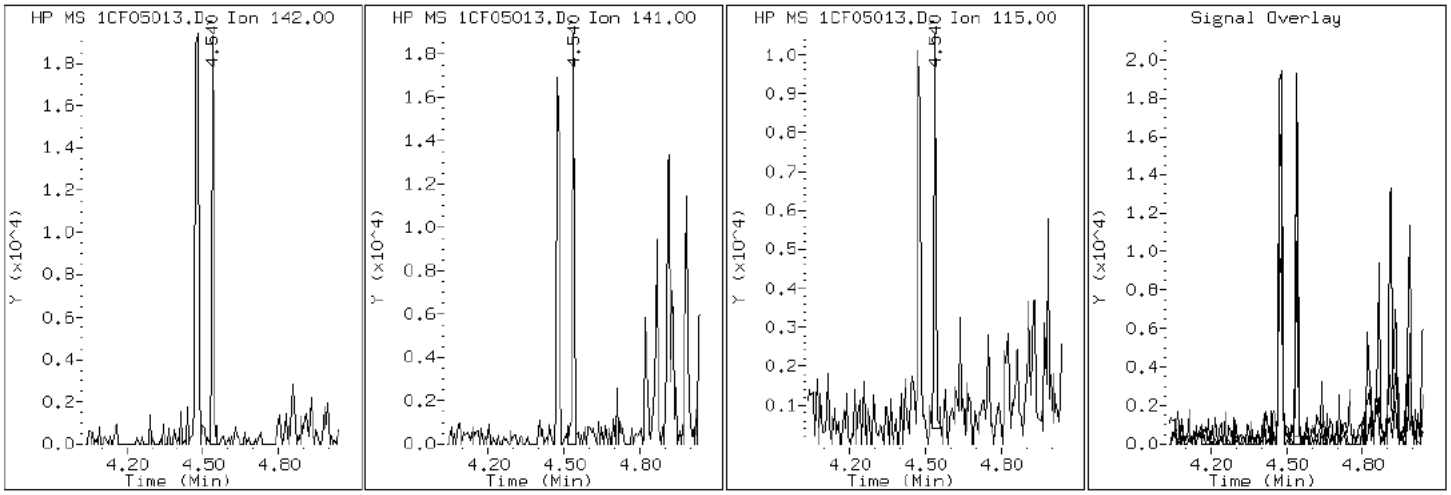
Data File: 1CF05013.D

Date: 05-JUN-2013 14:41

Client ID: CV1014B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-23-a Operator: SCC

4 1-Methylnaphthalene



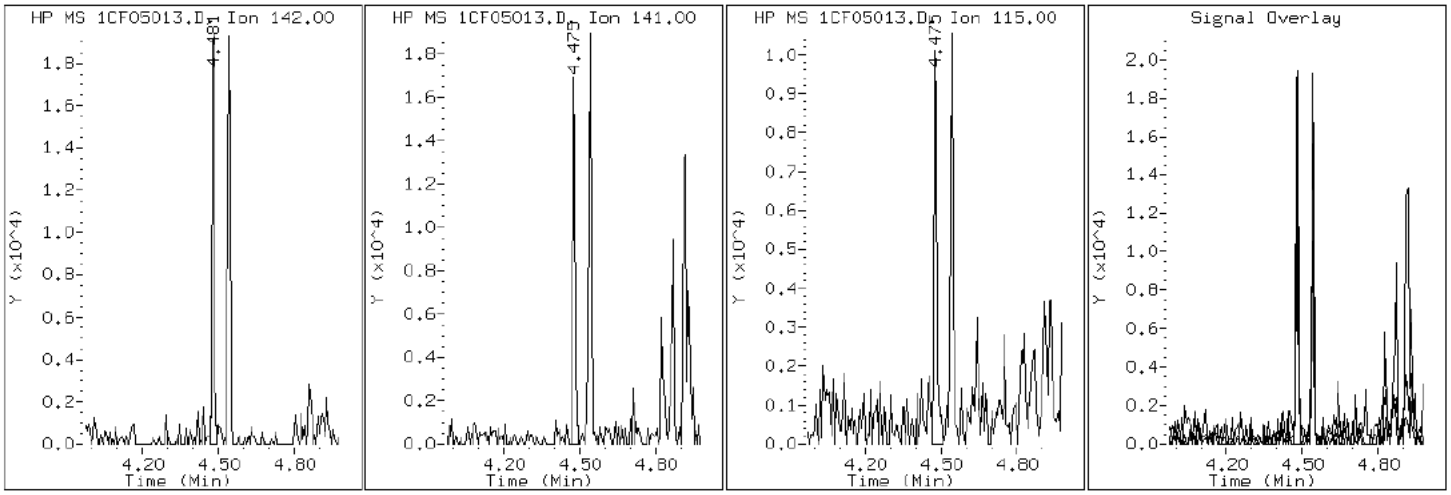
Data File: 1CF05013.D

Date: 05-JUN-2013 14:41

Client ID: CV1014B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-23-a Operator: SCC

3 2-Methylnaphthalene



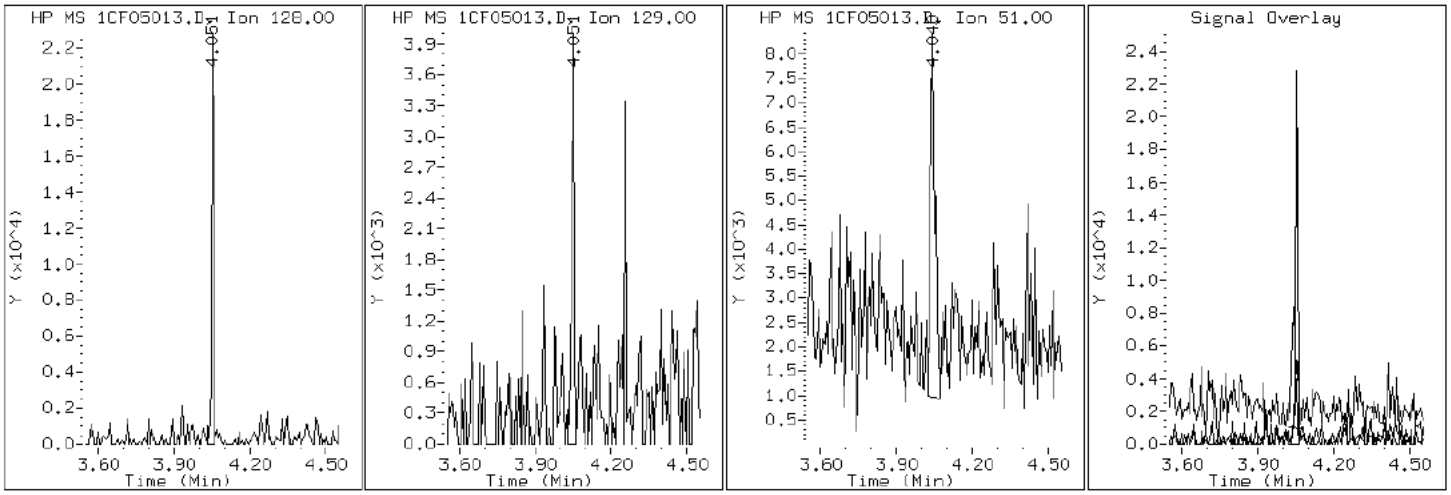
Data File: 1CF05013.D

Date: 05-JUN-2013 14:41

Client ID: CV1014B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-23-a Operator: SCC

2 Naphthalene



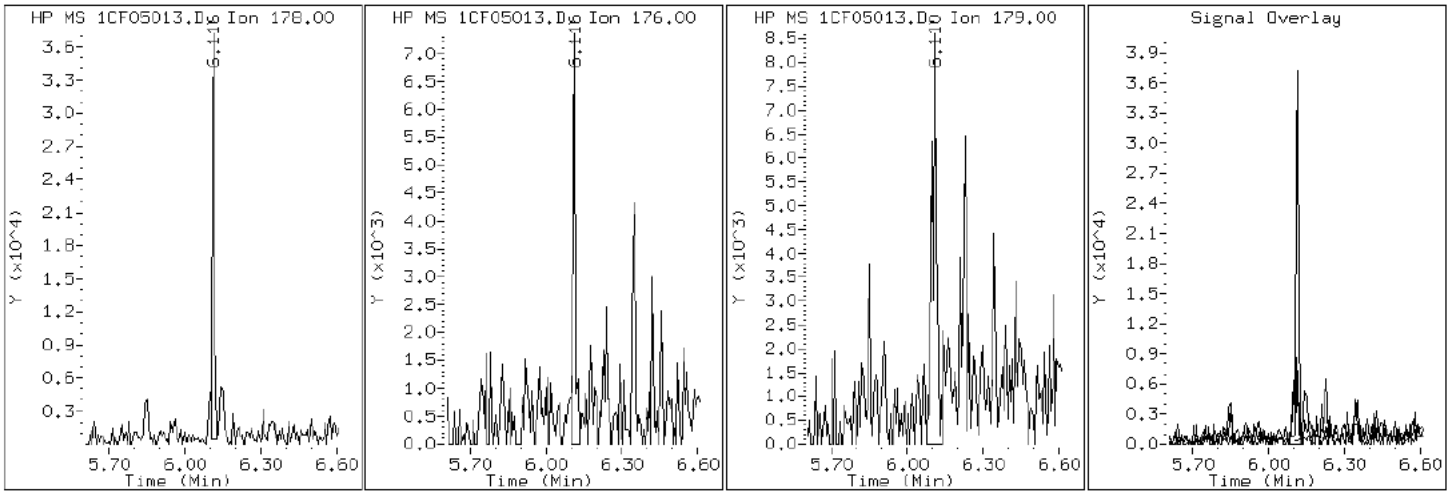
Data File: 1CF05013.D

Date: 05-JUN-2013 14:41

Client ID: CV1014B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-23-a Operator: SCC

11 Phenanthrene



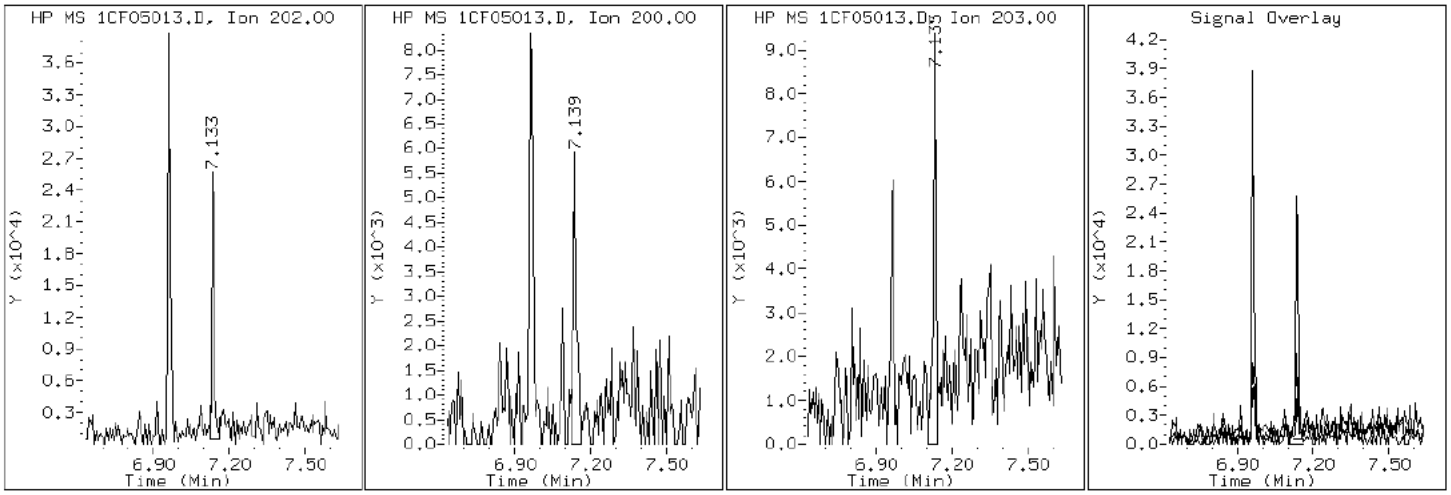
Data File: 1CF05013.D

Date: 05-JUN-2013 14:41

Client ID: CV1014B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-23-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF05013.D
Inj. Date and Time: 05-JUN-2013 14:41
Instrument ID: BSMC5973.i
Client ID: CV1014B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/05/2013

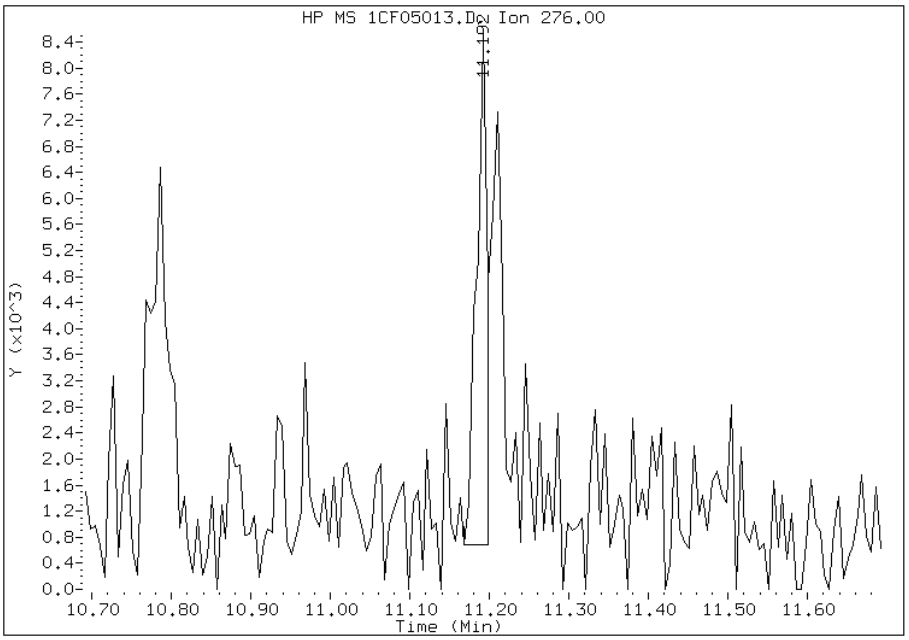
Processing Integration Results

RT: 11.19

Response: 7225

Amount: 0

Conc: 23



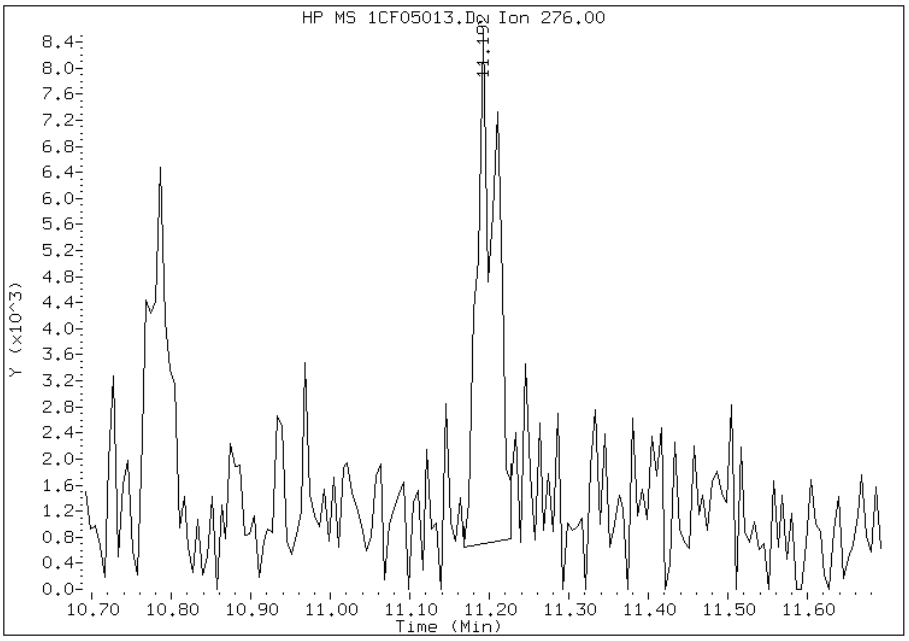
Manual Integration Results

RT: 11.19

Response: 13432

Amount: 0

Conc: 42



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 16:02
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV1015A-CS | Lab Sample ID: 680-90723-24

Matrix: Solid | Lab File ID: 1CF04034.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 13:45

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.35(g) | Date Analyzed: 06/04/2013 20:22

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

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

% Moisture: 26.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138098 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	38	J F	53	6.6
120-12-7	Anthracene	54	F	11	5.6
56-55-3	Benzo[a]anthracene	270	F	11	5.2
50-32-8	Benzo[a]pyrene	240	F	14	6.9
205-99-2	Benzo[b]fluoranthene	480	F	16	8.1
191-24-2	Benzo[g,h,i]perylene	180	F	27	5.8
207-08-9	Benzo[k]fluoranthene	170	F	11	4.8
218-01-9	Chrysene	410	F	12	6.0
53-70-3	Dibenz(a,h)anthracene	49		27	5.4
206-44-0	Fluoranthene	460	F	27	5.3
86-73-7	Fluorene	19	J	27	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	140	F	27	9.4
90-12-0	1-Methylnaphthalene	95		53	5.8
91-57-6	2-Methylnaphthalene	110		53	9.4
91-20-3	Naphthalene	110		53	5.8
85-01-8	Phenanthrene	310	F	11	5.2
129-00-0	Pyrene	420	F	27	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	46		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04034.D
Lab Smp Id: 680-90723-A-24-A Client Smp ID: CV1015A-CS
Inj Date : 04-JUN-2013 20:22
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-24-a
Misc Info : 680-90723-A-24-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 34
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	15.350	Weight Extracted
M	26.407	% 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	4.045	4.045	(1.000)	2712875	40.0000	
* 6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1876088	40.0000	
* 10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3229457	40.0000	
$ 14 o-Terphenyl	230	6.351	6.351	(1.040)	232220	4.61608	408.6282
* 18 Chrysene-d12	240	8.068	8.068	(1.000)	3369782	40.0000	
* 23 Perylene-d12	264	9.409	9.409	(1.000)	3229488	40.0000	
2 Naphthalene	128	4.057	4.057	(1.003)	94116	1.22936	108.8261
3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	54416	1.28147	113.4388
4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	44847	1.07344	95.0235
5 Acenaphthylene	152	5.045	5.045	(0.983)	30831	0.42868	37.9477
7 Acenaphthene	154	5.151	5.151	(1.003)	7957	0.17642	15.6175(Q)
9 Fluorene	166	5.480	5.480	(1.068)	12662	0.22003	19.4773(Q)
11 Phenanthrene	178	6.116	6.121	(1.002)	331696	3.47647	307.7463
12 Anthracene	178	6.151	6.157	(1.008)	54207	0.61325	54.2865

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.257	6.257	(1.025)	43200	0.63811	56.4872
15 Fluoranthene	202	6.968	6.968	(1.142)	503918	5.16712	457.4078
16 Pyrene	202	7.145	7.145	(0.886)	434041	4.76996	422.2501
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	287947	3.09887	274.3203
19 Chrysene	228	8.086	8.092	(1.002)	434035	4.63942	410.6941
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.956)	429673	5.41512	479.3611(M)
21 Benzo(k)fluoranthene	252	9.015	9.027	(0.958)	171149	1.93122	170.9571(MH)
22 Benzo(a)pyrene	252	9.345	9.345	(0.993)	211796	2.71079	239.9665
24 Indeno(1,2,3-cd)pyrene	276	10.786	10.792	(1.146)	118379	1.52897	135.3484(M)
25 Dibenzo(a,h)anthracene	278	10.809	10.815	(1.149)	37885	0.54961	48.6532
26 Benzo(g,h,i)perylene	276	11.203	11.215	(1.191)	153321	2.04357	180.9024(M)

QC Flag Legend

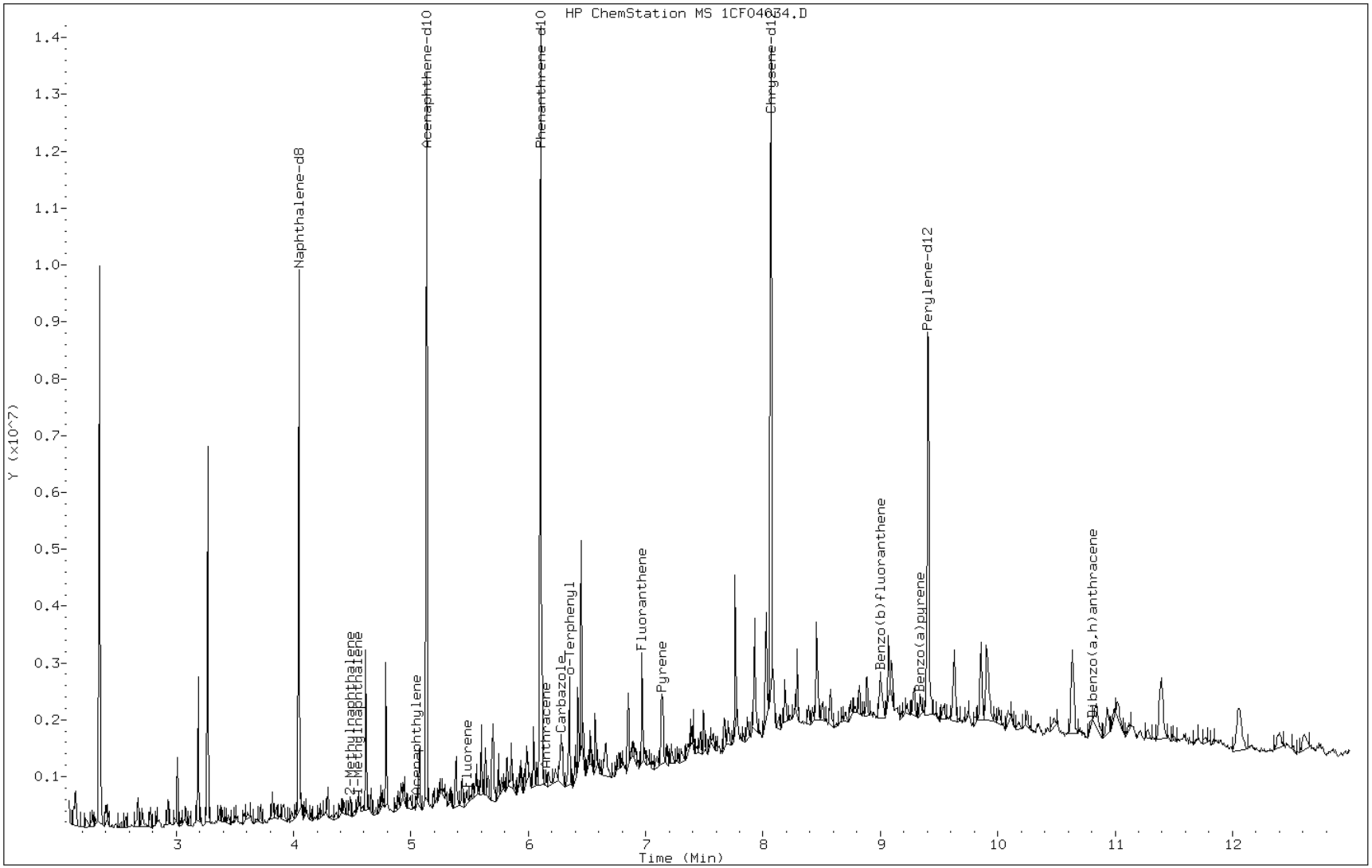
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC



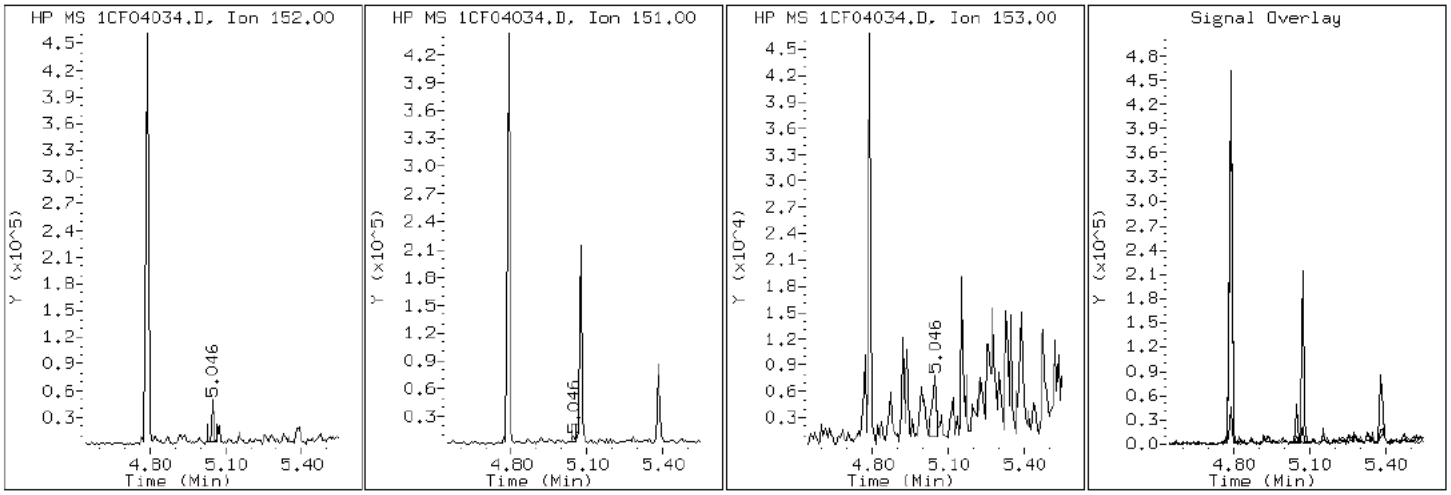
Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC

5 Acenaphthylene



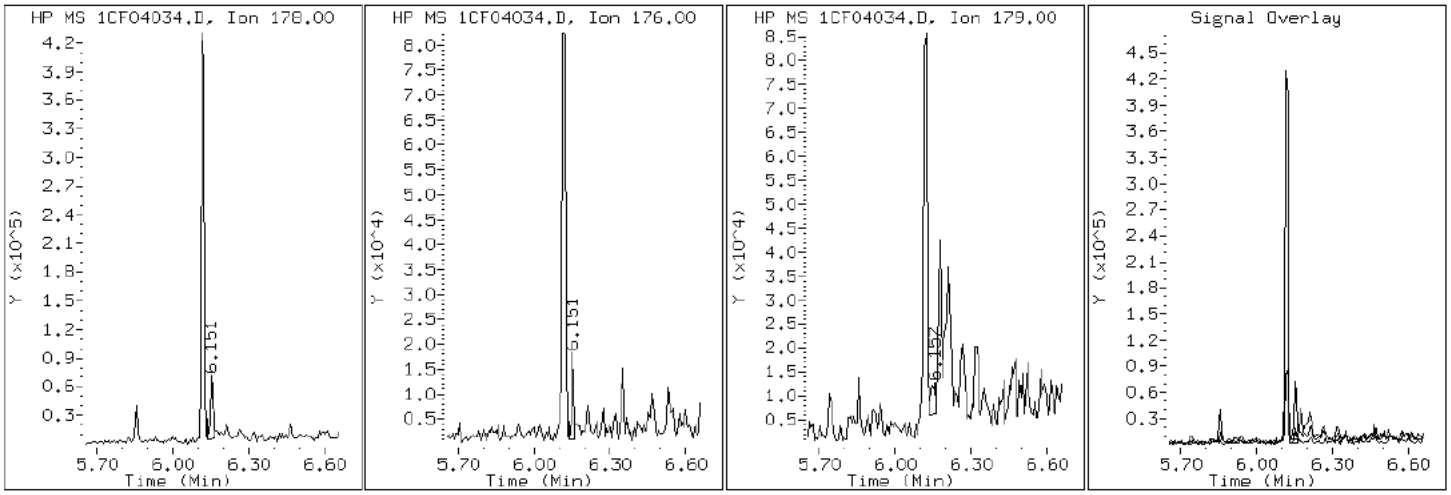
Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC

12 Anthracene



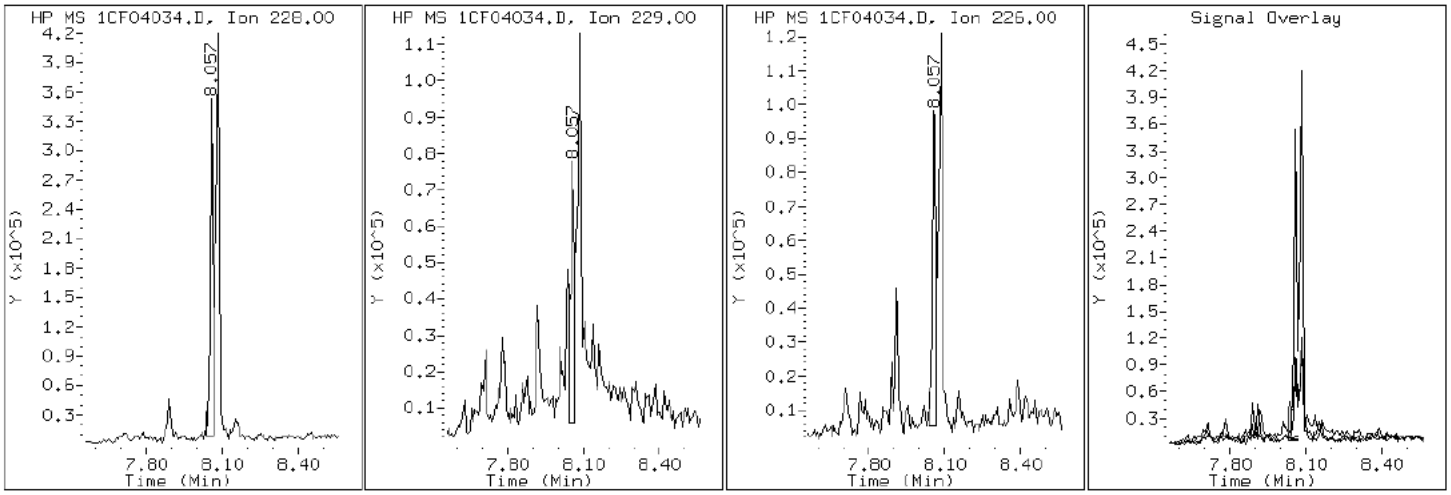
Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC

17 Benzo(a)anthracene



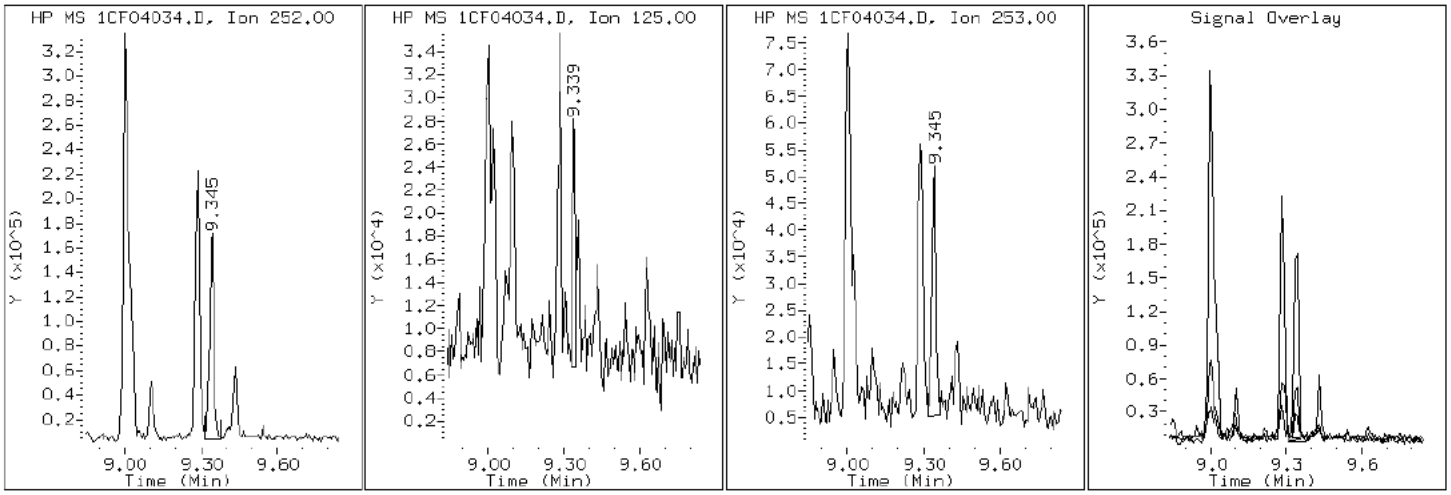
Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC

22 Benzo(a)pyrene



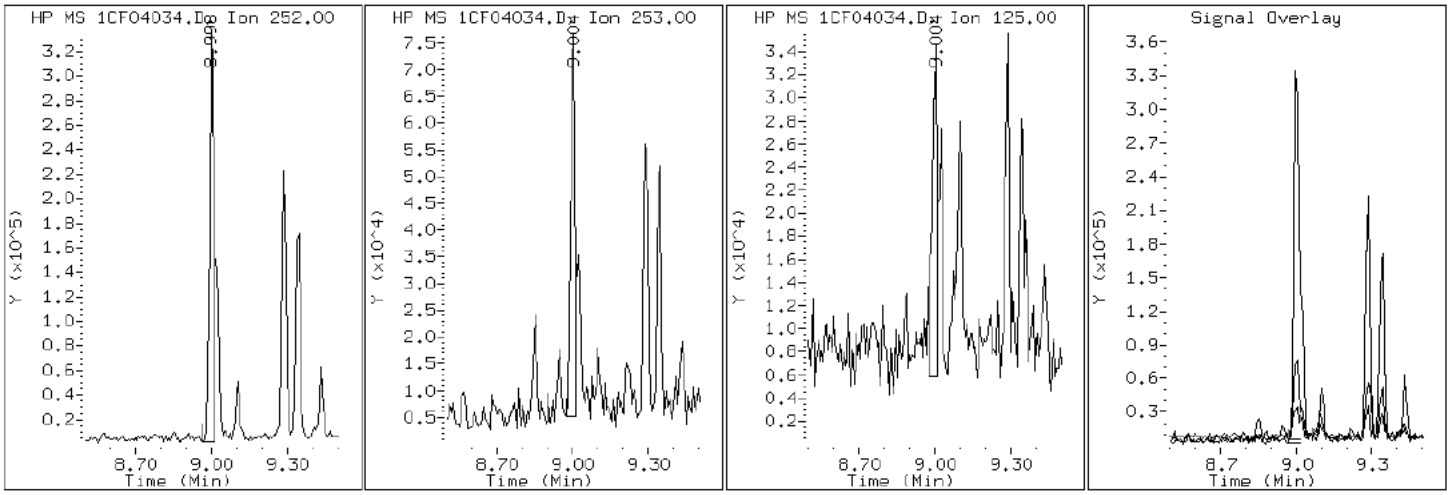
Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC

20 Benzo(b)fluoranthene



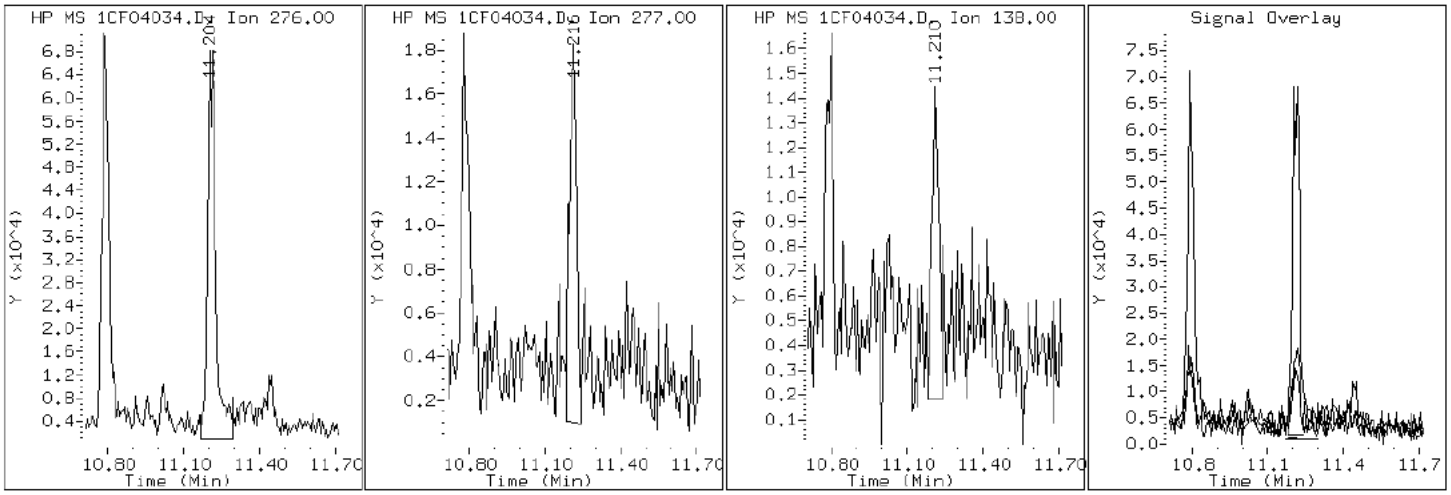
Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC

26 Benzo(g,h,i)perylene



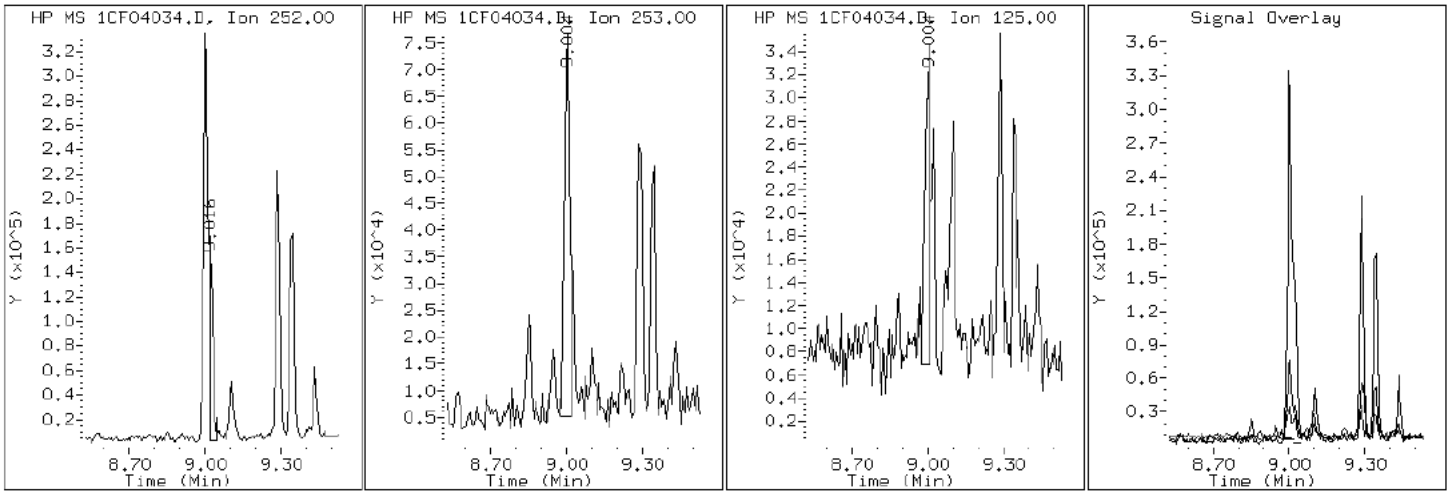
Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC

21 Benzo(k)fluoranthene



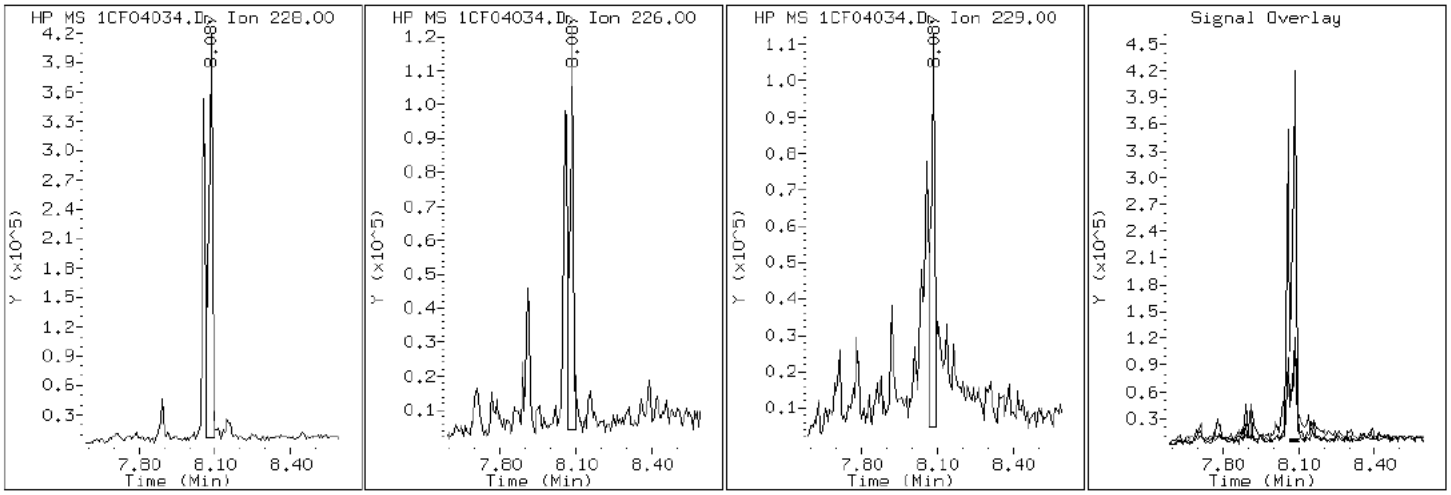
Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC

19 Chrysene



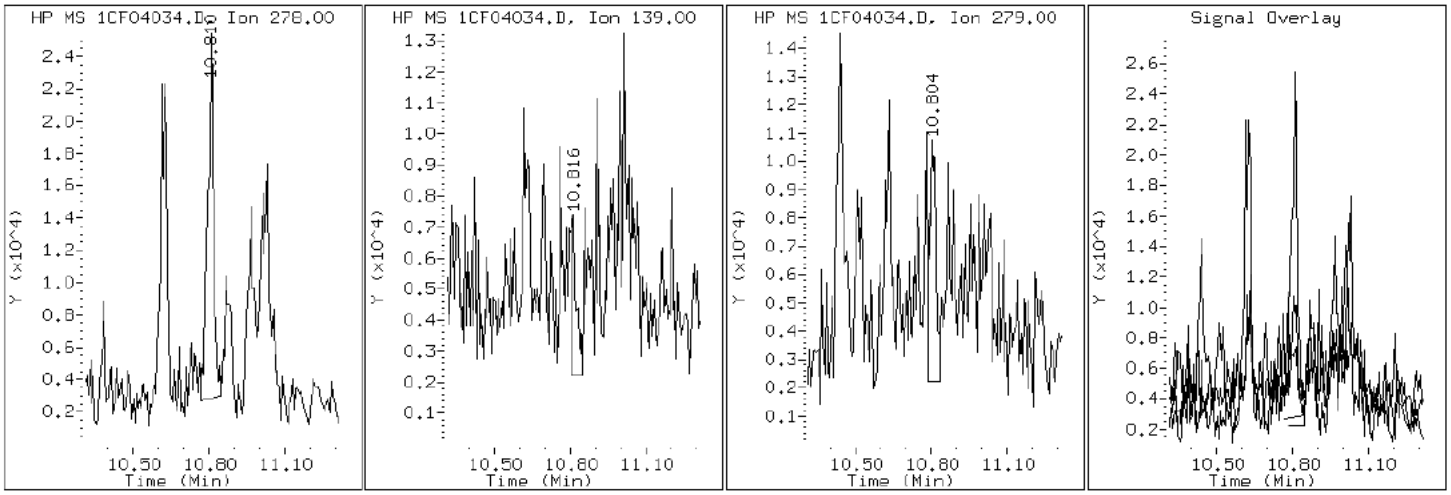
Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC

25 Dibenzo(a,h)anthracene



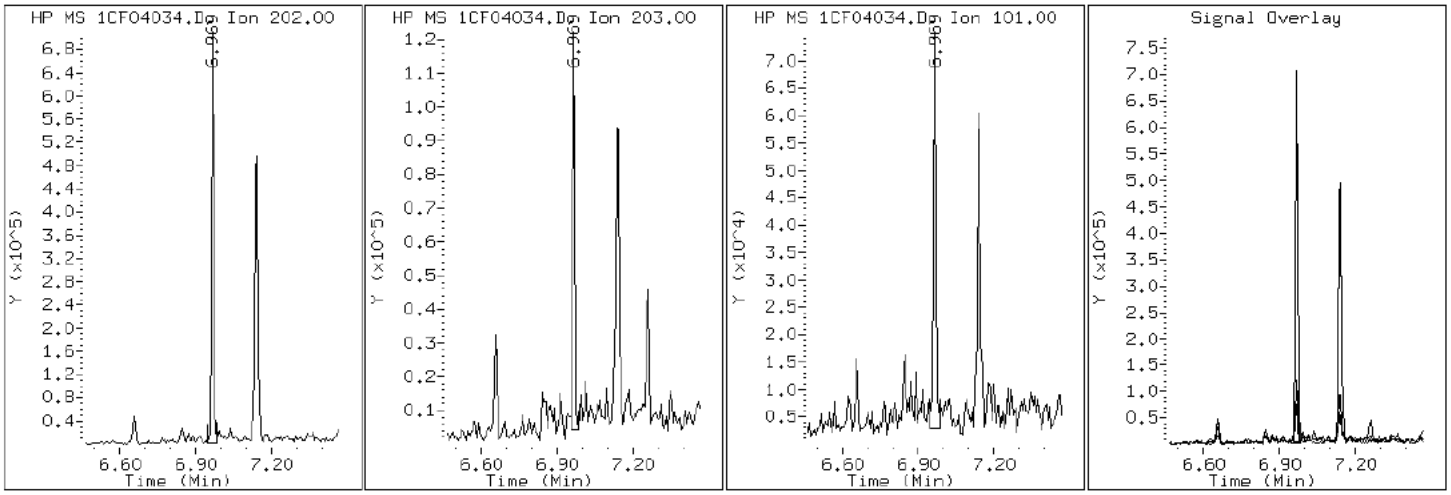
Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC

15 Fluoranthene



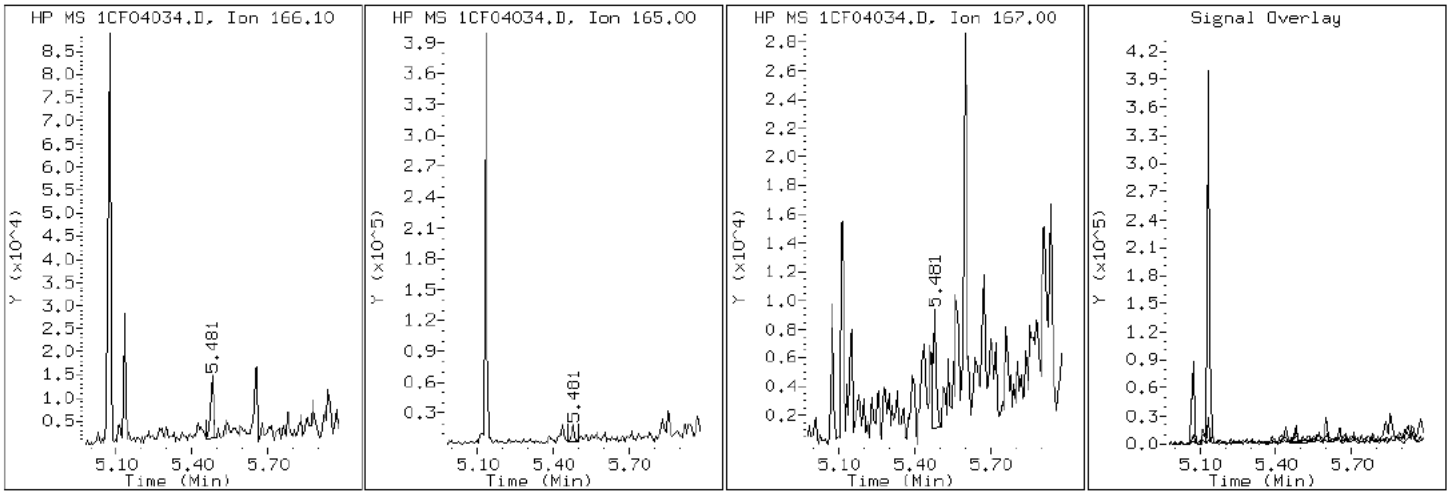
Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC

9 Fluorene



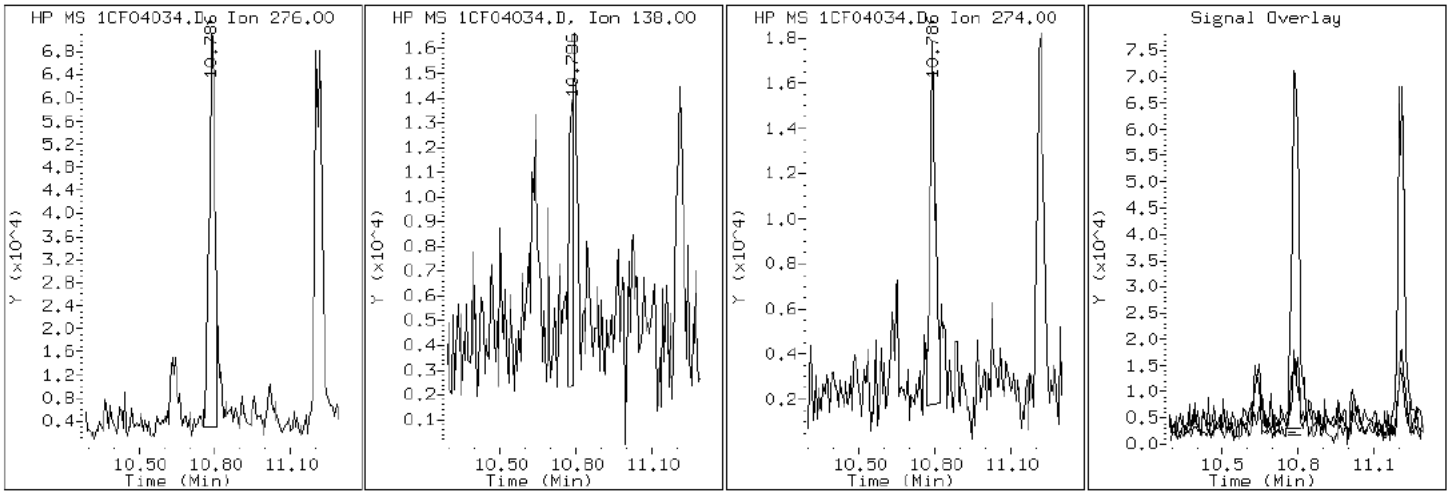
Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC

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



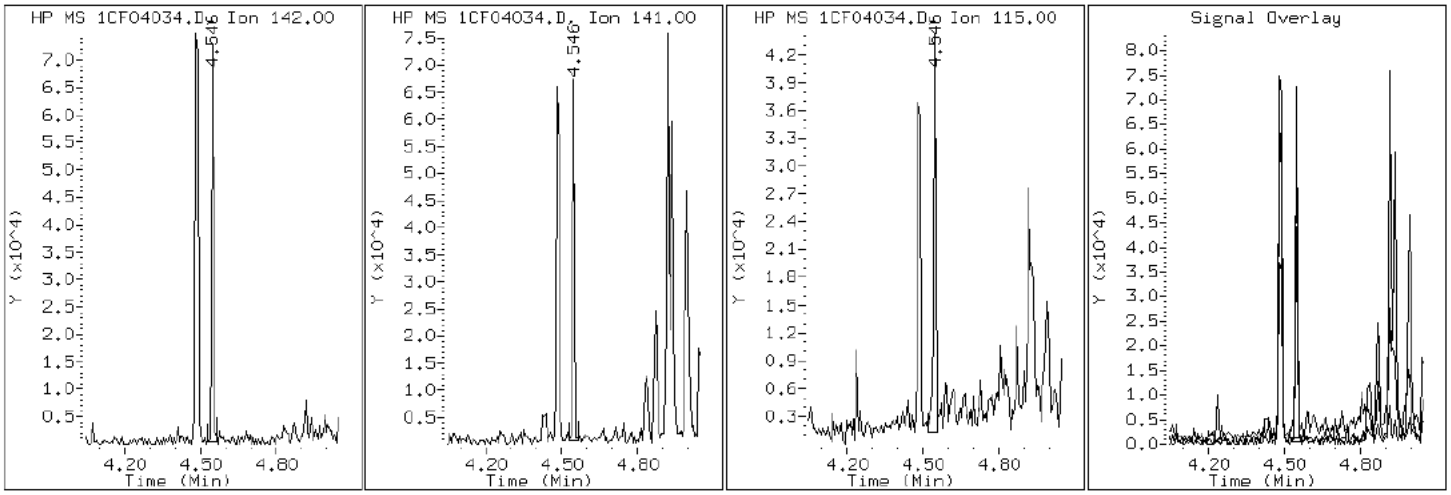
Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC

4 1-Methylnaphthalene



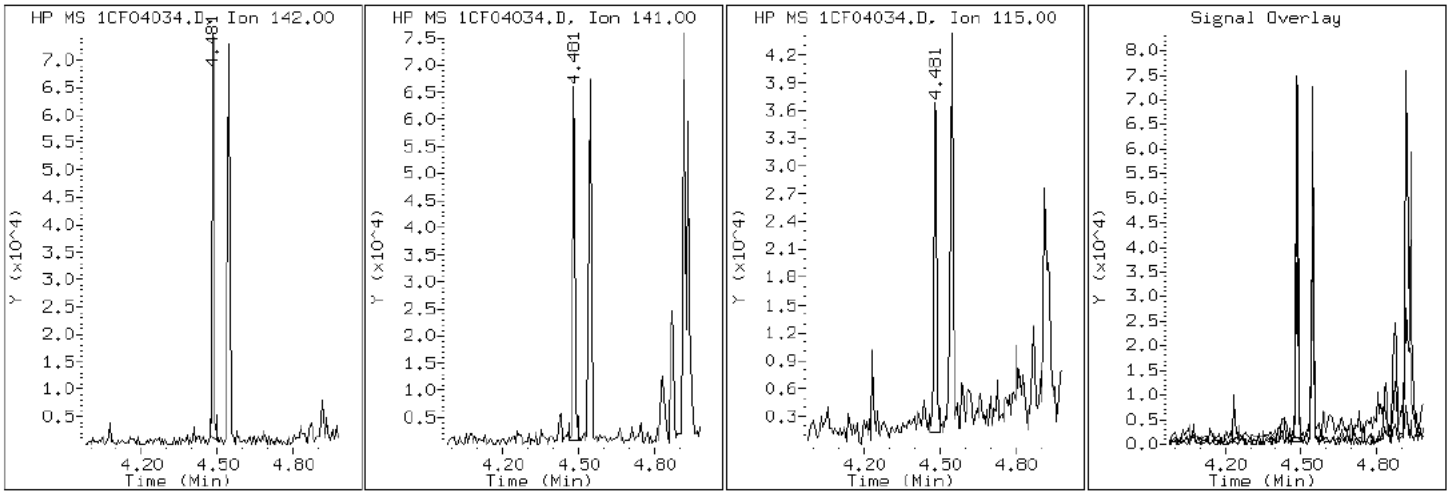
Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC

3 2-Methylnaphthalene



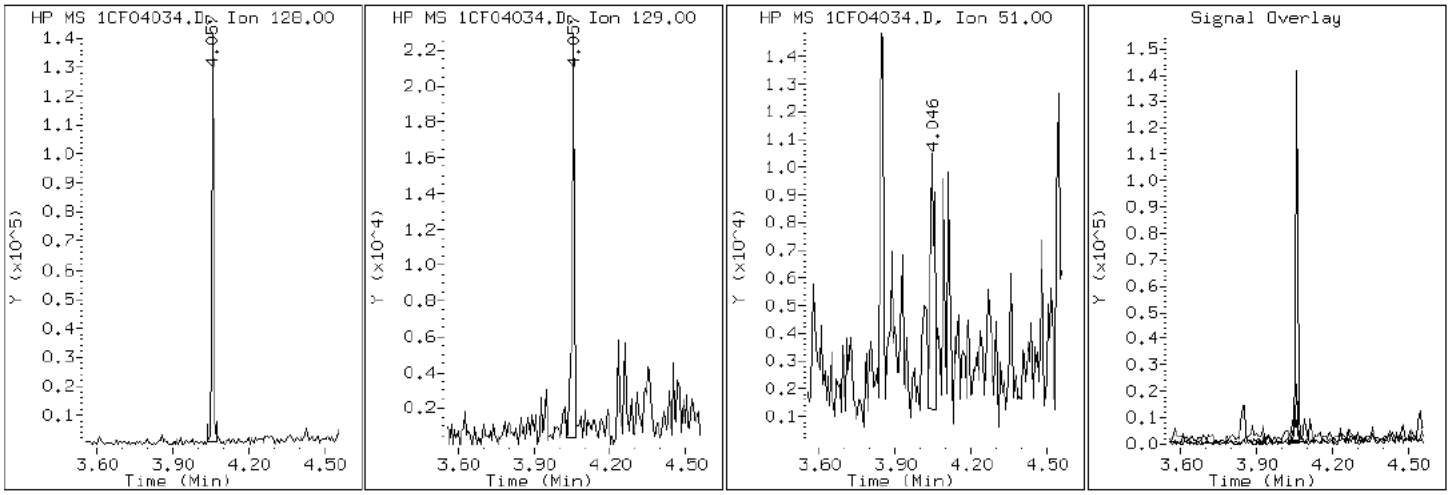
Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC

2 Naphthalene



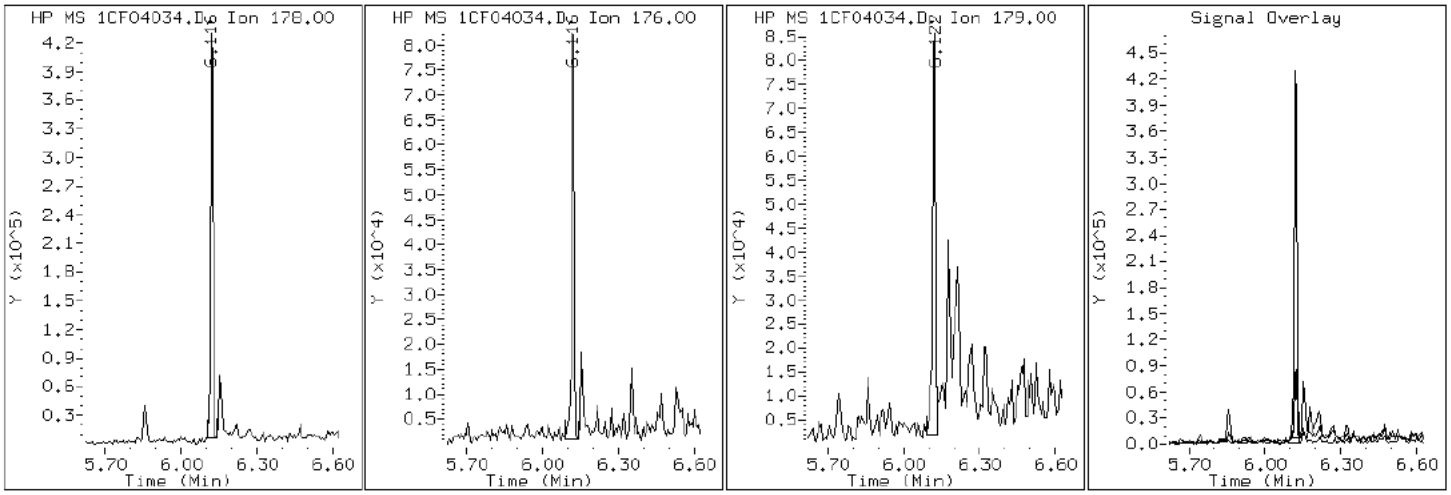
Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC

11 Phenanthrene



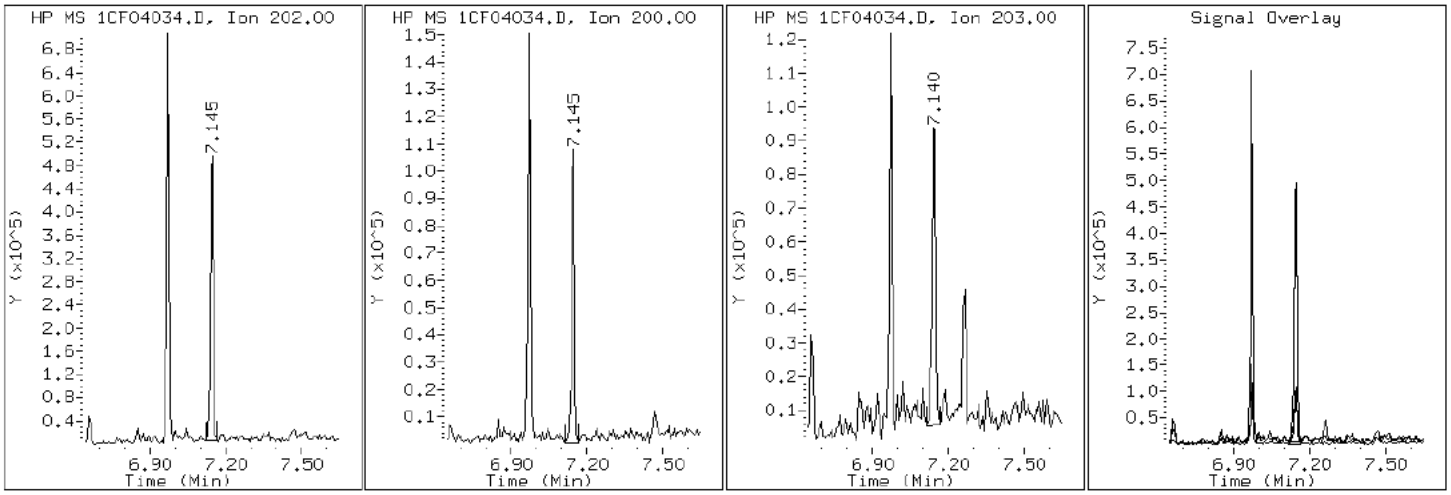
Data File: 1CF04034.D

Date: 04-JUN-2013 20:22

Client ID: CV1015A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04034.D
Inj. Date and Time: 04-JUN-2013 20:22
Instrument ID: BSMC5973.i
Client ID: CV1015A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

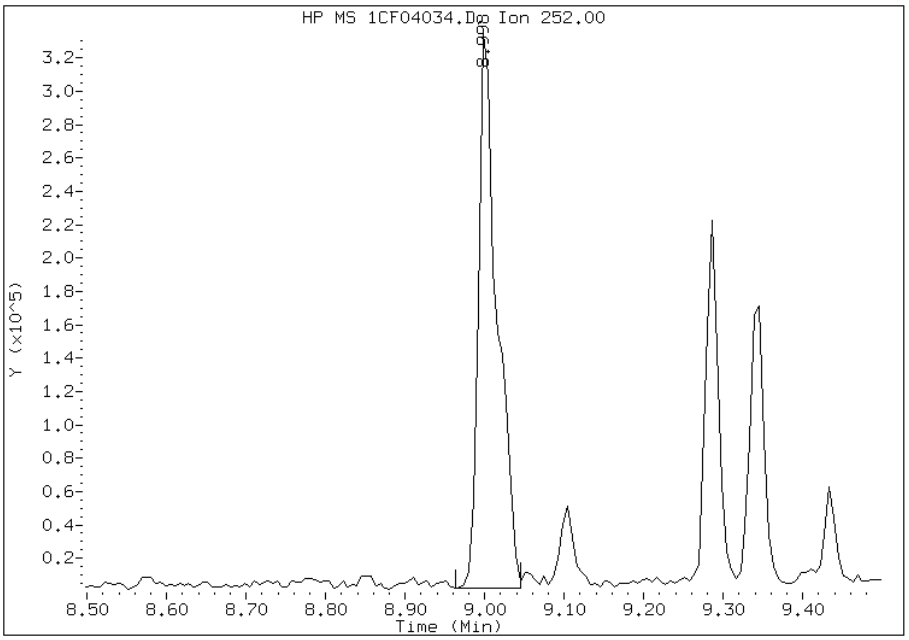
Processing Integration Results

RT: 9.00

Response: 548048

Amount: 7

Conc: 611



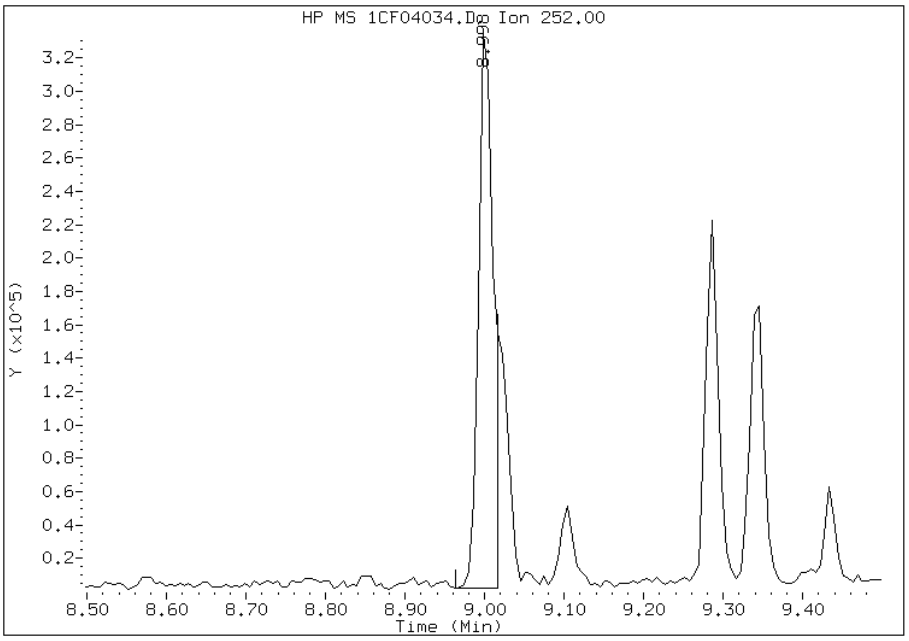
Manual Integration Results

RT: 9.00

Response: 429673

Amount: 5

Conc: 479



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF04034.D
Inj. Date and Time: 04-JUN-2013 20:22
Instrument ID: BSMC5973.i
Client ID: CV1015A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/05/2013

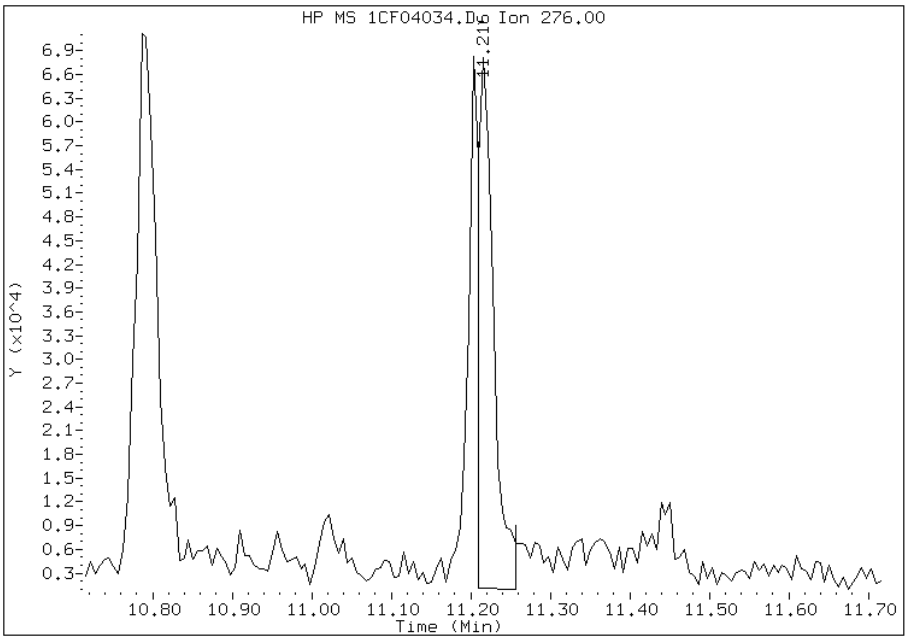
Processing Integration Results

RT: 11.22

Response: 92721

Amount: 1

Conc: 109



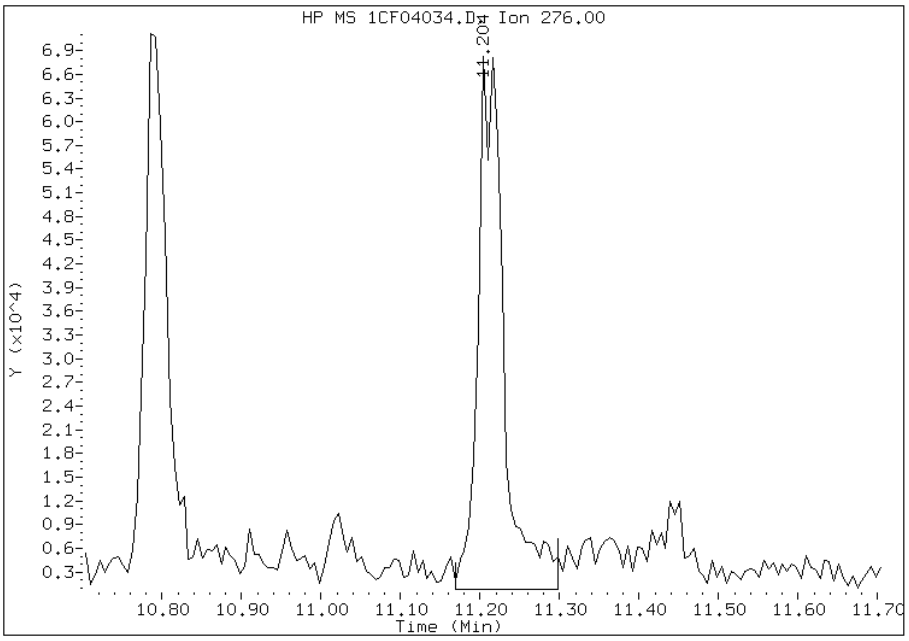
Manual Integration Results

RT: 11.20

Response: 153321

Amount: 2

Conc: 181



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04034.D
Inj. Date and Time: 04-JUN-2013 20:22
Instrument ID: BSMC5973.i
Client ID: CV1015A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

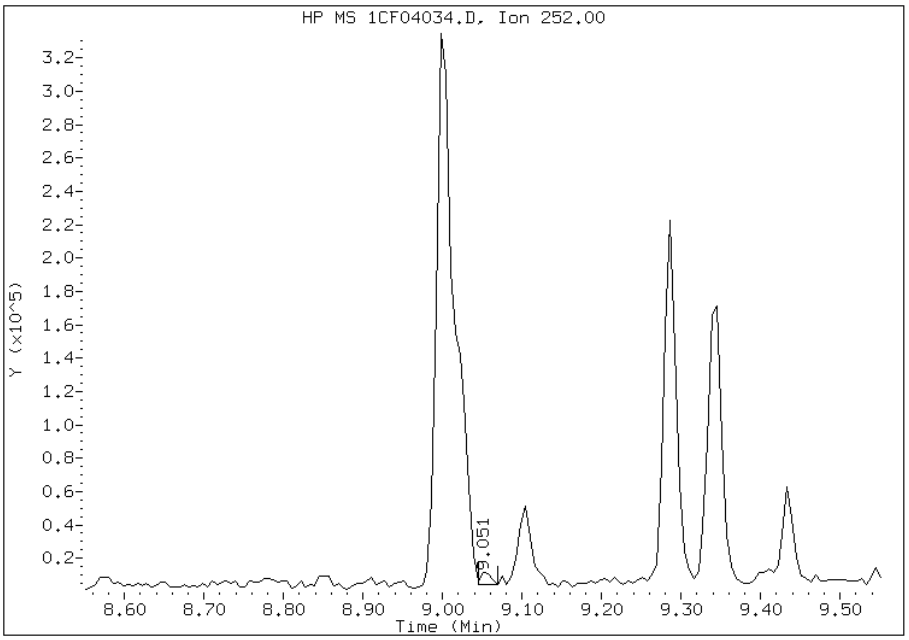
Processing Integration Results

RT: 9.05

Response: 6298

Amount: 0

Conc: 6



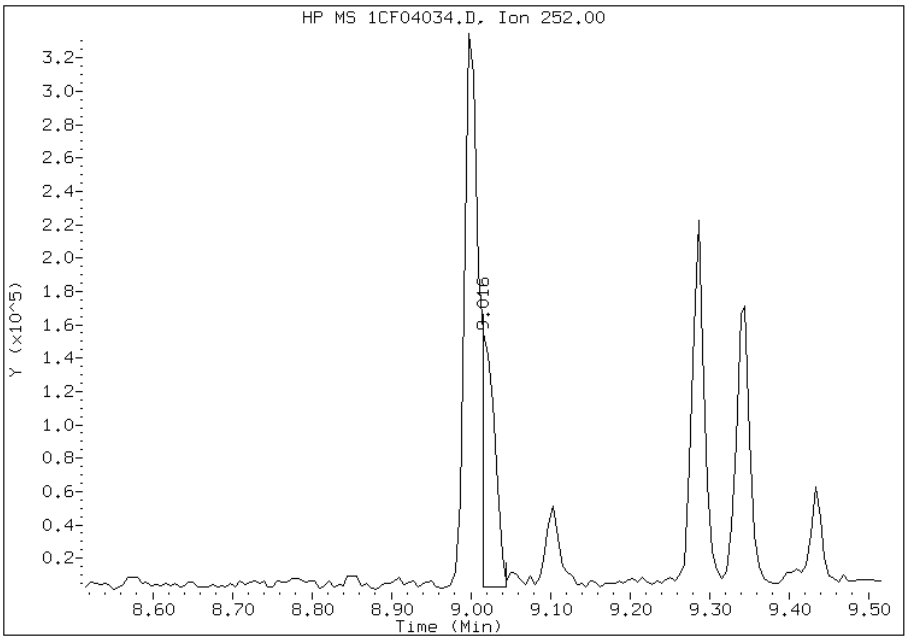
Manual Integration Results

RT: 9.02

Response: 171149

Amount: 2

Conc: 171



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04034.D
Inj. Date and Time: 04-JUN-2013 20:22
Instrument ID: BSMC5973.i
Client ID: CV1015A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

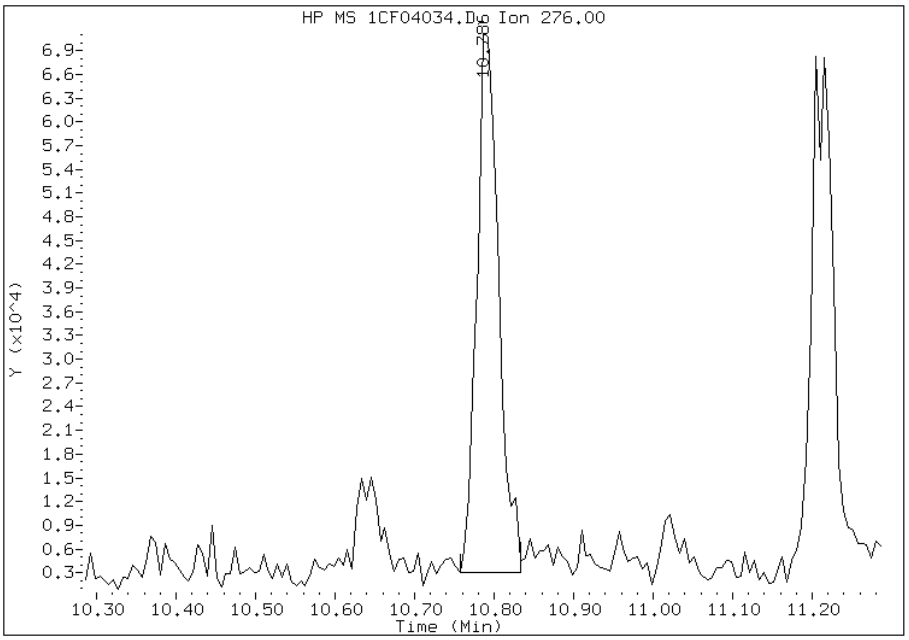
Processing Integration Results

RT: 10.79

Response: 129981

Amount: 2

Conc: 147



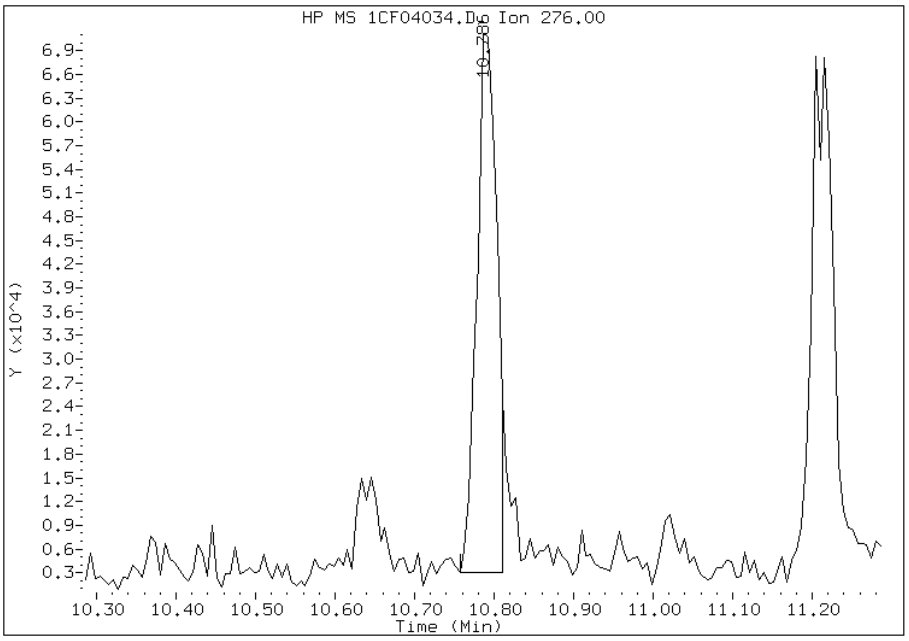
Manual Integration Results

RT: 10.79

Response: 118379

Amount: 2

Conc: 135



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV1015B-CS | Lab Sample ID: 680-90723-25

Matrix: Solid | Lab File ID: 1CF05006.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 13:57

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.08(g) | Date Analyzed: 06/05/2013 12:20

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

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

% Moisture: 28.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	92		55	6.9
120-12-7	Anthracene	62		12	5.8
56-55-3	Benzo[a]anthracene	360		11	5.4
50-32-8	Benzo[a]pyrene	370		14	7.2
205-99-2	Benzo[b]fluoranthene	750		17	8.5
191-24-2	Benzo[g,h,i]perylene	370		28	6.1
207-08-9	Benzo[k]fluoranthene	300		11	5.0
218-01-9	Chrysene	500		12	6.2
53-70-3	Dibenz(a,h)anthracene	110		28	5.7
206-44-0	Fluoranthene	560		28	5.5
86-73-7	Fluorene	23	J	28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	310		28	9.8
90-12-0	1-Methylnaphthalene	96		55	6.1
91-57-6	2-Methylnaphthalene	100		55	9.8
91-20-3	Naphthalene	98		55	6.1
85-01-8	Phenanthrene	270		11	5.4
129-00-0	Pyrene	480		28	5.1

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\BSMC5973.i\1C060513.b\1CF05006.D
Lab Smp Id: 680-90723-A-25-A Client Smp ID: CV1015B-CS
Inj Date : 05-JUN-2013 12:20
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-25-a
Misc Info : 680-90723-A-25-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	28.217	% 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	4.039	4.039	(1.000)	2195368	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1568060	40.0000	
* 10 Phenanthrene-d10	188	6.092	6.092	(1.000)	2977833	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.042)	257243	5.54558	512.2972
* 18 Chrysene-d12	240	8.057	8.056	(1.000)	3545250	40.0000	
* 23 Perylene-d12	264	9.386	9.392	(1.000)	3336779	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	65443	1.05633	97.5833
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	37898	1.10286	101.8813
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	35205	1.04129	96.1934
5 Acenaphthylene	152	5.039	5.039	(0.983)	59838	0.99543	91.9573
9 Fluorene	166	5.468	5.468	(1.067)	12150	0.25260	23.3353(Q)
11 Phenanthrene	178	6.110	6.110	(1.003)	260830	2.96473	273.8797
12 Anthracene	178	6.145	6.145	(1.009)	54758	0.67183	62.0631
13 Carbazole	167	6.245	6.251	(1.025)	37260	0.60430	55.8245(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.962	6.962	(1.143)	540918	6.01519	555.6801
16 Pyrene	202	7.133	7.133	(0.885)	497129	5.19288	479.7153
17 Benzo(a)anthracene	228	8.045	8.051	(0.999)	379450	3.88151	358.5712
19 Chrysene	228	8.074	8.074	(1.002)	533892	5.42435	501.0980
20 Benzo(b)fluoranthene	252	8.980	8.986	(0.957)	664659	8.10728	748.9459(M)
21 Benzo(k)fluoranthene	252	8.998	9.009	(0.959)	293241	3.20250	295.8452(M)
22 Benzo(a)pyrene	252	9.321	9.327	(0.993)	329938	4.03595	372.8389
24 Indeno(1,2,3-cd)pyrene	276	10.756	10.768	(1.146)	283396	3.33395	307.9887(M)
25 Dibenzo(a,h)anthracene	278	10.786	10.786	(1.149)	82495	1.15831	107.0037
26 Benzo(g,h,i)perylene	276	11.180	11.186	(1.191)	308171	3.97545	367.2495

QC Flag Legend

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

Data File: 1CF05006.D

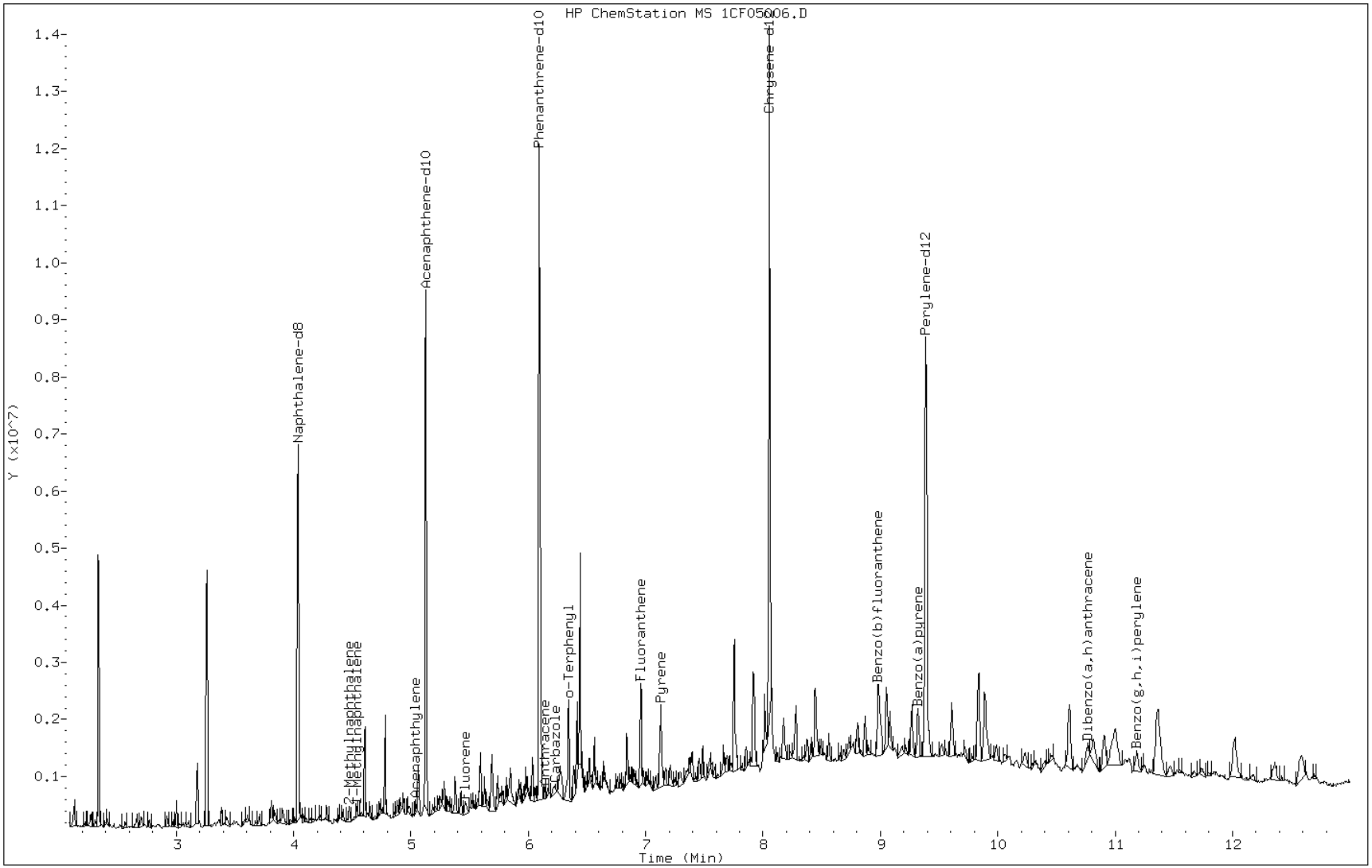
Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS

Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a

Operator: SCC



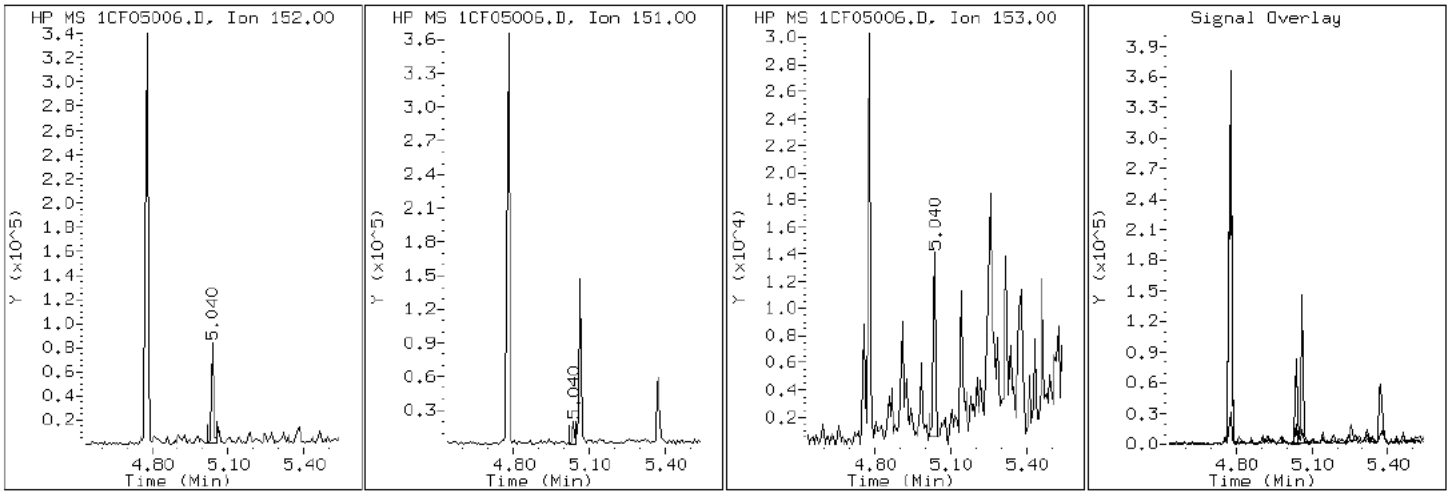
Data File: 1CF05006.D

Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a Operator: SCC

5 Acenaphthylene



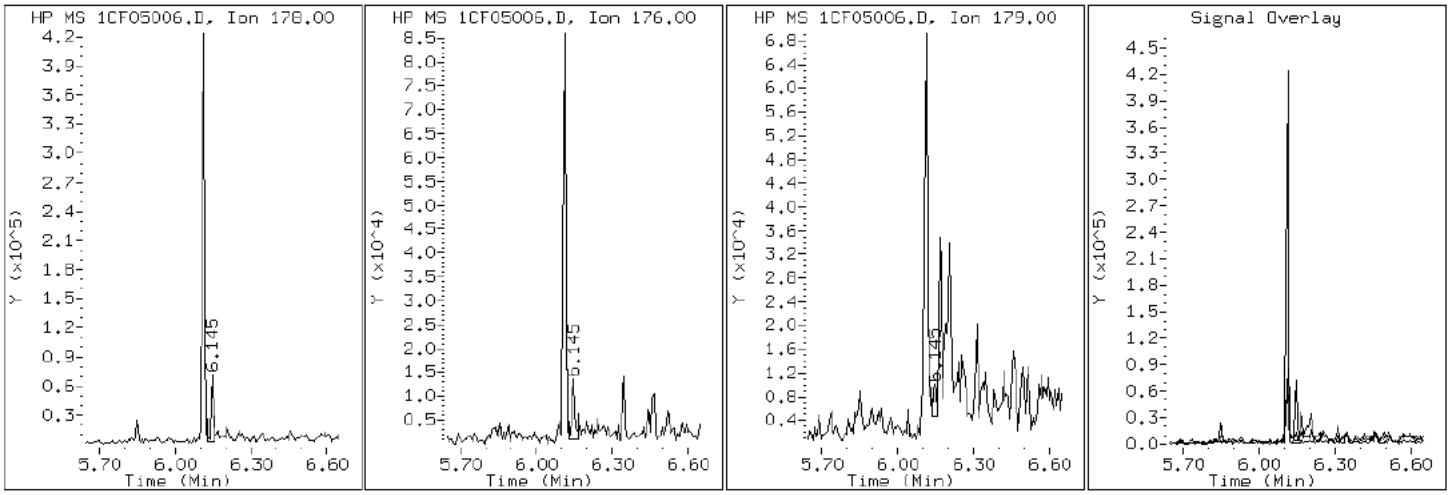
Data File: 1CF05006.D

Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a Operator: SCC

12 Anthracene



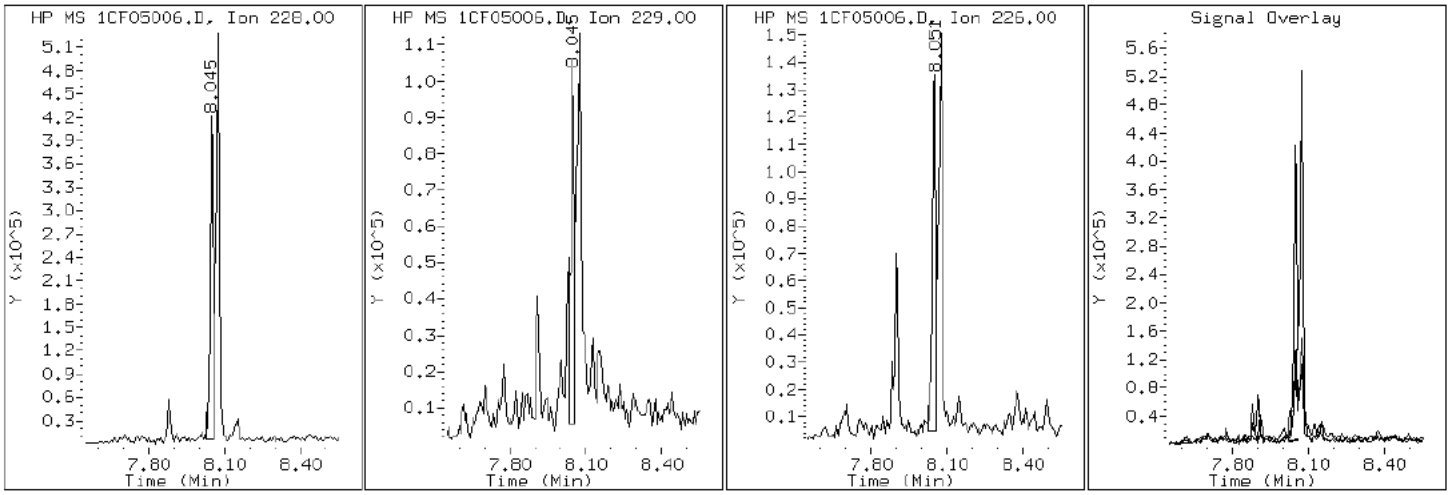
Data File: 1CF05006.D

Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a Operator: SCC

17 Benzo(a)anthracene



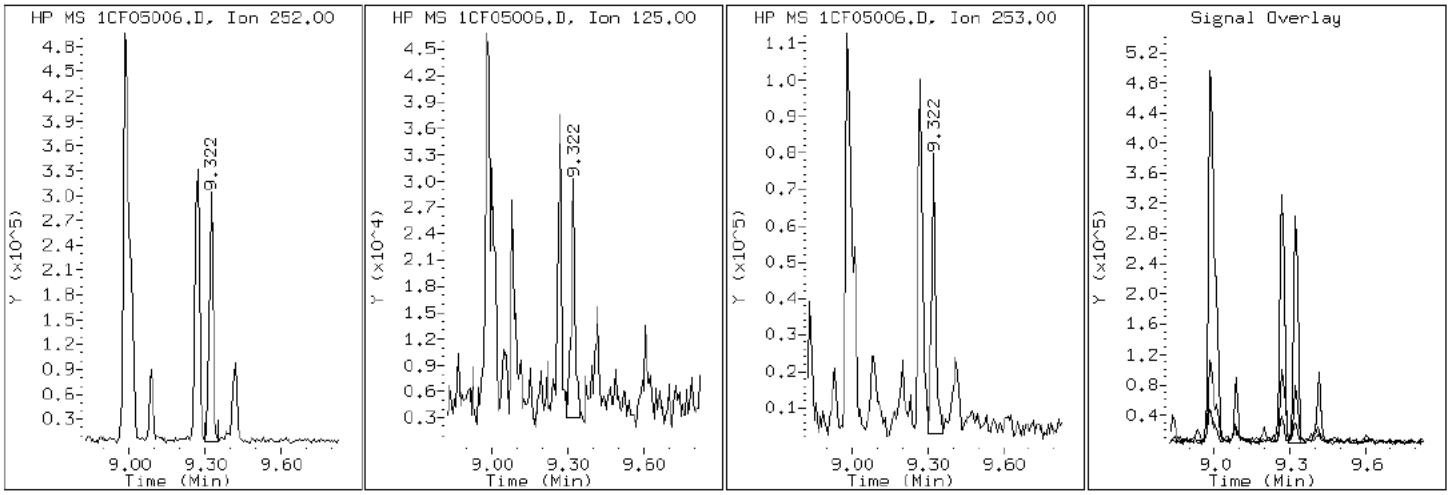
Data File: 1CF05006.D

Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a Operator: SCC

22 Benzo(a)pyrene



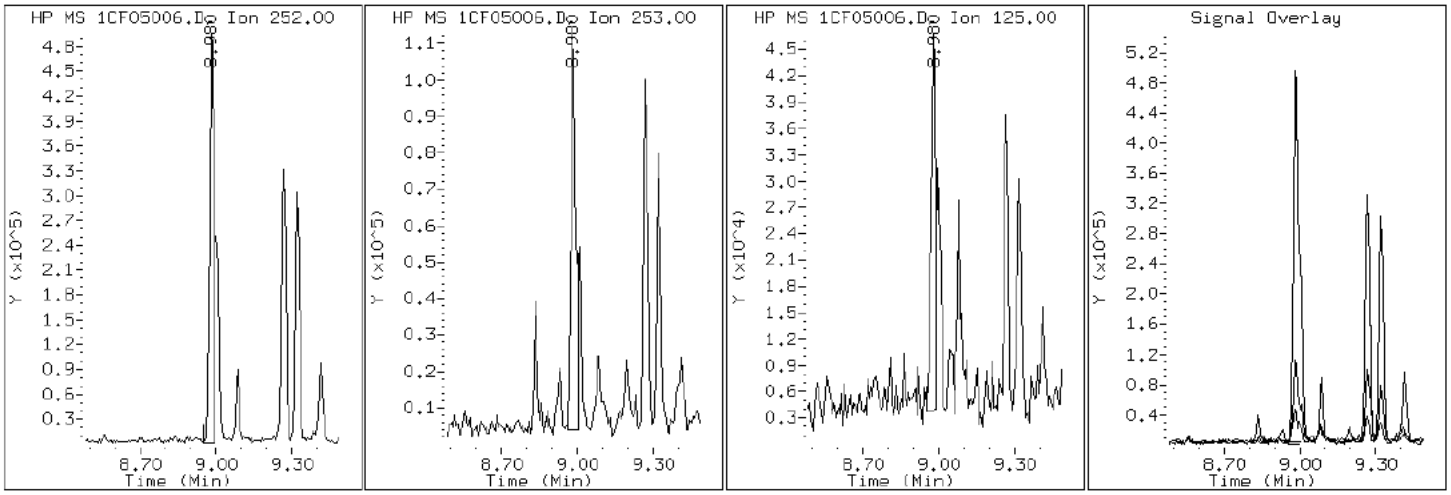
Data File: 1CF05006.D

Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a Operator: SCC

20 Benzo(b)fluoranthene



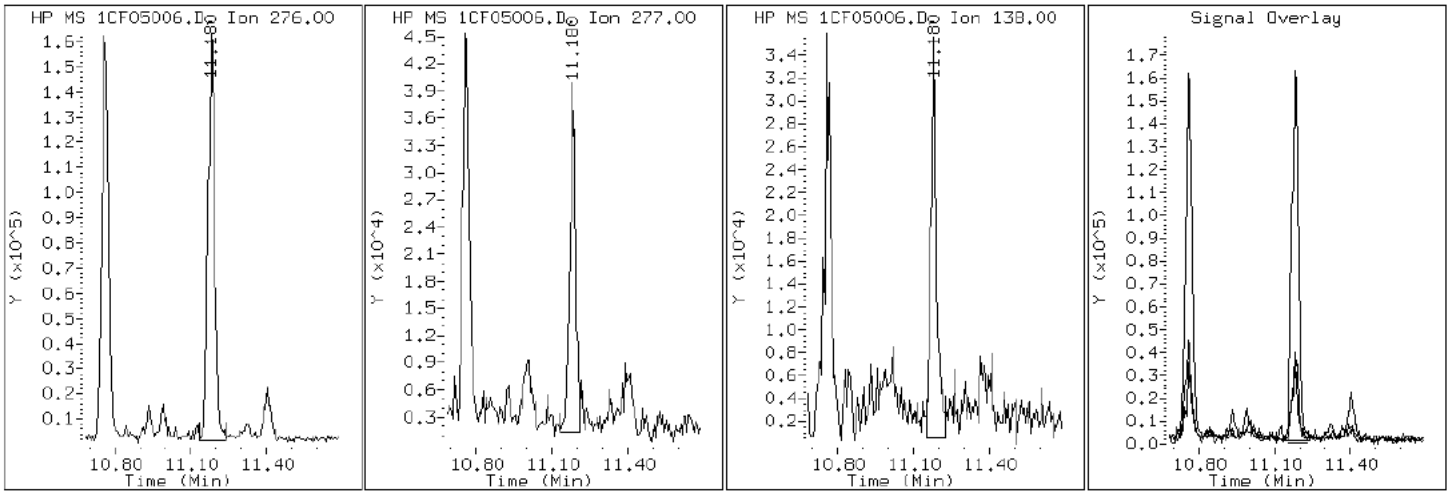
Data File: 1CF05006.D

Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a Operator: SCC

26 Benzo(g,h,i)perylene



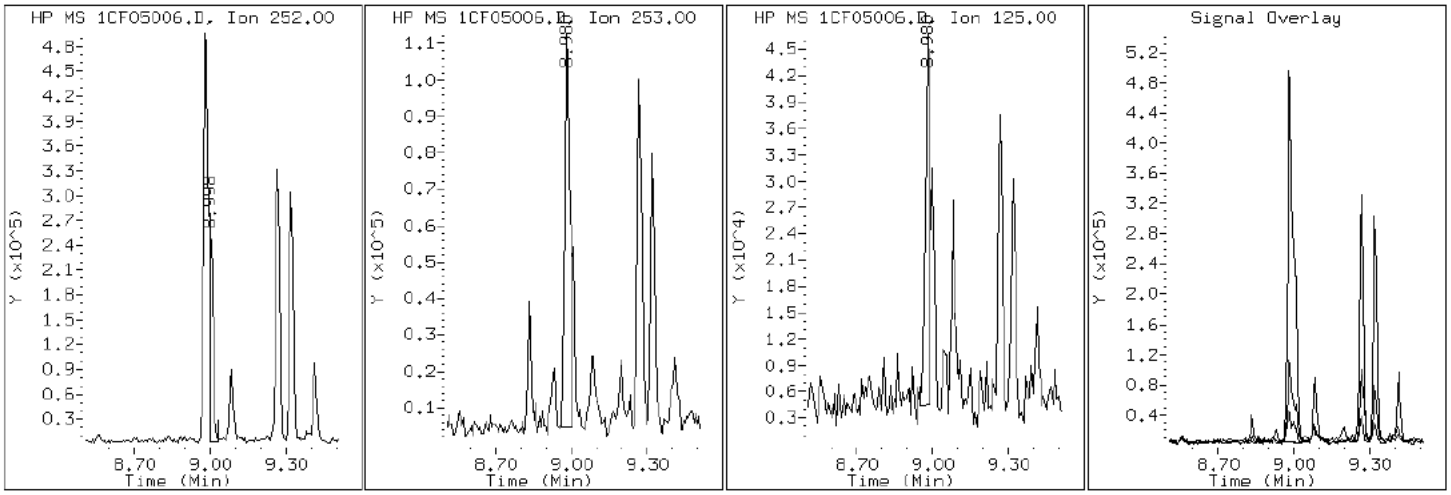
Data File: 1CF05006.D

Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a Operator: SCC

21 Benzo(k)fluoranthene



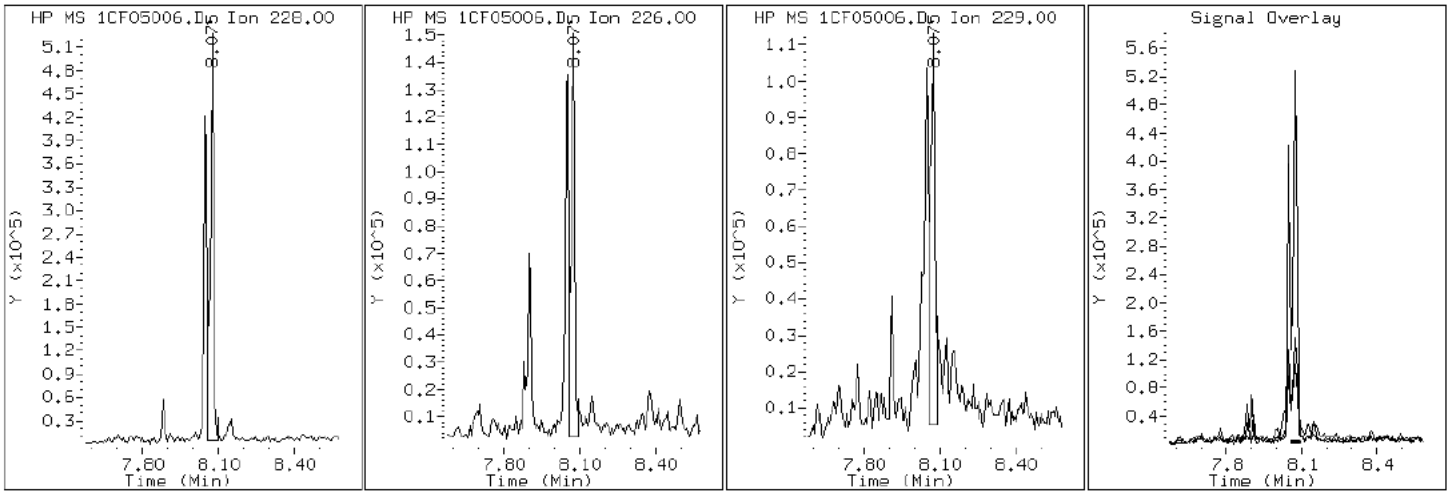
Data File: 1CF05006.D

Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a Operator: SCC

19 Chrysene



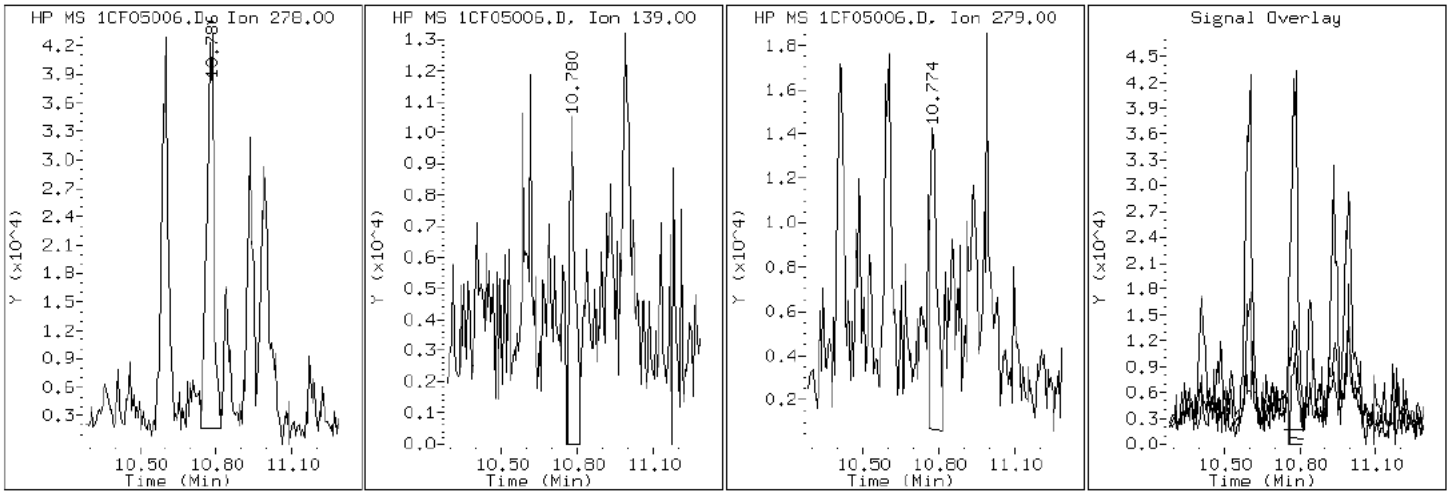
Data File: 1CF05006.D

Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a Operator: SCC

25 Dibenzo(a,h)anthracene



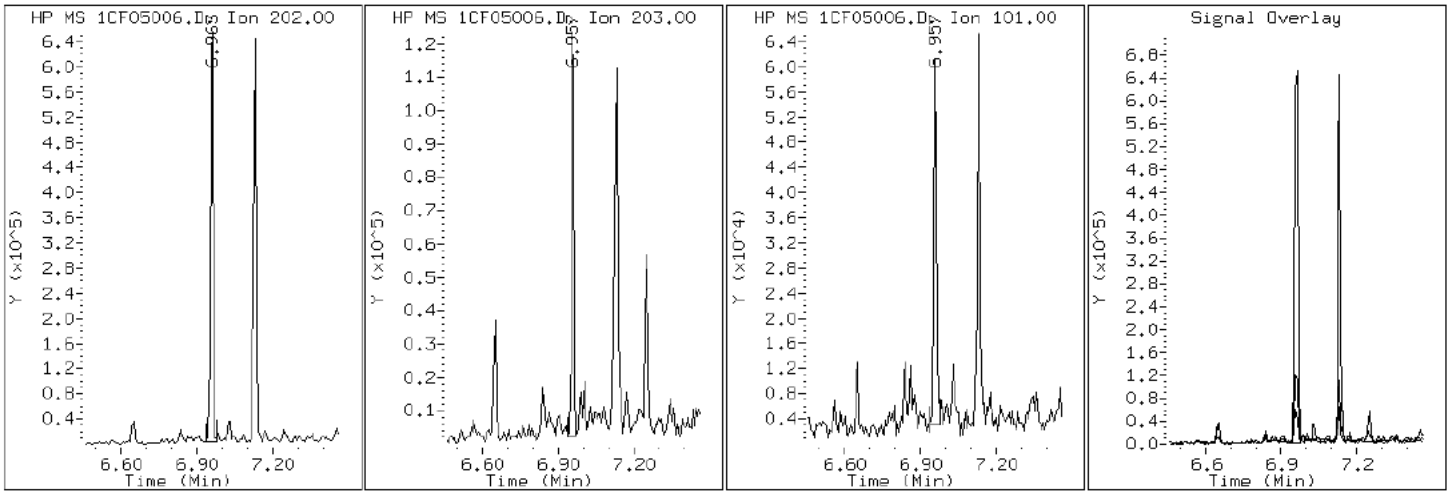
Data File: 1CF05006.D

Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a Operator: SCC

15 Fluoranthene



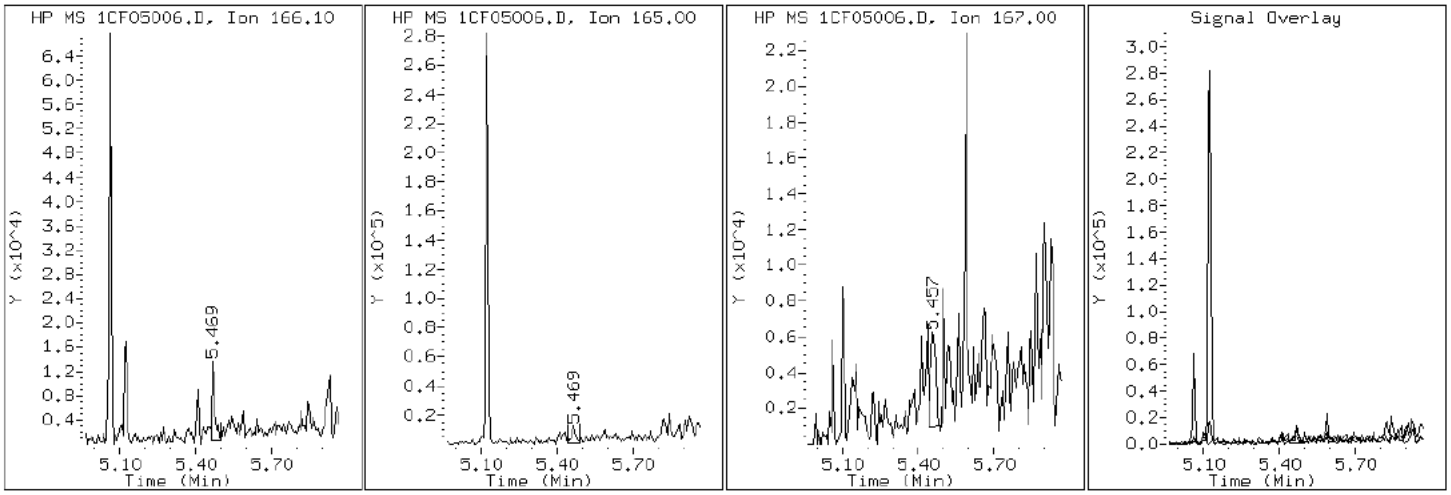
Data File: 1CF05006.D

Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a Operator: SCC

9 Fluorene



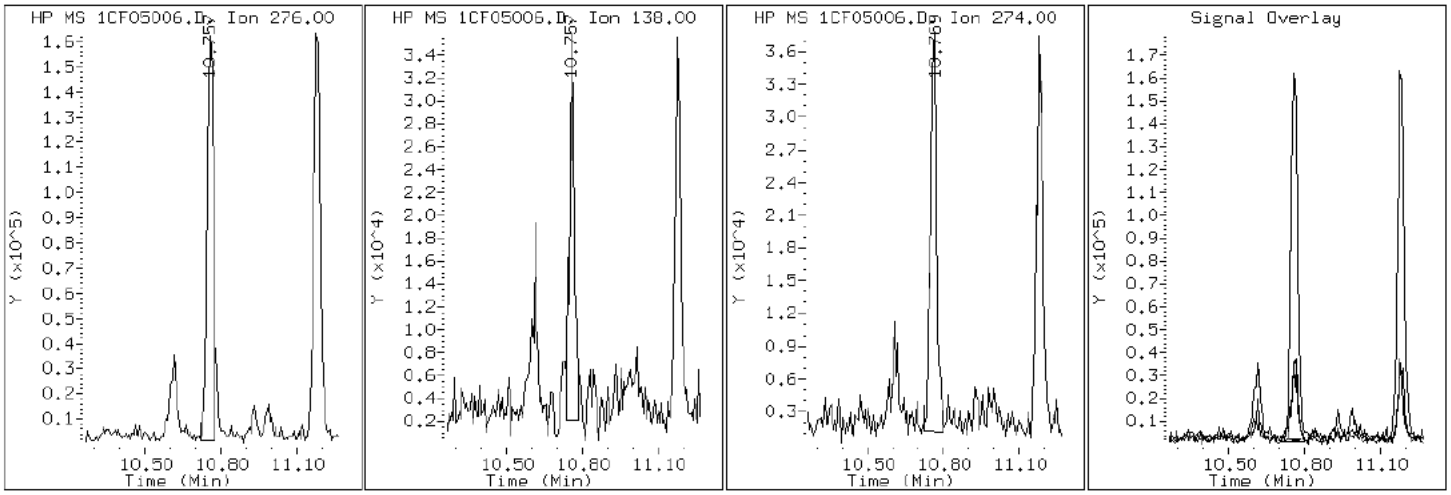
Data File: 1CF05006.D

Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a Operator: SCC

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



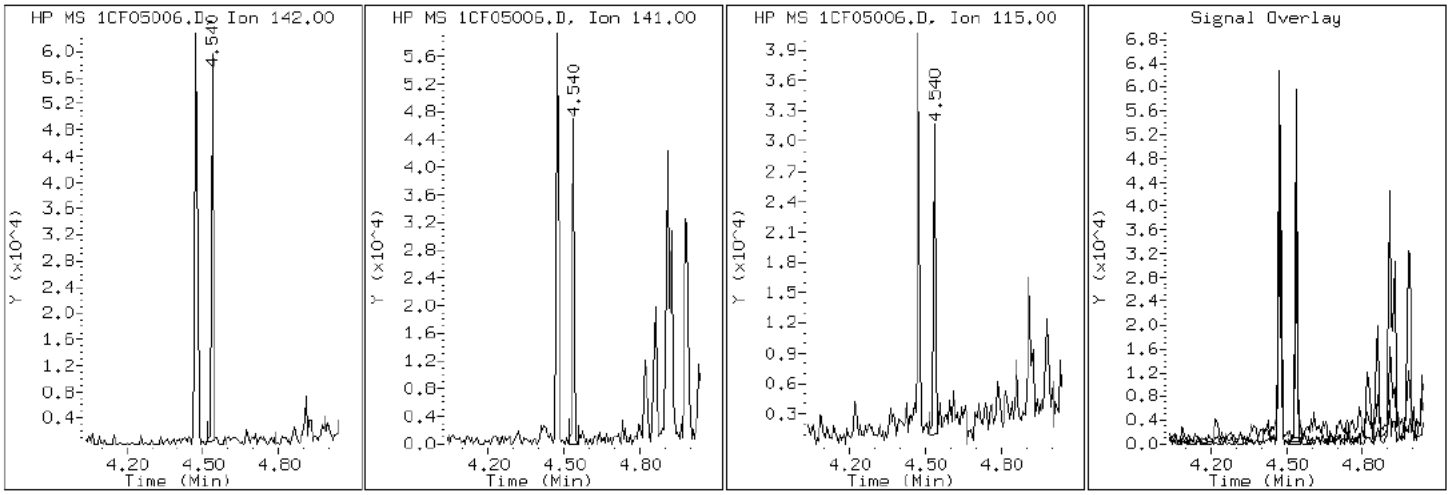
Data File: 1CF05006.D

Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a Operator: SCC

4 1-Methylnaphthalene



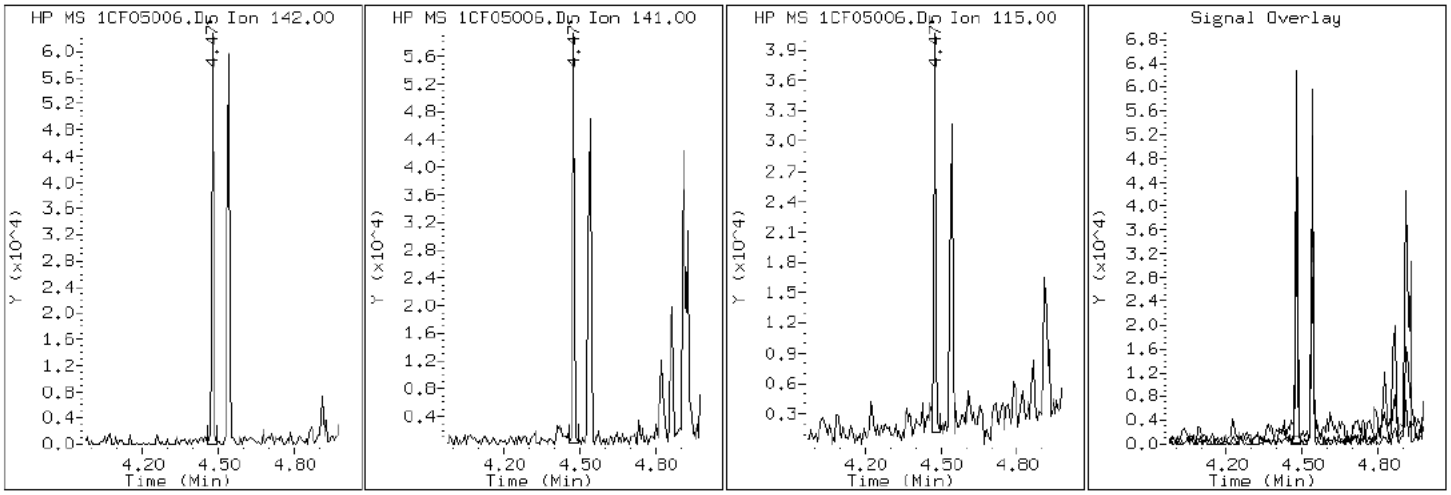
Data File: 1CF05006.D

Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a Operator: SCC

3 2-Methylnaphthalene



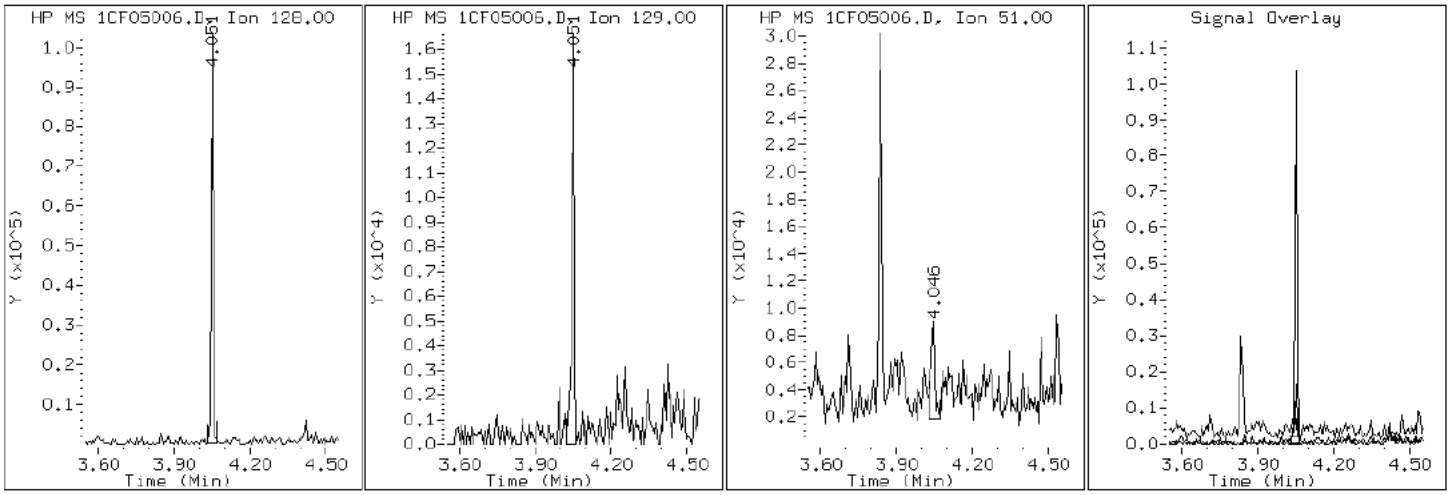
Data File: 1CF05006.D

Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a Operator: SCC

2 Naphthalene



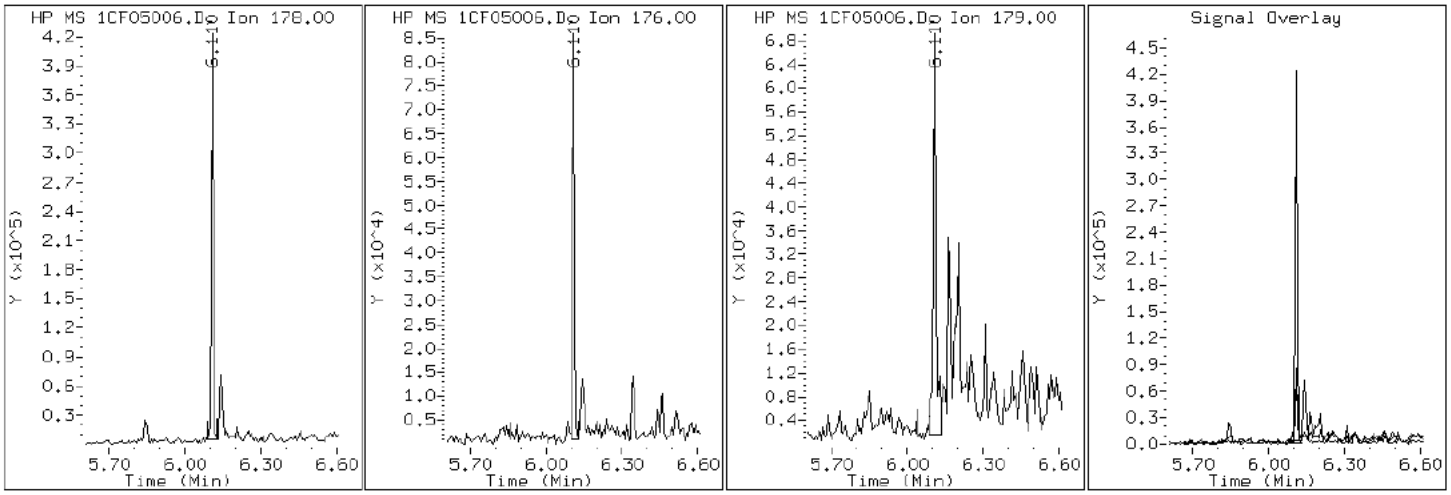
Data File: 1CF05006.D

Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a Operator: SCC

11 Phenanthrene



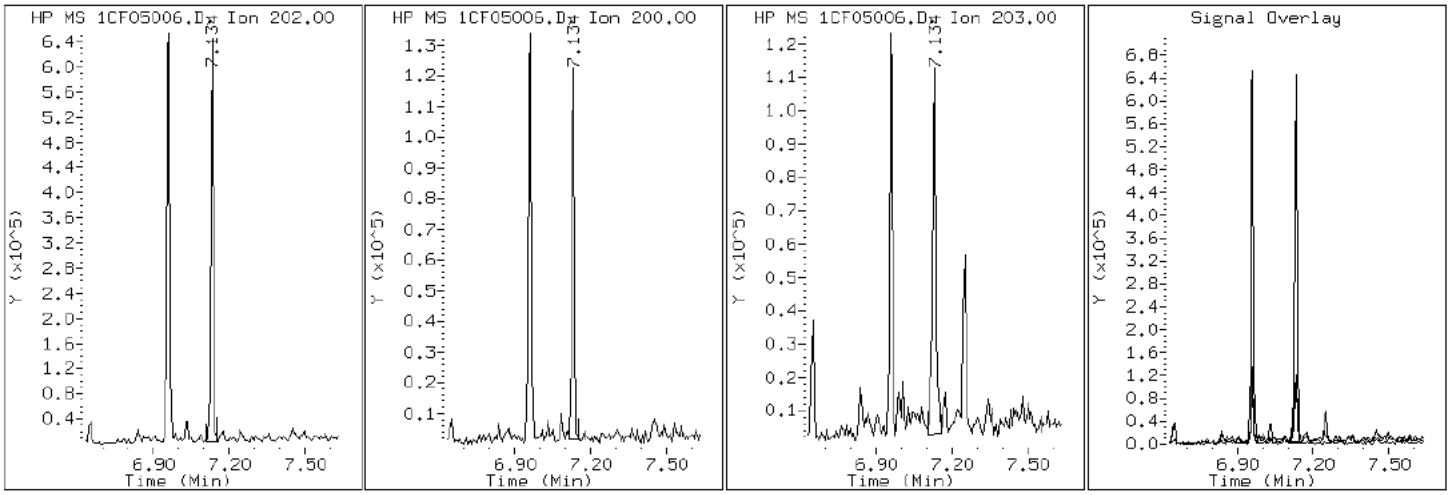
Data File: 1CF05006.D

Date: 05-JUN-2013 12:20

Client ID: CV1015B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-25-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF05006.D
Inj. Date and Time: 05-JUN-2013 12:20
Instrument ID: BSMC5973.i
Client ID: CV1015B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

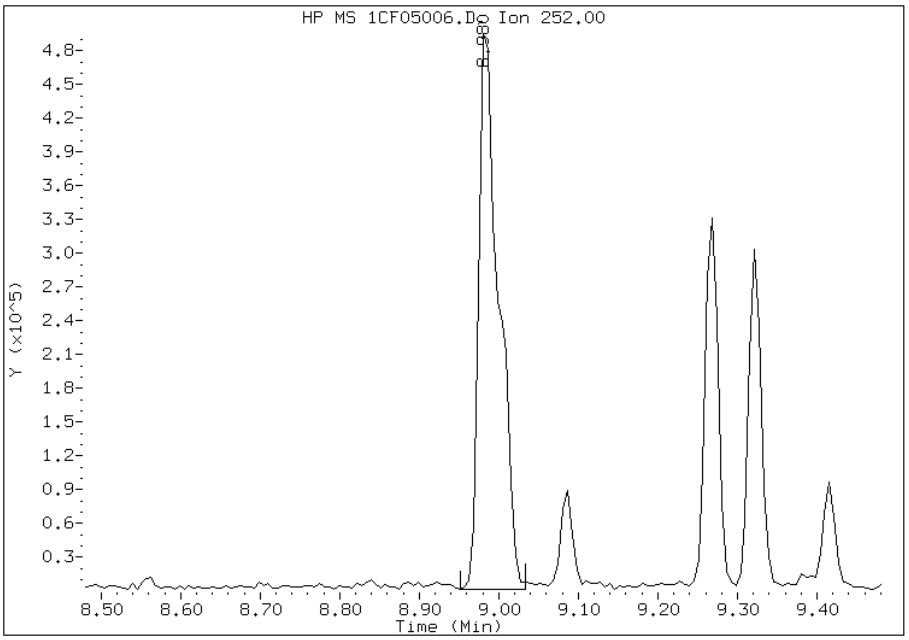
Processing Integration Results

RT: 8.98

Response: 869926

Amount: 11

Conc: 980



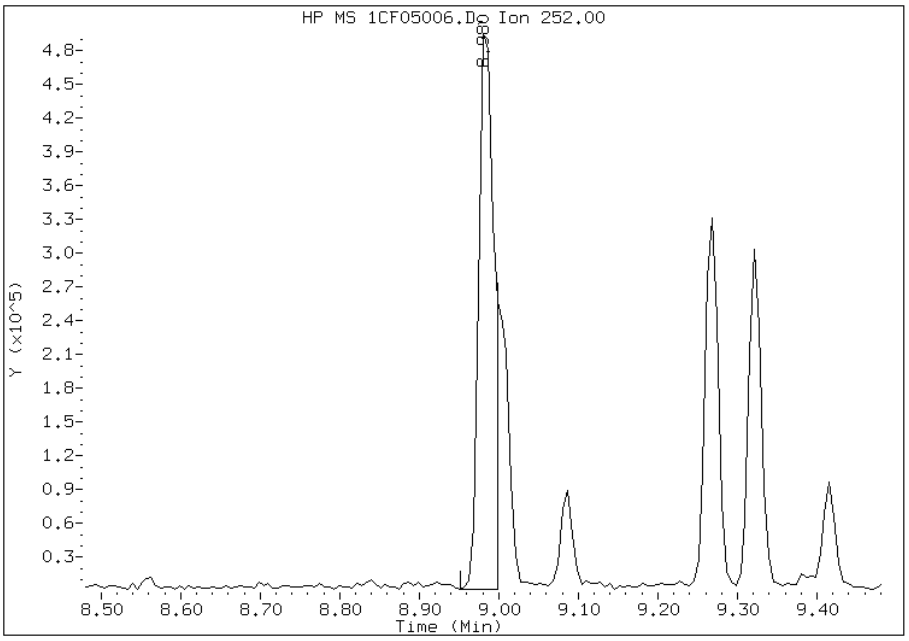
Manual Integration Results

RT: 8.98

Response: 664659

Amount: 8

Conc: 749



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 12:45
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF05006.D
Inj. Date and Time: 05-JUN-2013 12:20
Instrument ID: BSMC5973.i
Client ID: CV1015B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

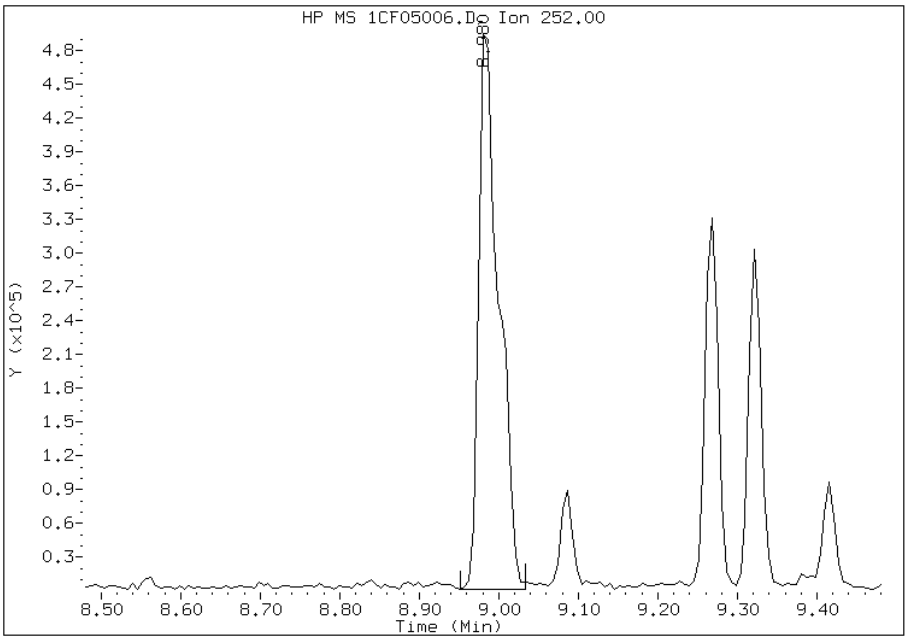
Processing Integration Results

RT: 8.98

Response: 870146

Amount: 10

Conc: 878



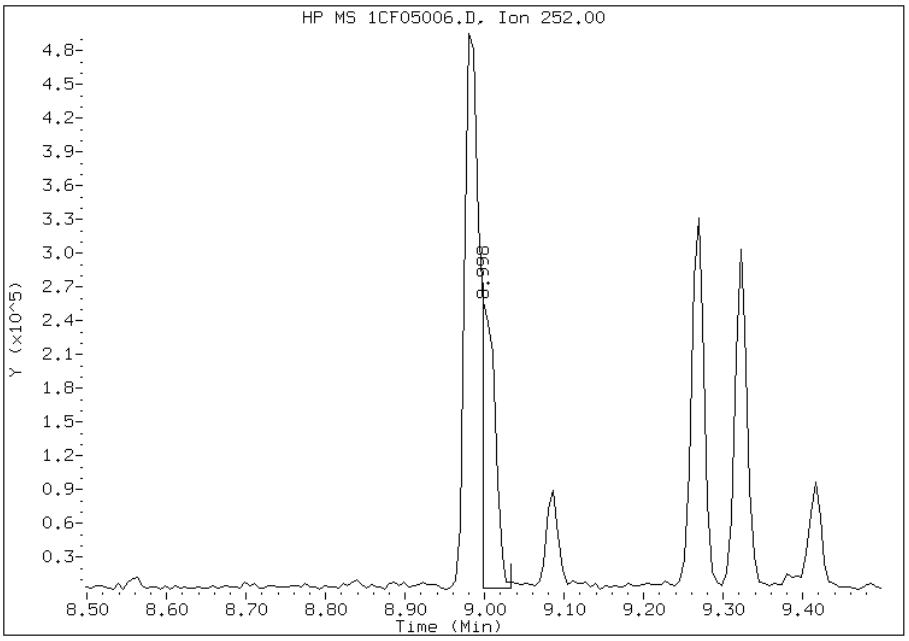
Manual Integration Results

RT: 9.00

Response: 293241

Amount: 3

Conc: 296



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 12:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF05006.D
Inj. Date and Time: 05-JUN-2013 12:20
Instrument ID: BSMC5973.i
Client ID: CV1015B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

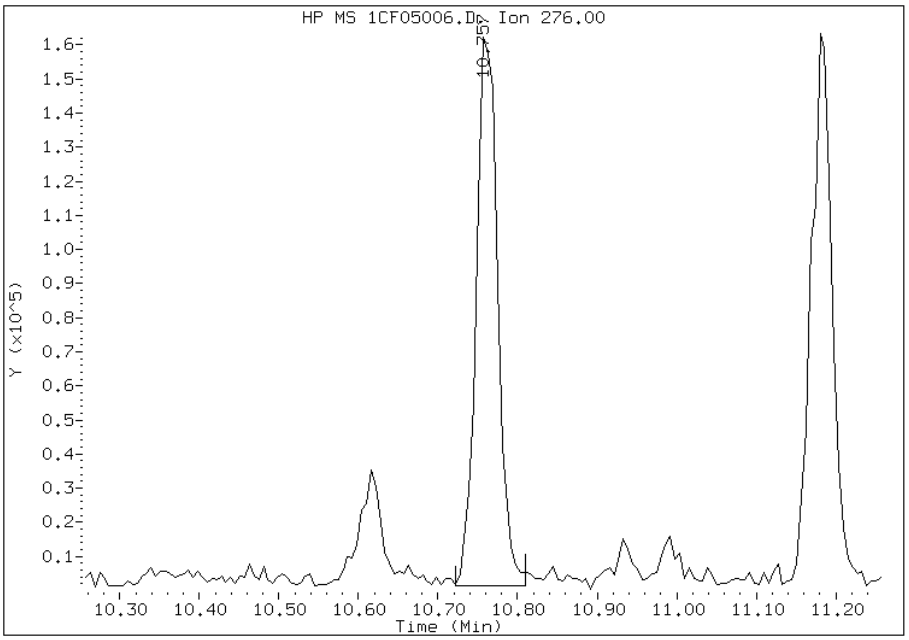
Processing Integration Results

RT: 10.76

Response: 301947

Amount: 4

Conc: 327



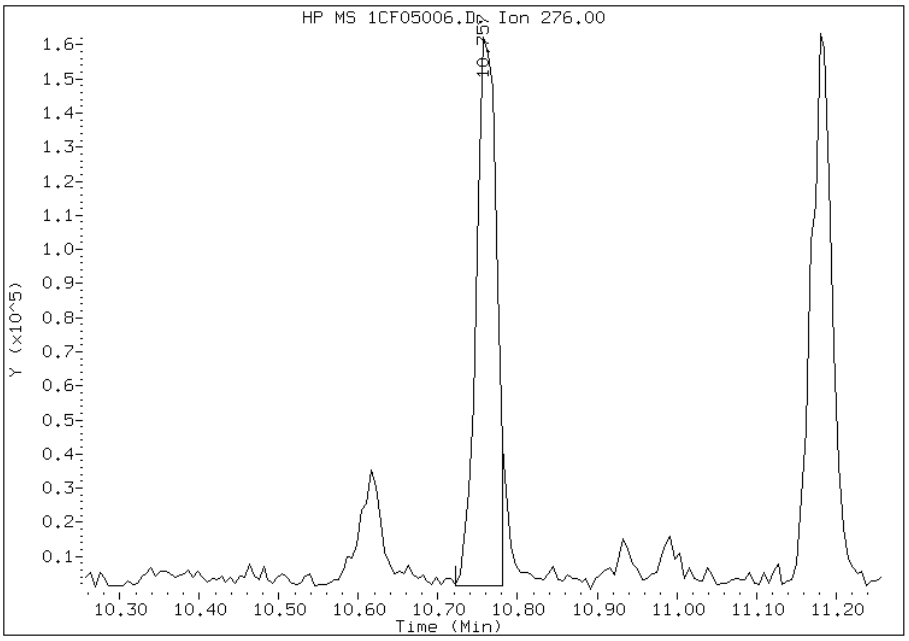
Manual Integration Results

RT: 10.76

Response: 283396

Amount: 3

Conc: 308



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 12:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV1111A-CS | Lab Sample ID: 680-90723-26

Matrix: Solid | Lab File ID: 1CF05007.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 12:46

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.08(g) | Date Analyzed: 06/05/2013 12:39

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

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

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	13	J	48	6.0
120-12-7	Anthracene	13		10	5.0
56-55-3	Benzo[a]anthracene	77		9.6	4.7
50-32-8	Benzo[a]pyrene	73		12	6.2
205-99-2	Benzo[b]fluoranthene	140		15	7.3
191-24-2	Benzo[g,h,i]perylene	71		24	5.3
207-08-9	Benzo[k]fluoranthene	48		9.6	4.3
218-01-9	Chrysene	150		11	5.4
53-70-3	Dibenz(a,h)anthracene	22	J	24	4.9
206-44-0	Fluoranthene	110		24	4.8
86-73-7	Fluorene	8.6	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	49		24	8.5
90-12-0	1-Methylnaphthalene	89		48	5.3
91-57-6	2-Methylnaphthalene	140		48	8.5
91-20-3	Naphthalene	60		48	5.3
85-01-8	Phenanthrene	120		9.6	4.7
129-00-0	Pyrene	99		24	4.4

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05007.D
Lab Smp Id: 680-90723-A-26-A Client Smp ID: CV1111A-CS
Inj Date : 05-JUN-2013 12:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-26-a
Misc Info : 680-90723-A-26-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	17.221	% 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	4.039	4.039	(1.000)	2346462	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1692914	40.0000	
* 10 Phenanthrene-d10	188	6.092	6.092	(1.000)	3237087	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.042)	207675	4.11845	329.9230
* 18 Chrysene-d12	240	8.057	8.056	(1.000)	3644201	40.0000	
* 23 Perylene-d12	264	9.386	9.392	(1.000)	3876072	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	49232	0.74350	59.5604
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	63867	1.73889	139.3004
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	40239	1.11354	89.2043
5 Acenaphthylene	152	5.033	5.039	(0.982)	10478	0.16145	12.9336
9 Fluorene	166	5.468	5.468	(1.067)	5572	0.10730	8.5956(Q)
11 Phenanthrene	178	6.110	6.110	(1.003)	141183	1.47624	118.2591
12 Anthracene	178	6.145	6.145	(1.009)	13890	0.15677	12.5585
13 Carbazole	167	6.245	6.251	(1.025)	10548	0.24230	19.4103

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.963	6.962	(1.143)	134740	1.37835	110.4180
16 Pyrene	202	7.133	7.133	(0.885)	121498	1.23468	98.9081
17 Benzo(a)anthracene	228	8.045	8.051	(0.999)	96438	0.95971	76.8807
19 Chrysene	228	8.074	8.074	(1.002)	185690	1.83538	147.0301
20 Benzo(b)fluoranthene	252	8.980	8.986	(0.957)	170075	1.78588	143.0644(M)
21 Benzo(k)fluoranthene	252	9.004	9.009	(0.959)	64118	0.60281	48.2902(QM)
22 Benzo(a)pyrene	252	9.321	9.327	(0.993)	78944	0.91133	73.0055
24 Indeno(1,2,3-cd)pyrene	276	10.762	10.768	(1.147)	47474	0.61638	49.3773(M)
25 Dibenzo(a,h)anthracene	278	10.768	10.786	(1.147)	23051	0.27863	22.3203
26 Benzo(g,h,i)perylene	276	11.180	11.186	(1.191)	80028	0.88873	71.1952

QC Flag Legend

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

Data File: 1CF05007.D

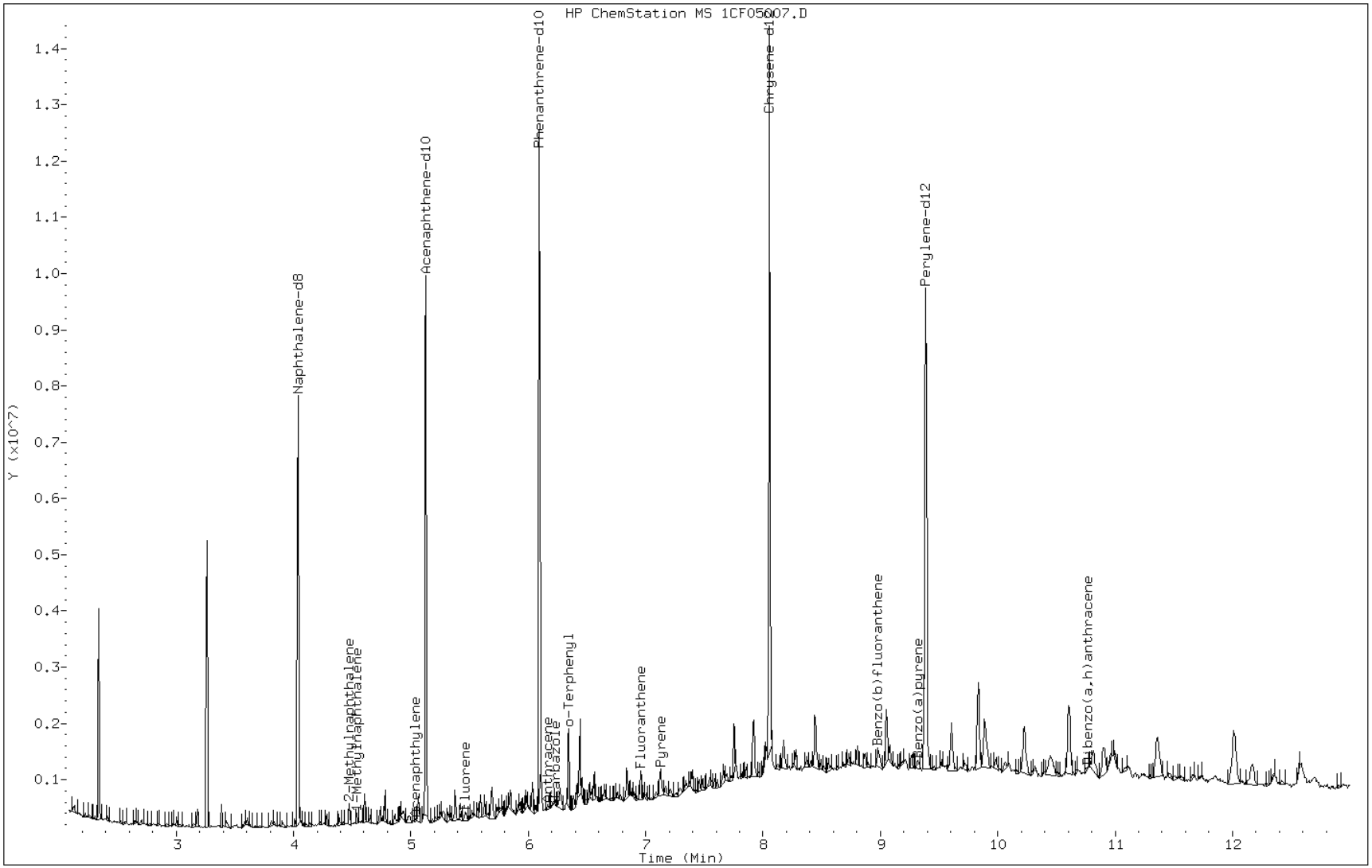
Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS

Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a

Operator: SCC



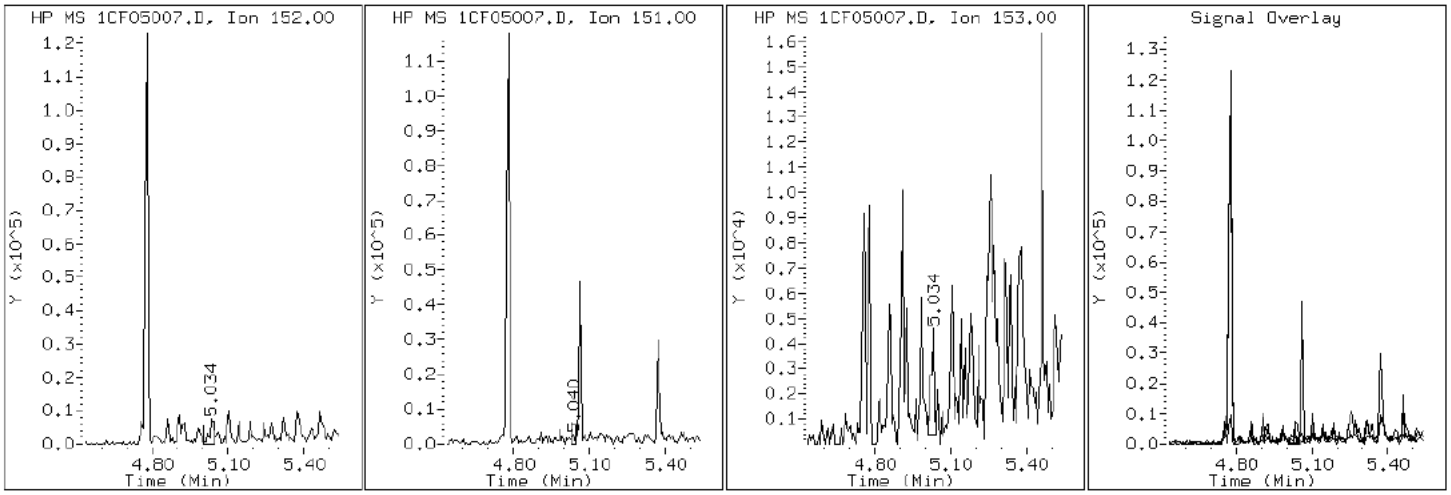
Data File: 1CF05007.D

Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a Operator: SCC

5 Acenaphthylene



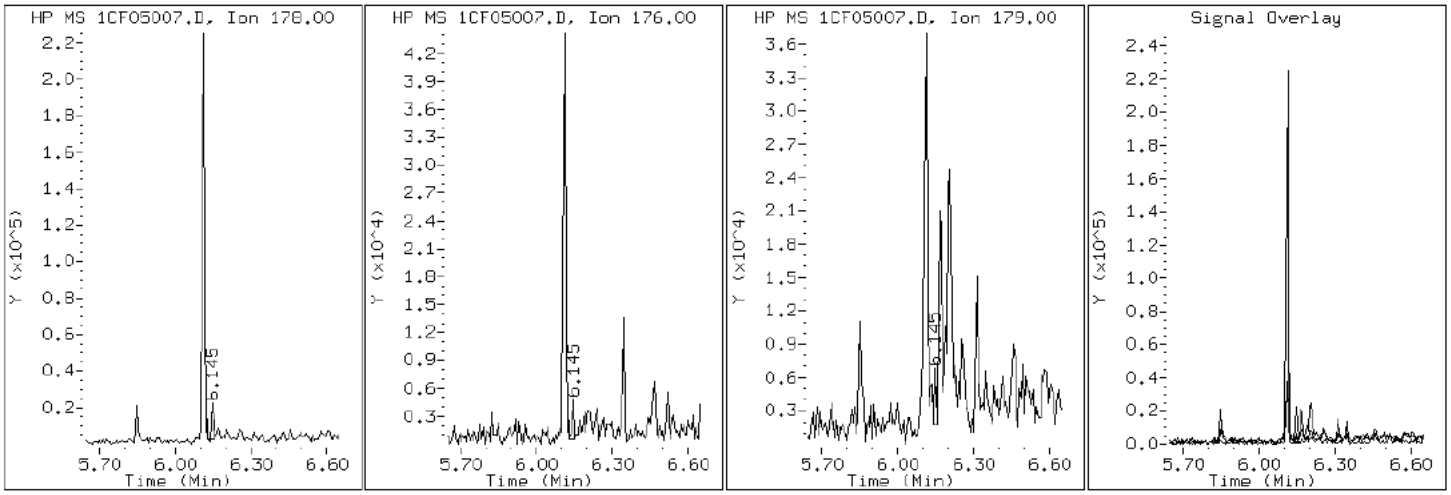
Data File: 1CF05007.D

Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a Operator: SCC

12 Anthracene



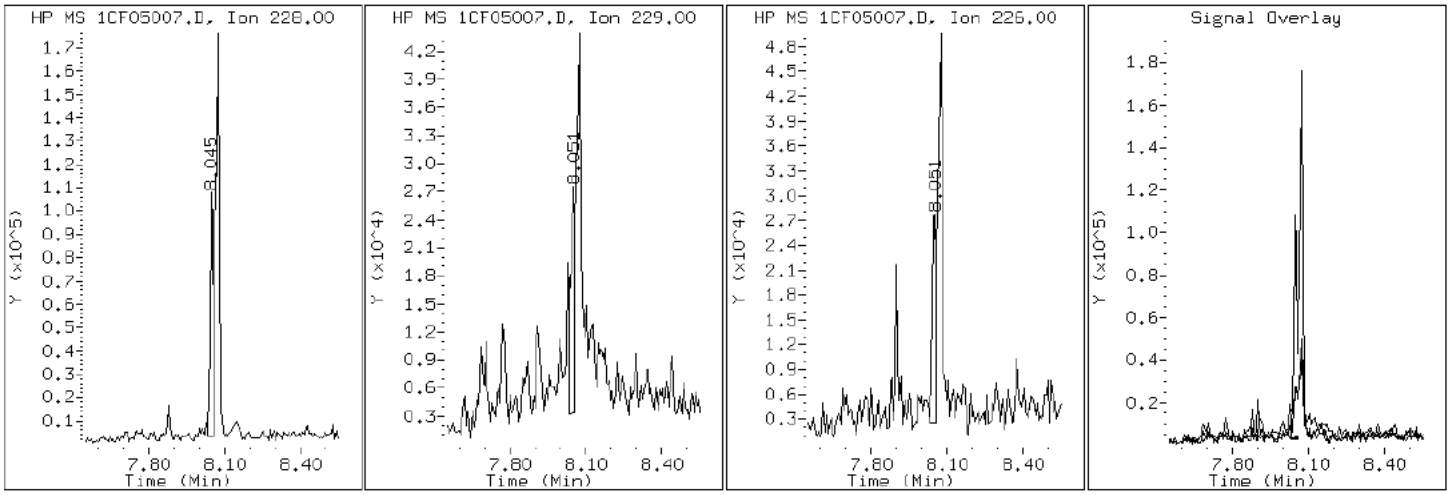
Data File: 1CF05007.D

Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a Operator: SCC

17 Benzo(a)anthracene



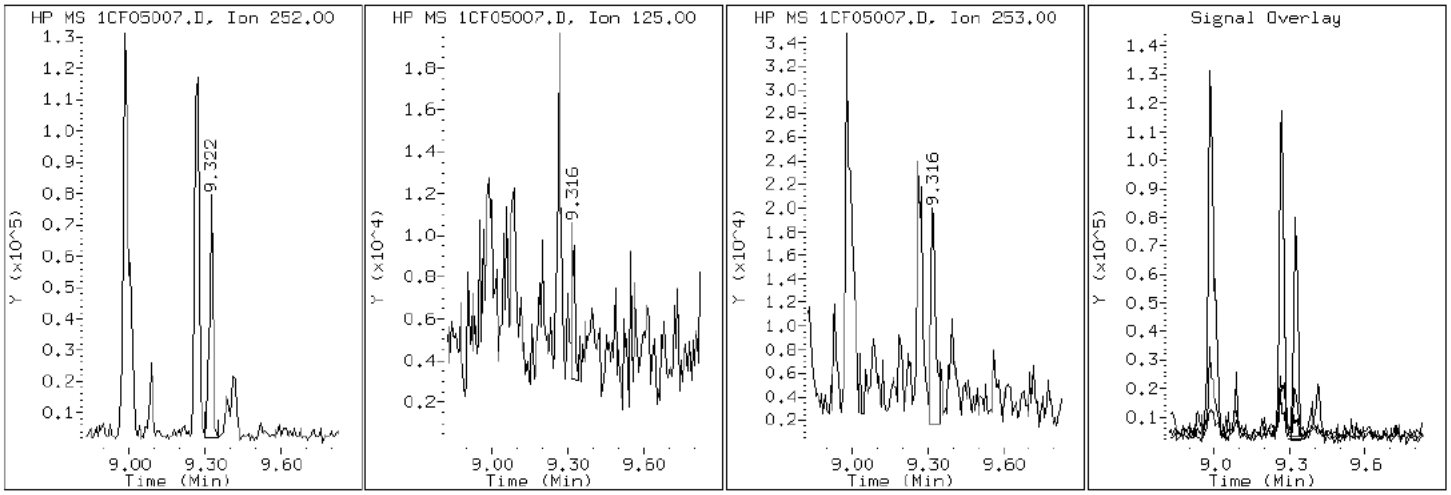
Data File: 1CF05007.D

Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a Operator: SCC

22 Benzo(a)pyrene



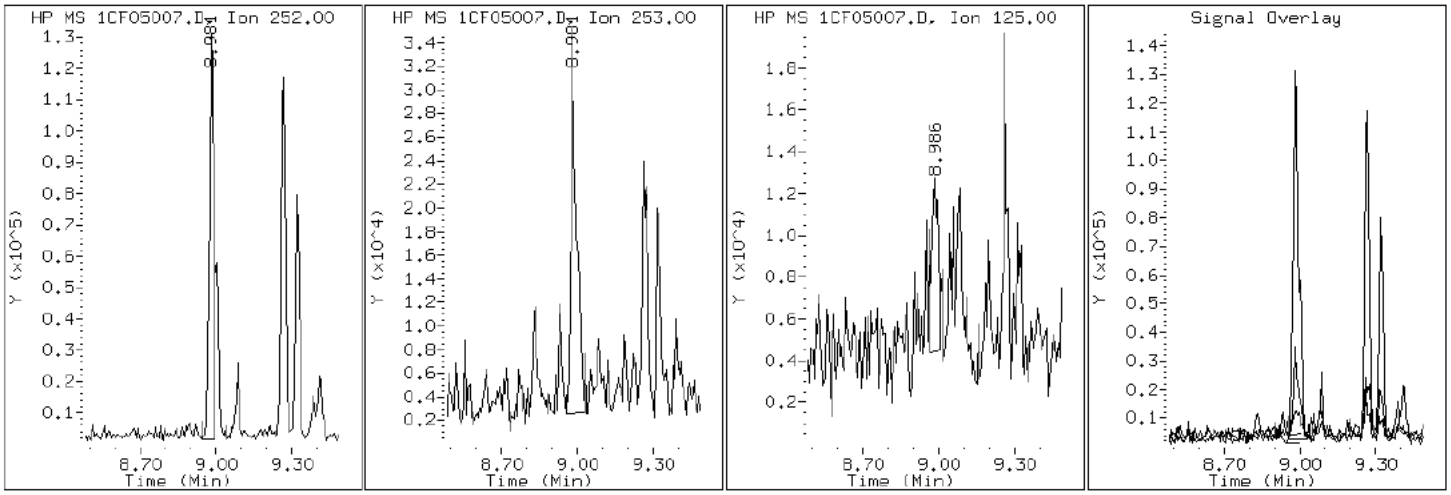
Data File: 1CF05007.D

Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a Operator: SCC

20 Benzo(b)fluoranthene



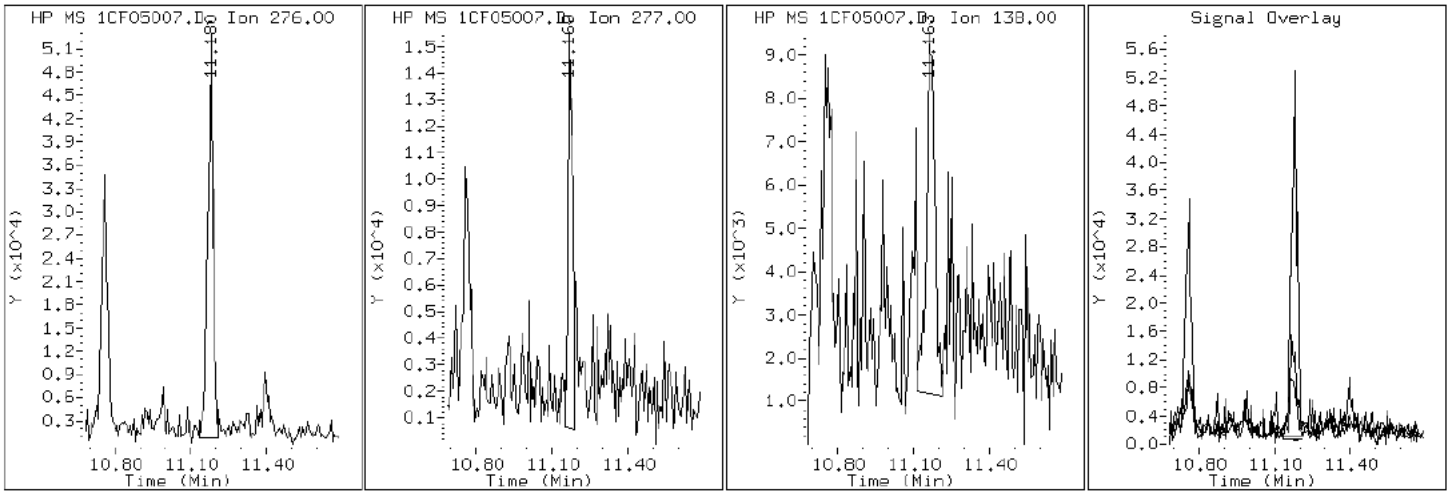
Data File: 1CF05007.D

Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a Operator: SCC

26 Benzo(g,h,i)perylene



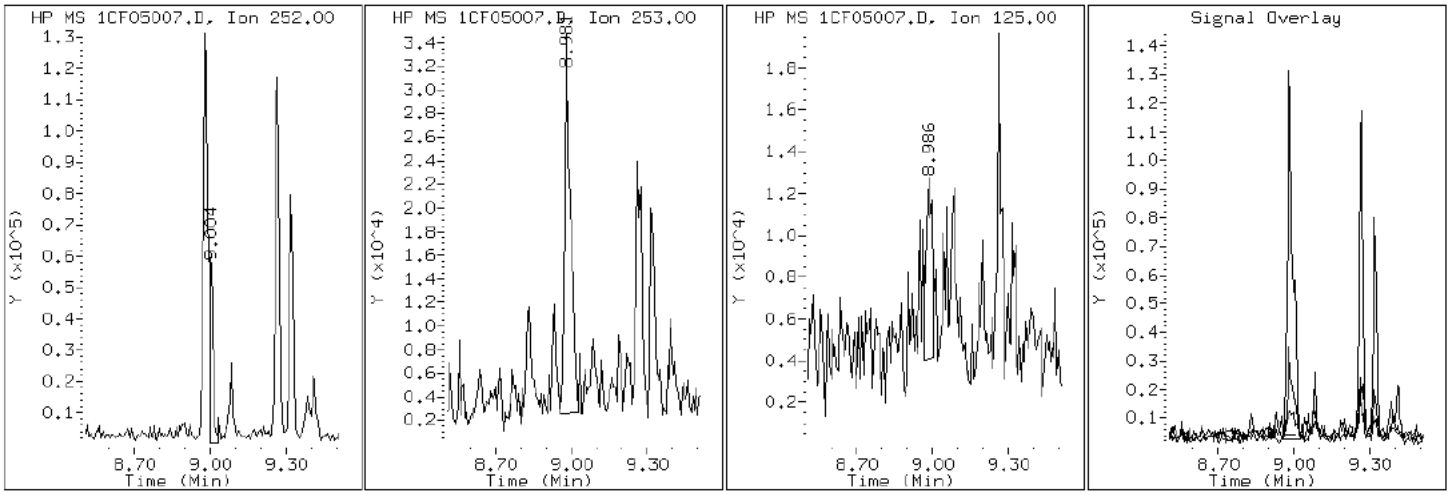
Data File: 1CF05007.D

Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a Operator: SCC

21 Benzo(k)fluoranthene



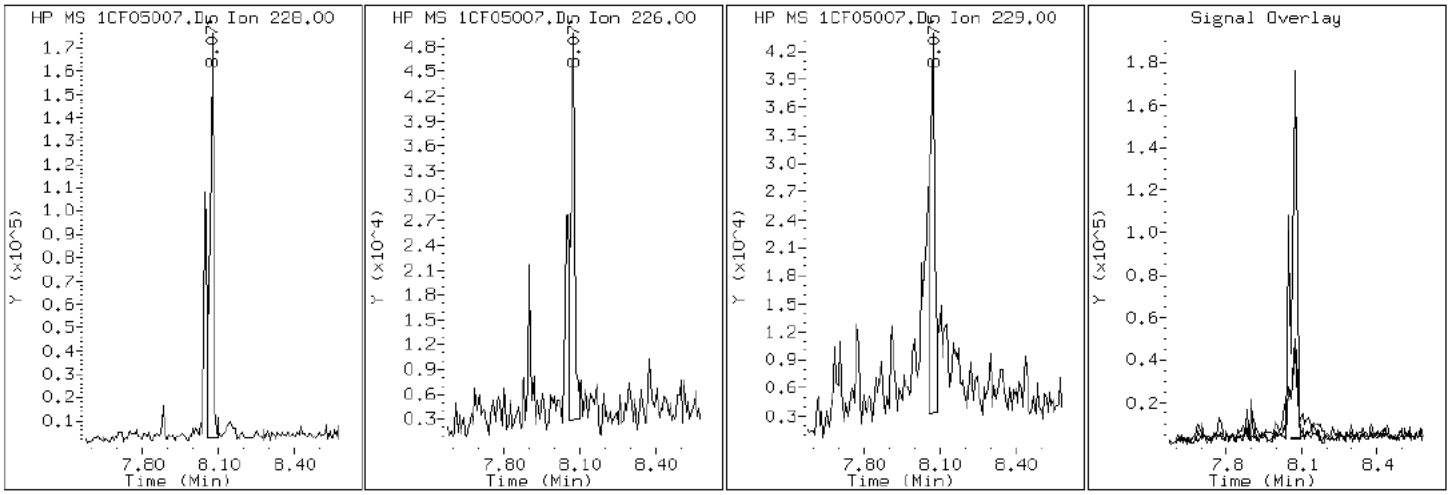
Data File: 1CF05007.D

Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a Operator: SCC

19 Chrysene



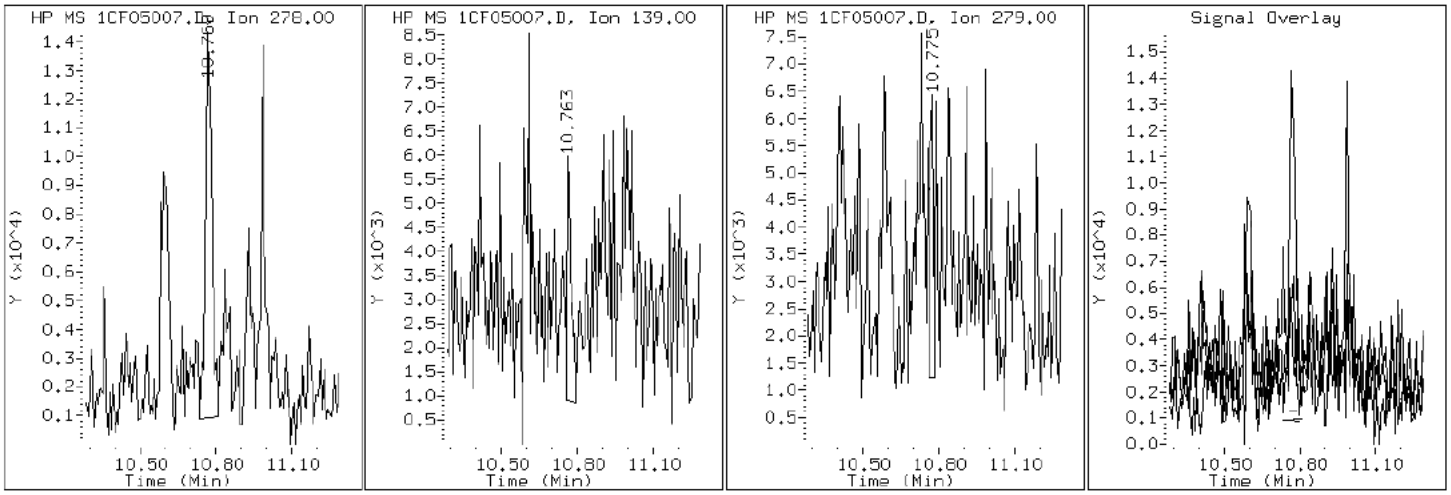
Data File: 1CF05007.D

Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS | Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a | Operator: SCC

25 Dibenzo(a,h)anthracene



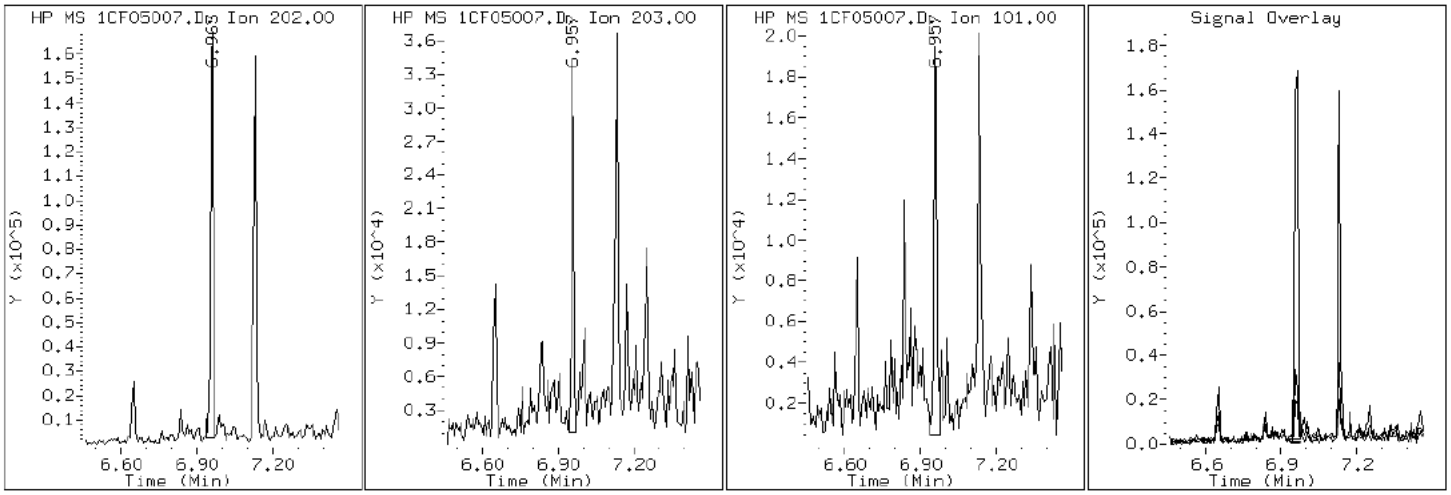
Data File: 1CF05007.D

Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a Operator: SCC

15 Fluoranthene



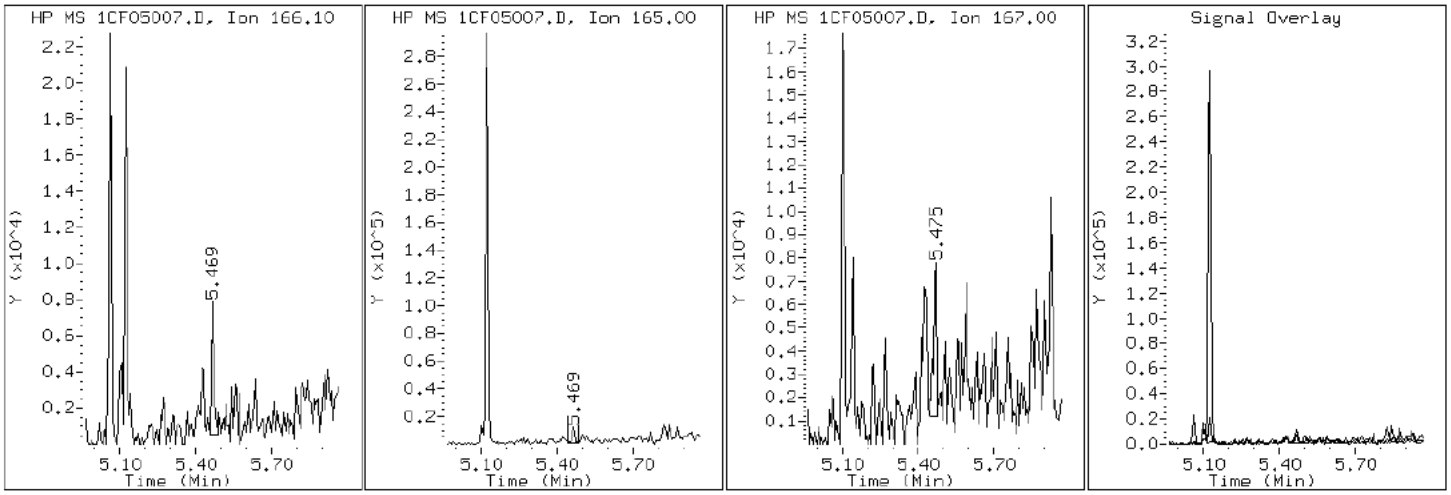
Data File: 1CF05007.D

Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a Operator: SCC

9 Fluorene



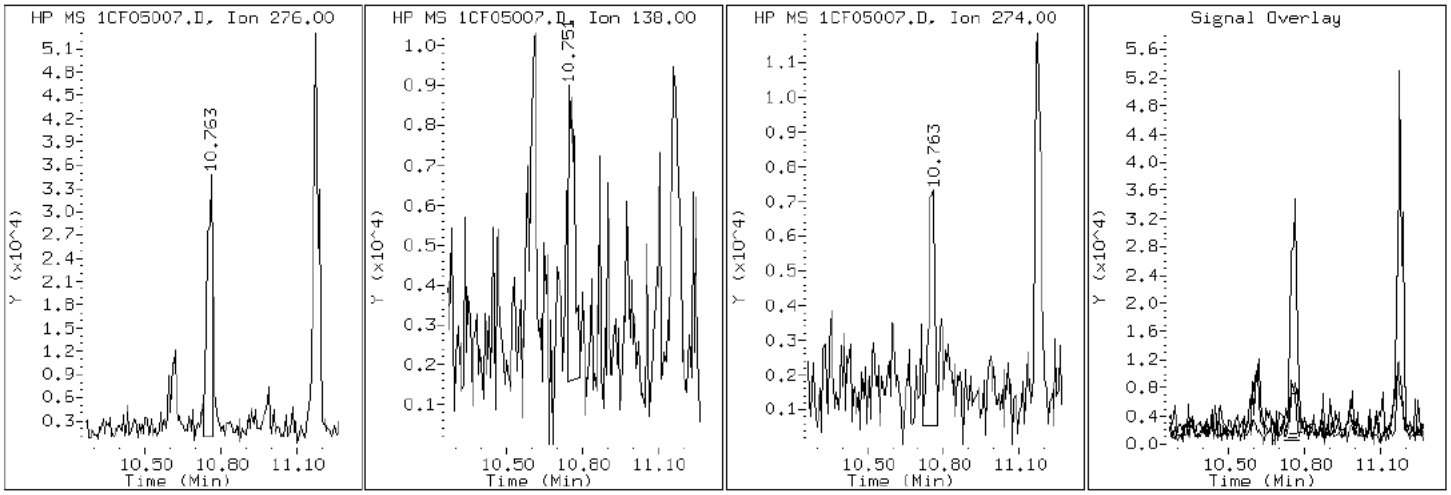
Data File: 1CF05007.D

Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a Operator: SCC

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



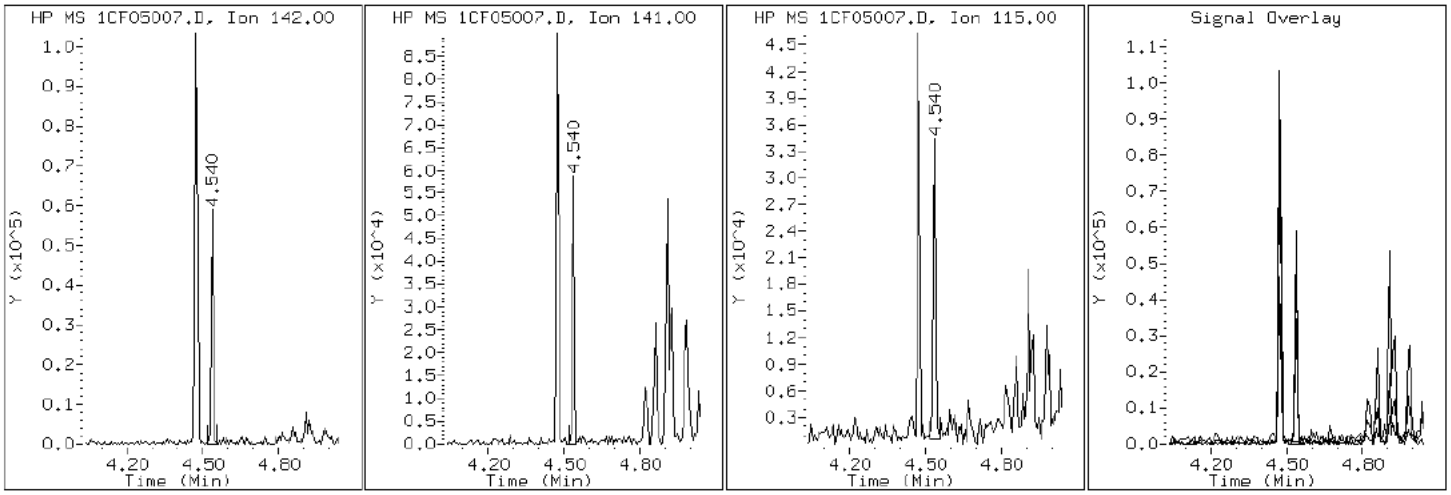
Data File: 1CF05007.D

Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a Operator: SCC

4 1-Methylnaphthalene



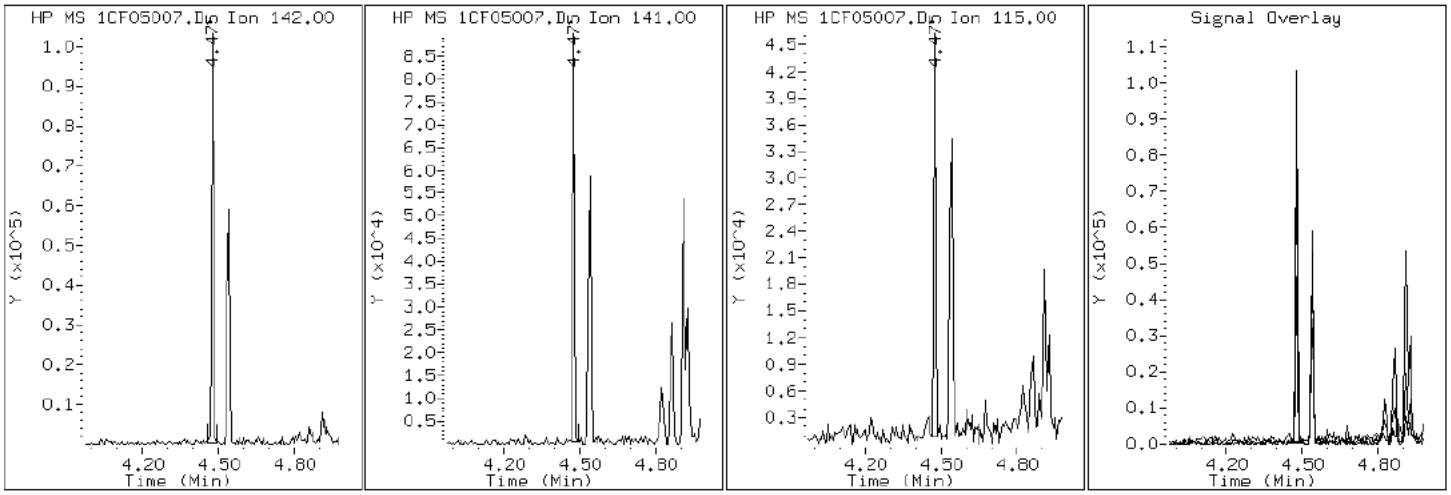
Data File: 1CF05007.D

Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a Operator: SCC

3 2-Methylnaphthalene



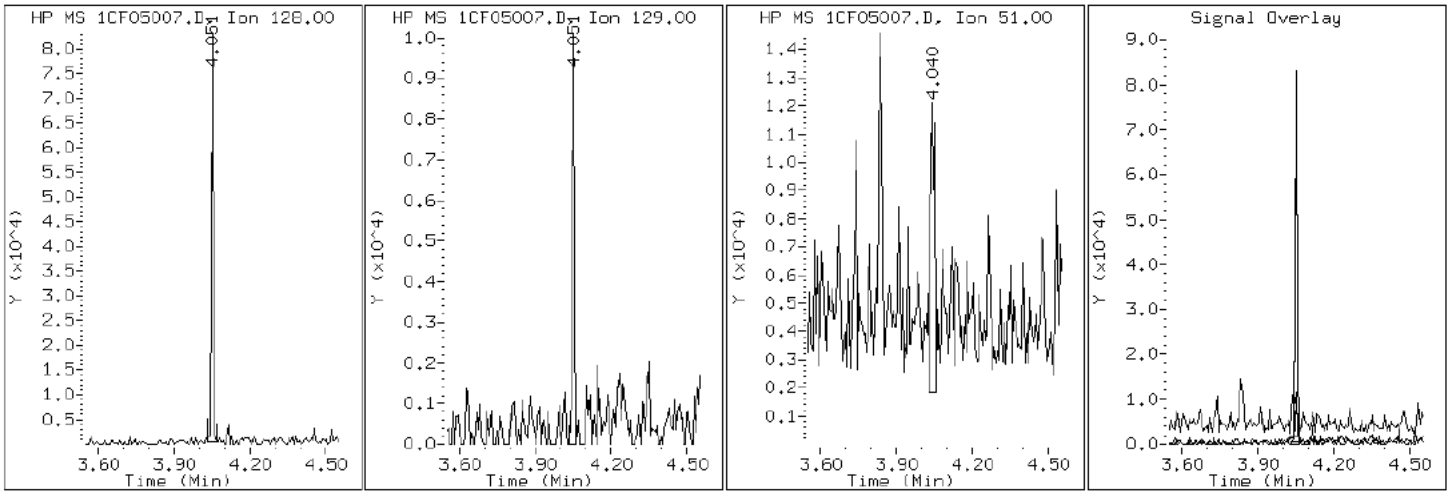
Data File: 1CF05007.D

Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a Operator: SCC

2 Naphthalene



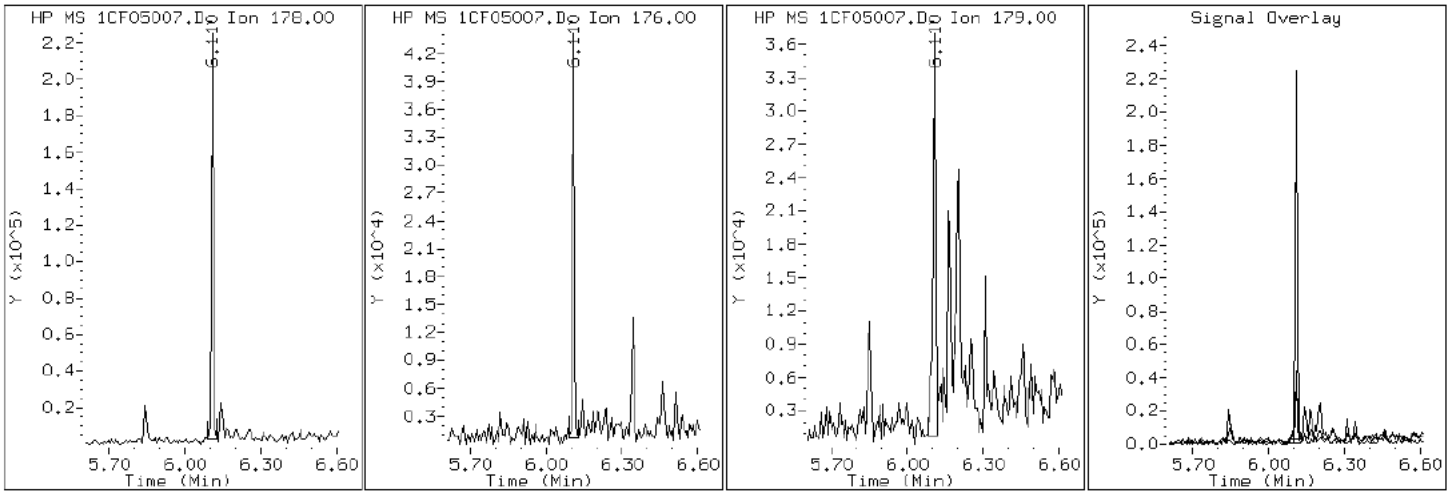
Data File: 1CF05007.D

Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a Operator: SCC

11 Phenanthrene



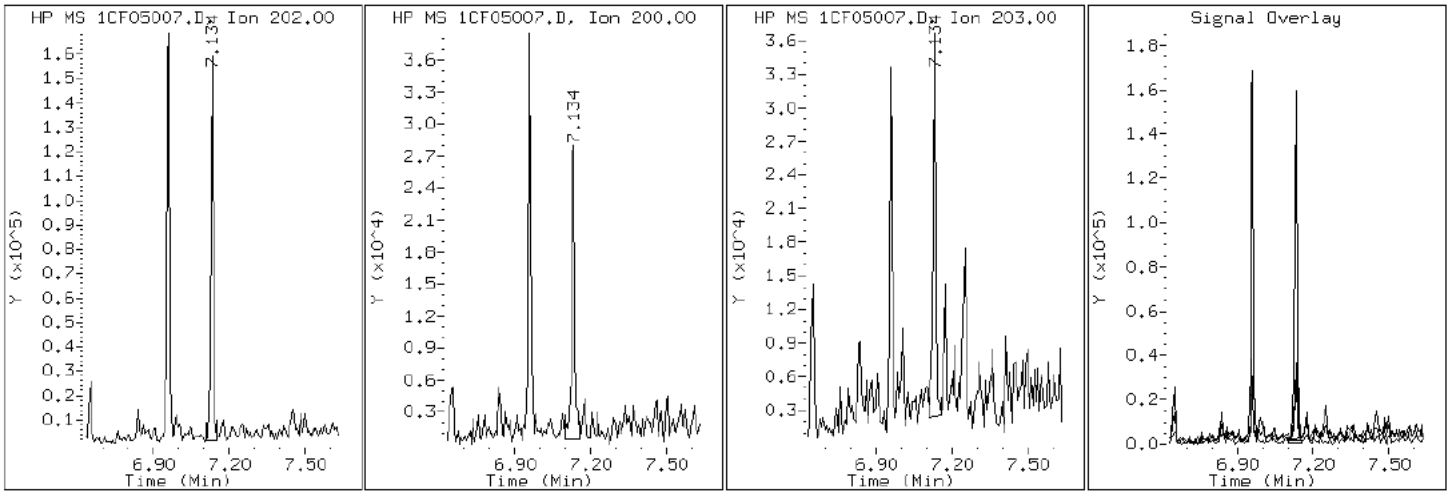
Data File: 1CF05007.D

Date: 05-JUN-2013 12:39

Client ID: CV1111A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-26-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF05007.D
Inj. Date and Time: 05-JUN-2013 12:39
Instrument ID: BSMC5973.i
Client ID: CV1111A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

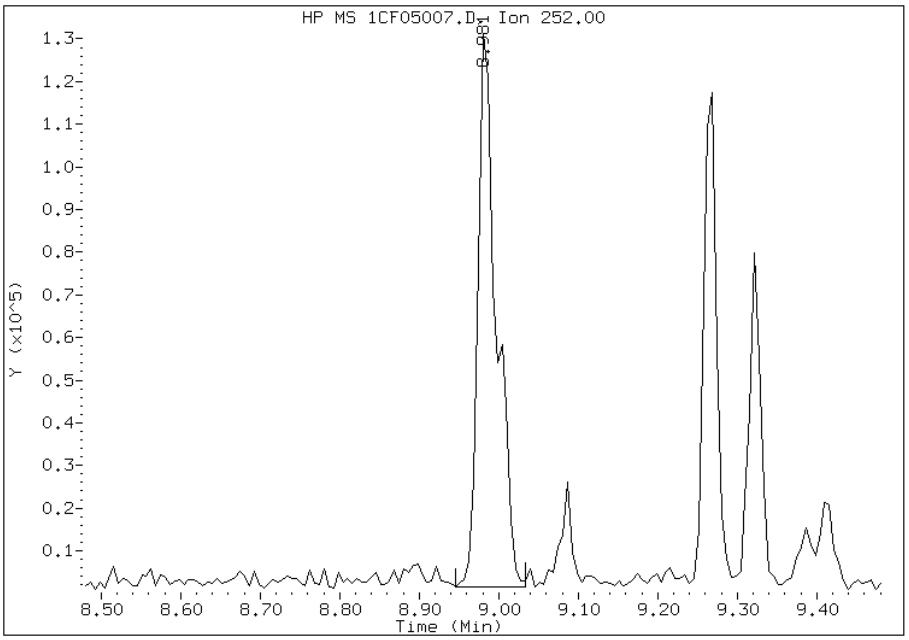
Processing Integration Results

RT: 8.98

Response: 213226

Amount: 2

Conc: 179



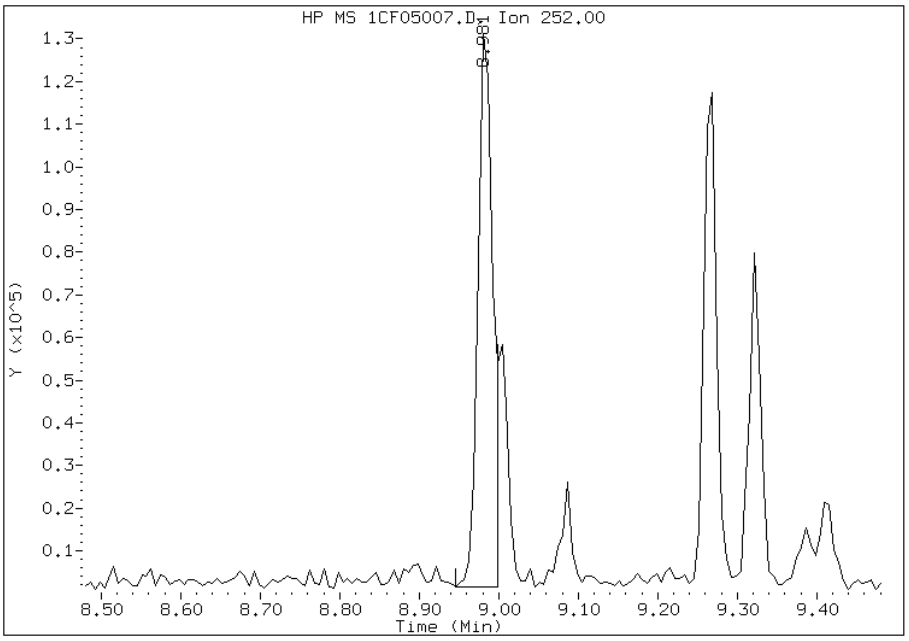
Manual Integration Results

RT: 8.98

Response: 170075

Amount: 2

Conc: 143



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:55
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF05007.D
Inj. Date and Time: 05-JUN-2013 12:39
Instrument ID: BSMC5973.i
Client ID: CV1111A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

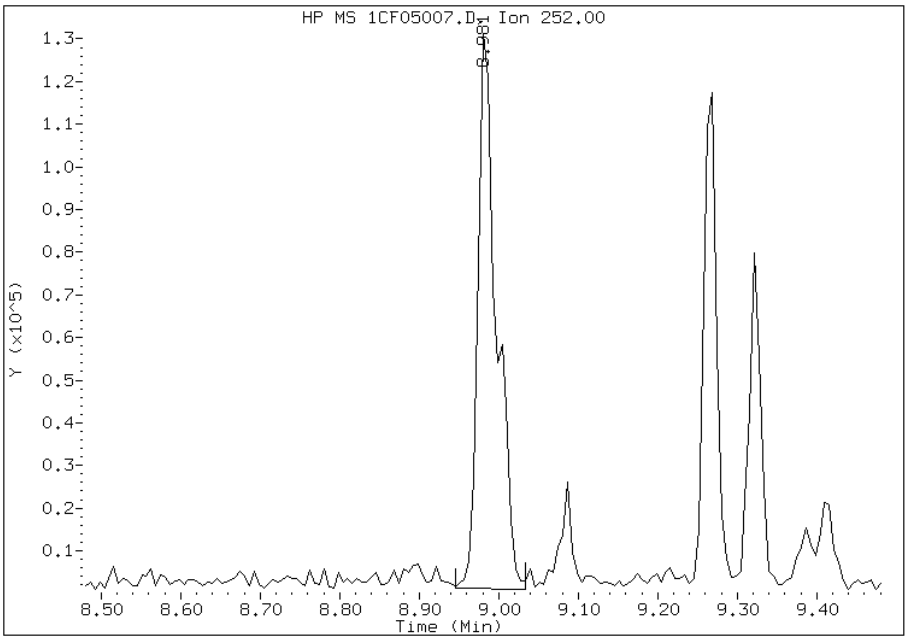
Processing Integration Results

RT: 8.98

Response: 215081

Amount: 2

Conc: 162



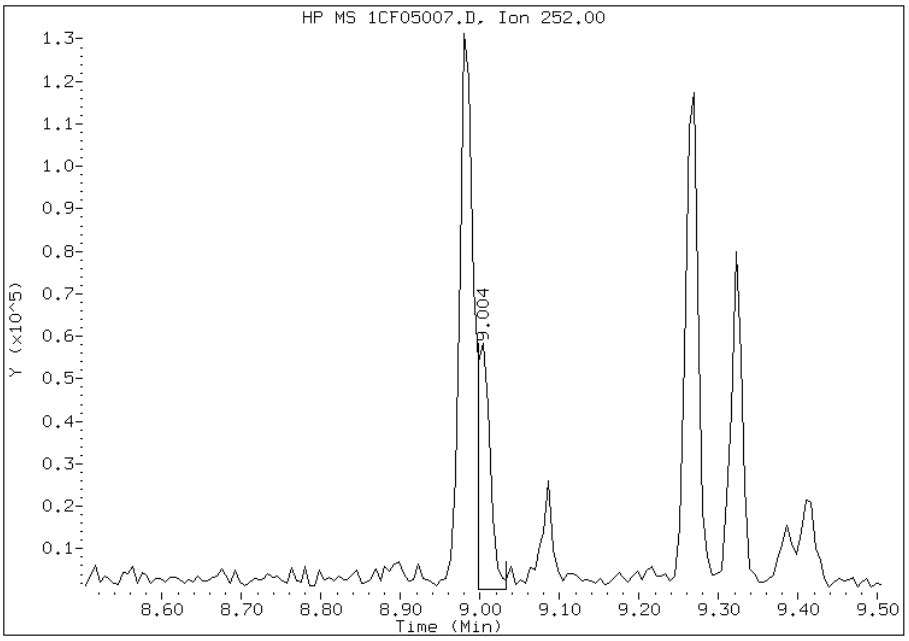
Manual Integration Results

RT: 9.00

Response: 64118

Amount: 1

Conc: 48



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:56
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF05007.D
Inj. Date and Time: 05-JUN-2013 12:39
Instrument ID: BSMC5973.i
Client ID: CV1111A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

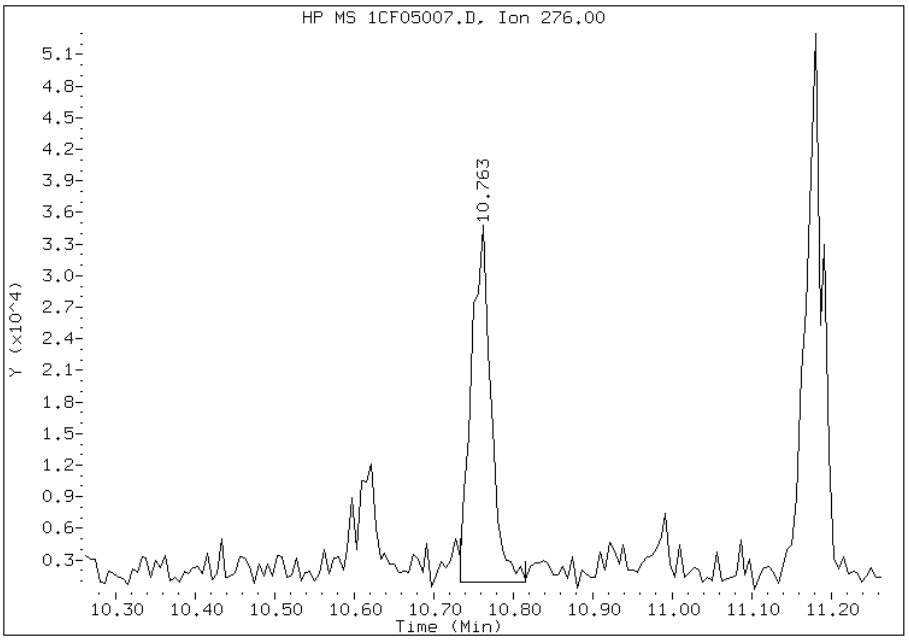
Processing Integration Results

RT: 10.76

Response: 58133

Amount: 1

Conc: 58



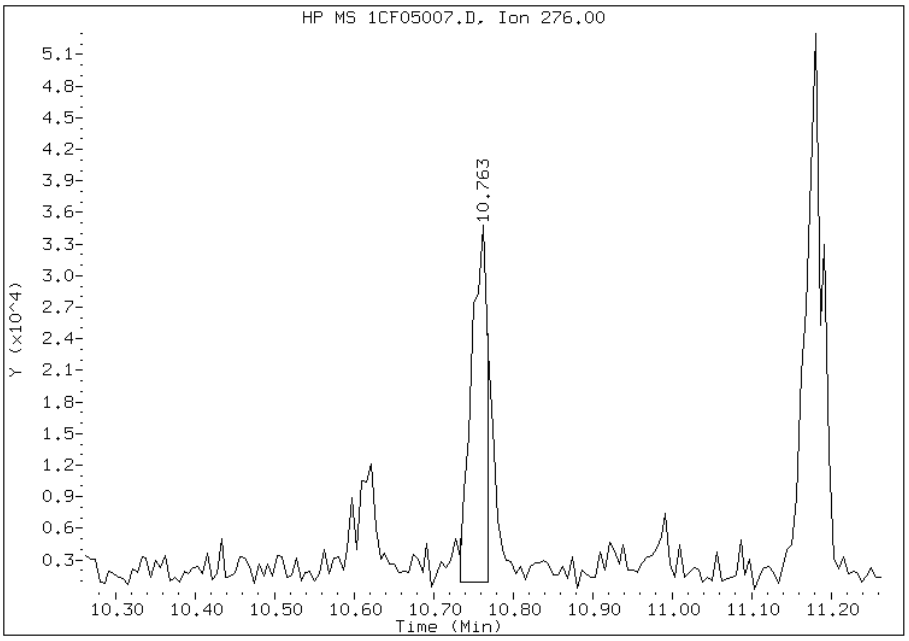
Manual Integration Results

RT: 10.76

Response: 47474

Amount: 1

Conc: 49



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:56
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV0315A-CS | Lab Sample ID: 680-90723-27

Matrix: Solid | Lab File ID: 1CF05008.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 14:45

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.08(g) | Date Analyzed: 06/05/2013 12:57

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

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

% Moisture: 19.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	27	J	50	6.2
120-12-7	Anthracene	34		10	5.2
56-55-3	Benzo[a]anthracene	240		9.9	4.8
50-32-8	Benzo[a]pyrene	270		13	6.5
205-99-2	Benzo[b]fluoranthene	470		15	7.6
191-24-2	Benzo[g,h,i]perylene	270		25	5.5
207-08-9	Benzo[k]fluoranthene	180		9.9	4.5
218-01-9	Chrysene	360		11	5.6
53-70-3	Dibenz(a,h)anthracene	67		25	5.1
206-44-0	Fluoranthene	360		25	5.0
86-73-7	Fluorene	21	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	160		25	8.8
90-12-0	1-Methylnaphthalene	120		50	5.5
91-57-6	2-Methylnaphthalene	160		50	8.8
91-20-3	Naphthalene	110		50	5.5
85-01-8	Phenanthrene	270		9.9	4.8
129-00-0	Pyrene	330		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05008.D
Lab Smp Id: 680-90723-A-27-A Client Smp ID: CV0315A-CS
Inj Date : 05-JUN-2013 12:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-27-a
Misc Info : 680-90723-A-27-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	19.828	% 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	4.039	4.039	(1.000)	2417198	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1745013	40.0000	
* 10 Phenanthrene-d10	188	6.092	6.092	(1.000)	3249252	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.042)	303620	5.99861	496.1628
* 18 Chrysene-d12	240	8.057	8.056	(1.000)	3552909	40.0000	
* 23 Perylene-d12	264	9.386	9.392	(1.000)	3398455	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	93519	1.37098	113.3981
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	71943	1.90146	157.2752
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	54425	1.46204	120.9296
5 Acenaphthylene	152	5.039	5.039	(0.983)	21681	0.32410	26.8071
7 Acenaphthene	154	5.145	5.145	(1.003)	10005	0.23850	19.7266
9 Fluorene	166	5.468	5.468	(1.067)	13310	0.24866	20.5673(Q)
11 Phenanthrene	178	6.110	6.110	(1.003)	318833	3.32129	274.7141
12 Anthracene	178	6.145	6.145	(1.009)	36411	0.40941	33.8636

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.251	6.251	(1.026)	33797	0.52172	43.1529
15 Fluoranthene	202	6.962	6.962	(1.143)	426234	4.34393	359.2997
16 Pyrene	202	7.133	7.133	(0.885)	387948	4.04367	334.4639
17 Benzo(a)anthracene	228	8.045	8.051	(0.999)	281572	2.87407	237.7232
19 Chrysene	228	8.074	8.074	(1.002)	428020	4.33931	358.9174
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	473491	5.67066	469.0376(M)
21 Benzo(k)fluoranthene	252	8.998	9.009	(0.959)	199461	2.13879	176.9058(M)
22 Benzo(a)pyrene	252	9.321	9.327	(0.993)	271247	3.27723	271.0694
24 Indeno(1,2,3-cd)pyrene	276	10.762	10.768	(1.147)	166766	1.99317	164.8614(M)
25 Dibenzo(a,h)anthracene	278	10.774	10.786	(1.148)	59027	0.81375	67.3079
26 Benzo(g,h,i)perylene	276	11.186	11.186	(1.192)	257962	3.26735	270.2524

QC Flag Legend

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

Data File: 1CF05008.D

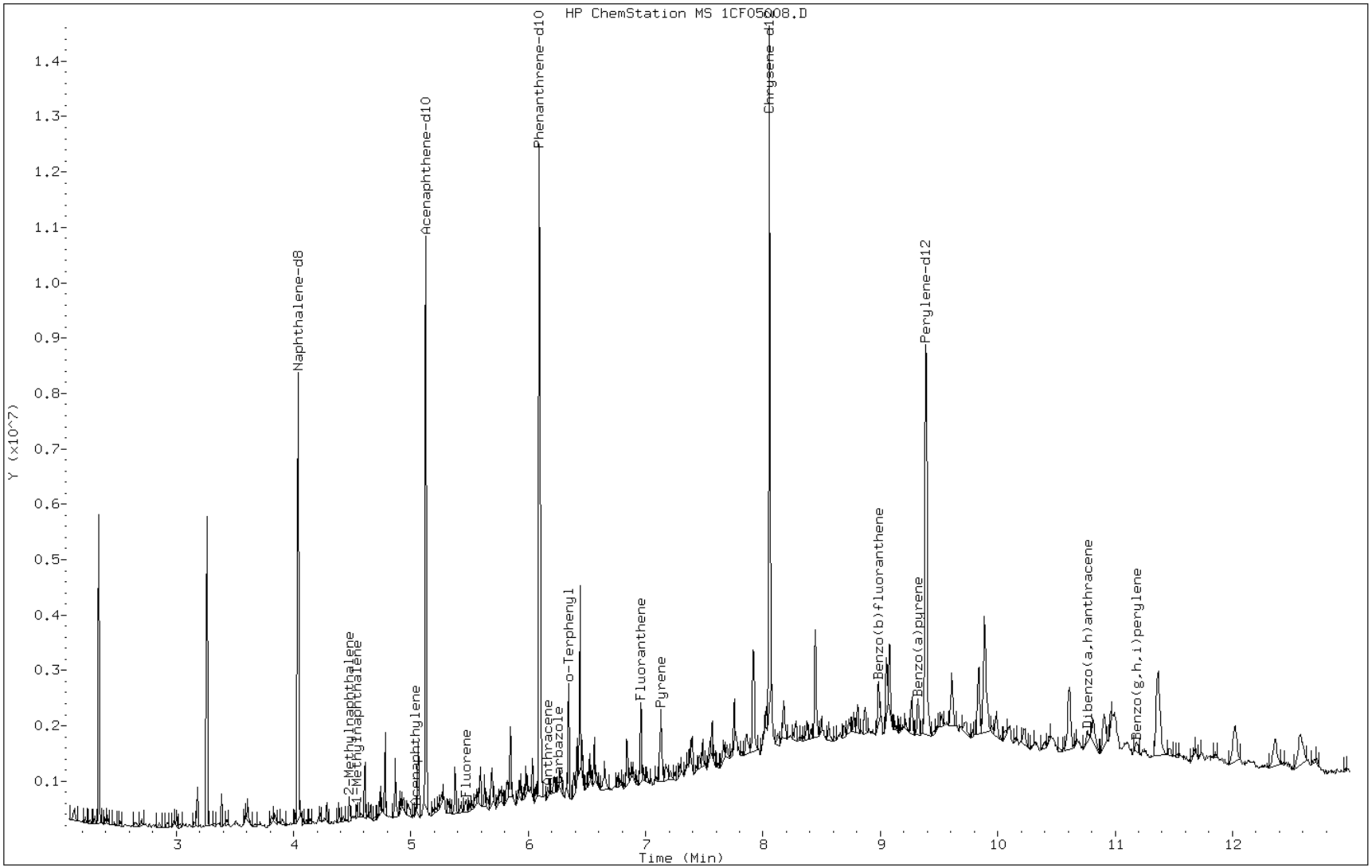
Date: 05-JUN-2013 12:57

Client ID: CV0315A-CS

Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a

Operator: SCC



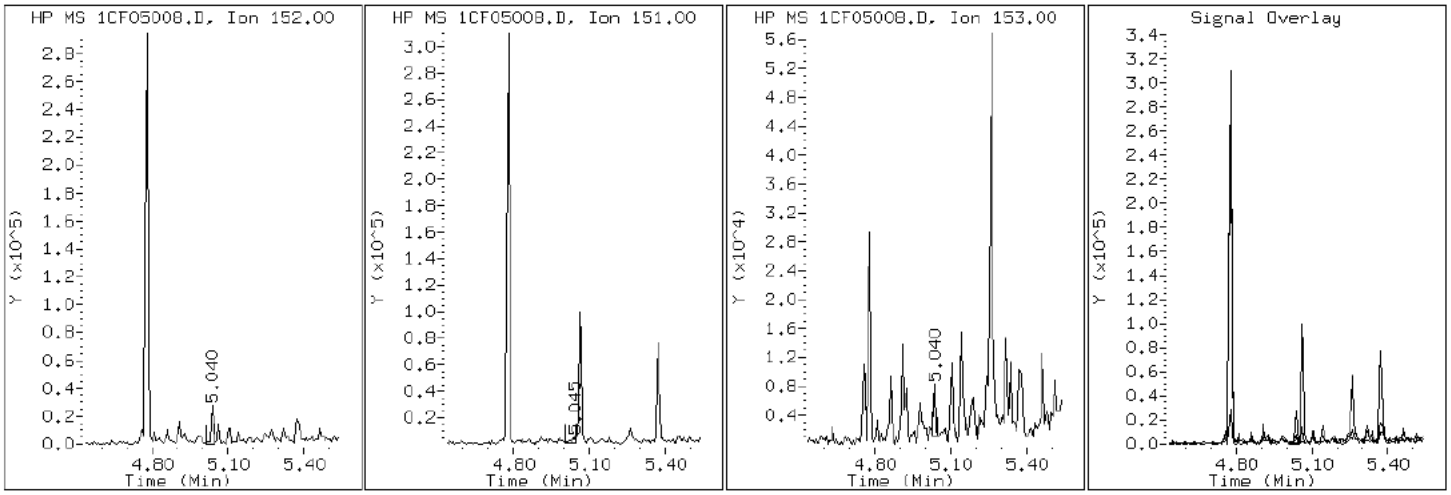
Data File: 1CF05008.D

Date: 05-JUN-2013 12:57

Client ID: CV0315A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a Operator: SCC

5 Acenaphthylene



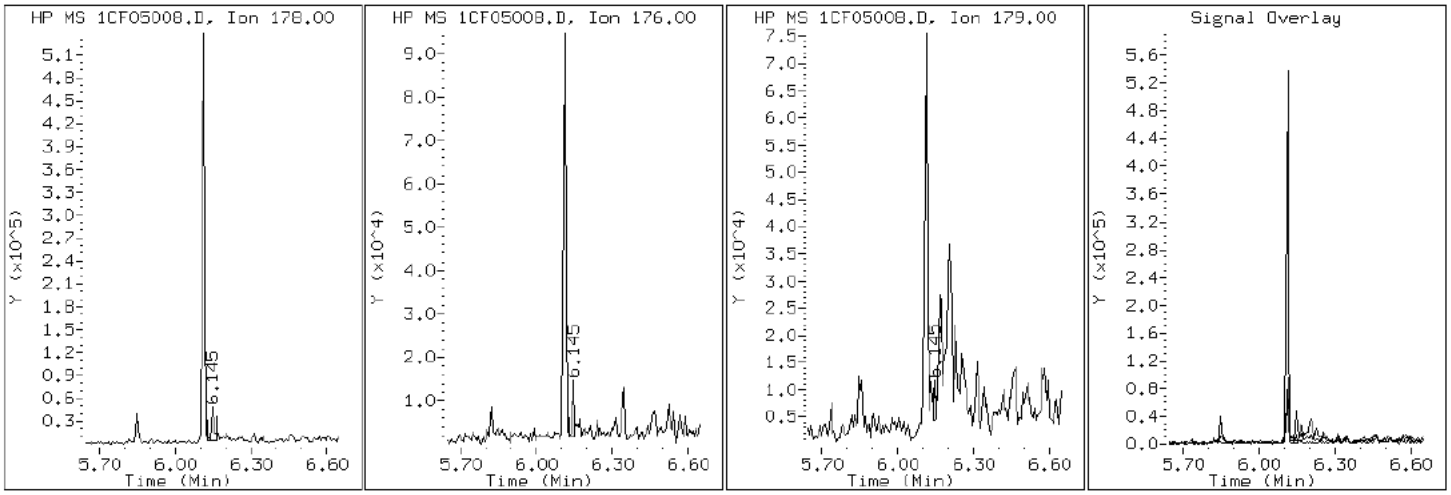
Data File: 1CF05008.D

Date: 05-JUN-2013 12:57

Client ID: CV0315A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a Operator: SCC

12 Anthracene



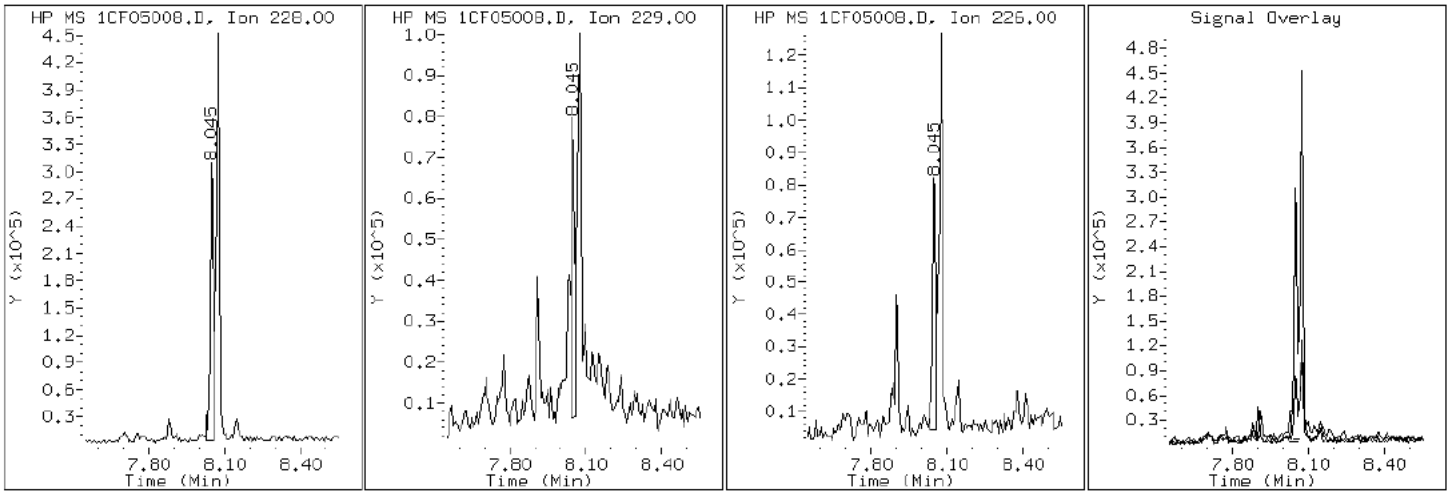
Data File: 1CF05008.D

Date: 05-JUN-2013 12:57

Client ID: CV0315A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a Operator: SCC

17 Benzo(a)anthracene



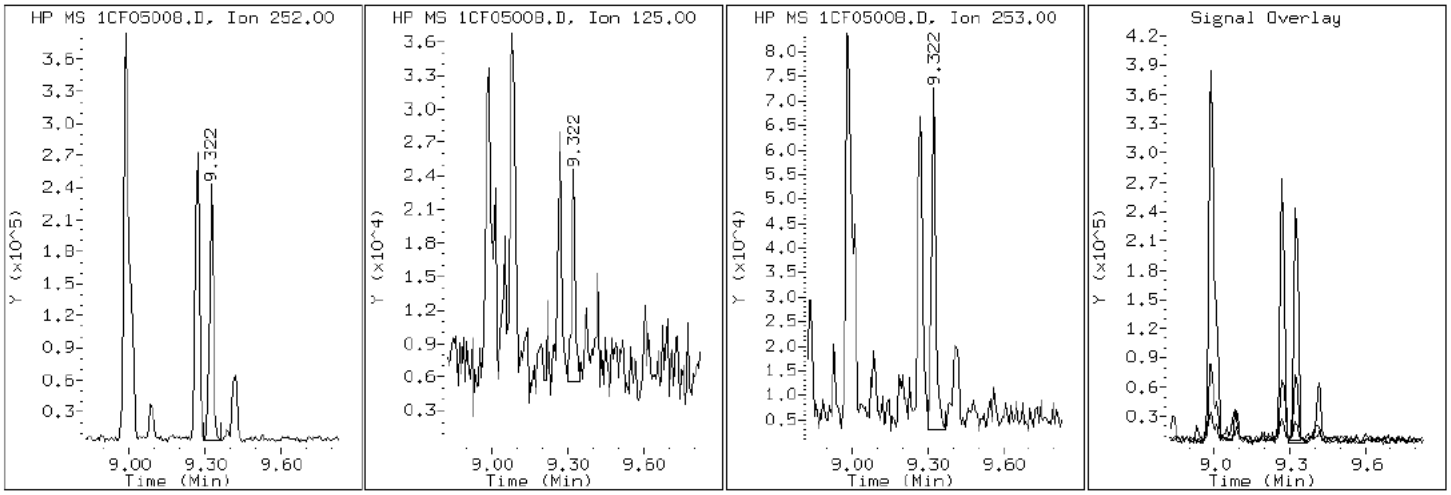
Data File: 1CF05008.D

Date: 05-JUN-2013 12:57

Client ID: CV0315A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a Operator: SCC

22 Benzo(a)pyrene



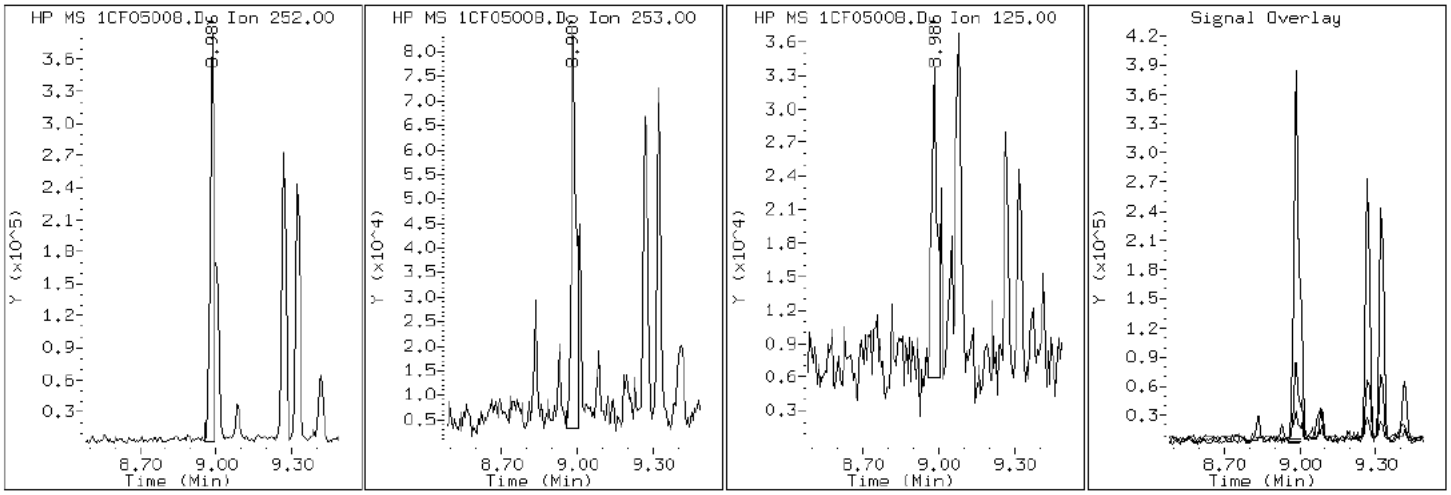
Data File: 1CF05008.D

Date: 05-JUN-2013 12:57

Client ID: CV0315A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a Operator: SCC

20 Benzo(b)fluoranthene



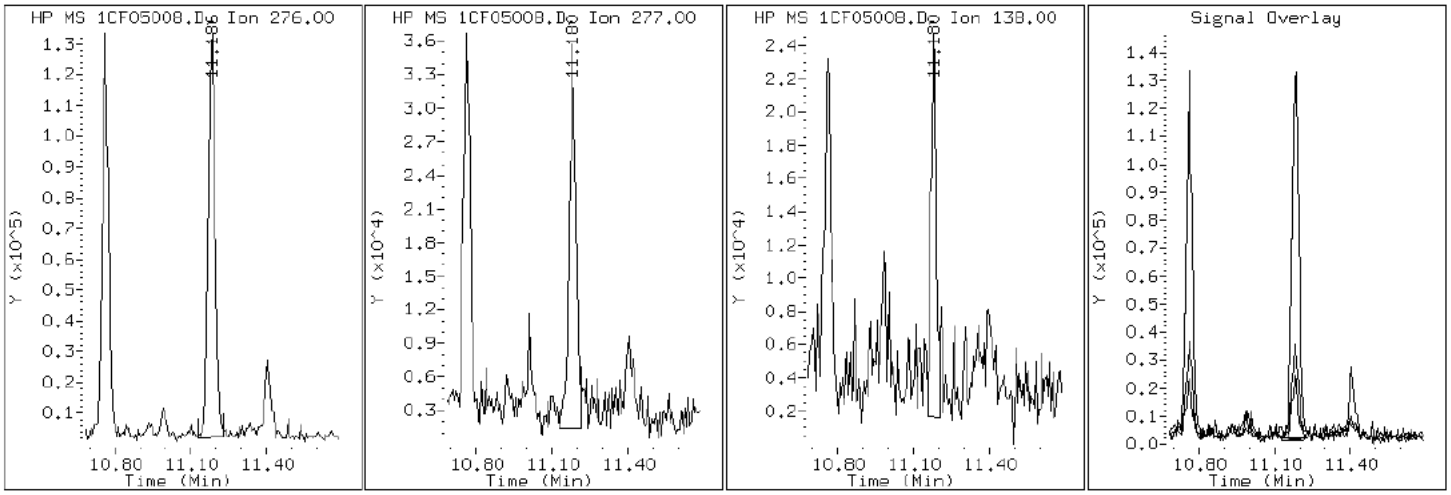
Data File: 1CF05008.D

Date: 05-JUN-2013 12:57

Client ID: CV0315A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a Operator: SCC

26 Benzo(g,h,i)perylene



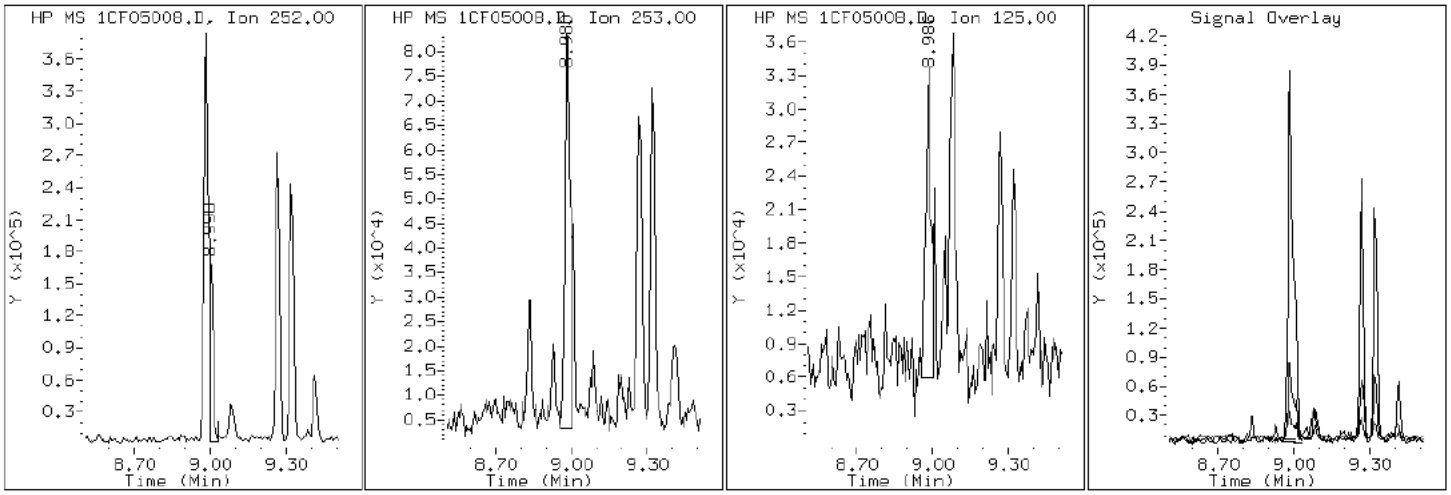
Data File: 1CF05008.D

Date: 05-JUN-2013 12:57

Client ID: CV0315A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CF05008.D

Date: 05-JUN-2013 12:57

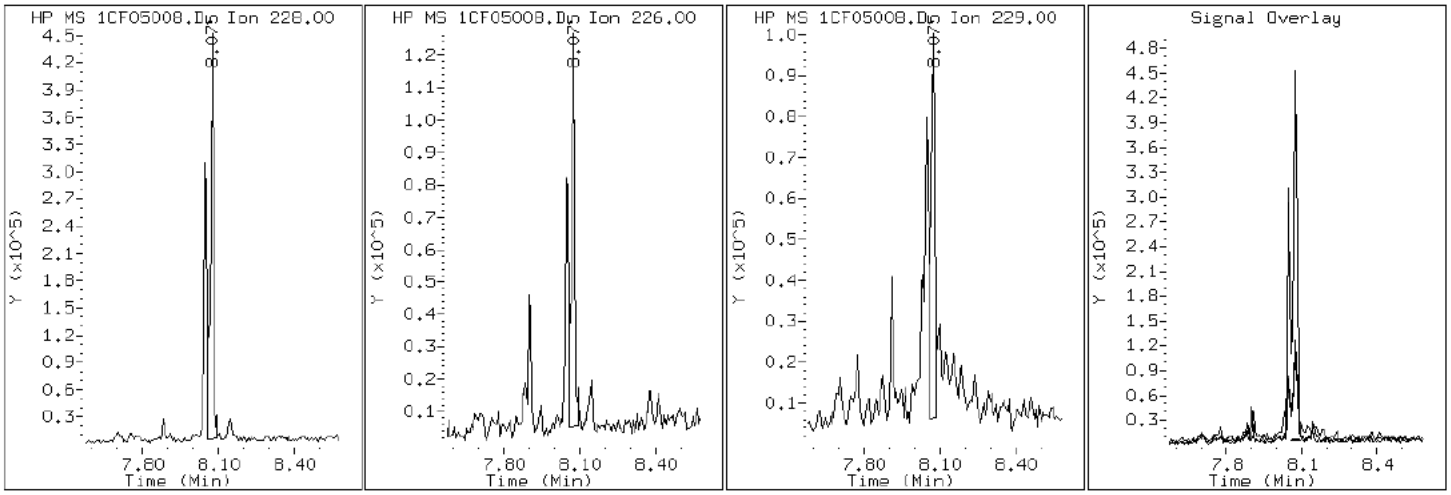
Client ID: CV0315A-CS

Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a

Operator: SCC

19 Chrysene



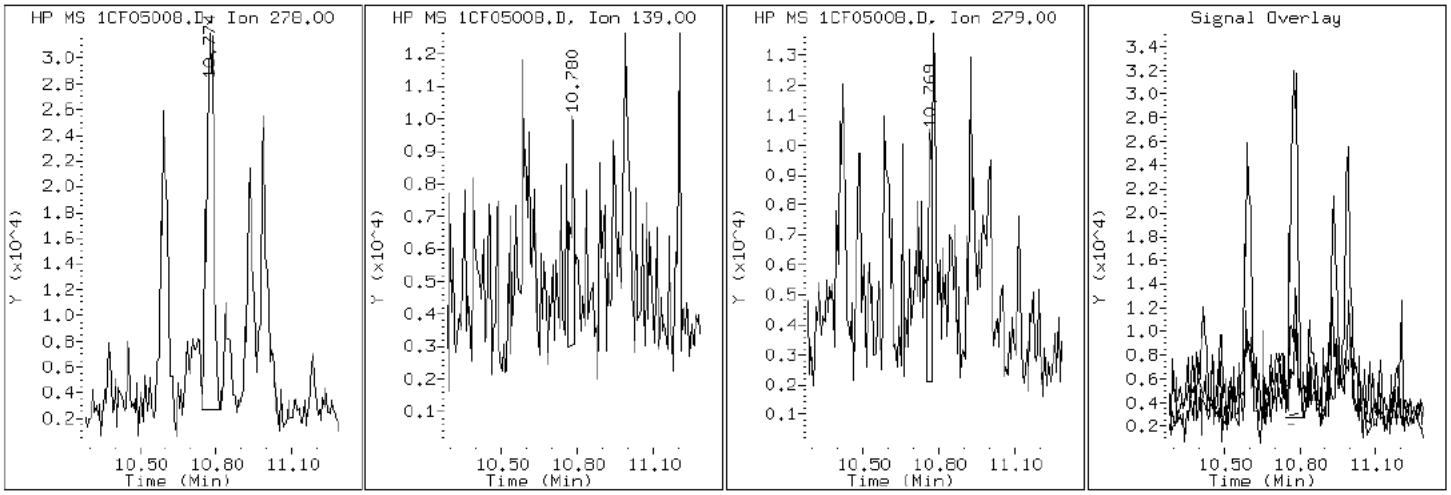
Data File: 1CF05008.D

Date: 05-JUN-2013 12:57

Client ID: CV0315A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a Operator: SCC

25 Dibenzo(a,h)anthracene



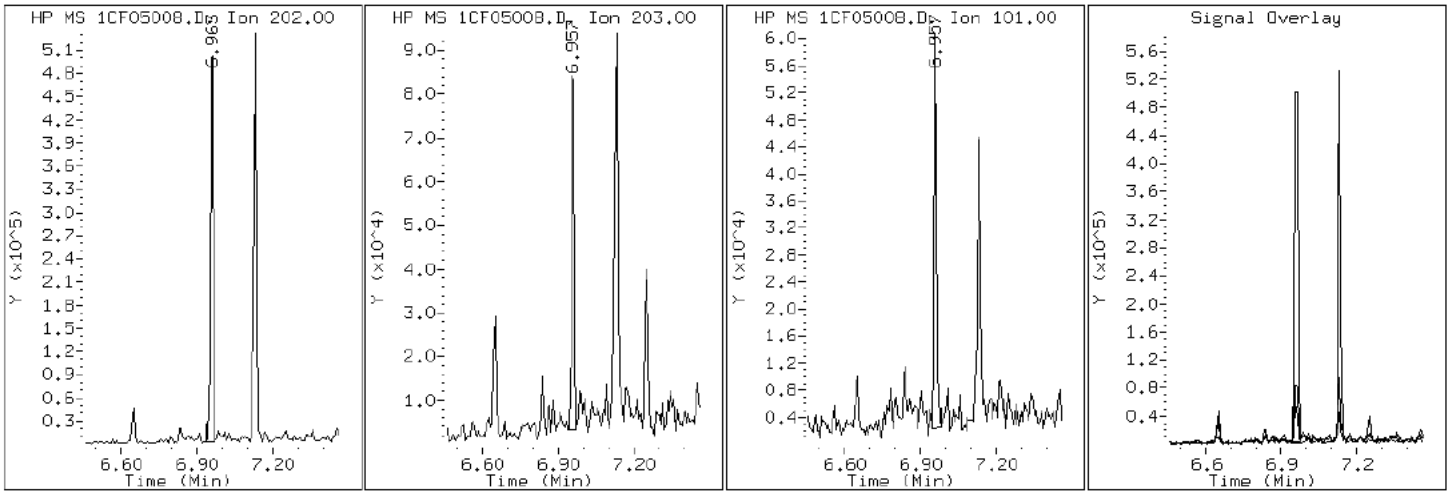
Data File: 1CF05008.D

Date: 05-JUN-2013 12:57

Client ID: CV0315A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a Operator: SCC

15 Fluoranthene



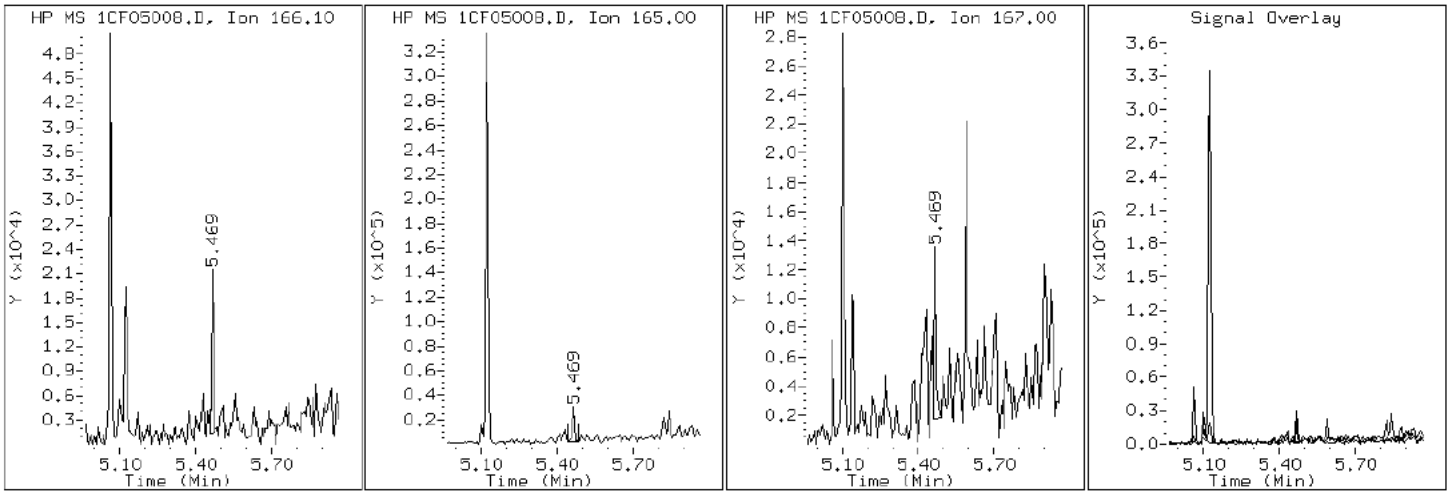
Data File: 1CF05008.D

Date: 05-JUN-2013 12:57

Client ID: CV0315A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a Operator: SCC

9 Fluorene



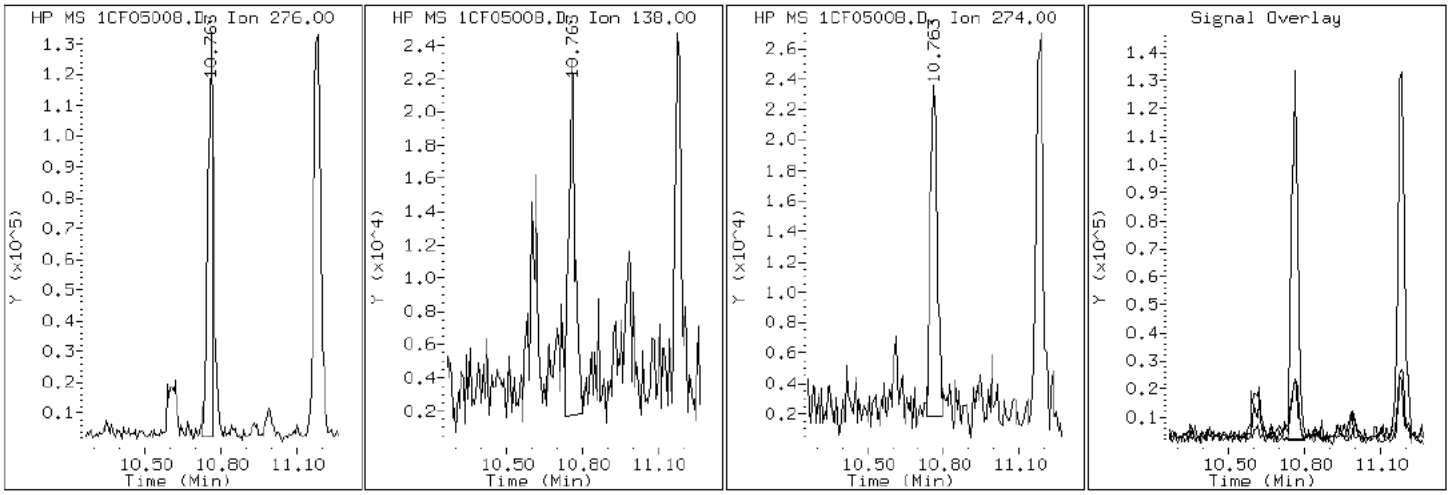
Data File: 1CF05008.D

Date: 05-JUN-2013 12:57

Client ID: CV0315A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a Operator: SCC

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



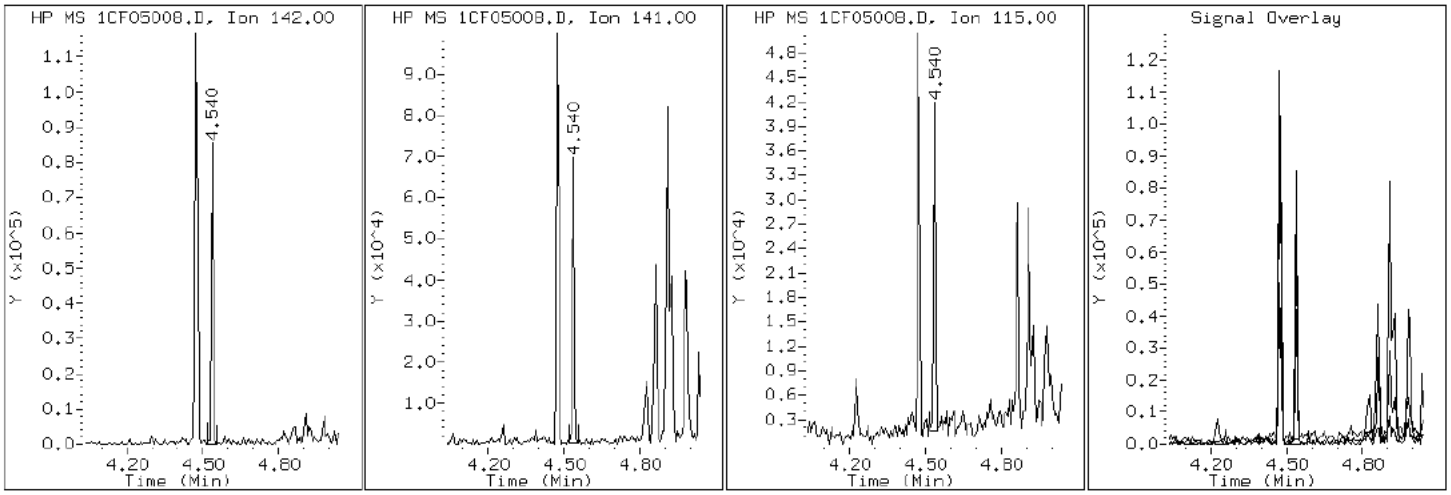
Data File: 1CF05008.D

Date: 05-JUN-2013 12:57

Client ID: CV0315A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a Operator: SCC

4 1-Methylnaphthalene



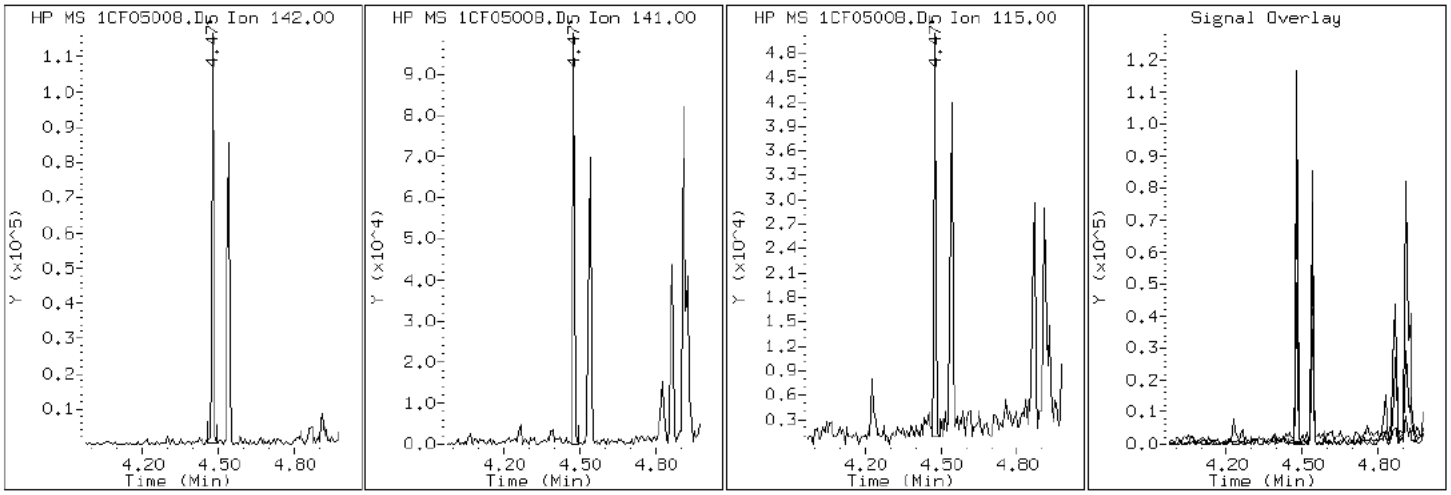
Data File: 1CF05008.D

Date: 05-JUN-2013 12:57

Client ID: CV0315A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a Operator: SCC

3 2-Methylnaphthalene



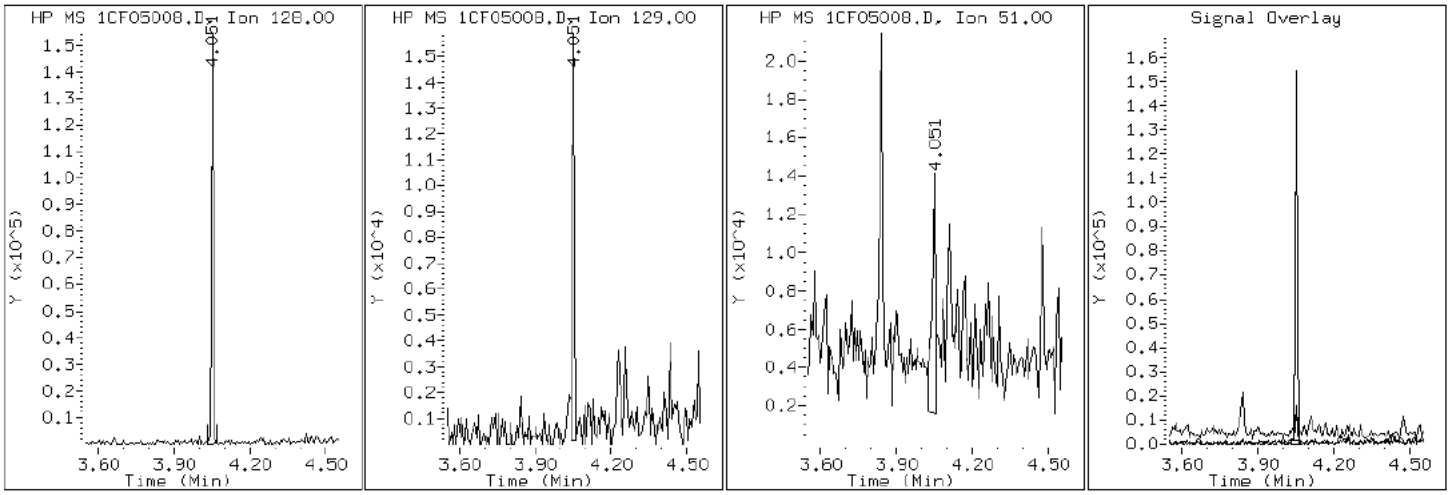
Data File: 1CF05008.D

Date: 05-JUN-2013 12:57

Client ID: CV0315A-CS | Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a | Operator: SCC

2 Naphthalene



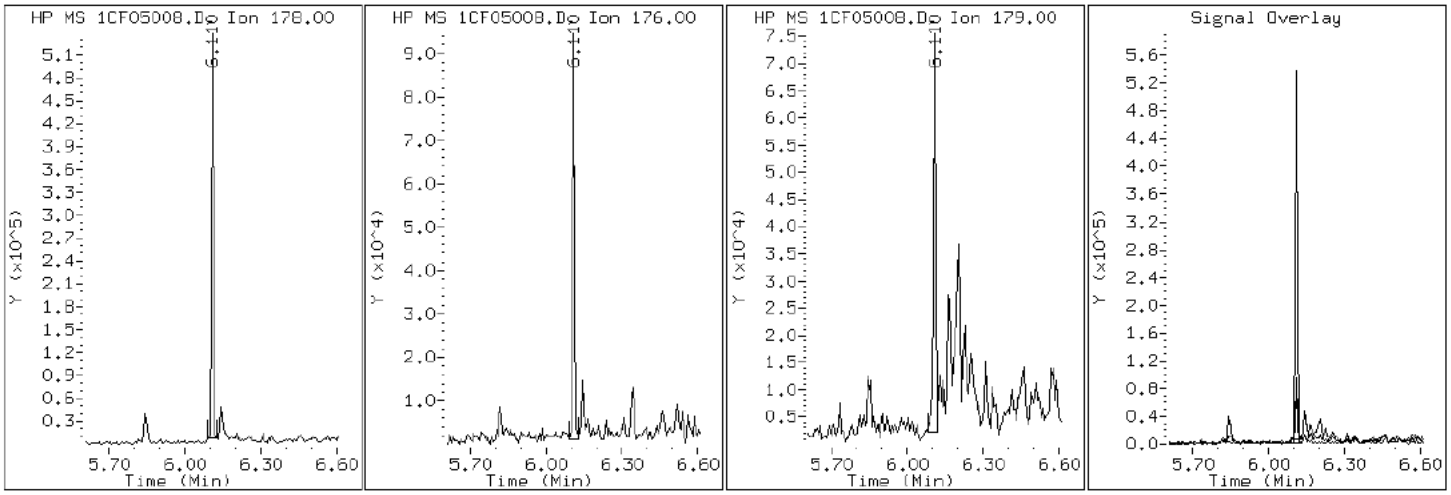
Data File: 1CF05008.D

Date: 05-JUN-2013 12:57

Client ID: CV0315A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a Operator: SCC

11 Phenanthrene



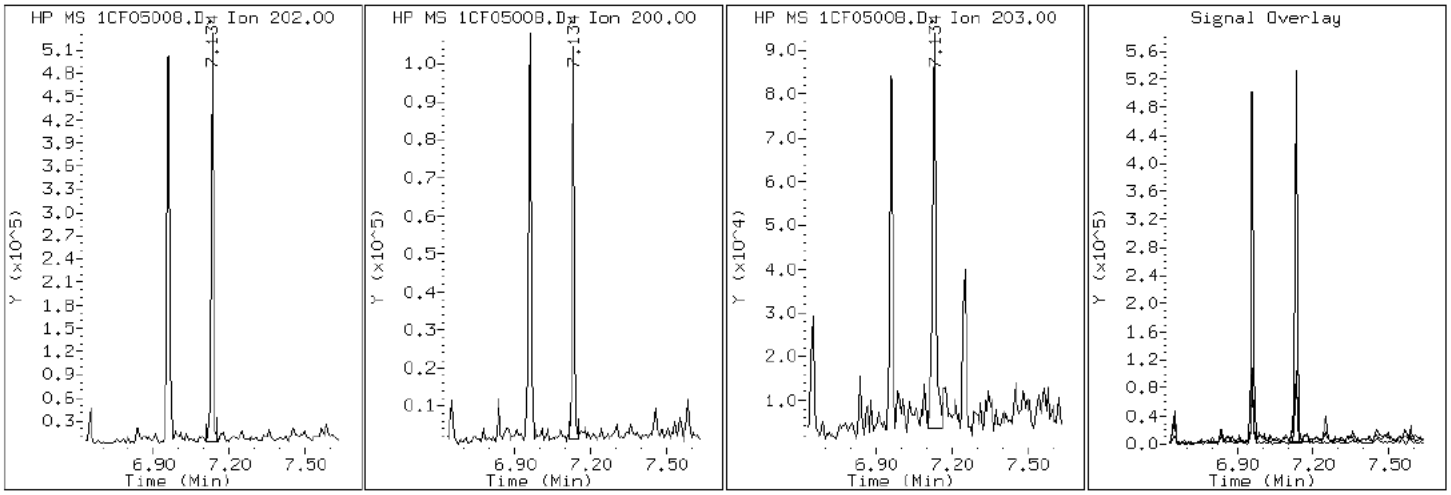
Data File: 1CF05008.D

Date: 05-JUN-2013 12:57

Client ID: CV0315A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-27-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF05008.D
Inj. Date and Time: 05-JUN-2013 12:57
Instrument ID: BSMC5973.i
Client ID: CV0315A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

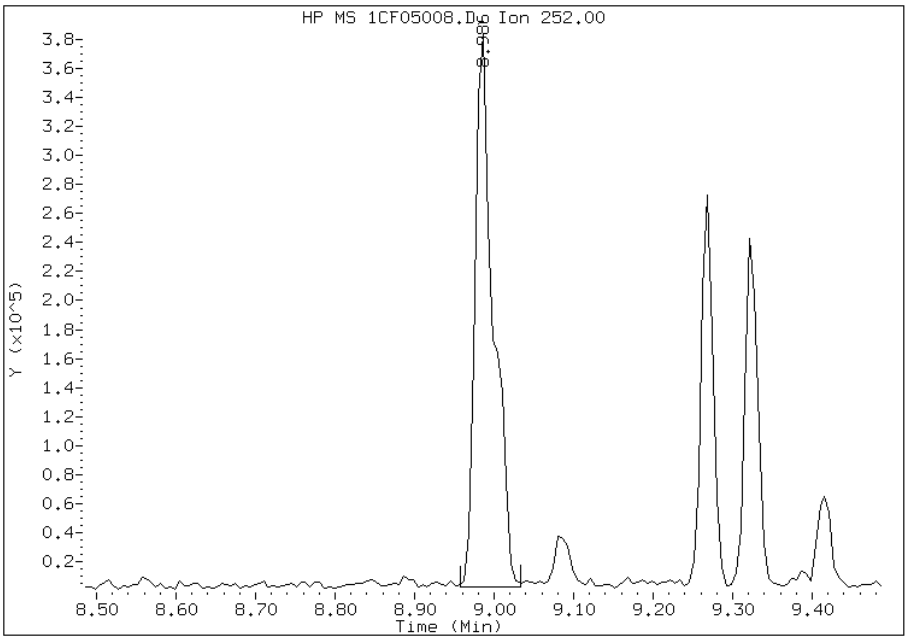
Processing Integration Results

RT: 8.99

Response: 611473

Amount: 7

Conc: 606



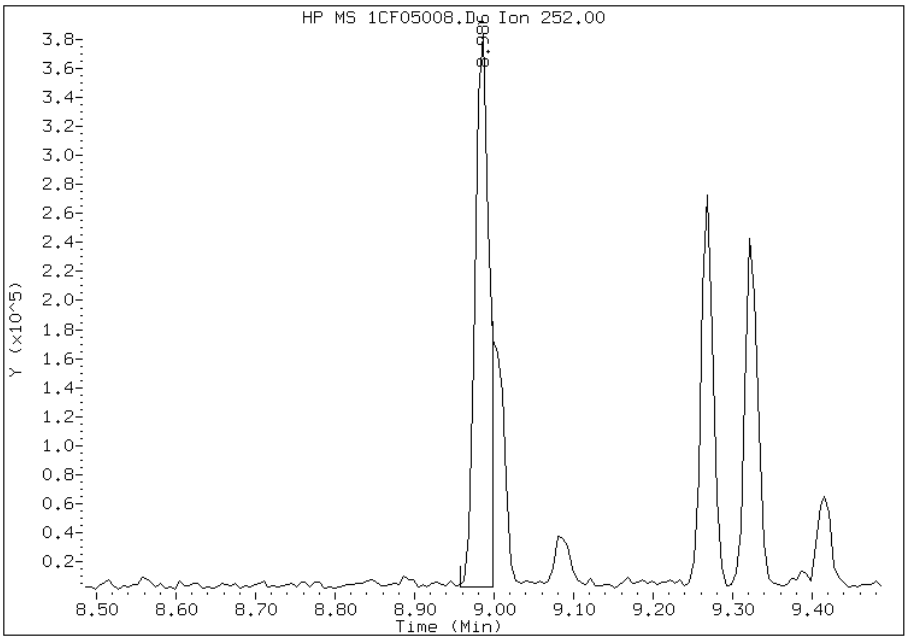
Manual Integration Results

RT: 8.99

Response: 473491

Amount: 6

Conc: 469



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:56
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF05008.D
Inj. Date and Time: 05-JUN-2013 12:57
Instrument ID: BSMC5973.i
Client ID: CV0315A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

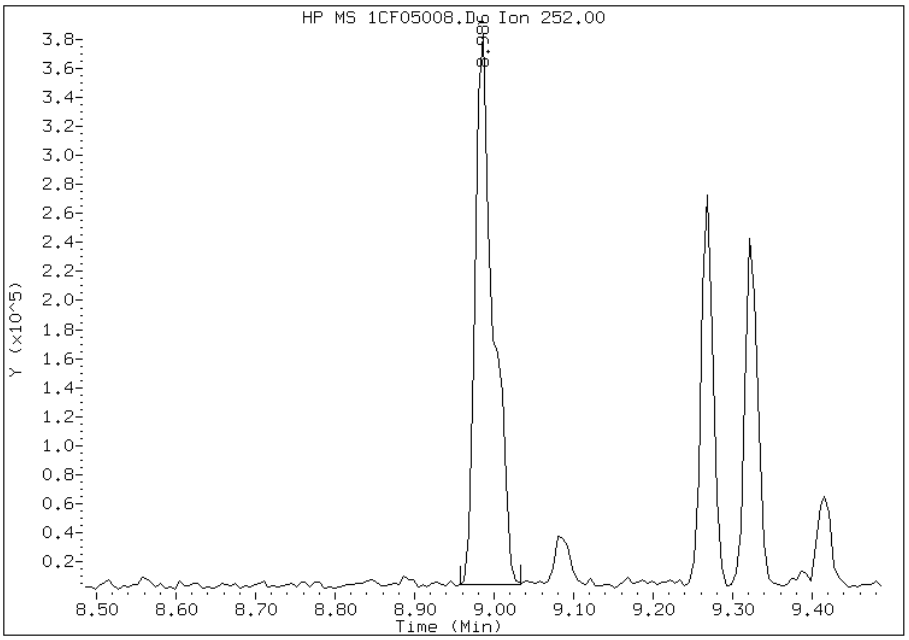
Processing Integration Results

RT: 8.99

Response: 604837

Amount: 6

Conc: 536



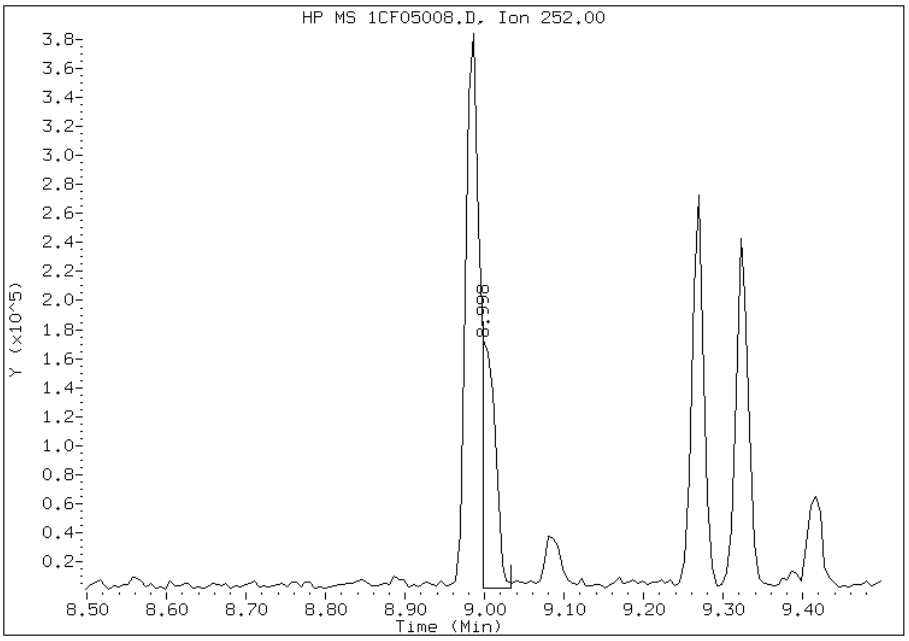
Manual Integration Results

RT: 9.00

Response: 199461

Amount: 2

Conc: 177



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF05008.D
Inj. Date and Time: 05-JUN-2013 12:57
Instrument ID: BSMC5973.i
Client ID: CV0315A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

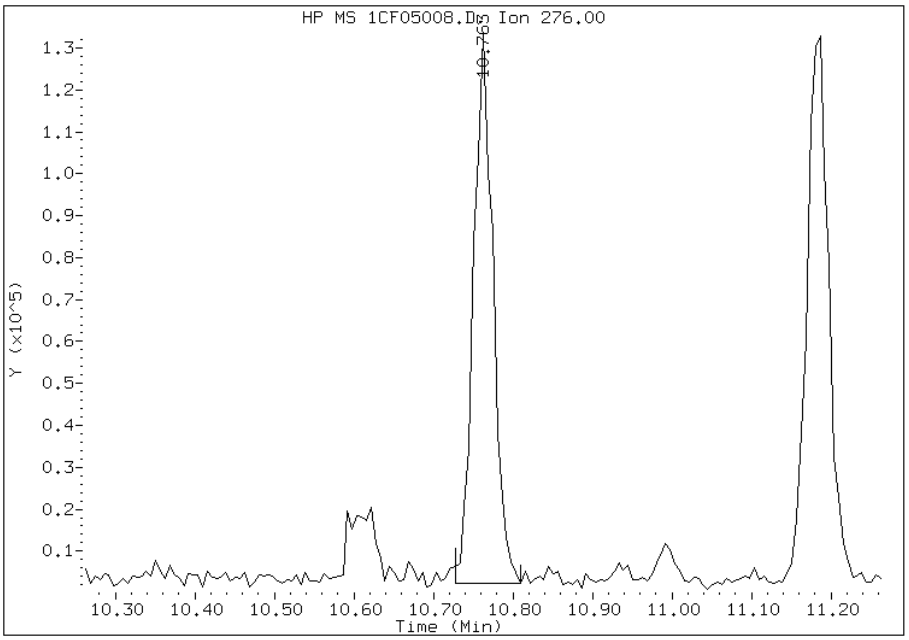
Processing Integration Results

RT: 10.76

Response: 223062

Amount: 3

Conc: 216



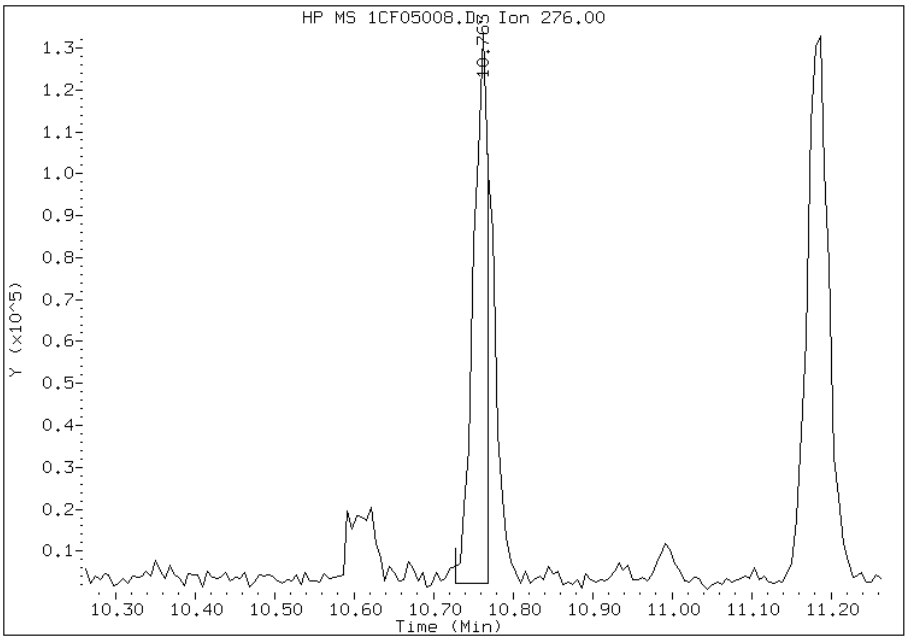
Manual Integration Results

RT: 10.76

Response: 166766

Amount: 2

Conc: 165



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV0315B-CS | Lab Sample ID: 680-90723-28

Matrix: Solid | Lab File ID: 1CF05009.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 14:55

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 14.92(g) | Date Analyzed: 06/05/2013 13:16

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

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

% Moisture: 17.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	11	J	49	6.1
120-12-7	Anthracene	20		10	5.1
56-55-3	Benzo[a]anthracene	140		9.7	4.7
50-32-8	Benzo[a]pyrene	170		13	6.3
205-99-2	Benzo[b]fluoranthene	330		15	7.4
191-24-2	Benzo[g,h,i]perylene	180		24	5.3
207-08-9	Benzo[k]fluoranthene	79		9.7	4.4
218-01-9	Chrysene	240		11	5.5
53-70-3	Dibenz(a,h)anthracene	47		24	5.0
206-44-0	Fluoranthene	190		24	4.9
86-73-7	Fluorene	11	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	140		24	8.6
90-12-0	1-Methylnaphthalene	88		49	5.3
91-57-6	2-Methylnaphthalene	150		49	8.6
91-20-3	Naphthalene	93		49	5.3
85-01-8	Phenanthrene	170		9.7	4.7
129-00-0	Pyrene	190		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	47		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05009.D
Lab Smp Id: 680-90723-A-28-A Client Smp ID: CV0315B-CS
Inj Date : 05-JUN-2013 13:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-28-a
Misc Info : 680-90723-A-28-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 9
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	14.920	Weight Extracted
M	17.100	% 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	4.039	4.039	(1.000)	2311143	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1610630	40.0000	
* 10 Phenanthrene-d10	188	6.092	6.092	(1.000)	3036520	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.042)	222338	4.70047	380.0279
* 18 Chrysene-d12	240	8.056	8.056	(1.000)	3346540	40.0000	
* 23 Perylene-d12	264	9.392	9.392	(1.000)	3374120	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	74983	1.14969	92.9512
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	65485	1.81019	146.3523
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	38694	1.08715	87.8950
5 Acenaphthylene	152	5.039	5.039	(0.983)	8417	0.13632	11.0213
9 Fluorene	166	5.468	5.468	(1.067)	6900	0.13966	11.2915(Q)
11 Phenanthrene	178	6.109	6.110	(1.003)	193301	2.15469	174.2046
12 Anthracene	178	6.145	6.145	(1.009)	20776	0.24998	20.2102
13 Carbazole	167	6.251	6.251	(1.026)	20973	0.38502	31.1284

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.962	6.962	(1.143)	219669	2.39558	193.6803
16 Pyrene	202	7.133	7.133	(0.885)	208659	2.30902	186.6816
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	158298	1.71543	138.6903
19 Chrysene	228	8.074	8.074	(1.002)	273633	2.94519	238.1155
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	334860	4.03930	326.5734(M)
21 Benzo(k)fluoranthene	252	9.003	9.009	(0.959)	90750	0.98012	79.2414(QM)
22 Benzo(a)pyrene	252	9.321	9.327	(0.992)	169546	2.10057	169.8289
24 Indeno(1,2,3-cd)pyrene	276	10.762	10.768	(1.146)	140167	1.71166	138.3857(M)
25 Dibenzo(a,h)anthracene	278	10.780	10.786	(1.148)	41790	0.58028	46.9147
26 Benzo(g,h,i)perylene	276	11.186	11.186	(1.191)	176444	2.25096	181.9878

QC Flag Legend

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

Data File: 1CF05009.D

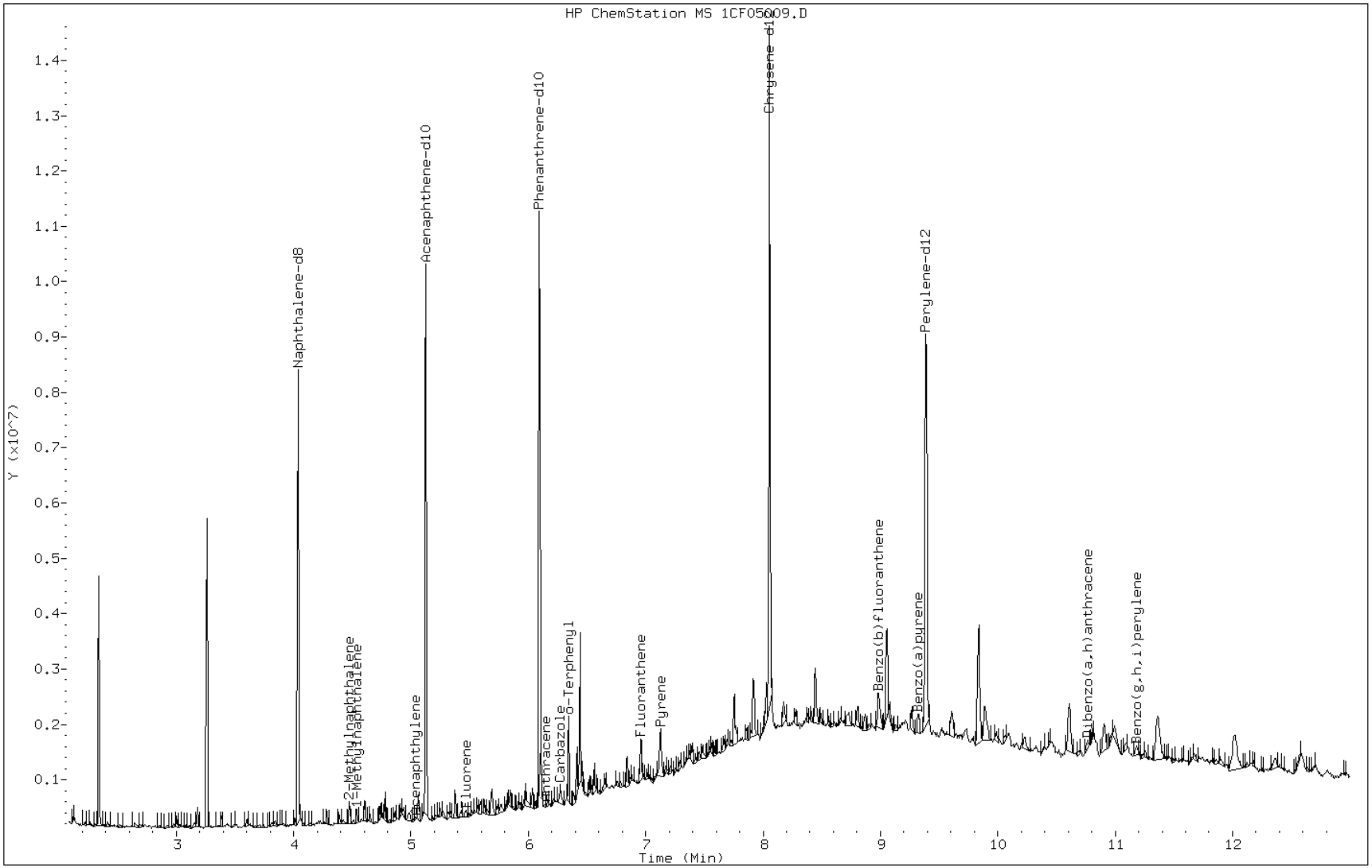
Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS

Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a

Operator: SCC



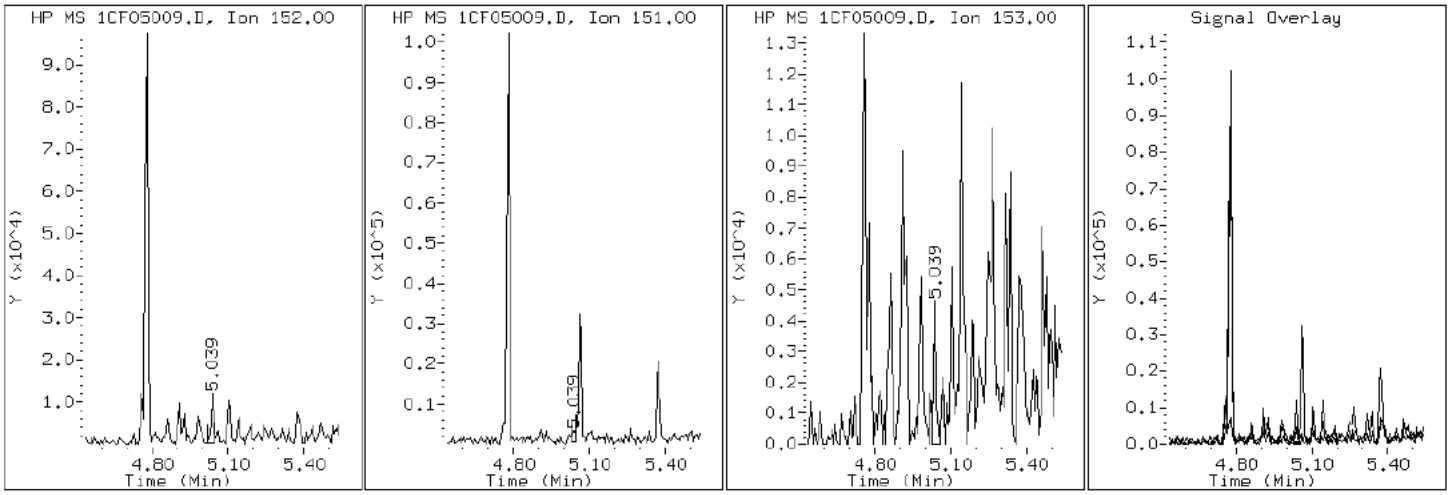
Data File: 1CF05009.D

Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a Operator: SCC

5 Acenaphthylene



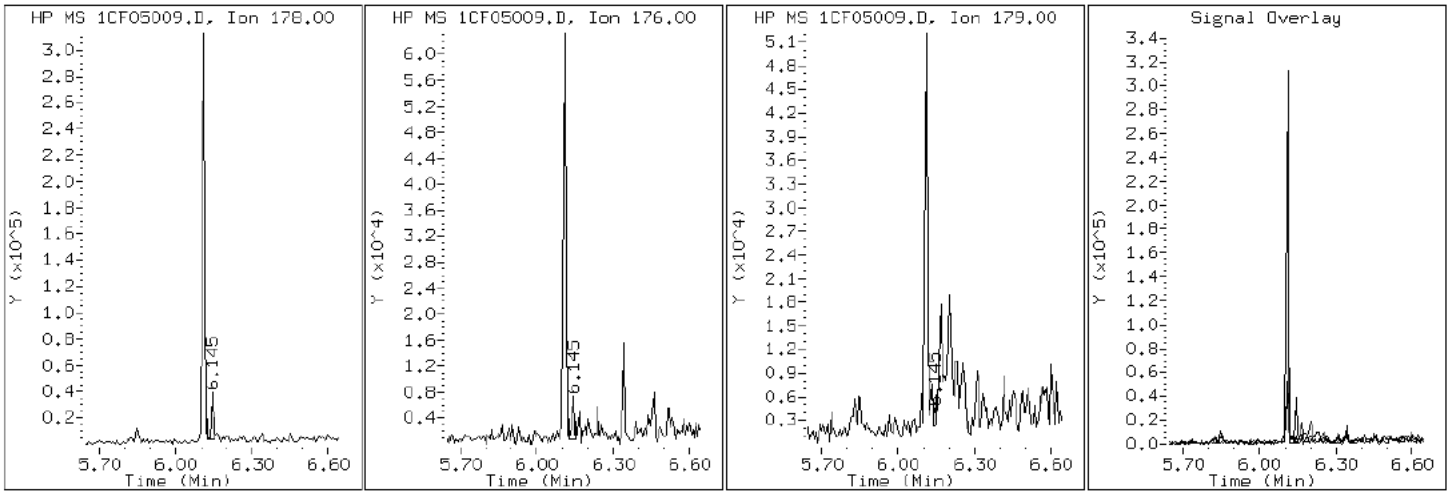
Data File: 1CF05009.D

Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a Operator: SCC

12 Anthracene



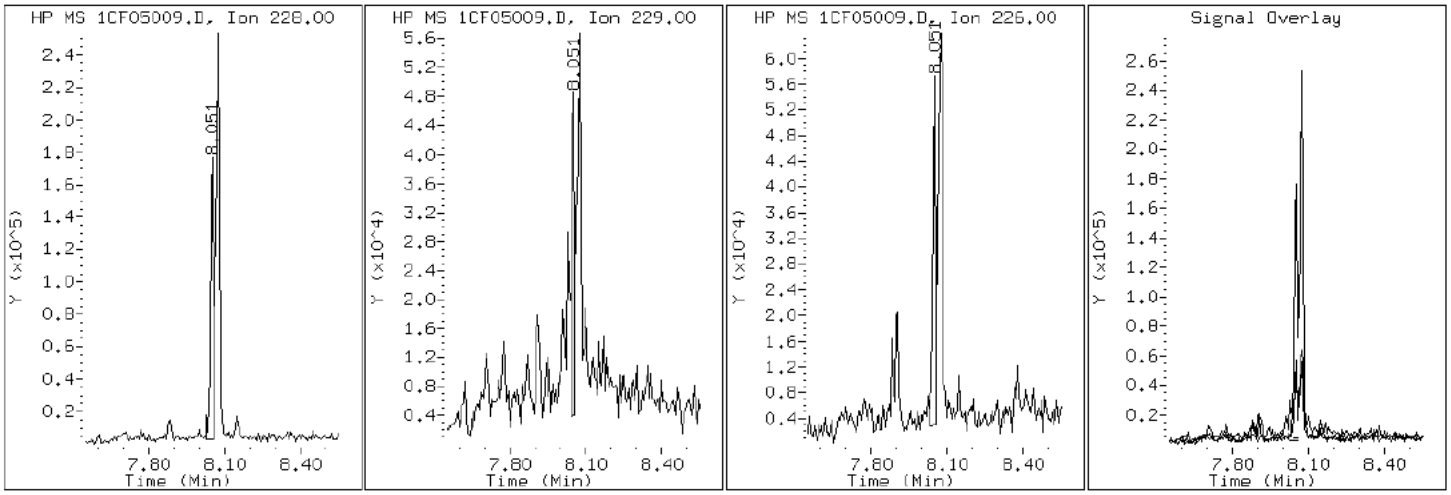
Data File: 1CF05009.D

Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a Operator: SCC

17 Benzo(a)anthracene



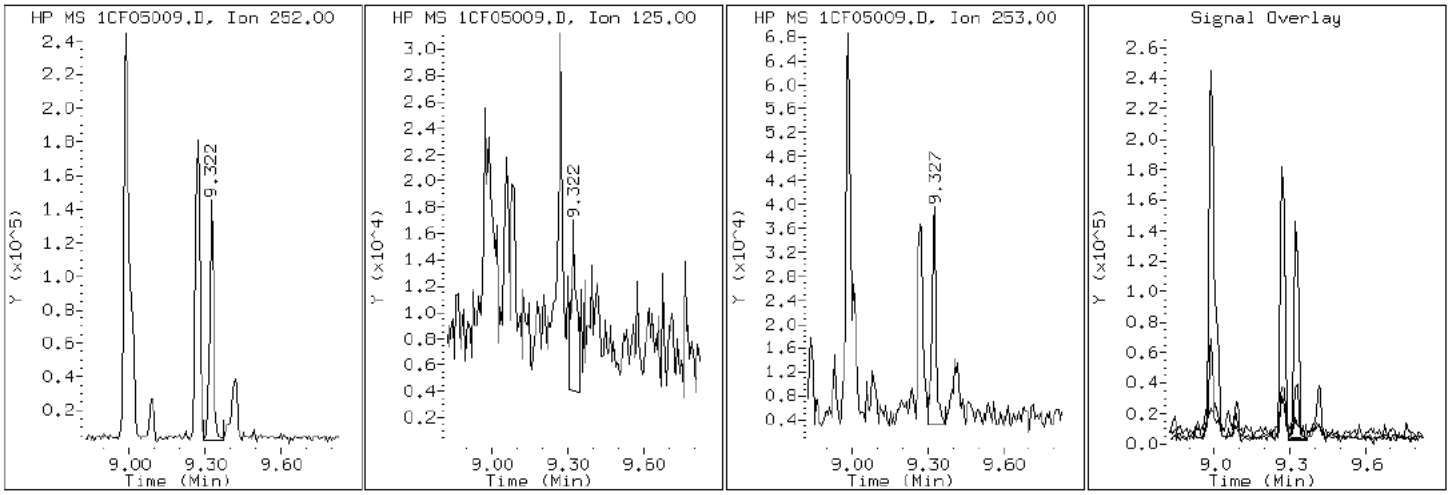
Data File: 1CF05009.D

Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a Operator: SCC

22 Benzo(a)pyrene



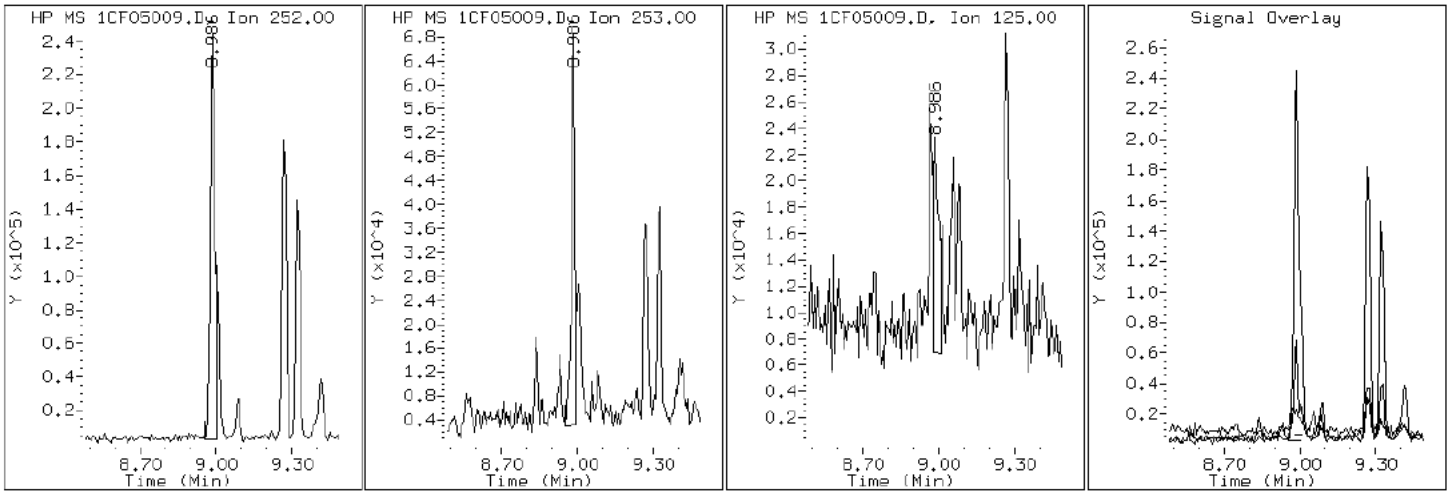
Data File: 1CF05009.D

Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a Operator: SCC

20 Benzo(b)fluoranthene



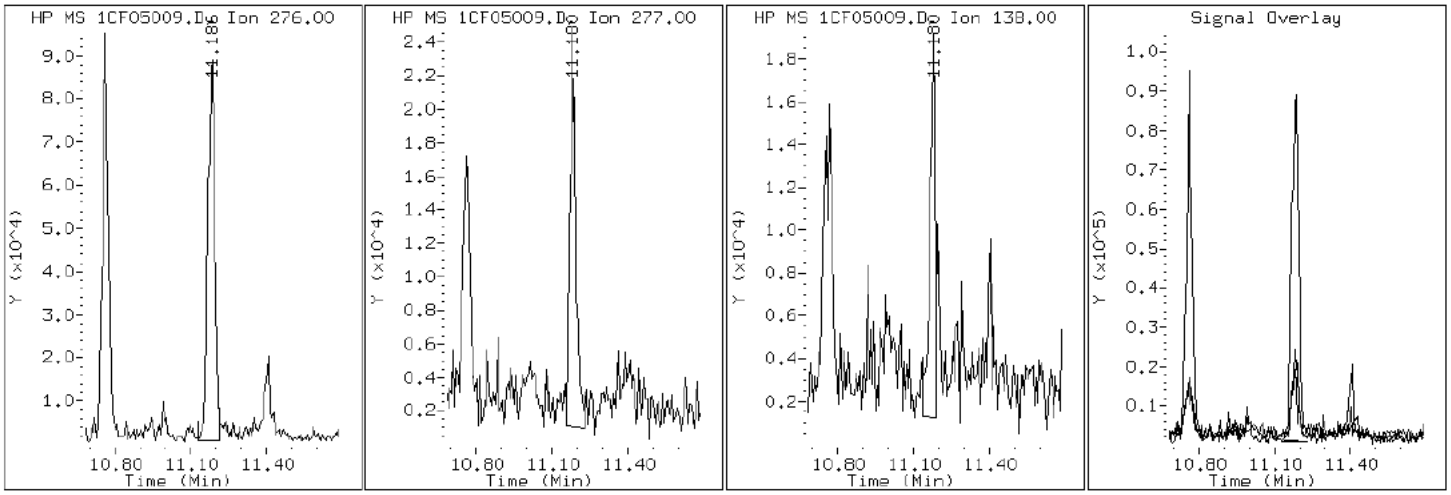
Data File: 1CF05009.D

Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a Operator: SCC

26 Benzo(g,h,i)perylene



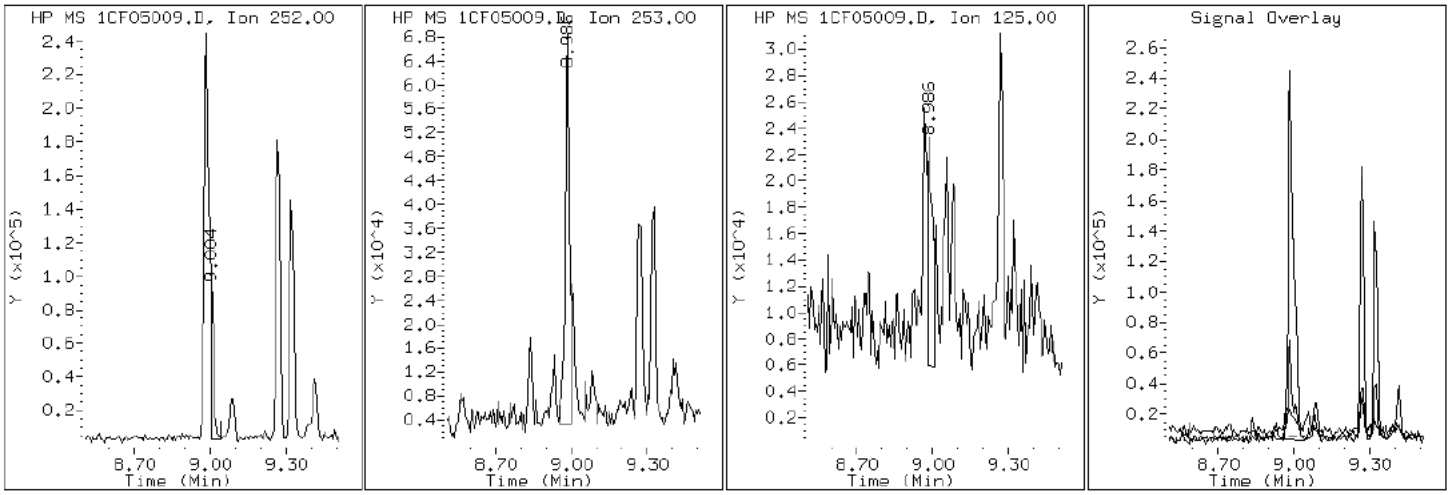
Data File: 1CF05009.D

Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a Operator: SCC

21 Benzo(k)fluoranthene



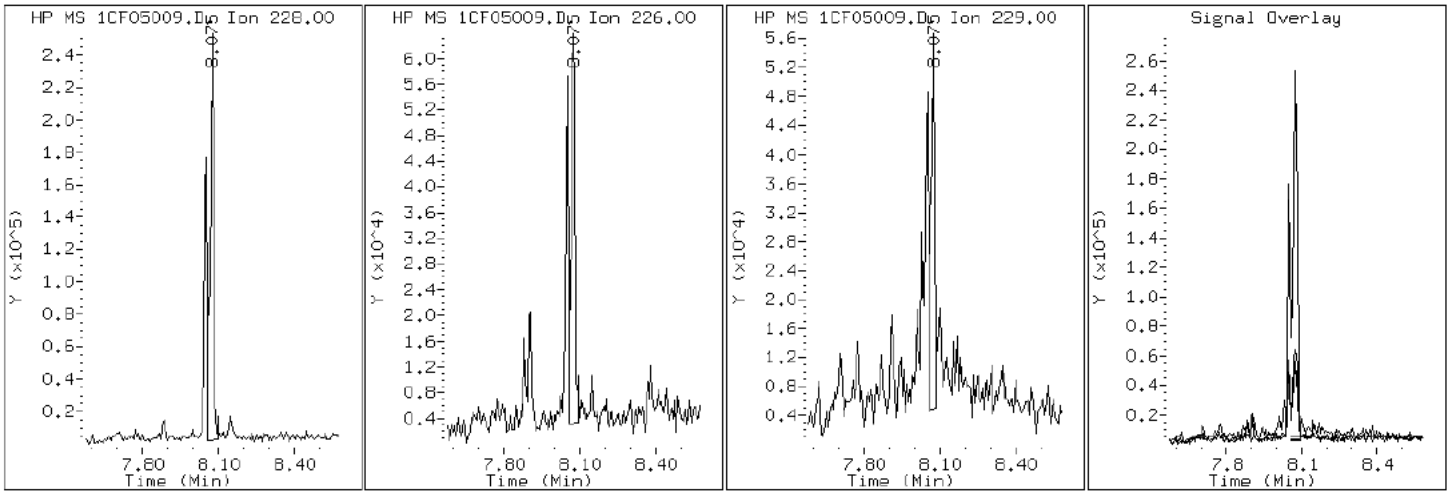
Data File: 1CF05009.D

Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a Operator: SCC

19 Chrysene



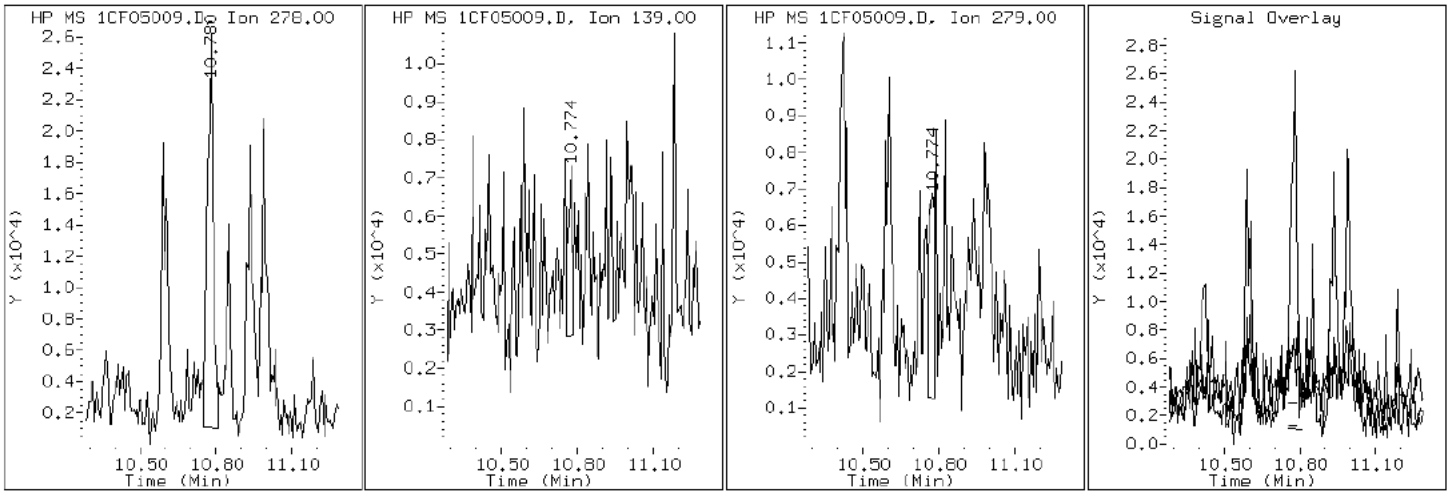
Data File: 1CF05009.D

Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a Operator: SCC

25 Dibenzo(a,h)anthracene



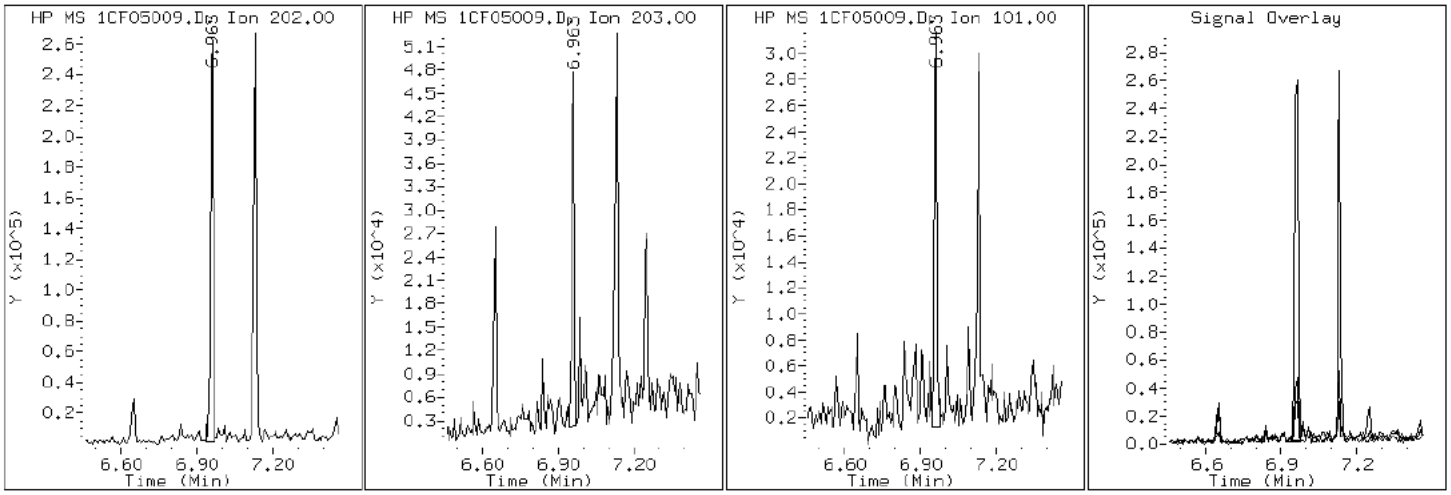
Data File: 1CF05009.D

Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a Operator: SCC

15 Fluoranthene



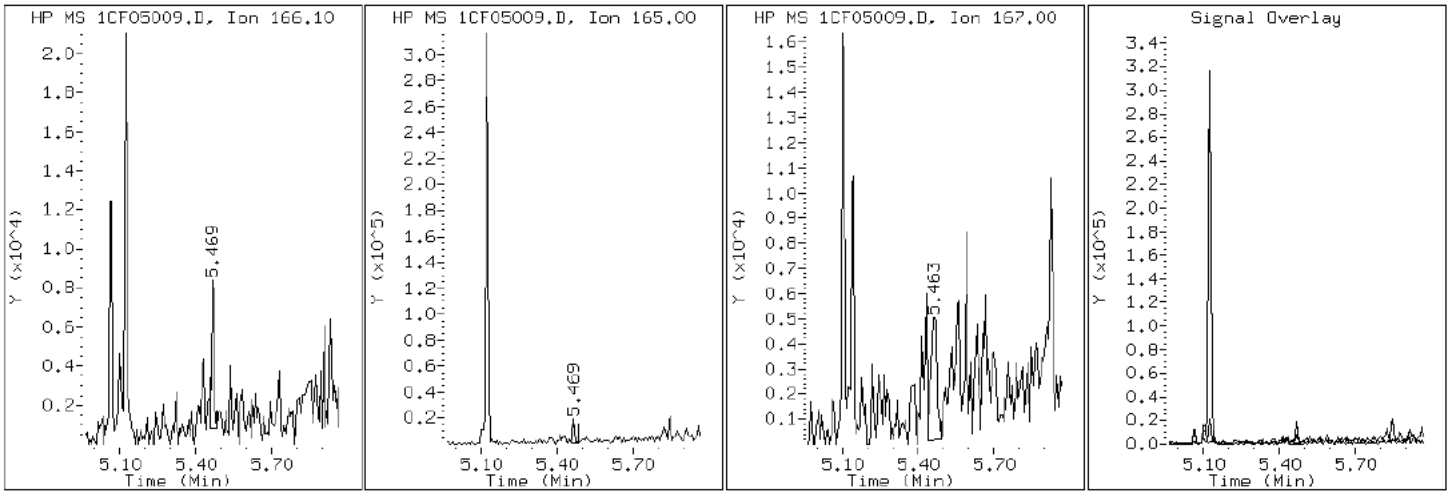
Data File: 1CF05009.D

Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a Operator: SCC

9 Fluorene



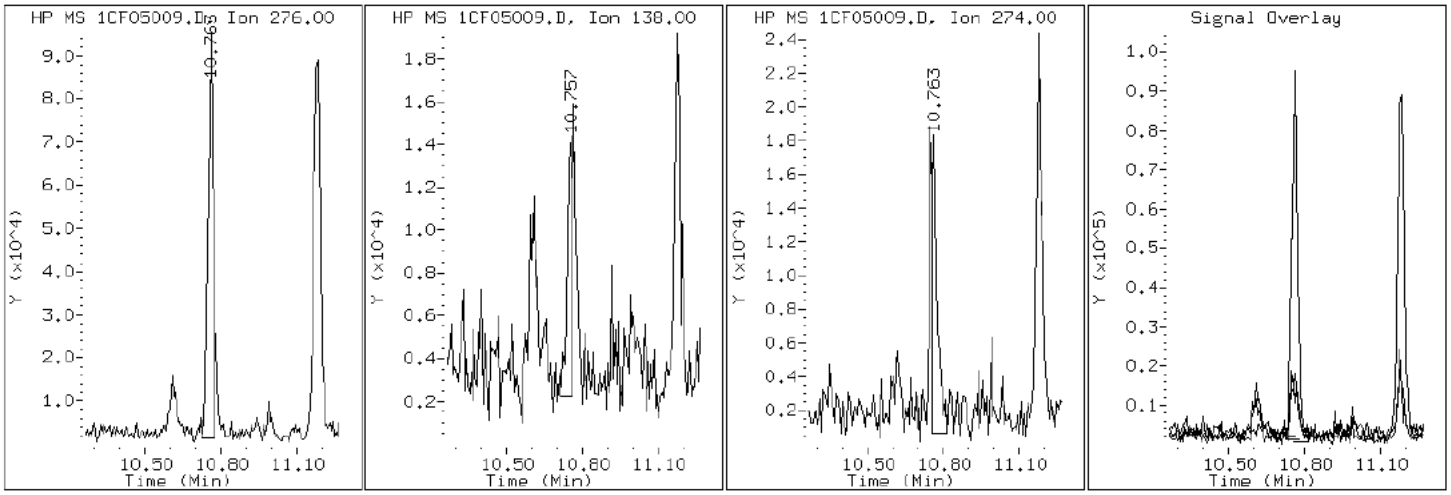
Data File: 1CF05009.D

Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a Operator: SCC

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



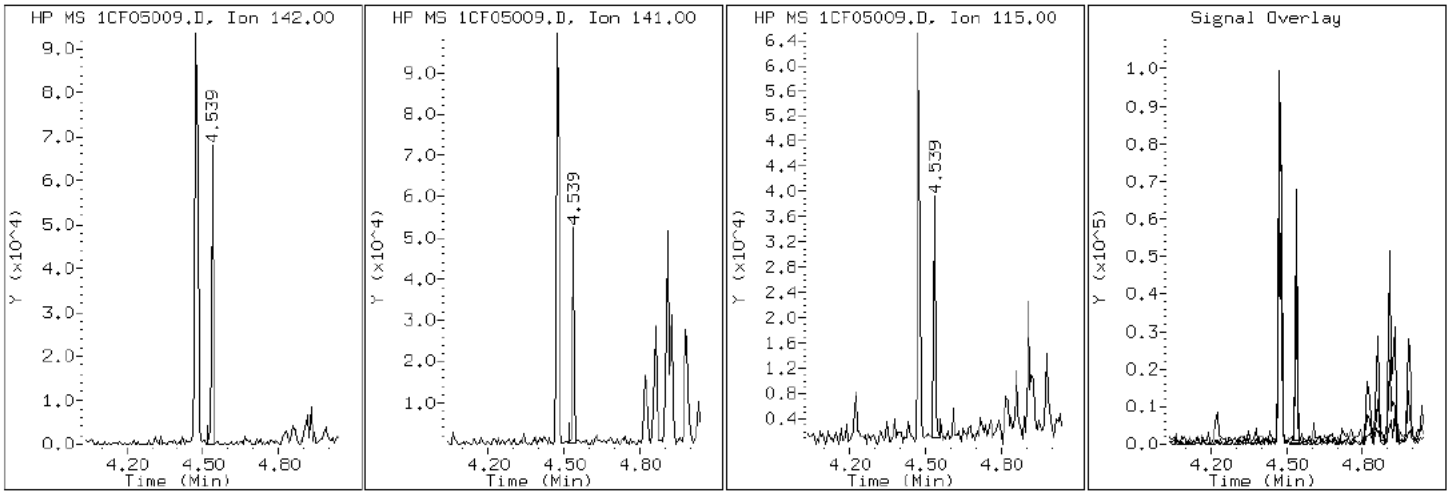
Data File: 1CF05009.D

Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a Operator: SCC

4 1-Methylnaphthalene



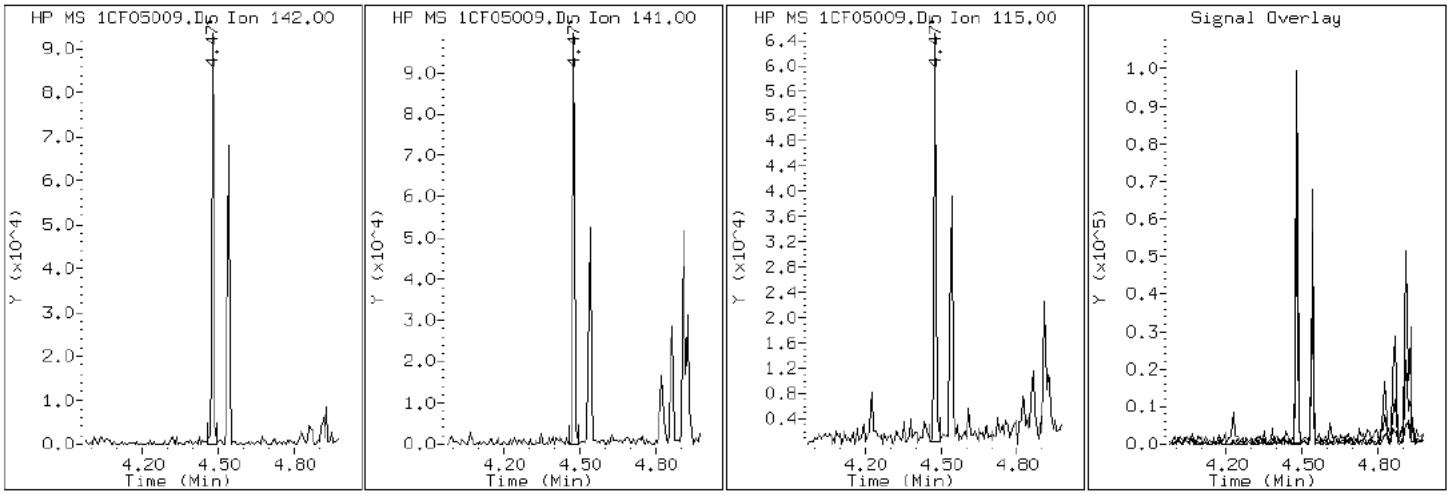
Data File: 1CF05009.D

Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a Operator: SCC

3 2-Methylnaphthalene



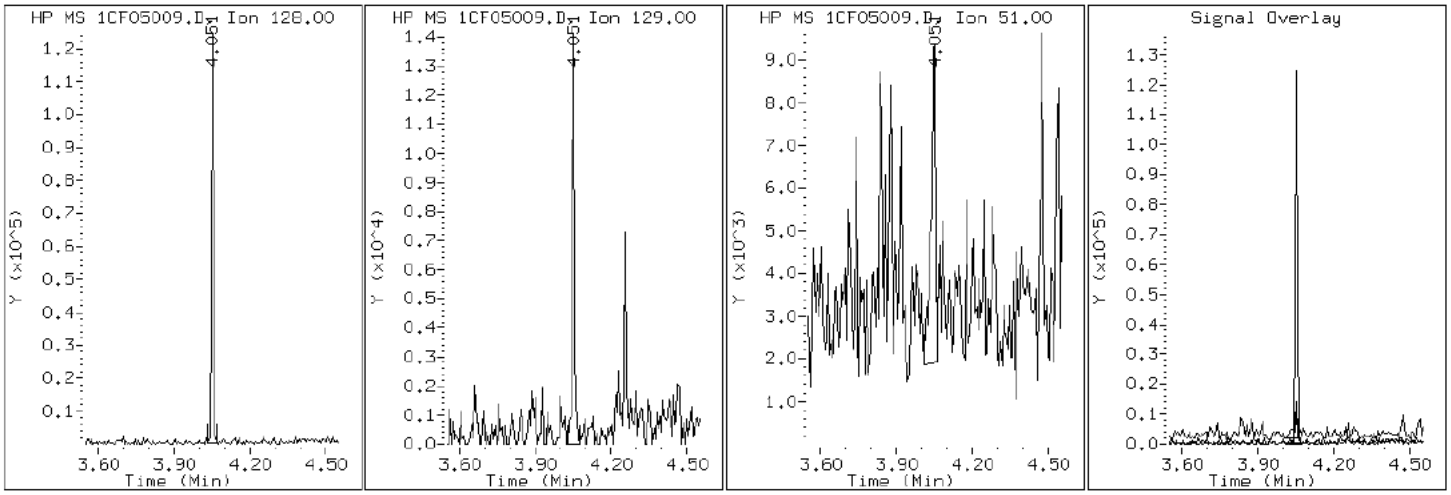
Data File: 1CF05009.D

Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a Operator: SCC

2 Naphthalene



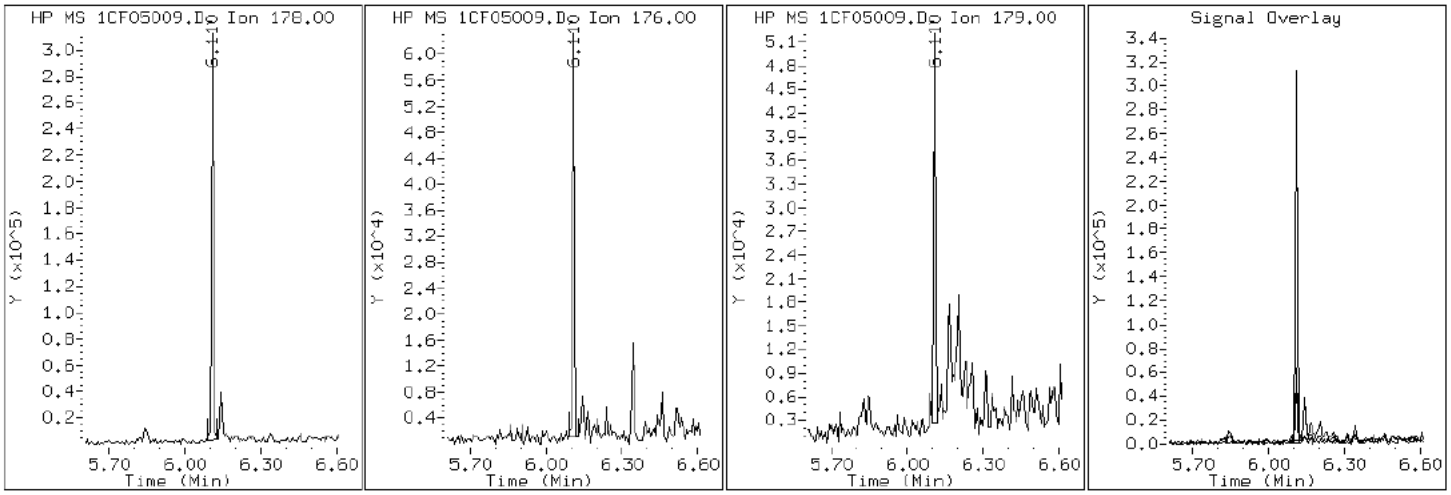
Data File: 1CF05009.D

Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a Operator: SCC

11 Phenanthrene



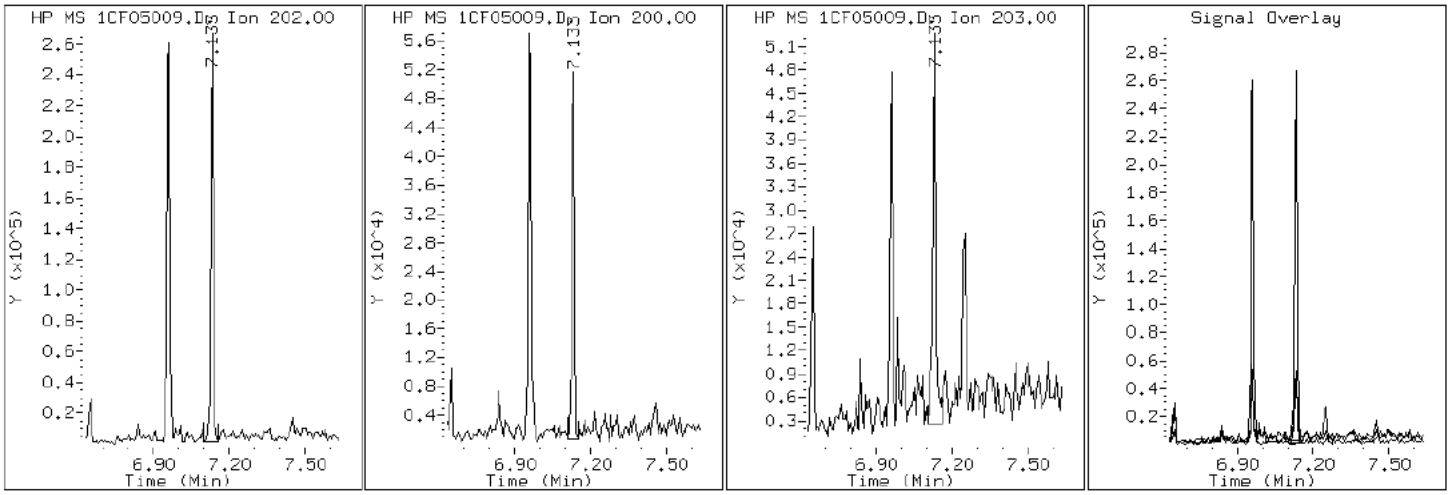
Data File: 1CF05009.D

Date: 05-JUN-2013 13:16

Client ID: CV0315B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-28-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF05009.D
Inj. Date and Time: 05-JUN-2013 13:16
Instrument ID: BSMC5973.i
Client ID: CV0315B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

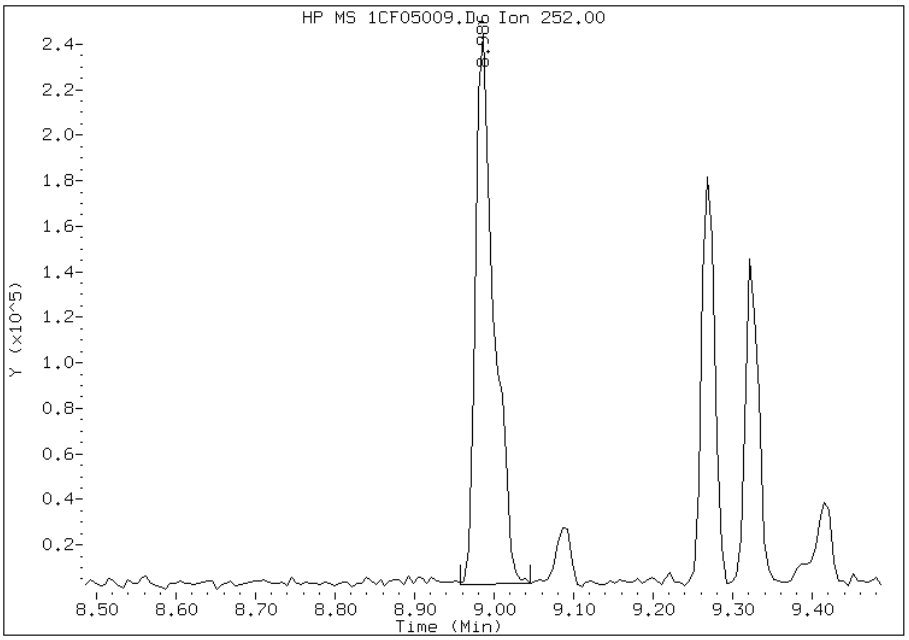
Processing Integration Results

RT: 8.99

Response: 392437

Amount: 5

Conc: 383



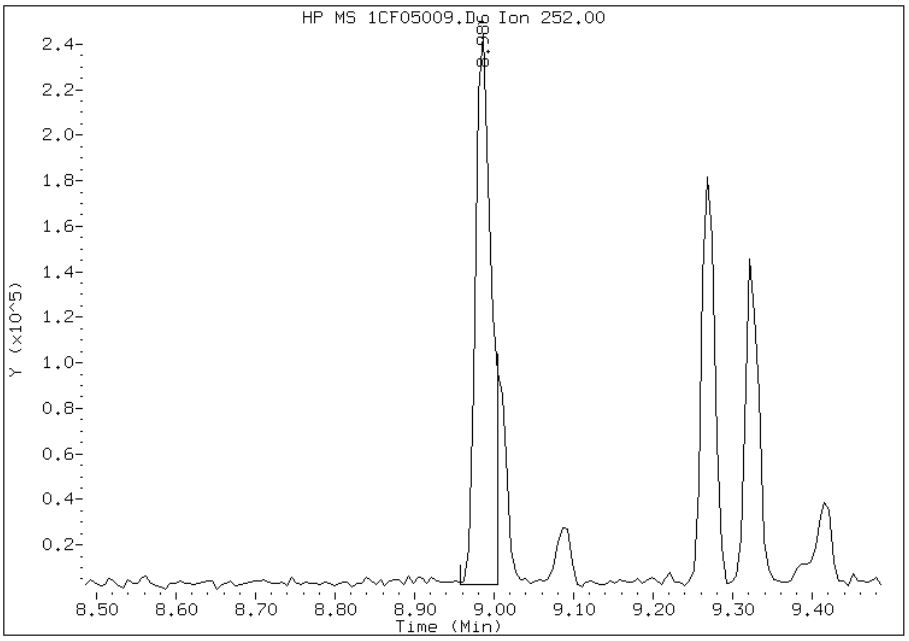
Manual Integration Results

RT: 8.99

Response: 334860

Amount: 4

Conc: 327



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:57
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF05009.D
Inj. Date and Time: 05-JUN-2013 13:16
Instrument ID: BSMC5973.i
Client ID: CV0315B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

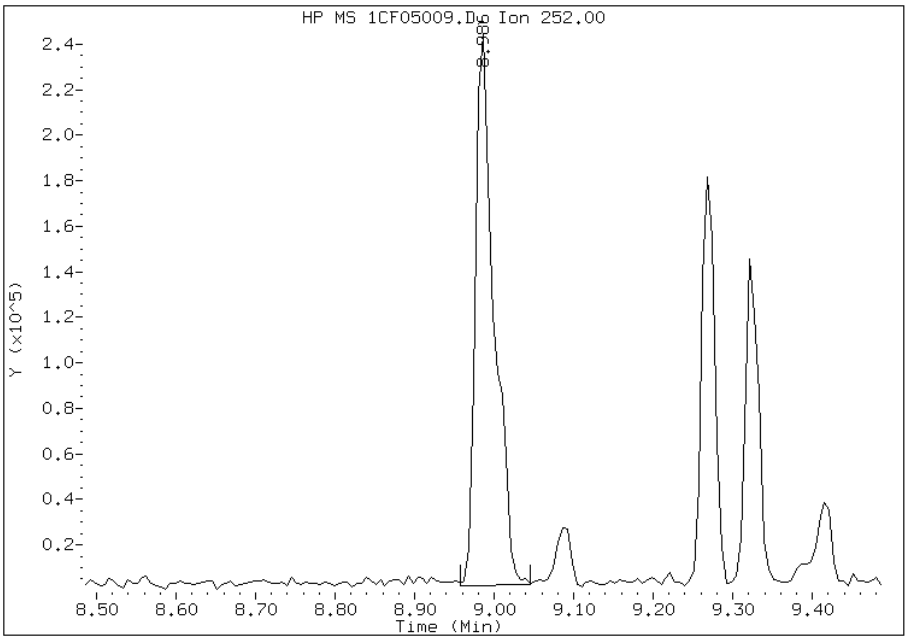
Processing Integration Results

RT: 8.99

Response: 394676

Amount: 4

Conc: 345



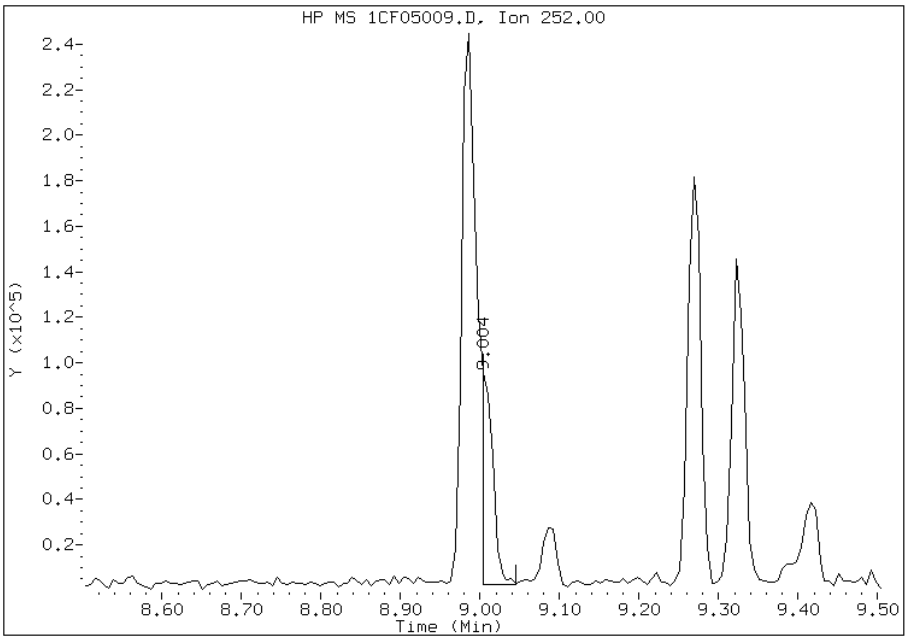
Manual Integration Results

RT: 9.00

Response: 90750

Amount: 1

Conc: 79



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF05009.D
Inj. Date and Time: 05-JUN-2013 13:16
Instrument ID: BSMC5973.i
Client ID: CV0315B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

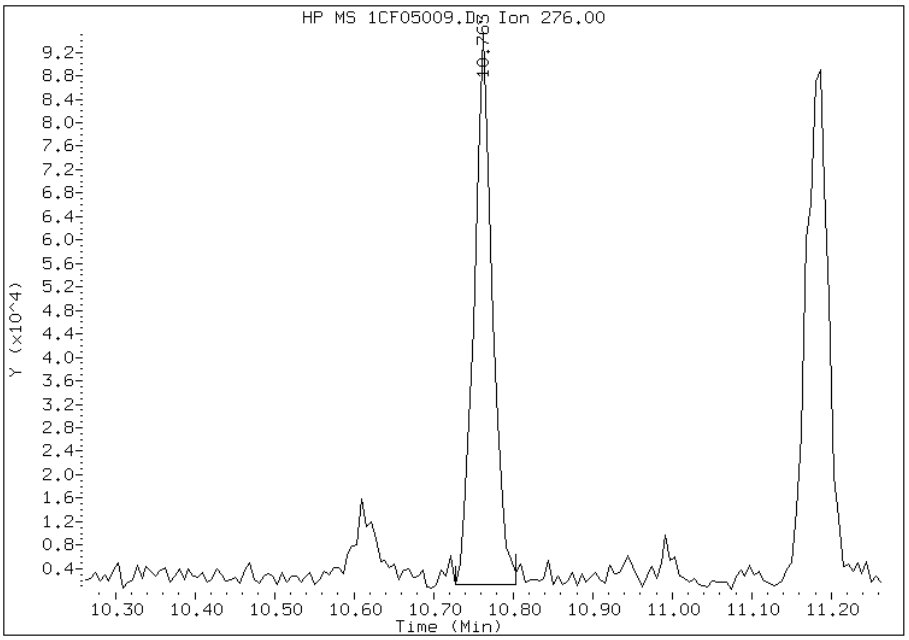
Processing Integration Results

RT: 10.76

Response: 149570

Amount: 2

Conc: 147



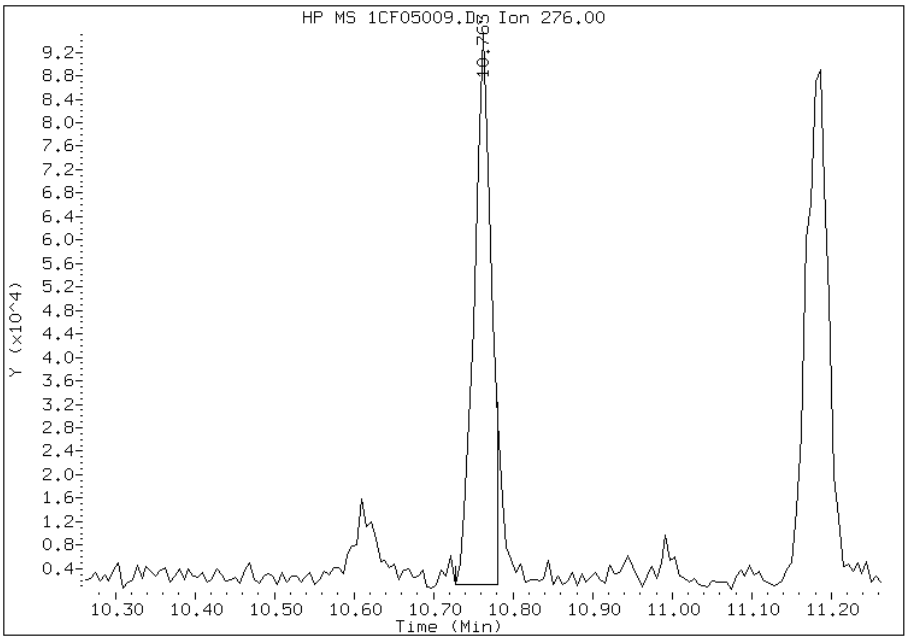
Manual Integration Results

RT: 10.76

Response: 140167

Amount: 2

Conc: 138



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV1164A-CS | Lab Sample ID: 680-90723-29

Matrix: Solid | Lab File ID: 1CF05010.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 13:35

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.15(g) | Date Analyzed: 06/05/2013 13:34

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

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

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	97
208-96-8	Acenaphthylene	42	J	190	24
120-12-7	Anthracene	46		41	20
56-55-3	Benzo[a]anthracene	170		39	19
50-32-8	Benzo[a]pyrene	190		50	25
205-99-2	Benzo[b]fluoranthene	320		59	30
191-24-2	Benzo[g,h,i]perylene	180		97	21
207-08-9	Benzo[k]fluoranthene	70		39	17
218-01-9	Chrysene	270		44	22
53-70-3	Dibenz(a,h)anthracene	62	J	97	20
206-44-0	Fluoranthene	310		97	19
86-73-7	Fluorene	97	U	97	20
193-39-5	Indeno[1,2,3-cd]pyrene	140		97	34
90-12-0	1-Methylnaphthalene	110	J	190	21
91-57-6	2-Methylnaphthalene	100	J	190	34
91-20-3	Naphthalene	98	J	190	21
85-01-8	Phenanthrene	220		39	19
129-00-0	Pyrene	280		97	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05010.D
Lab Smp Id: 680-90723-A-29-A Client Smp ID: CV1164A-CS
Inj Date : 05-JUN-2013 13:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-29-a
Misc Info : 680-90723-A-29-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 10
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	18.182	% 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	4.039	4.039	(1.000)	2431026	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1723222	40.0000	
* 10 Phenanthrene-d10	188	6.092	6.092	(1.000)	3126391	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.042)	93415	1.91812	618.9768
* 18 Chrysene-d12	240	8.057	8.056	(1.000)	3467516	40.0000	
* 23 Perylene-d12	264	9.386	9.392	(1.000)	3481017	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	20939	0.30522	98.4937
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	12324	0.32387	104.5129
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	13129	0.35068	113.1651
5 Acenaphthylene	152	5.039	5.039	(0.983)	8606	0.13027	42.0392
9 Fluorene	166	5.469	5.468	(1.067)	1877	0.03551	11.4589(Q)
11 Phenanthrene	178	6.110	6.110	(1.003)	64360	0.69679	224.8525
12 Anthracene	178	6.145	6.145	(1.009)	12136	0.14182	45.7658
13 Carbazole	167	6.245	6.251	(1.025)	9384	0.23225	74.9468

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.963	6.962	(1.143)	91355	0.96763	312.2519
16 Pyrene	202	7.133	7.133	(0.885)	82186	0.87774	283.2455
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	48993	0.51240	165.3505
19 Chrysene	228	8.074	8.074	(1.002)	80628	0.83755	270.2749
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	85946	1.00490	324.2804
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.960)	20605	0.21570	69.6074(Q)
22 Benzo(a)pyrene	252	9.321	9.327	(0.993)	41690	0.57740	186.3273
24 Indeno(1,2,3-cd)pyrene	276	10.762	10.768	(1.147)	26281	0.44072	142.2194(M)
25 Dibenzo(a,h)anthracene	278	10.768	10.786	(1.147)	14347	0.19310	62.3125(M)
26 Benzo(g,h,i)perylene	276	11.174	11.186	(1.191)	44194	0.54649	176.3503(M)

QC Flag Legend

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

Data File: 1CF05010.D

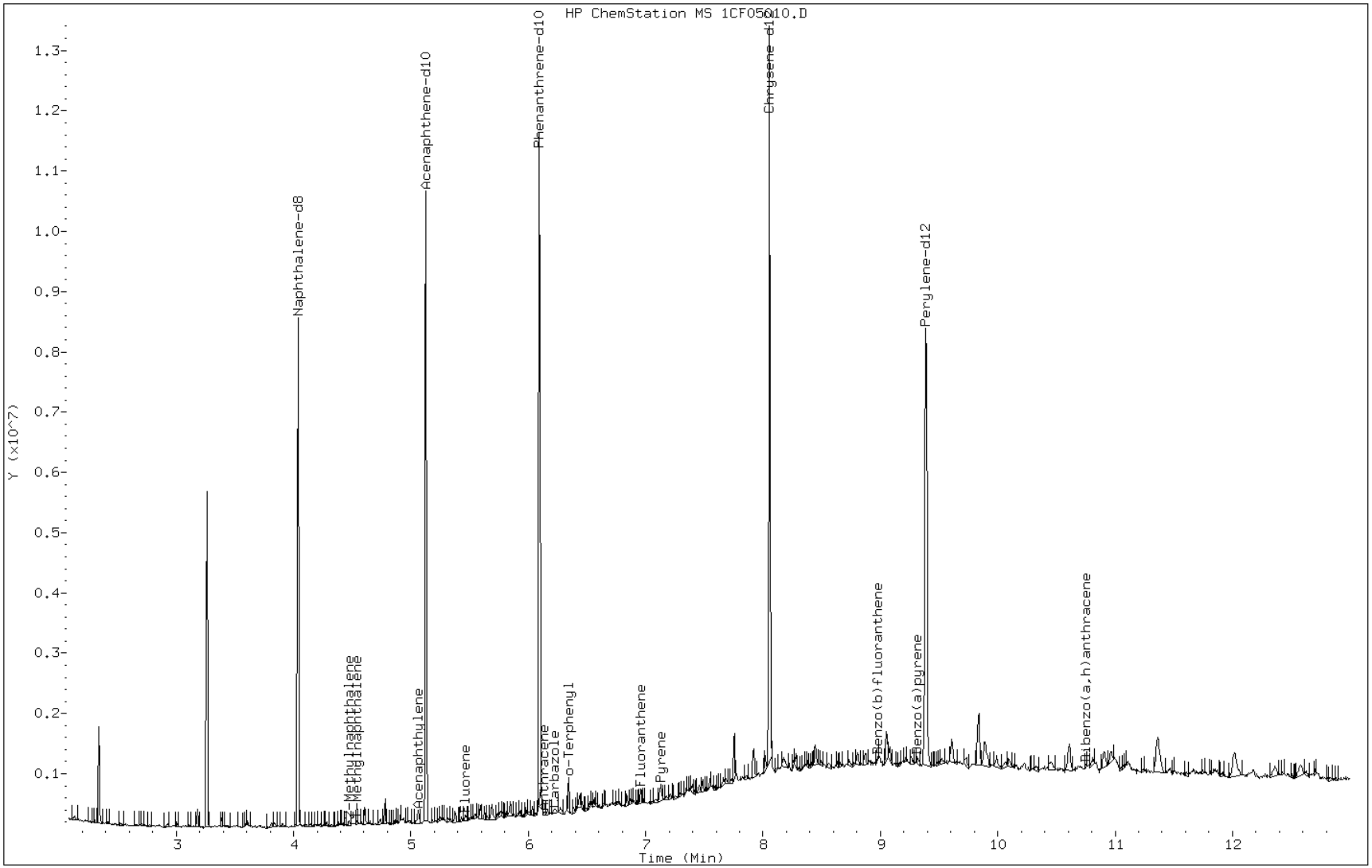
Date: 05-JUN-2013 13:34

Client ID: CV1164A-CS

Instrument: BSMC5973.i

Sample Info: 680-90723-a-29-a

Operator: SCC



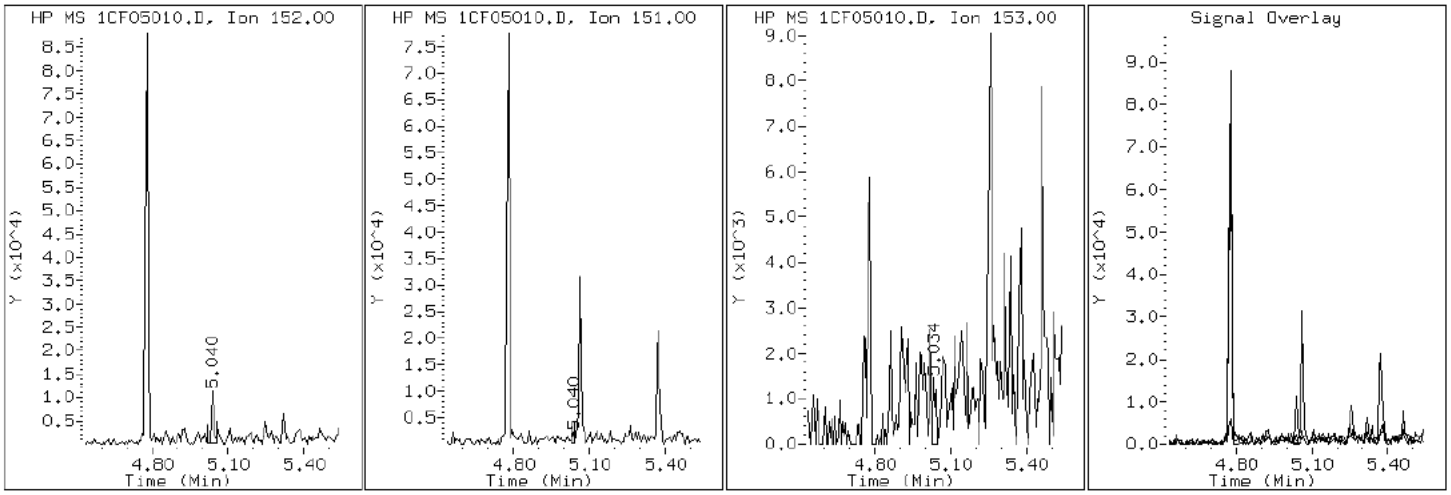
Data File: 1CF05010.D

Date: 05-JUN-2013 13:34

Client ID: CV1164A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-29-a Operator: SCC

5 Acenaphthylene



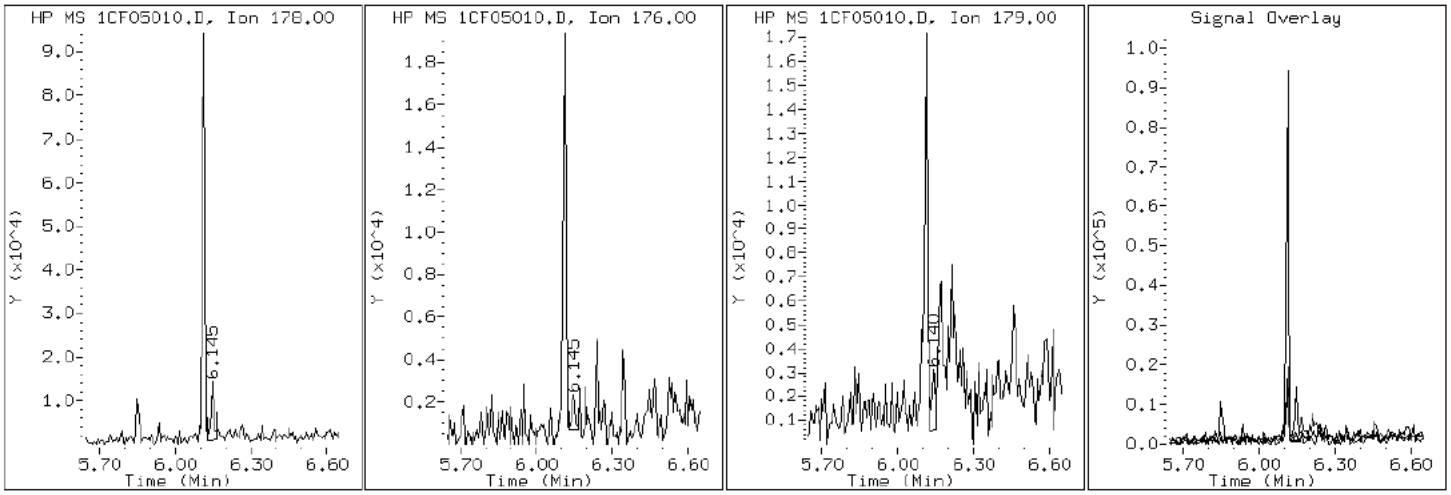
Data File: 1CF05010.D

Date: 05-JUN-2013 13:34

Client ID: CV1164A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-29-a Operator: SCC

12 Anthracene



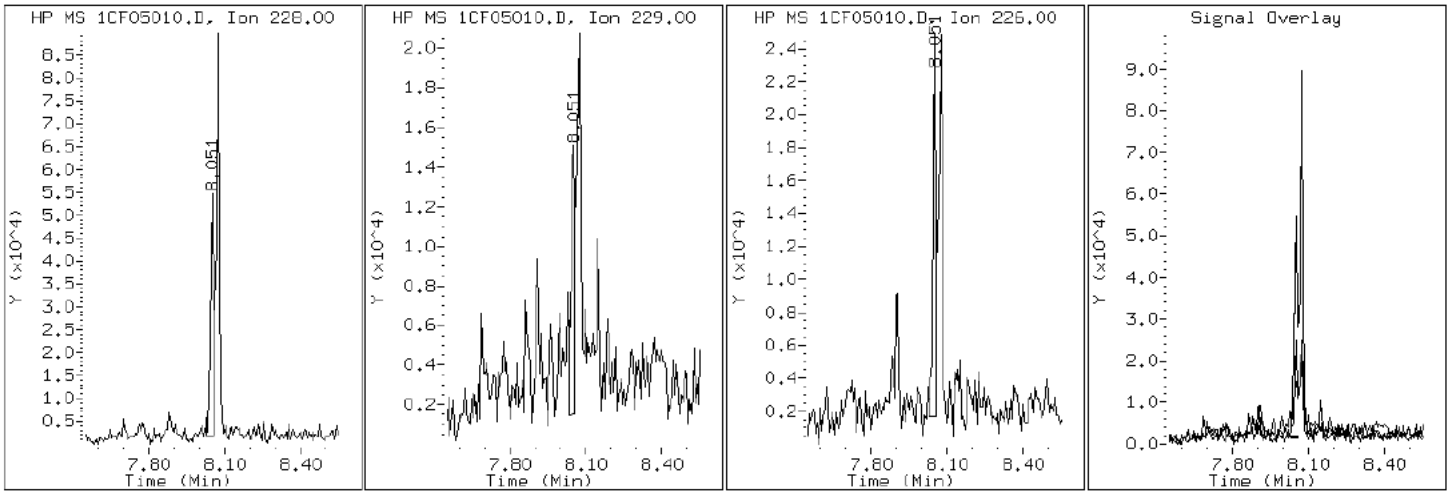
Data File: 1CF05010.D

Date: 05-JUN-2013 13:34

Client ID: CV1164A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-29-a Operator: SCC

17 Benzo(a)anthracene



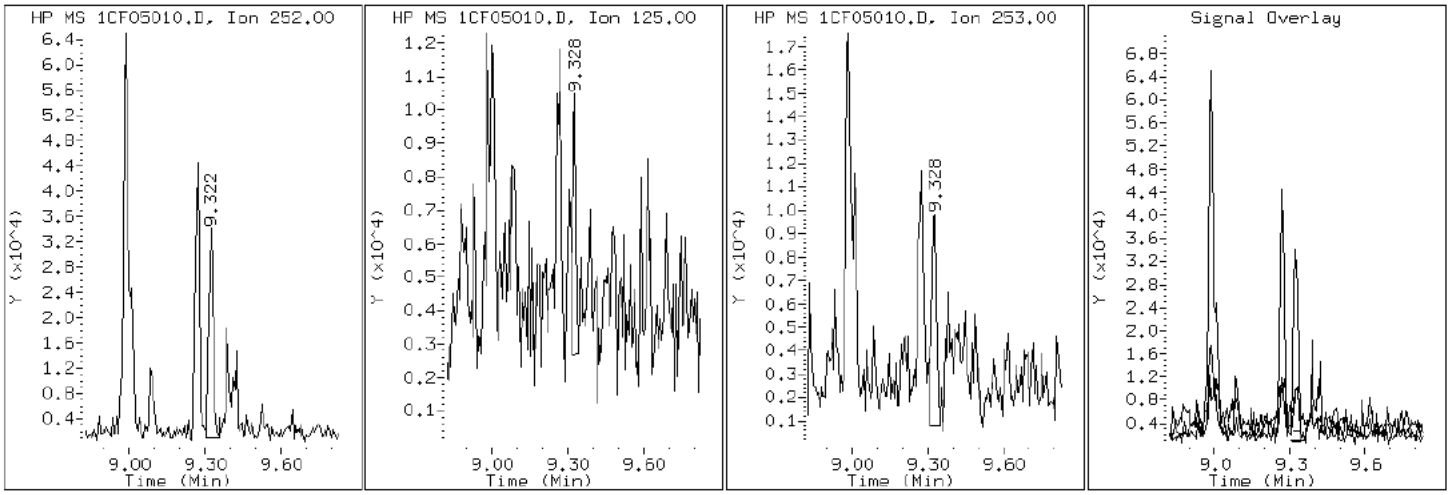
Data File: 1CF05010.D

Date: 05-JUN-2013 13:34

Client ID: CV1164A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-29-a Operator: SCC

22 Benzo(a)pyrene



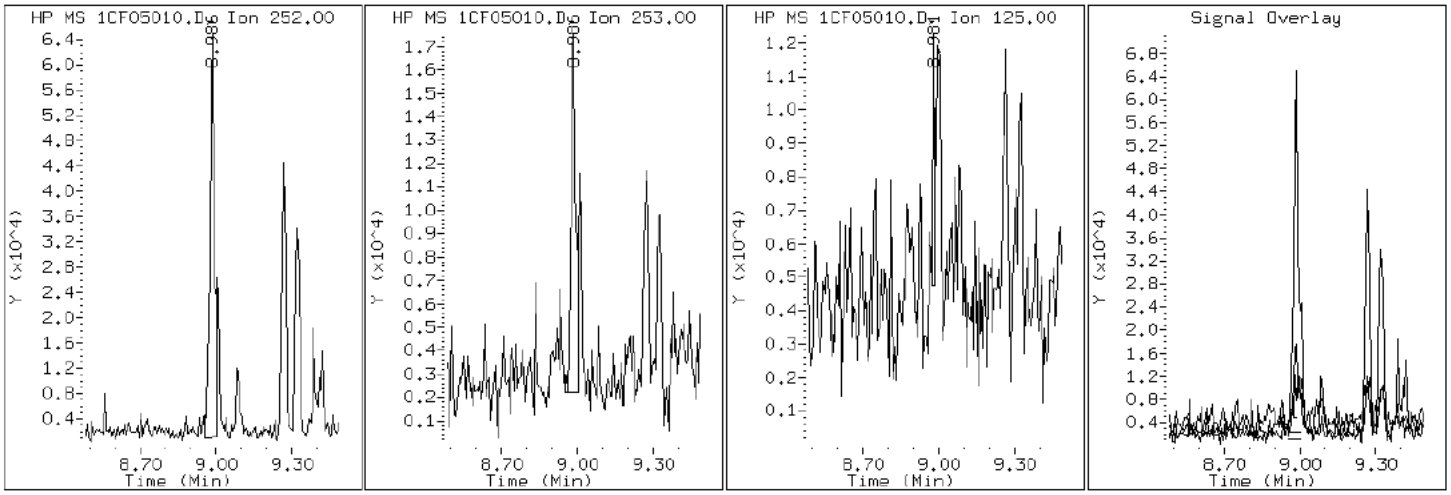
Data File: 1CF05010.D

Date: 05-JUN-2013 13:34

Client ID: CV1164A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-29-a Operator: SCC

20 Benzo(b)fluoranthene



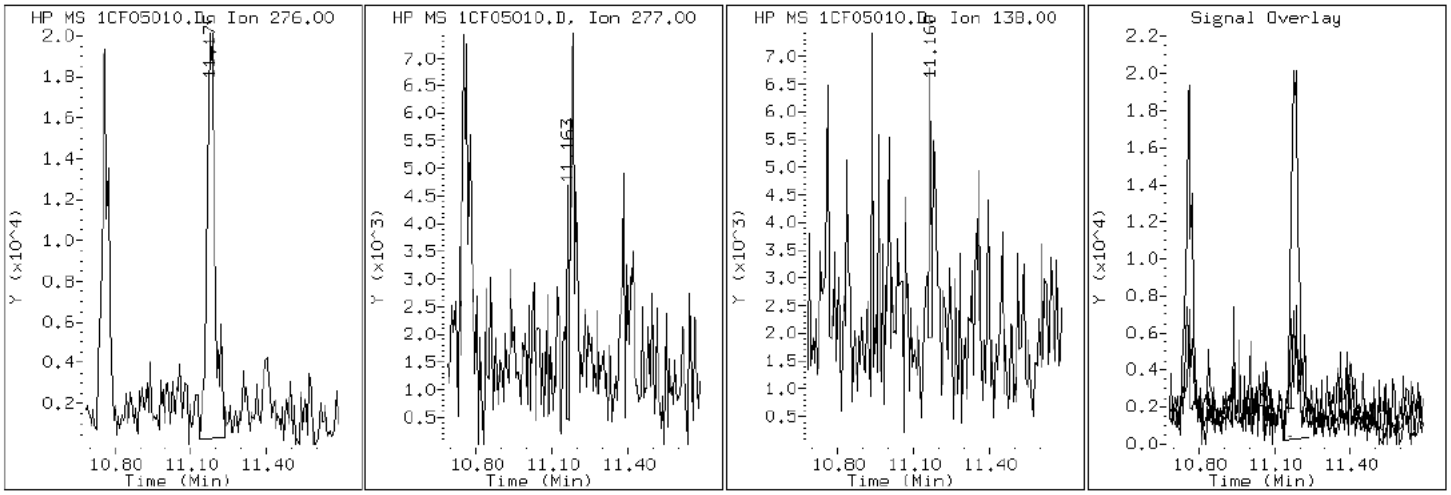
Data File: 1CF05010.D

Date: 05-JUN-2013 13:34

Client ID: CV1164A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-29-a Operator: SCC

26 Benzo(g,h,i)perylene



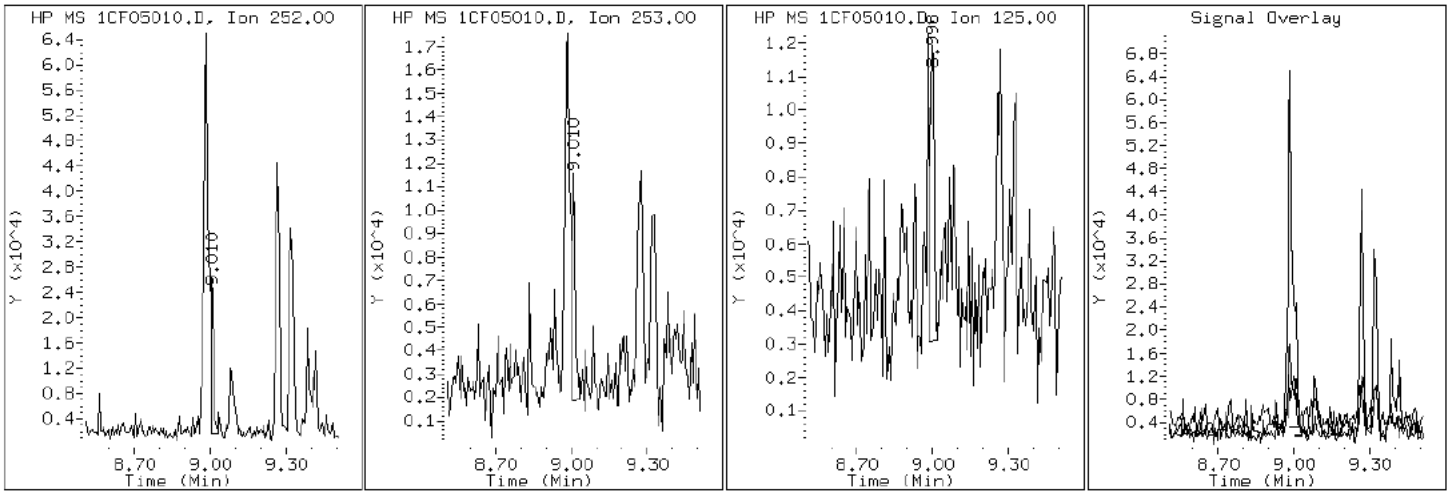
Data File: 1CF05010.D

Date: 05-JUN-2013 13:34

Client ID: CV1164A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-29-a Operator: SCC

21 Benzo(k)fluoranthene



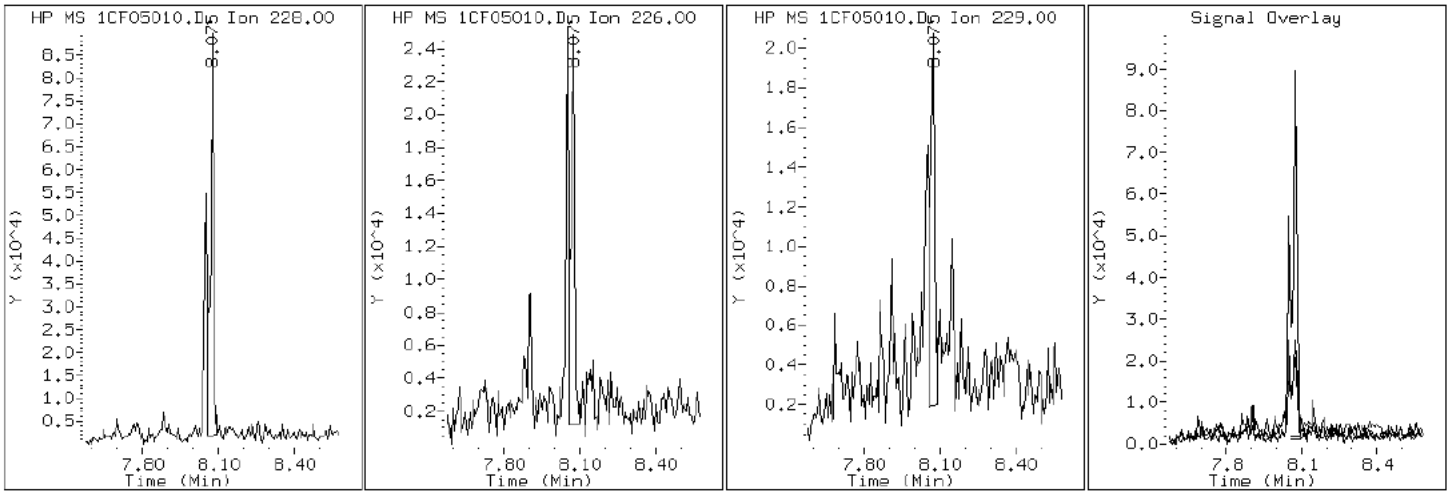
Data File: 1CF05010.D

Date: 05-JUN-2013 13:34

Client ID: CV1164A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-29-a Operator: SCC

19 Chrysene



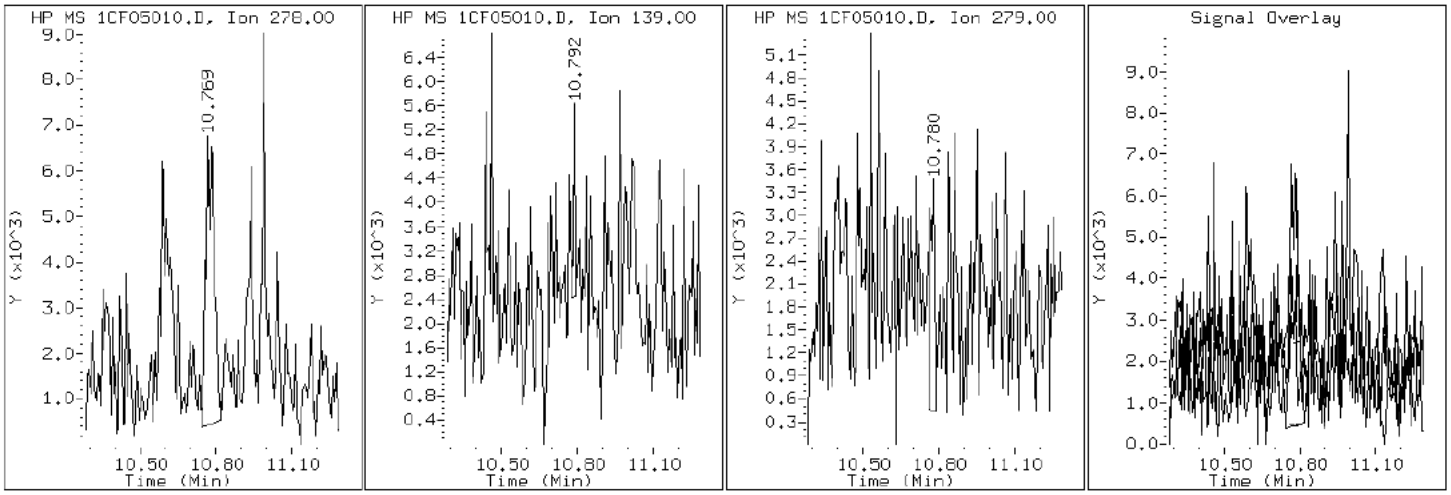
Data File: 1CF05010.D

Date: 05-JUN-2013 13:34

Client ID: CV1164A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-29-a Operator: SCC

25 Dibenzo(a,h)anthracene



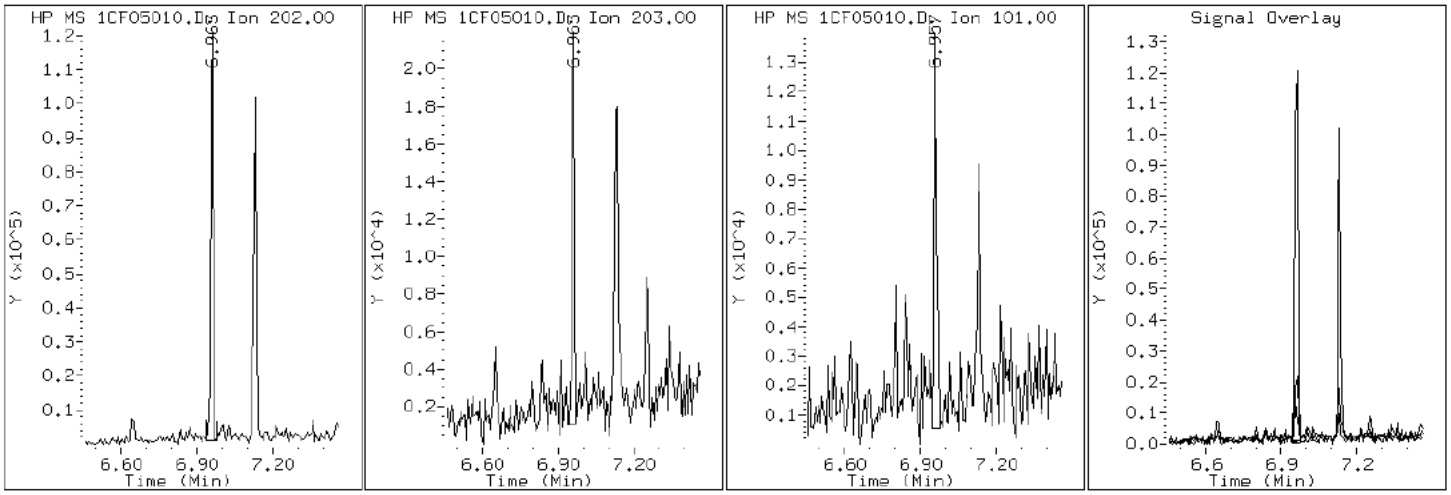
Data File: 1CF05010.D

Date: 05-JUN-2013 13:34

Client ID: CV1164A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-29-a Operator: SCC

15 Fluoranthene



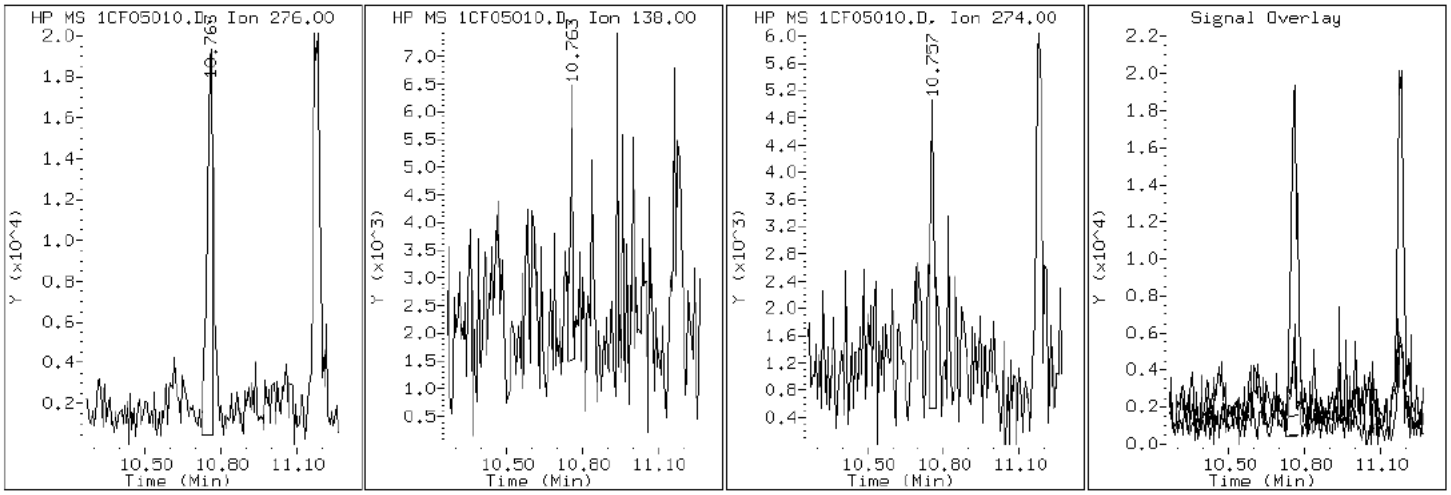
Data File: 1CF05010.D

Date: 05-JUN-2013 13:34

Client ID: CV1164A-CS | Instrument: BSMC5973.i

Sample Info: 680-90723-a-29-a | Operator: SCC

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



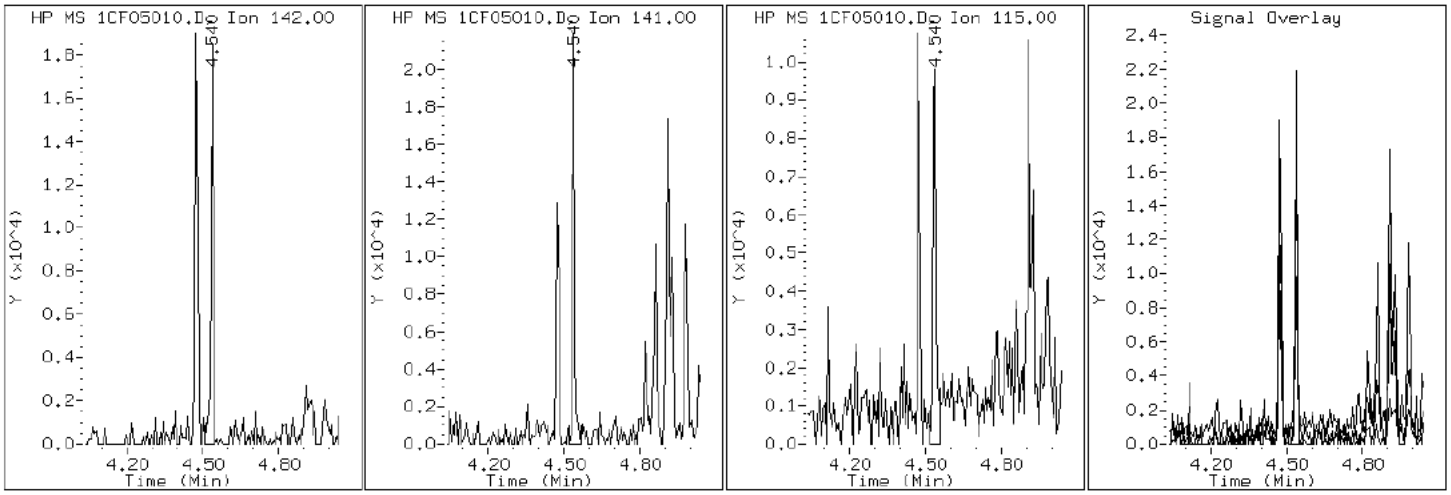
Data File: 1CF05010.D

Date: 05-JUN-2013 13:34

Client ID: CV1164A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-29-a Operator: SCC

4 1-Methylnaphthalene



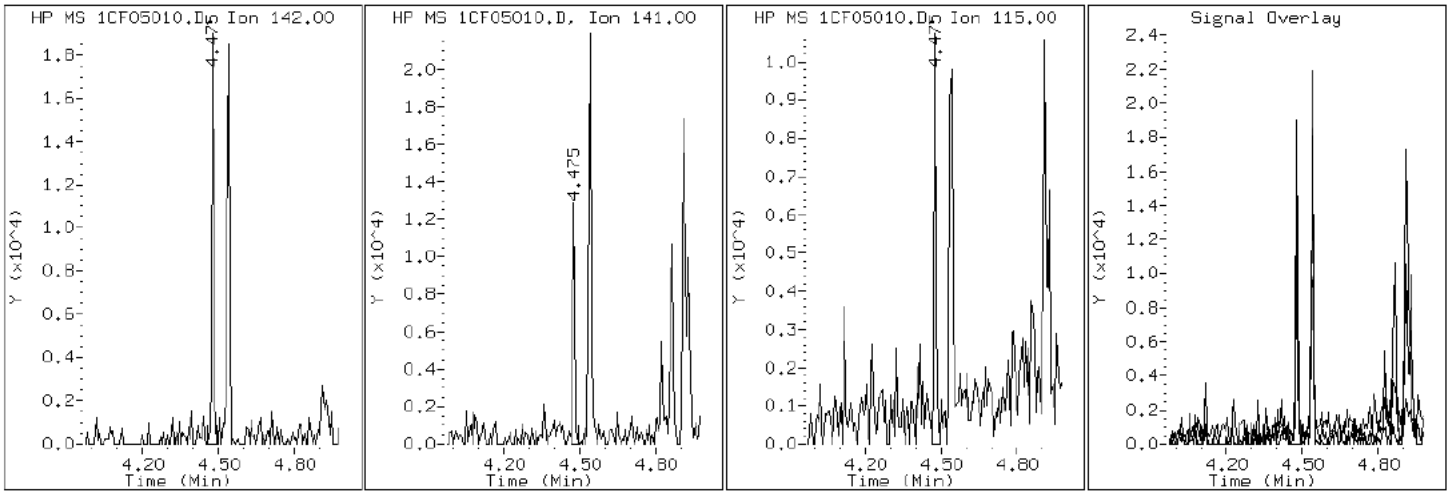
Data File: 1CF05010.D

Date: 05-JUN-2013 13:34

Client ID: CV1164A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-29-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CF05010.D

Date: 05-JUN-2013 13:34

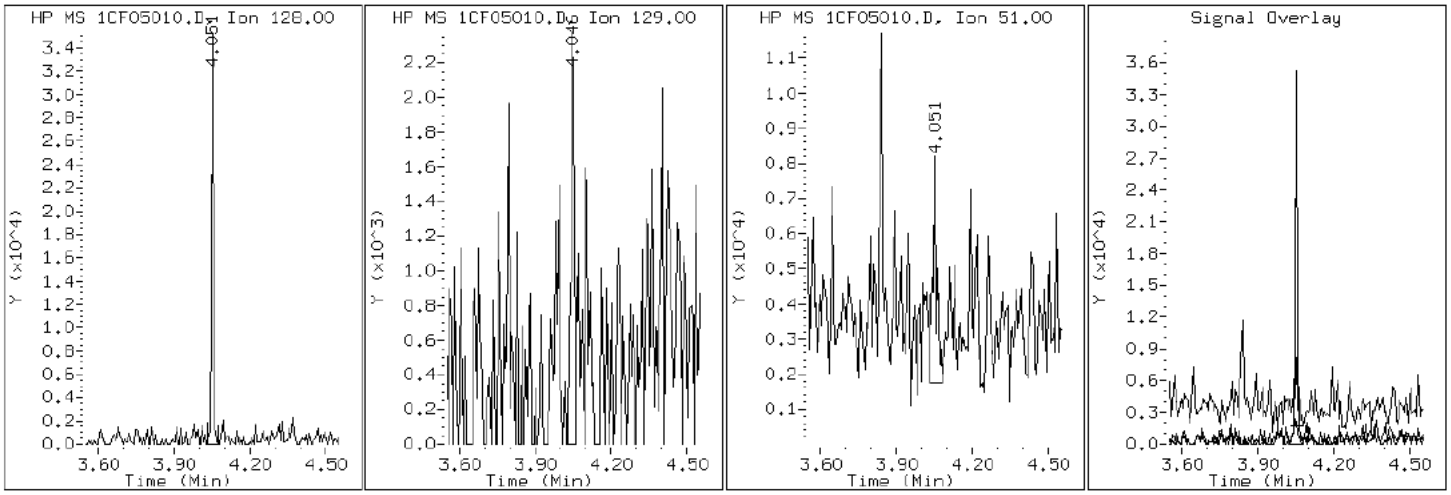
Client ID: CV1164A-CS

Instrument: BSMC5973.i

Sample Info: 680-90723-a-29-a

Operator: SCC

2 Naphthalene



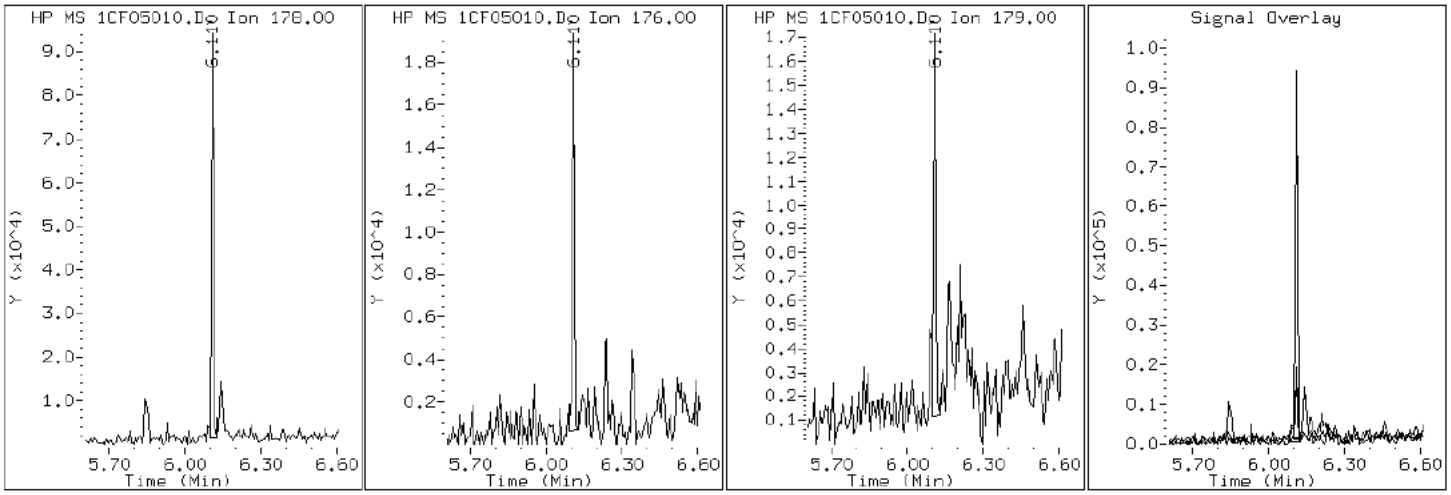
Data File: 1CF05010.D

Date: 05-JUN-2013 13:34

Client ID: CV1164A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-29-a Operator: SCC

11 Phenanthrene



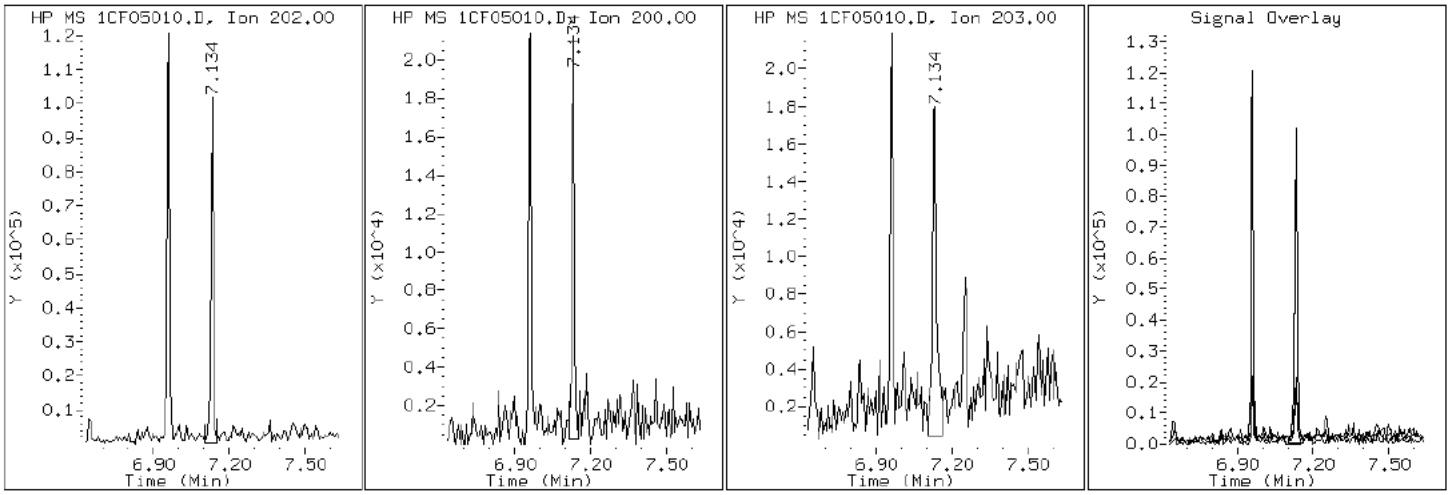
Data File: 1CF05010.D

Date: 05-JUN-2013 13:34

Client ID: CV1164A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-29-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF05010.D
Inj. Date and Time: 05-JUN-2013 13:34
Instrument ID: BSMC5973.i
Client ID: CV1164A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/05/2013

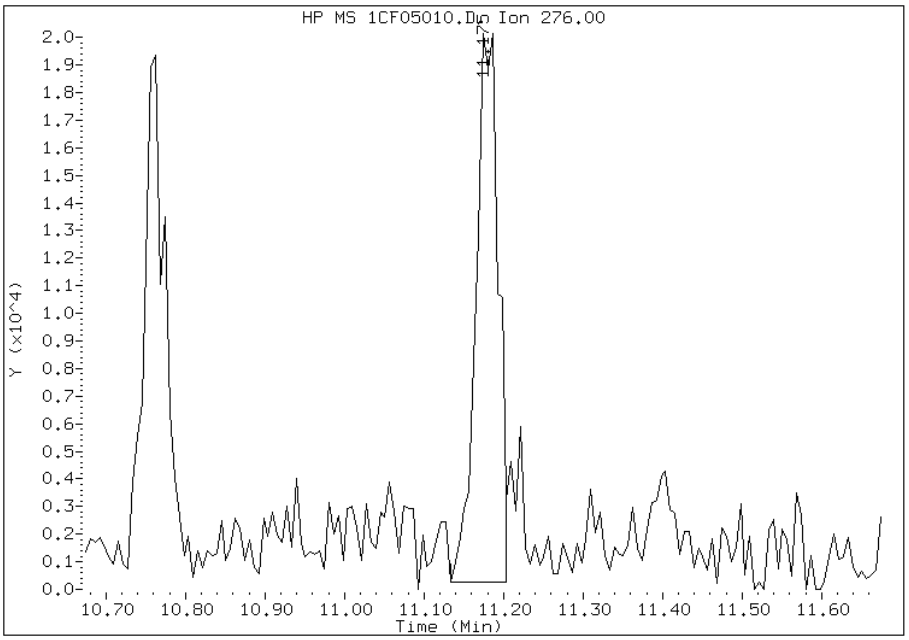
Processing Integration Results

RT: 11.17

Response: 39219

Amount: 0

Conc: 156



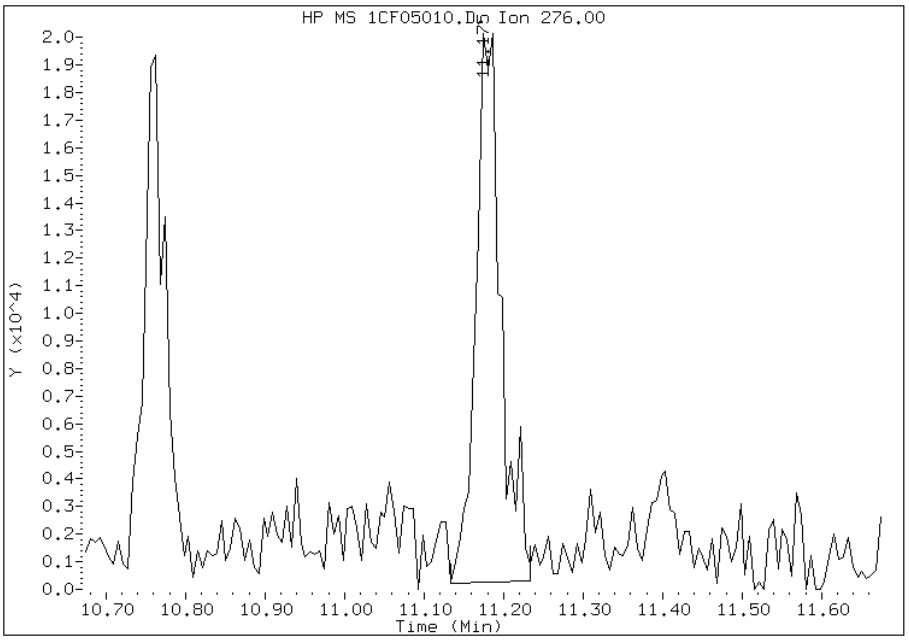
Manual Integration Results

RT: 11.17

Response: 44194

Amount: 1

Conc: 176



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF05010.D
Inj. Date and Time: 05-JUN-2013 13:34
Instrument ID: BSMC5973.i
Client ID: CV1164A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/05/2013

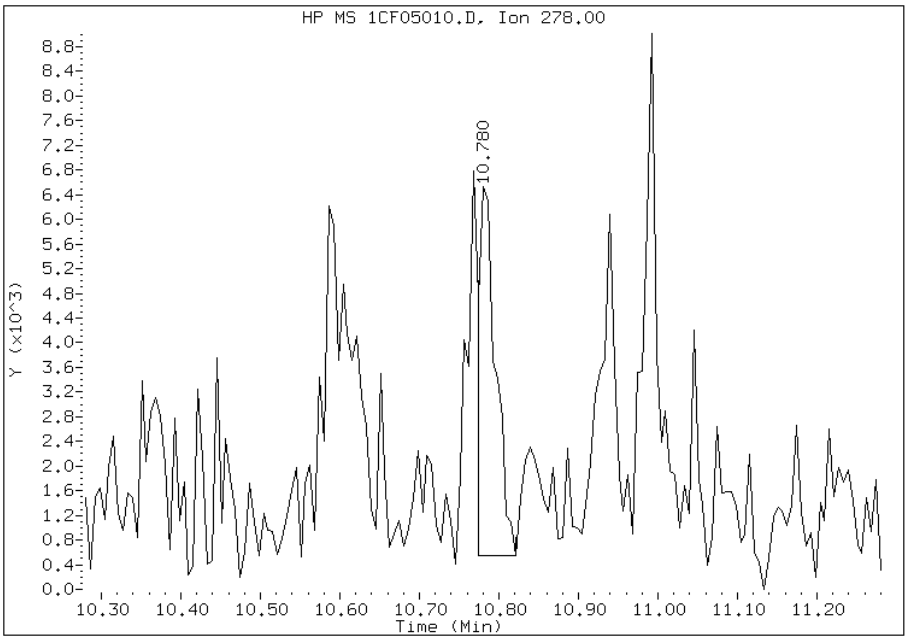
Processing Integration Results

RT: 10.78

Response: 8965

Amount: 0

Conc: 39



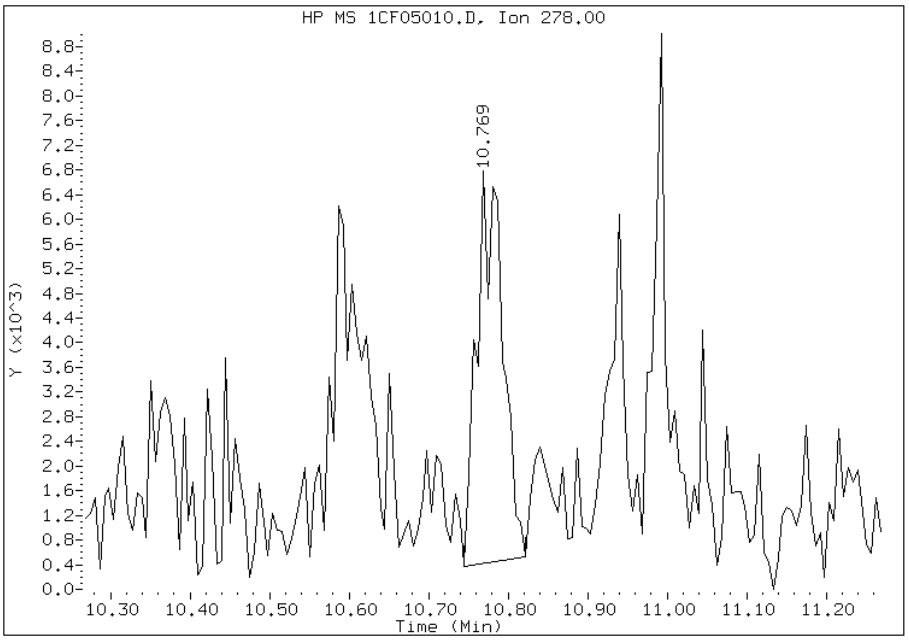
Manual Integration Results

RT: 10.77

Response: 14347

Amount: 0

Conc: 62



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF05010.D
Inj. Date and Time: 05-JUN-2013 13:34
Instrument ID: BSMC5973.i
Client ID: CV1164A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

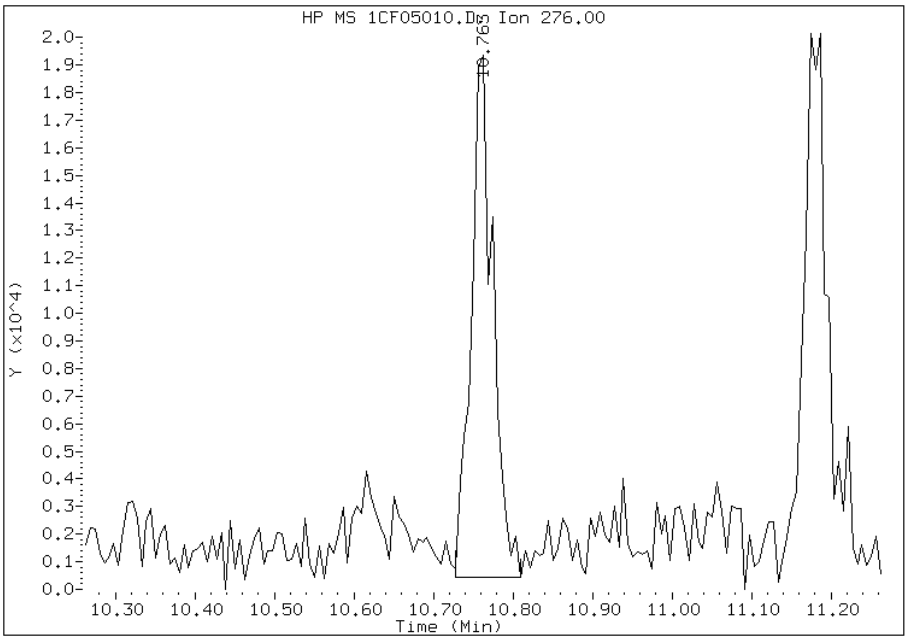
Processing Integration Results

RT: 10.76

Response: 35817

Amount: 1

Conc: 175



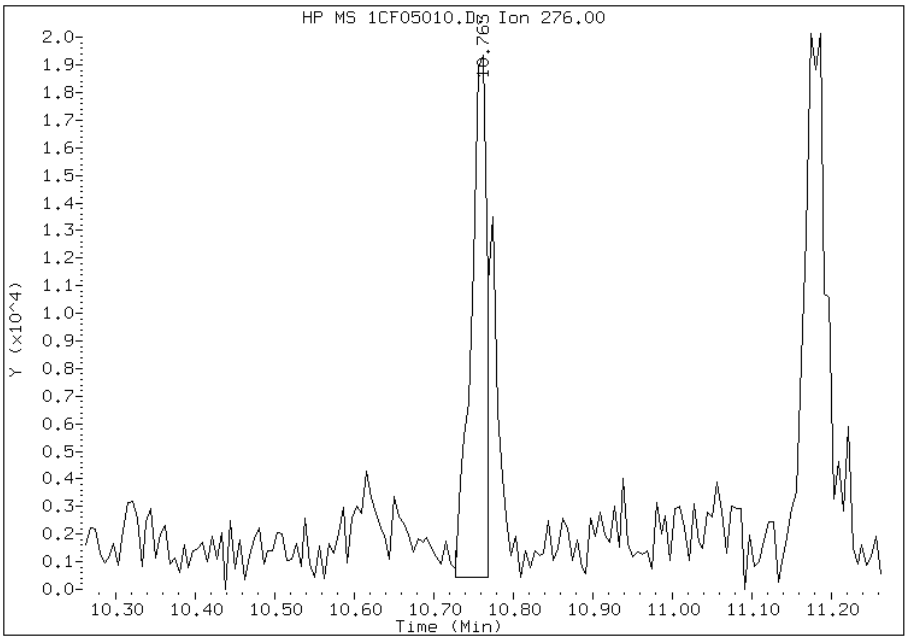
Manual Integration Results

RT: 10.76

Response: 26281

Amount: 0

Conc: 142



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV1164B-CS | Lab Sample ID: 680-90723-30

Matrix: Solid | Lab File ID: 1CF05011.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 13:45

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.01(g) | Date Analyzed: 06/05/2013 13:52

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

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

% Moisture: 13.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	460	U	460	93
208-96-8	Acenaphthylene	23	J	190	23
120-12-7	Anthracene	45		39	19
56-55-3	Benzo[a]anthracene	240		37	18
50-32-8	Benzo[a]pyrene	200		48	24
205-99-2	Benzo[b]fluoranthene	370		57	28
191-24-2	Benzo[g,h,i]perylene	180		93	20
207-08-9	Benzo[k]fluoranthene	130		37	17
218-01-9	Chrysene	260		42	21
53-70-3	Dibenz(a,h)anthracene	51	J	93	19
206-44-0	Fluoranthene	340		93	19
86-73-7	Fluorene	21	J	93	19
193-39-5	Indeno[1,2,3-cd]pyrene	180		93	33
90-12-0	1-Methylnaphthalene	78	J	190	20
91-57-6	2-Methylnaphthalene	67	J	190	33
91-20-3	Naphthalene	78	J	190	20
85-01-8	Phenanthrene	230		37	18
129-00-0	Pyrene	280		93	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	83		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05011.D
Lab Smp Id: 680-90723-A-30-A Client Smp ID: CV1164B-CS
Inj Date : 05-JUN-2013 13:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-30-a
Misc Info : 680-90723-A-30-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 11
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	15.010	Weight Extracted
M	13.770	% 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	4.039	4.039	(1.000)	2552486	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1808919	40.0000	
* 10 Phenanthrene-d10	188	6.092	6.092	(1.000)	3231938	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.042)	104312	2.07193	640.3161
* 18 Chrysene-d12	240	8.056	8.056	(1.000)	3583006	40.0000	
* 23 Perylene-d12	264	9.386	9.392	(1.000)	3401772	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	18075	0.25093	77.5495
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	8611	0.21553	66.6070
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	9974	0.25373	78.4149
5 Acenaphthylene	152	5.039	5.039	(0.983)	5161	0.07442	23.0001(Q)
9 Fluorene	166	5.474	5.468	(1.068)	3763	0.06782	20.9584
11 Phenanthrene	178	6.109	6.110	(1.003)	71471	0.74850	231.3204
12 Anthracene	178	6.145	6.145	(1.009)	12919	0.14604	45.1332
13 Carbazole	167	6.245	6.251	(1.025)	11731	0.25682	79.3693(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.956	6.962	(1.142)	105912	1.08518	335.3670
16 Pyrene	202	7.133	7.133	(0.885)	89058	0.92047	284.4665
17 Benzo(a)anthracene	228	8.045	8.051	(0.999)	75574	0.76492	236.3943
19 Chrysene	228	8.074	8.074	(1.002)	83091	0.83531	258.1469
20 Benzo(b)fluoranthene	252	8.980	8.986	(0.957)	101196	1.21077	374.1808(M)
21 Benzo(k)fluoranthene	252	9.003	9.009	(0.959)	39150	0.41939	129.6099(M)
22 Benzo(a)pyrene	252	9.321	9.327	(0.993)	45397	0.63188	195.2769
24 Indeno(1,2,3-cd)pyrene	276	10.756	10.768	(1.146)	38717	0.58398	180.4753(M)
25 Dibenzo(a,h)anthracene	278	10.786	10.786	(1.149)	11976	0.16494	50.9741(M)
26 Benzo(g,h,i)perylene	276	11.174	11.186	(1.191)	46549	0.58902	182.0314

QC Flag Legend

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

Data File: 1CF05011.D

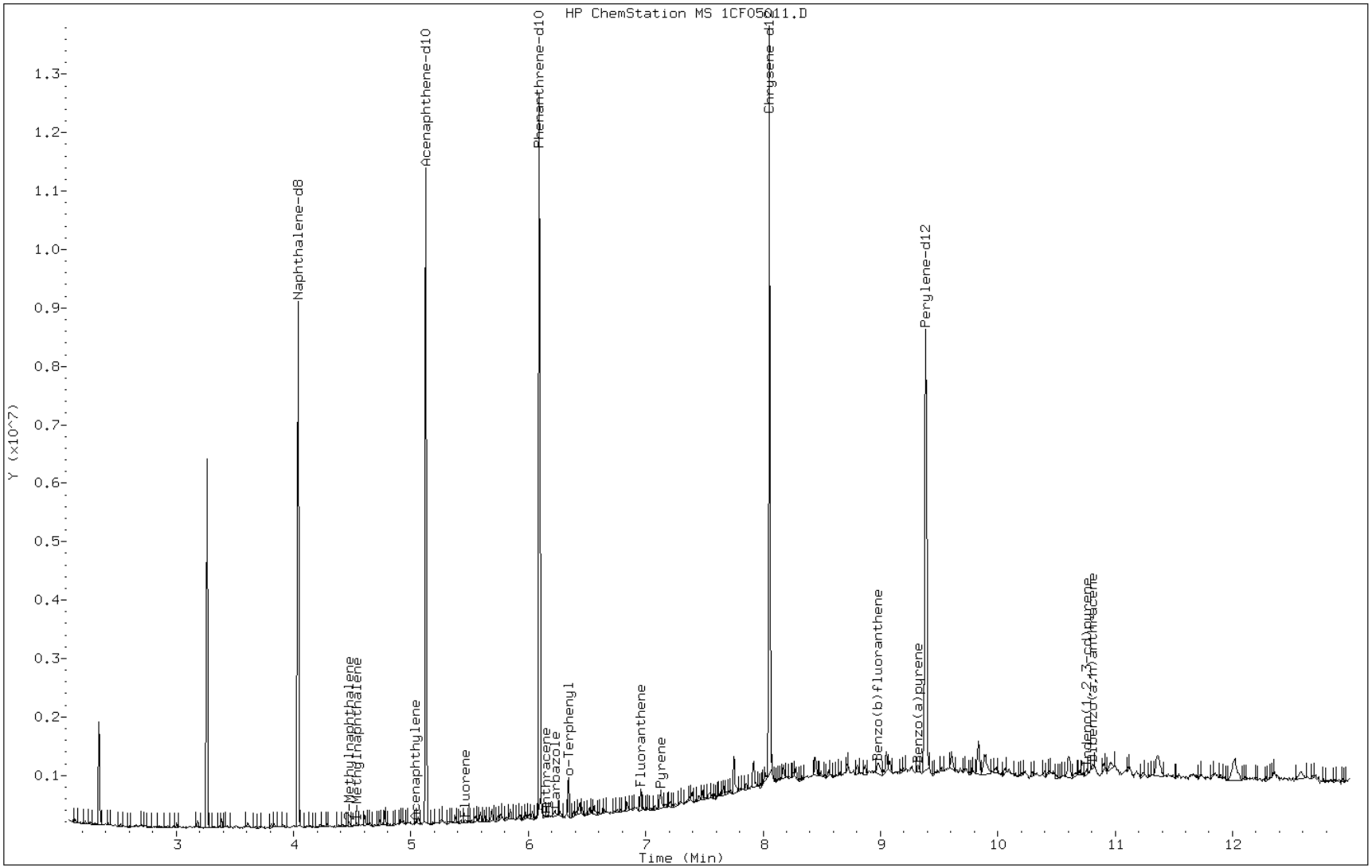
Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS

Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a

Operator: SCC



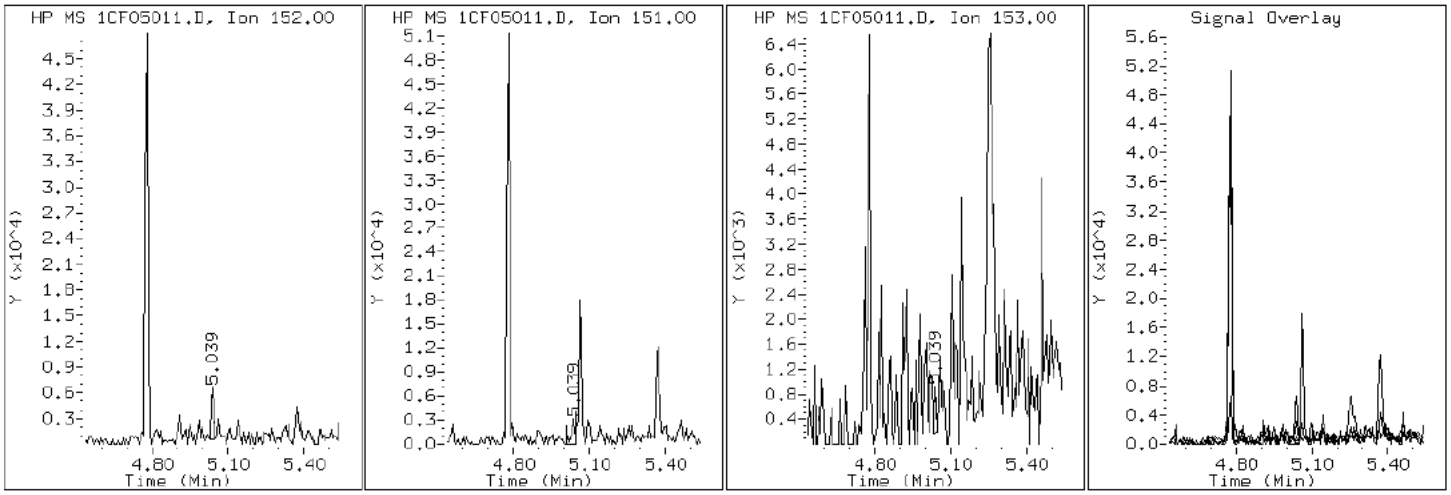
Data File: 1CF05011.D

Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a Operator: SCC

5 Acenaphthylene



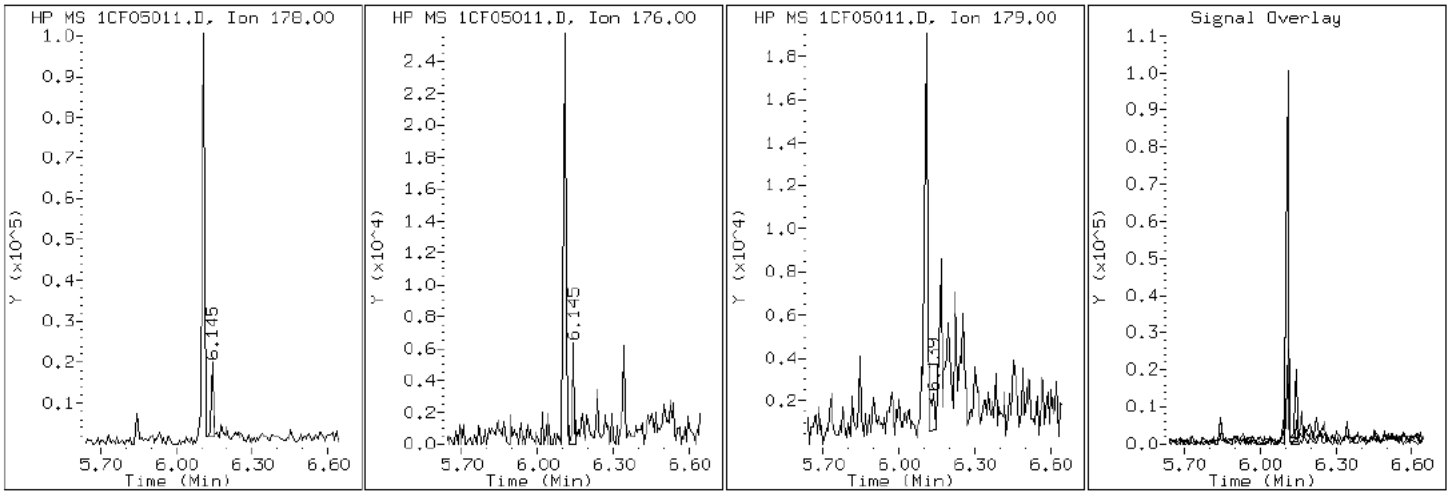
Data File: 1CF05011.D

Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a Operator: SCC

12 Anthracene



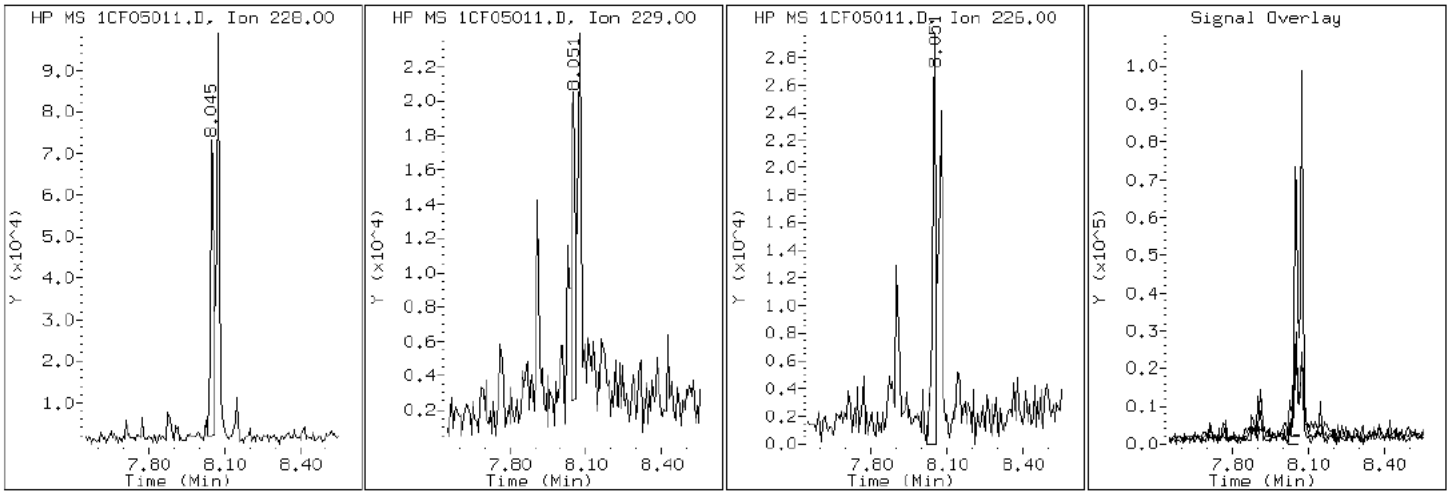
Data File: 1CF05011.D

Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a Operator: SCC

17 Benzo(a)anthracene



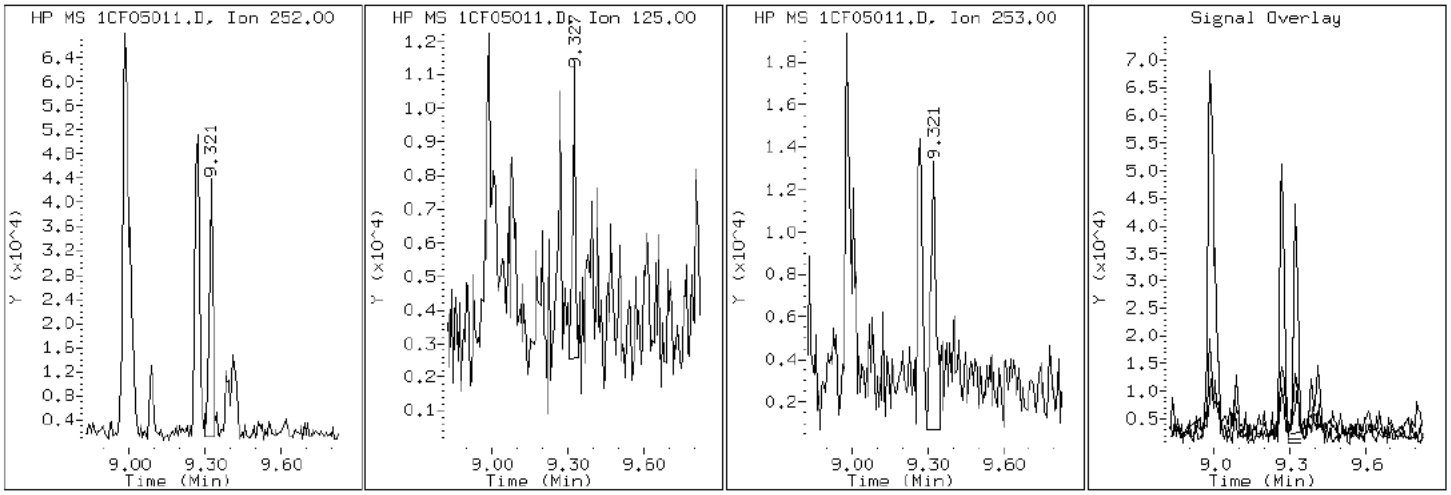
Data File: 1CF05011.D

Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a Operator: SCC

22 Benzo(a)pyrene



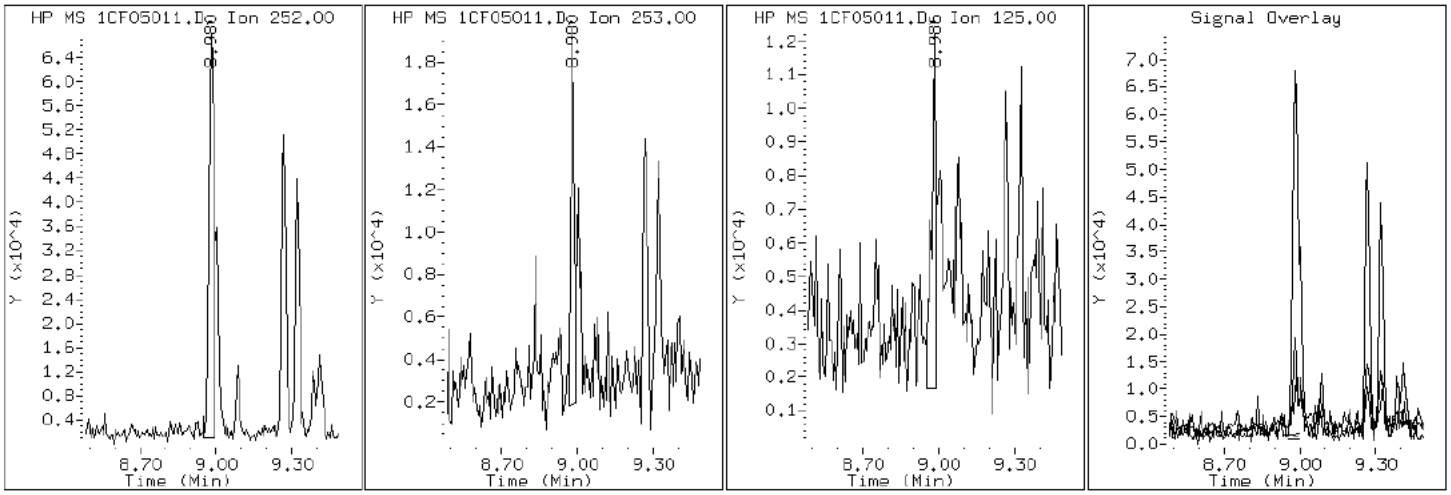
Data File: 1CF05011.D

Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a Operator: SCC

20 Benzo(b)fluoranthene



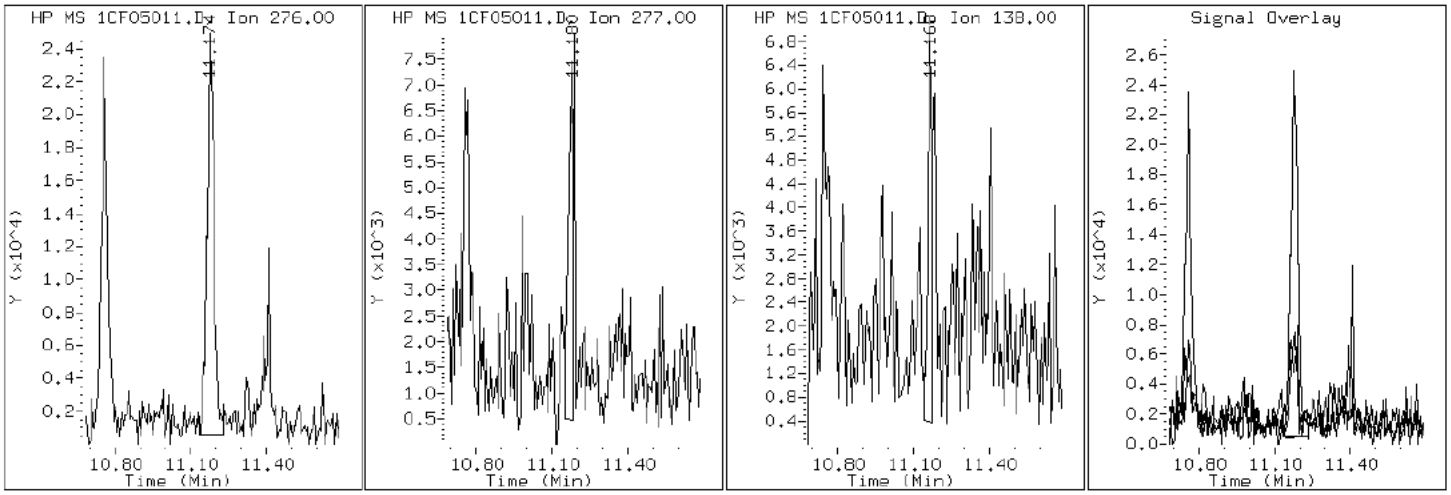
Data File: 1CF05011.D

Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a Operator: SCC

26 Benzo(g,h,i)perylene



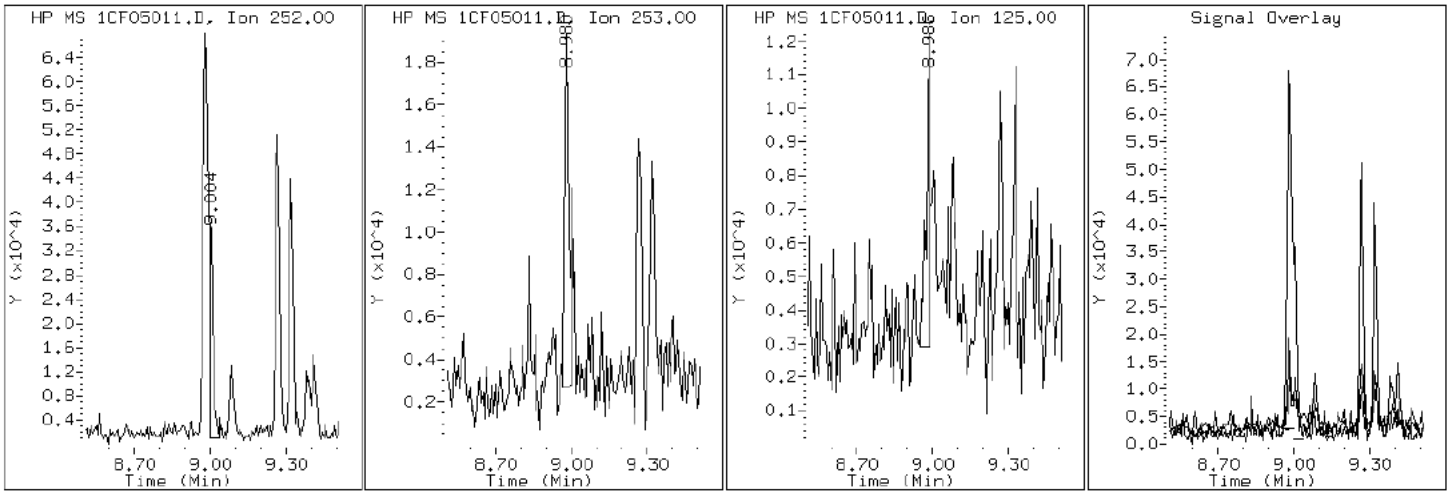
Data File: 1CF05011.D

Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS | Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a | Operator: SCC

21 Benzo(k)fluoranthene



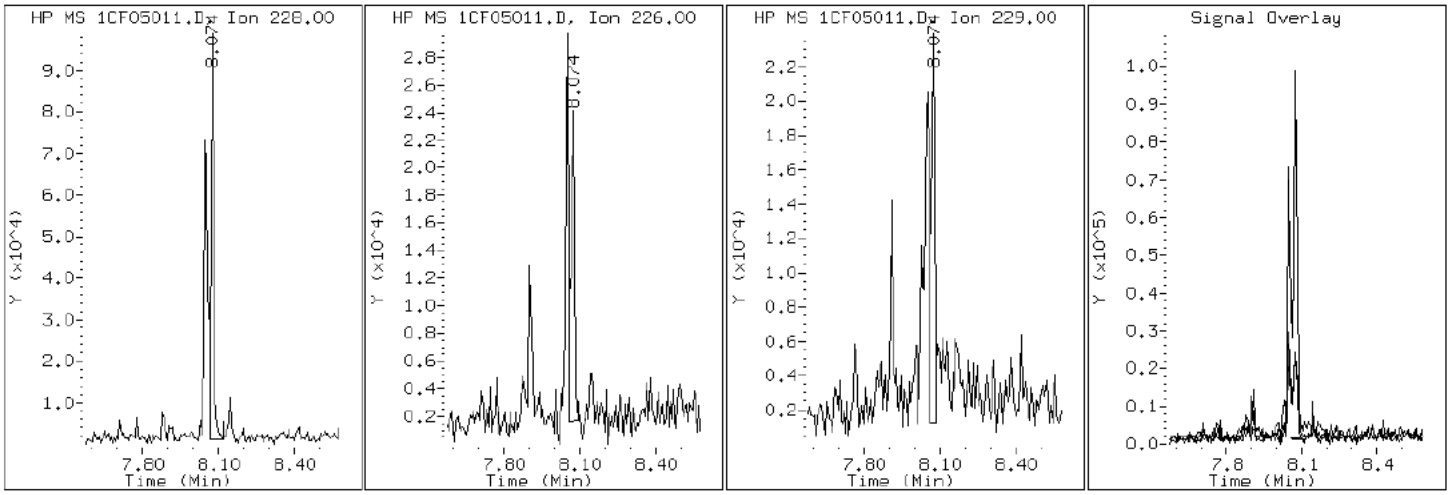
Data File: 1CF05011.D

Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a Operator: SCC

19 Chrysene



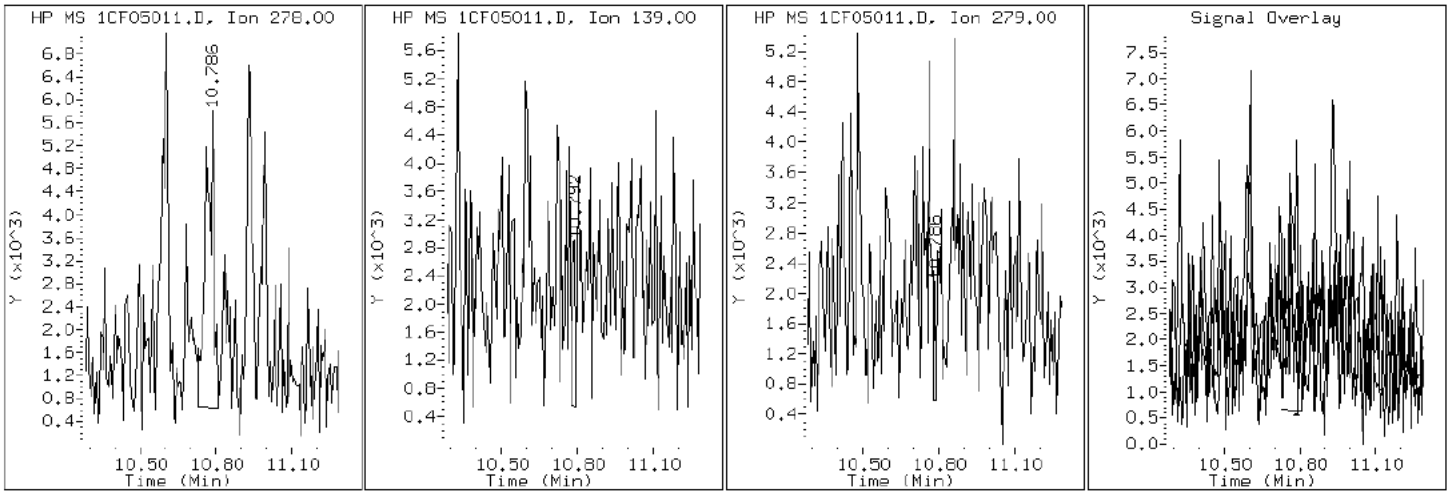
Data File: 1CF05011.D

Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a Operator: SCC

25 Dibenzo(a,h)anthracene



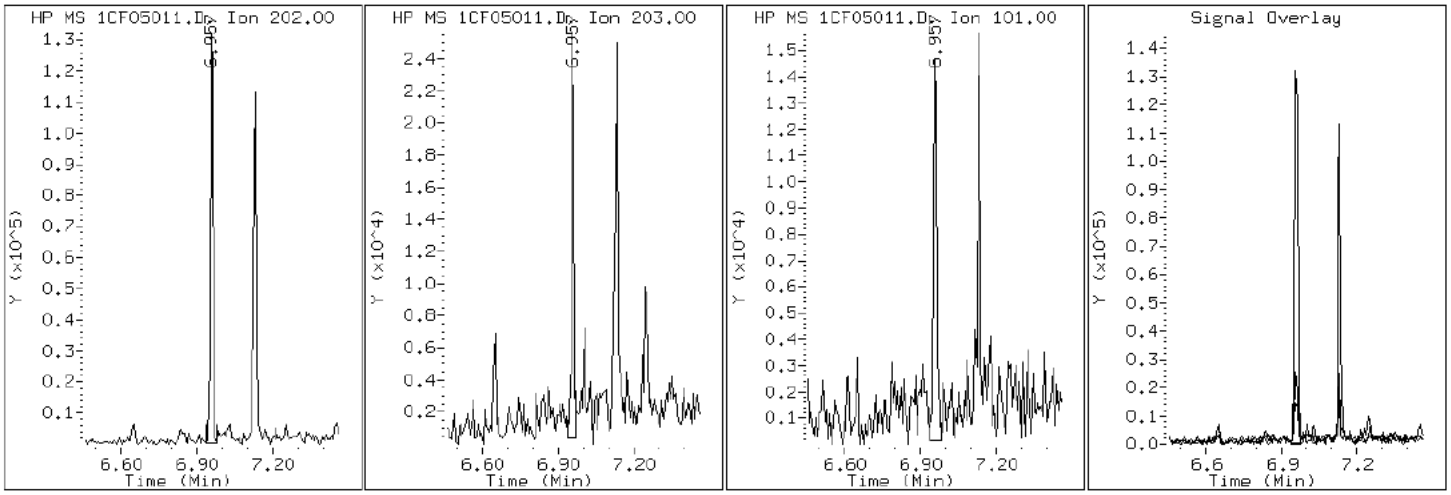
Data File: 1CF05011.D

Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a Operator: SCC

15 Fluoranthene



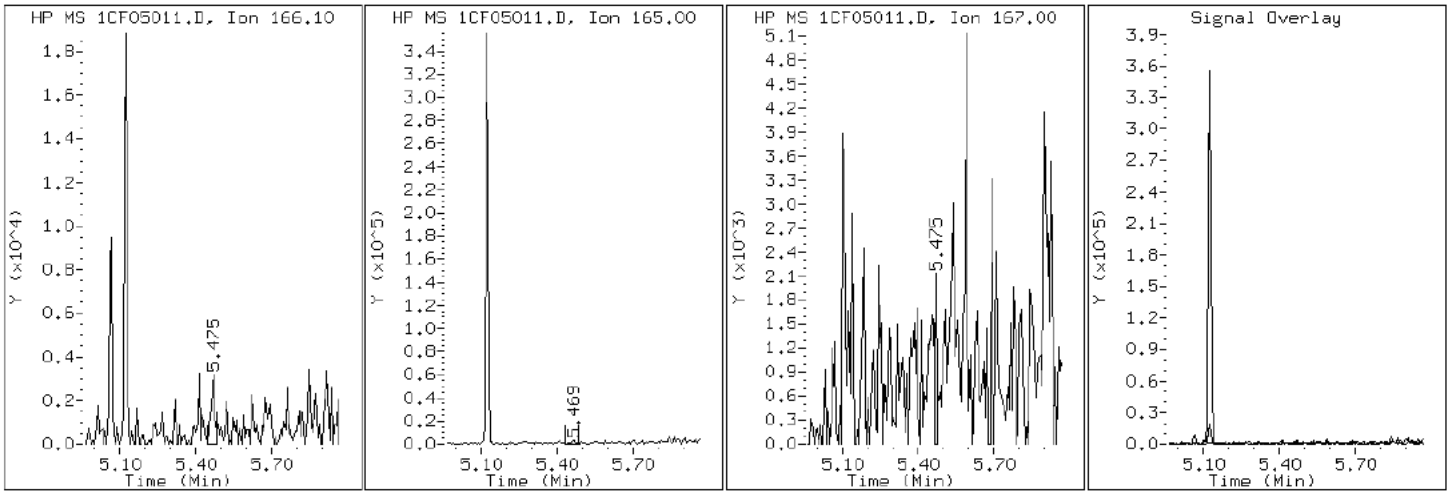
Data File: 1CF05011.D

Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a Operator: SCC

9 Fluorene



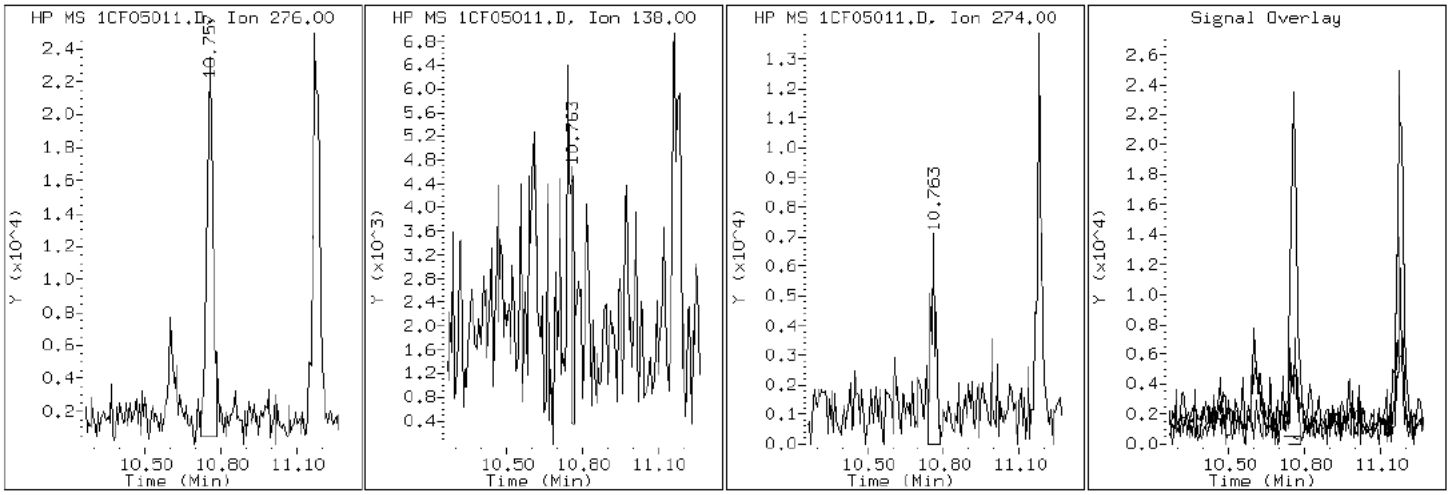
Data File: 1CF05011.D

Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a Operator: SCC

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



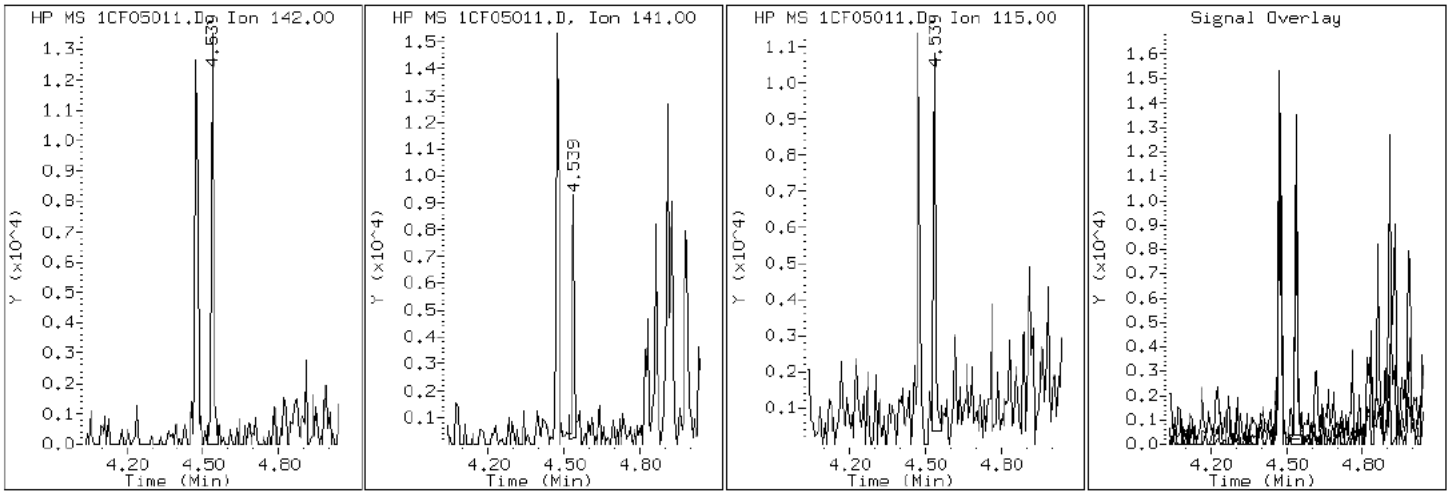
Data File: 1CF05011.D

Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a Operator: SCC

4 1-Methylnaphthalene



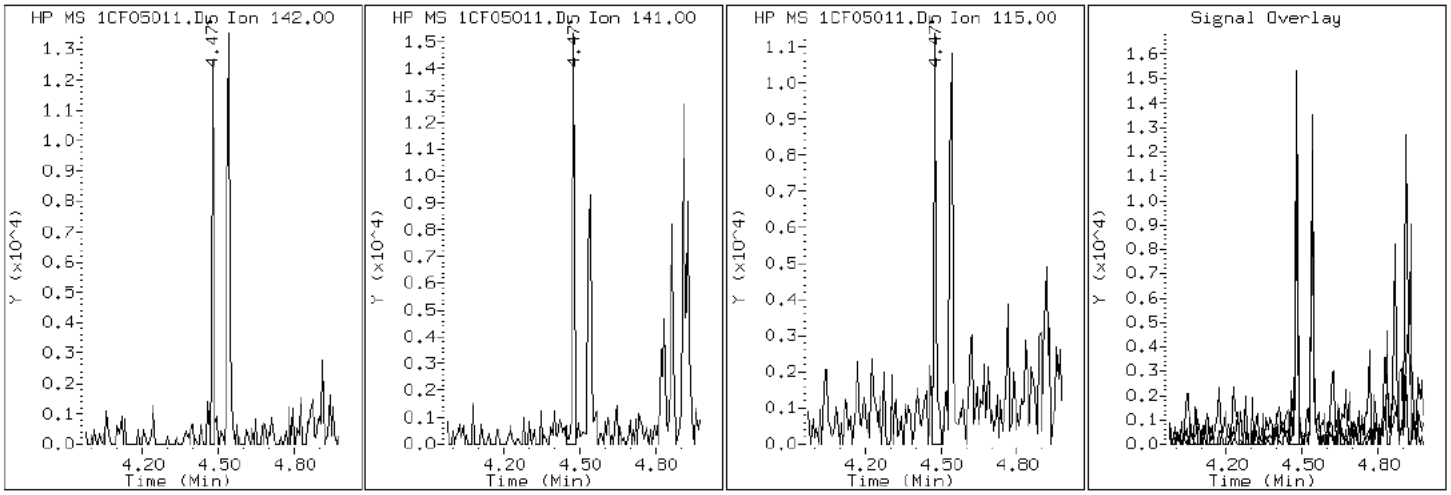
Data File: 1CF05011.D

Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a Operator: SCC

3 2-Methylnaphthalene



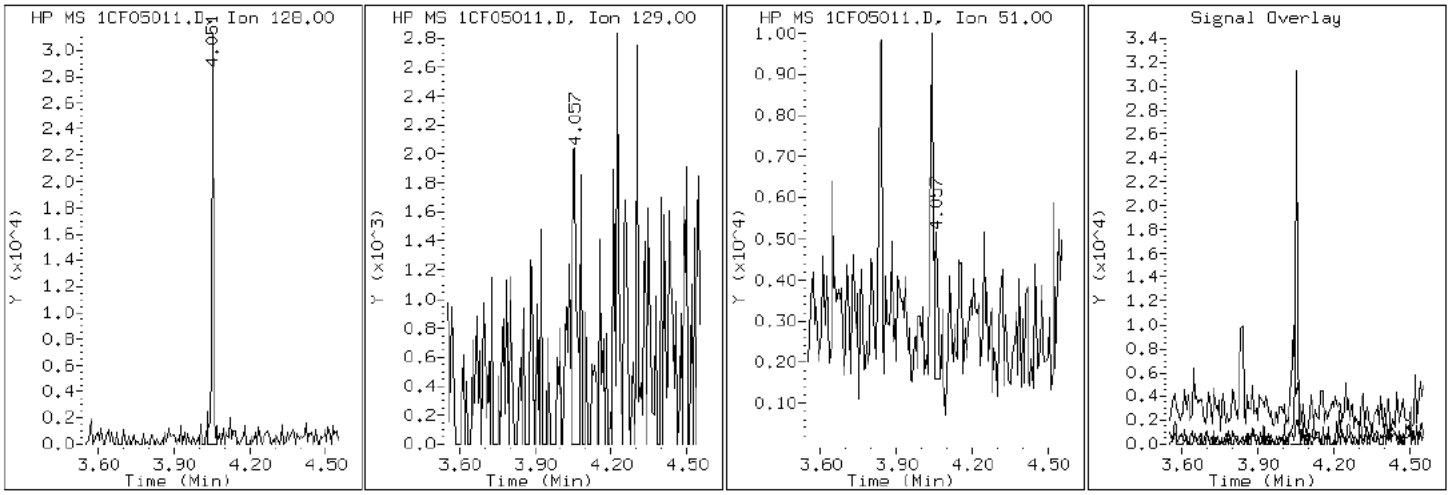
Data File: 1CF05011.D

Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a Operator: SCC

2 Naphthalene



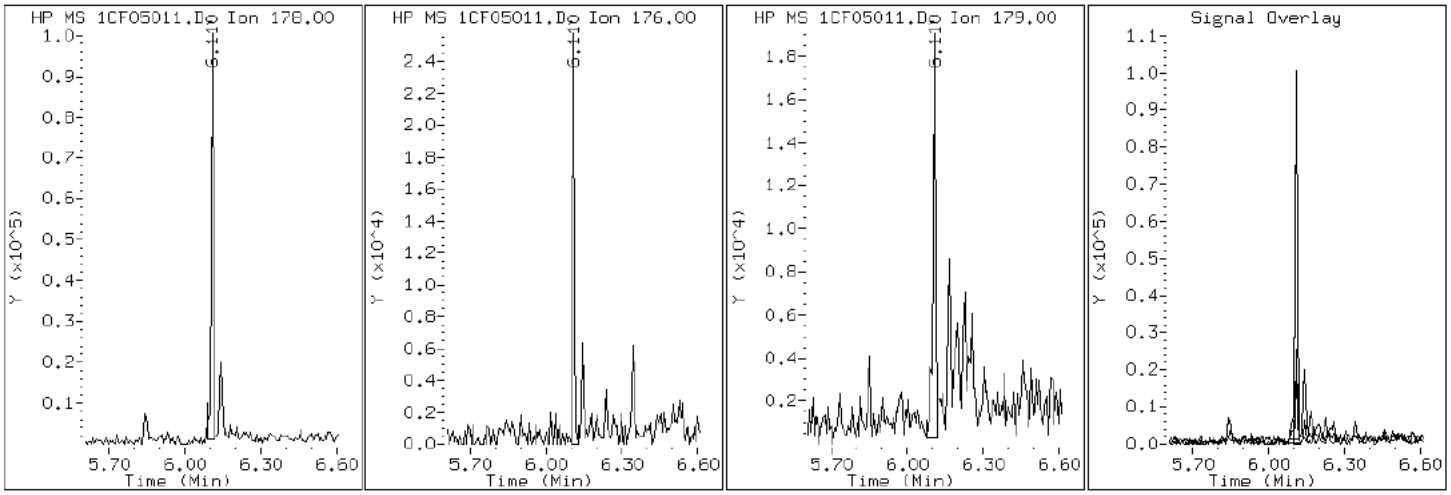
Data File: 1CF05011.D

Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a Operator: SCC

11 Phenanthrene



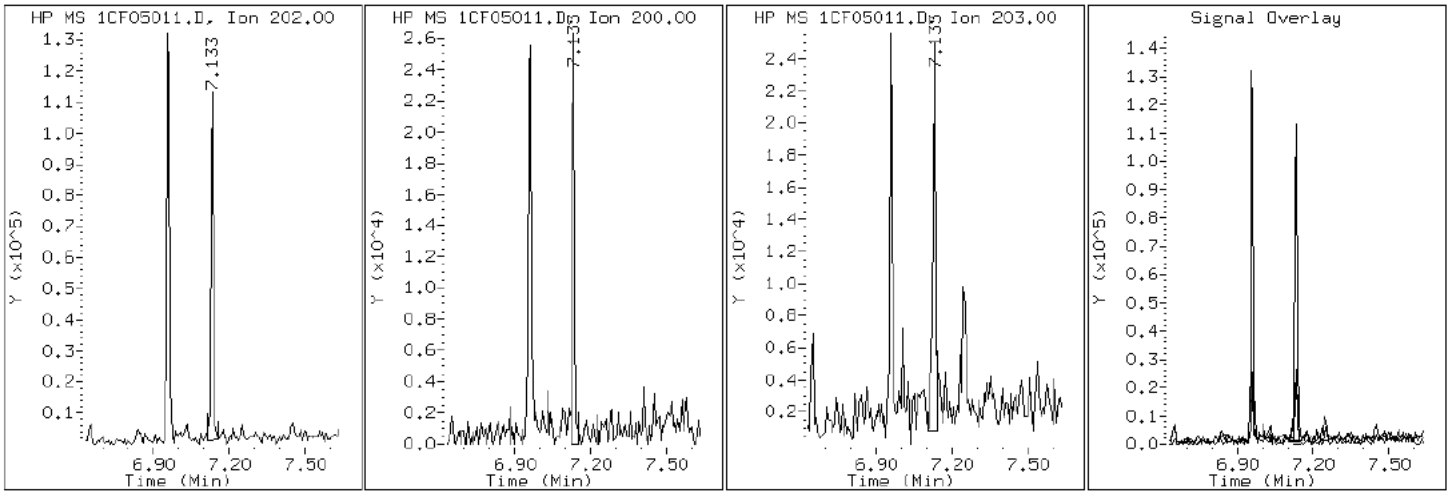
Data File: 1CF05011.D

Date: 05-JUN-2013 13:52

Client ID: CV1164B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-30-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF05011.D
Inj. Date and Time: 05-JUN-2013 13:52
Instrument ID: BSMC5973.i
Client ID: CV1164B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

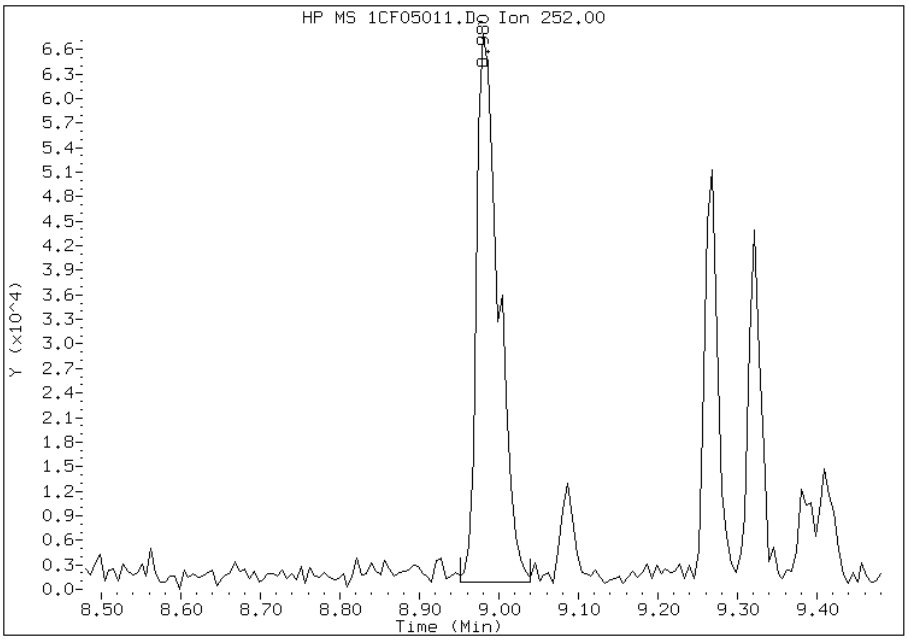
Processing Integration Results

RT: 8.98

Response: 129279

Amount: 2

Conc: 478



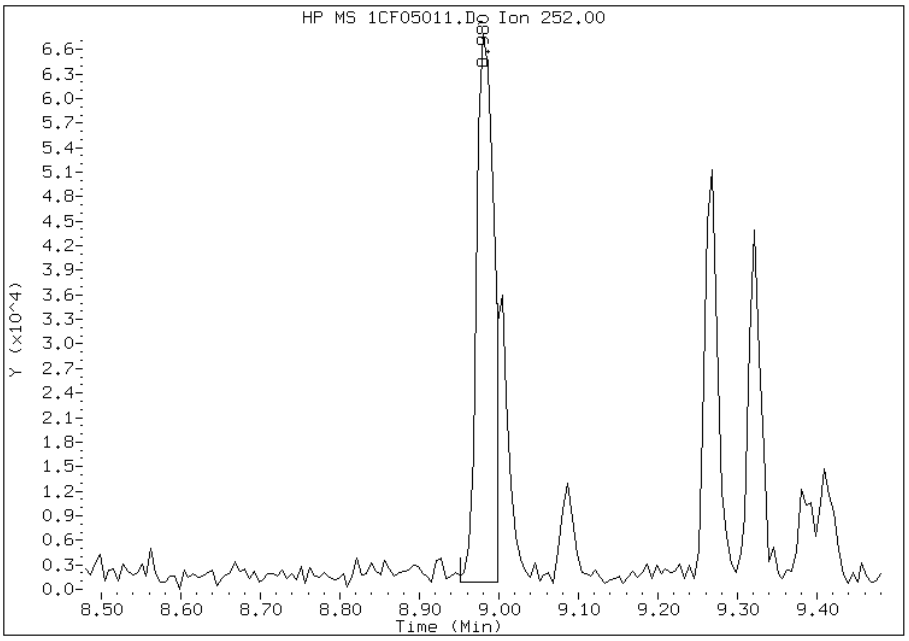
Manual Integration Results

RT: 8.98

Response: 101196

Amount: 1

Conc: 374



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:59
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF05011.D
Inj. Date and Time: 05-JUN-2013 13:52
Instrument ID: BSMC5973.i
Client ID: CV1164B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

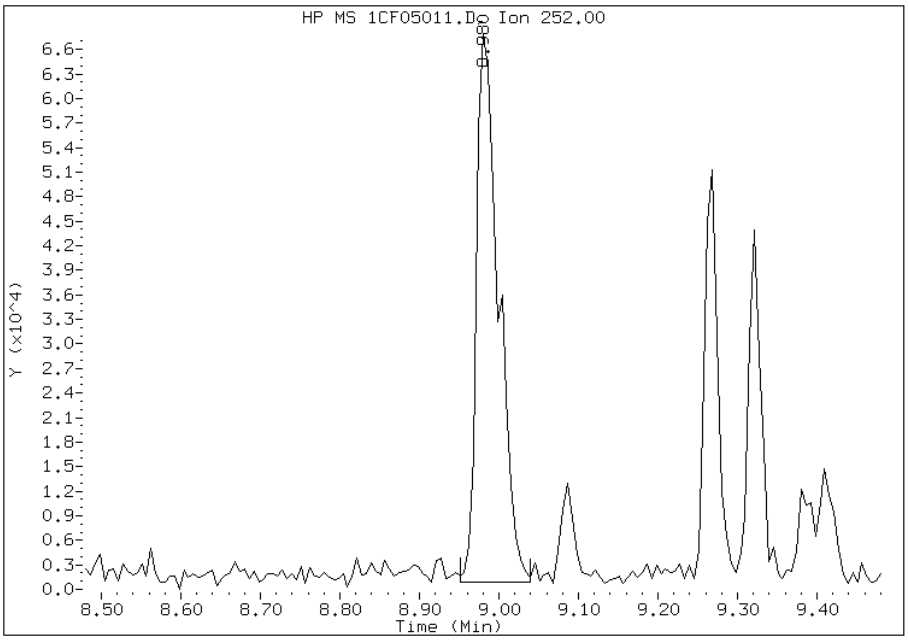
Processing Integration Results

RT: 8.98

Response: 129220

Amount: 1

Conc: 428



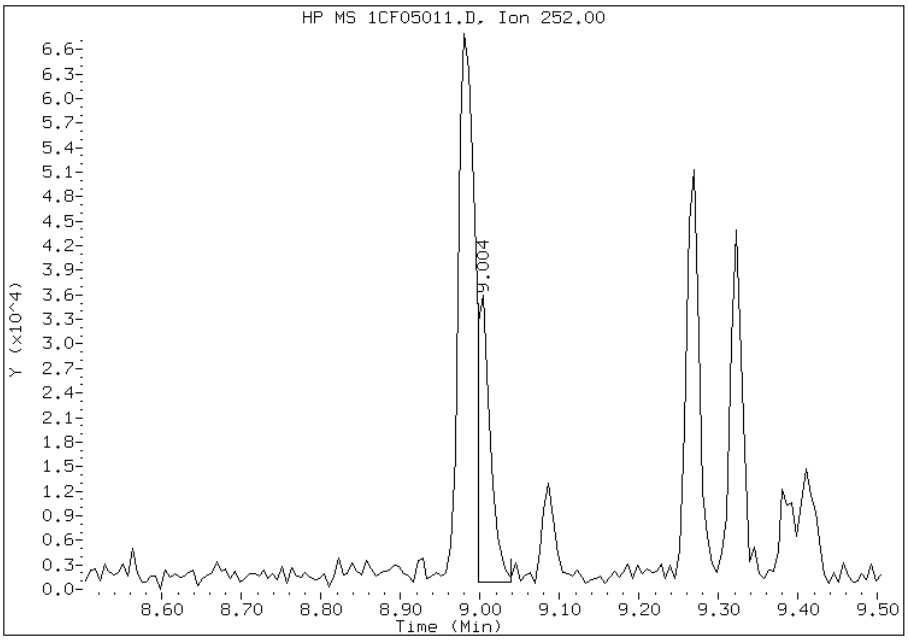
Manual Integration Results

RT: 9.00

Response: 39150

Amount: 0

Conc: 130



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF05011.D
Inj. Date and Time: 05-JUN-2013 13:52
Instrument ID: BSMC5973.i
Client ID: CV1164B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/05/2013

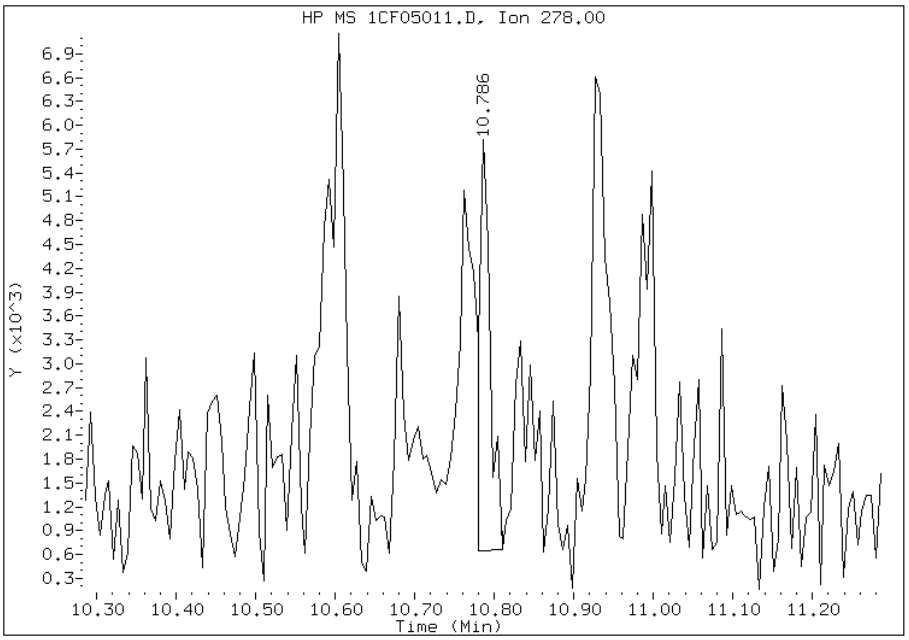
Processing Integration Results

RT: 10.79

Response: 4964

Amount: 0

Conc: 21



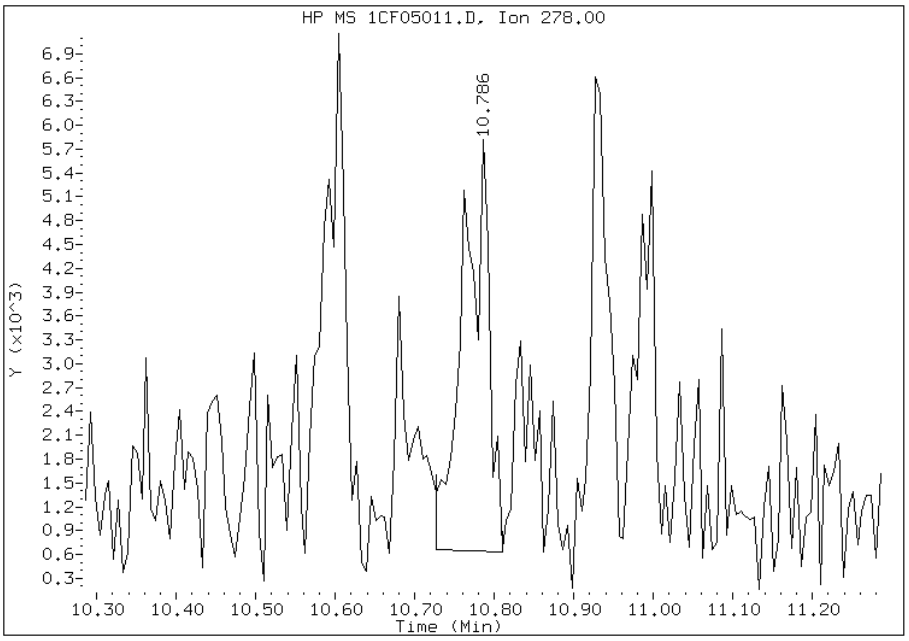
Manual Integration Results

RT: 10.79

Response: 11976

Amount: 0

Conc: 51



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 16:00
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF05011.D
Inj. Date and Time: 05-JUN-2013 13:52
Instrument ID: BSMC5973.i
Client ID: CV1164B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

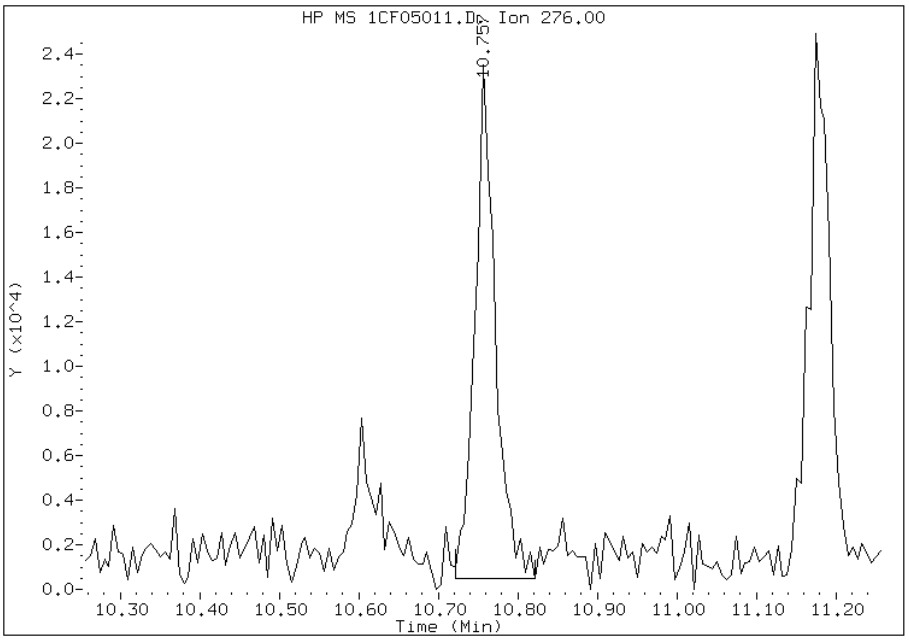
Processing Integration Results

RT: 10.76

Response: 41263

Amount: 1

Conc: 189



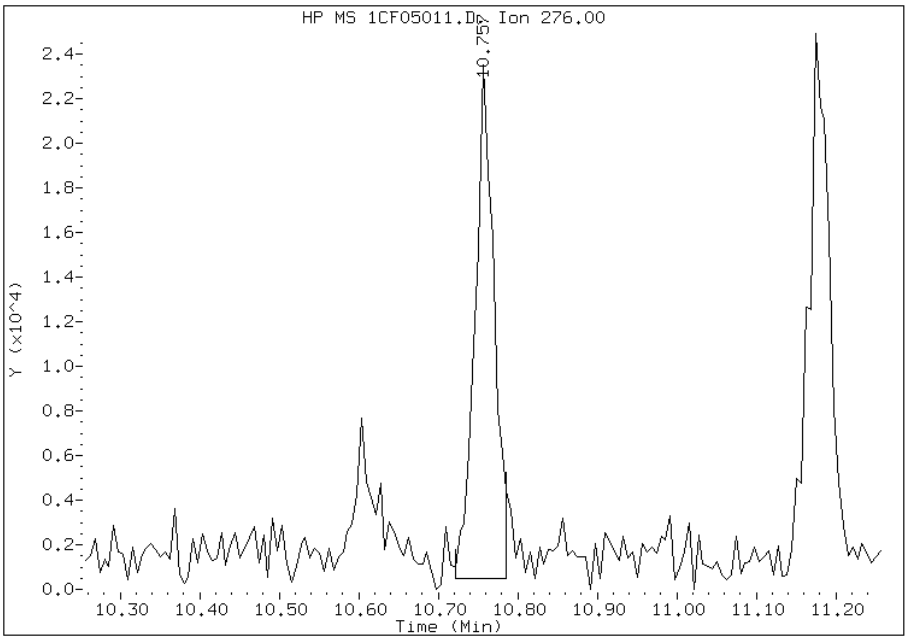
Manual Integration Results

RT: 10.76

Response: 38717

Amount: 1

Conc: 180



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 16:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV1164C-CS | Lab Sample ID: 680-90723-31

Matrix: Solid | Lab File ID: 1CF05012.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 13:55

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.07(g) | Date Analyzed: 06/05/2013 14:11

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

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

% Moisture: 17.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	96
208-96-8	Acenaphthylene	43	J	190	24
120-12-7	Anthracene	70		40	20
56-55-3	Benzo[a]anthracene	430		38	19
50-32-8	Benzo[a]pyrene	670		50	25
205-99-2	Benzo[b]fluoranthene	1100		59	29
191-24-2	Benzo[g,h,i]perylene	800		96	21
207-08-9	Benzo[k]fluoranthene	300		38	17
218-01-9	Chrysene	590		43	22
53-70-3	Dibenz(a,h)anthracene	230		96	20
206-44-0	Fluoranthene	490		96	19
86-73-7	Fluorene	56	J	96	20
193-39-5	Indeno[1,2,3-cd]pyrene	630		96	34
90-12-0	1-Methylnaphthalene	210		190	21
91-57-6	2-Methylnaphthalene	260		190	34
91-20-3	Naphthalene	140	J	190	21
85-01-8	Phenanthrene	400		38	19
129-00-0	Pyrene	460		96	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05012.D
Lab Smp Id: 680-90723-A-31-A Client Smp ID: CV1164C-CS
Inj Date : 05-JUN-2013 14:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-31-a
Misc Info : 680-90723-A-31-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 12
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	15.070	Weight Extracted
M	16.998	% 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	4.039	4.039	(1.000)	2377676	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1660902	40.0000	
* 10 Phenanthrene-d10	188	6.092	6.092	(1.000)	2981558	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.042)	87598	1.88606	603.1309
* 18 Chrysene-d12	240	8.057	8.056	(1.000)	3311734	40.0000	
* 23 Perylene-d12	264	9.386	9.392	(1.000)	3151259	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	30356	0.45241	144.6750
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	30055	0.80756	258.2447
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	24349	0.66497	212.6466
5 Acenaphthylene	152	5.039	5.039	(0.983)	8557	0.13439	42.9765
9 Fluorene	166	5.474	5.468	(1.068)	8937	0.17542	56.0957
11 Phenanthrene	178	6.110	6.110	(1.003)	108837	1.23555	395.1098
12 Anthracene	178	6.145	6.145	(1.009)	17773	0.21779	69.6443
13 Carbazole	167	6.245	6.251	(1.025)	17198	0.34047	108.8778

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.962	6.962	(1.143)	139290	1.54702	494.7118
16 Pyrene	202	7.133	7.133	(0.885)	129905	1.45264	464.5298
17 Benzo(a)anthracene	228	8.045	8.051	(0.999)	124059	1.35852	434.4326
19 Chrysene	228	8.074	8.074	(1.002)	168226	1.82969	585.1075
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	275080	3.55286	1136.1502
21 Benzo(k)fluoranthene	252	9.004	9.009	(0.959)	80367	0.92936	297.1958(QM)
22 Benzo(a)pyrene	252	9.321	9.327	(0.993)	157804	2.09371	669.5346
24 Indeno(1,2,3-cd)pyrene	276	10.762	10.768	(1.147)	153193	1.97606	631.9116(M)
25 Dibenzo(a,h)anthracene	278	10.780	10.786	(1.149)	48935	0.72754	232.6569
26 Benzo(g,h,i)perylene	276	11.180	11.186	(1.191)	183322	2.50410	800.7727

QC Flag Legend

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

Data File: 1CF05012.D

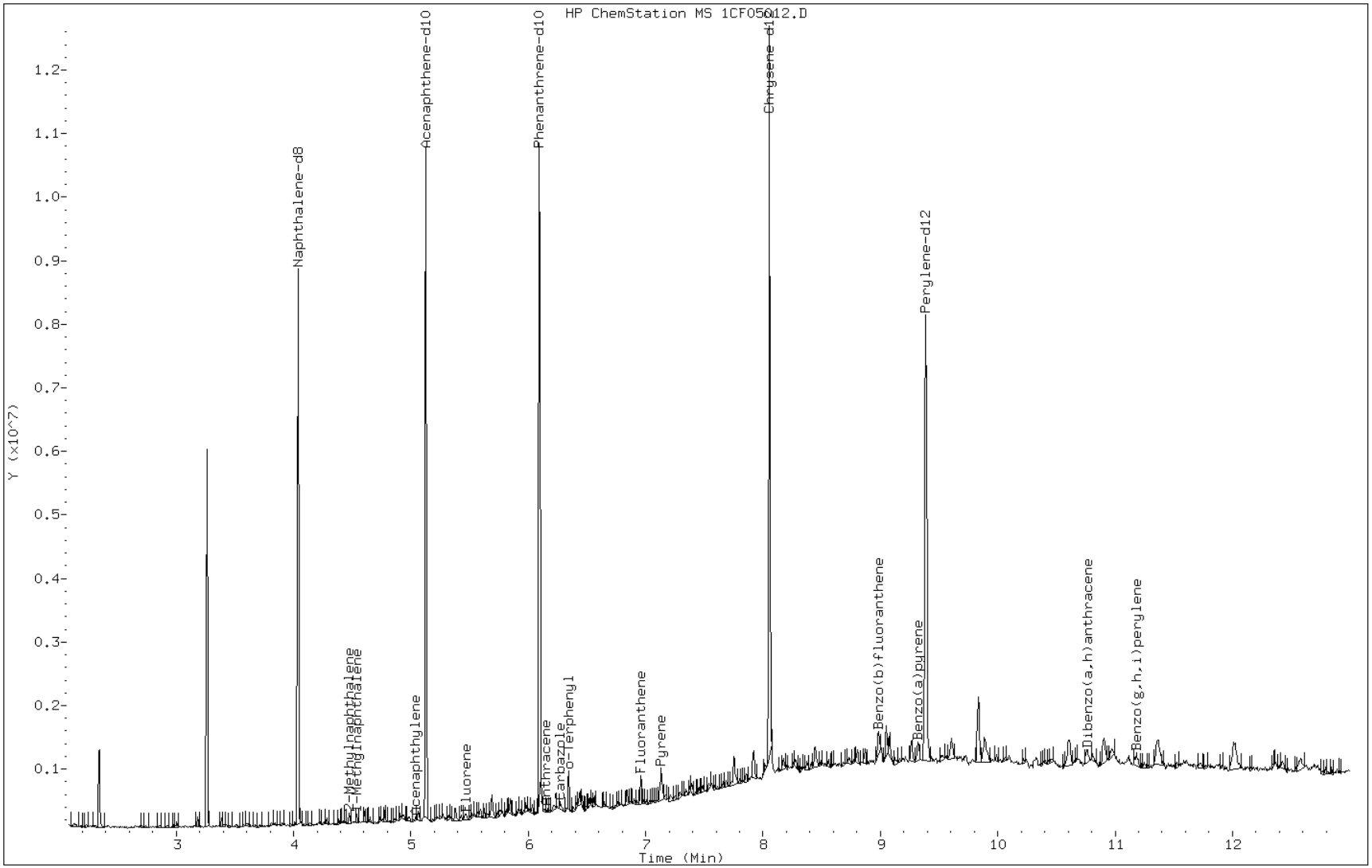
Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS

Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a

Operator: SCC



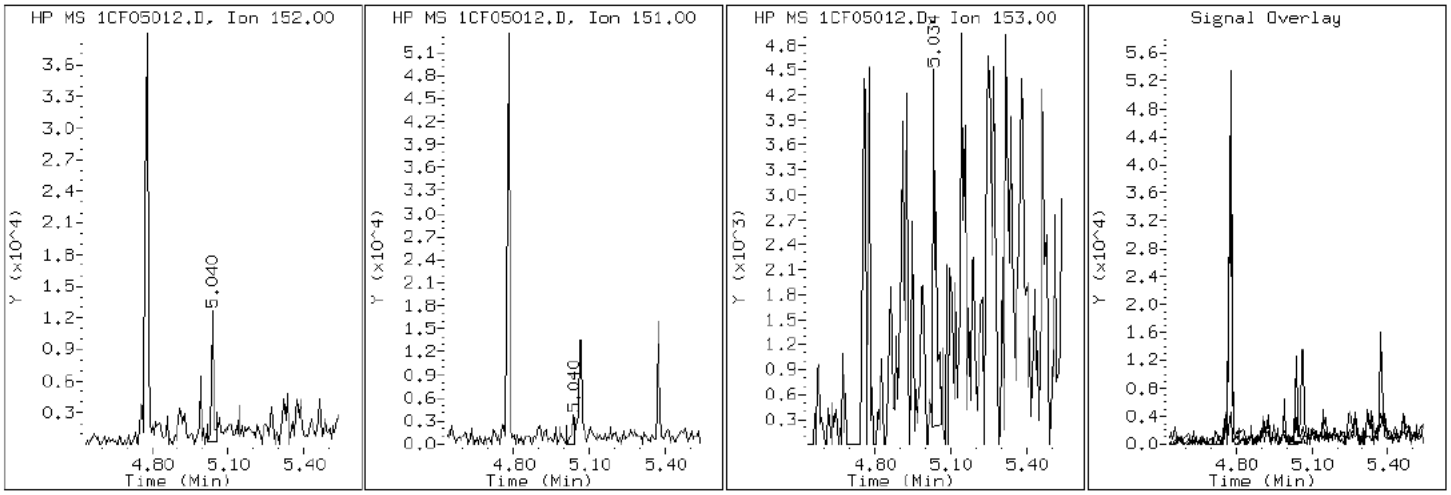
Data File: 1CF05012.D

Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a Operator: SCC

5 Acenaphthylene



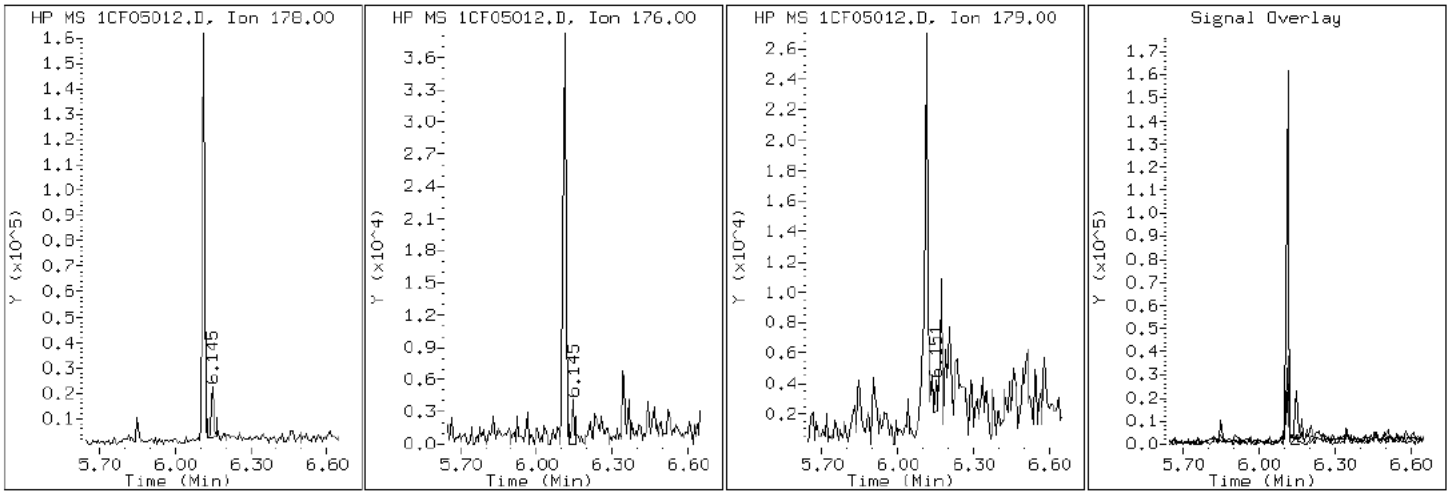
Data File: 1CF05012.D

Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a Operator: SCC

12 Anthracene



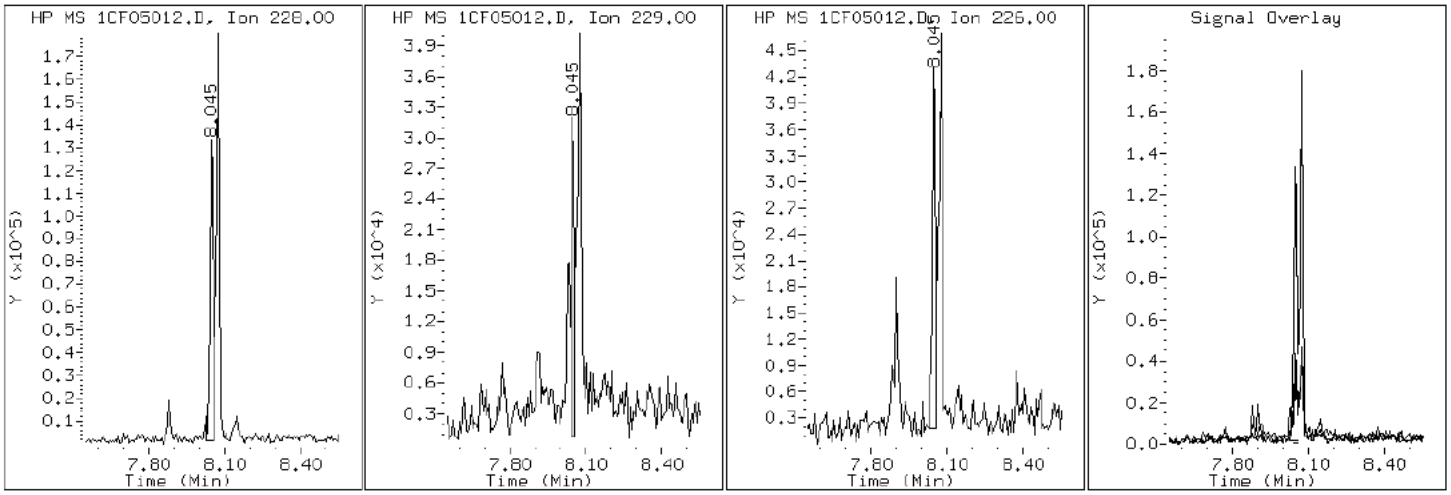
Data File: 1CF05012.D

Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a Operator: SCC

17 Benzo(a)anthracene



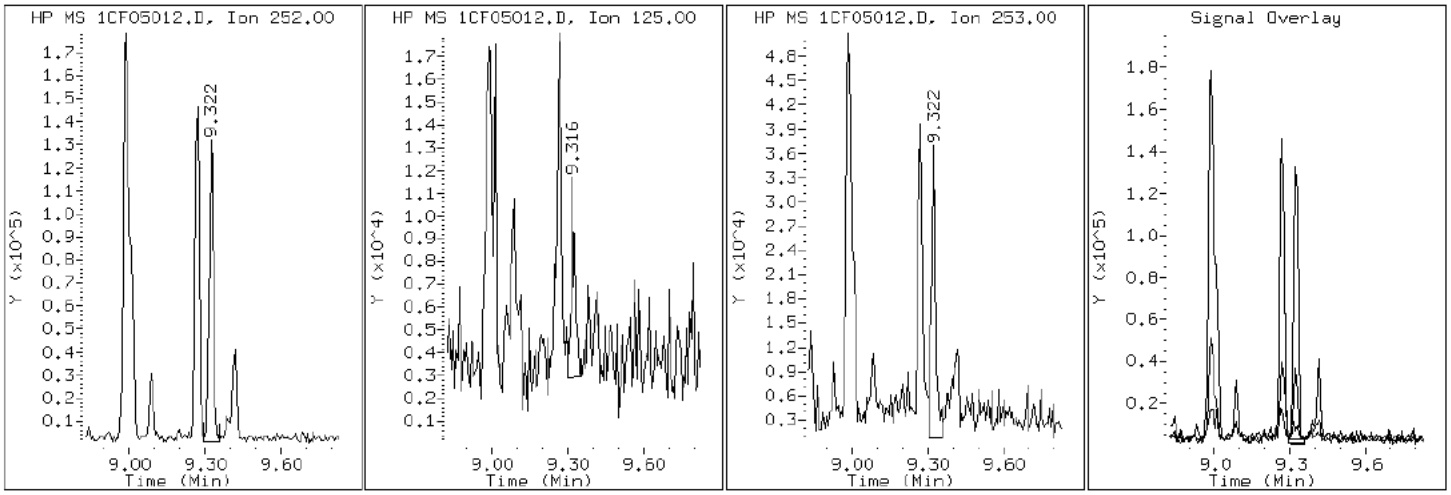
Data File: 1CF05012.D

Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a Operator: SCC

22 Benzo(a)pyrene



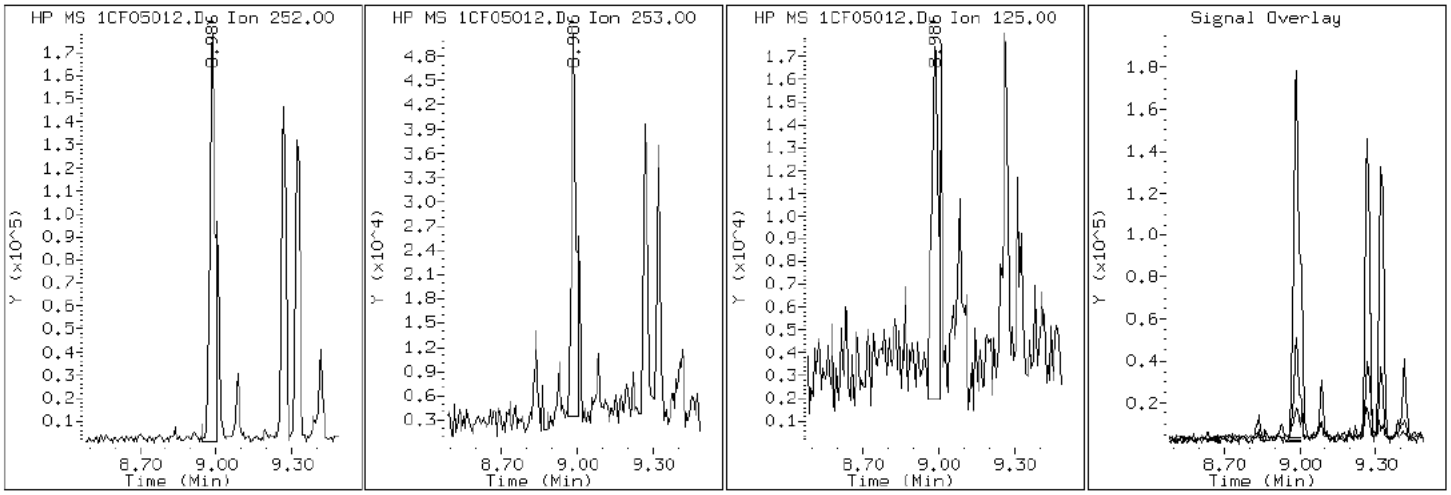
Data File: 1CF05012.D

Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a Operator: SCC

20 Benzo(b)fluoranthene



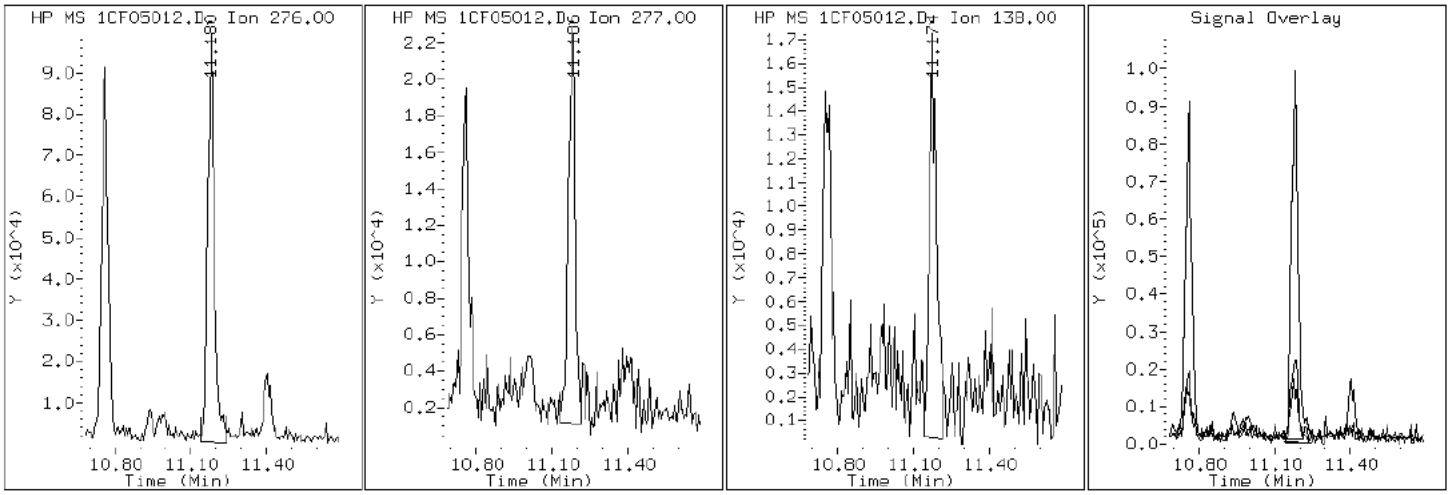
Data File: 1CF05012.D

Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a Operator: SCC

26 Benzo(g,h,i)perylene



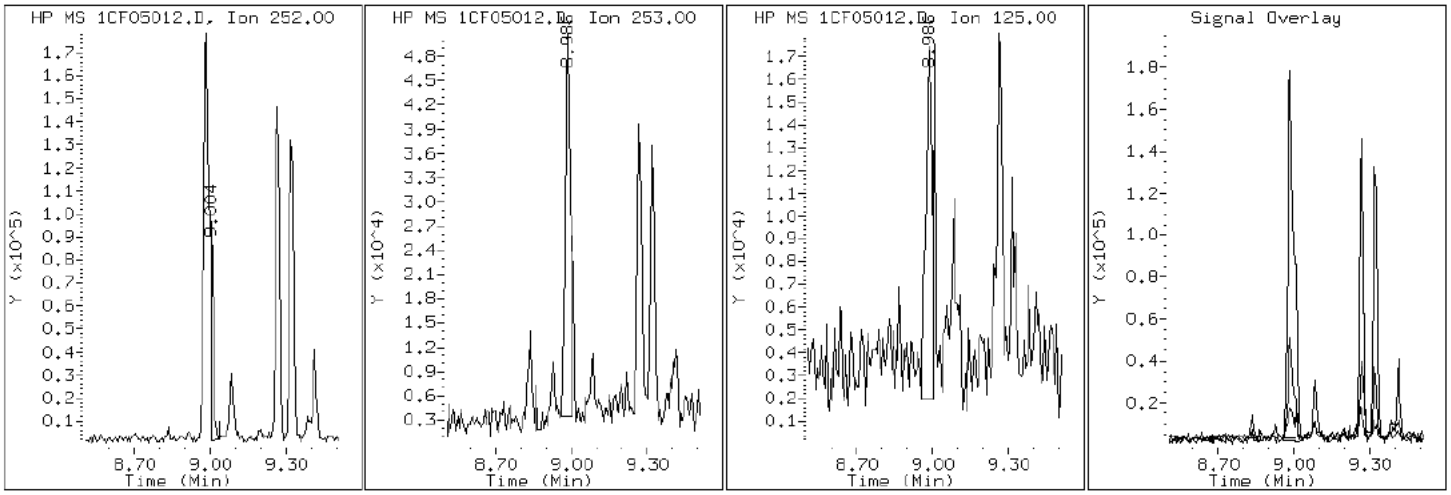
Data File: 1CF05012.D

Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a Operator: SCC

21 Benzo(k)fluoranthene



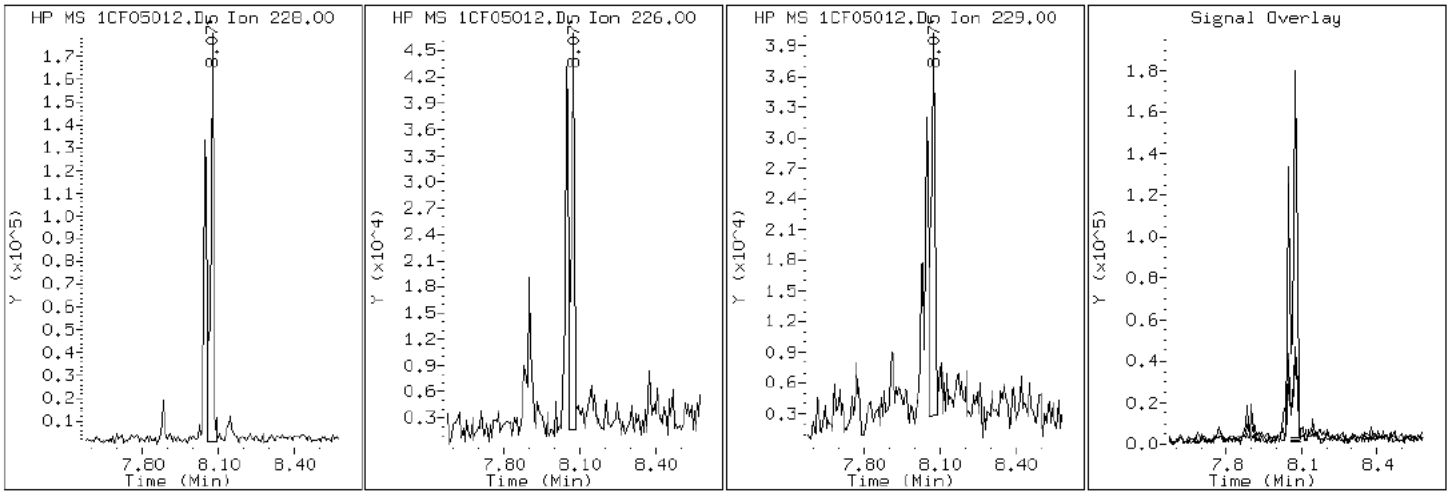
Data File: 1CF05012.D

Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a Operator: SCC

19 Chrysene



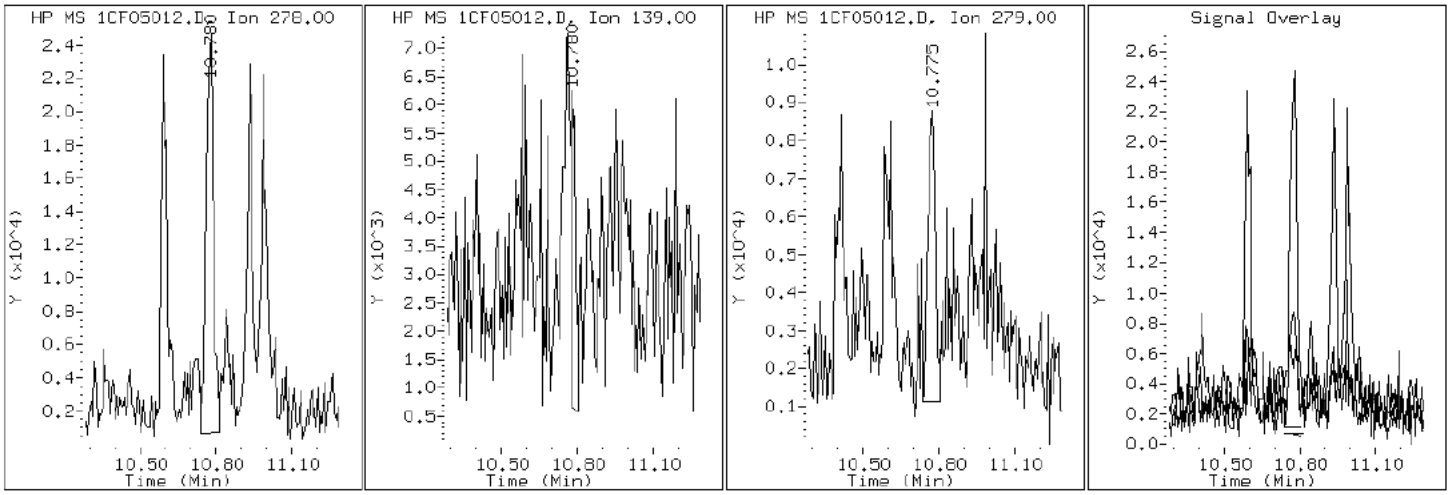
Data File: 1CF05012.D

Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a Operator: SCC

25 Dibenzo(a,h)anthracene



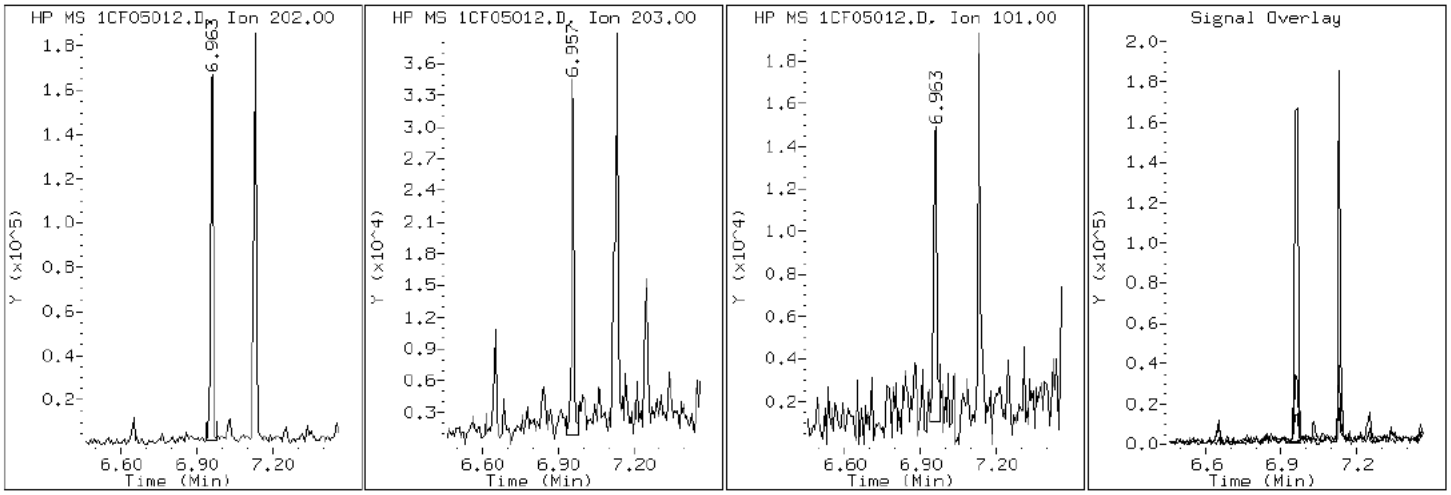
Data File: 1CF05012.D

Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a Operator: SCC

15 Fluoranthene



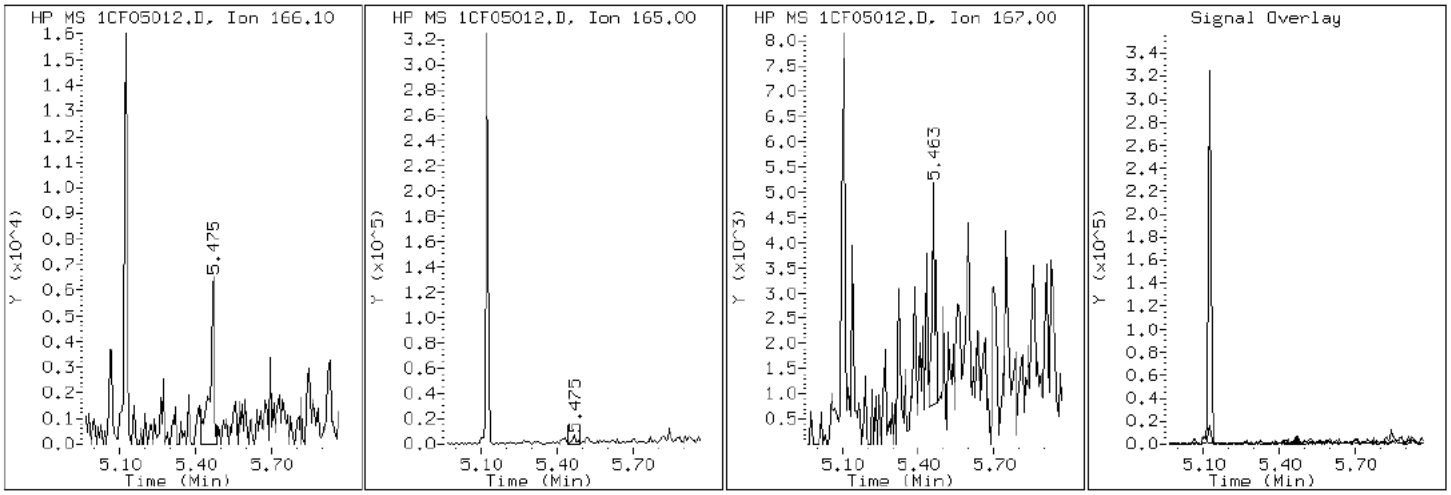
Data File: 1CF05012.D

Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a Operator: SCC

9 Fluorene



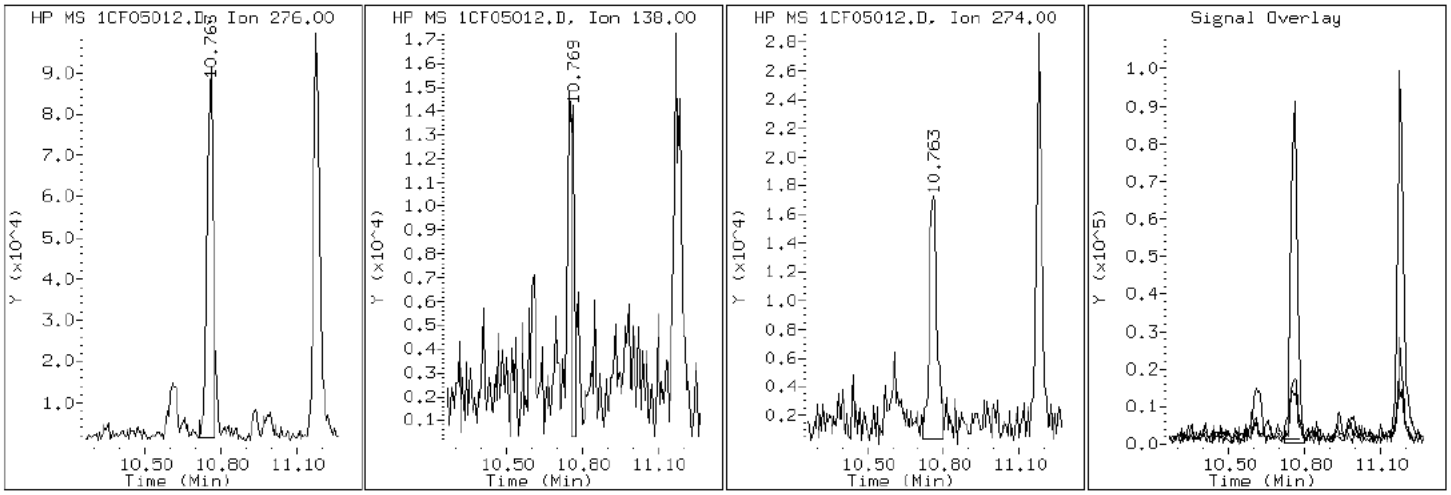
Data File: 1CF05012.D

Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a Operator: SCC

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



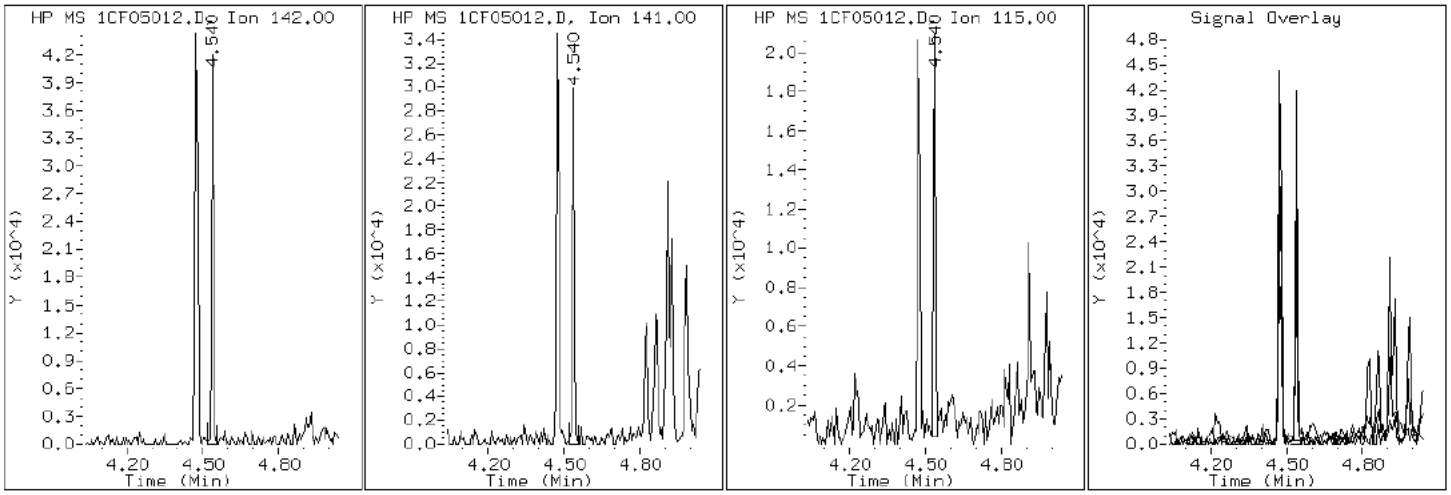
Data File: 1CF05012.D

Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a Operator: SCC

4 1-Methylnaphthalene



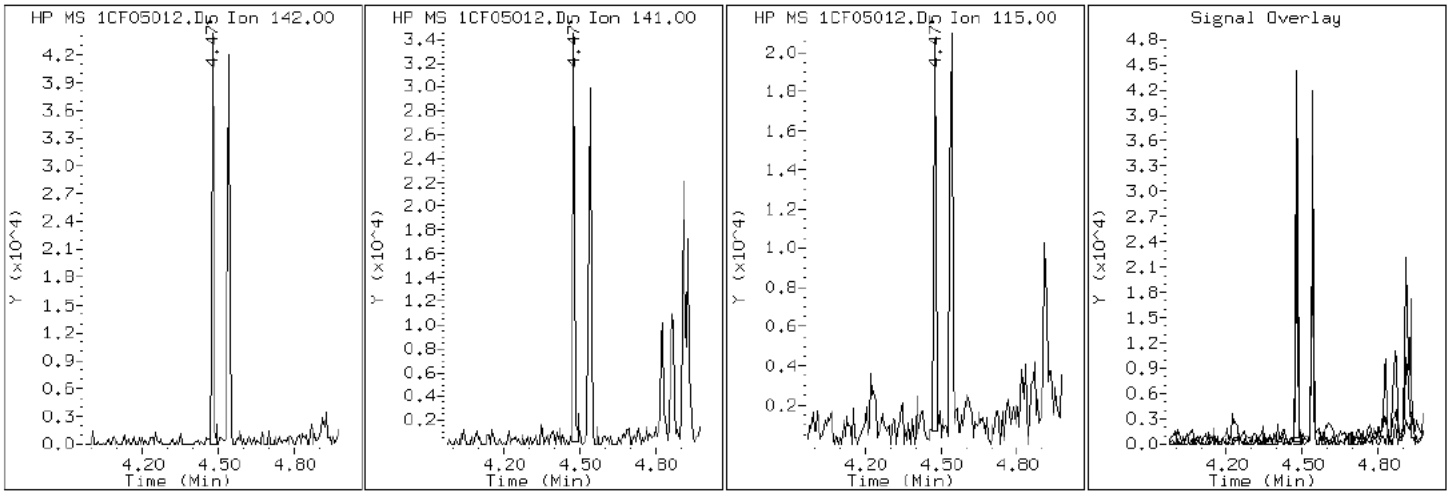
Data File: 1CF05012.D

Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a Operator: SCC

3 2-Methylnaphthalene



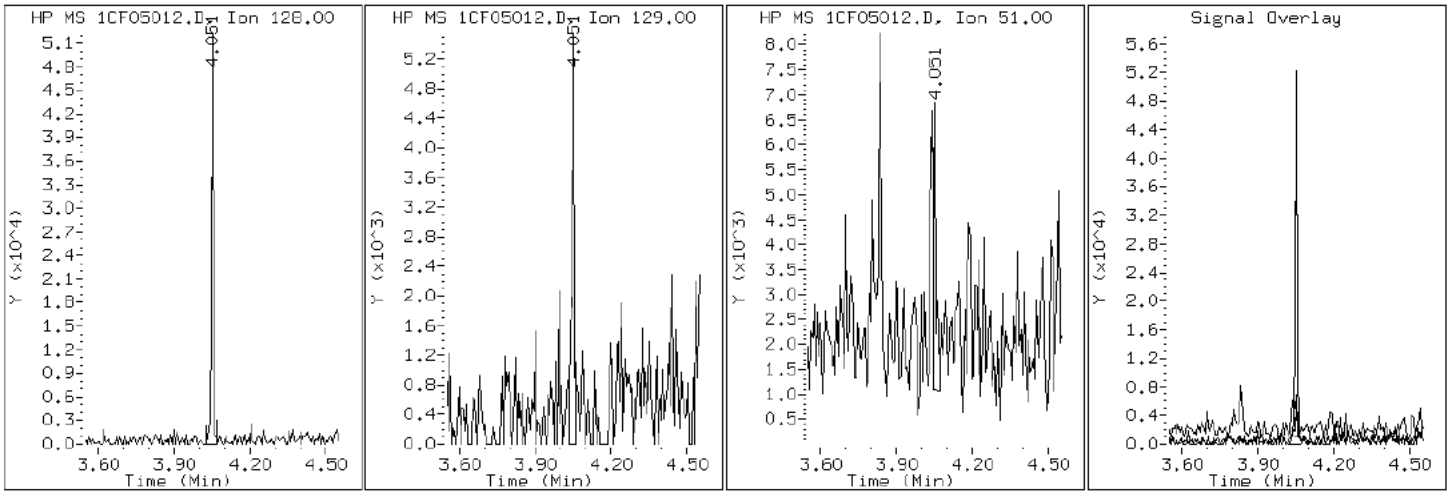
Data File: 1CF05012.D

Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a Operator: SCC

2 Naphthalene



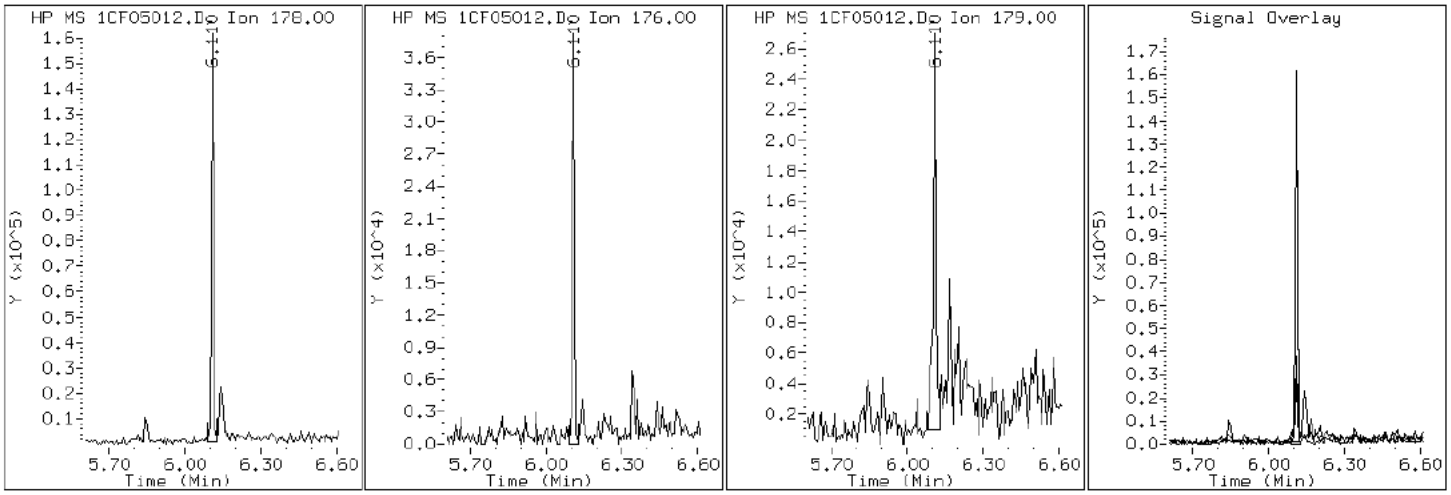
Data File: 1CF05012.D

Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a Operator: SCC

11 Phenanthrene



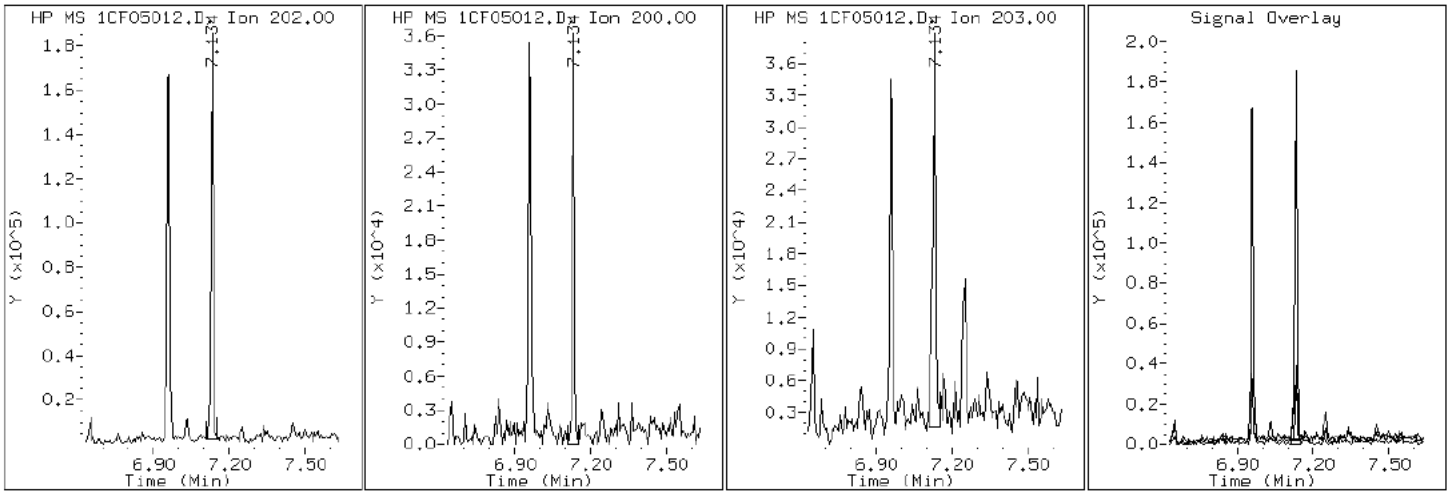
Data File: 1CF05012.D

Date: 05-JUN-2013 14:11

Client ID: CV1164C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-31-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF05012.D
Inj. Date and Time: 05-JUN-2013 14:11
Instrument ID: BSMC5973.i
Client ID: CV1164C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

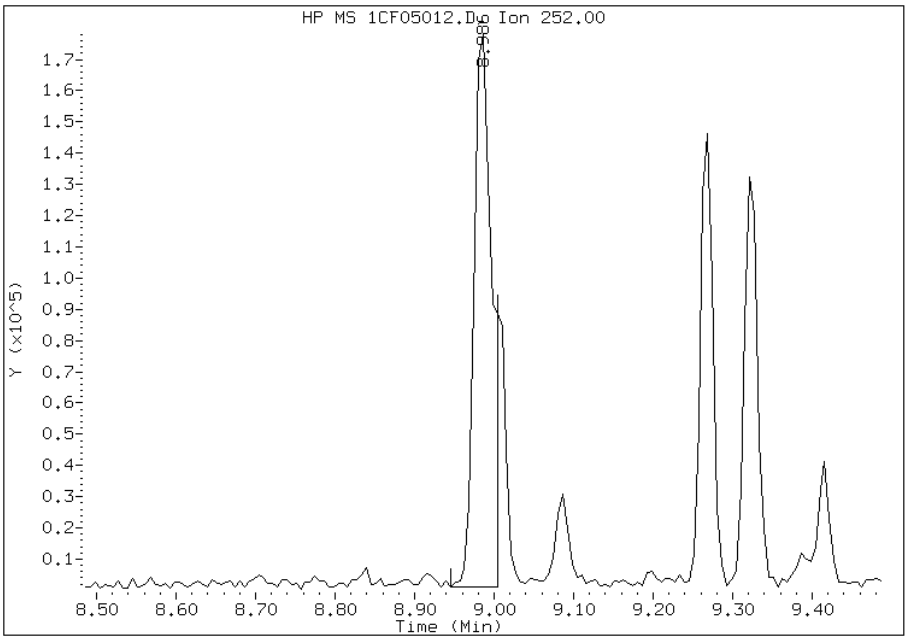
Processing Integration Results

RT: 8.99

Response: 275080

Amount: 3

Conc: 1017



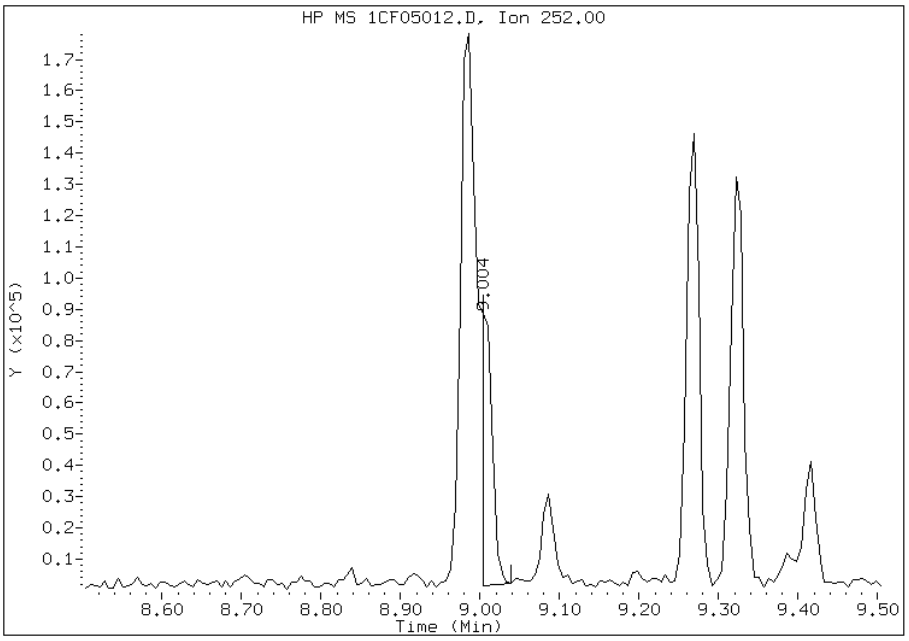
Manual Integration Results

RT: 9.00

Response: 80367

Amount: 1

Conc: 297



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 16:00
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF05012.D
Inj. Date and Time: 05-JUN-2013 14:11
Instrument ID: BSMC5973.i
Client ID: CV1164C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

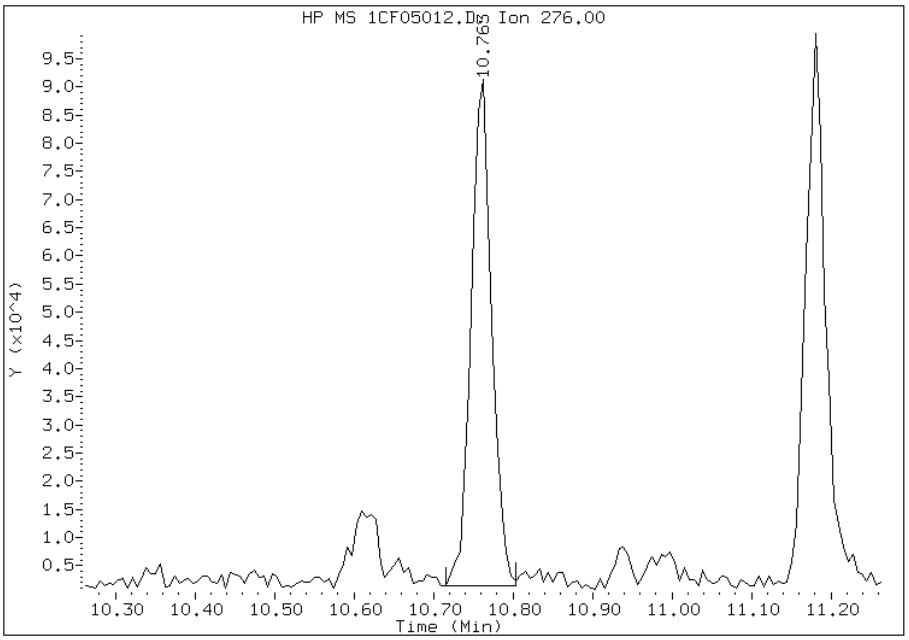
Processing Integration Results

RT: 10.76

Response: 160637

Amount: 2

Conc: 660



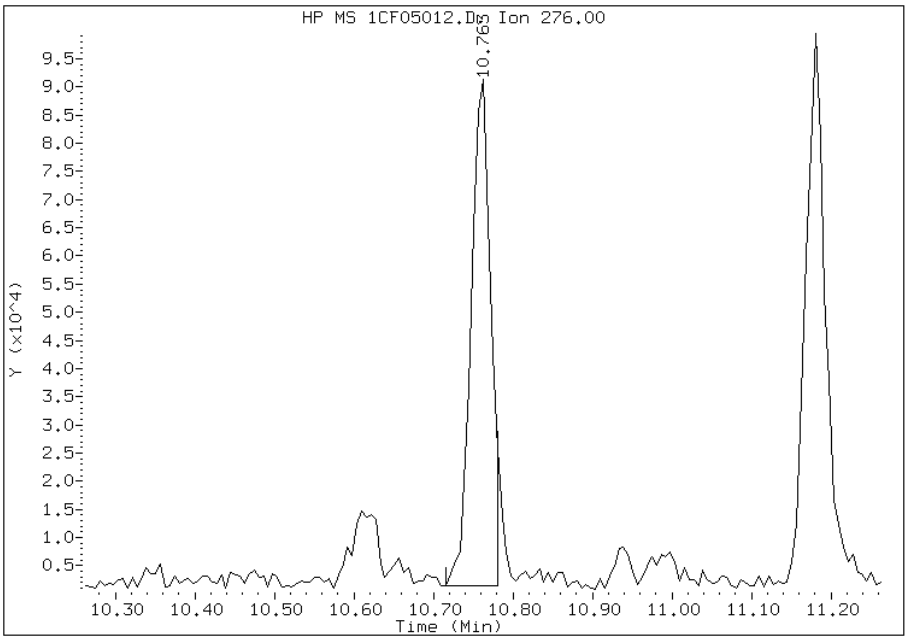
Manual Integration Results

RT: 10.76

Response: 153193

Amount: 2

Conc: 632



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 16:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV1301A-CS | Lab Sample ID: 680-90723-32

Matrix: Solid | Lab File ID: 1CF05030.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 13:00

Extract. Method: 3546 | Date Extracted: 06/03/2013 13:04

Sample wt/vol: 15.24(g) | Date Analyzed: 06/05/2013 20:44

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

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

% Moisture: 13.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	28	J	46	5.7
120-12-7	Anthracene	33		9.6	4.8
56-55-3	Benzo[a]anthracene	140		9.1	4.5
50-32-8	Benzo[a]pyrene	130		12	5.9
205-99-2	Benzo[b]fluoranthene	210		14	7.0
191-24-2	Benzo[g,h,i]perylene	83		23	5.0
207-08-9	Benzo[k]fluoranthene	68		9.1	4.1
218-01-9	Chrysene	150		10	5.1
53-70-3	Dibenz(a,h)anthracene	34		23	4.7
206-44-0	Fluoranthene	310		23	4.6
86-73-7	Fluorene	25		23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	76		23	8.1
90-12-0	1-Methylnaphthalene	34	J	46	5.0
91-57-6	2-Methylnaphthalene	38	J	46	8.1
91-20-3	Naphthalene	25	J	46	5.0
85-01-8	Phenanthrene	260		9.1	4.5
129-00-0	Pyrene	240		23	4.2

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05030.D
Lab Smp Id: 680-90723-A-32-A Client Smp ID: CV1301A-CS
Inj Date : 05-JUN-2013 20:44
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-32-a
Misc Info : 680-90723-A-32-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 30
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	15.240	Weight Extracted
M	13.786	% 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	4.039	4.039	(1.000)	2092708	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1503312	40.0000	
* 10 Phenanthrene-d10	188	6.098	6.092	(1.000)	2756799	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.041)	250035	5.82236	443.1355
* 18 Chrysene-d12	240	8.057	8.056	(1.000)	3212681	40.0000	
* 23 Perylene-d12	264	9.392	9.392	(1.000)	3005224	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	19694	0.33348	25.3809
3 2-Methylnaphthalene	142	4.480	4.474	(1.109)	16202	0.49462	37.6450
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	14427	0.44765	34.0704
5 Acenaphthylene	152	5.039	5.039	(0.983)	21488	0.37286	28.3779
9 Fluorene	166	5.474	5.468	(1.068)	15359	0.33307	25.3499
11 Phenanthrene	178	6.110	6.110	(1.002)	276018	3.38891	257.9271
12 Anthracene	178	6.145	6.145	(1.008)	32341	0.42861	32.6209
13 Carbazole	167	6.251	6.251	(1.025)	29678	0.53595	40.7911

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.962	6.962	(1.142)	339606	4.07933	310.4746
16 Pyrene	202	7.133	7.133	(0.885)	274788	3.16750	241.0757
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	157404	1.77681	135.2315
19 Chrysene	228	8.074	8.074	(1.002)	172703	1.93630	147.3704
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	205409	2.78193	211.7306
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.959)	73251	0.88824	67.6030
22 Benzo(a)pyrene	252	9.327	9.327	(0.993)	124190	1.74540	132.8413
24 Indeno(1,2,3-cd)pyrene	276	10.768	10.768	(1.147)	67701	1.00074	76.1652(M)
25 Dibenzo(a,h)anthracene	278	10.780	10.786	(1.148)	28915	0.45079	34.3089(M)
26 Benzo(g,h,i)perylene	276	11.186	11.186	(1.191)	76231	1.09188	83.1024

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CF05030.D

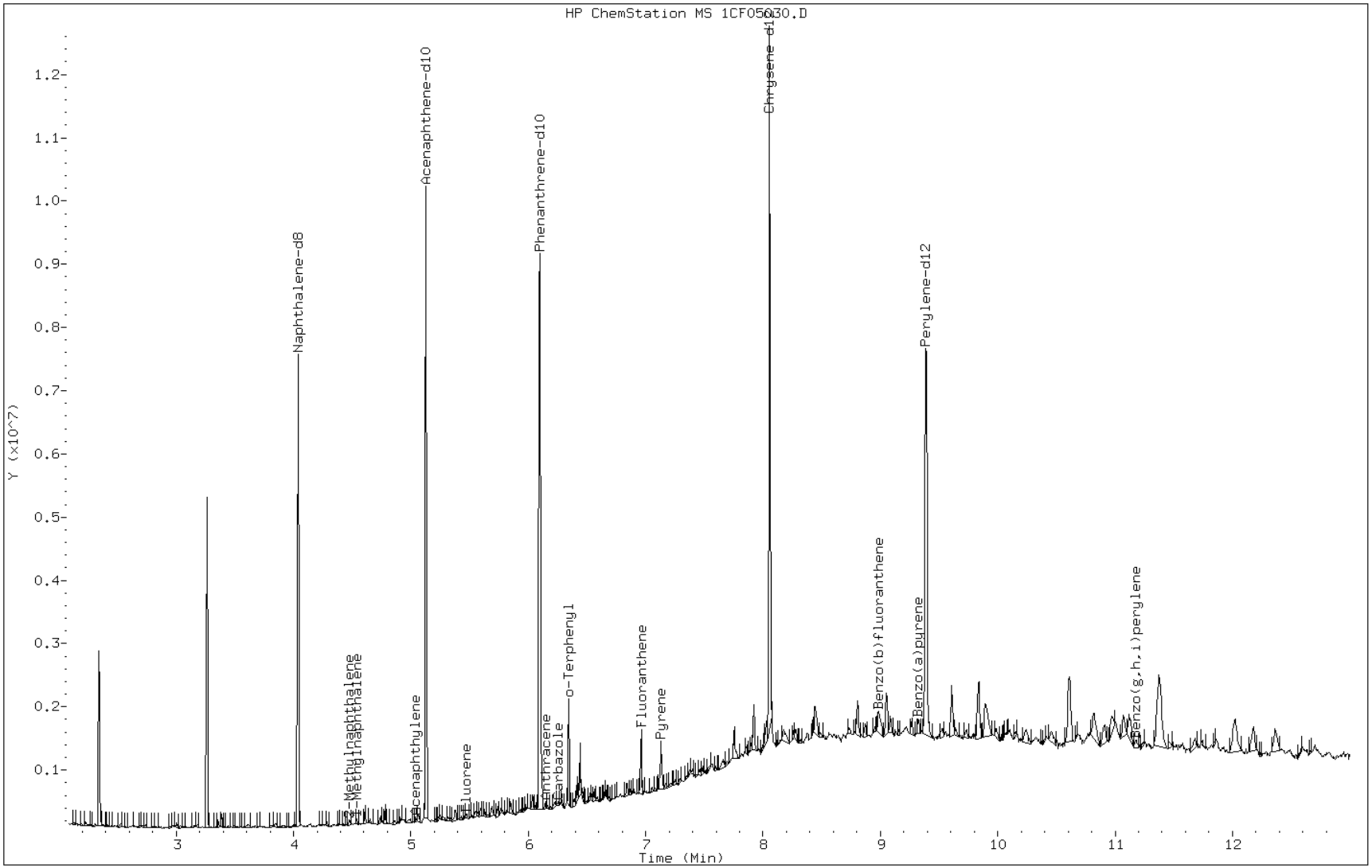
Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS

Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a

Operator: SCC



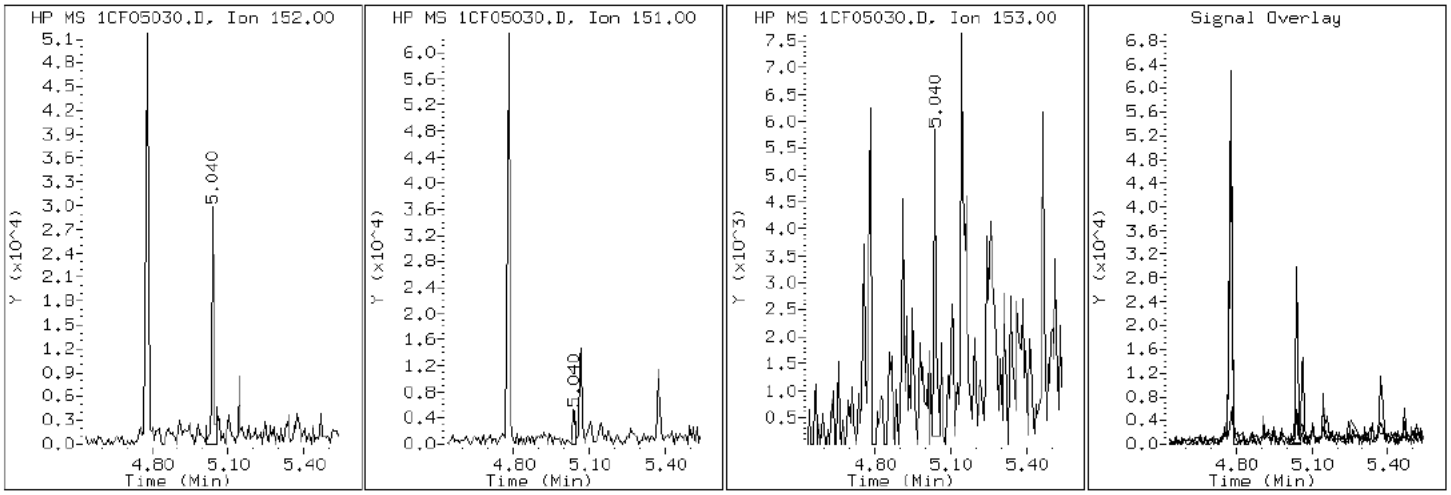
Data File: 1CF05030.D

Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a Operator: SCC

5 Acenaphthylene



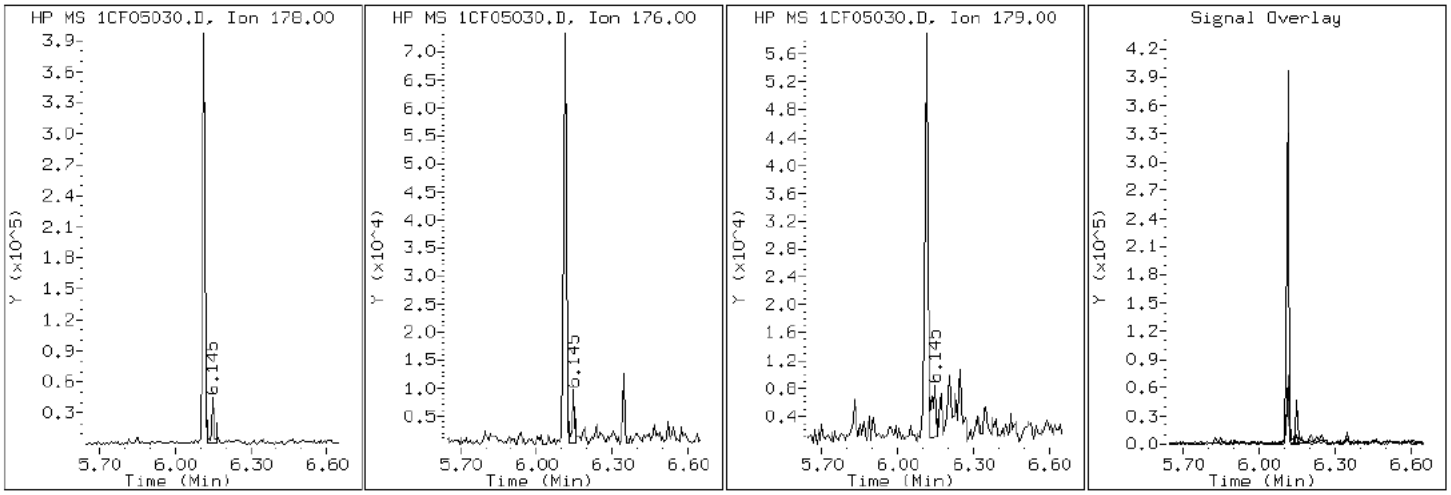
Data File: 1CF05030.D

Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a Operator: SCC

12 Anthracene



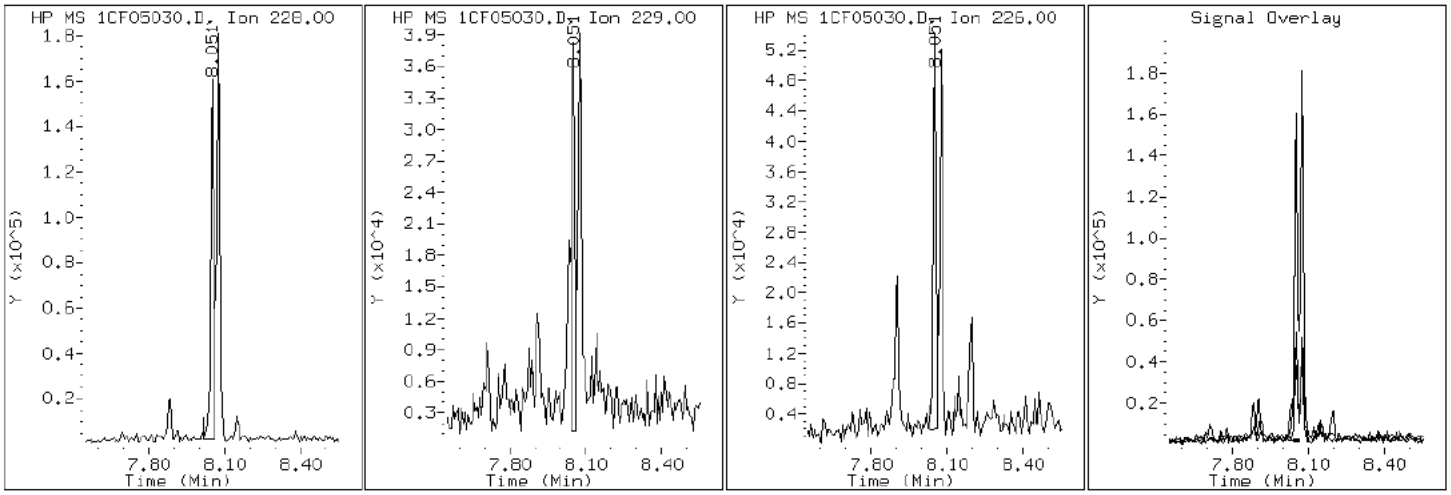
Data File: 1CF05030.D

Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a Operator: SCC

17 Benzo(a)anthracene



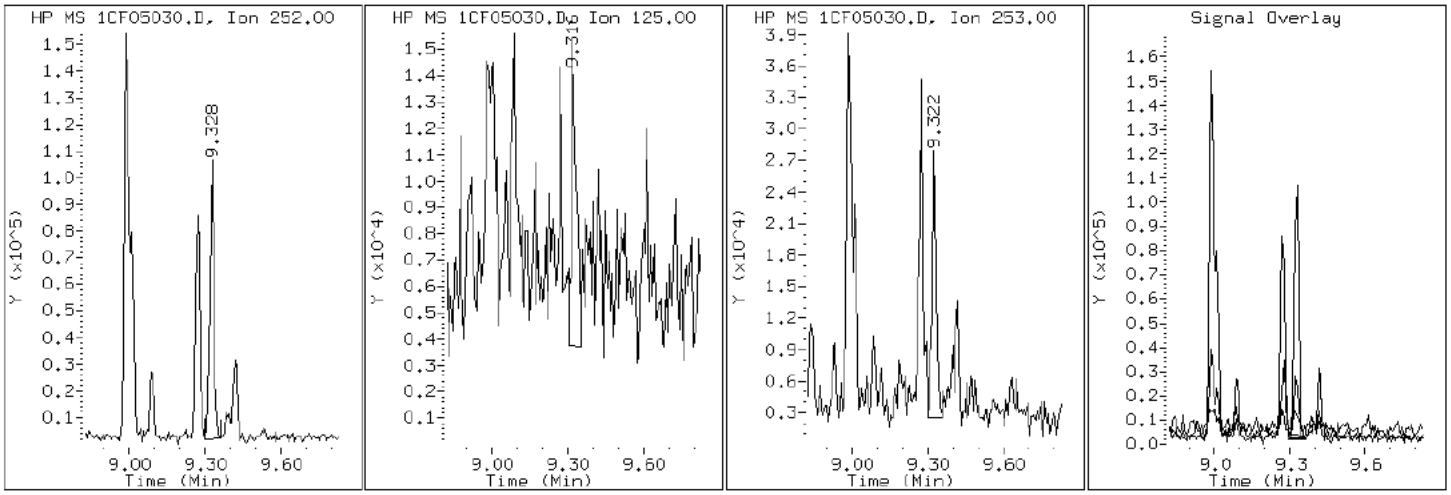
Data File: 1CF05030.D

Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a Operator: SCC

22 Benzo(a)pyrene



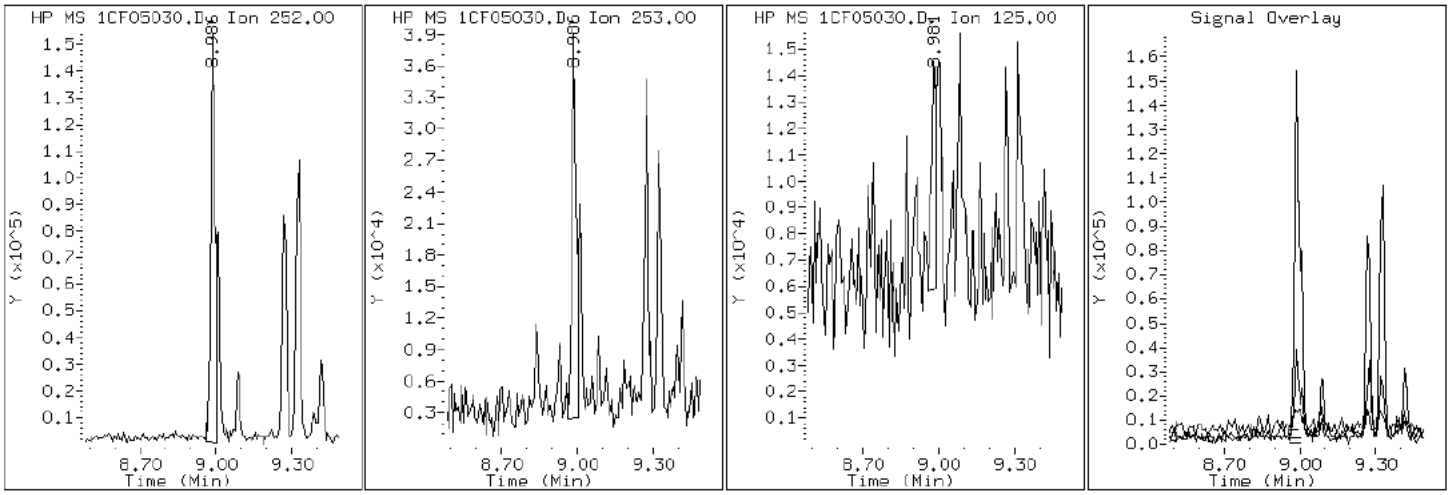
Data File: 1CF05030.D

Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a Operator: SCC

20 Benzo(b)fluoranthene



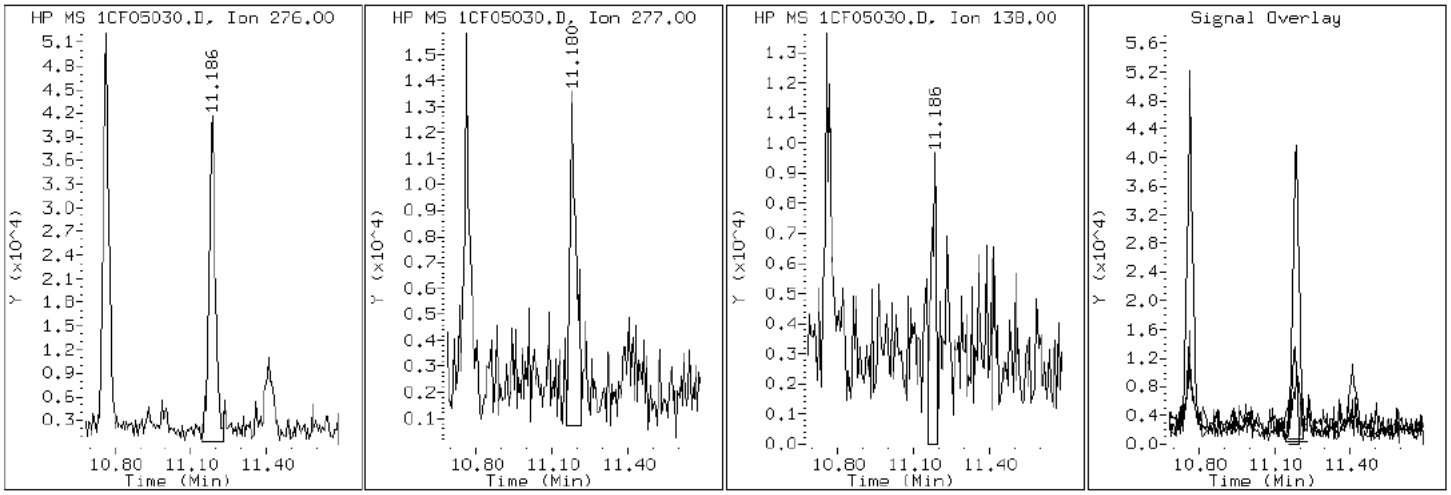
Data File: 1CF05030.D

Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a Operator: SCC

26 Benzo(g,h,i)perylene



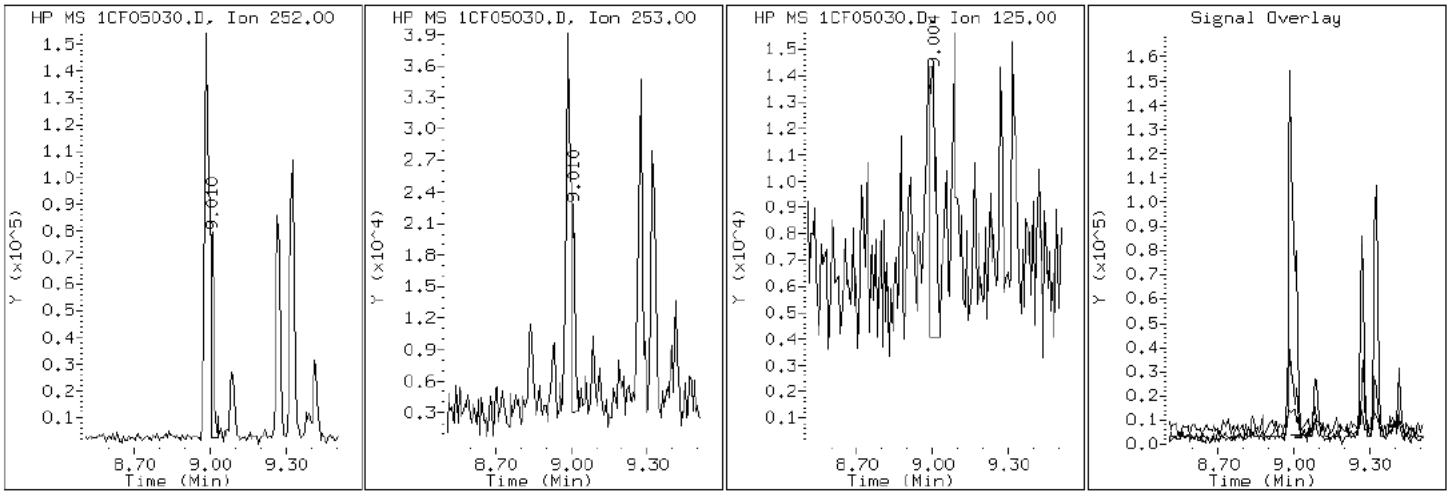
Data File: 1CF05030.D

Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a Operator: SCC

21 Benzo(k)fluoranthene



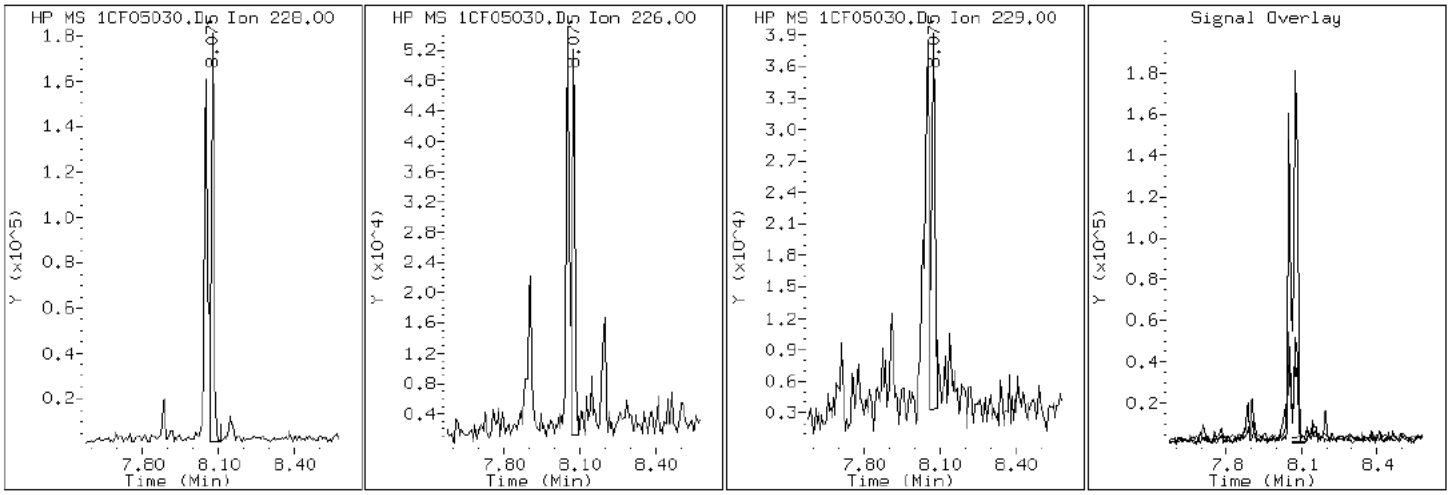
Data File: 1CF05030.D

Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a Operator: SCC

19 Chrysene



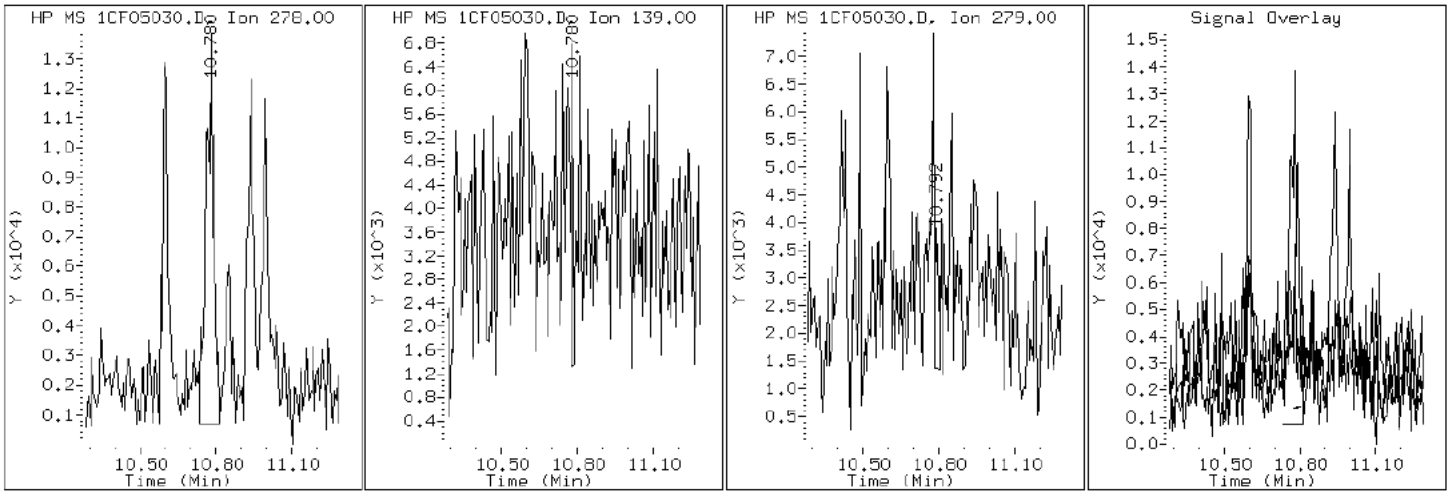
Data File: 1CF05030.D

Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a Operator: SCC

25 Dibenzo(a,h)anthracene



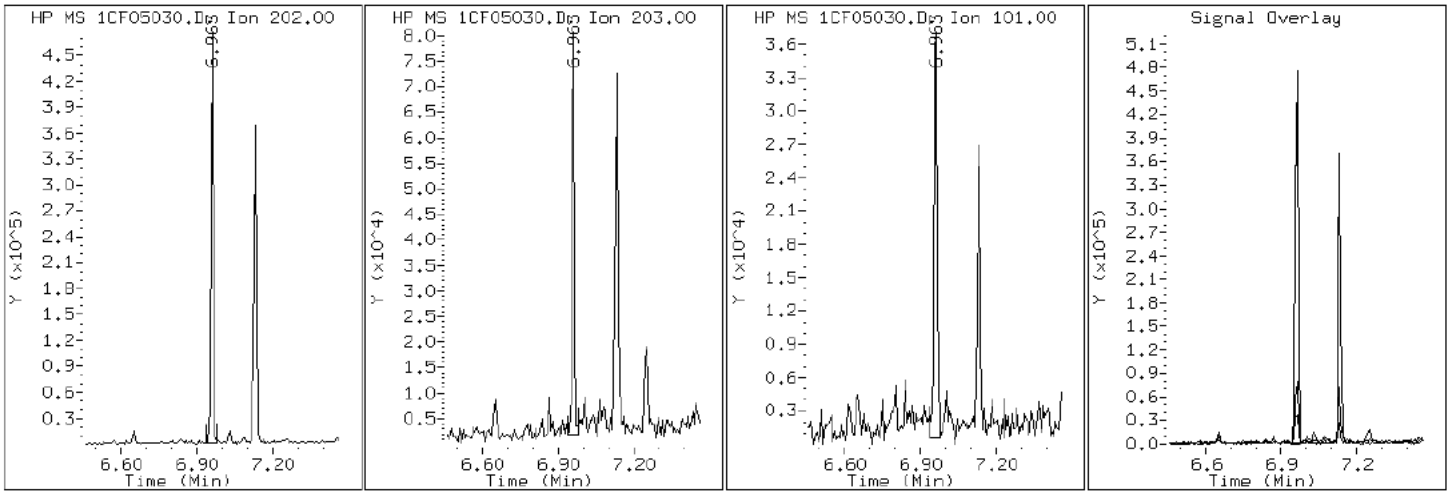
Data File: 1CF05030.D

Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a Operator: SCC

15 Fluoranthene



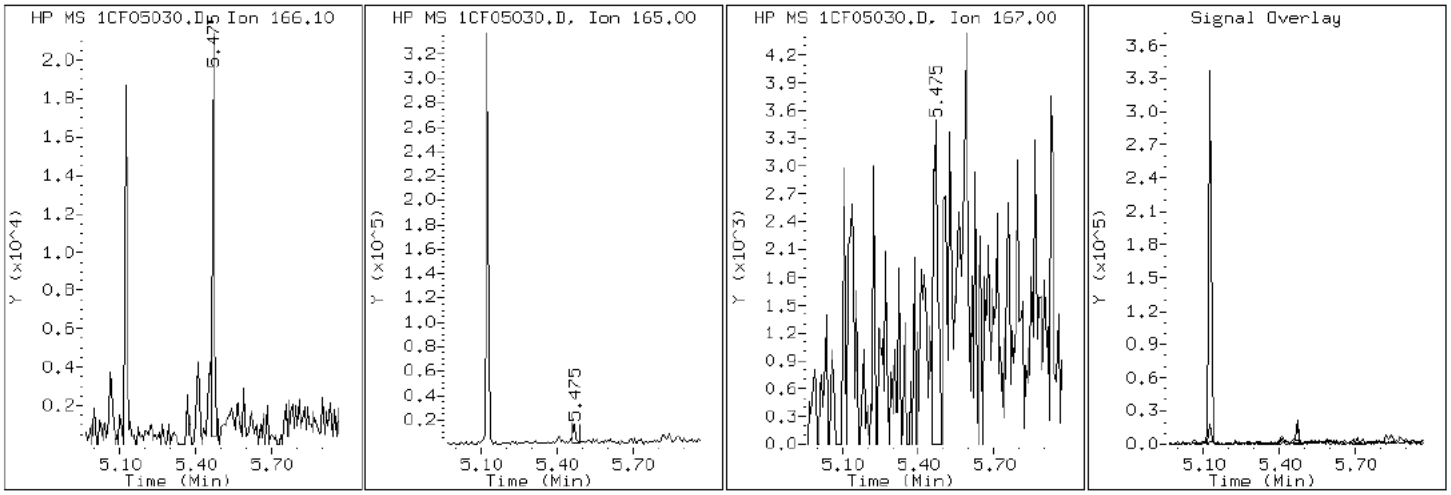
Data File: 1CF05030.D

Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a Operator: SCC

9 Fluorene



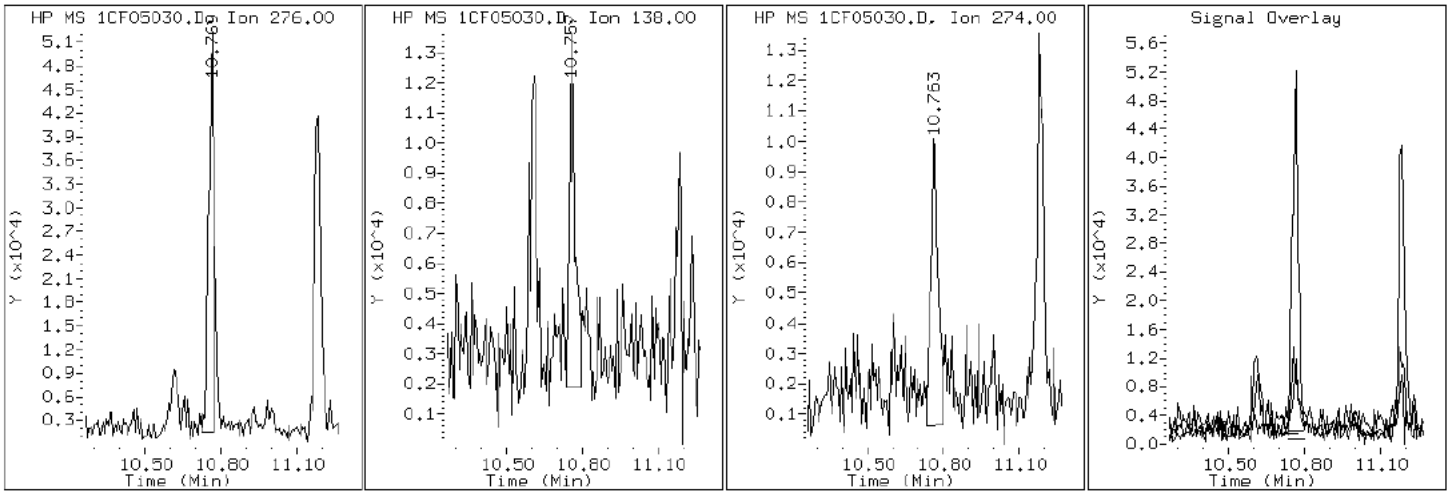
Data File: 1CF05030.D

Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a Operator: SCC

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



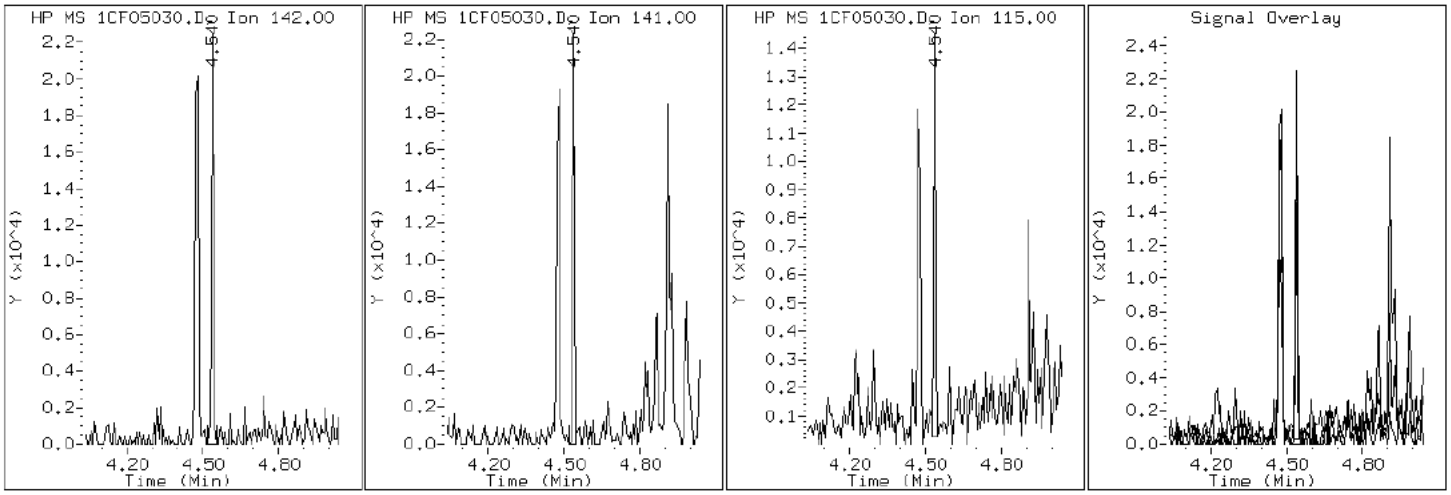
Data File: 1CF05030.D

Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a Operator: SCC

4 1-Methylnaphthalene



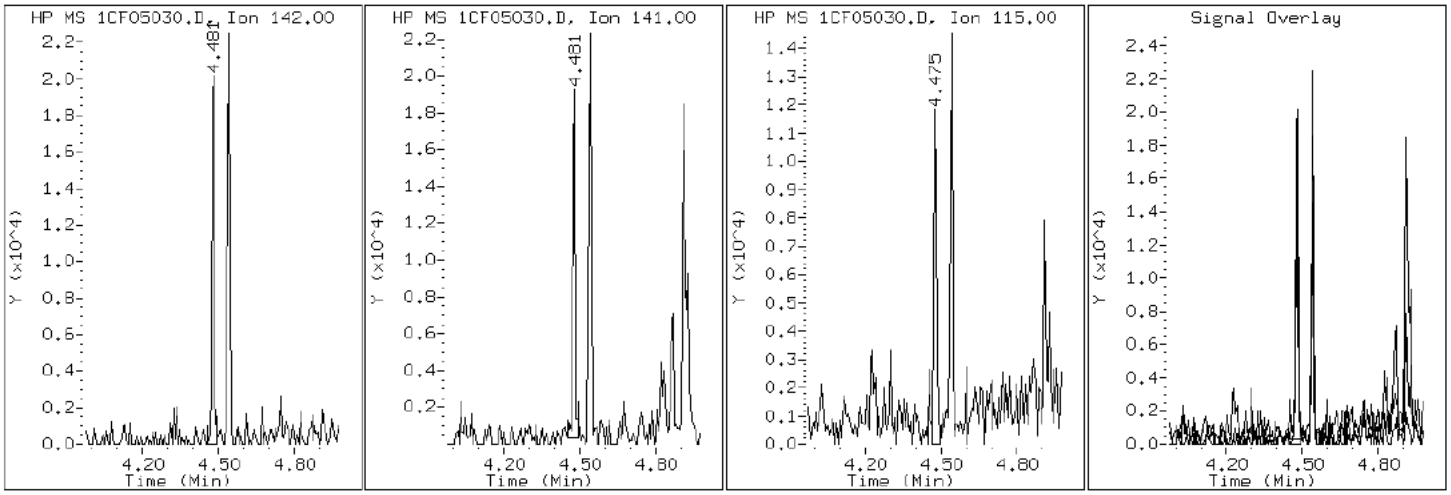
Data File: 1CF05030.D

Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a Operator: SCC

3 2-Methylnaphthalene



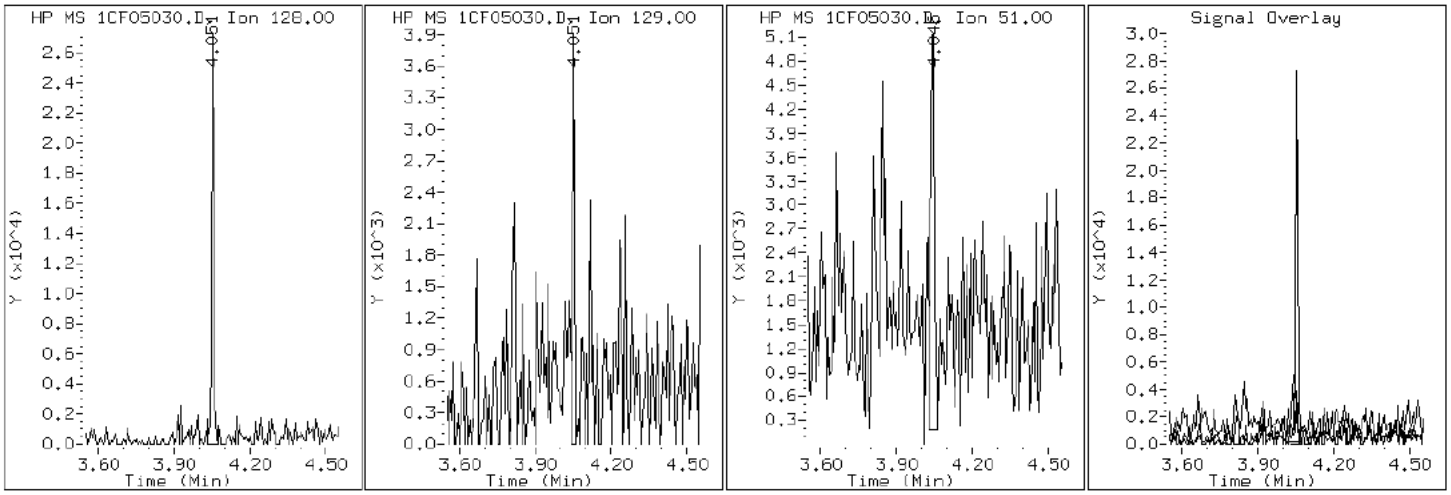
Data File: 1CF05030.D

Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a Operator: SCC

2 Naphthalene



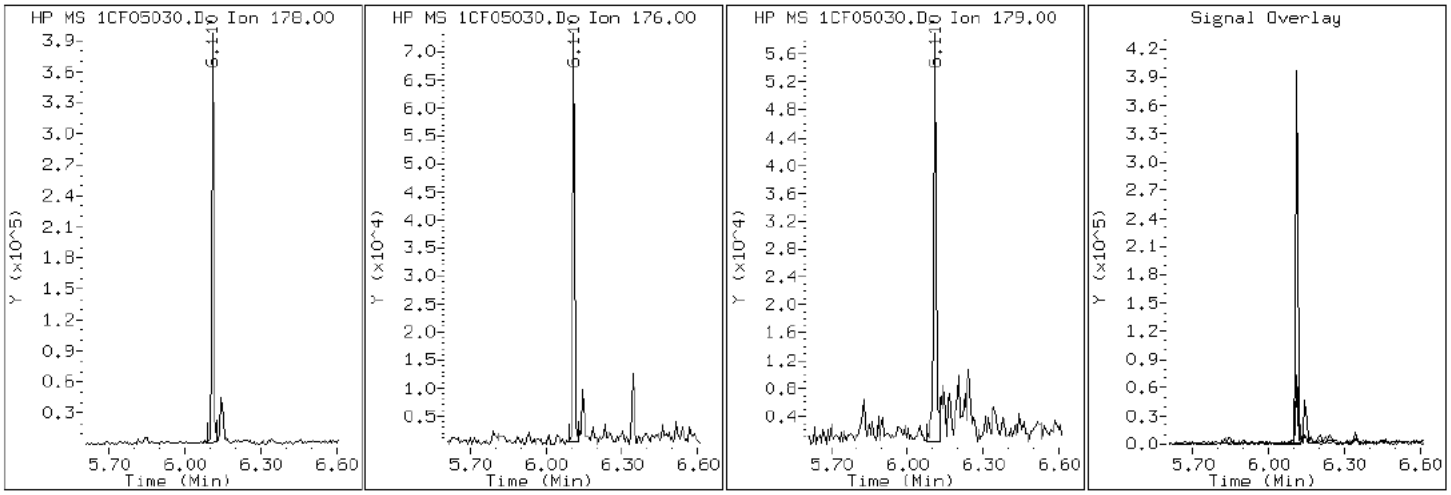
Data File: 1CF05030.D

Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a Operator: SCC

11 Phenanthrene



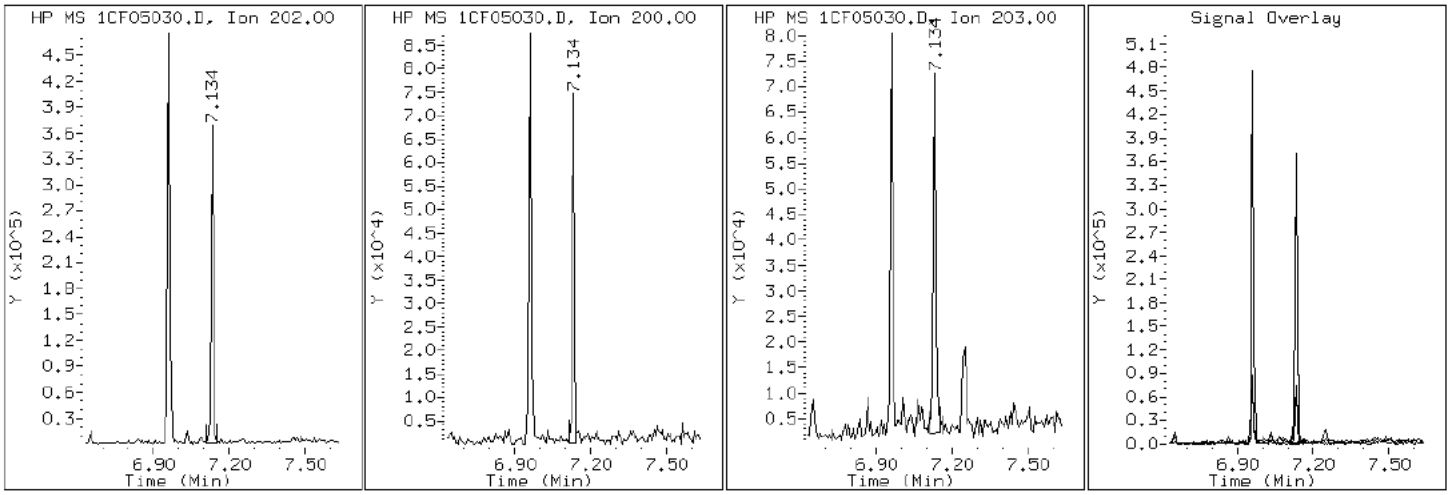
Data File: 1CF05030.D

Date: 05-JUN-2013 20:44

Client ID: CV1301A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-32-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF05030.D
Inj. Date and Time: 05-JUN-2013 20:44
Instrument ID: BSMC5973.i
Client ID: CV1301A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/06/2013

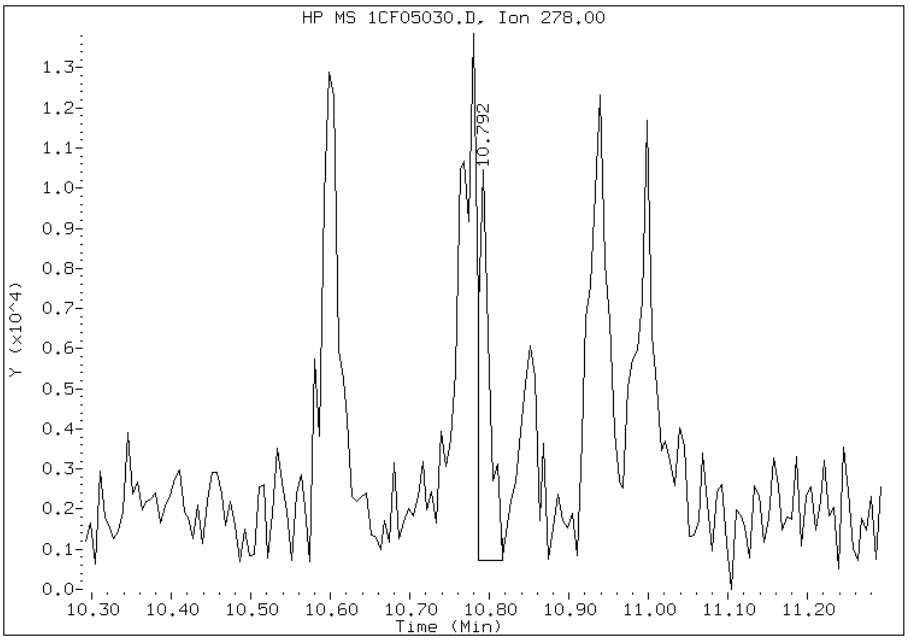
Processing Integration Results

RT: 10.79

Response: 9200

Amount: 0

Conc: 11



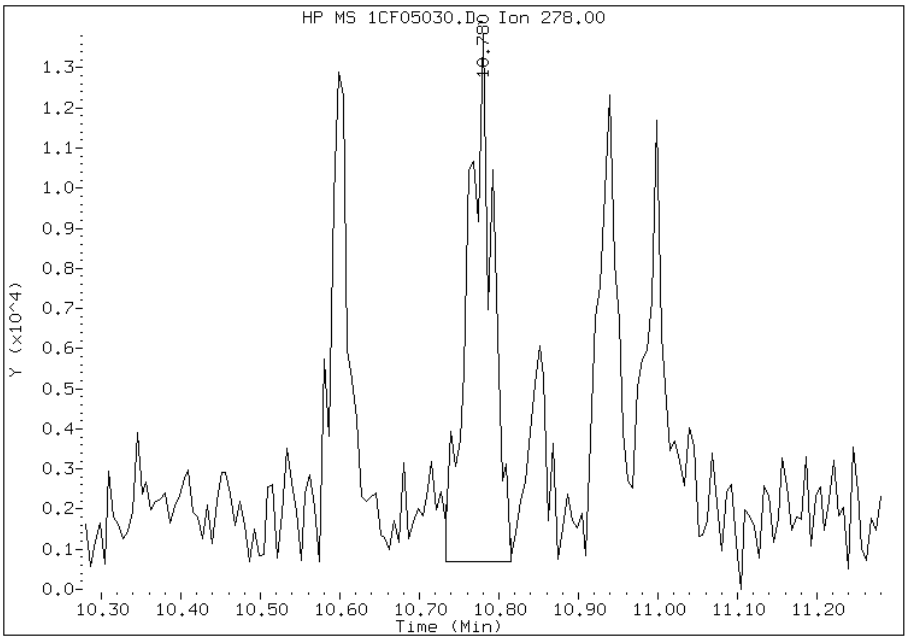
Manual Integration Results

RT: 10.78

Response: 28915

Amount: 0

Conc: 34



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF05030.D
Inj. Date and Time: 05-JUN-2013 20:44
Instrument ID: BSMC5973.i
Client ID: CV1301A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

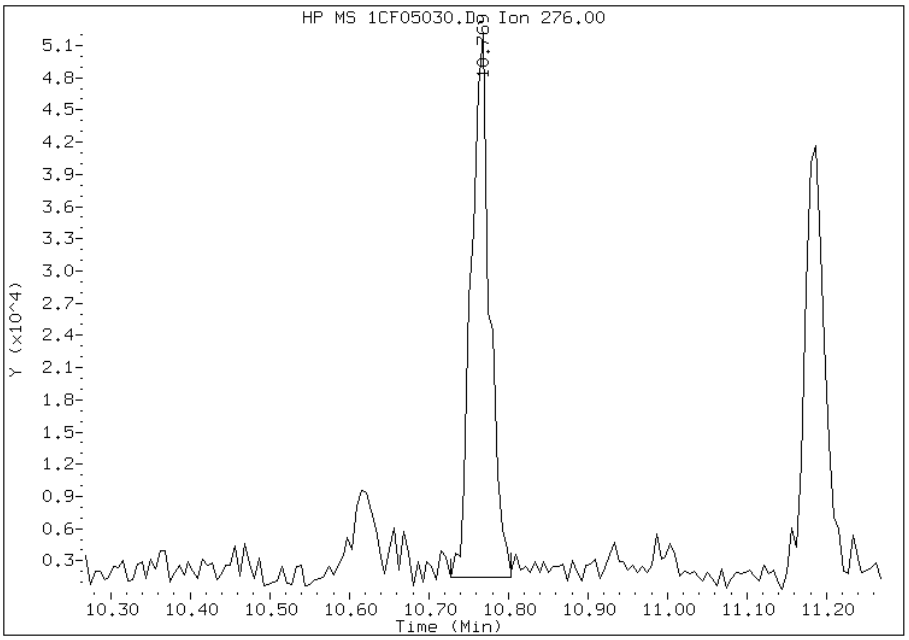
Processing Integration Results

RT: 10.77

Response: 82098

Amount: 1

Conc: 90



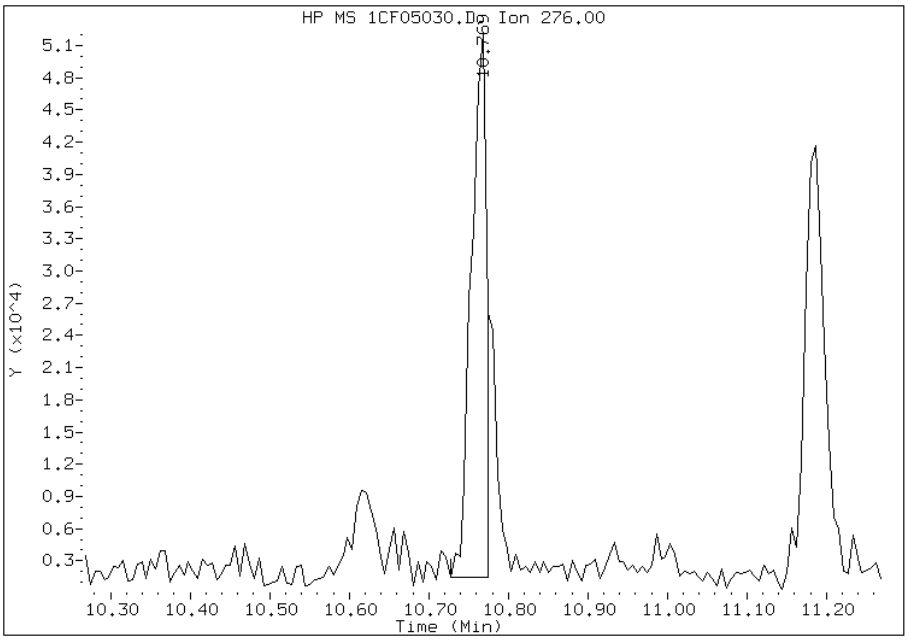
Manual Integration Results

RT: 10.77

Response: 67701

Amount: 1

Conc: 76



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV1301B-CS | Lab Sample ID: 680-90723-33

Matrix: Solid | Lab File ID: 1CF05031.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 13:10

Extract. Method: 3546 | Date Extracted: 06/03/2013 13:04

Sample wt/vol: 15.03(g) | Date Analyzed: 06/05/2013 21:02

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

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

% Moisture: 17.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	97
208-96-8	Acenaphthylene	49	J	190	24
120-12-7	Anthracene	46		41	20
56-55-3	Benzo[a]anthracene	210		39	19
50-32-8	Benzo[a]pyrene	190		50	25
205-99-2	Benzo[b]fluoranthene	330		59	30
191-24-2	Benzo[g,h,i]perylene	170		97	21
207-08-9	Benzo[k]fluoranthene	75		39	17
218-01-9	Chrysene	250		44	22
53-70-3	Dibenz(a,h)anthracene	61	J	97	20
206-44-0	Fluoranthene	260		97	19
86-73-7	Fluorene	34	J	97	20
193-39-5	Indeno[1,2,3-cd]pyrene	140		97	34
90-12-0	1-Methylnaphthalene	340		190	21
91-57-6	2-Methylnaphthalene	340		190	34
91-20-3	Naphthalene	180	J	190	21
85-01-8	Phenanthrene	360		39	19
129-00-0	Pyrene	260		97	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	93		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05031.D
Lab Smp Id: 680-90723-A-33-A Client Smp ID: CV1301B-CS
Inj Date : 05-JUN-2013 21:02
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-33-a
Misc Info : 680-90723-A-33-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 31
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	15.030	Weight Extracted
M	17.699	% 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	4.039	4.039	(1.000)	2178243	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1547333	40.0000	
* 10 Phenanthrene-d10	188	6.098	6.092	(1.000)	2939238	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.041)	105978	2.31465	748.4814
* 18 Chrysene-d12	240	8.057	8.056	(1.000)	3272729	40.0000	
* 23 Perylene-d12	264	9.392	9.392	(1.000)	3113368	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	34569	0.56237	181.8535
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	35322	1.03598	335.0007
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	34871	1.03952	336.1457
5 Acenaphthylene	152	5.045	5.039	(0.984)	9054	0.15263	49.3571
9 Fluorene	166	5.469	5.468	(1.067)	5057	0.10655	34.4533(Q)
11 Phenanthrene	178	6.110	6.110	(1.002)	96109	1.10677	357.8930
12 Anthracene	178	6.145	6.145	(1.008)	11567	0.14378	46.4936
13 Carbazole	167	6.251	6.251	(1.025)	7665	0.21685	70.1217

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.963	6.962	(1.142)	72606	0.81801	264.5165
16 Pyrene	202	7.133	7.133	(0.885)	70525	0.79803	258.0570
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	59995	0.66481	214.9780
19 Chrysene	228	8.080	8.074	(1.003)	70224	0.77289	249.9268
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	77706	1.01585	328.4916
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.959)	19898	0.23290	75.3125
22 Benzo(a)pyrene	252	9.321	9.327	(0.992)	39251	0.60251	194.8322
24 Indeno(1,2,3-cd)pyrene	276	10.768	10.768	(1.147)	23718	0.44327	143.3400(M)
25 Dibenzo(a,h)anthracene	278	10.780	10.786	(1.148)	12449	0.18734	60.5792
26 Benzo(g,h,i)perylene	276	11.186	11.186	(1.191)	37202	0.51435	166.3236

QC Flag Legend

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

Data File: 1CF05031.D

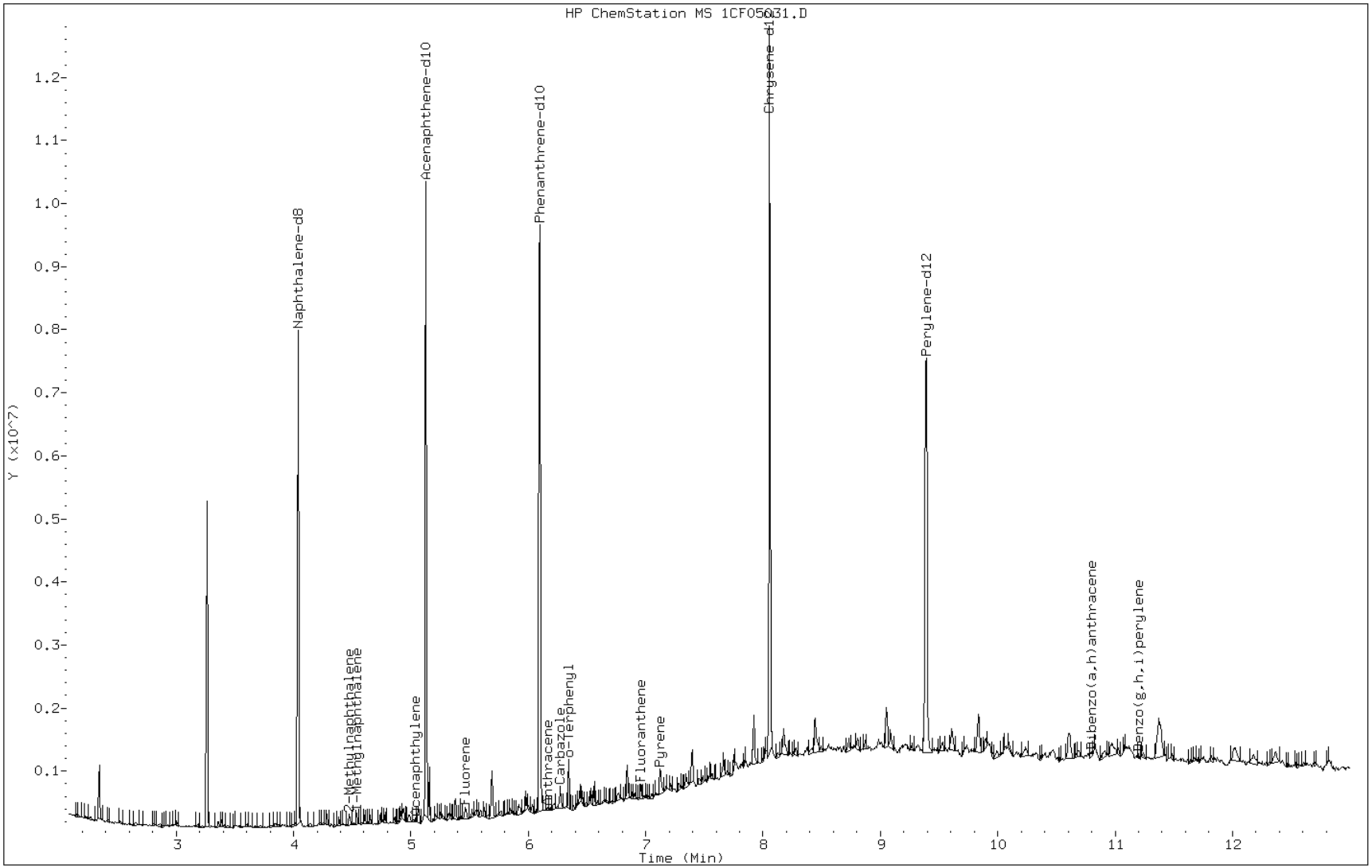
Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS

Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a

Operator: SCC



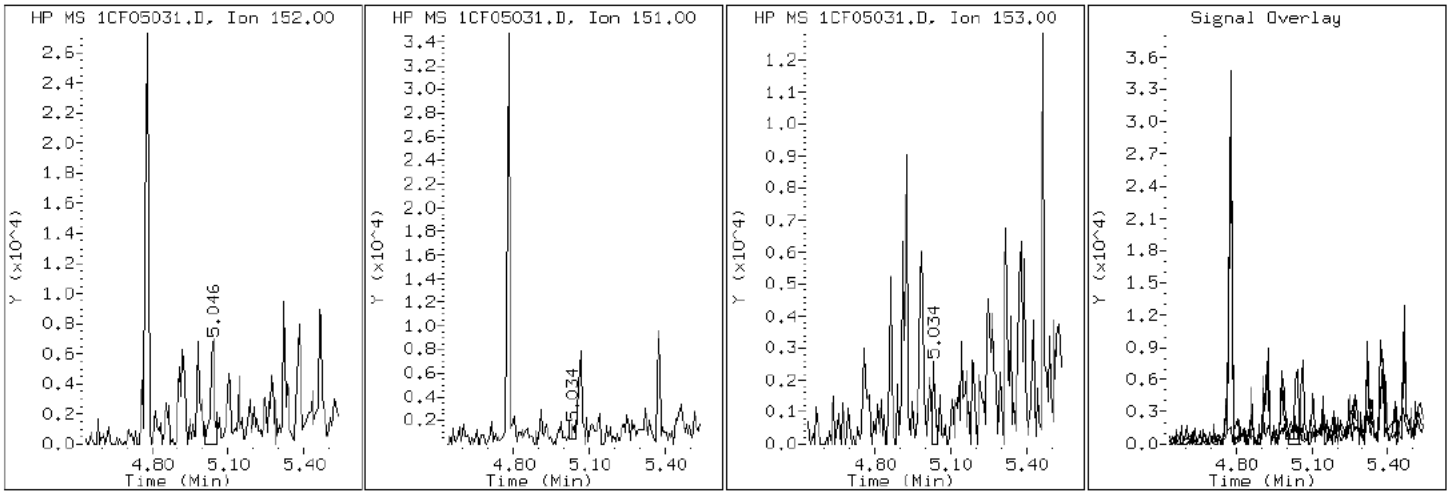
Data File: 1CF05031.D

Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a Operator: SCC

5 Acenaphthylene



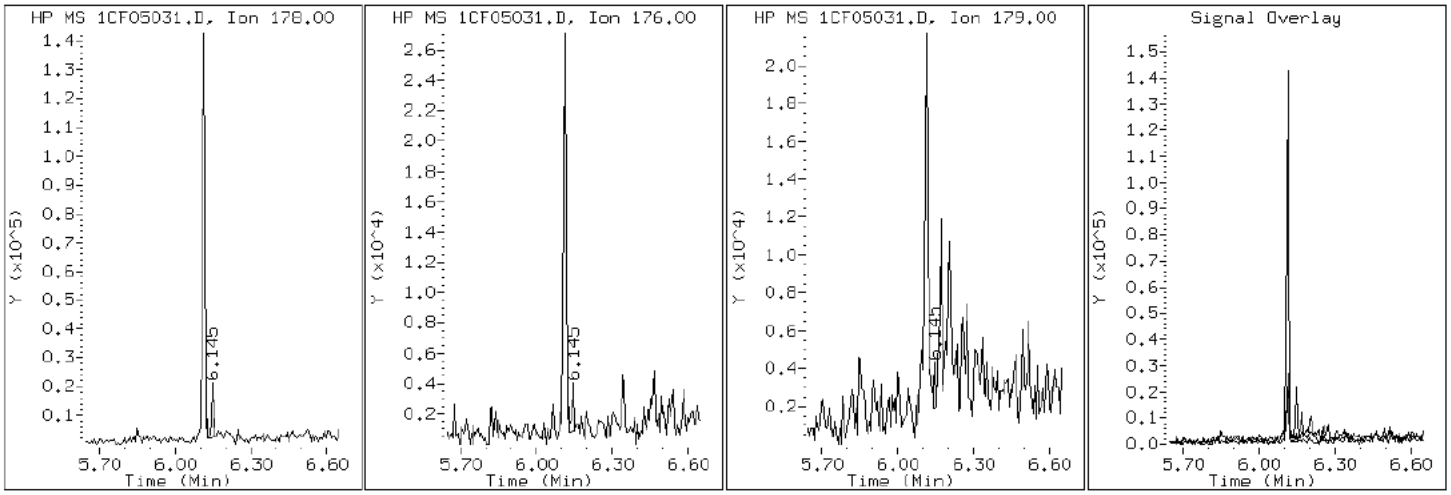
Data File: 1CF05031.D

Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a Operator: SCC

12 Anthracene



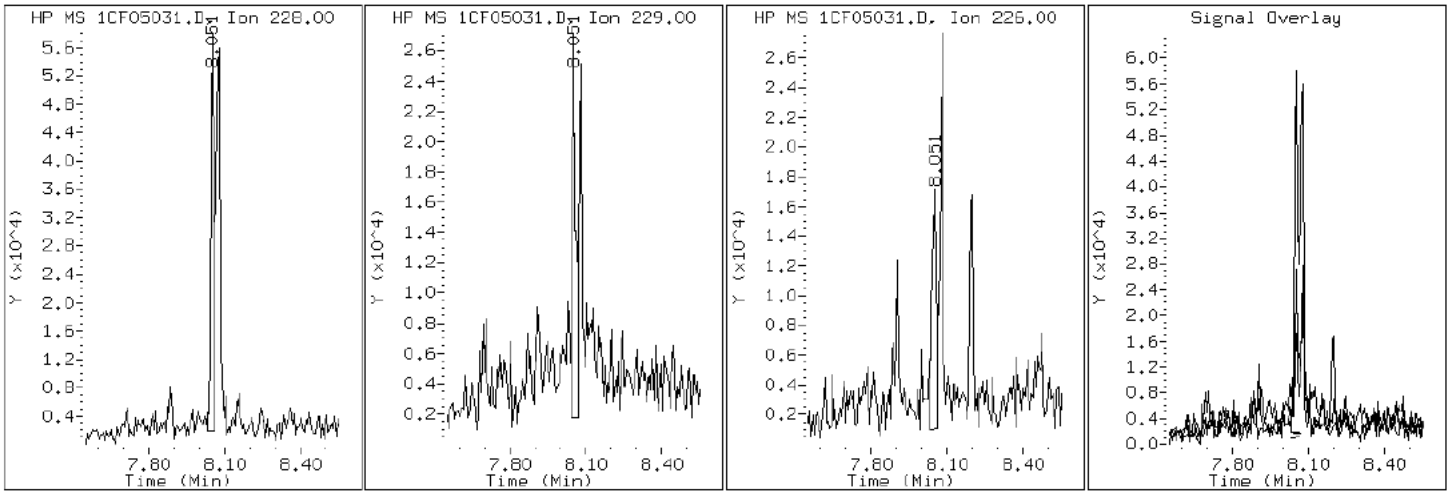
Data File: 1CF05031.D

Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a Operator: SCC

17 Benzo(a)anthracene



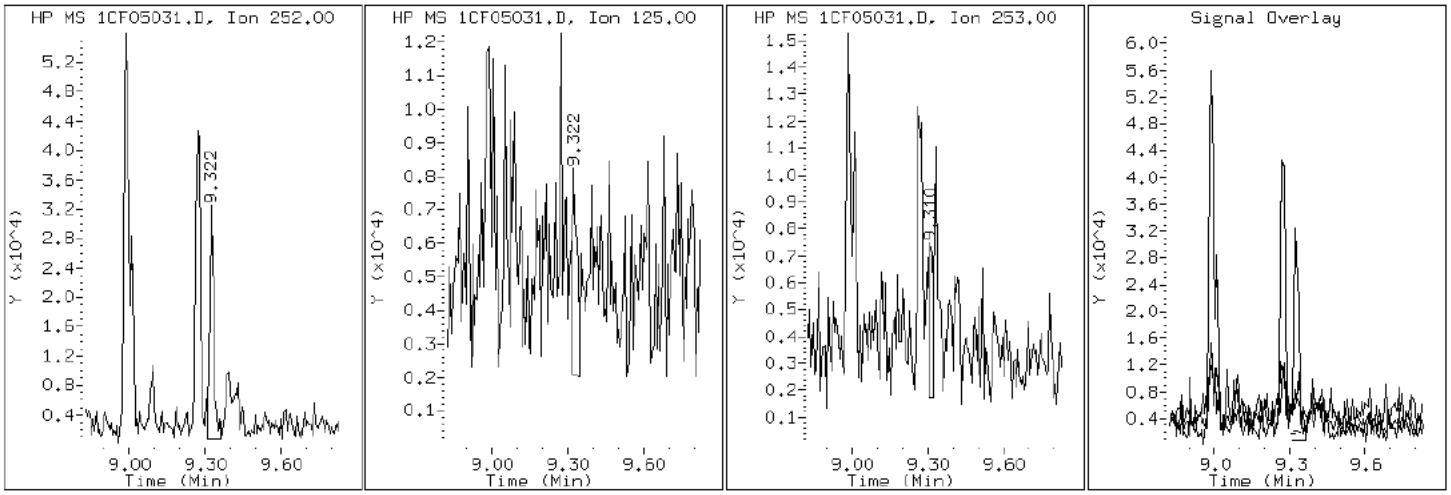
Data File: 1CF05031.D

Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a Operator: SCC

22 Benzo(a)pyrene



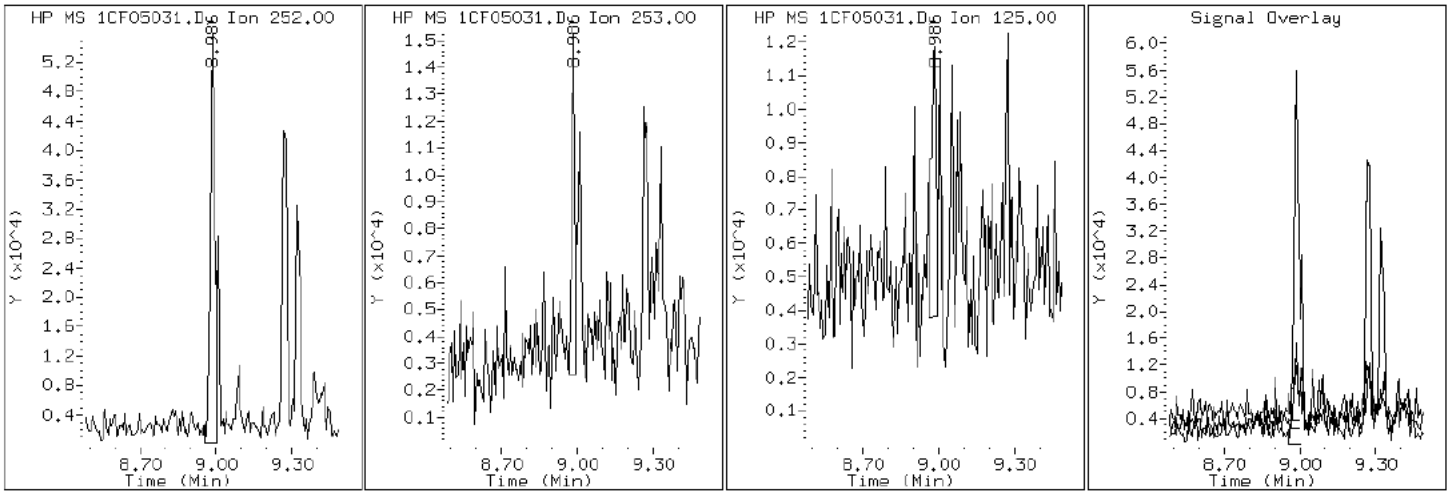
Data File: 1CF05031.D

Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a Operator: SCC

20 Benzo(b)fluoranthene



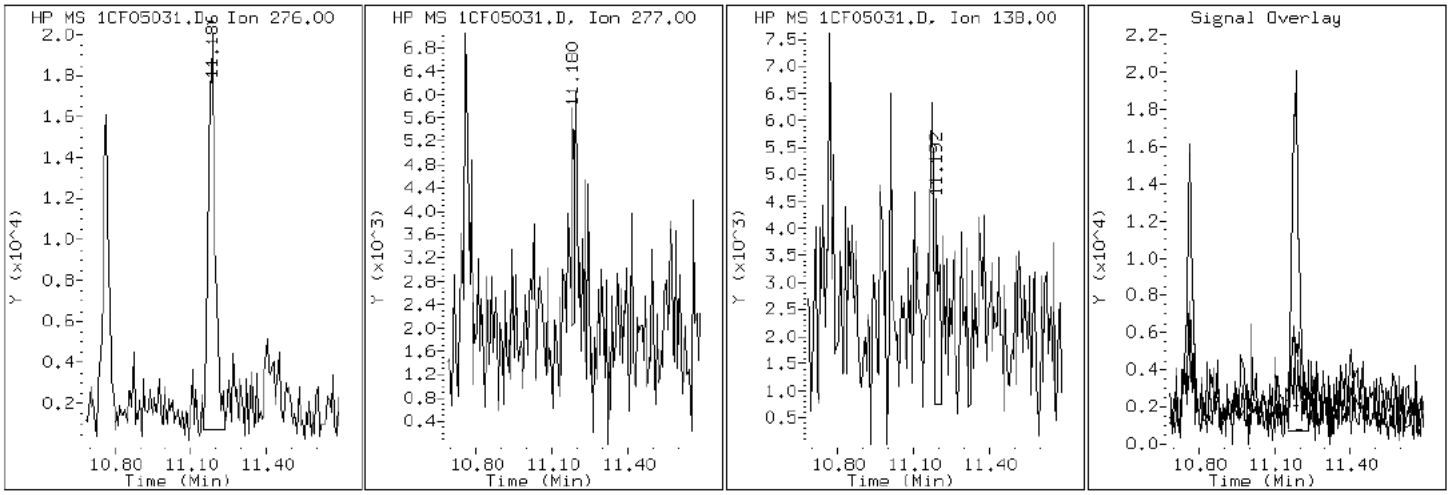
Data File: 1CF05031.D

Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a Operator: SCC

26 Benzo(g,h,i)perylene



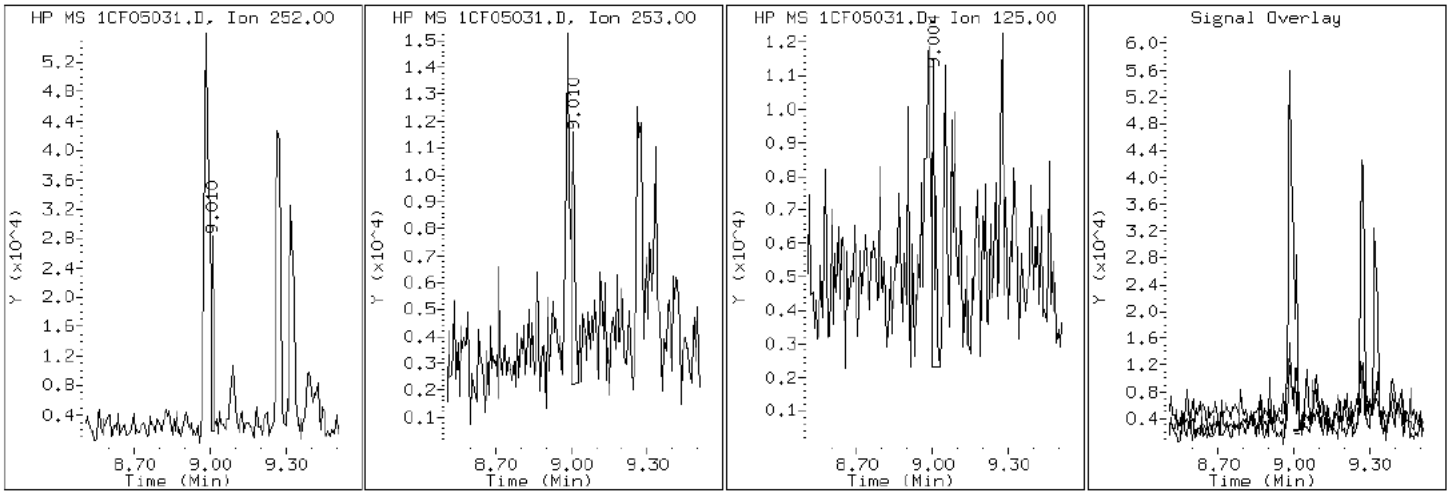
Data File: 1CF05031.D

Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a Operator: SCC

21 Benzo(k)fluoranthene



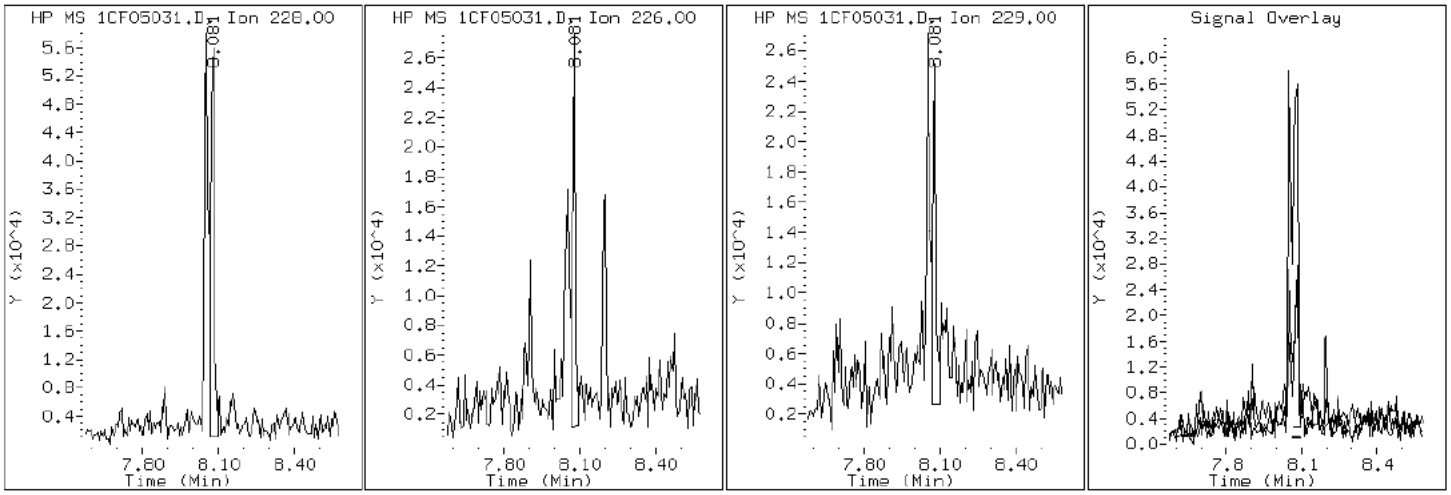
Data File: 1CF05031.D

Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a Operator: SCC

19 Chrysene



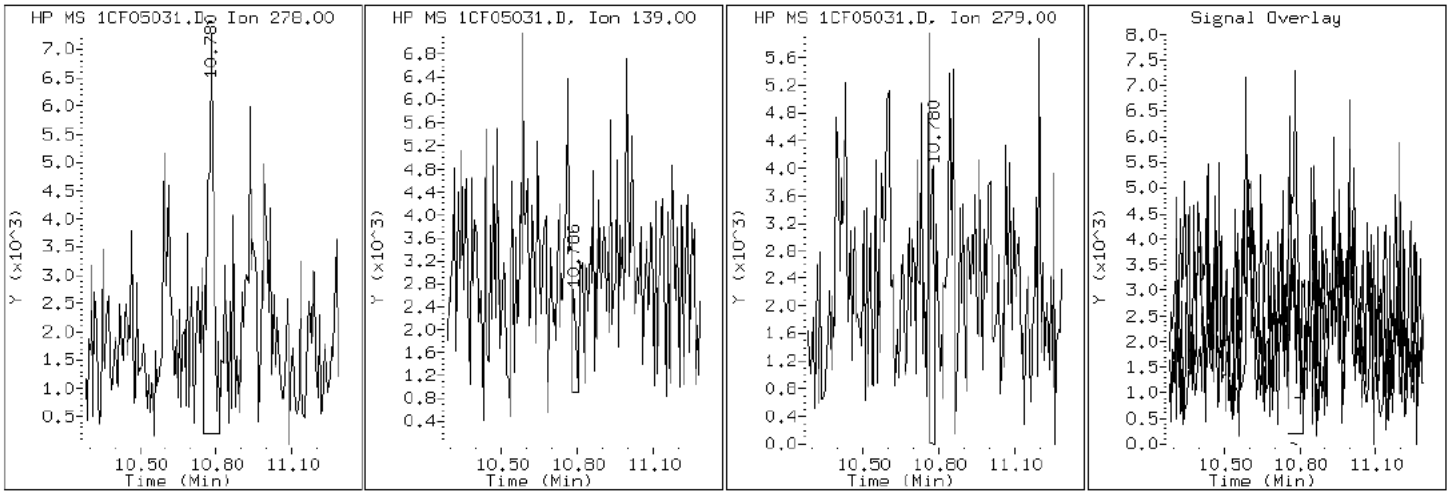
Data File: 1CF05031.D

Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a Operator: SCC

25 Dibenzo(a,h)anthracene



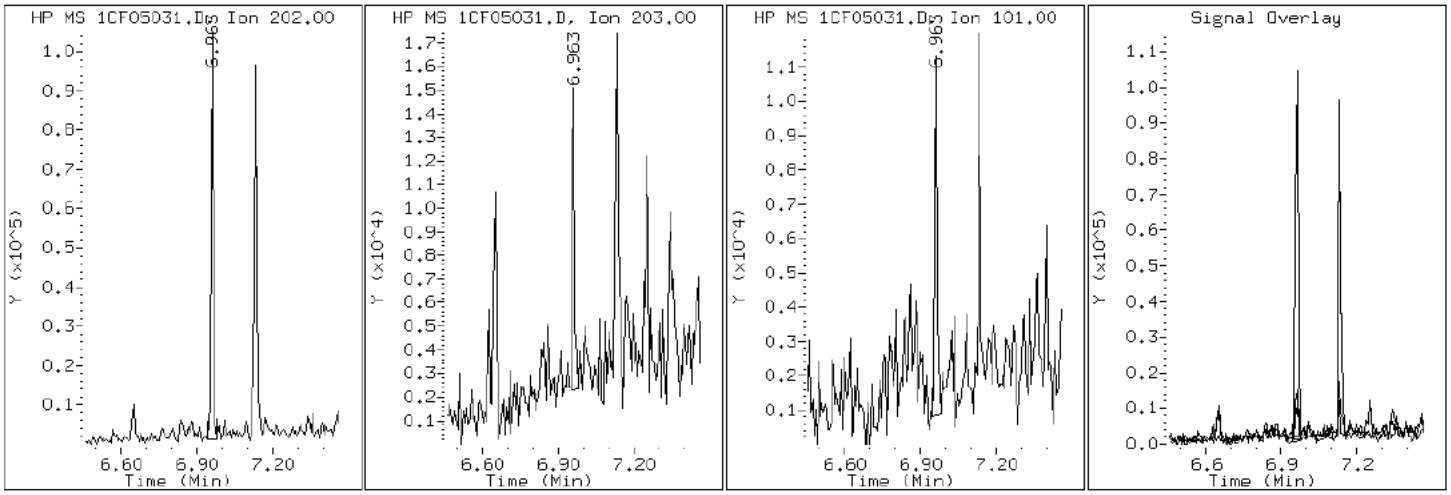
Data File: 1CF05031.D

Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a Operator: SCC

15 Fluoranthene



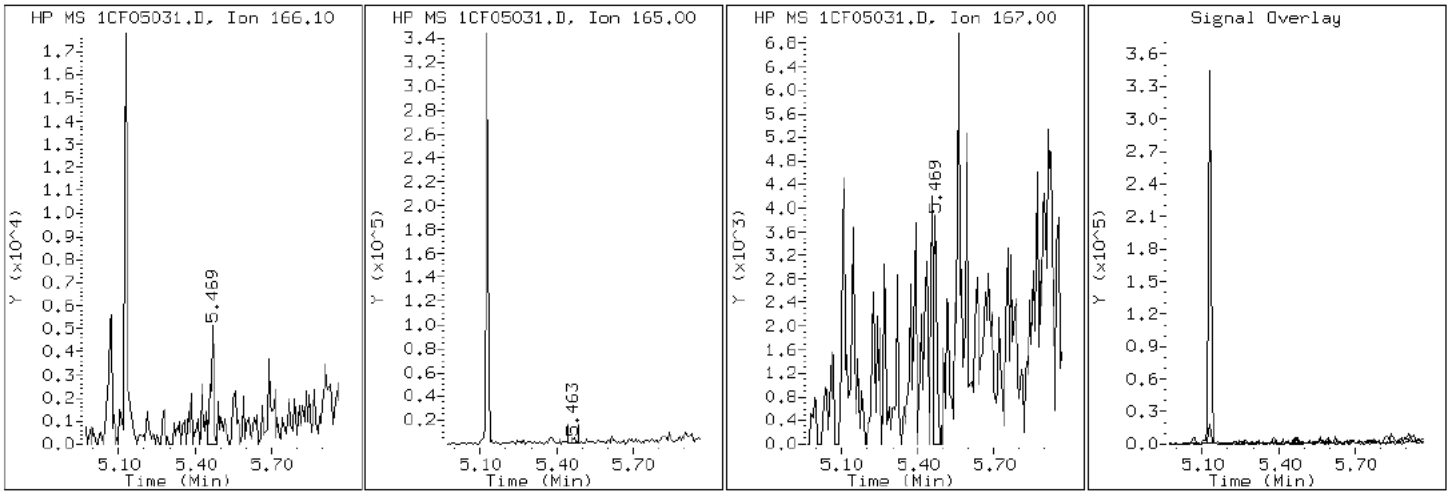
Data File: 1CF05031.D

Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a Operator: SCC

9 Fluorene



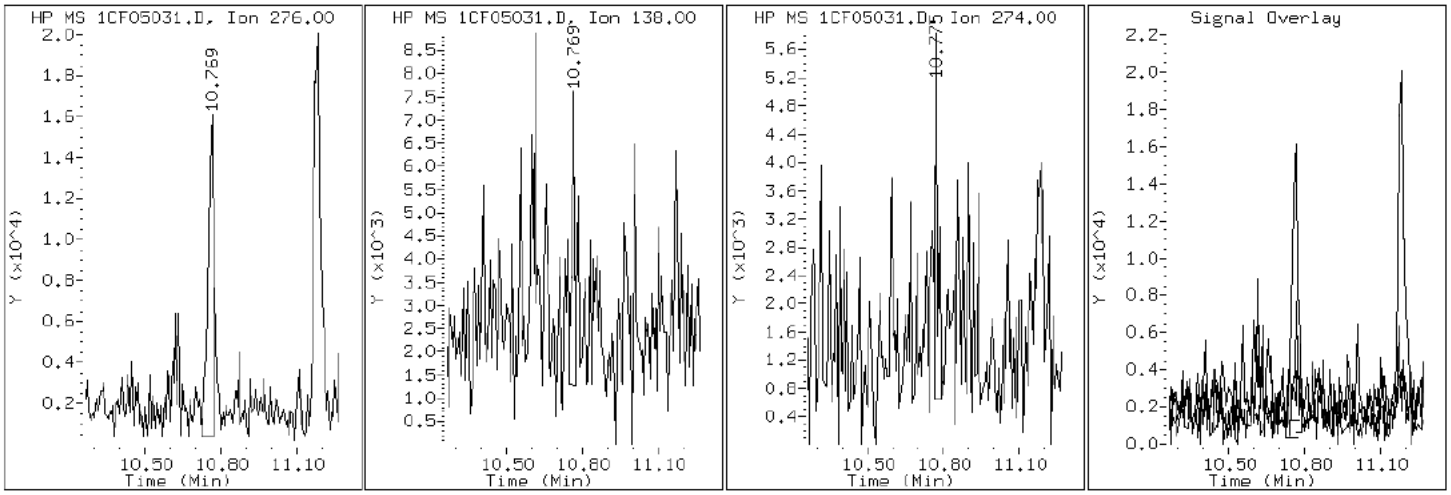
Data File: 1CF05031.D

Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a Operator: SCC

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



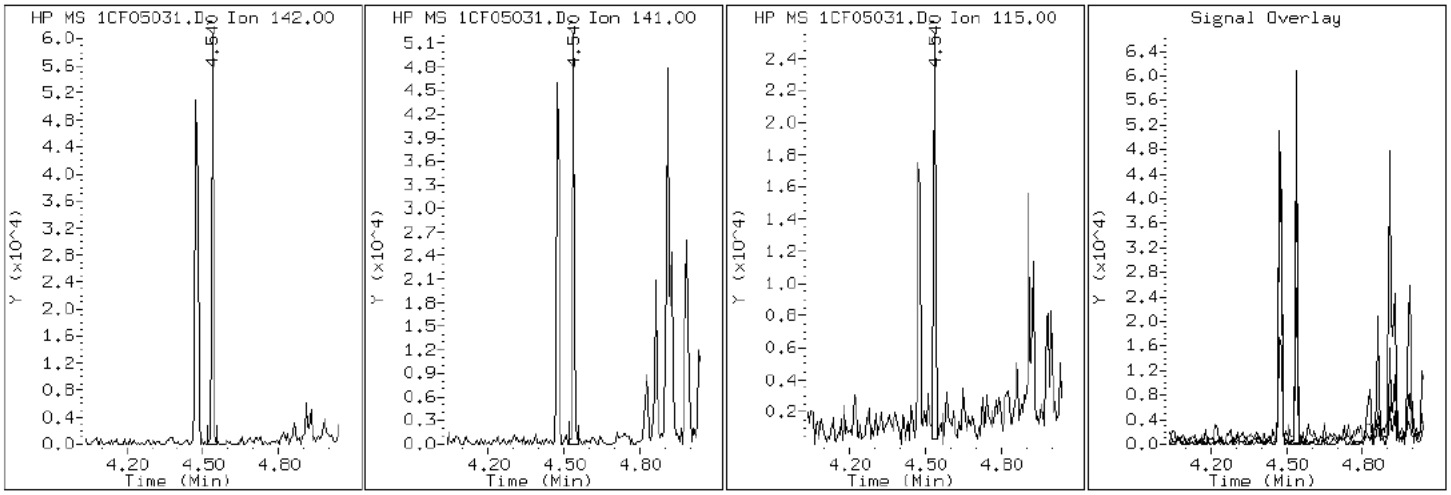
Data File: 1CF05031.D

Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a Operator: SCC

4 1-Methylnaphthalene



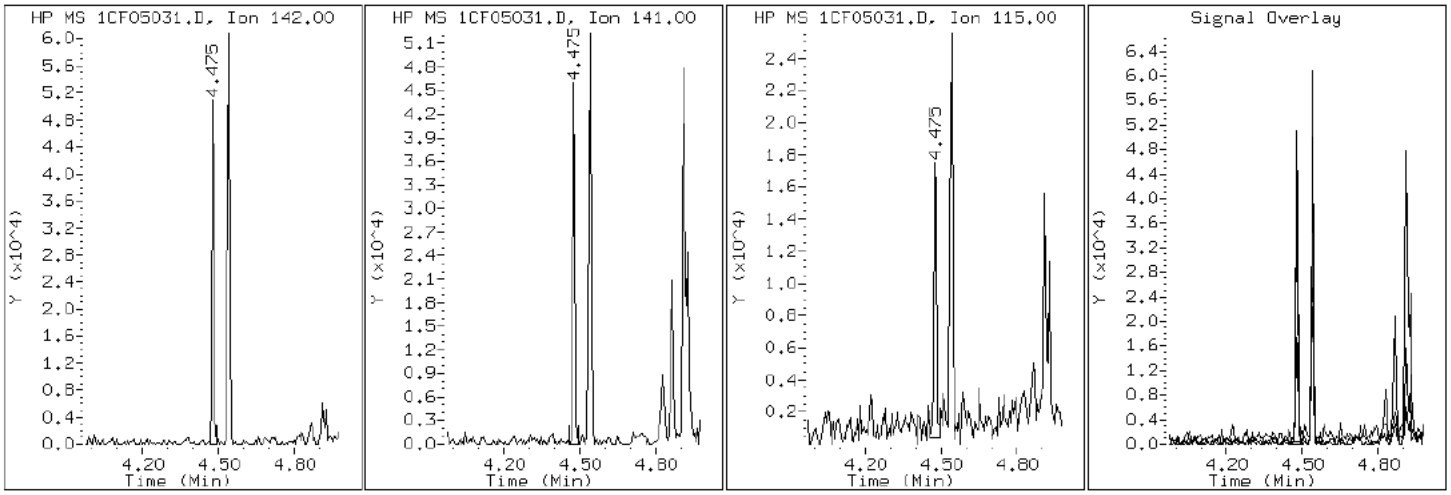
Data File: 1CF05031.D

Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a Operator: SCC

3 2-Methylnaphthalene



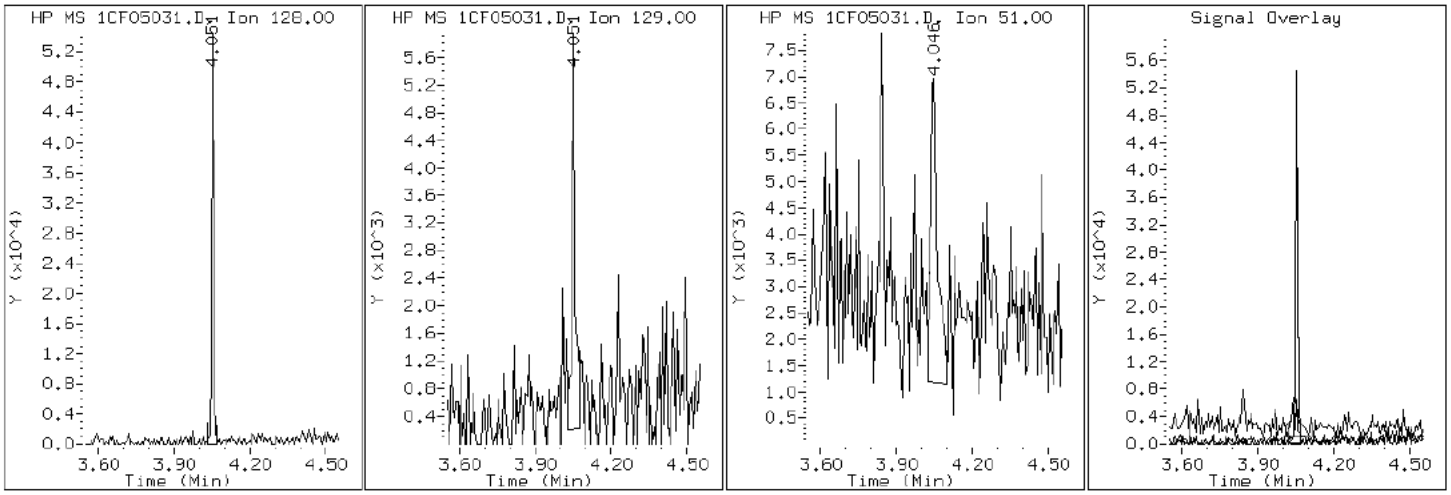
Data File: 1CF05031.D

Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a Operator: SCC

2 Naphthalene



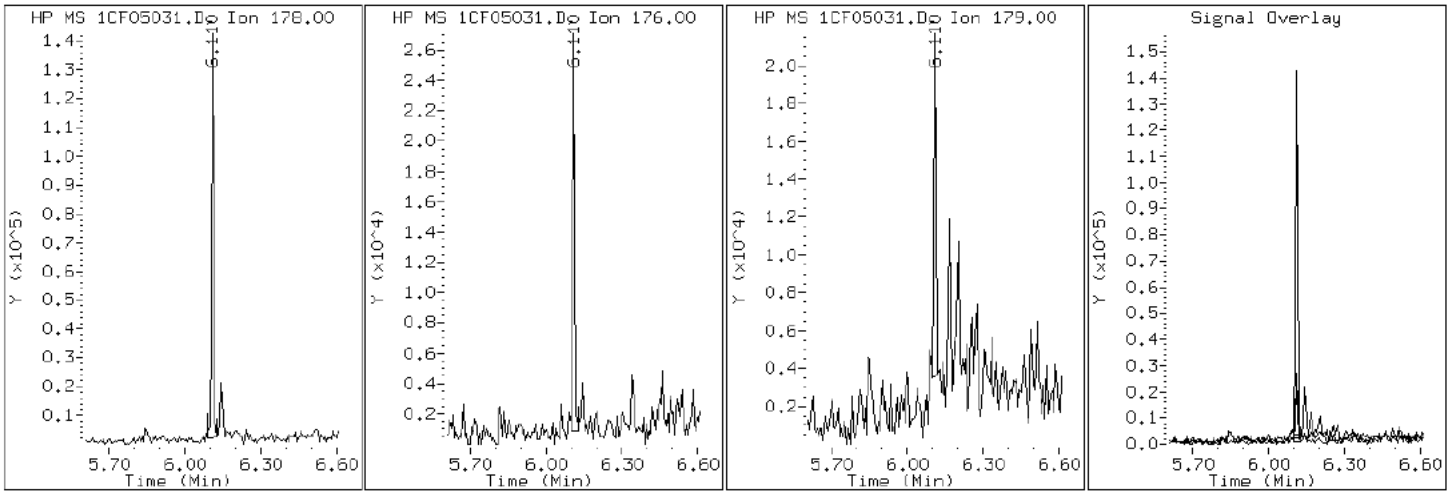
Data File: 1CF05031.D

Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a Operator: SCC

11 Phenanthrene



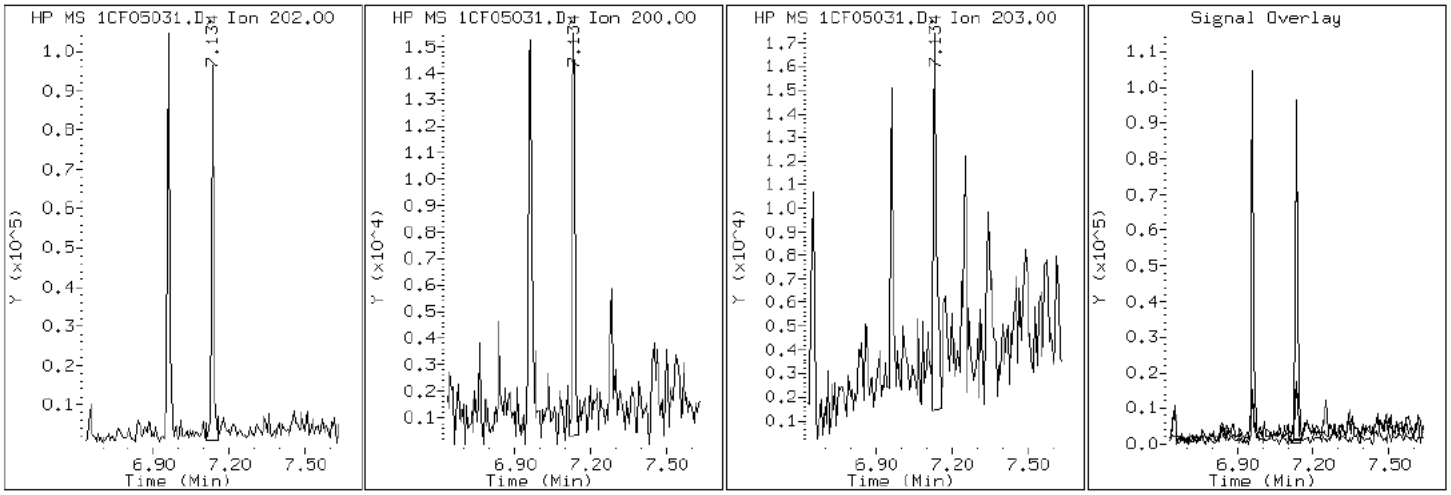
Data File: 1CF05031.D

Date: 05-JUN-2013 21:02

Client ID: CV1301B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-33-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF05031.D
Inj. Date and Time: 05-JUN-2013 21:02
Instrument ID: BSMC5973.i
Client ID: CV1301B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

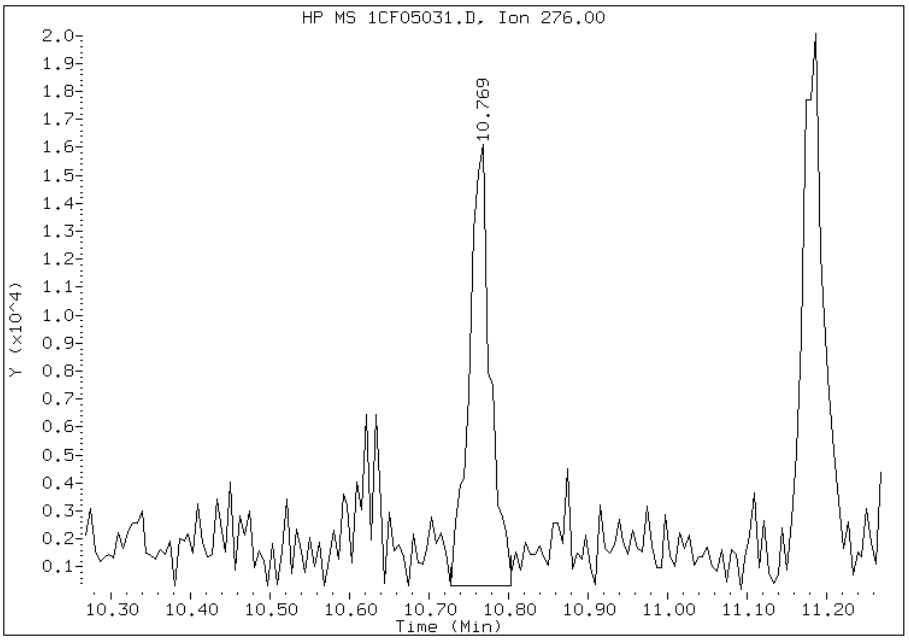
Processing Integration Results

RT: 10.77

Response: 28920

Amount: 1

Conc: 164



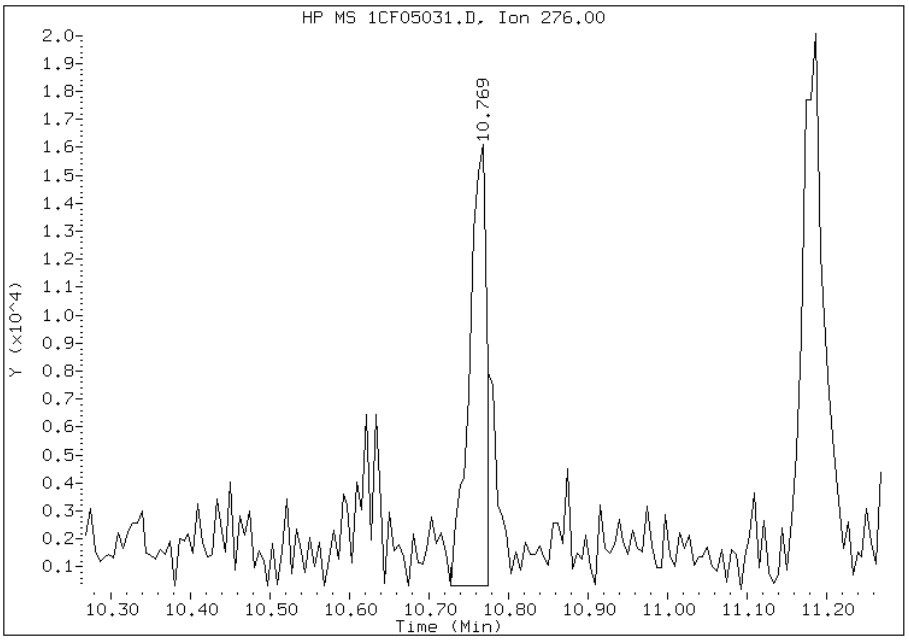
Manual Integration Results

RT: 10.77

Response: 23718

Amount: 0

Conc: 143



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV1242A-CS | Lab Sample ID: 680-90723-34

Matrix: Solid | Lab File ID: 1CF05032.D

Analysis Method: 8270C LL | Date Collected: 05/24/2013 08:35

Extract. Method: 3546 | Date Extracted: 06/03/2013 13:04

Sample wt/vol: 15.31(g) | Date Analyzed: 06/05/2013 21:20

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

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

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

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	99
208-96-8	Acenaphthylene	53	J	200	25
120-12-7	Anthracene	130		42	21
56-55-3	Benzo[a]anthracene	610		40	19
50-32-8	Benzo[a]pyrene	480		52	26
205-99-2	Benzo[b]fluoranthene	790		61	30
191-24-2	Benzo[g,h,i]perylene	340		99	22
207-08-9	Benzo[k]fluoranthene	230		40	18
218-01-9	Chrysene	580		45	22
53-70-3	Dibenz(a,h)anthracene	100		99	20
206-44-0	Fluoranthene	1200		99	20
86-73-7	Fluorene	39	J	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	290		99	35
90-12-0	1-Methylnaphthalene	290		200	22
91-57-6	2-Methylnaphthalene	430		200	35
91-20-3	Naphthalene	220		200	22
85-01-8	Phenanthrene	710		40	19
129-00-0	Pyrene	840		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05032.D
Lab Smp Id: 680-90723-A-34-A Client Smp ID: CV1242A-CS
Inj Date : 05-JUN-2013 21:20
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-34-a
Misc Info : 680-90723-A-34-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 32
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	15.310	Weight Extracted
M	21.118	% 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	4.039	4.039	(1.000)	2122683	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1495453	40.0000	
* 10 Phenanthrene-d10	188	6.098	6.092	(1.000)	2748783	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.041)	94770	2.21327	733.0623
* 18 Chrysene-d12	240	8.056	8.056	(1.000)	3247309	40.0000	
* 23 Perylene-d12	264	9.392	9.392	(1.000)	3041348	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	39971	0.66727	221.0098
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	42890	1.29087	427.5512
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	28930	0.88499	293.1185
5 Acenaphthylene	152	5.039	5.039	(0.983)	9159	0.15976	52.9150
9 Fluorene	166	5.468	5.468	(1.067)	5398	0.11768	38.9755(Q)
11 Phenanthrene	178	6.109	6.110	(1.002)	174056	2.14327	709.8767
12 Anthracene	178	6.145	6.145	(1.008)	30126	0.40042	132.6231
13 Carbazole	167	6.251	6.251	(1.025)	17013	0.35695	118.2255

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.962	6.962	(1.142)	297220	3.58060	1185.9409
16 Pyrene	202	7.133	7.133	(0.885)	221717	2.52849	837.4684
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	165893	1.85267	613.6262
19 Chrysene	228	8.074	8.074	(1.002)	157972	1.75226	580.3691
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	178238	2.38527	790.0323
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.959)	58728	0.70367	233.0655
22 Benzo(a)pyrene	252	9.327	9.327	(0.993)	102554	1.44275	477.8570
24 Indeno(1,2,3-cd)pyrene	276	10.762	10.768	(1.146)	58549	0.87822	290.8773(M)
25 Dibenzo(a,h)anthracene	278	10.780	10.786	(1.148)	20513	0.31600	104.6630
26 Benzo(g,h,i)perylene	276	11.186	11.186	(1.191)	72470	1.02568	339.7197(M)

QC Flag Legend

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

Data File: 1CF05032.D

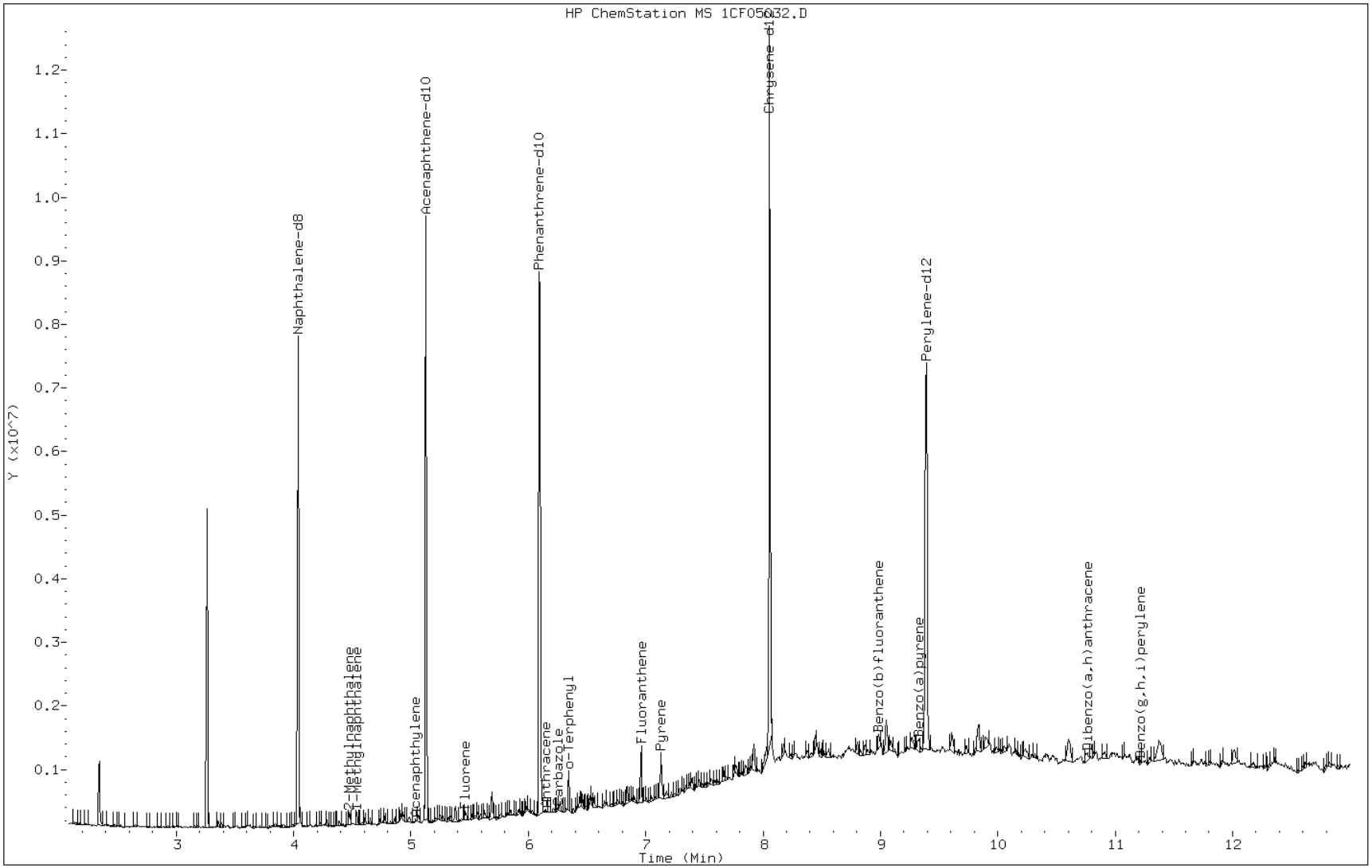
Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS

Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a

Operator: SCC



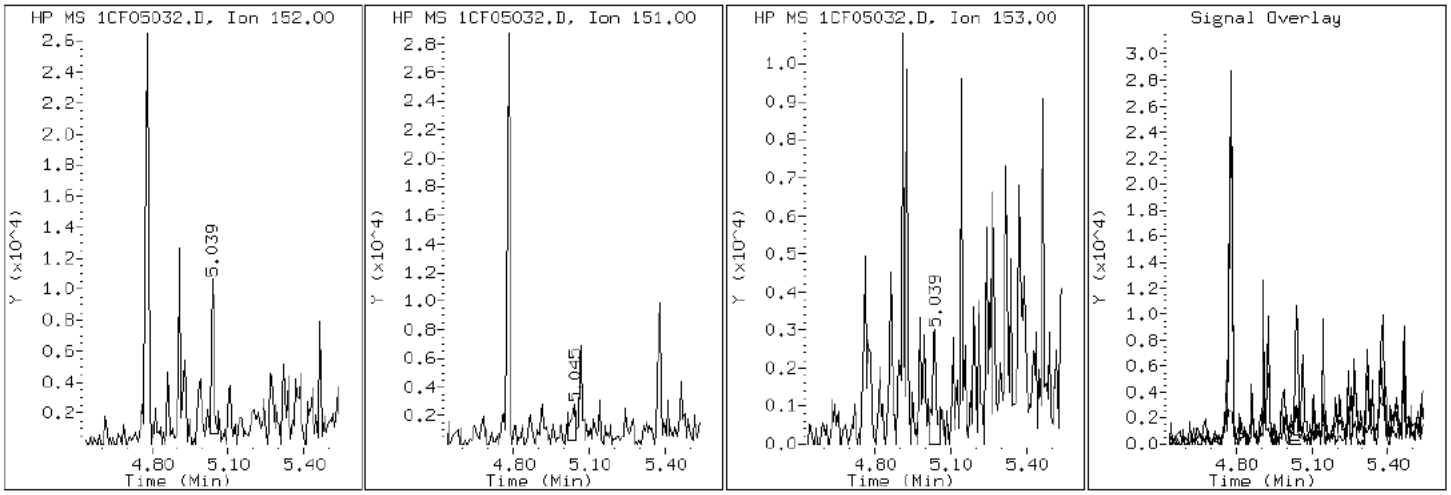
Data File: 1CF05032.D

Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a Operator: SCC

5 Acenaphthylene



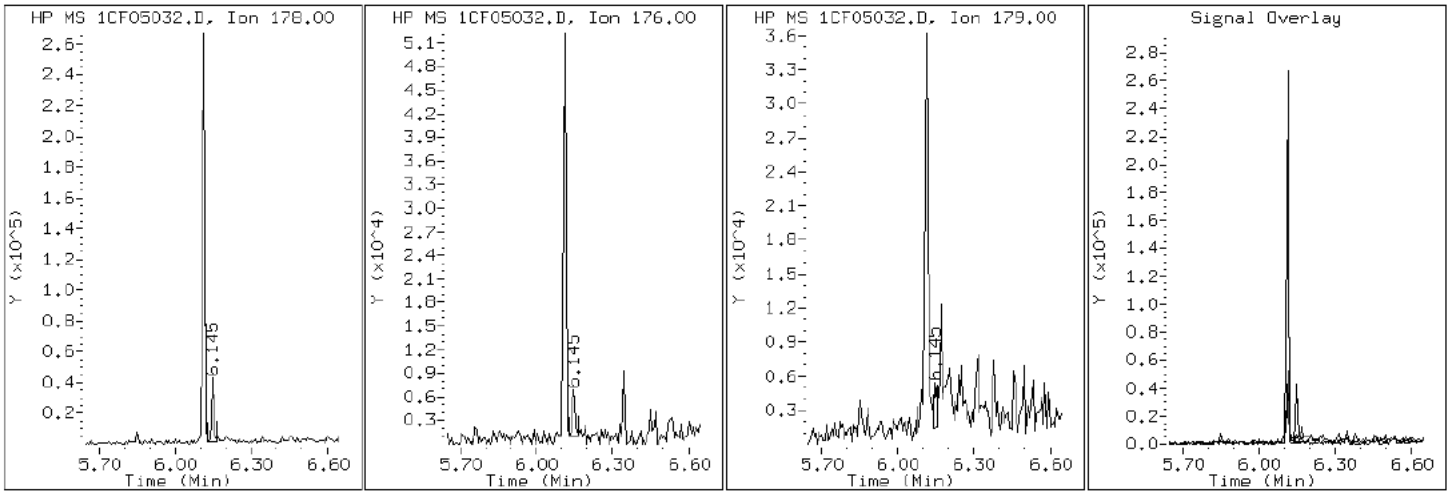
Data File: 1CF05032.D

Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a Operator: SCC

12 Anthracene



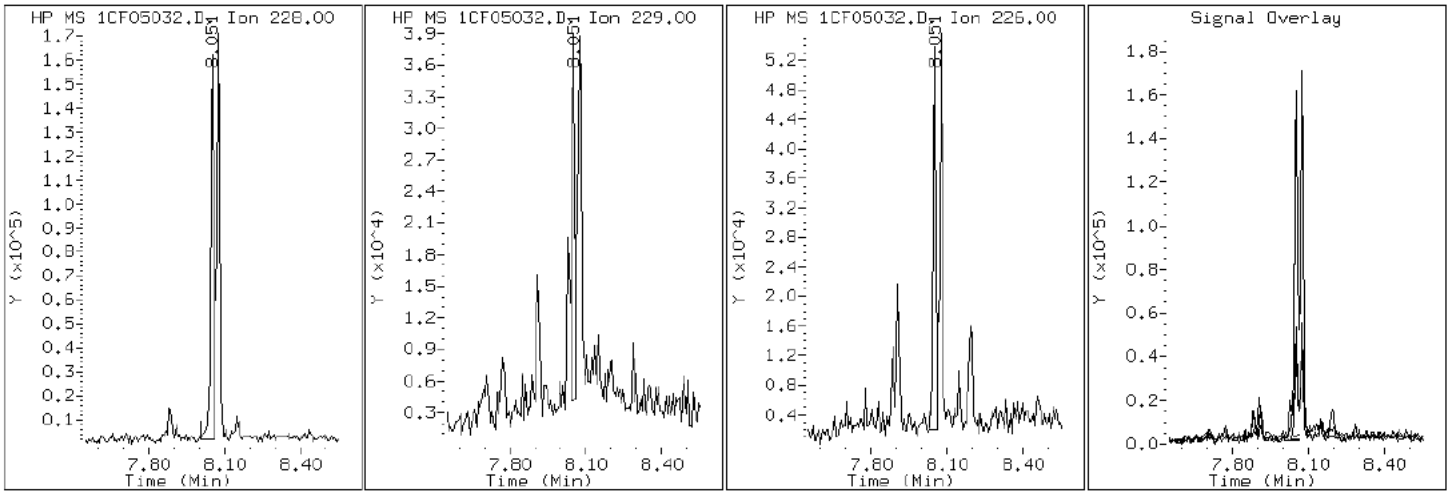
Data File: 1CF05032.D

Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a Operator: SCC

17 Benzo(a)anthracene



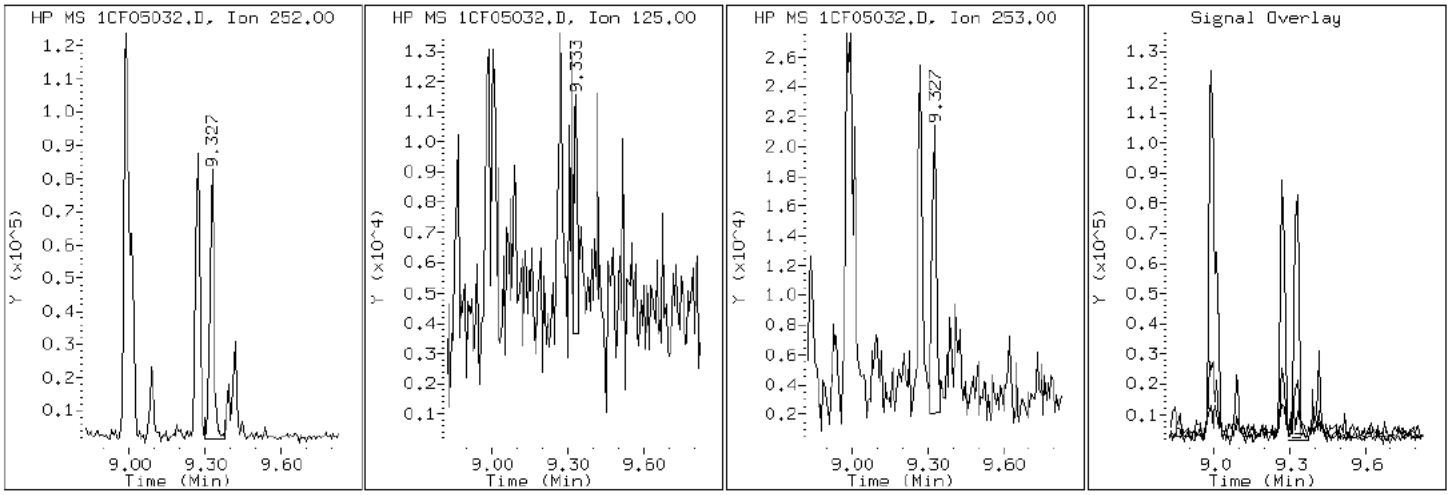
Data File: 1CF05032.D

Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a Operator: SCC

22 Benzo(a)pyrene



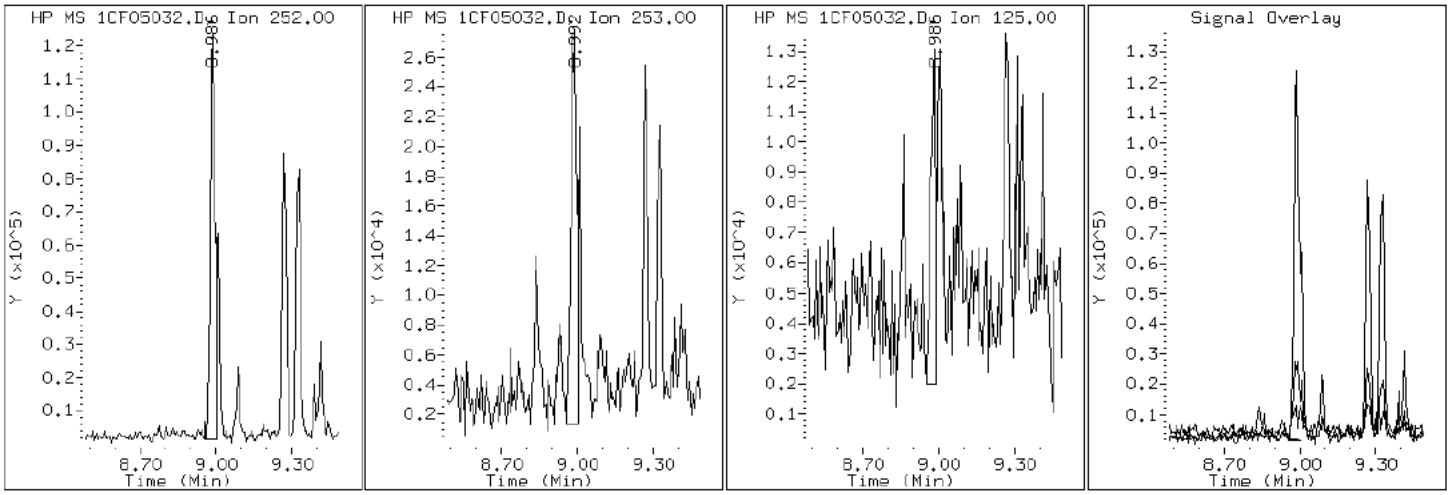
Data File: 1CF05032.D

Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a Operator: SCC

20 Benzo(b)fluoranthene



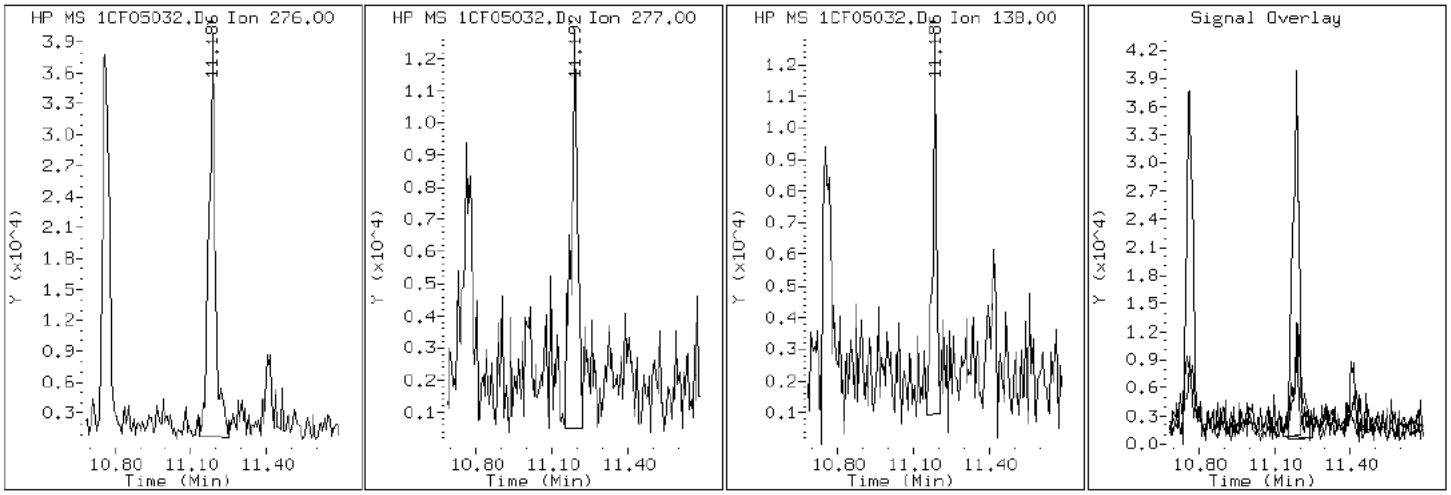
Data File: 1CF05032.D

Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a Operator: SCC

26 Benzo(g,h,i)perylene



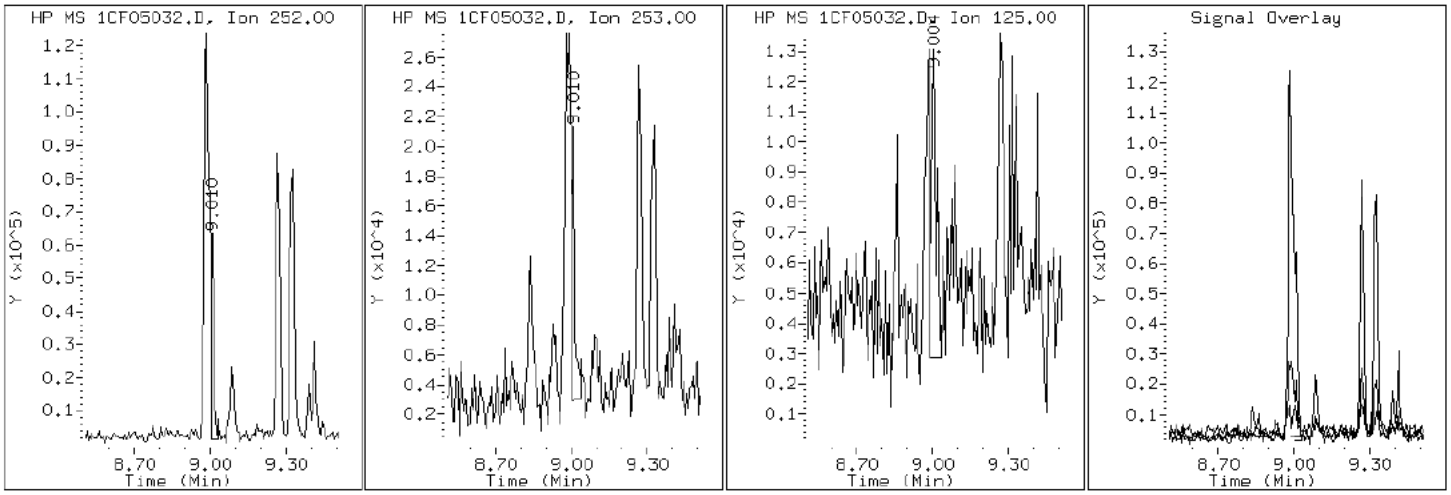
Data File: 1CF05032.D

Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a Operator: SCC

21 Benzo(k)fluoranthene



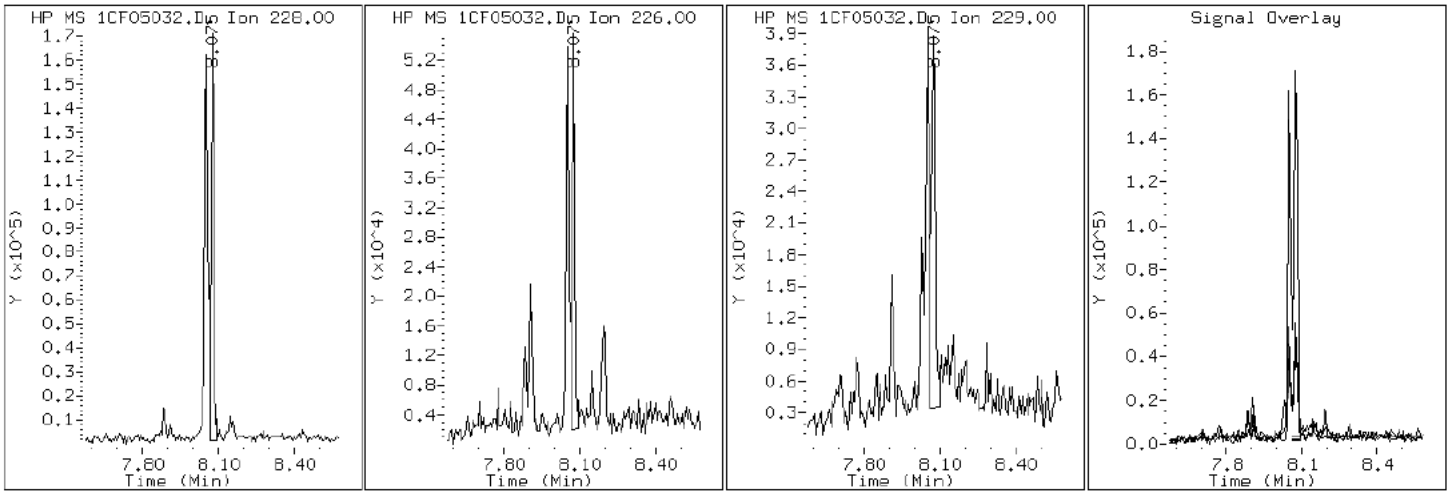
Data File: 1CF05032.D

Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a Operator: SCC

19 Chrysene



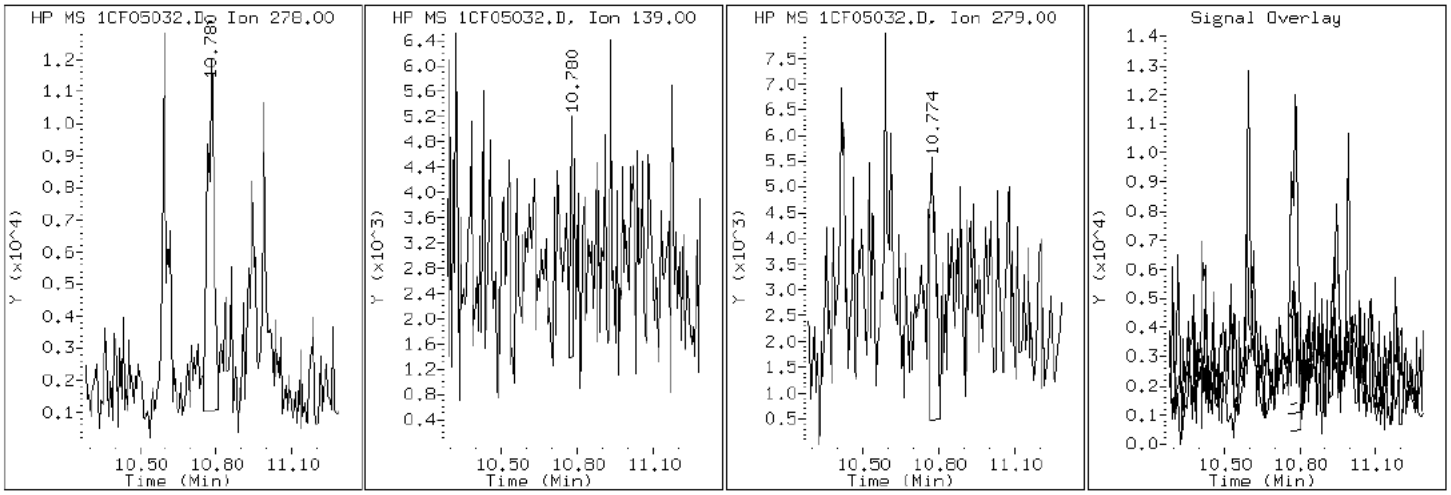
Data File: 1CF05032.D

Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS | Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a | Operator: SCC

25 Dibenzo(a,h)anthracene



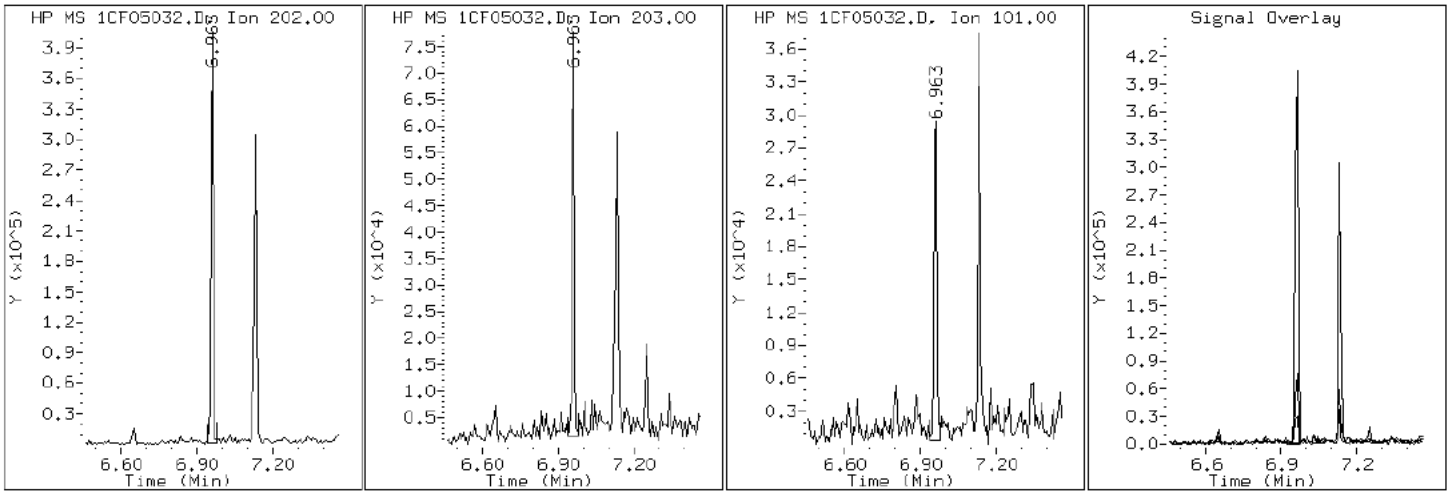
Data File: 1CF05032.D

Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a Operator: SCC

15 Fluoranthene



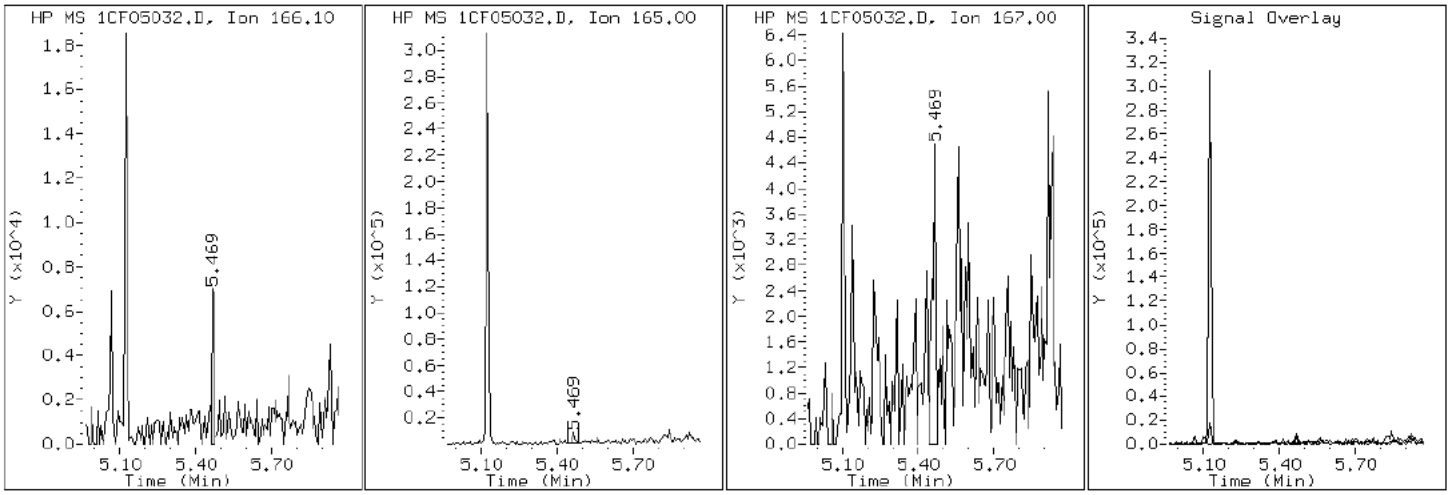
Data File: 1CF05032.D

Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a Operator: SCC

9 Fluorene



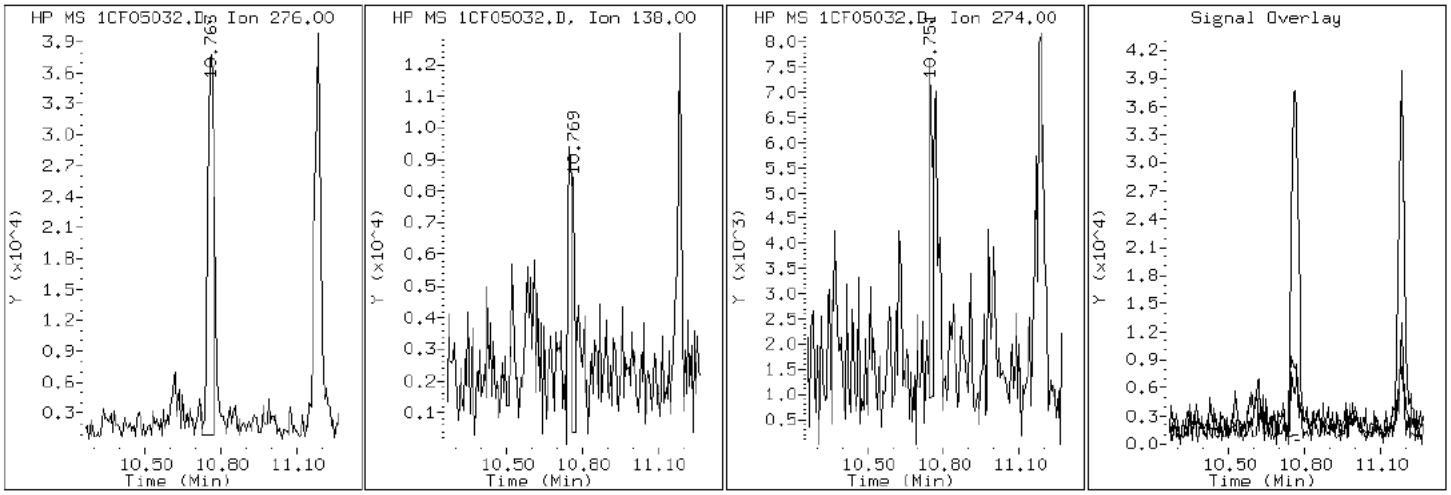
Data File: 1CF05032.D

Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a Operator: SCC

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



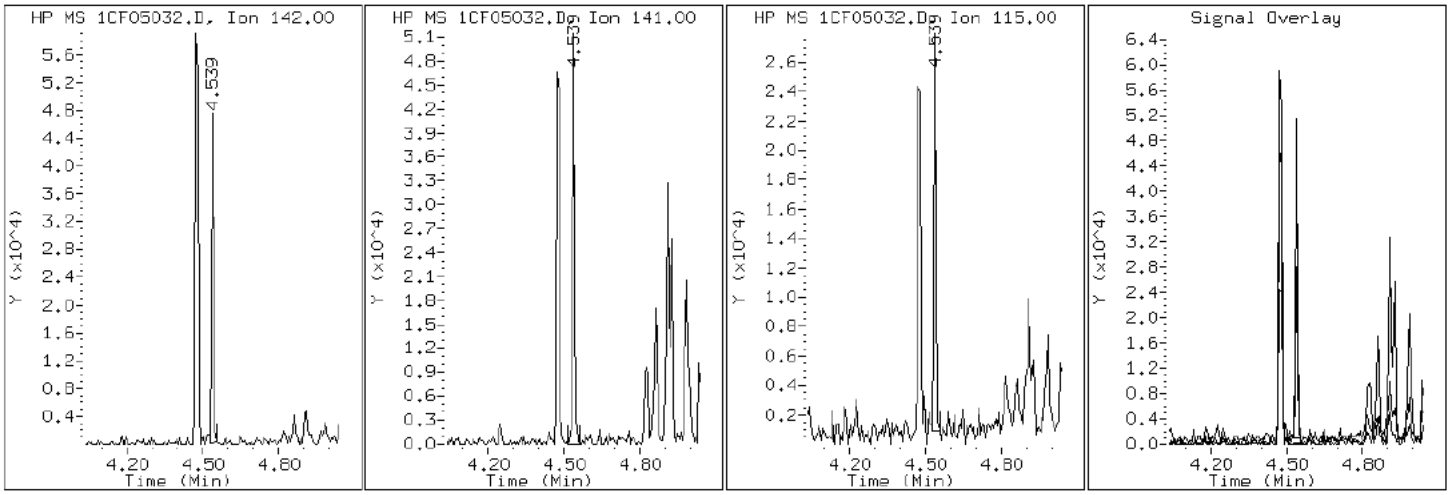
Data File: 1CF05032.D

Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a Operator: SCC

4 1-Methylnaphthalene



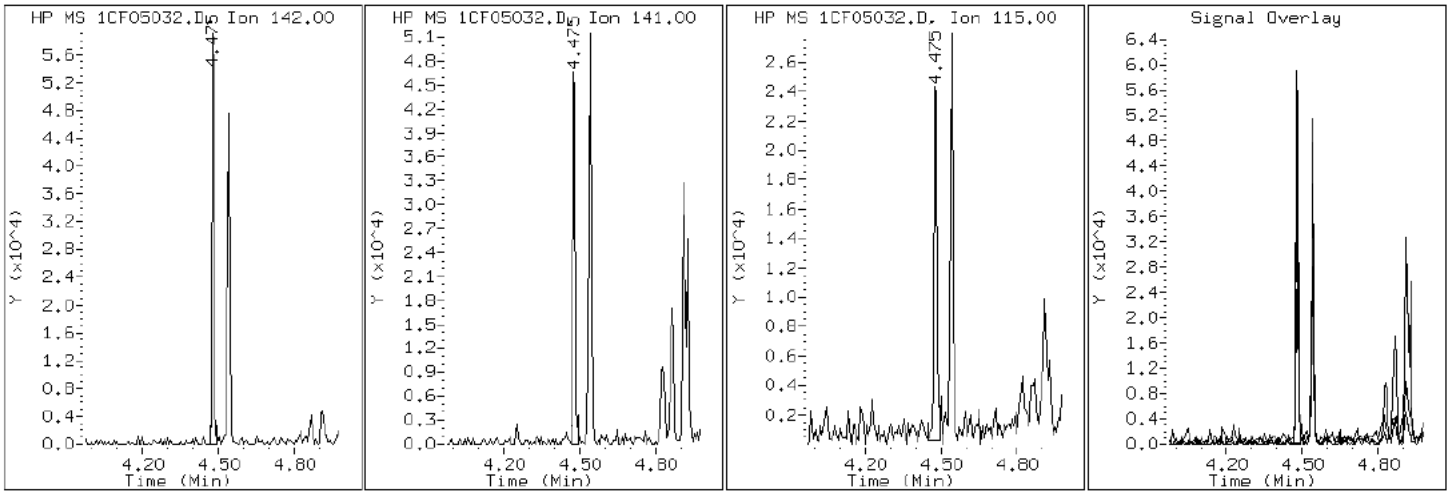
Data File: 1CF05032.D

Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a Operator: SCC

3 2-Methylnaphthalene



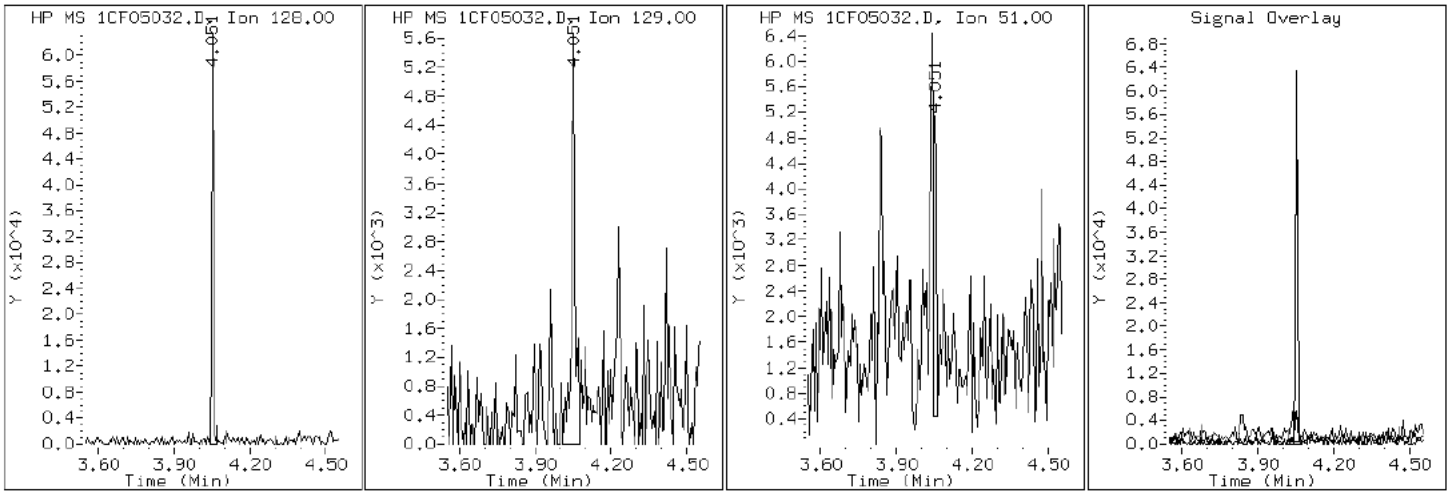
Data File: 1CF05032.D

Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a Operator: SCC

2 Naphthalene



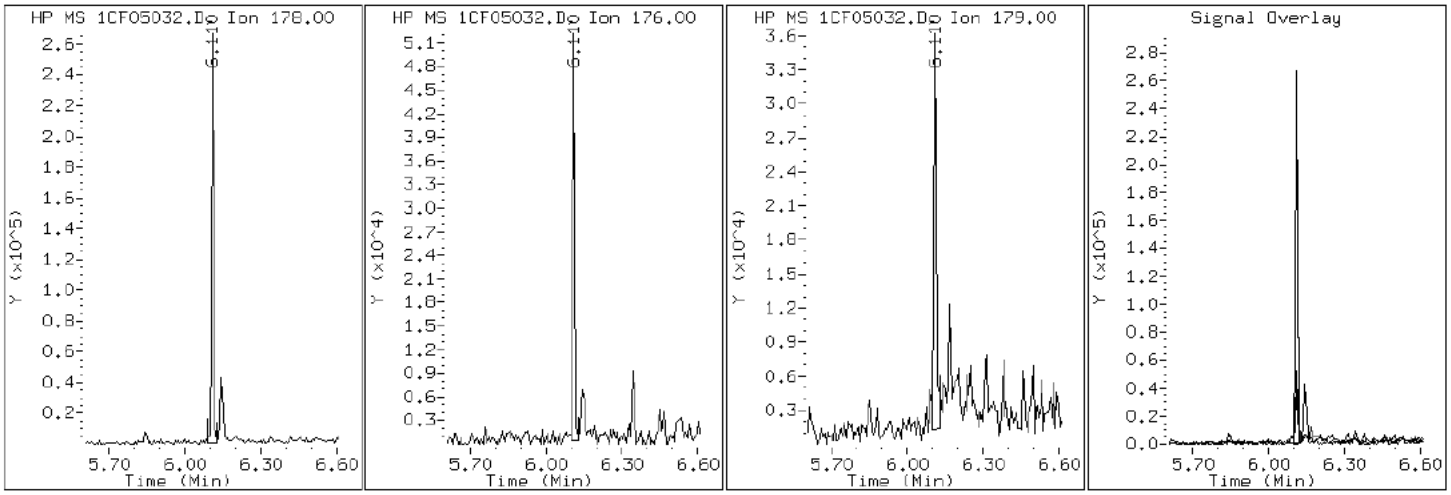
Data File: 1CF05032.D

Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a Operator: SCC

11 Phenanthrene



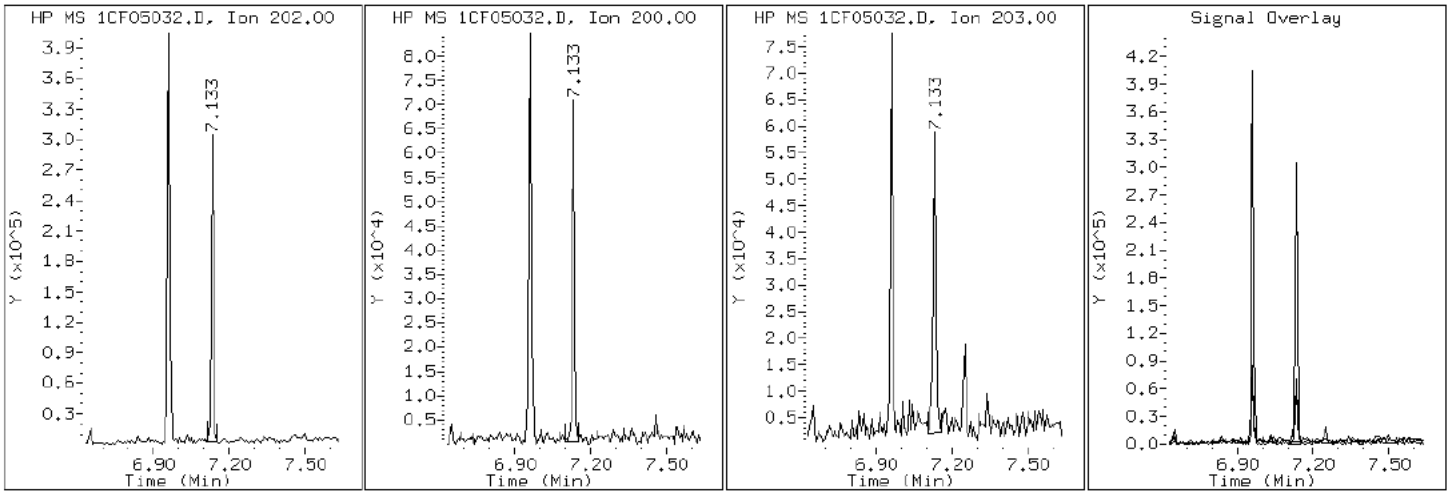
Data File: 1CF05032.D

Date: 05-JUN-2013 21:20

Client ID: CV1242A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-34-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF05032.D
Inj. Date and Time: 05-JUN-2013 21:20
Instrument ID: BSMC5973.i
Client ID: CV1242A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/06/2013

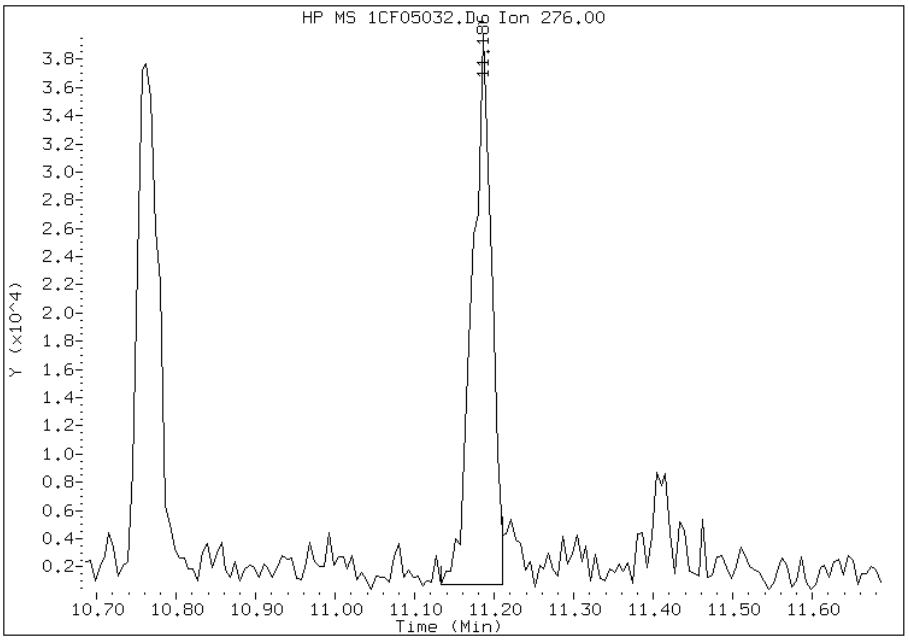
Processing Integration Results

RT: 11.19

Response: 66173

Amount: 1

Conc: 310



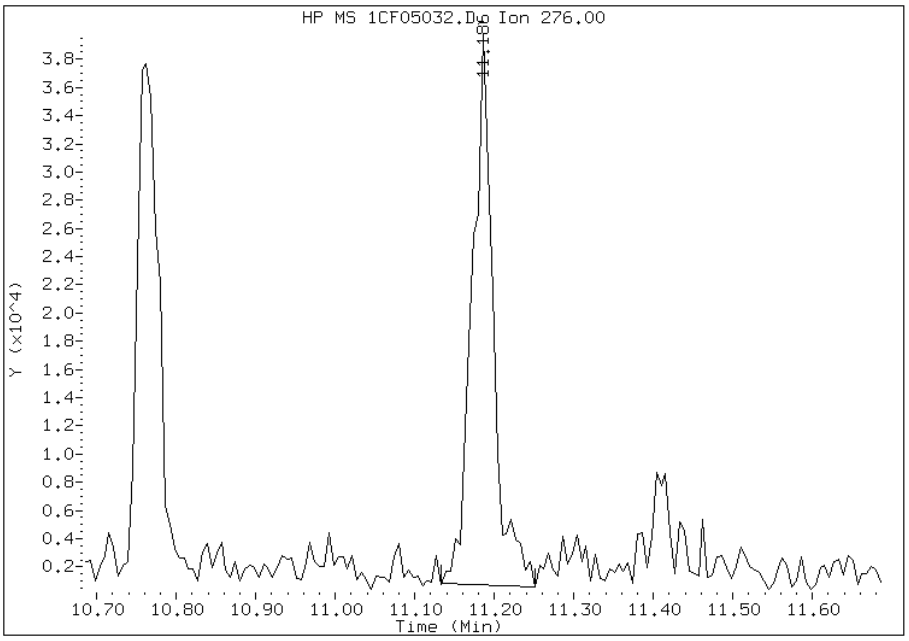
Manual Integration Results

RT: 11.19

Response: 72470

Amount: 1

Conc: 340



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF05032.D
Inj. Date and Time: 05-JUN-2013 21:20
Instrument ID: BSMC5973.i
Client ID: CV1242A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

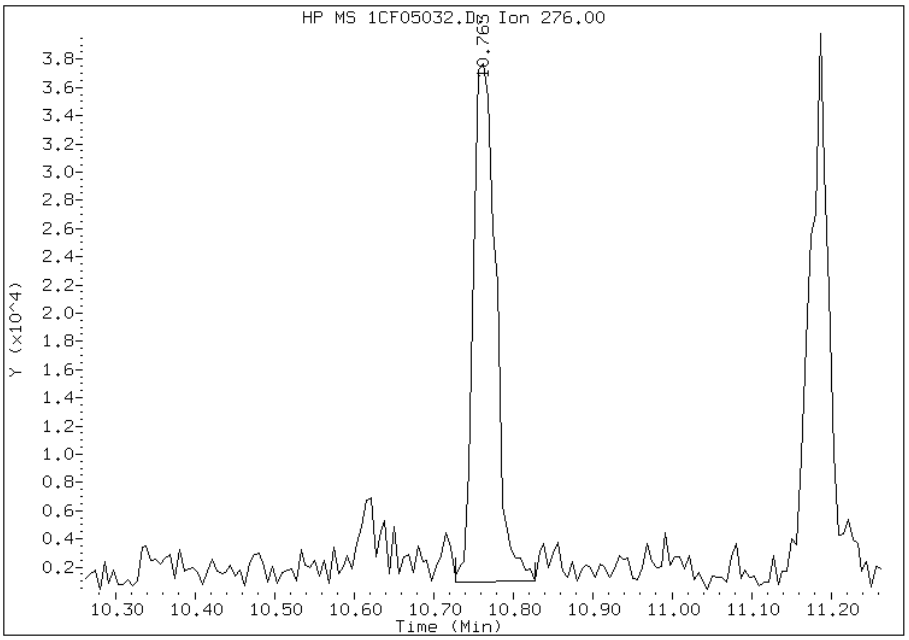
Processing Integration Results

RT: 10.76

Response: 71889

Amount: 1

Conc: 345



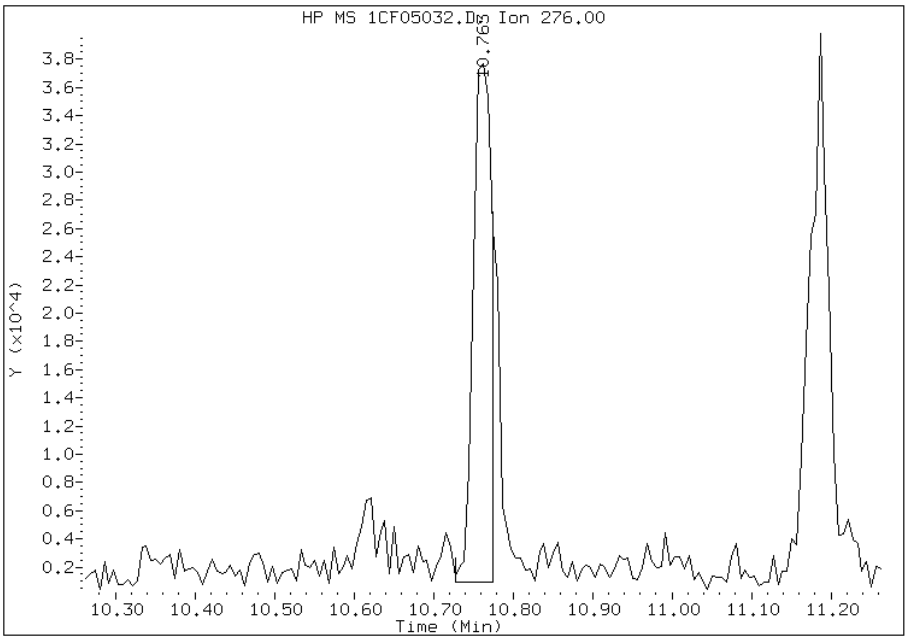
Manual Integration Results

RT: 10.76

Response: 58549

Amount: 1

Conc: 291



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV1242A-CSD | Lab Sample ID: 680-90723-35

Matrix: Solid | Lab File ID: 1CF05033.D

Analysis Method: 8270C LL | Date Collected: 05/24/2013 08:35

Extract. Method: 3546 | Date Extracted: 06/03/2013 13:04

Sample wt/vol: 15.07(g) | Date Analyzed: 06/05/2013 21:39

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

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

% Moisture: 22.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	55	J	200	26
120-12-7	Anthracene	55		43	21
56-55-3	Benzo[a]anthracene	380		41	20
50-32-8	Benzo[a]pyrene	360		53	27
205-99-2	Benzo[b]fluoranthene	590		62	31
191-24-2	Benzo[g,h,i]perylene	270		100	23
207-08-9	Benzo[k]fluoranthene	180		41	18
218-01-9	Chrysene	420		46	23
53-70-3	Dibenz(a,h)anthracene	75	J	100	21
206-44-0	Fluoranthene	690		100	20
86-73-7	Fluorene	28	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	240		100	36
90-12-0	1-Methylnaphthalene	340		200	23
91-57-6	2-Methylnaphthalene	240		200	36
91-20-3	Naphthalene	110	J	200	23
85-01-8	Phenanthrene	440		41	20
129-00-0	Pyrene	550		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05033.D
Lab Smp Id: 680-90723-A-35-A Client Smp ID: CV1242A-CSD
Inj Date : 05-JUN-2013 21:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-35-a
Misc Info : 680-90723-A-35-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 33
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	15.070	Weight Extracted
M	22.199	% 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	4.039	4.039	(1.000)	2155390	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1558553	40.0000	
* 10 Phenanthrene-d10	188	6.098	6.092	(1.000)	2896736	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.041)	89125	1.97512	673.8398
* 18 Chrysene-d12	240	8.056	8.056	(1.000)	3249246	40.0000	
* 23 Perylene-d12	264	9.392	9.392	(1.000)	2940077	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	19499	0.32058	109.3688
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	23797	0.70535	240.6407
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	32720	0.98574	336.2970
5 Acenaphthylene	152	5.033	5.039	(0.982)	9562	0.16004	54.5992
9 Fluorene	166	5.468	5.468	(1.067)	3905	0.08168	27.8668(Q)
11 Phenanthrene	178	6.109	6.110	(1.002)	111315	1.30069	443.7463
12 Anthracene	178	6.145	6.145	(1.008)	12884	0.16250	55.4390
13 Carbazole	167	6.251	6.251	(1.025)	12597	0.28495	97.2136

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.962	6.962	(1.142)	177667	2.03103	692.9133
16 Pyrene	202	7.133	7.133	(0.885)	141996	1.61838	552.1310
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	100801	1.12506	383.8285
19 Chrysene	228	8.074	8.074	(1.002)	109935	1.21869	415.7734
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	125022	1.73074	590.4647
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.959)	42337	0.52475	179.0259
22 Benzo(a)pyrene	252	9.327	9.327	(0.993)	70057	1.04908	357.9090
24 Indeno(1,2,3-cd)pyrene	276	10.756	10.768	(1.145)	42088	0.69368	236.6566(M)
25 Dibenzo(a,h)anthracene	278	10.786	10.786	(1.148)	13736	0.21889	74.6771(M)
26 Benzo(g,h,i)perylene	276	11.186	11.186	(1.191)	54179	0.79322	270.6178

QC Flag Legend

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

Data File: 1CF05033.D

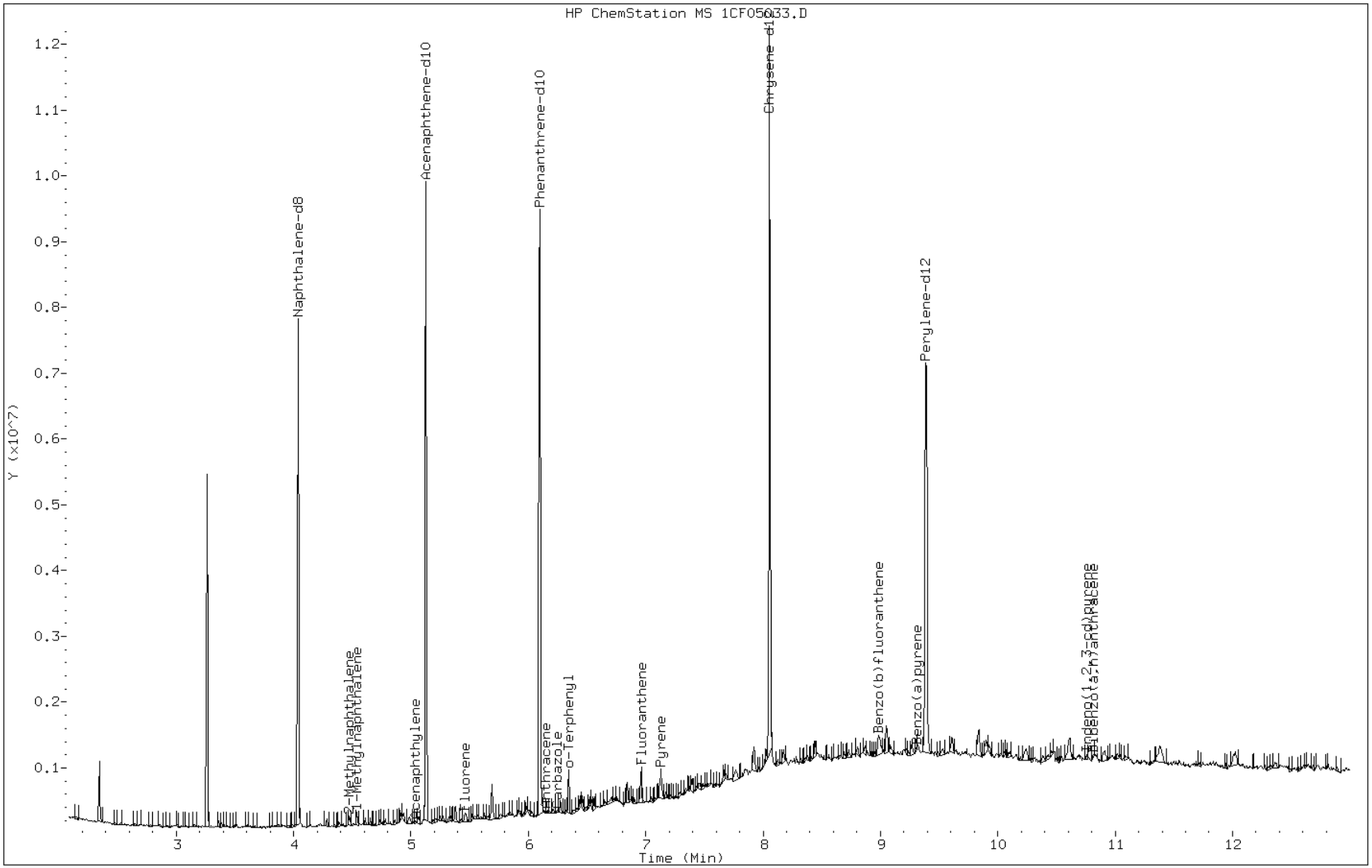
Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD

Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a

Operator: SCC



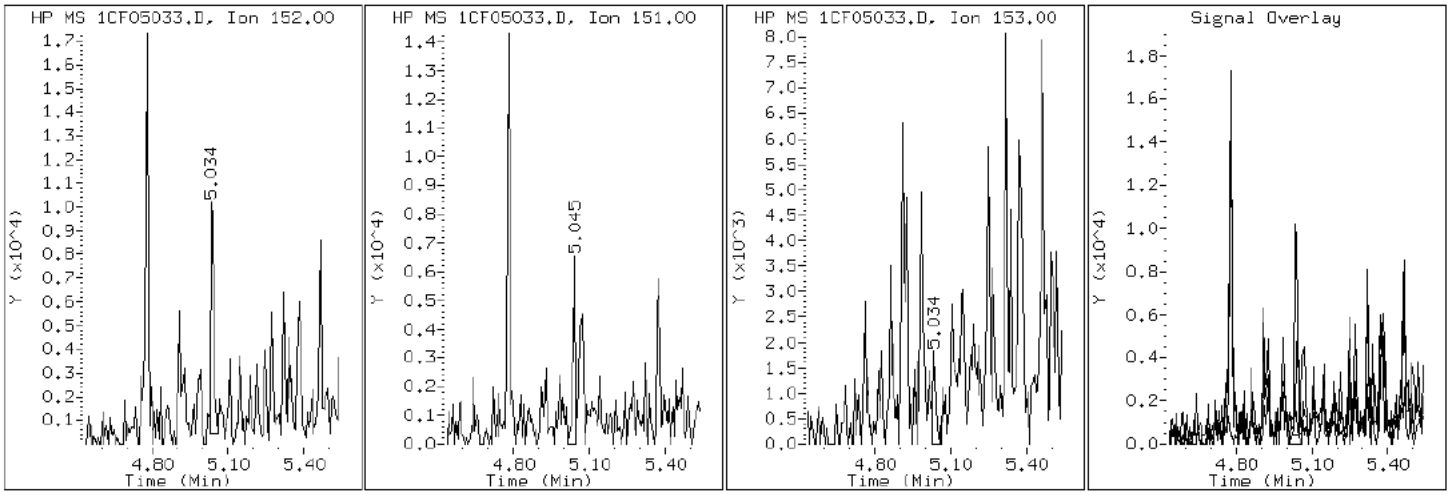
Data File: 1CF05033.D

Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a Operator: SCC

5 Acenaphthylene



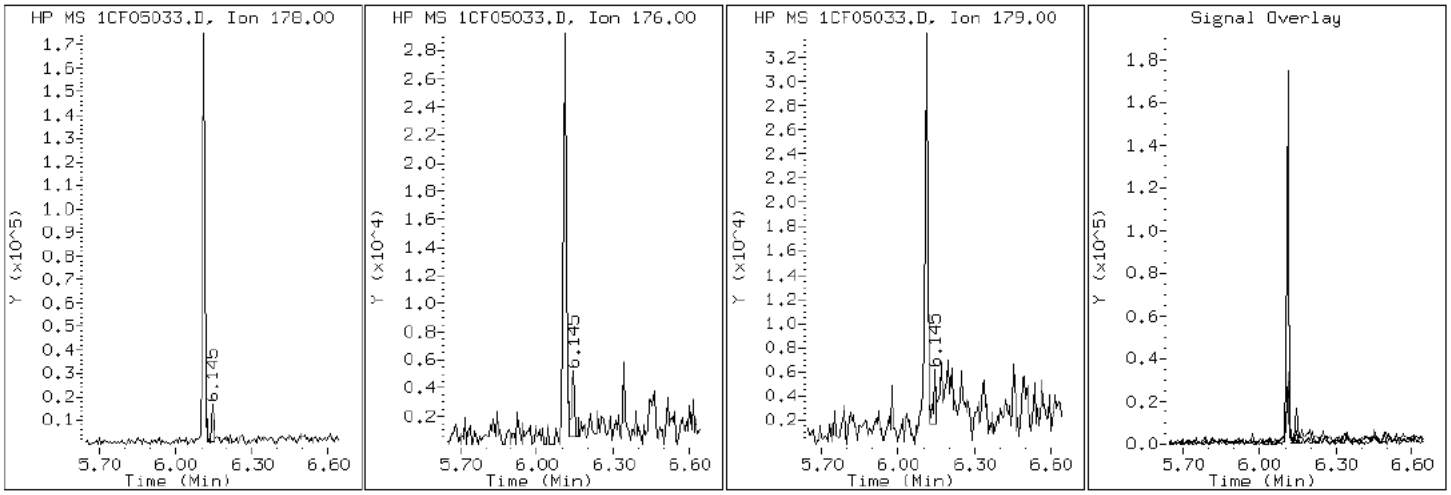
Data File: 1CF05033.D

Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a Operator: SCC

12 Anthracene



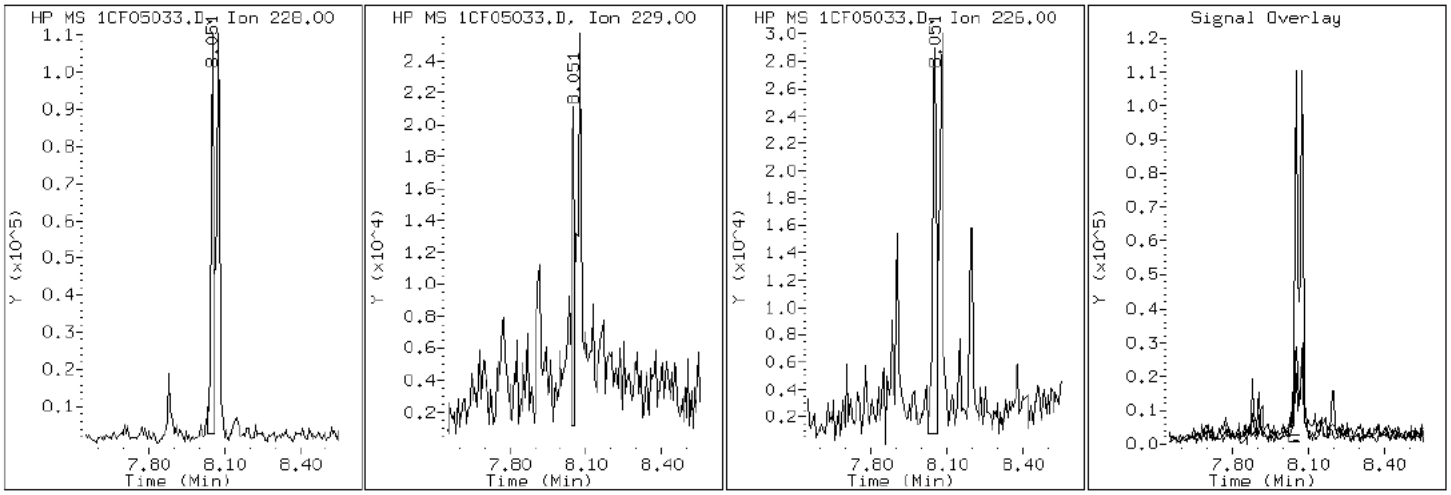
Data File: 1CF05033.D

Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a Operator: SCC

17 Benzo(a)anthracene



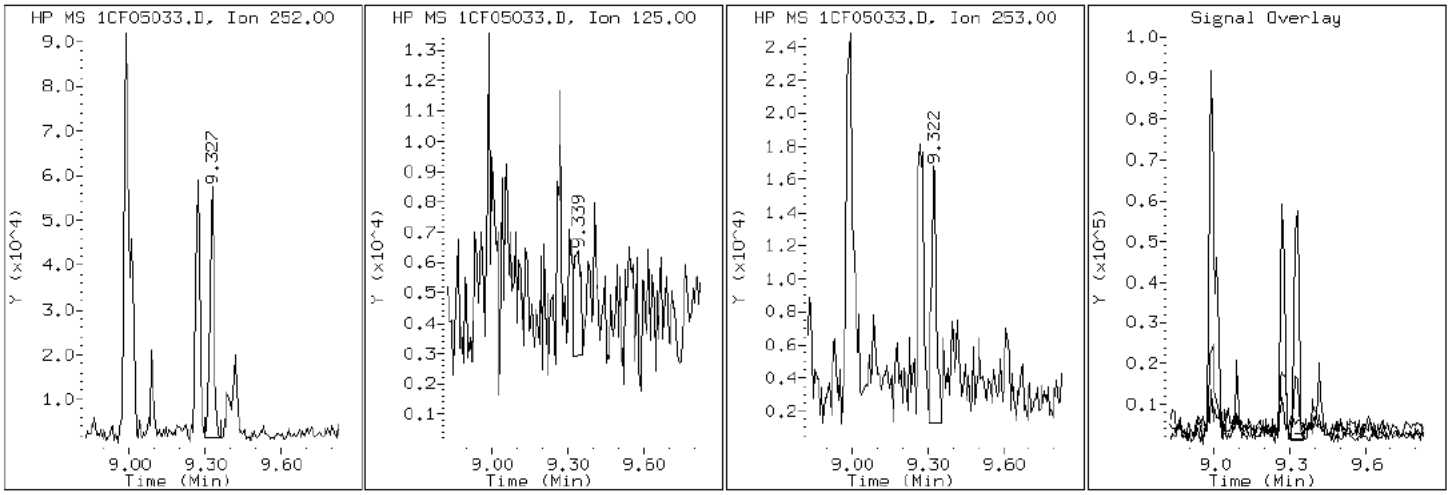
Data File: 1CF05033.D

Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a Operator: SCC

22 Benzo(a)pyrene



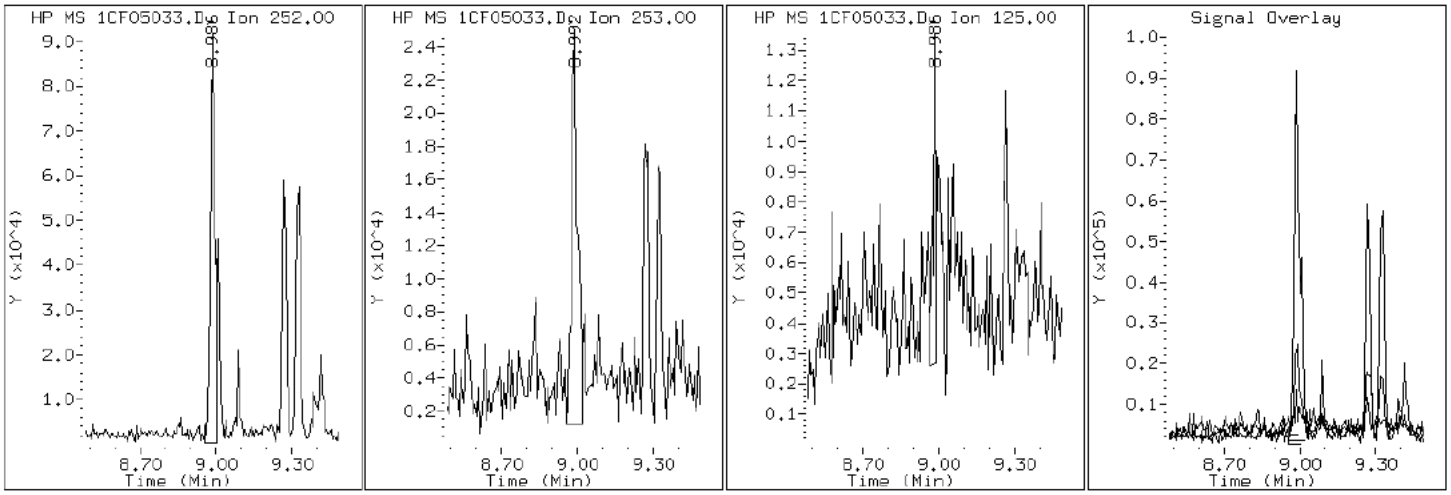
Data File: 1CF05033.D

Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a Operator: SCC

20 Benzo(b)fluoranthene



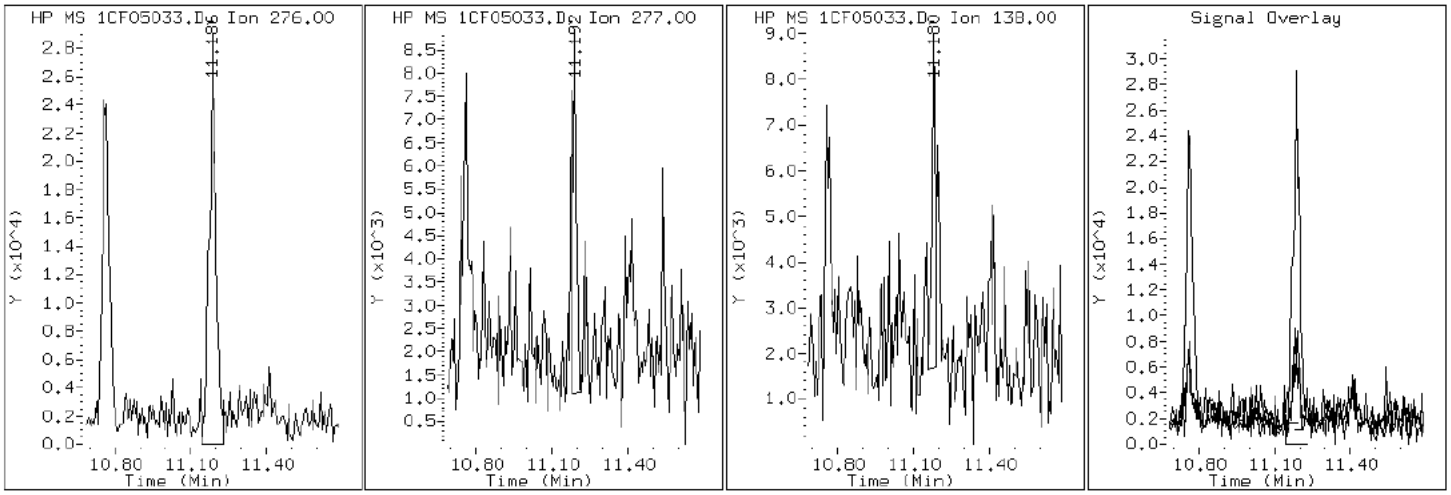
Data File: 1CF05033.D

Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a Operator: SCC

26 Benzo(g,h,i)perylene



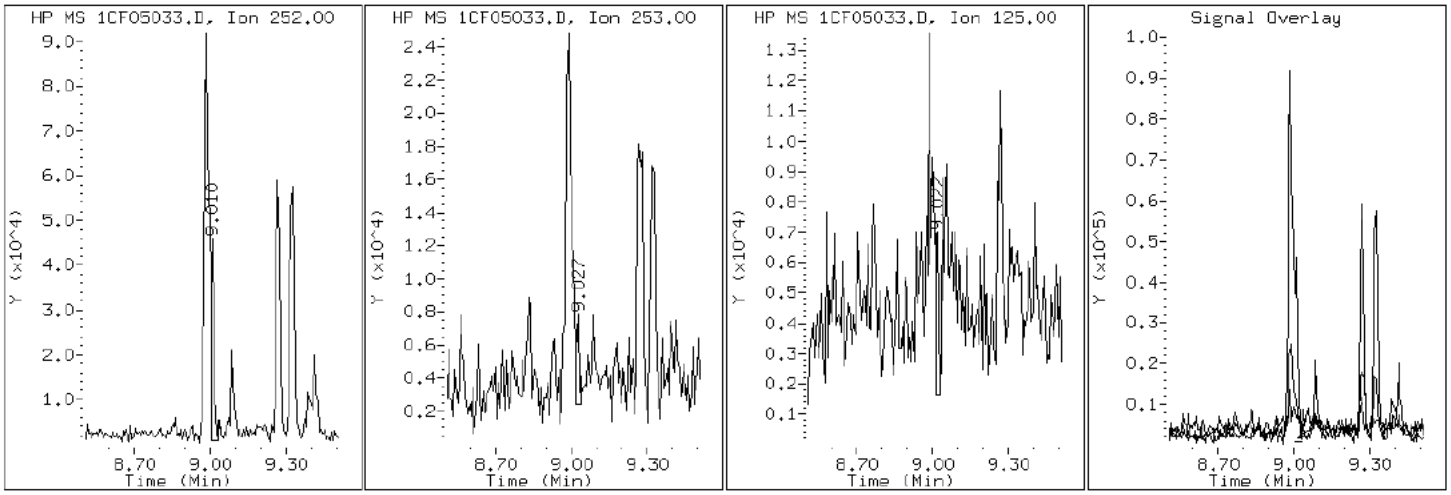
Data File: 1CF05033.D

Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a Operator: SCC

21 Benzo(k)fluoranthene



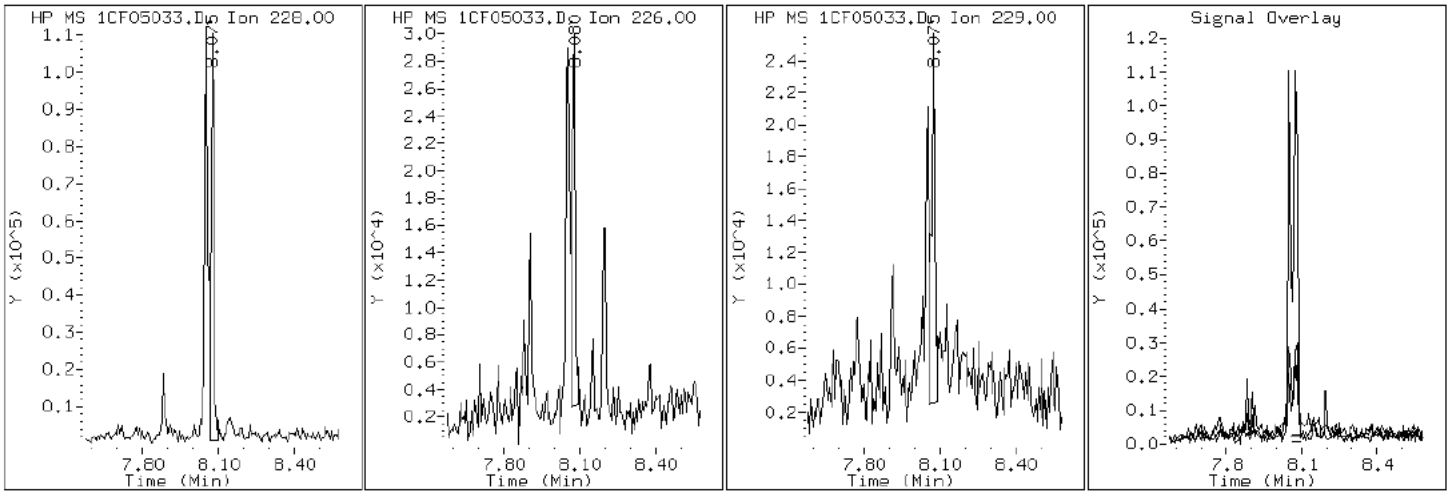
Data File: 1CF05033.D

Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a Operator: SCC

19 Chrysene



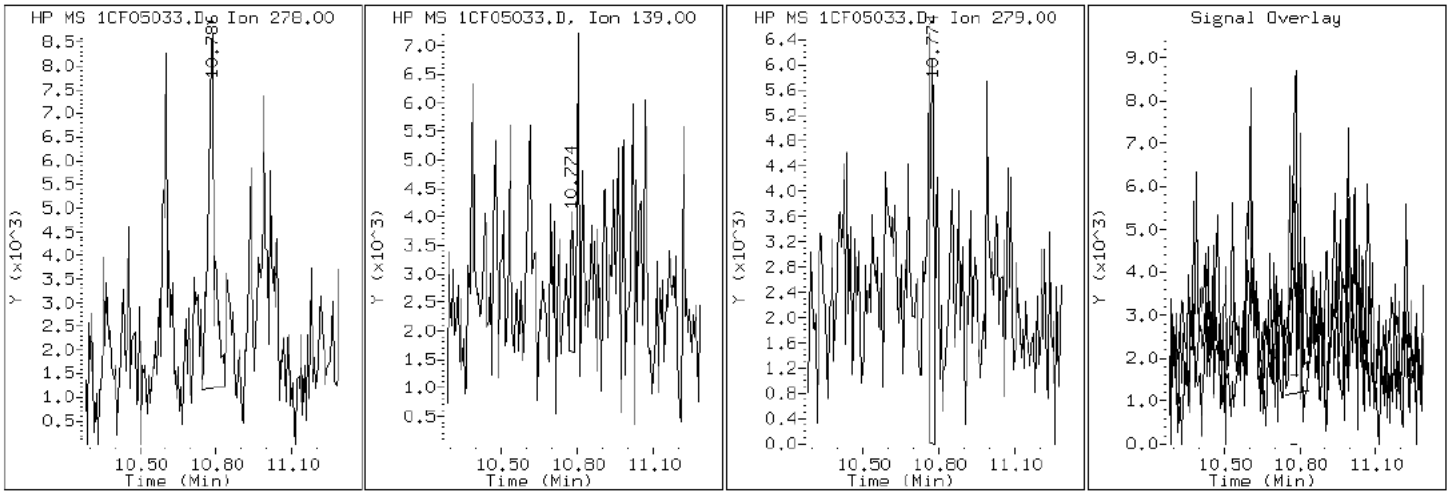
Data File: 1CF05033.D

Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a Operator: SCC

25 Dibenzo(a,h)anthracene



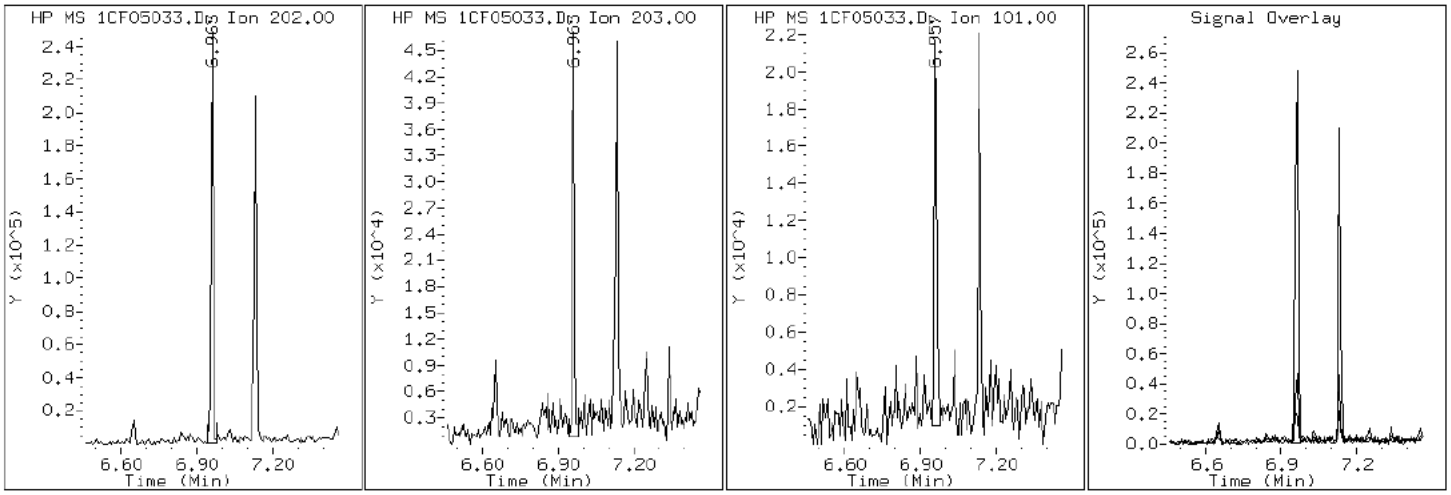
Data File: 1CF05033.D

Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a Operator: SCC

15 Fluoranthene



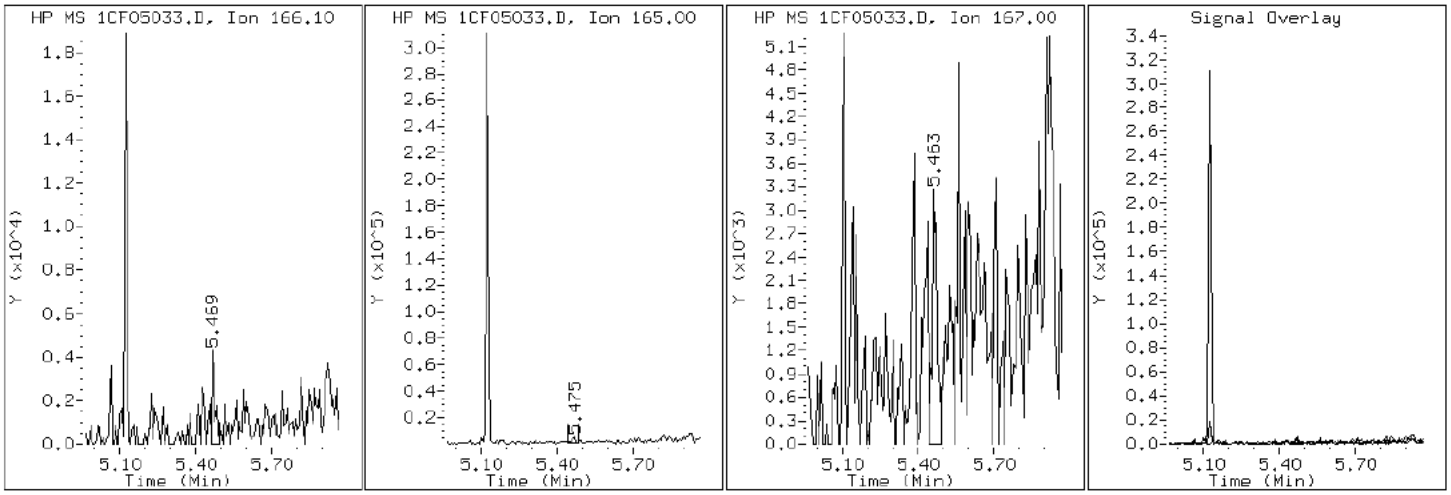
Data File: 1CF05033.D

Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a Operator: SCC

9 Fluorene



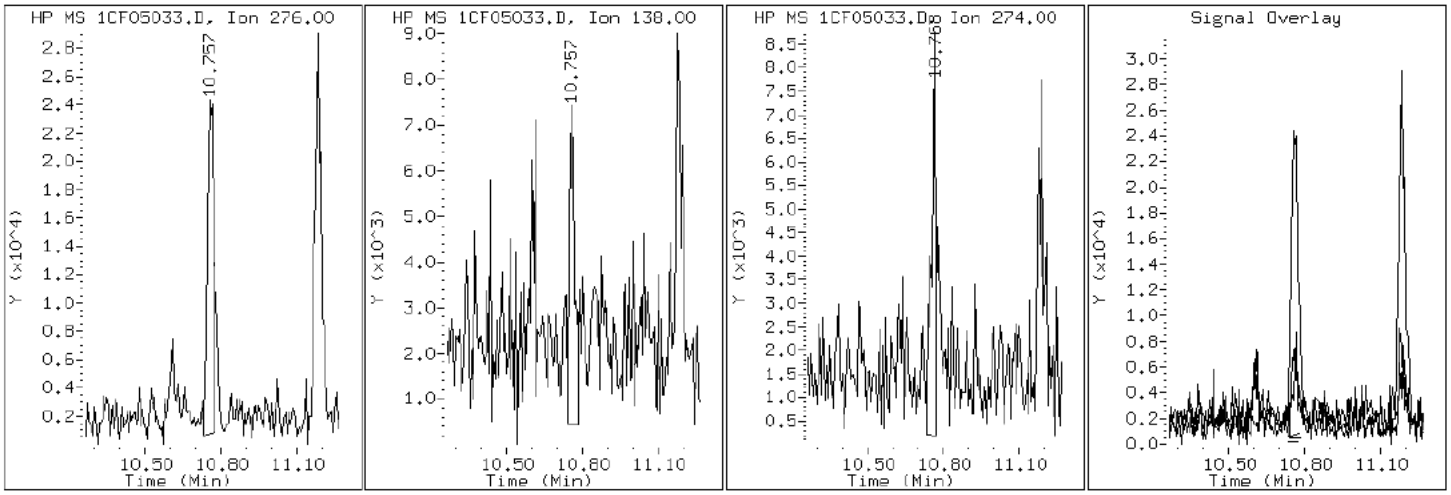
Data File: 1CF05033.D

Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a Operator: SCC

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



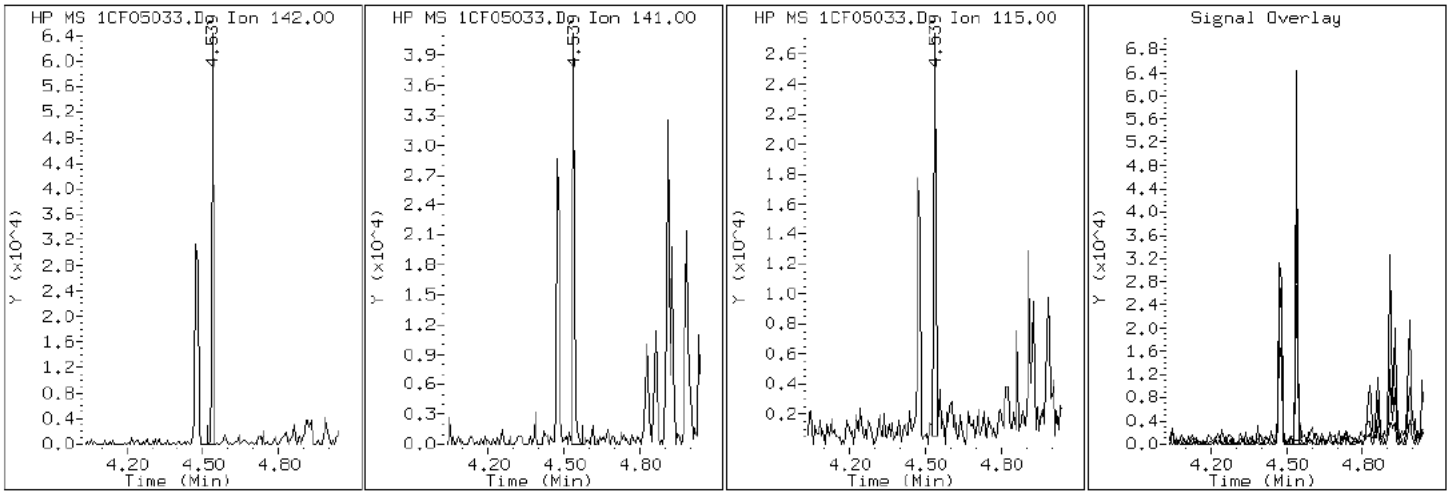
Data File: 1CF05033.D

Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a Operator: SCC

4 1-Methylnaphthalene



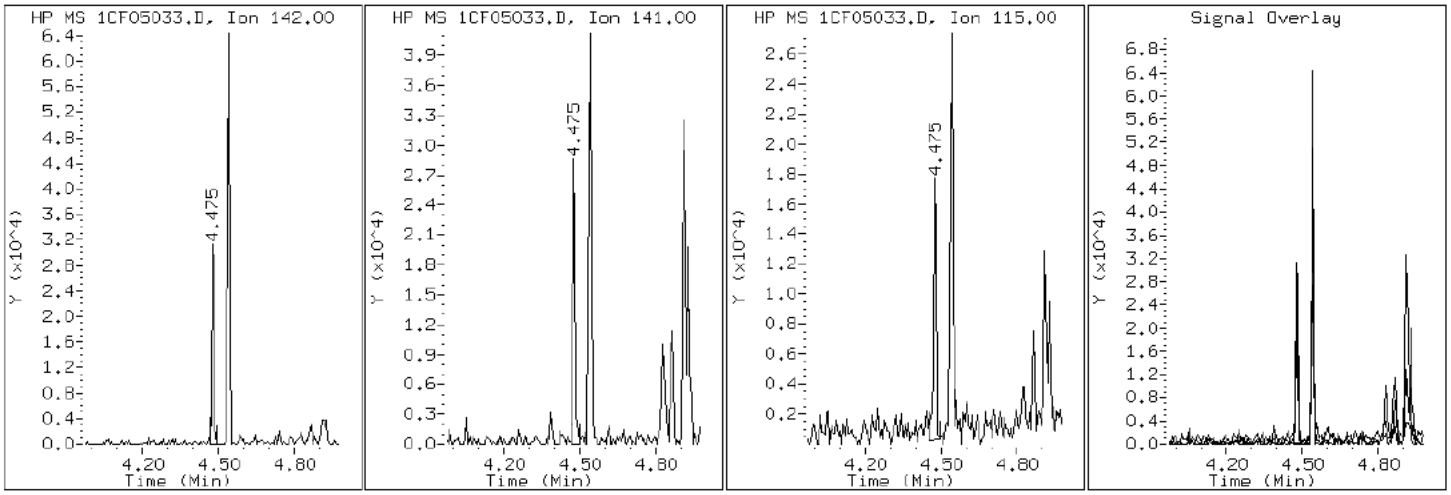
Data File: 1CF05033.D

Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a Operator: SCC

3 2-Methylnaphthalene



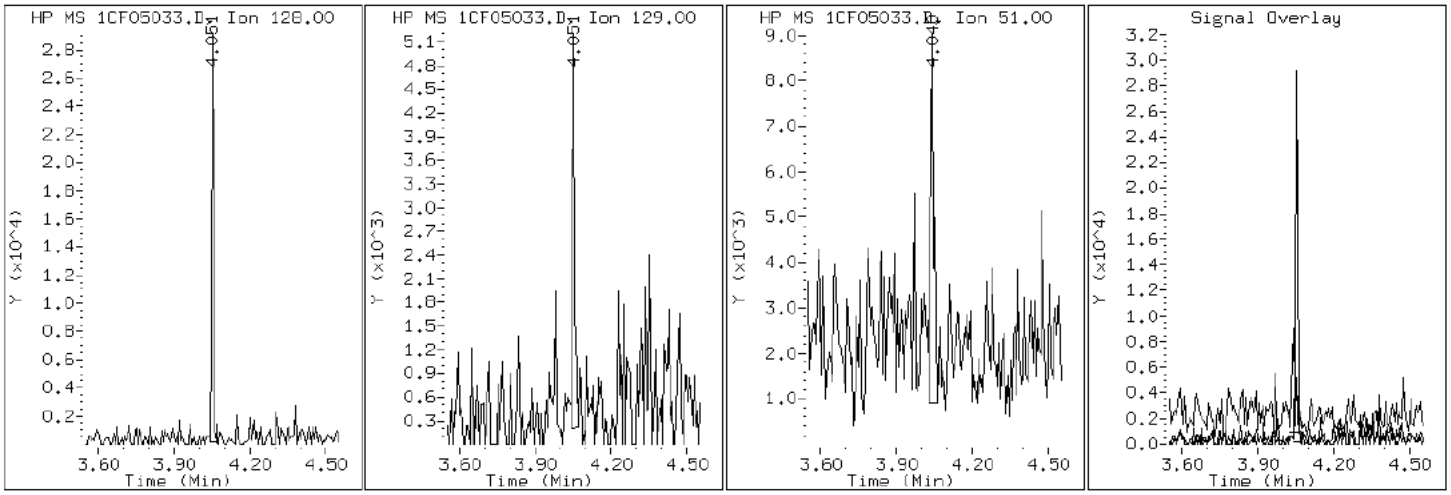
Data File: 1CF05033.D

Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a Operator: SCC

2 Naphthalene



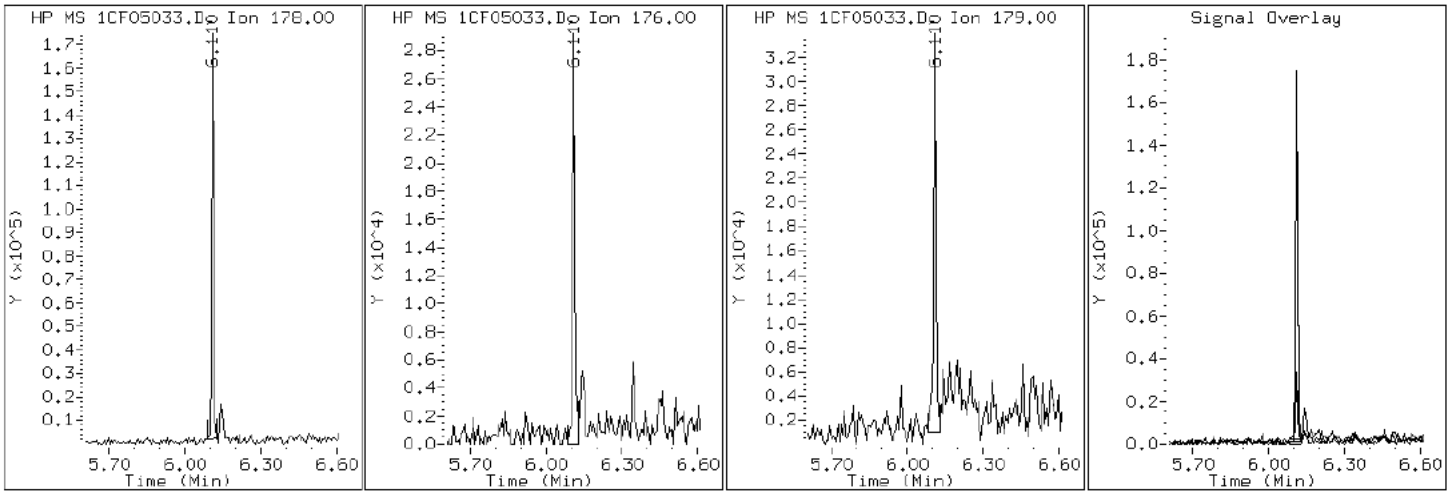
Data File: 1CF05033.D

Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a Operator: SCC

11 Phenanthrene



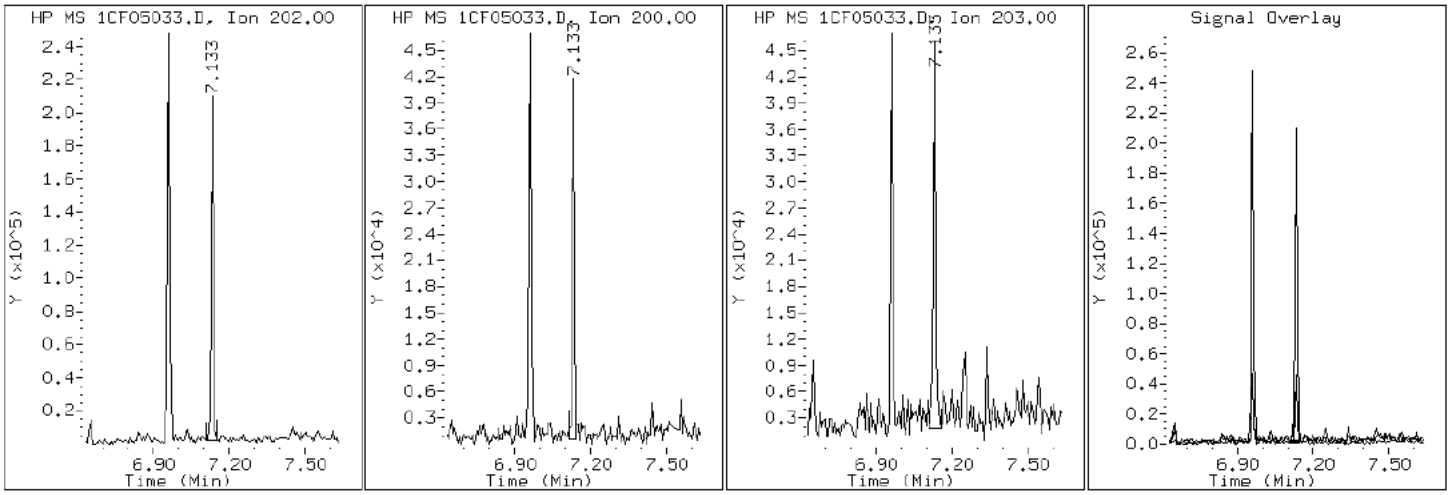
Data File: 1CF05033.D

Date: 05-JUN-2013 21:39

Client ID: CV1242A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-35-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF05033.D
Inj. Date and Time: 05-JUN-2013 21:39
Instrument ID: BSMC5973.i
Client ID: CV1242A-CSD
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/06/2013

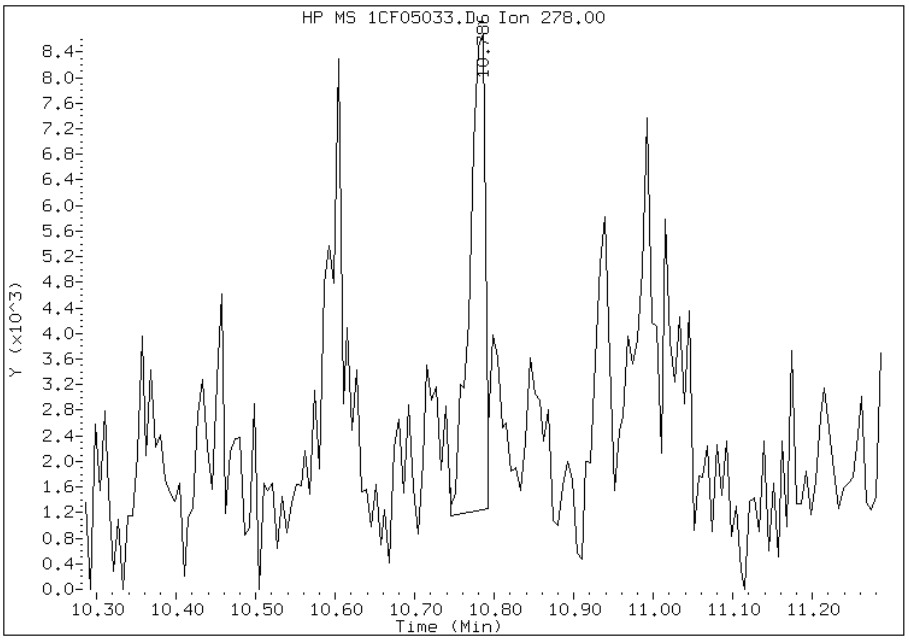
Processing Integration Results

RT: 10.79

Response: 10268

Amount: 0

Conc: 56



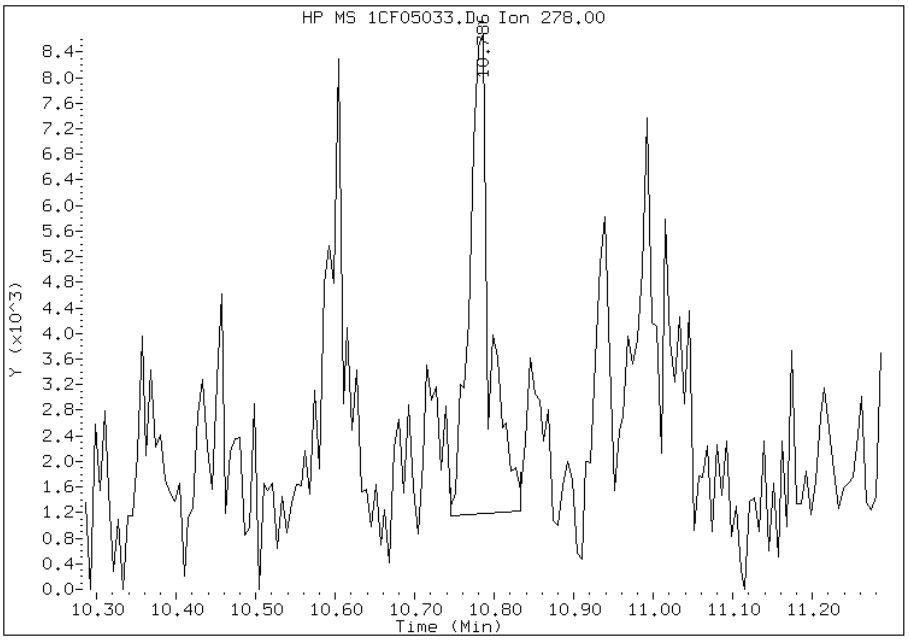
Manual Integration Results

RT: 10.79

Response: 13736

Amount: 0

Conc: 75



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF05033.D
Inj. Date and Time: 05-JUN-2013 21:39
Instrument ID: BSMC5973.i
Client ID: CV1242A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

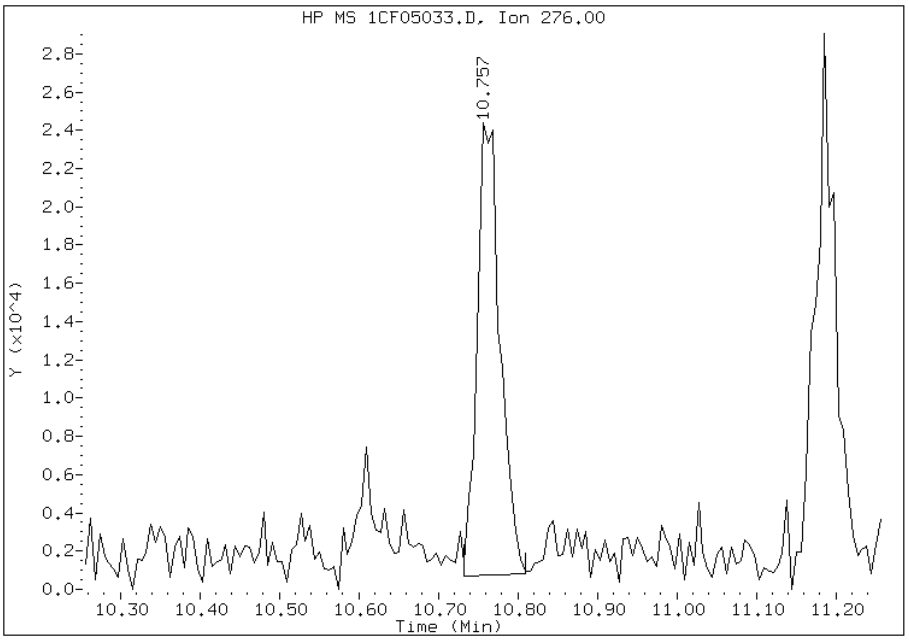
Processing Integration Results

RT: 10.76

Response: 47400

Amount: 1

Conc: 260



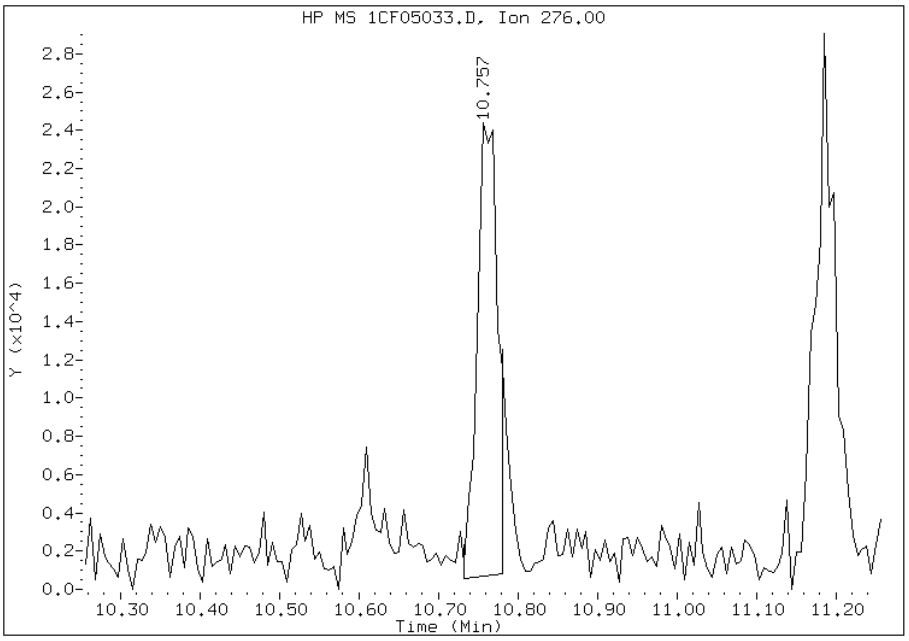
Manual Integration Results

RT: 10.76

Response: 42088

Amount: 1

Conc: 237



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:36
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV1242B-CS | Lab Sample ID: 680-90723-36

Matrix: Solid | Lab File ID: 1CF05034.D

Analysis Method: 8270C LL | Date Collected: 05/24/2013 08:43

Extract. Method: 3546 | Date Extracted: 06/03/2013 13:04

Sample wt/vol: 15.20(g) | Date Analyzed: 06/05/2013 21:57

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

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

% Moisture: 15.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	470	U	470	93
208-96-8	Acenaphthylene	34	J	190	23
120-12-7	Anthracene	51		39	20
56-55-3	Benzo[a]anthracene	200		37	18
50-32-8	Benzo[a]pyrene	170		48	24
205-99-2	Benzo[b]fluoranthene	270		57	28
191-24-2	Benzo[g,h,i]perylene	180		93	21
207-08-9	Benzo[k]fluoranthene	61		37	17
218-01-9	Chrysene	240		42	21
53-70-3	Dibenz(a,h)anthracene	55	J	93	19
206-44-0	Fluoranthene	280		93	19
86-73-7	Fluorene	21	J	93	19
193-39-5	Indeno[1,2,3-cd]pyrene	120		93	33
90-12-0	1-Methylnaphthalene	600		190	21
91-57-6	2-Methylnaphthalene	850		190	33
91-20-3	Naphthalene	440		190	21
85-01-8	Phenanthrene	460		37	18
129-00-0	Pyrene	250		93	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05034.D
Lab Smp Id: 680-90723-A-36-A Client Smp ID: CV1242B-CS
Inj Date : 05-JUN-2013 21:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-36-a
Misc Info : 680-90723-A-36-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 34
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	15.292	% 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	4.039	4.039	(1.000)	2260275	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1588080	40.0000	
* 10 Phenanthrene-d10	188	6.098	6.092	(1.000)	2896848	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.041)	96782	2.14473	666.2897
* 18 Chrysene-d12	240	8.056	8.056	(1.000)	3191993	40.0000	
* 23 Perylene-d12	264	9.392	9.392	(1.000)	3000883	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	90158	1.41347	439.1151
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	96283	2.72144	845.4527
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	67374	1.93555	601.3049
5 Acenaphthylene	152	5.039	5.039	(0.983)	6707	0.11017	34.2250
9 Fluorene	166	5.468	5.468	(1.067)	3262	0.06696	20.8030(Q)
11 Phenanthrene	178	6.109	6.110	(1.002)	128027	1.49590	464.7228
12 Anthracene	178	6.145	6.145	(1.008)	12973	0.16362	50.8296
13 Carbazole	167	6.251	6.251	(1.025)	14878	0.31574	98.0897

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.962	6.962	(1.142)	78317	0.89526	278.1247
16 Pyrene	202	7.133	7.133	(0.885)	69714	0.80881	251.2666
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	56291	0.63954	198.6828
19 Chrysene	228	8.074	8.074	(1.002)	68330	0.77106	239.5416
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	65175	0.88397	274.6163(M)
21 Benzo(k)fluoranthene	252	9.003	9.009	(0.959)	16078	0.19524	60.6548(QM)
22 Benzo(a)pyrene	252	9.321	9.327	(0.992)	32647	0.53373	165.8120
24 Indeno(1,2,3-cd)pyrene	276	10.762	10.768	(1.146)	17540	0.37697	117.1124(M)
25 Dibenzo(a,h)anthracene	278	10.768	10.786	(1.147)	11249	0.17563	54.5605(M)
26 Benzo(g,h,i)perylene	276	11.186	11.186	(1.191)	40658	0.58320	181.1796

QC Flag Legend

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

Data File: 1CF05034.D

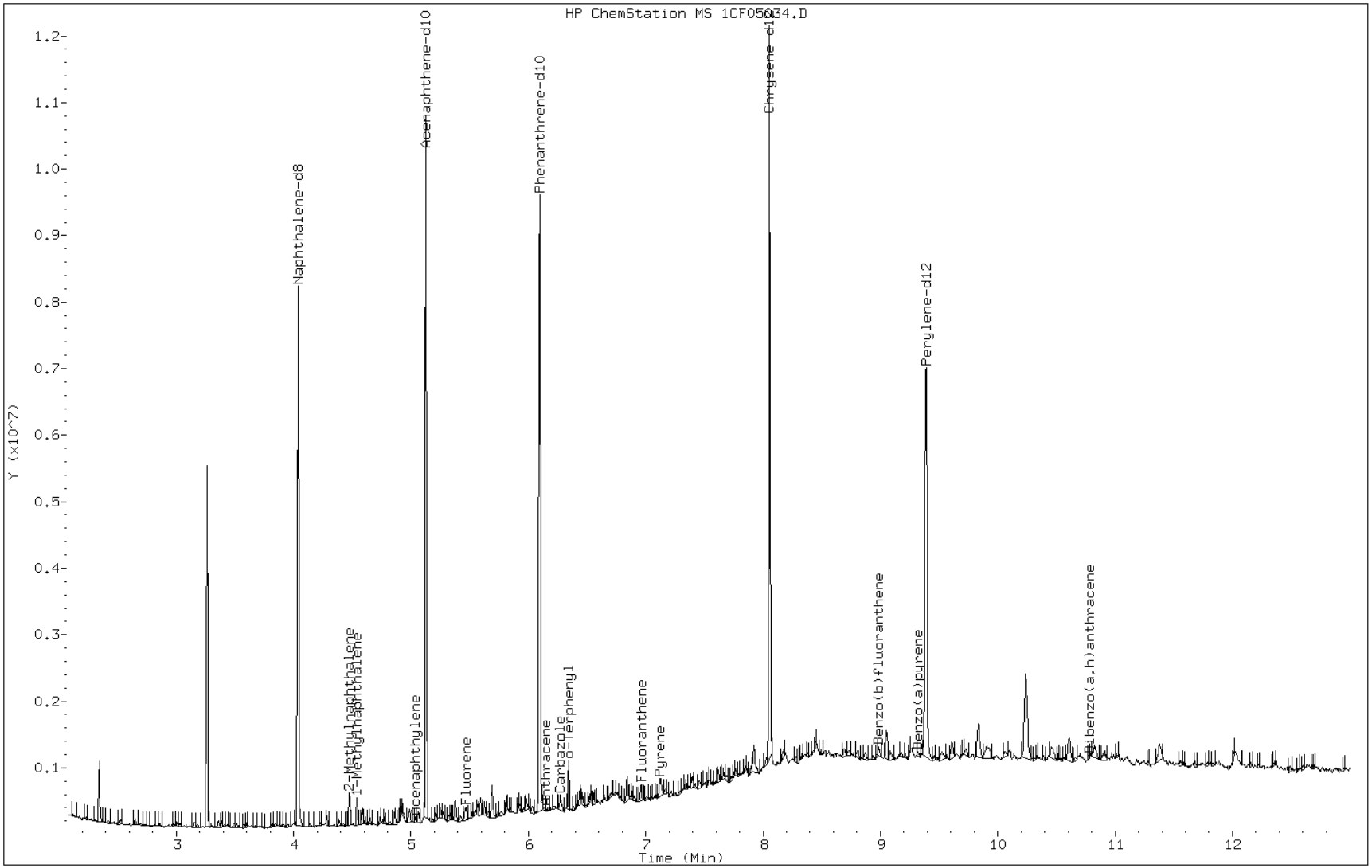
Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS

Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a

Operator: SCC



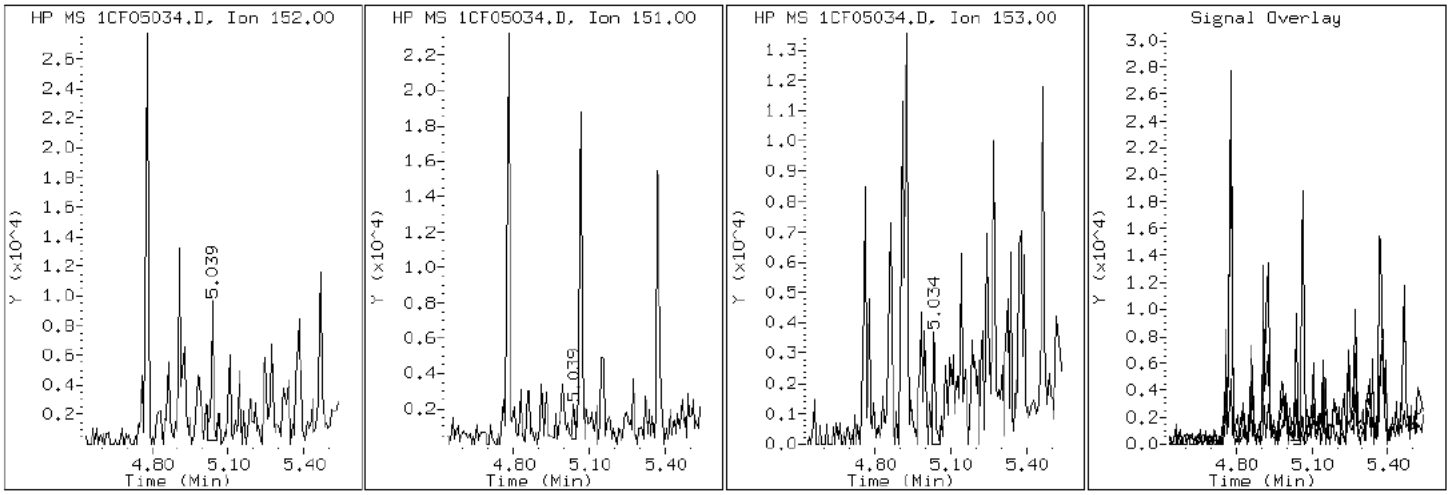
Data File: 1CF05034.D

Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a Operator: SCC

5 Acenaphthylene



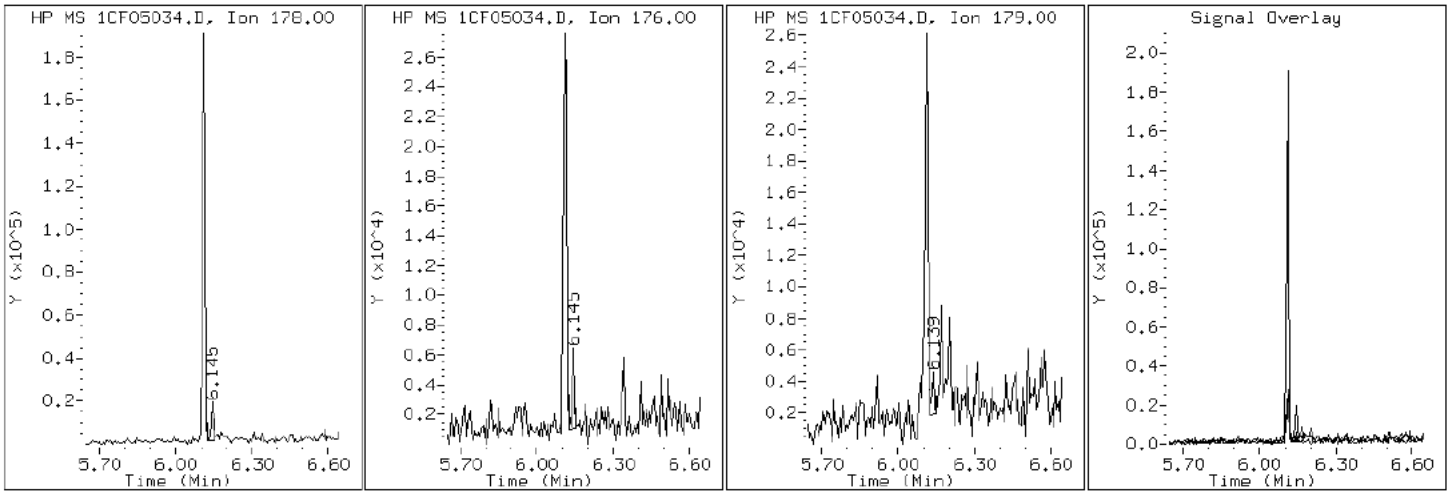
Data File: 1CF05034.D

Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a Operator: SCC

12 Anthracene



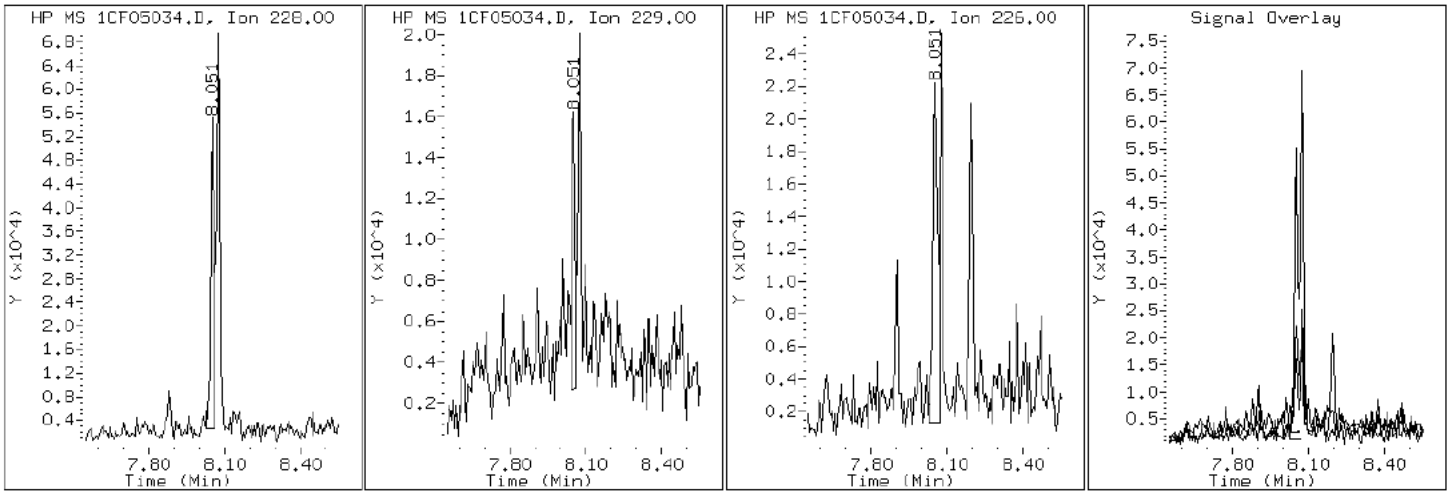
Data File: 1CF05034.D

Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a Operator: SCC

17 Benzo(a)anthracene



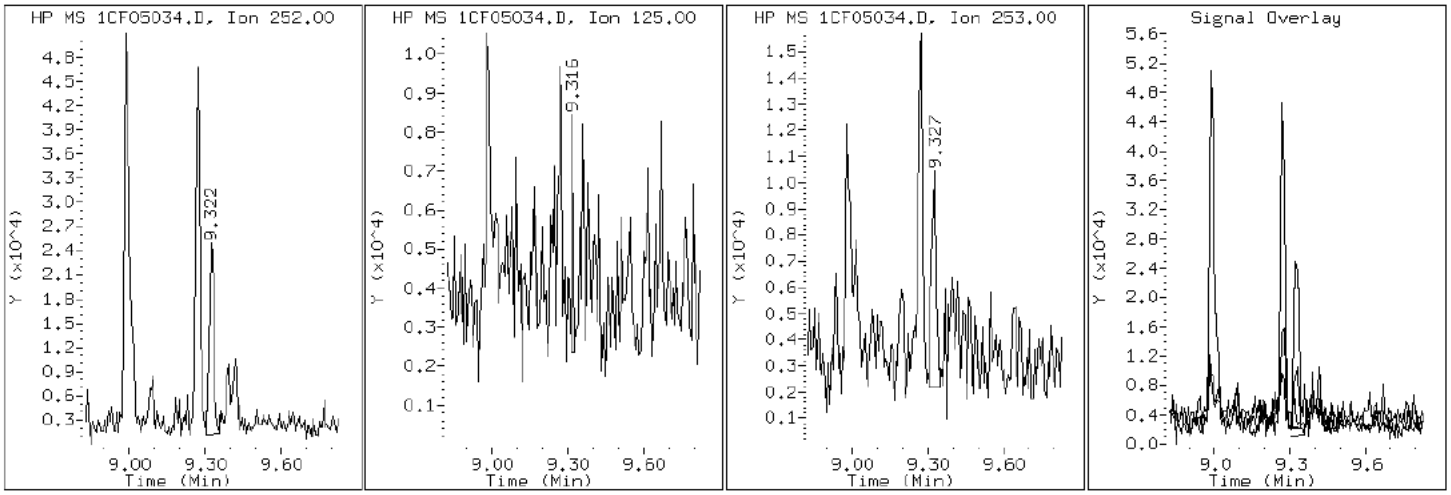
Data File: 1CF05034.D

Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a Operator: SCC

22 Benzo(a)pyrene



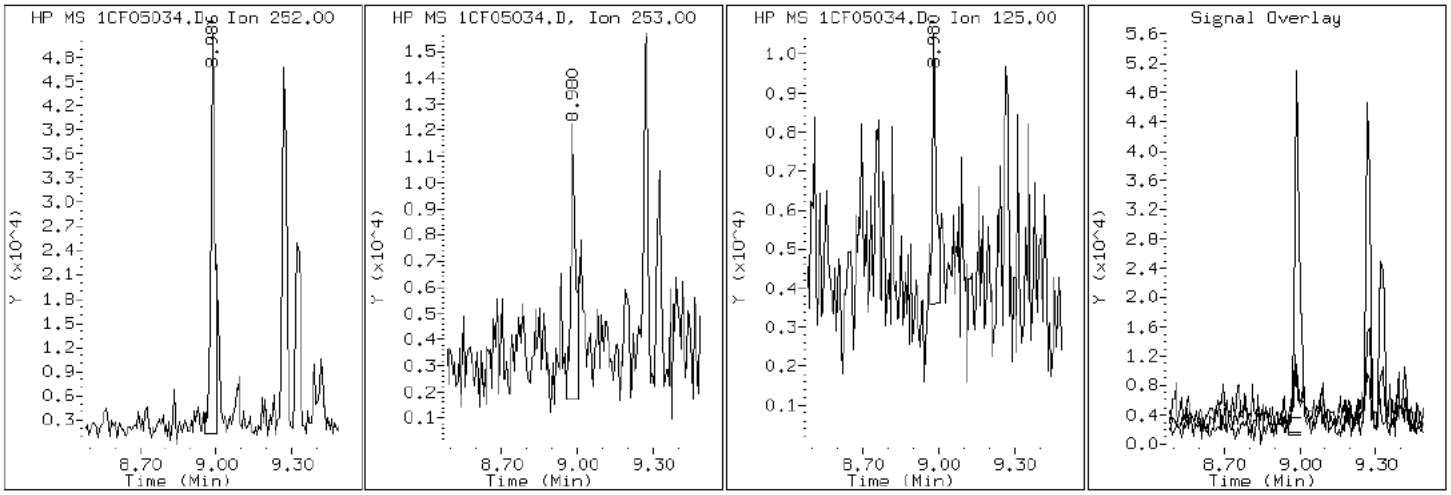
Data File: 1CF05034.D

Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a Operator: SCC

20 Benzo(b)fluoranthene



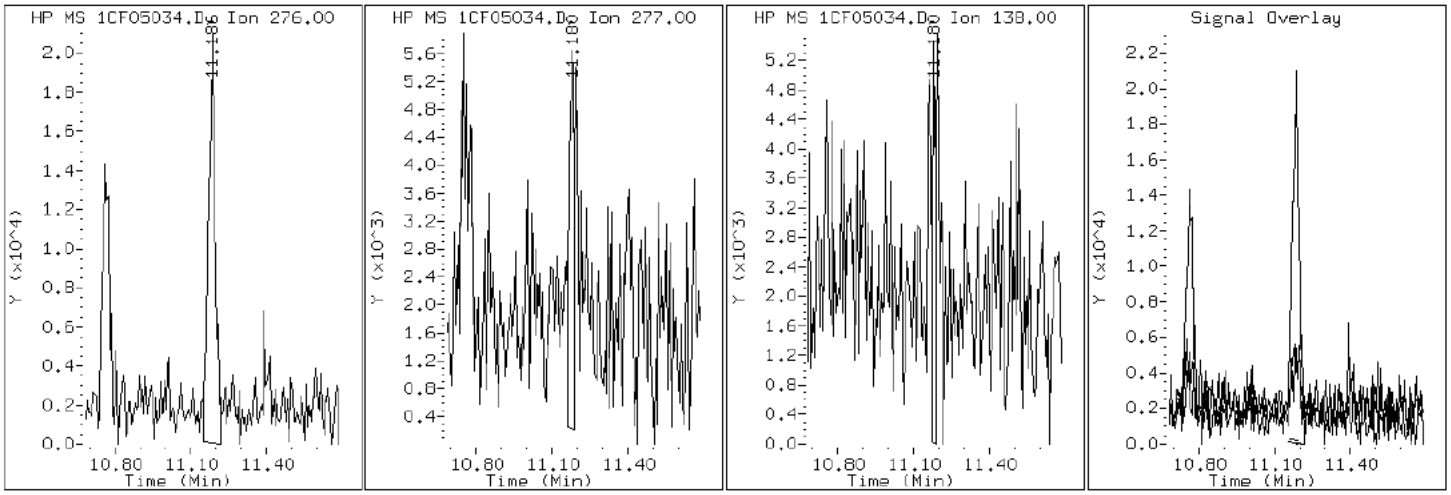
Data File: 1CF05034.D

Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a Operator: SCC

26 Benzo(g,h,i)perylene



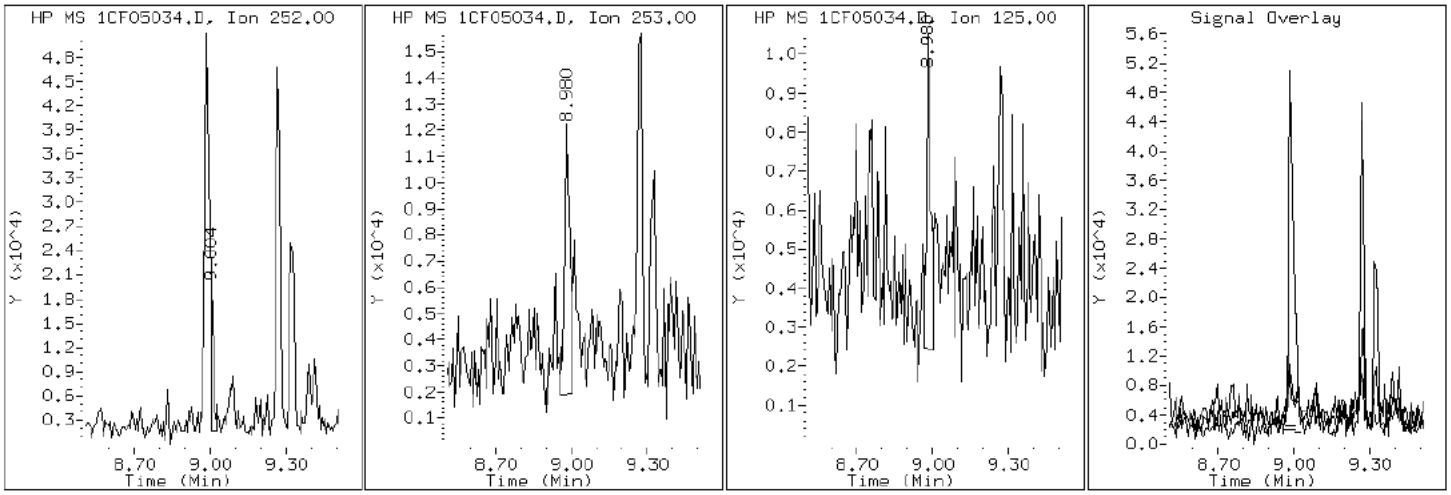
Data File: 1CF05034.D

Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS | Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a | Operator: SCC

21 Benzo(k)fluoranthene



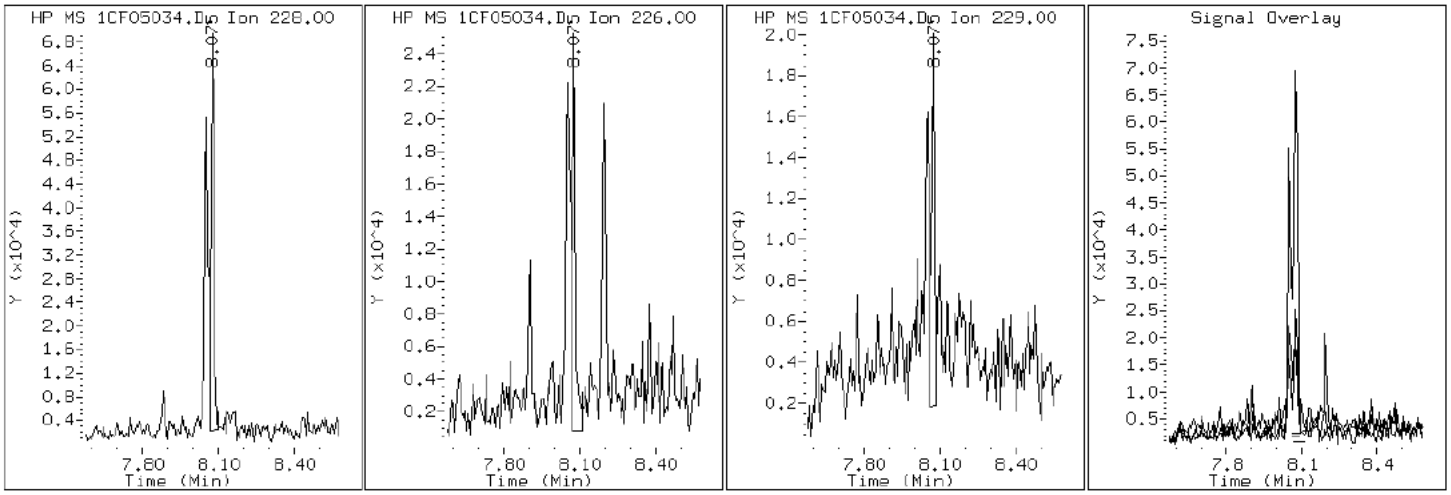
Data File: 1CF05034.D

Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a Operator: SCC

19 Chrysene



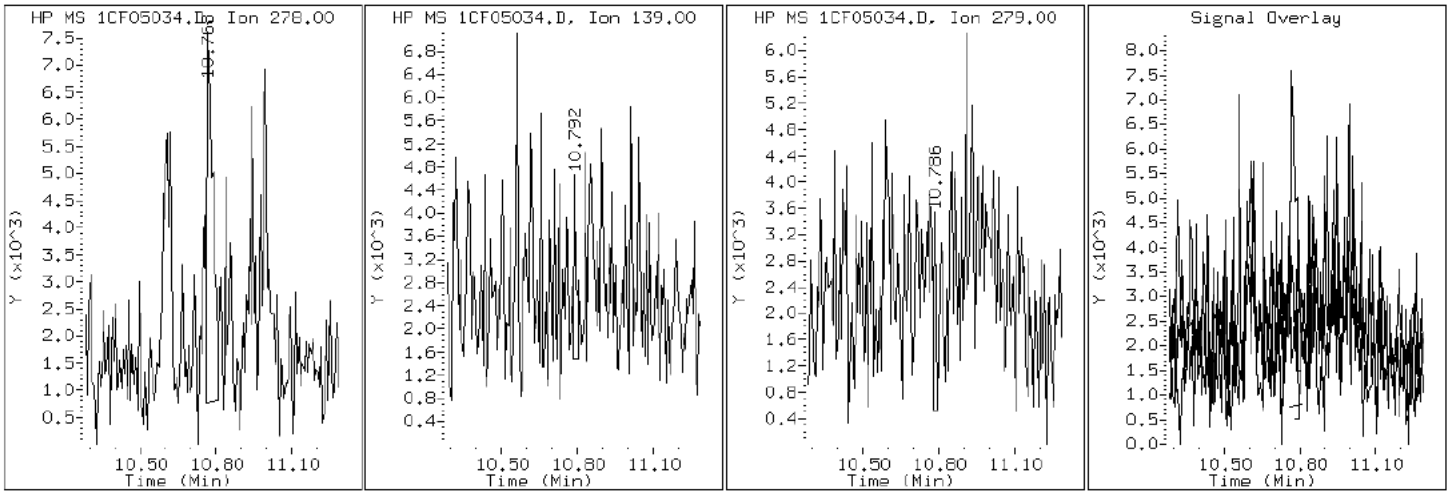
Data File: 1CF05034.D

Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a Operator: SCC

25 Dibenzo(a,h)anthracene



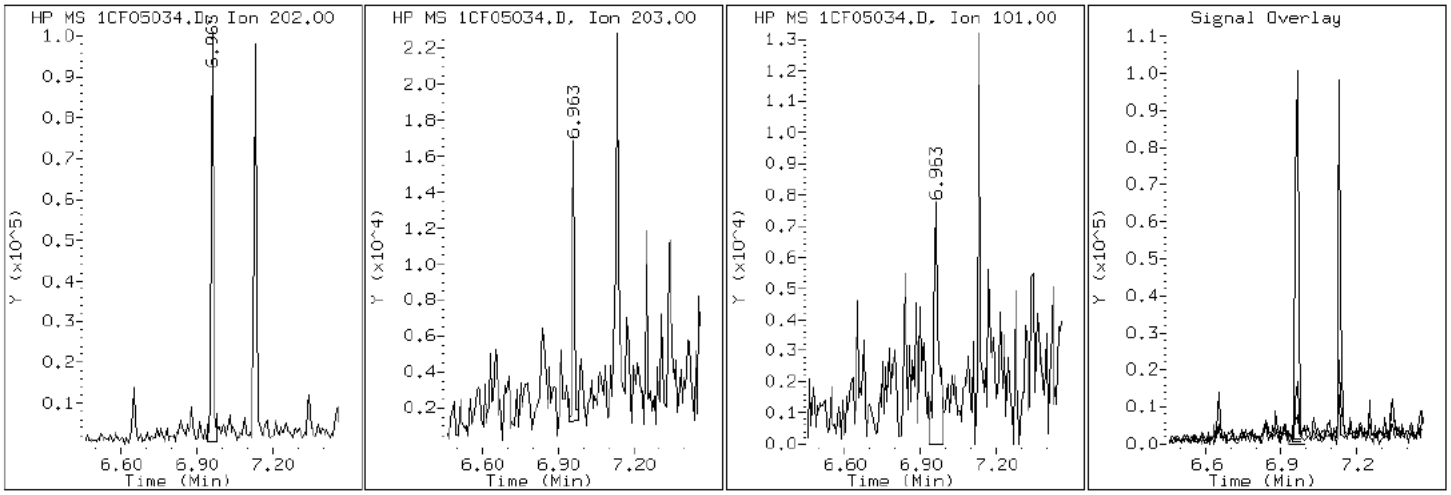
Data File: 1CF05034.D

Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a Operator: SCC

15 Fluoranthene



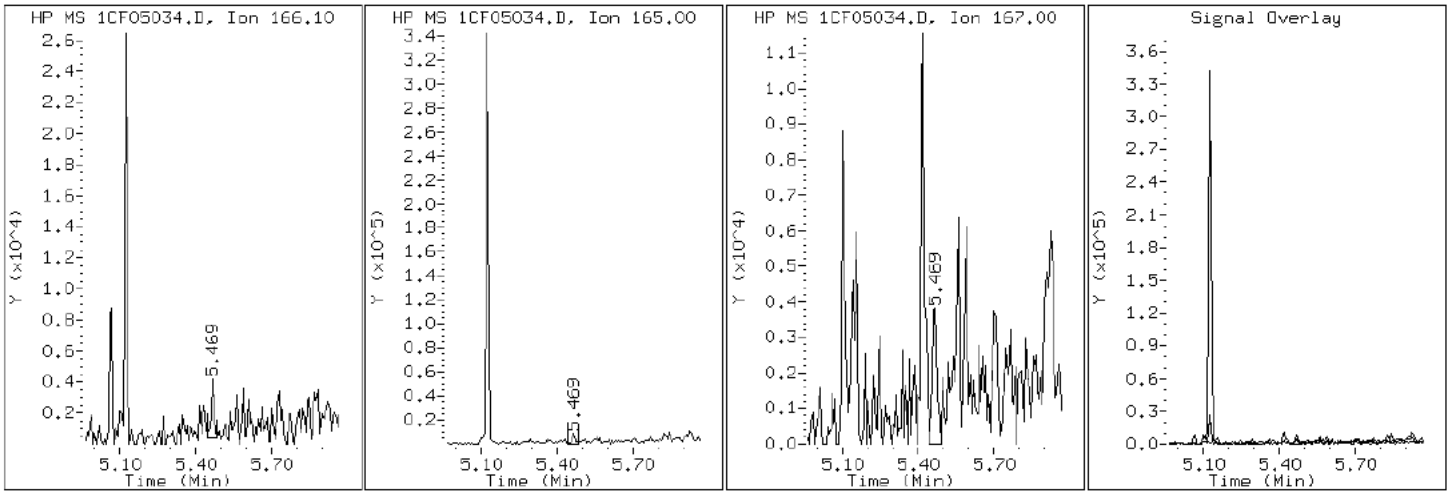
Data File: 1CF05034.D

Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a Operator: SCC

9 Fluorene



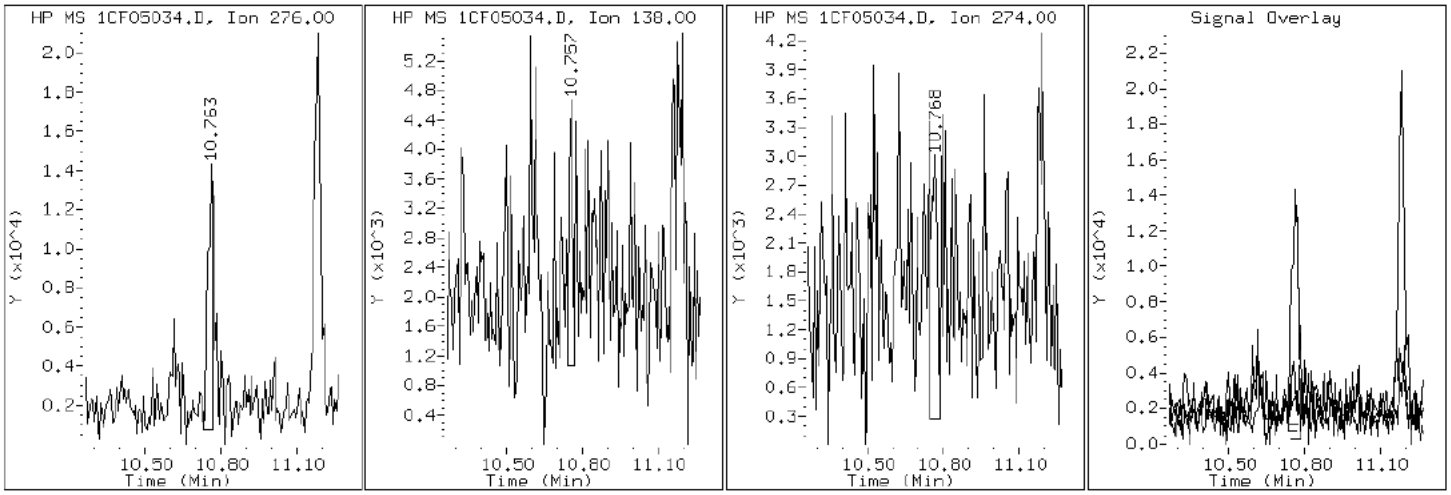
Data File: 1CF05034.D

Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a Operator: SCC

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



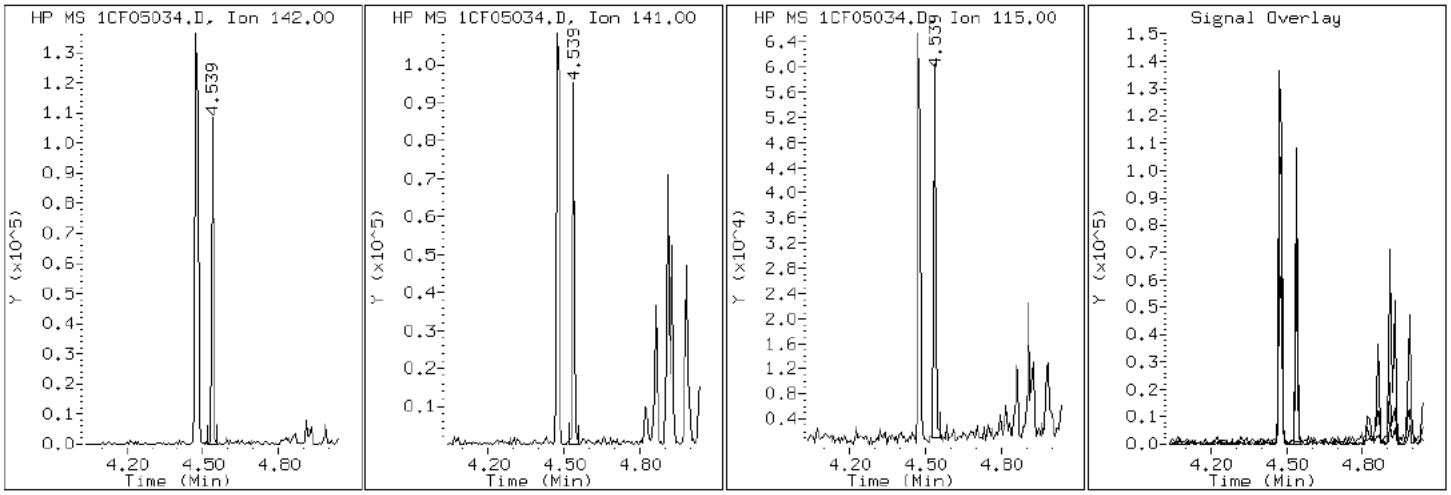
Data File: 1CF05034.D

Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a Operator: SCC

4 1-Methylnaphthalene



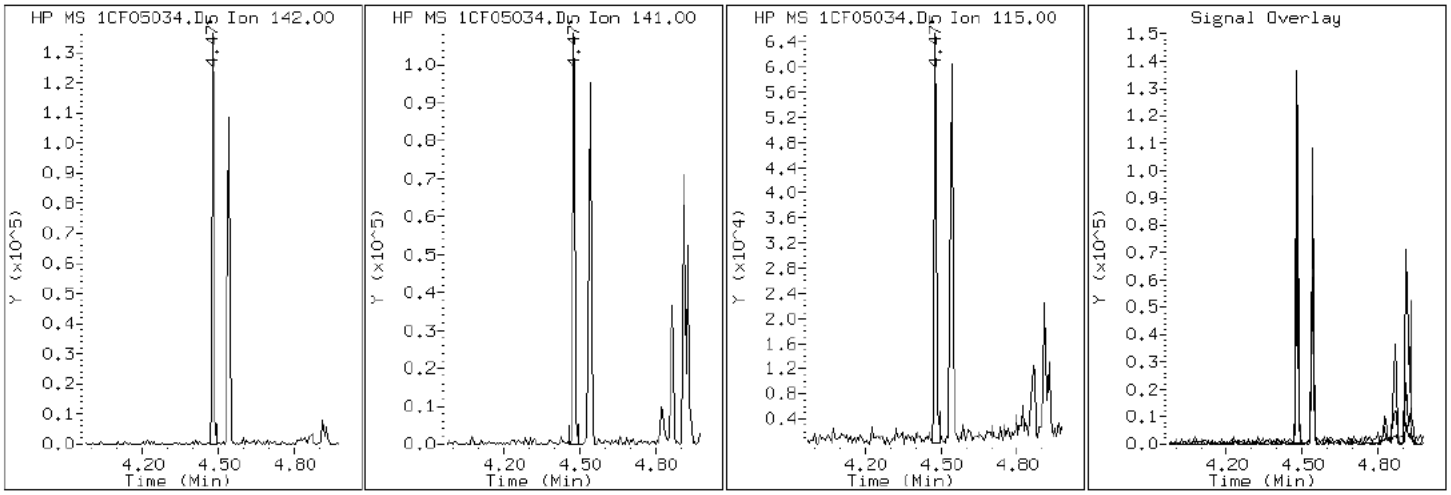
Data File: 1CF05034.D

Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a Operator: SCC

3 2-Methylnaphthalene



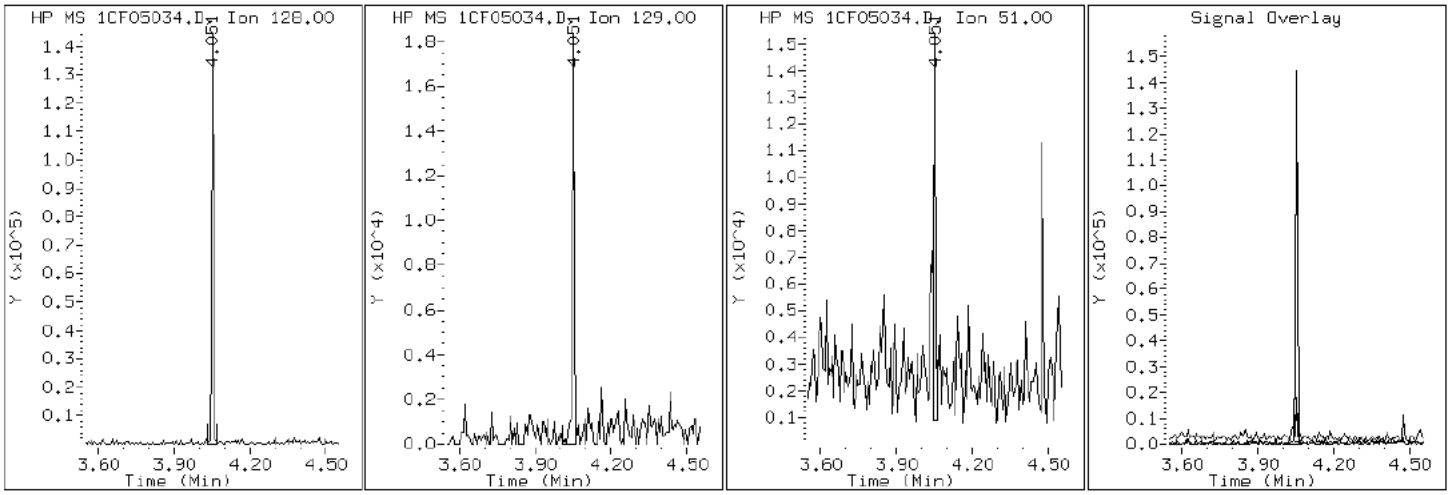
Data File: 1CF05034.D

Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a Operator: SCC

2 Naphthalene



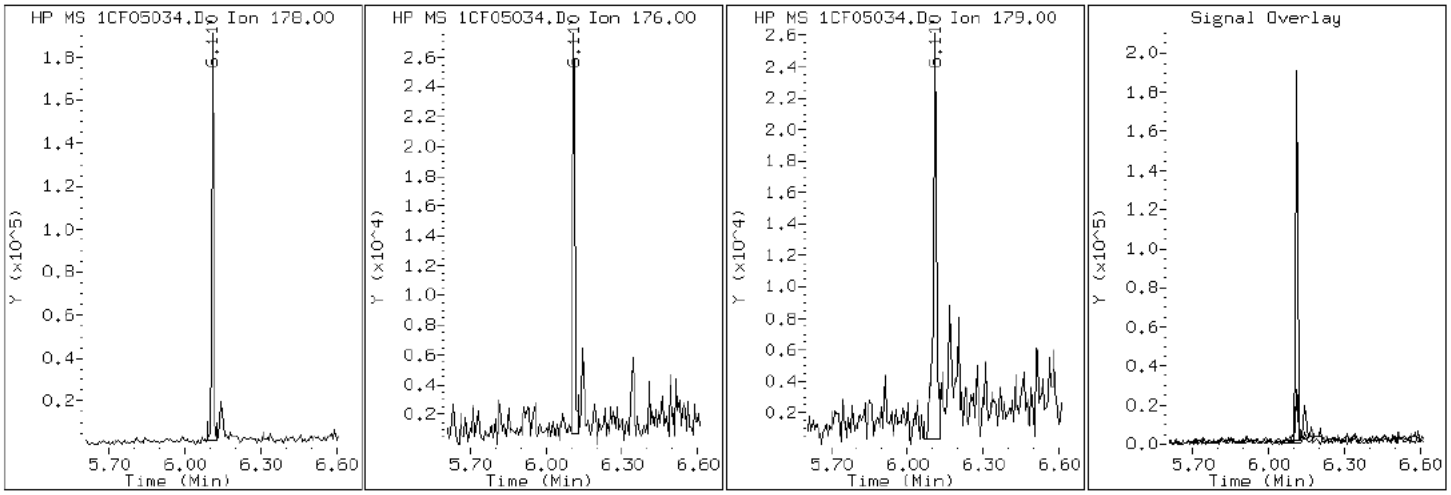
Data File: 1CF05034.D

Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a Operator: SCC

11 Phenanthrene



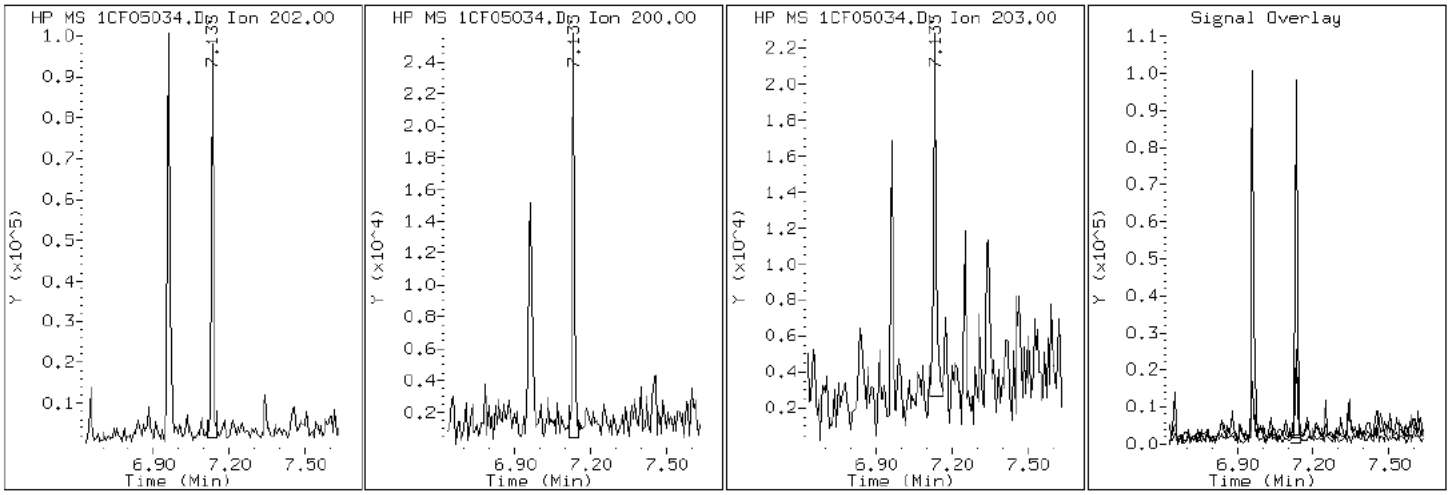
Data File: 1CF05034.D

Date: 05-JUN-2013 21:57

Client ID: CV1242B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-36-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF05034.D
Inj. Date and Time: 05-JUN-2013 21:57
Instrument ID: BSMC5973.i
Client ID: CV1242B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/06/2013

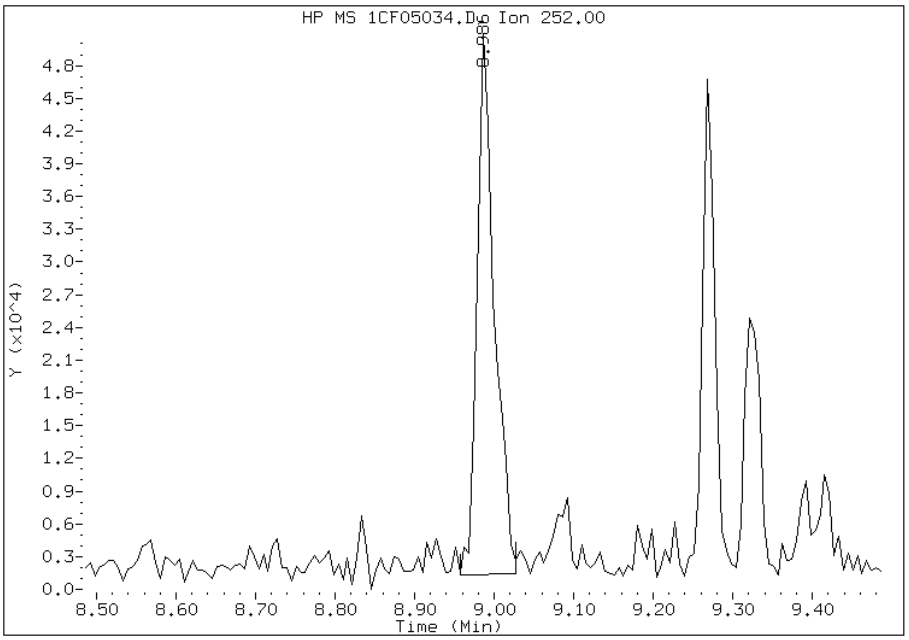
Processing Integration Results

RT: 8.99

Response: 75223

Amount: 1

Conc: 317



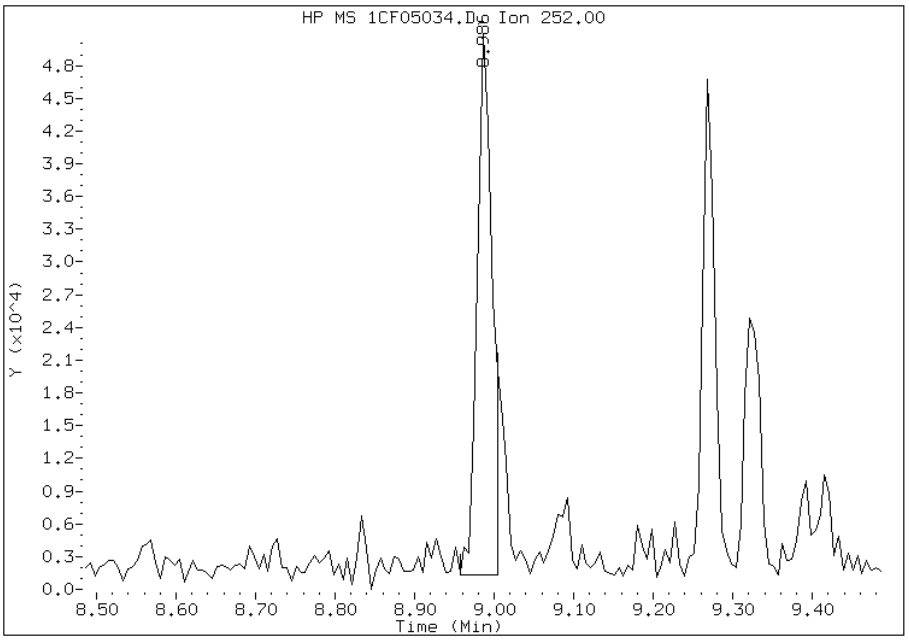
Manual Integration Results

RT: 8.99

Response: 65175

Amount: 1

Conc: 275



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:36
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF05034.D
Inj. Date and Time: 05-JUN-2013 21:57
Instrument ID: BSMC5973.i
Client ID: CV1242B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/06/2013

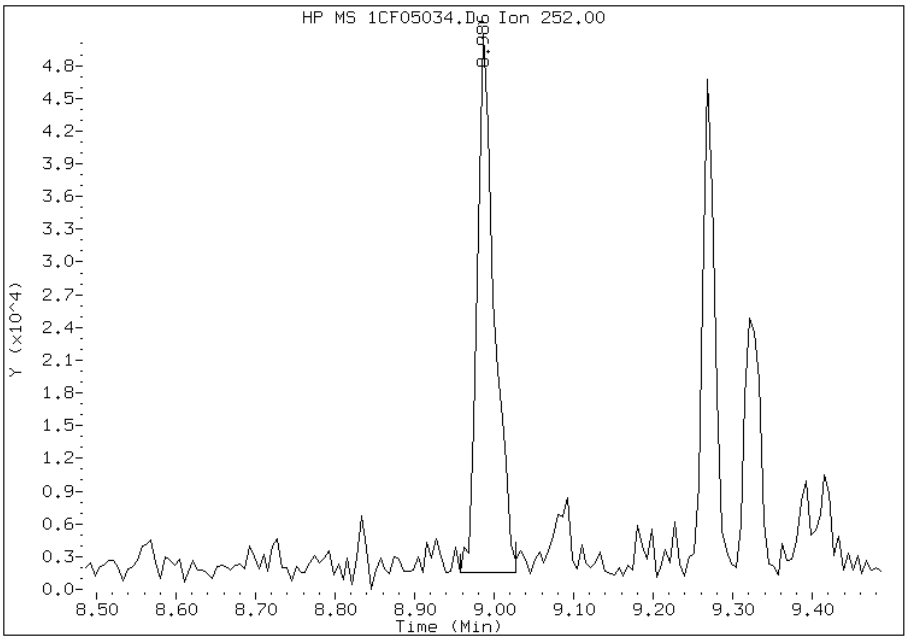
Processing Integration Results

RT: 8.99

Response: 74599

Amount: 1

Conc: 281



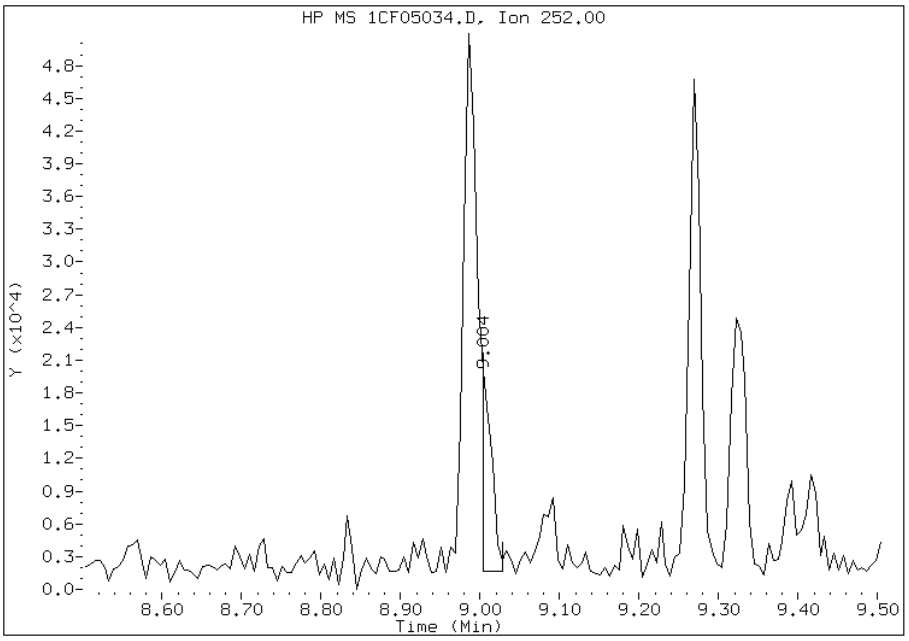
Manual Integration Results

RT: 9.00

Response: 16078

Amount: 0

Conc: 61



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF05034.D
Inj. Date and Time: 05-JUN-2013 21:57
Instrument ID: BSMC5973.i
Client ID: CV1242B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/06/2013

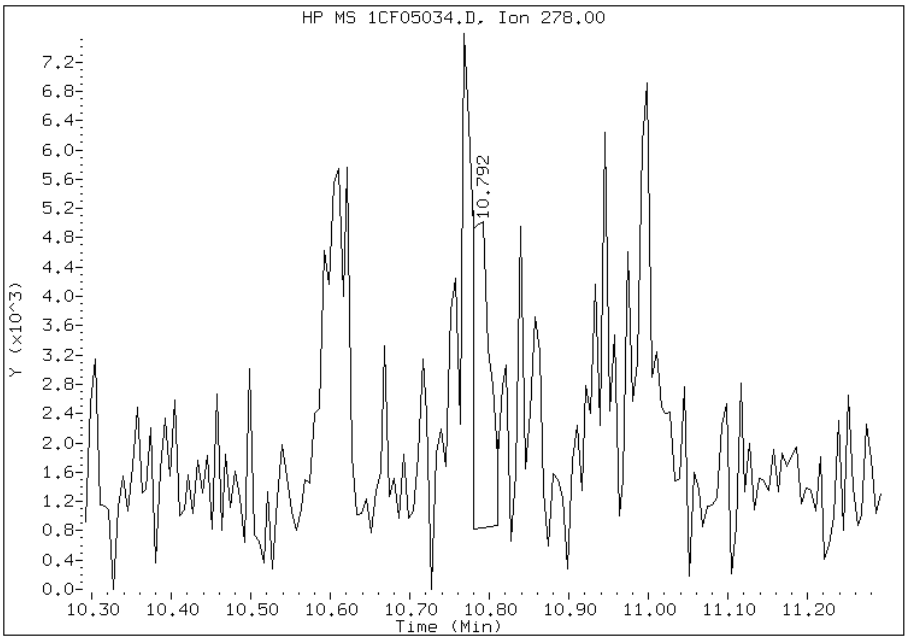
Processing Integration Results

RT: 10.79

Response: 6255

Amount: 0

Conc: 30



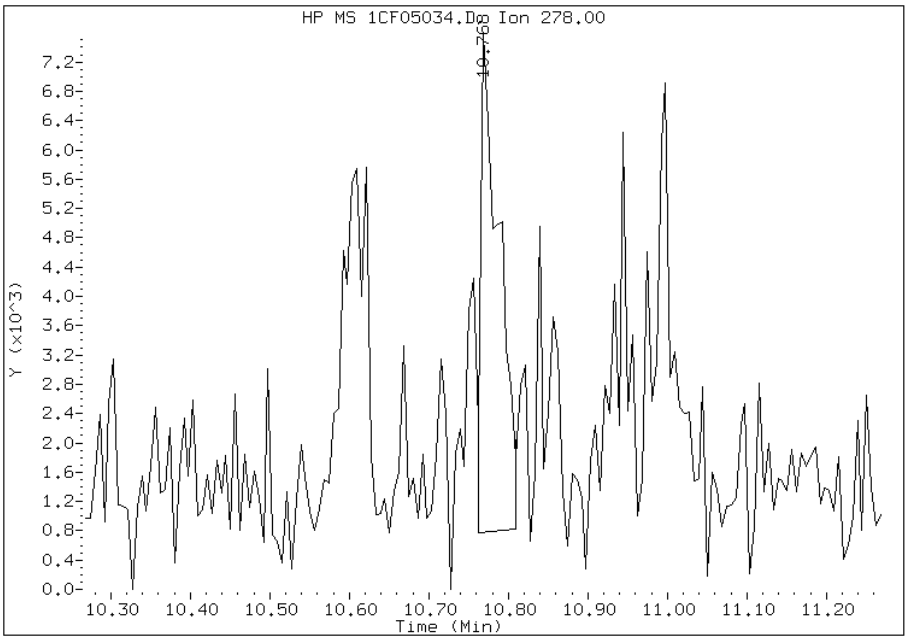
Manual Integration Results

RT: 10.77

Response: 11249

Amount: 0

Conc: 55



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF05034.D
Inj. Date and Time: 05-JUN-2013 21:57
Instrument ID: BSMC5973.i
Client ID: CV1242B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

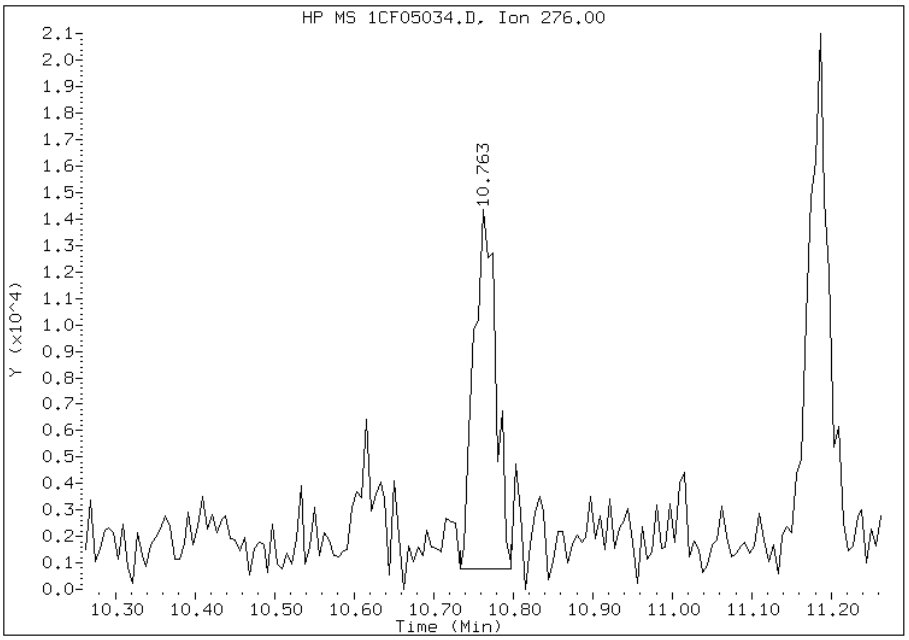
Processing Integration Results

RT: 10.76

Response: 25751

Amount: 0

Conc: 149



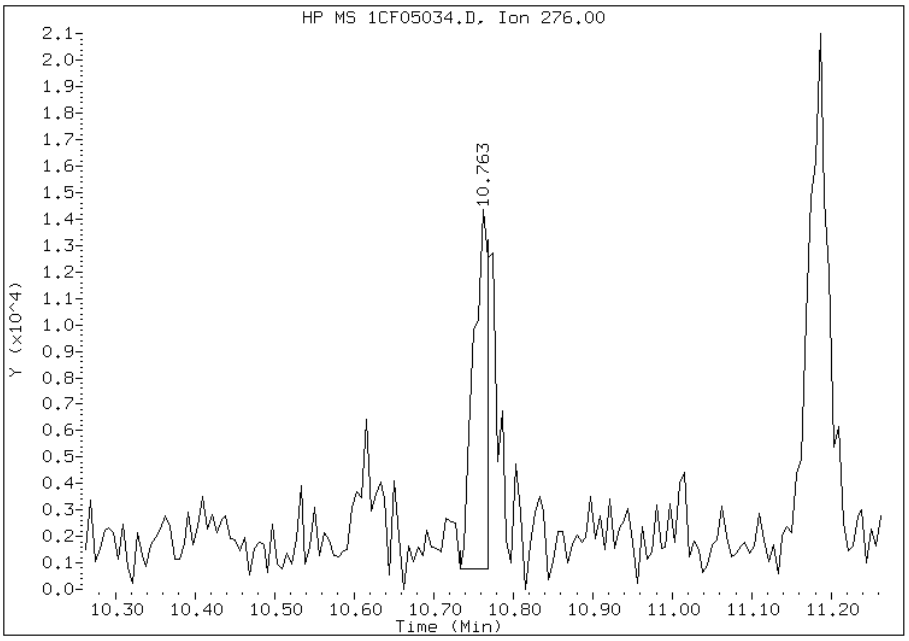
Manual Integration Results

RT: 10.76

Response: 17540

Amount: 0

Conc: 117



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV1242C-CS | Lab Sample ID: 680-90723-37

Matrix: Solid | Lab File ID: 1CF05035.D

Analysis Method: 8270C LL | Date Collected: 05/24/2013 08:53

Extract. Method: 3546 | Date Extracted: 06/03/2013 13:04

Sample wt/vol: 15.08(g) | Date Analyzed: 06/05/2013 22:16

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

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

% Moisture: 17.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	96
208-96-8	Acenaphthylene	190	U	190	24
120-12-7	Anthracene	20	J	40	20
56-55-3	Benzo[a]anthracene	140		38	19
50-32-8	Benzo[a]pyrene	160		50	25
205-99-2	Benzo[b]fluoranthene	280		59	29
191-24-2	Benzo[g,h,i]perylene	120		96	21
207-08-9	Benzo[k]fluoranthene	73		38	17
218-01-9	Chrysene	210		43	22
53-70-3	Dibenz(a,h)anthracene	46	J	96	20
206-44-0	Fluoranthene	250		96	19
86-73-7	Fluorene	24	J	96	20
193-39-5	Indeno[1,2,3-cd]pyrene	110		96	34
90-12-0	1-Methylnaphthalene	89	J	190	21
91-57-6	2-Methylnaphthalene	63	J	190	34
91-20-3	Naphthalene	54	J	190	21
85-01-8	Phenanthrene	180		38	19
129-00-0	Pyrene	220		96	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	105		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05035.D
Lab Smp Id: 680-90723-A-37-A Client Smp ID: CV1242C-CS
Inj Date : 05-JUN-2013 22:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-37-a
Misc Info : 680-90723-A-37-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 35
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	15.080	Weight Extracted
M	17.048	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	4.039	4.039	(1.000)	2083688	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1479602	40.0000	
* 10 Phenanthrene-d10	188	6.098	6.092	(1.000)	2703091	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.041)	110593	2.62646	839.8493
* 18 Chrysene-d12	240	8.056	8.056	(1.000)	3214911	40.0000	
* 23 Perylene-d12	264	9.392	9.392	(1.000)	2960853	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	9908	0.16850	53.8801
3 2-Methylnaphthalene	142	4.480	4.474	(1.109)	6396	0.19610	62.7071
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	8885	0.27688	88.5377
5 Acenaphthylene	152	5.039	5.039	(0.983)	4080	0.07193	23.0008
9 Fluorene	166	5.468	5.468	(1.067)	3365	0.07414	23.7080(Q)
11 Phenanthrene	178	6.109	6.110	(1.002)	44277	0.55443	177.2865
12 Anthracene	178	6.145	6.145	(1.008)	4717	0.06376	20.3867(Q)
13 Carbazole	167	6.251	6.251	(1.025)	9994	0.25946	82.9676

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.962	6.962	(1.142)	63638	0.77960	249.2902
16 Pyrene	202	7.133	7.133	(0.885)	60354	0.69522	222.3074
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	38375	0.43288	138.4212
19 Chrysene	228	8.074	8.074	(1.002)	59649	0.66831	213.7007
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	62578	0.86022	275.0676(M)
21 Benzo(k)fluoranthene	252	9.003	9.009	(0.959)	18628	0.22927	73.3115(QM)
22 Benzo(a)pyrene	252	9.327	9.327	(0.993)	30544	0.51132	163.5025
24 Indeno(1,2,3-cd)pyrene	276	10.762	10.768	(1.146)	15430	0.35328	112.9680(M)
25 Dibenzo(a,h)anthracene	278	10.774	10.786	(1.147)	9000	0.14241	45.5386
26 Benzo(g,h,i)perylene	276	11.180	11.186	(1.190)	25969	0.37754	120.7232

QC Flag Legend

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

Data File: 1CF05035.D

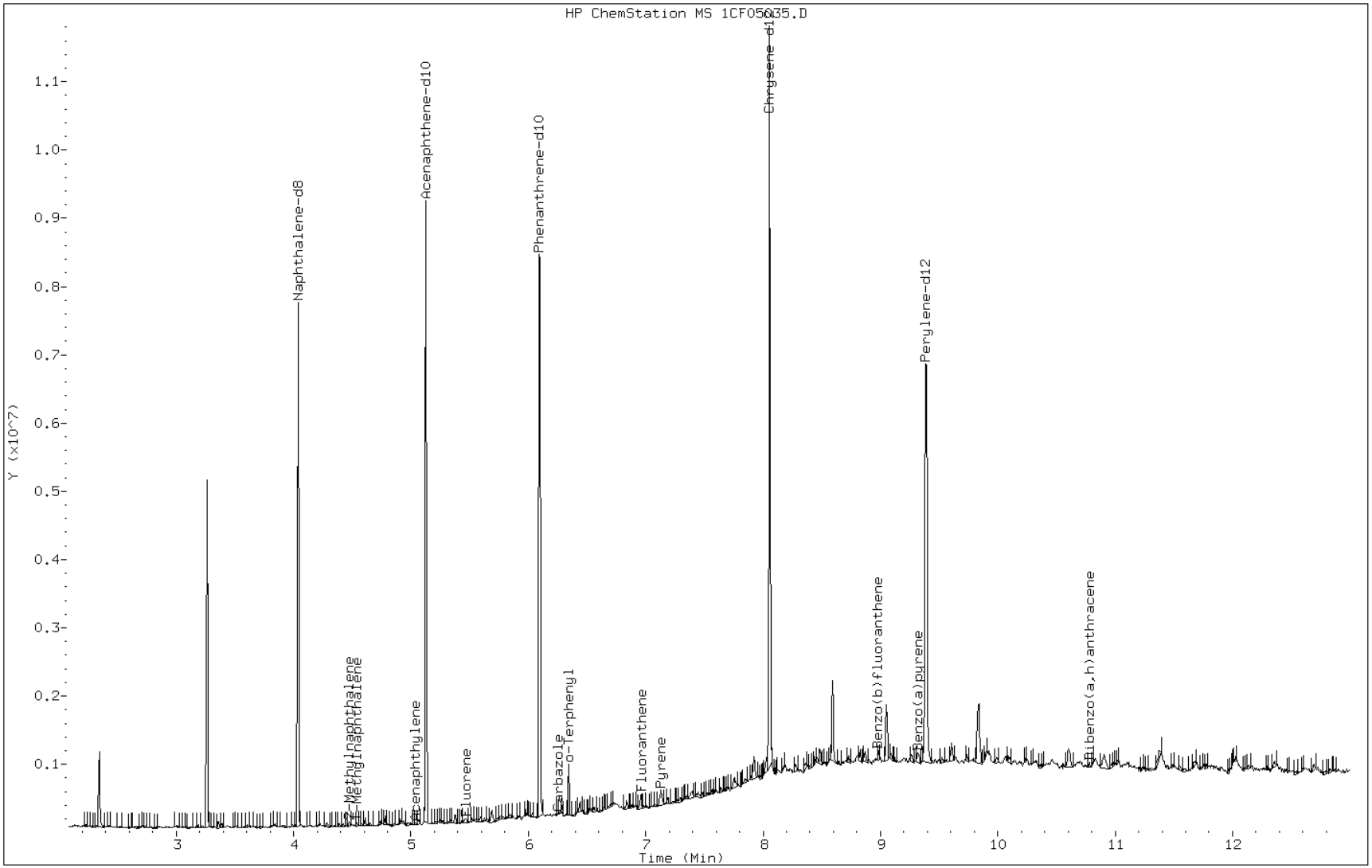
Date: 05-JUN-2013 22:16

Client ID: CV1242C-CS

Instrument: BSMC5973.i

Sample Info: 680-90723-a-37-a

Operator: SCC



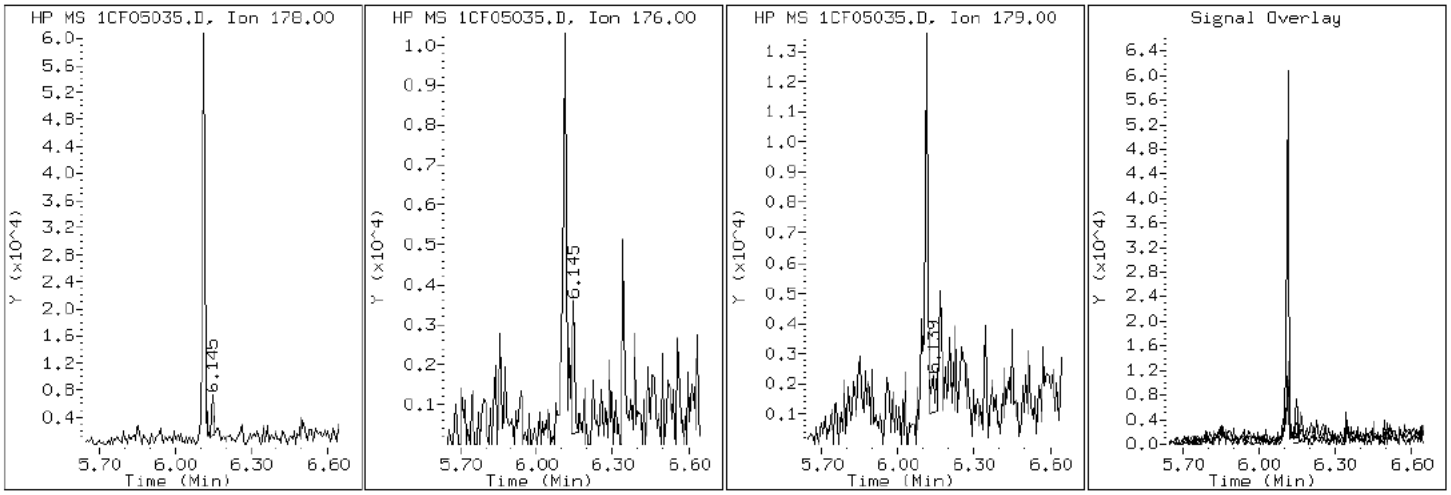
Data File: 1CF05035.D

Date: 05-JUN-2013 22:16

Client ID: CV1242C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-37-a Operator: SCC

12 Anthracene



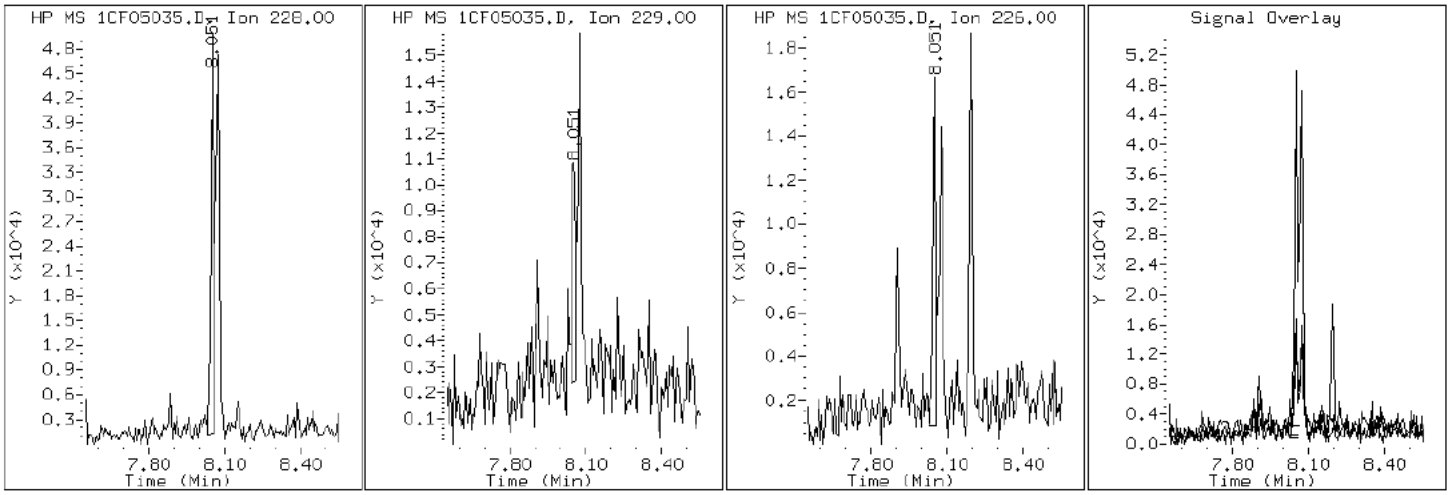
Data File: 1CF05035.D

Date: 05-JUN-2013 22:16

Client ID: CV1242C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-37-a Operator: SCC

17 Benzo(a)anthracene



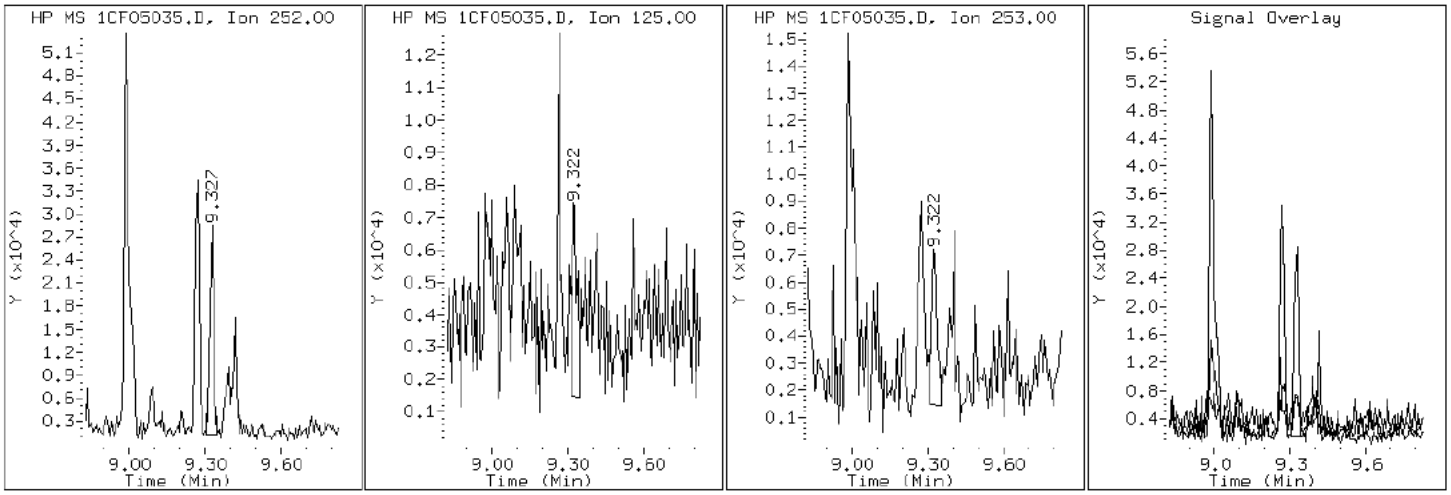
Data File: 1CF05035.D

Date: 05-JUN-2013 22:16

Client ID: CV1242C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-37-a Operator: SCC

22 Benzo(a)pyrene



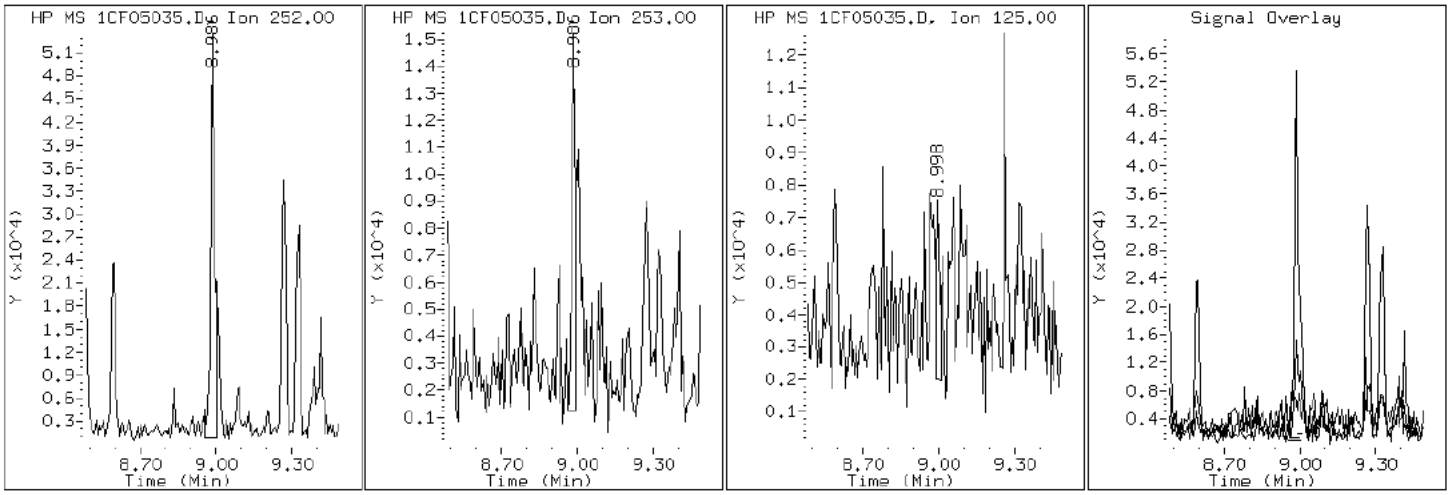
Data File: 1CF05035.D

Date: 05-JUN-2013 22:16

Client ID: CV1242C-CS | Instrument: BSMC5973.i

Sample Info: 680-90723-a-37-a | Operator: SCC

20 Benzo(b)fluoranthene



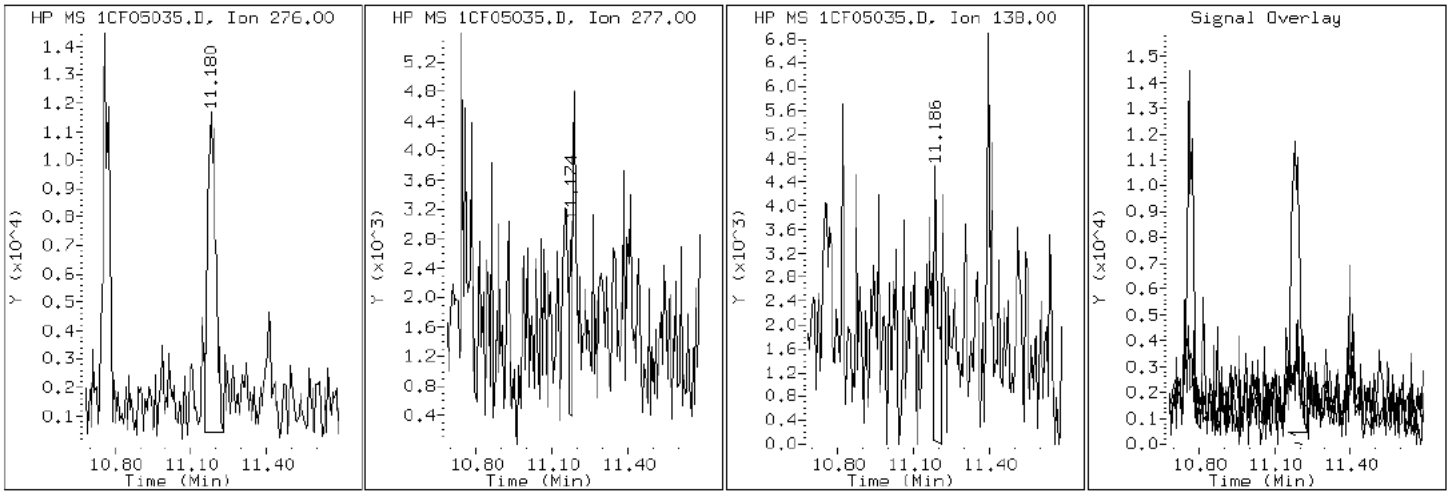
Data File: 1CF05035.D

Date: 05-JUN-2013 22:16

Client ID: CV1242C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-37-a Operator: SCC

26 Benzo(g,h,i)perylene



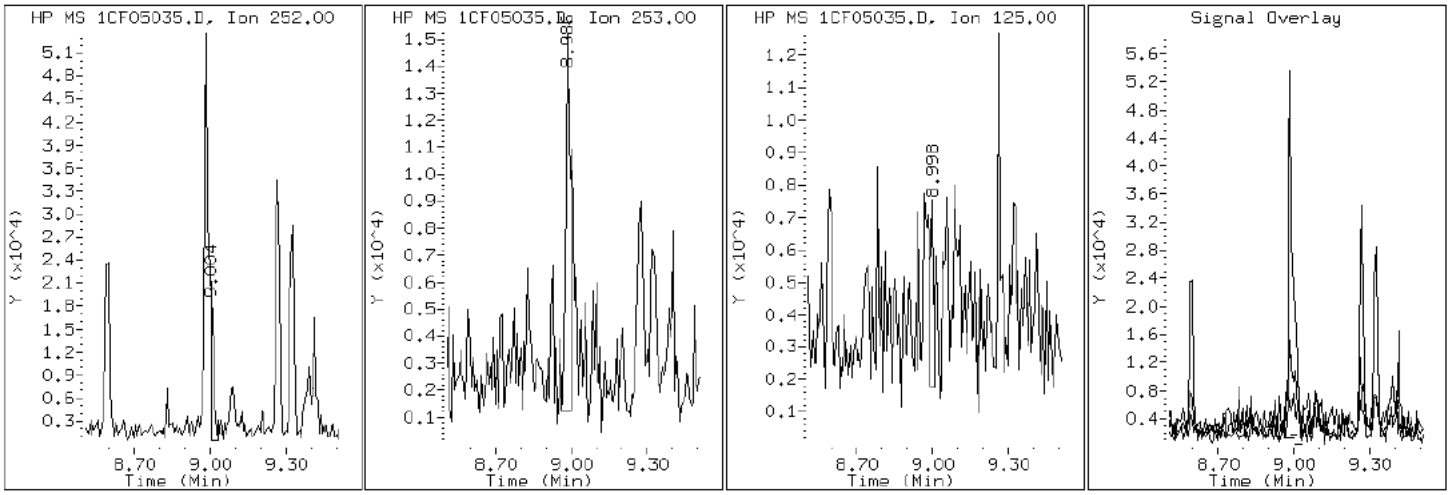
Data File: 1CF05035.D

Date: 05-JUN-2013 22:16

Client ID: CV1242C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-37-a Operator: SCC

21 Benzo(k)fluoranthene



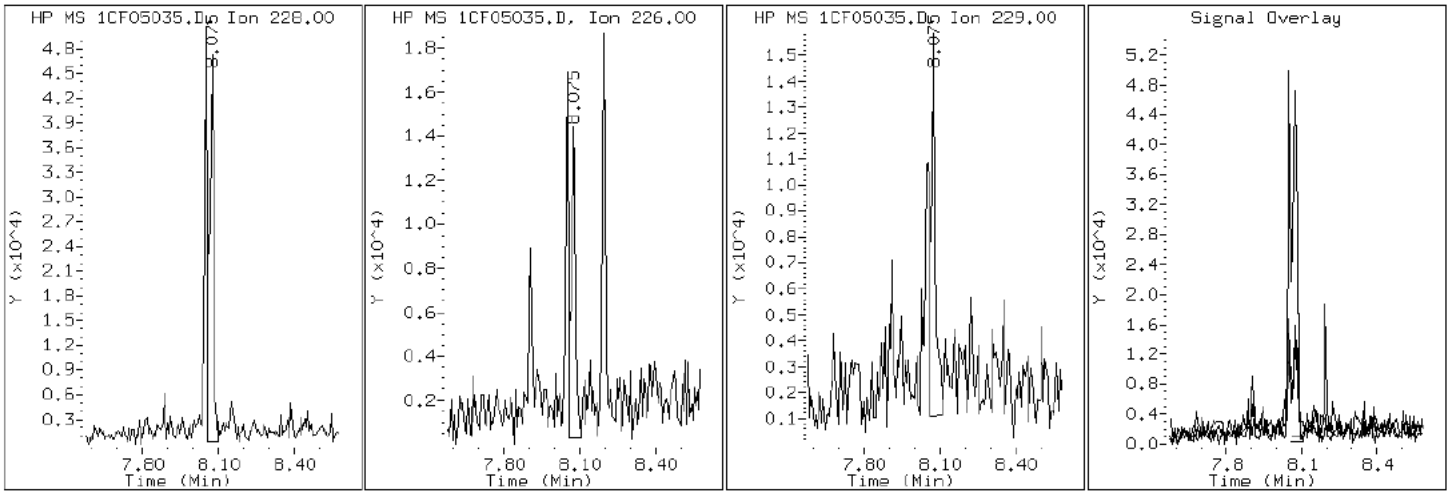
Data File: 1CF05035.D

Date: 05-JUN-2013 22:16

Client ID: CV1242C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-37-a Operator: SCC

19 Chrysene



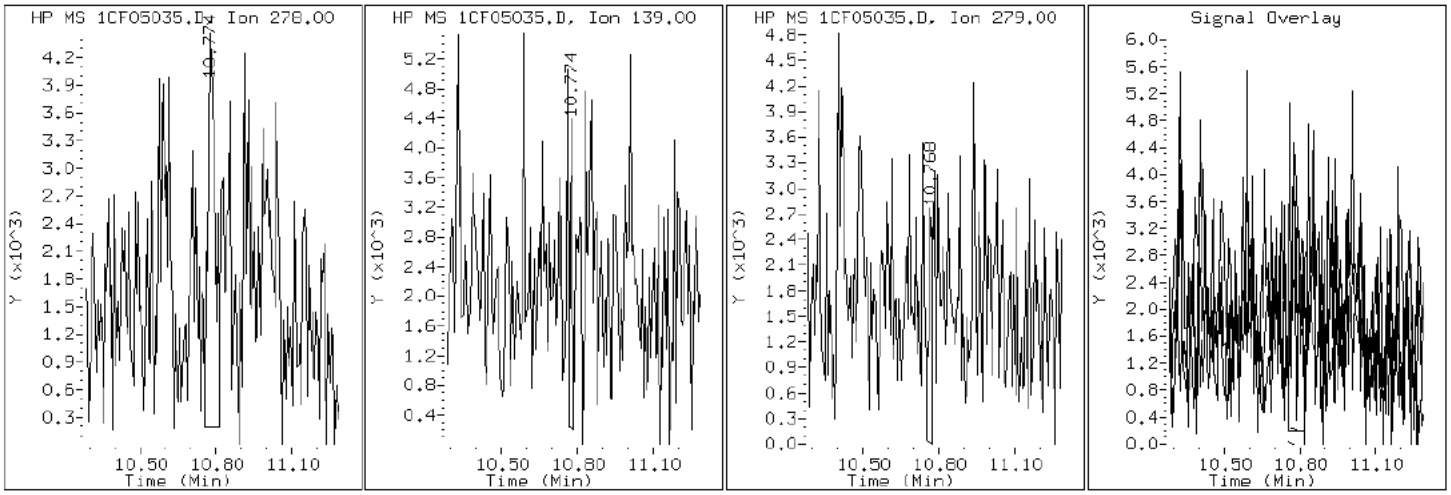
Data File: 1CF05035.D

Date: 05-JUN-2013 22:16

Client ID: CV1242C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-37-a Operator: SCC

25 Dibenzo(a,h)anthracene



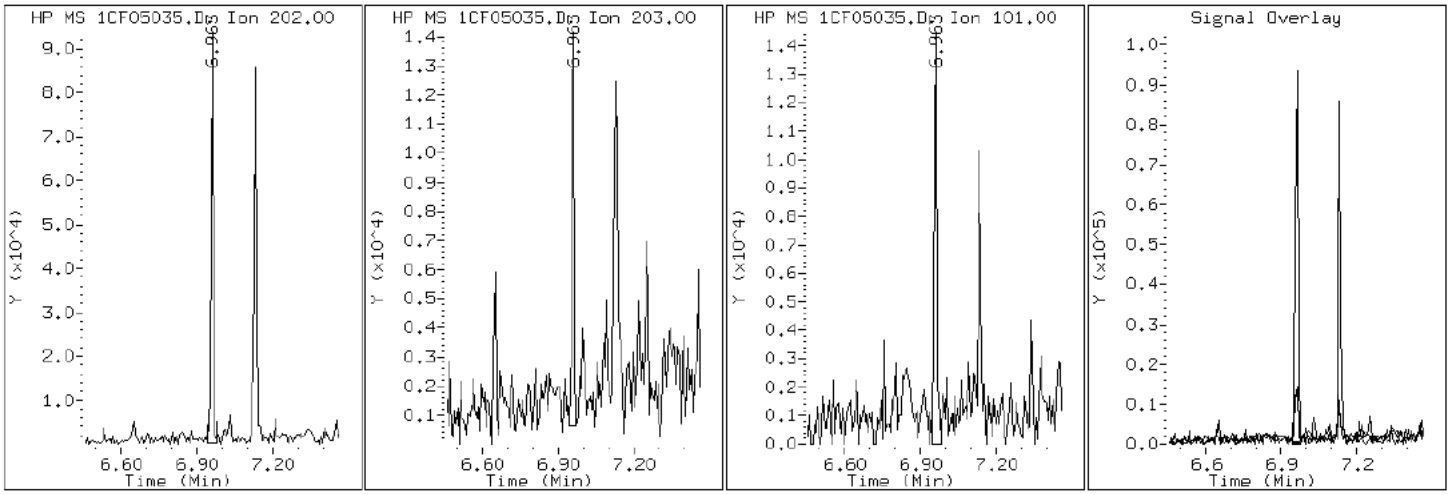
Data File: 1CF05035.D

Date: 05-JUN-2013 22:16

Client ID: CV1242C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-37-a Operator: SCC

15 Fluoranthene



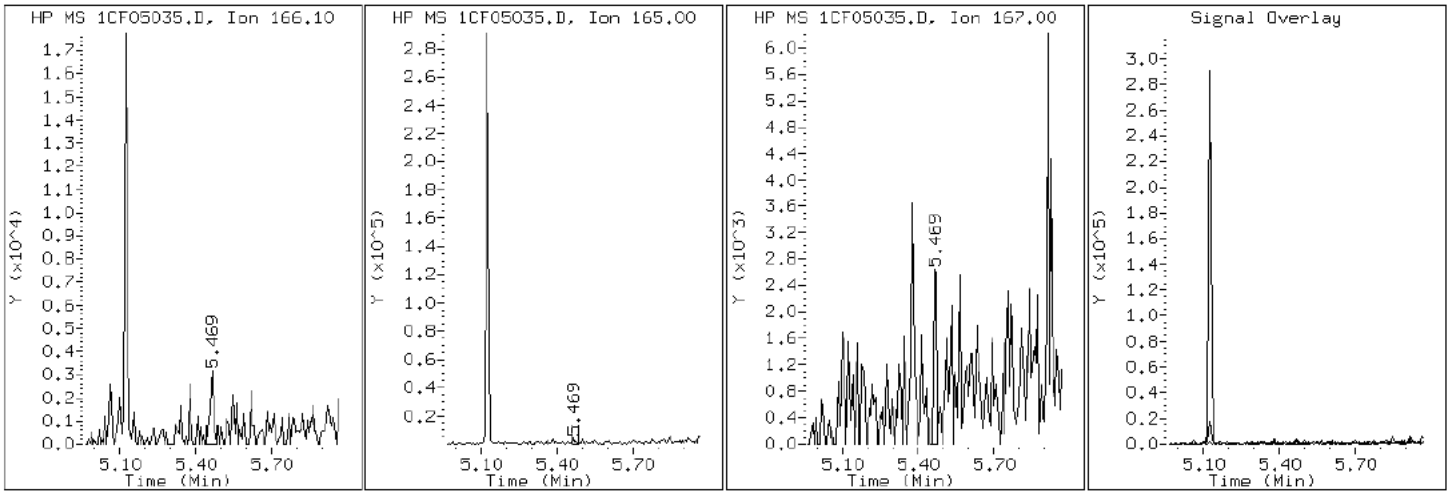
Data File: 1CF05035.D

Date: 05-JUN-2013 22:16

Client ID: CV1242C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-37-a Operator: SCC

9 Fluorene



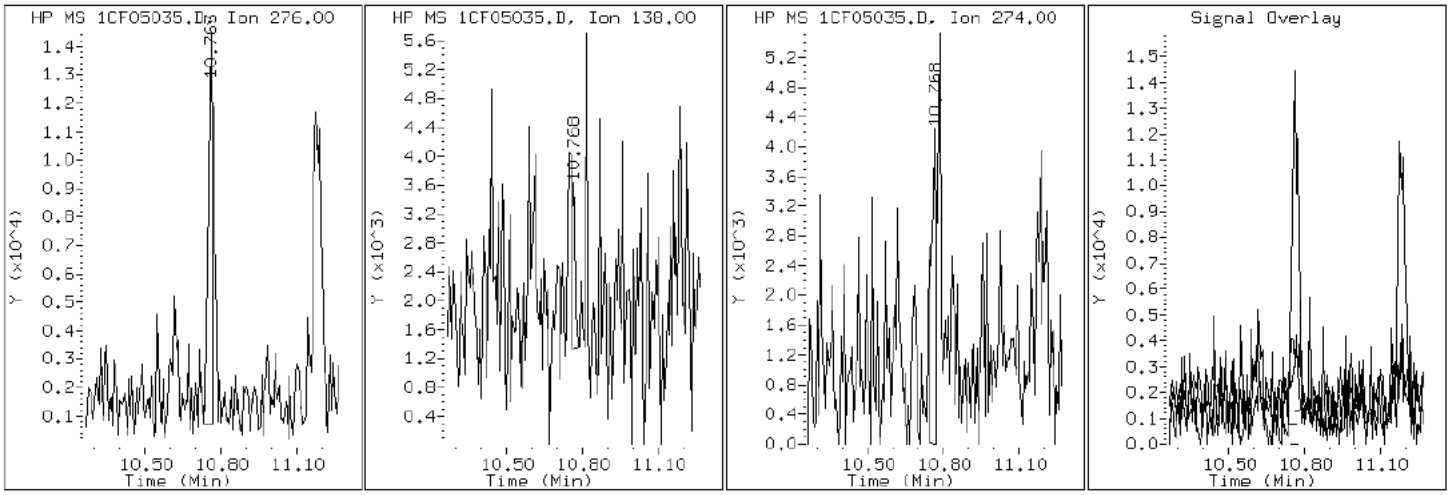
Data File: 1CF05035.D

Date: 05-JUN-2013 22:16

Client ID: CV1242C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-37-a Operator: SCC

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



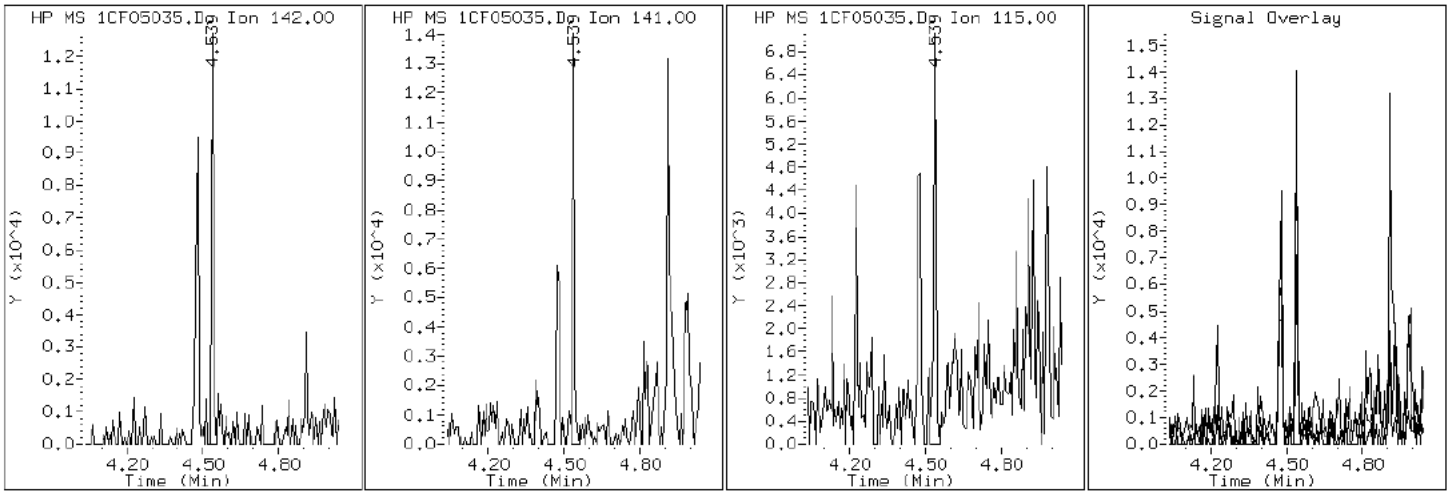
Data File: 1CF05035.D

Date: 05-JUN-2013 22:16

Client ID: CV1242C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-37-a Operator: SCC

4 1-Methylnaphthalene



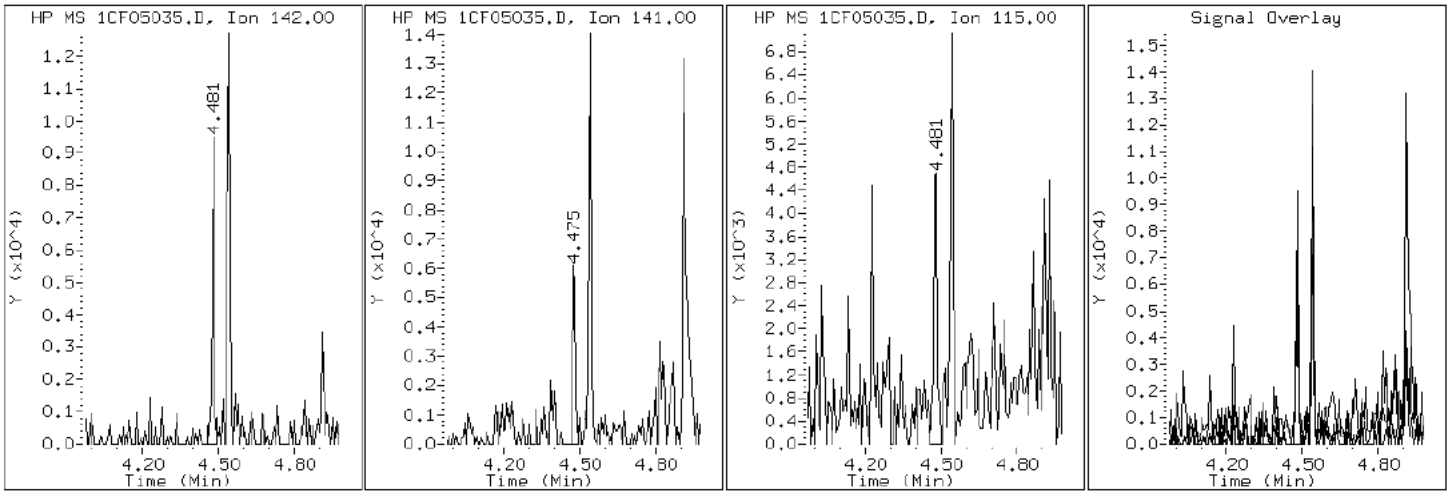
Data File: 1CF05035.D

Date: 05-JUN-2013 22:16

Client ID: CV1242C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-37-a Operator: SCC

3 2-Methylnaphthalene



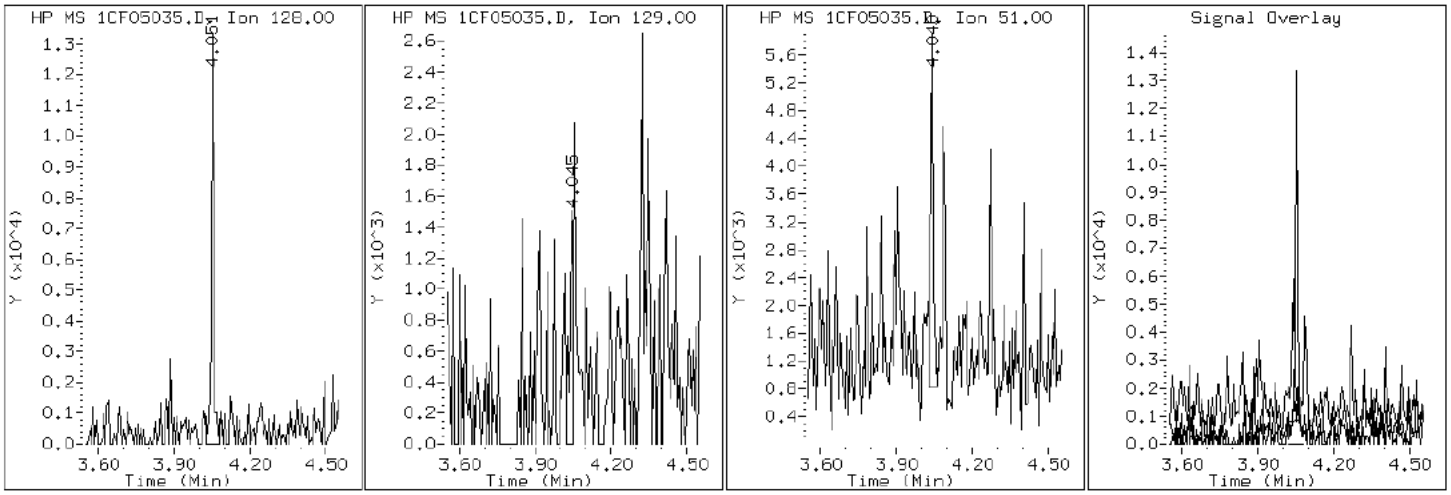
Data File: 1CF05035.D

Date: 05-JUN-2013 22:16

Client ID: CV1242C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-37-a Operator: SCC

2 Naphthalene



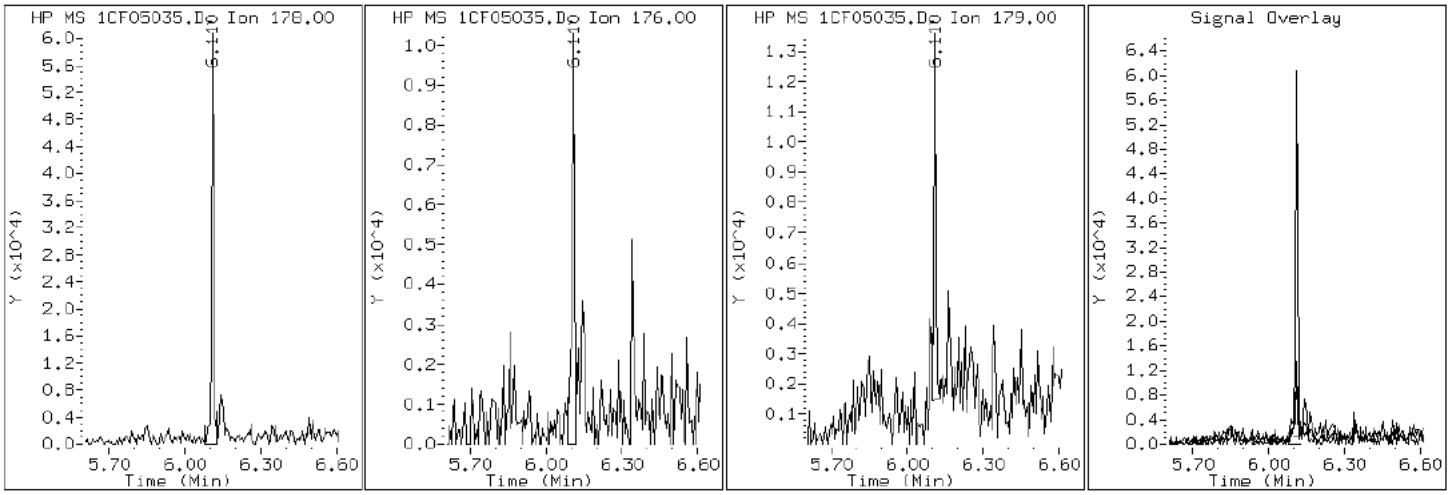
Data File: 1CF05035.D

Date: 05-JUN-2013 22:16

Client ID: CV1242C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-37-a Operator: SCC

11 Phenanthrene



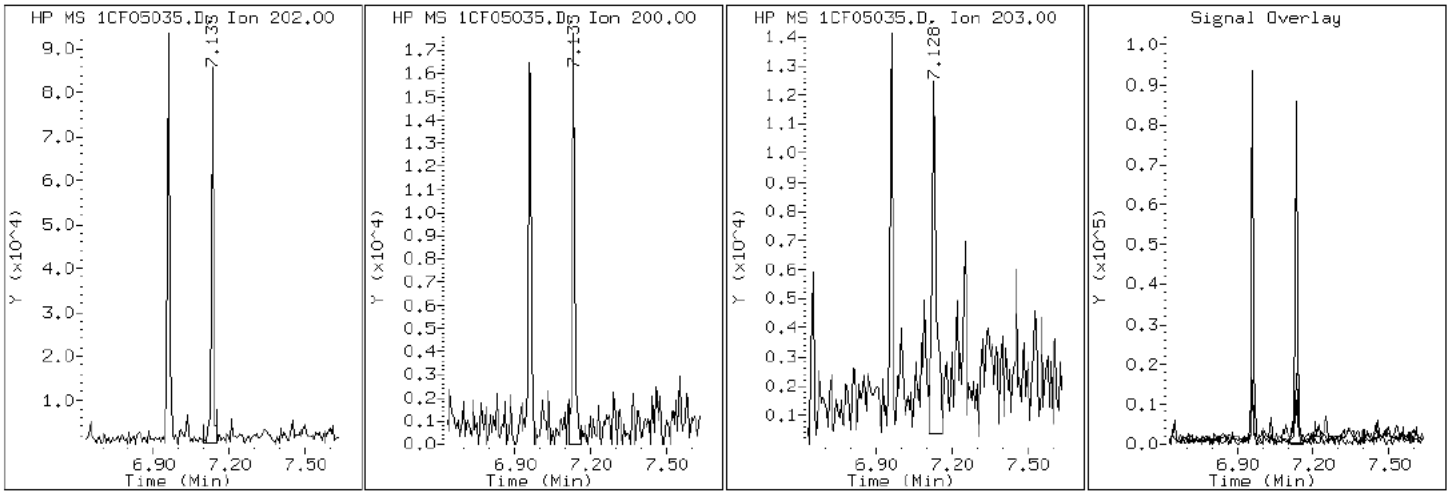
Data File: 1CF05035.D

Date: 05-JUN-2013 22:16

Client ID: CV1242C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-37-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF05035.D
Inj. Date and Time: 05-JUN-2013 22:16
Instrument ID: BSMC5973.i
Client ID: CV1242C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/06/2013

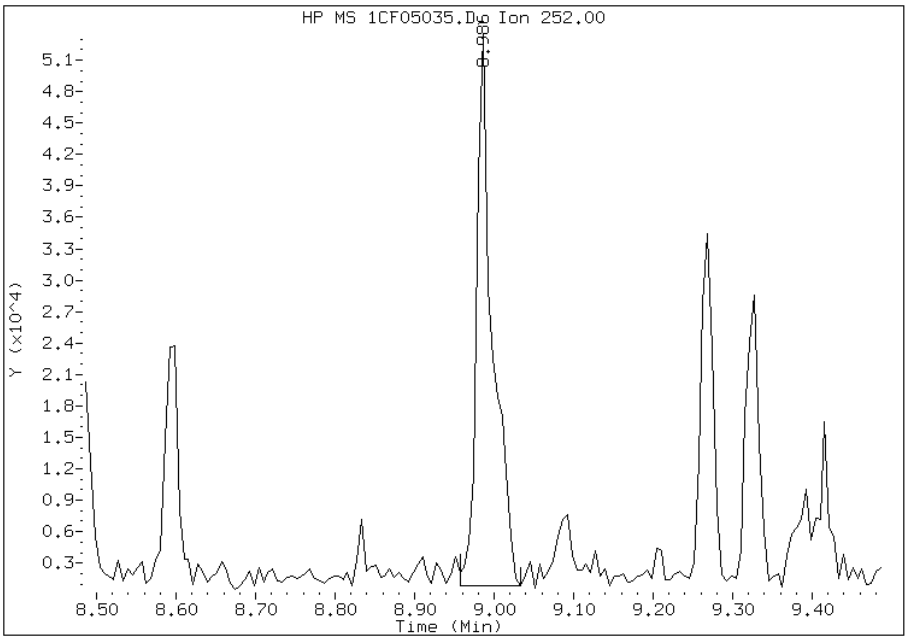
Processing Integration Results

RT: 8.99

Response: 73970

Amount: 1

Conc: 325



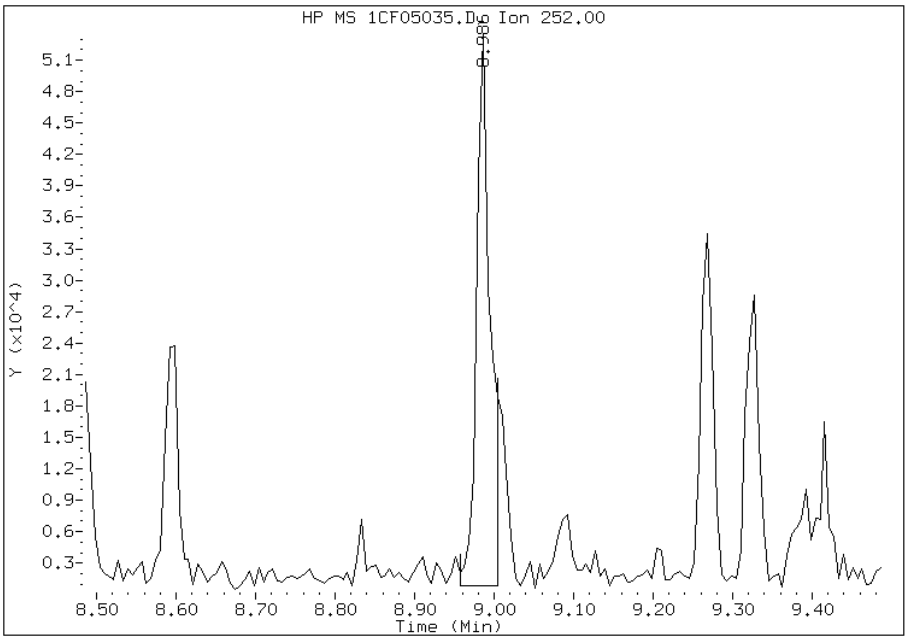
Manual Integration Results

RT: 8.99

Response: 62578

Amount: 1

Conc: 275



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF05035.D
Inj. Date and Time: 05-JUN-2013 22:16
Instrument ID: BSMC5973.i
Client ID: CV1242C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/06/2013

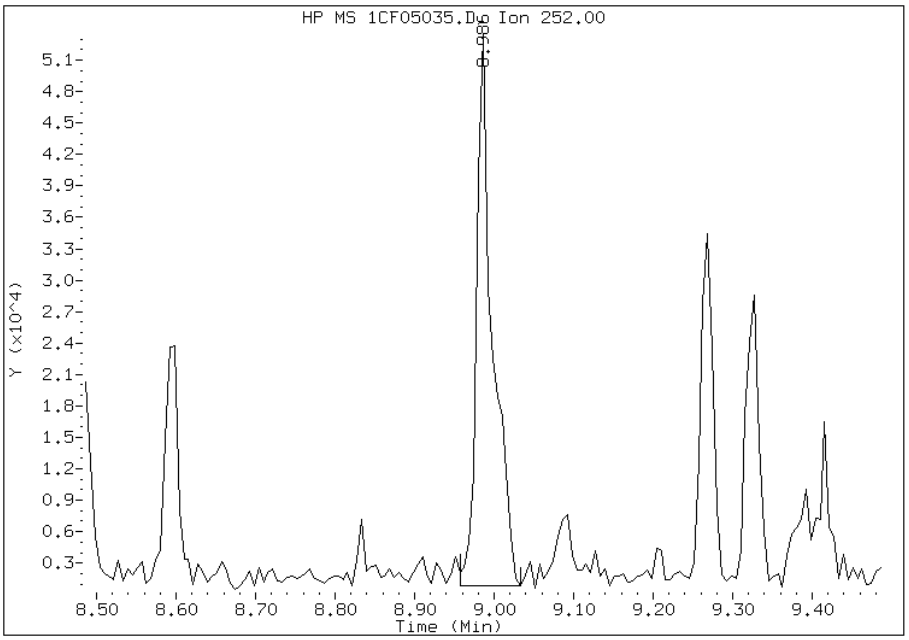
Processing Integration Results

RT: 8.99

Response: 73970

Amount: 1

Conc: 291



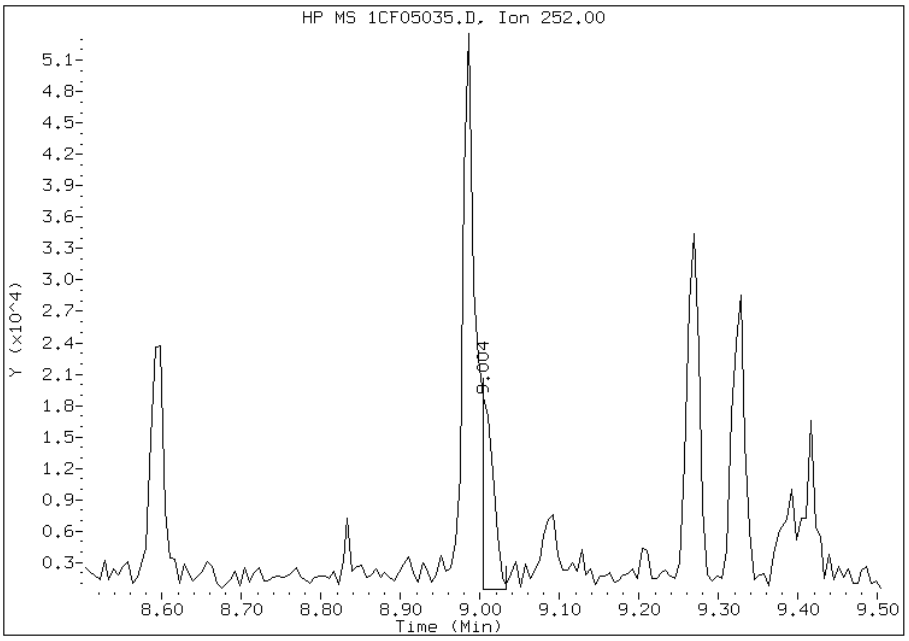
Manual Integration Results

RT: 9.00

Response: 18628

Amount: 0

Conc: 73



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF05035.D
Inj. Date and Time: 05-JUN-2013 22:16
Instrument ID: BSMC5973.i
Client ID: CV1242C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

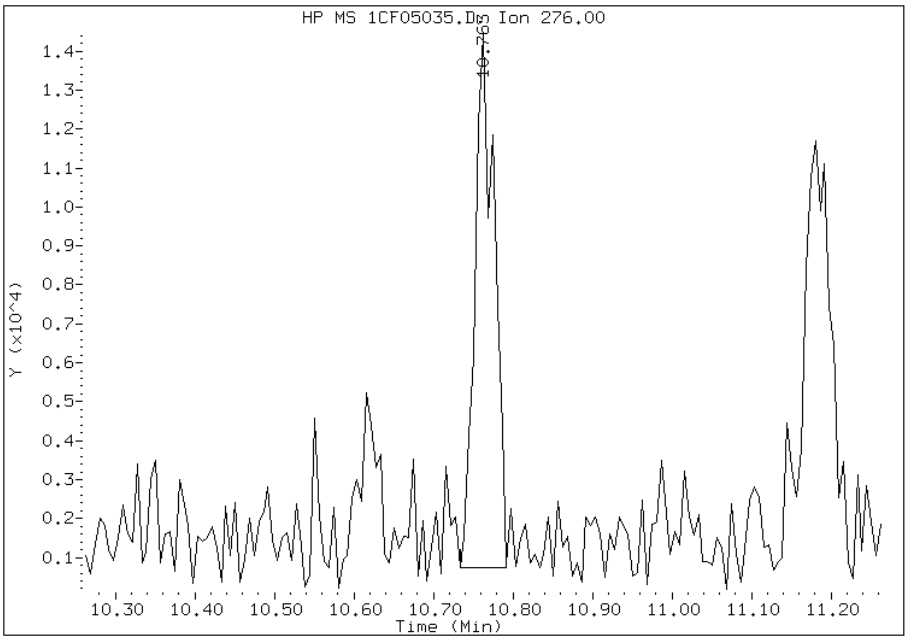
Processing Integration Results

RT: 10.76

Response: 23027

Amount: 0

Conc: 144



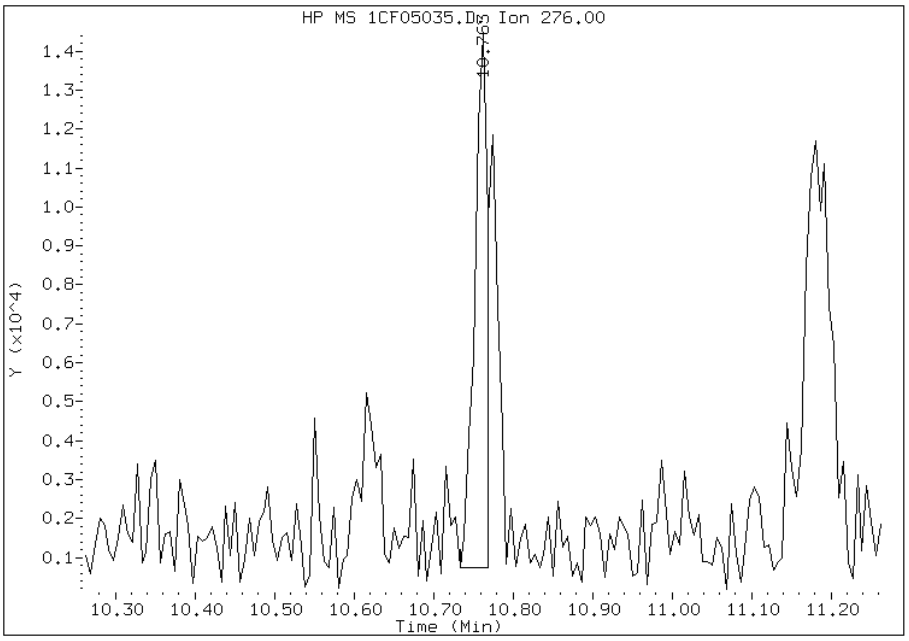
Manual Integration Results

RT: 10.76

Response: 15430

Amount: 0

Conc: 113



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:38
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: HP0331A-CS-SP | Lab Sample ID: 680-90723-38

Matrix: Solid | Lab File ID: 1CF05036.D

Analysis Method: 8270C LL | Date Collected: 05/24/2013 08:25

Extract. Method: 3546 | Date Extracted: 06/03/2013 13:04

Sample wt/vol: 15.14(g) | Date Analyzed: 06/05/2013 22:34

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

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

% Moisture: 22.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	45	J	200	26
120-12-7	Anthracene	62		43	21
56-55-3	Benzo[a]anthracene	310		41	20
50-32-8	Benzo[a]pyrene	360		53	27
205-99-2	Benzo[b]fluoranthene	550		62	31
191-24-2	Benzo[g,h,i]perylene	400		100	22
207-08-9	Benzo[k]fluoranthene	150		41	18
218-01-9	Chrysene	390		46	23
53-70-3	Dibenz(a,h)anthracene	100		100	21
206-44-0	Fluoranthene	430		100	20
86-73-7	Fluorene	32	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	240		100	36
90-12-0	1-Methylnaphthalene	210		200	22
91-57-6	2-Methylnaphthalene	270		200	36
91-20-3	Naphthalene	160	J	200	22
85-01-8	Phenanthrene	370		41	20
129-00-0	Pyrene	380		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05036.D
Lab Smp Id: 680-90723-A-38-A Client Smp ID: HP0331A-CS-SP
Inj Date : 05-JUN-2013 22:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-38-a
Misc Info : 680-90723-A-38-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 36
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	15.140	Weight Extracted
M	22.306	% 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	4.039	4.039	(1.000)	2149259	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1509395	40.0000	
* 10 Phenanthrene-d10	188	6.098	6.092	(1.000)	2741220	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.041)	103405	2.42159	823.4657
* 18 Chrysene-d12	240	8.056	8.056	(1.000)	3159897	40.0000	
* 23 Perylene-d12	264	9.392	9.392	(1.000)	2973742	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	28708	0.47332	160.9545
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	26741	0.79488	270.2984
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	20465	0.61830	210.2521
5 Acenaphthylene	152	5.039	5.039	(0.983)	7634	0.13193	44.8632
9 Fluorene	166	5.474	5.468	(1.068)	4314	0.09318	31.6844(Q)
11 Phenanthrene	178	6.109	6.110	(1.002)	88520	1.09301	371.6801
12 Anthracene	178	6.145	6.145	(1.008)	13694	0.18251	62.0643
13 Carbazole	167	6.251	6.251	(1.025)	10475	0.26432	89.8812

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.962	6.962	(1.142)	105848	1.27867	434.8121
16 Pyrene	202	7.133	7.133	(0.885)	94320	1.10539	375.8904
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	80133	0.91967	312.7341
19 Chrysene	228	8.074	8.074	(1.002)	100077	1.14078	387.9239
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	117384	1.60661	546.3283(M)
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.959)	36890	0.45206	153.7240(QM)
22 Benzo(a)pyrene	252	9.327	9.327	(0.993)	71595	1.05893	360.0909
24 Indeno(1,2,3-cd)pyrene	276	10.762	10.768	(1.146)	44565	0.71876	244.4150(M)
25 Dibenzo(a,h)anthracene	278	10.780	10.786	(1.148)	18754	0.29547	100.4750
26 Benzo(g,h,i)perylene	276	11.191	11.186	(1.192)	81669	1.18216	401.9944

QC Flag Legend

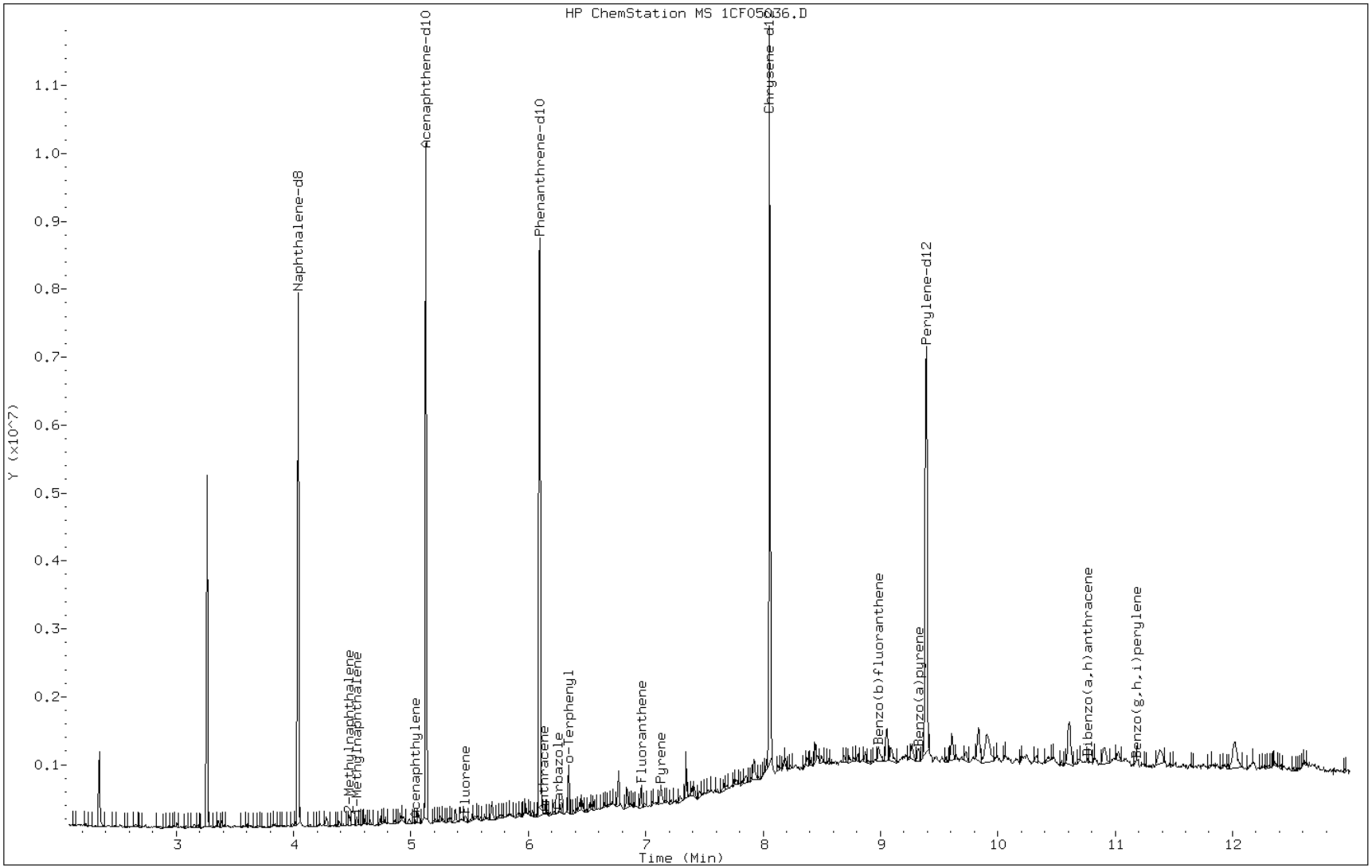
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC



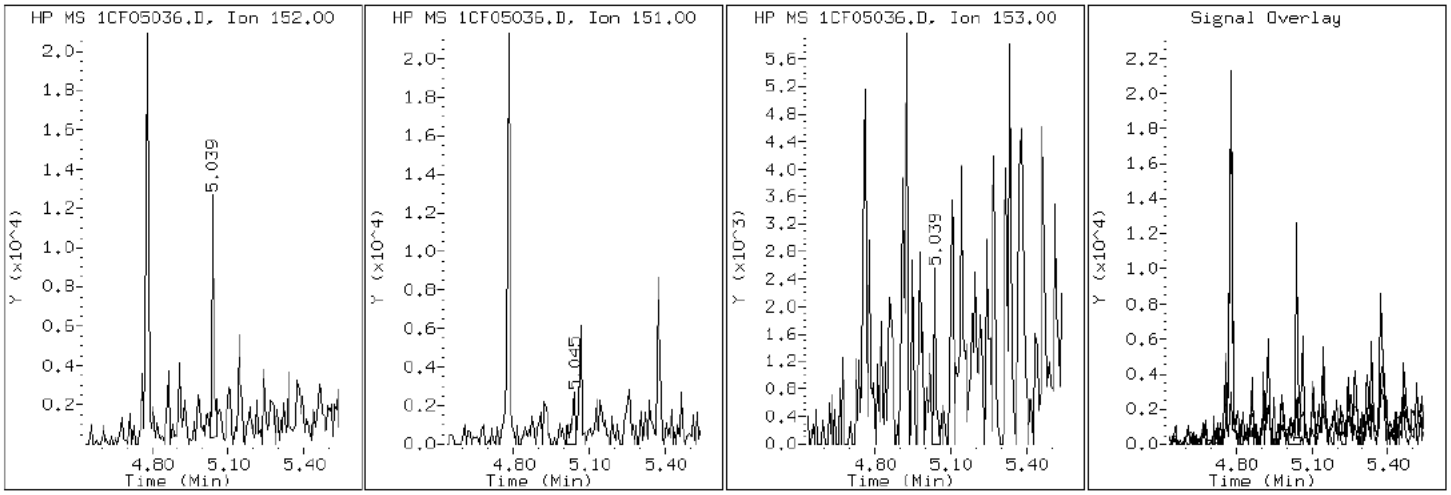
Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC

5 Acenaphthylene



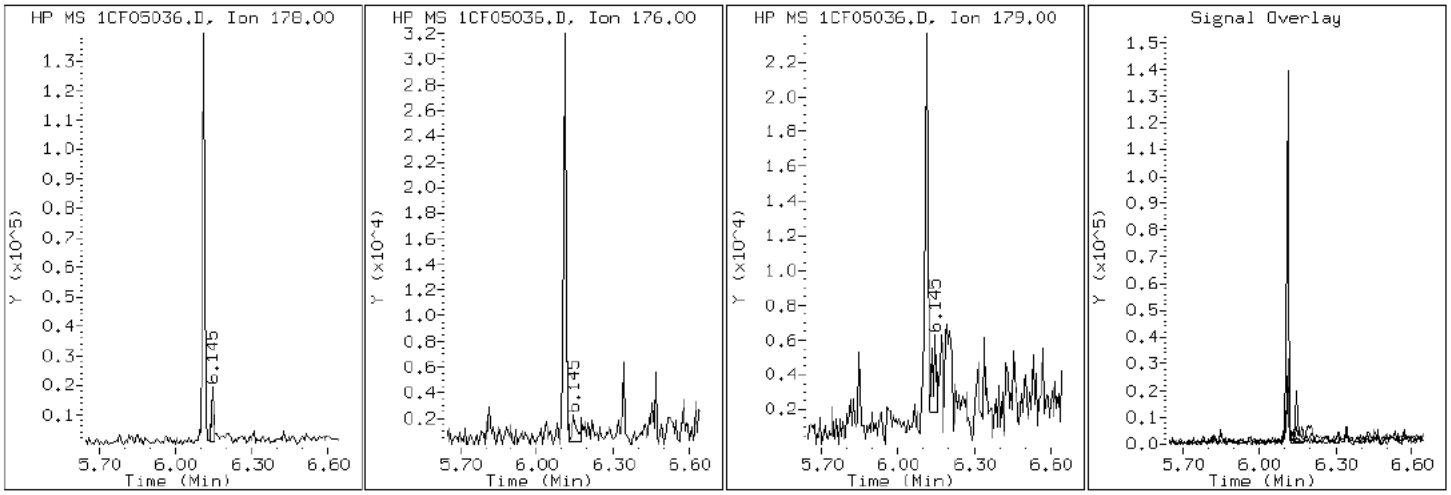
Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC

12 Anthracene



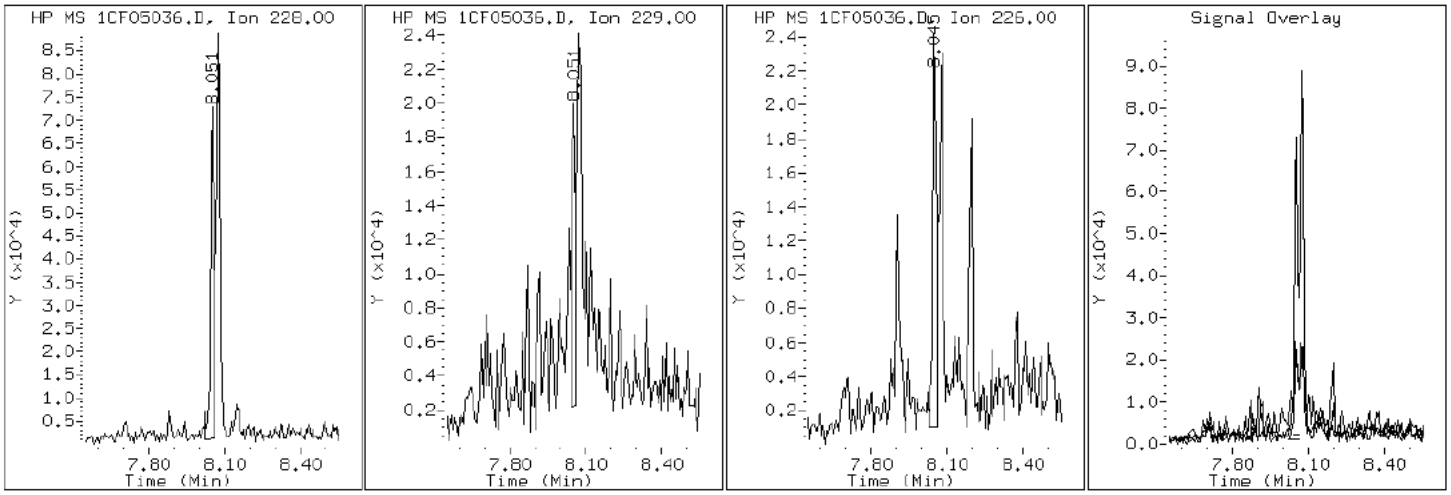
Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC

17 Benzo(a)anthracene



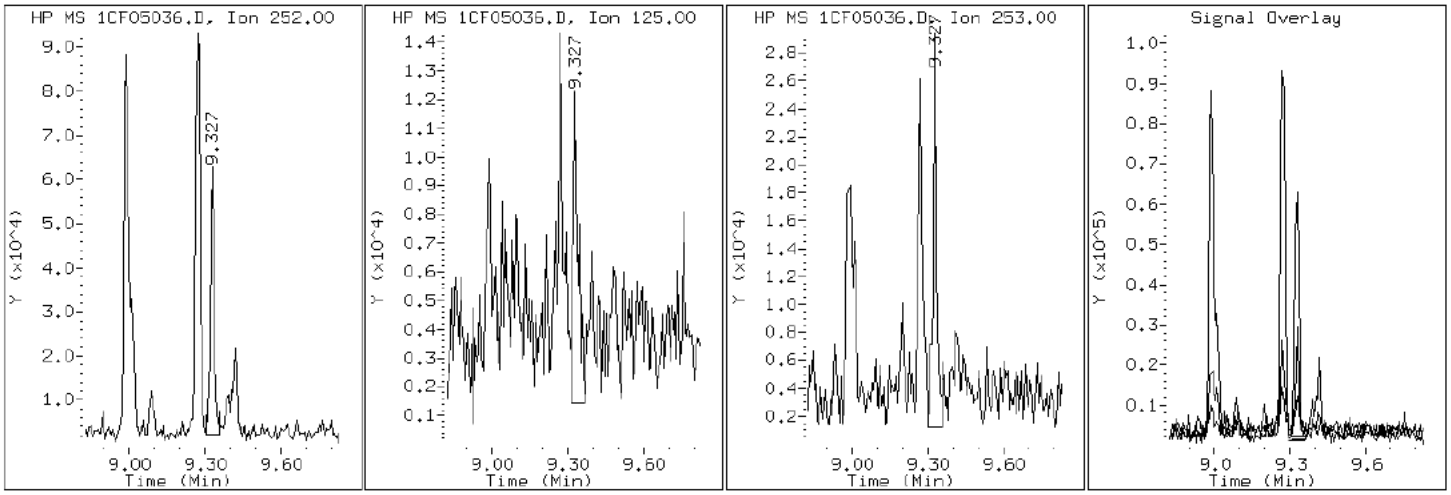
Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC

22 Benzo(a)pyrene



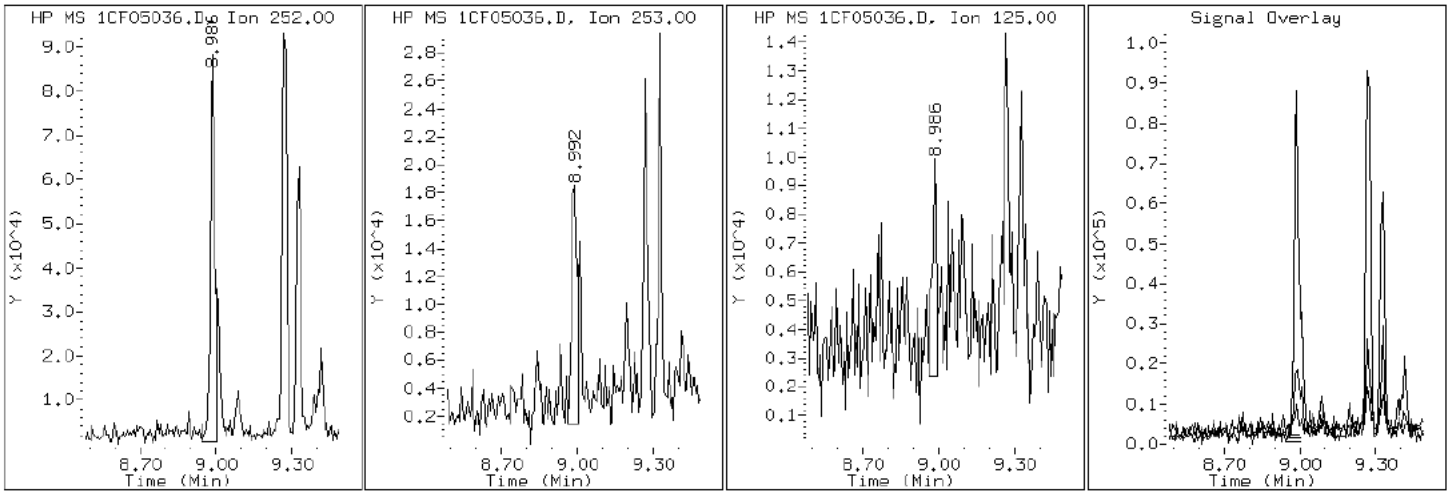
Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC

20 Benzo(b)fluoranthene



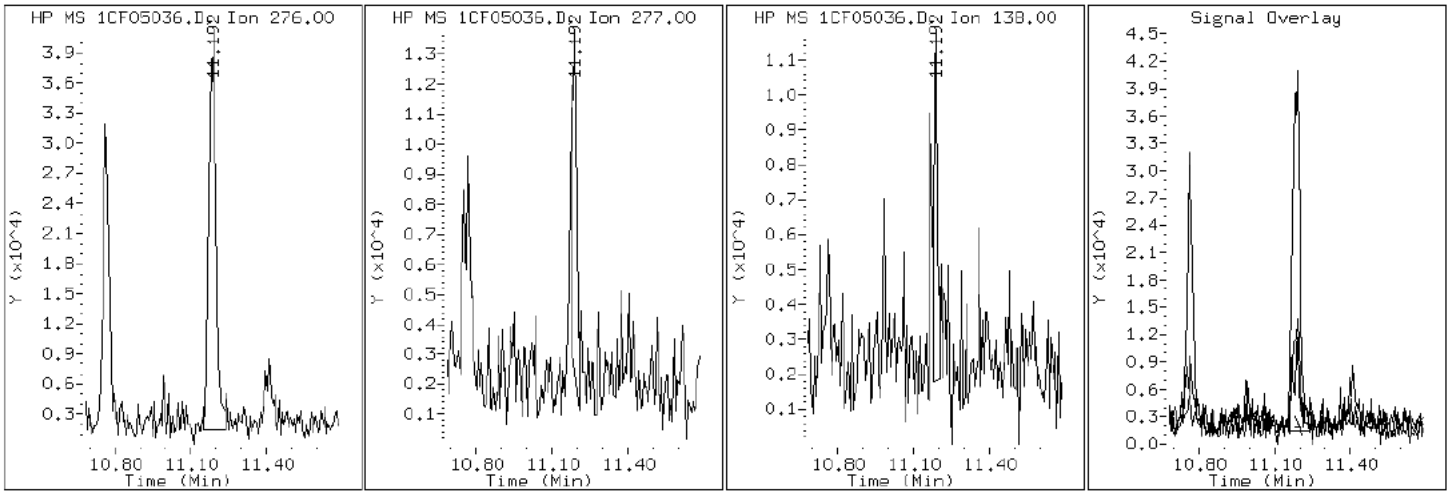
Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC

26 Benzo(g,h,i)perylene



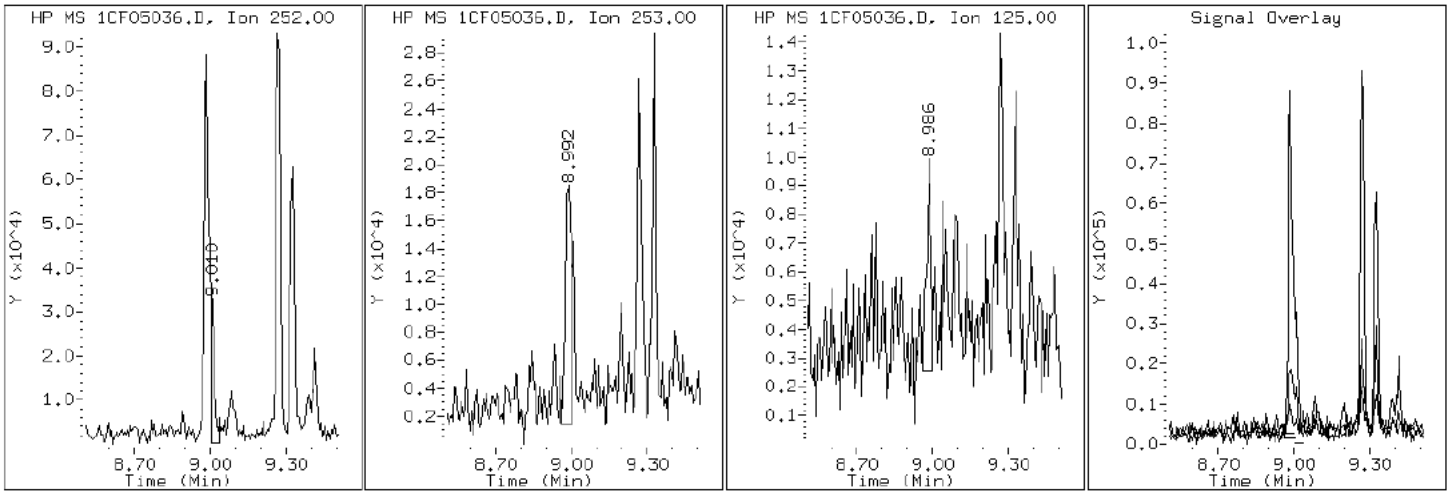
Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC

21 Benzo(k)fluoranthene



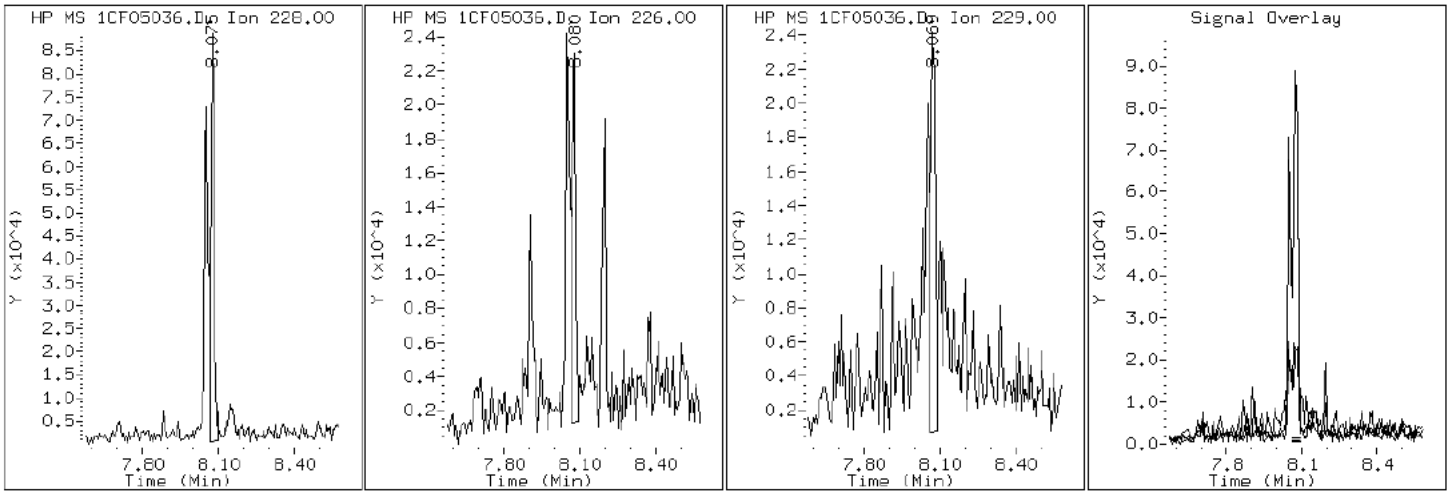
Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC

19 Chrysene



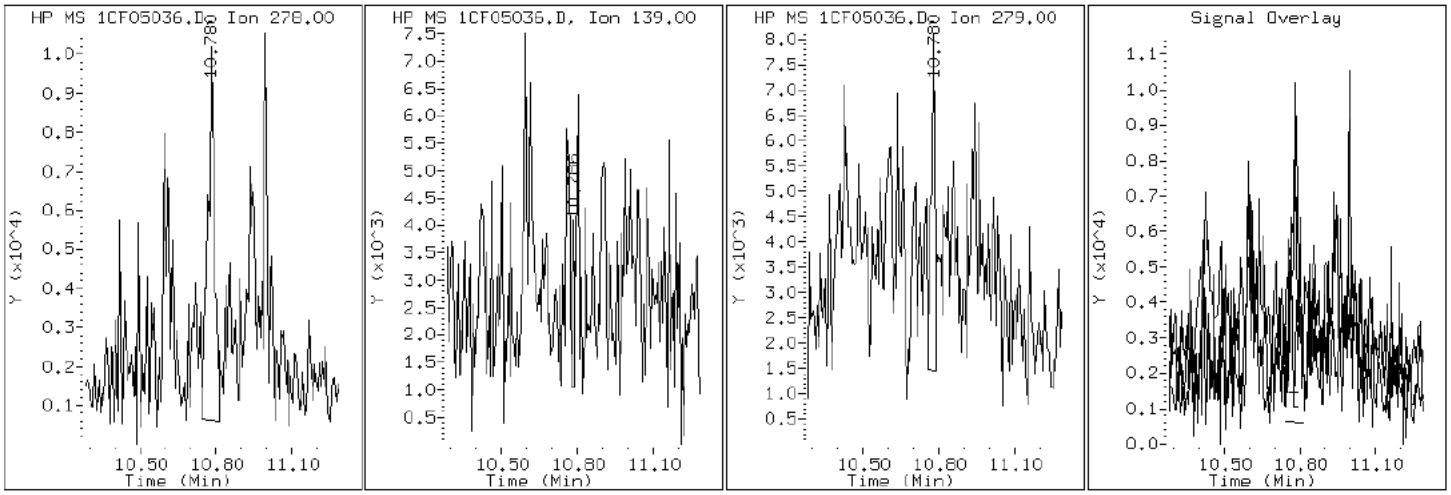
Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC

25 Dibenzo(a,h)anthracene



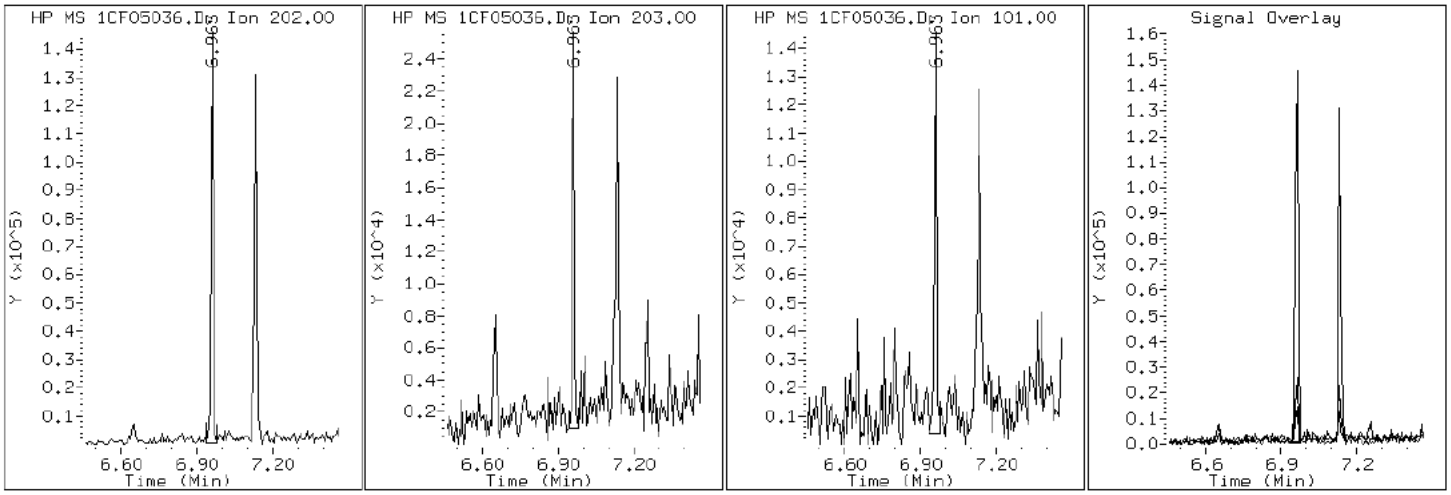
Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC

15 Fluoranthene



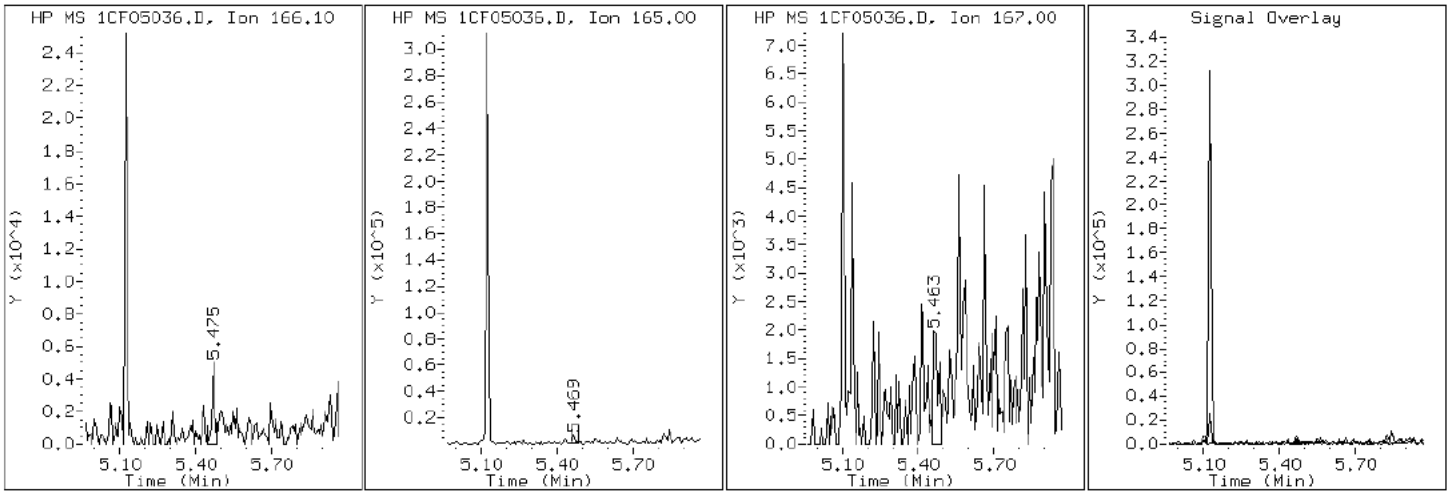
Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC

9 Fluorene



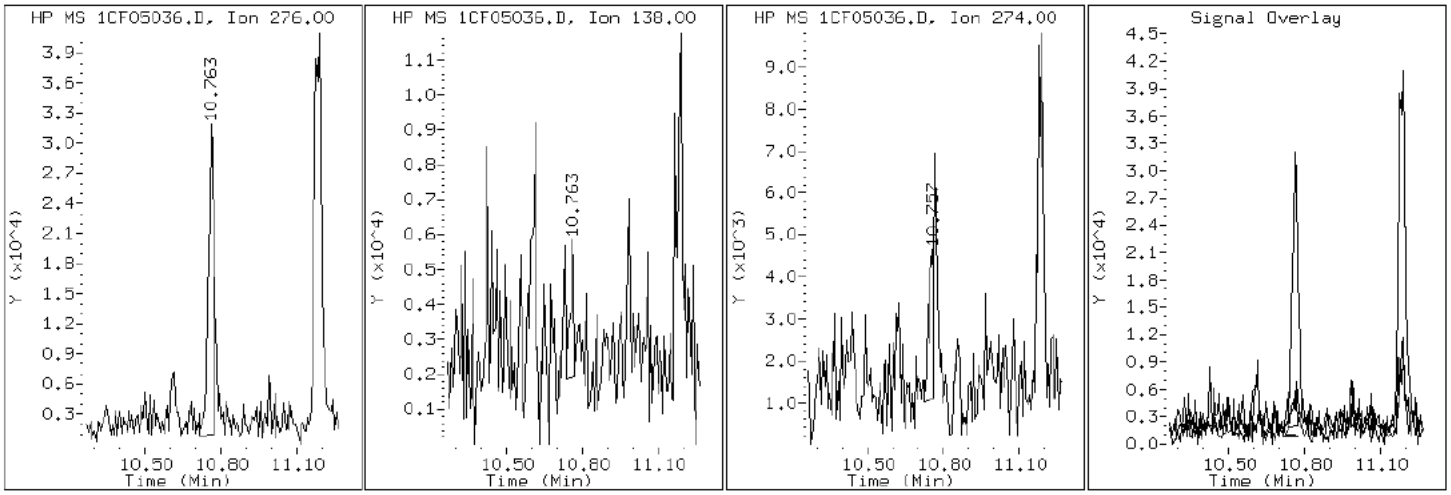
Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC

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



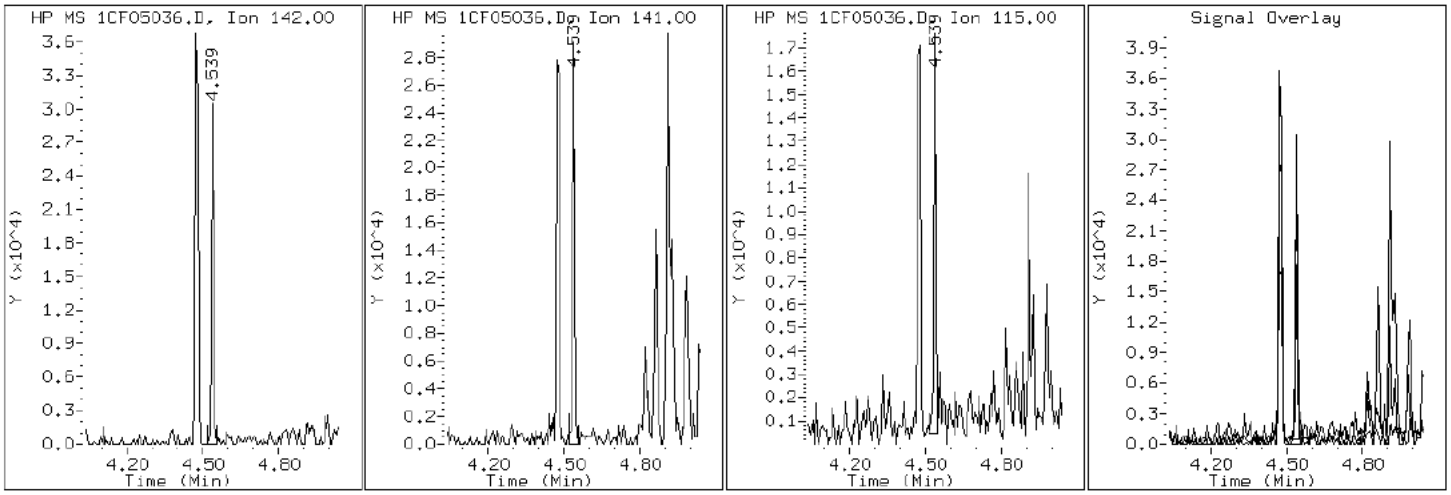
Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC

4 1-Methylnaphthalene



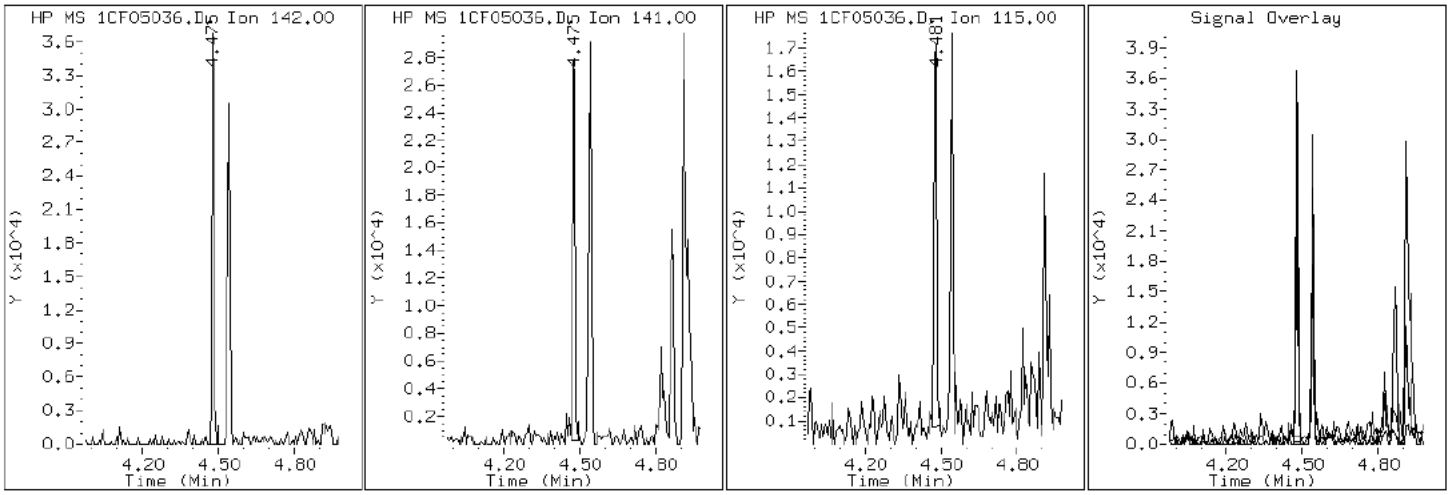
Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC

3 2-Methylnaphthalene



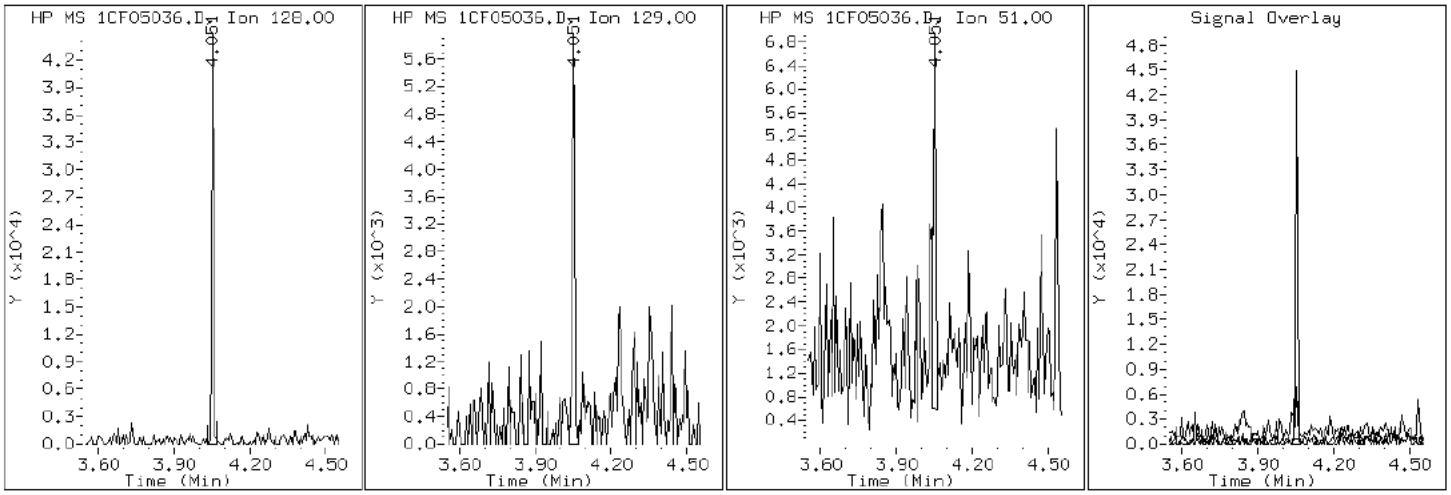
Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC

2 Naphthalene



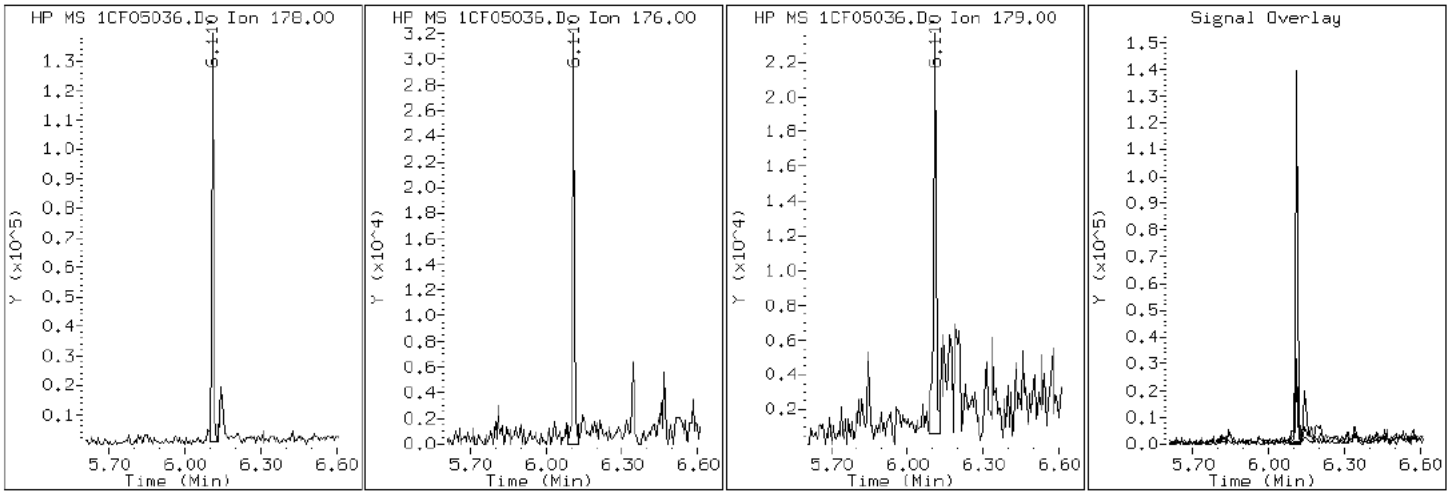
Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC

11 Phenanthrene



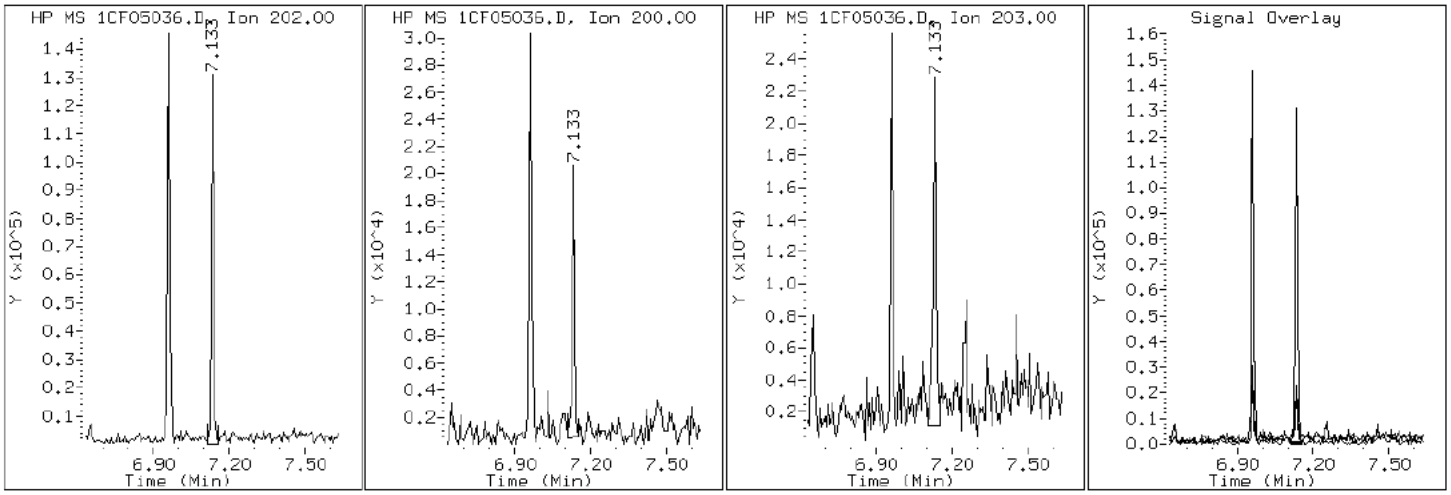
Data File: 1CF05036.D

Date: 05-JUN-2013 22:34

Client ID: HP0331A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-38-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF05036.D
Inj. Date and Time: 05-JUN-2013 22:34
Instrument ID: BSMC5973.i
Client ID: HP0331A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/06/2013

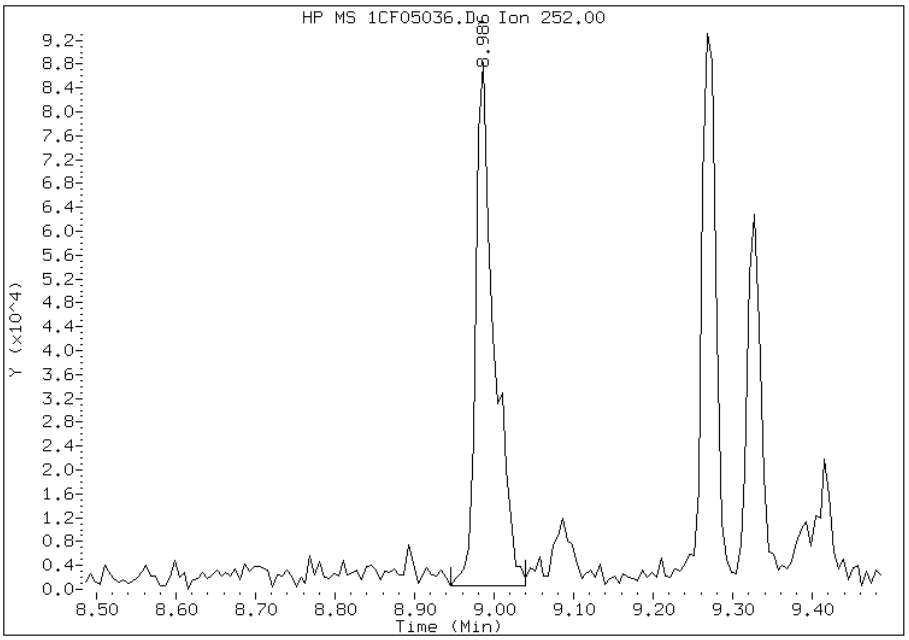
Processing Integration Results

RT: 8.99

Response: 142505

Amount: 2

Conc: 663



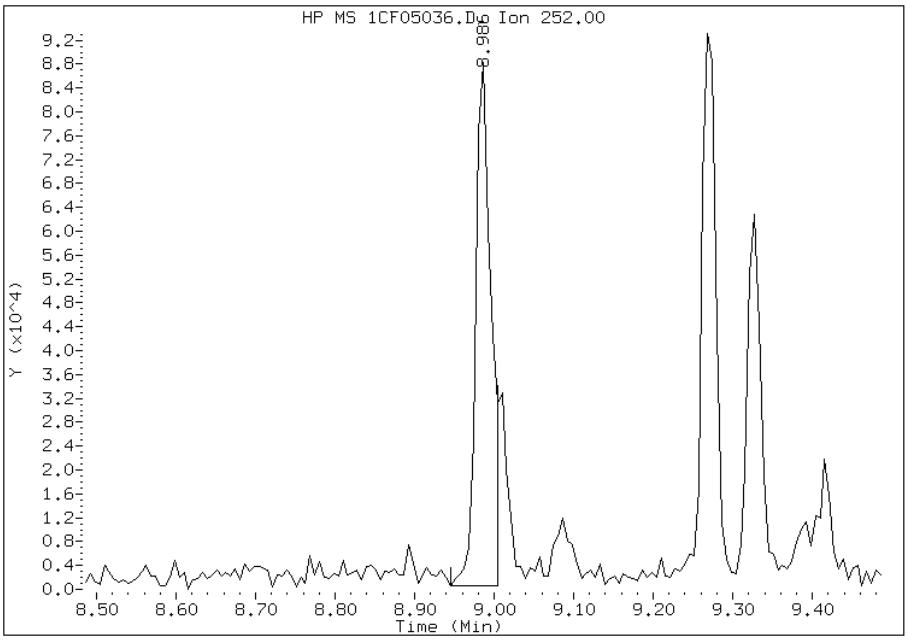
Manual Integration Results

RT: 8.99

Response: 117384

Amount: 2

Conc: 546



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF05036.D
Inj. Date and Time: 05-JUN-2013 22:34
Instrument ID: BSMC5973.i
Client ID: HP0331A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/06/2013

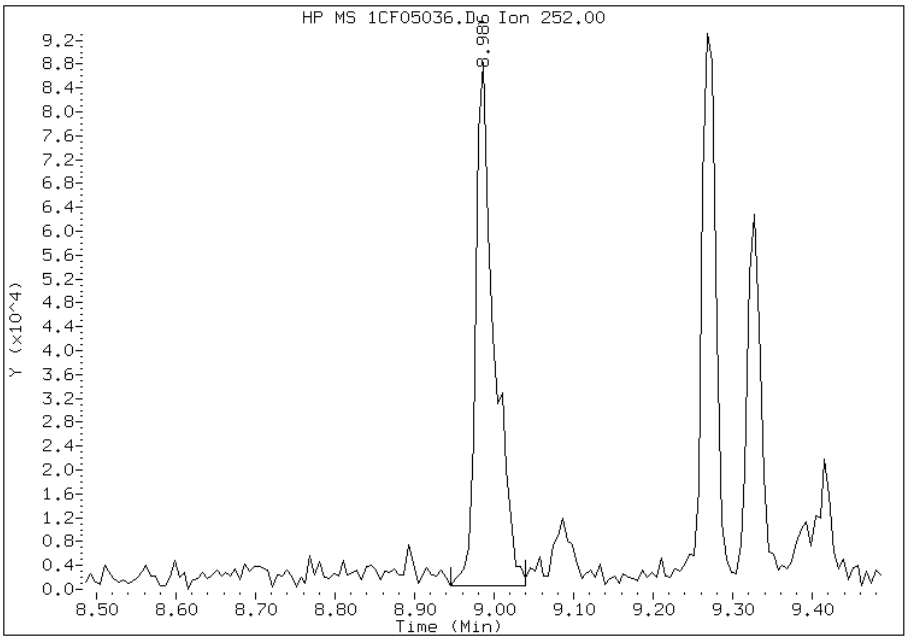
Processing Integration Results

RT: 8.99

Response: 142505

Amount: 2

Conc: 594



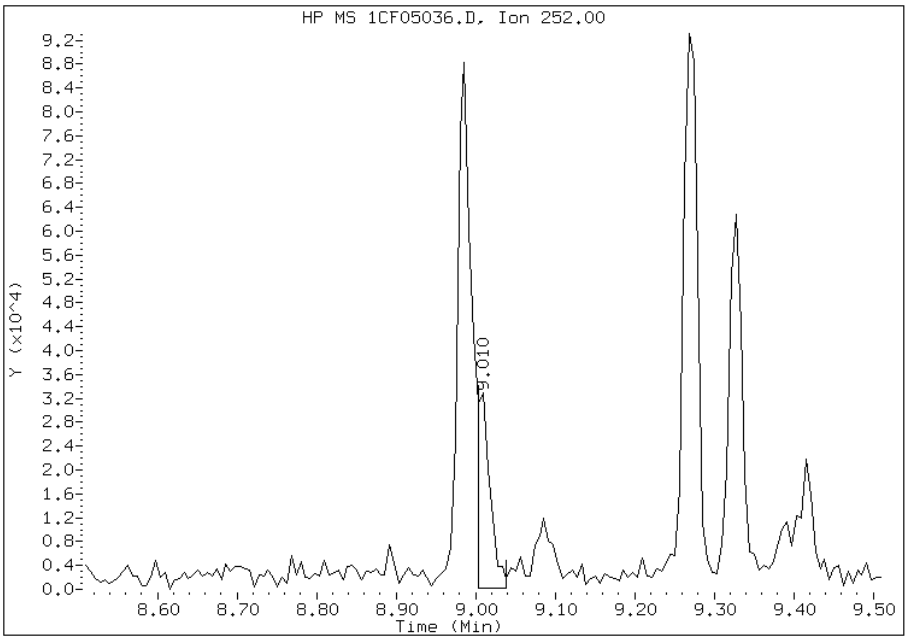
Manual Integration Results

RT: 9.01

Response: 36890

Amount: 0

Conc: 154



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:39
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF05036.D
Inj. Date and Time: 05-JUN-2013 22:34
Instrument ID: BSMC5973.i
Client ID: HP0331A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

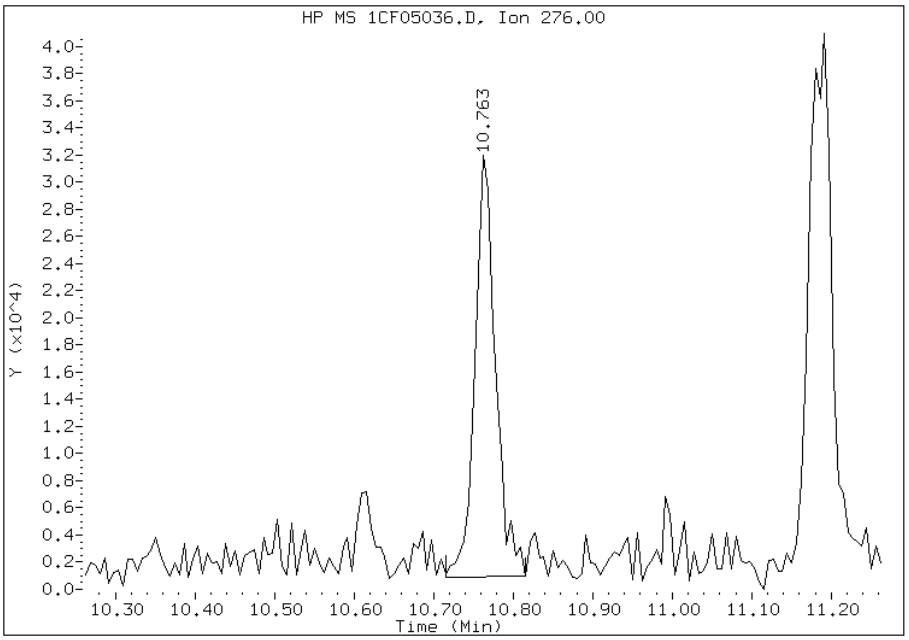
Processing Integration Results

RT: 10.76

Response: 55458

Amount: 1

Conc: 291



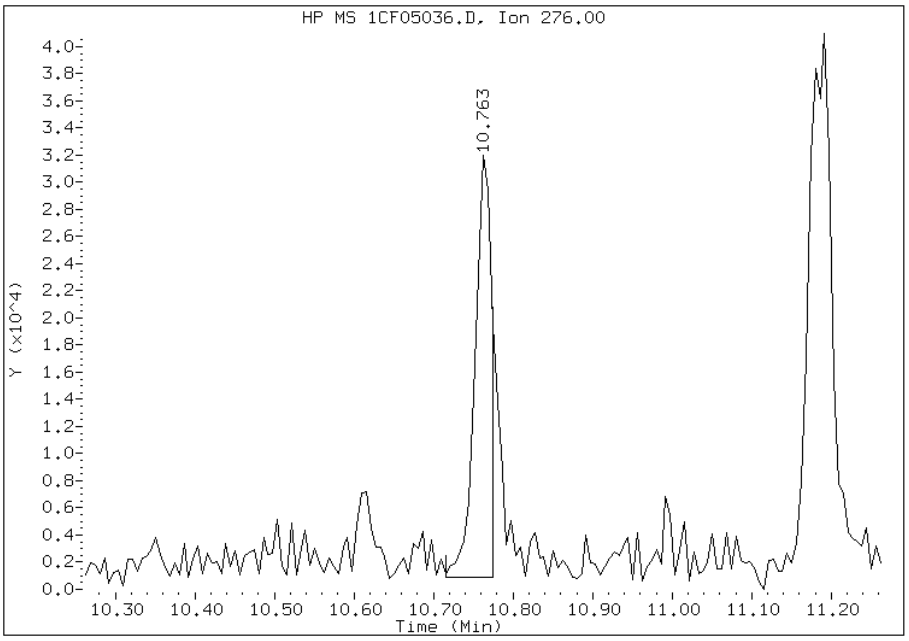
Manual Integration Results

RT: 10.76

Response: 44565

Amount: 1

Conc: 244



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: HP0332A-CS-SP | Lab Sample ID: 680-90723-39

Matrix: Solid | Lab File ID: 1CF05037.D

Analysis Method: 8270C LL | Date Collected: 05/24/2013 08:37

Extract. Method: 3546 | Date Extracted: 06/03/2013 13:04

Sample wt/vol: 15.07(g) | Date Analyzed: 06/05/2013 22:52

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

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

% Moisture: 22.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	41	J	200	26
120-12-7	Anthracene	130		43	21
56-55-3	Benzo[a]anthracene	1300		41	20
50-32-8	Benzo[a]pyrene	1200		53	27
205-99-2	Benzo[b]fluoranthene	2100		62	31
191-24-2	Benzo[g,h,i]perylene	760		100	23
207-08-9	Benzo[k]fluoranthene	730		41	18
218-01-9	Chrysene	1300		46	23
53-70-3	Dibenz(a,h)anthracene	310		100	21
206-44-0	Fluoranthene	2000		100	20
86-73-7	Fluorene	50	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	750		100	36
90-12-0	1-Methylnaphthalene	160	J	200	23
91-57-6	2-Methylnaphthalene	220		200	36
91-20-3	Naphthalene	190	J	200	23
85-01-8	Phenanthrene	540		41	20
129-00-0	Pyrene	1800		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05037.D
Lab Smp Id: 680-90723-A-39-A Client Smp ID: HP0332A-CS-SP
Inj Date : 05-JUN-2013 22:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-39-a
Misc Info : 680-90723-A-39-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 37
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	15.070	Weight Extracted
M	22.208	% 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	4.039	4.039	(1.000)	2203062	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1523093	40.0000	
* 10 Phenanthrene-d10	188	6.098	6.092	(1.000)	2891024	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.041)	80888	1.79612	612.8384
* 18 Chrysene-d12	240	8.056	8.056	(1.000)	3369375	40.0000	
* 23 Perylene-d12	264	9.392	9.392	(1.000)	2936511	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	35119	0.56489	192.7392
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	22656	0.65700	224.1696
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	16203	0.47758	162.9490
5 Acenaphthylene	152	5.039	5.039	(0.983)	7046	0.12067	41.1740
9 Fluorene	166	5.468	5.468	(1.067)	6813	0.14583	49.7562
11 Phenanthrene	178	6.109	6.110	(1.002)	136309	1.59588	544.5156
12 Anthracene	178	6.145	6.145	(1.008)	30859	0.38998	133.0612
13 Carbazole	167	6.251	6.251	(1.025)	19401	0.37735	128.7511

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.962	6.962	(1.142)	499267	5.71873	1951.2357
16 Pyrene	202	7.133	7.133	(0.885)	471163	5.17855	1766.9244
17 Benzo(a)anthracene	228	8.050	8.051	(0.999)	343768	3.70006	1262.4630
19 Chrysene	228	8.080	8.074	(1.003)	350630	3.74835	1278.9413
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	440051	6.09923	2081.0626
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.959)	172633	2.14232	730.9610
22 Benzo(a)pyrene	252	9.327	9.327	(0.993)	250619	3.49735	1193.2996
24 Indeno(1,2,3-cd)pyrene	276	10.762	10.768	(1.146)	160459	2.20149	751.1515(M)
25 Dibenzo(a,h)anthracene	278	10.786	10.786	(1.148)	56373	0.89942	306.8830
26 Benzo(g,h,i)perylene	276	11.186	11.186	(1.191)	152825	2.24019	764.3539

QC Flag Legend

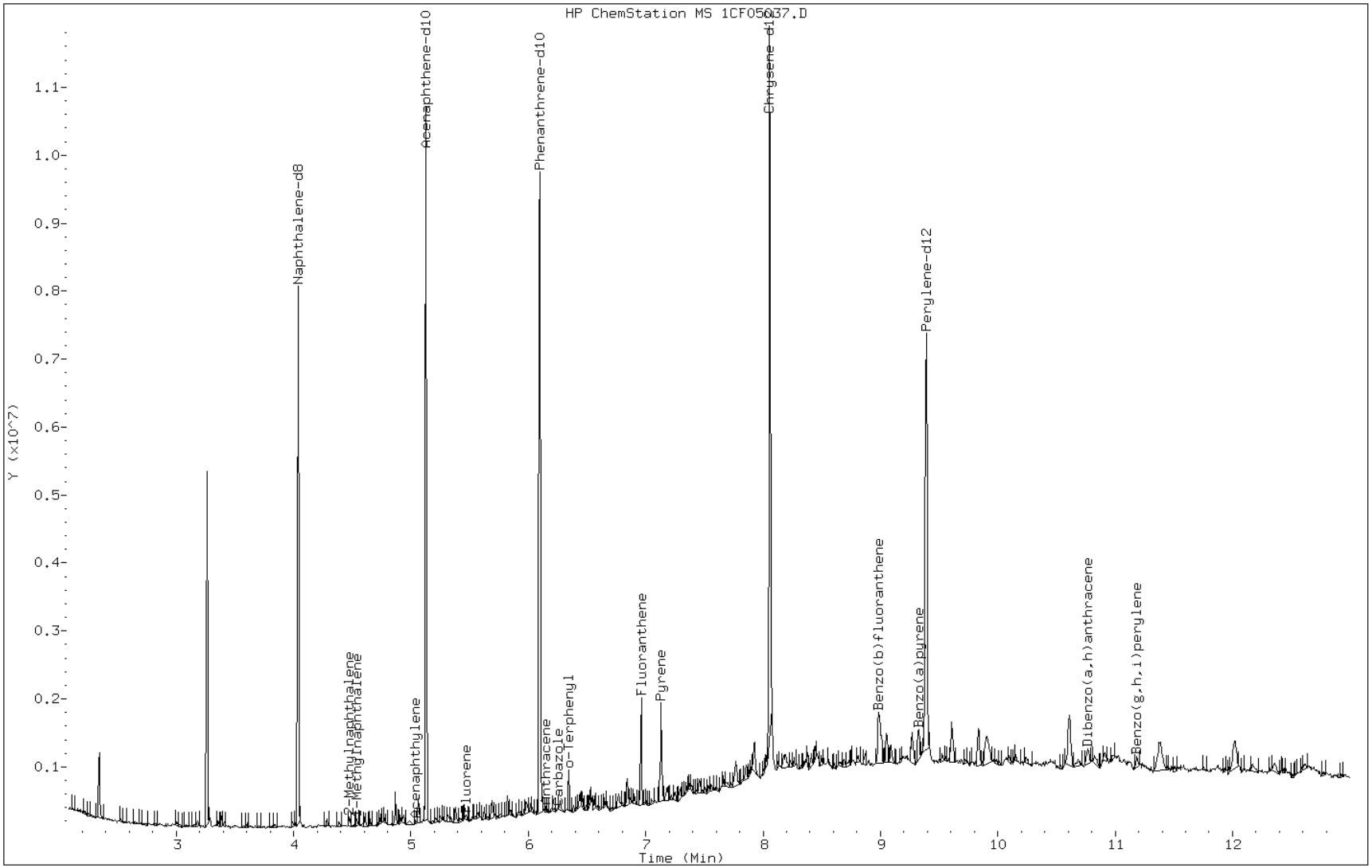
M - Compound response manually integrated.

Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC



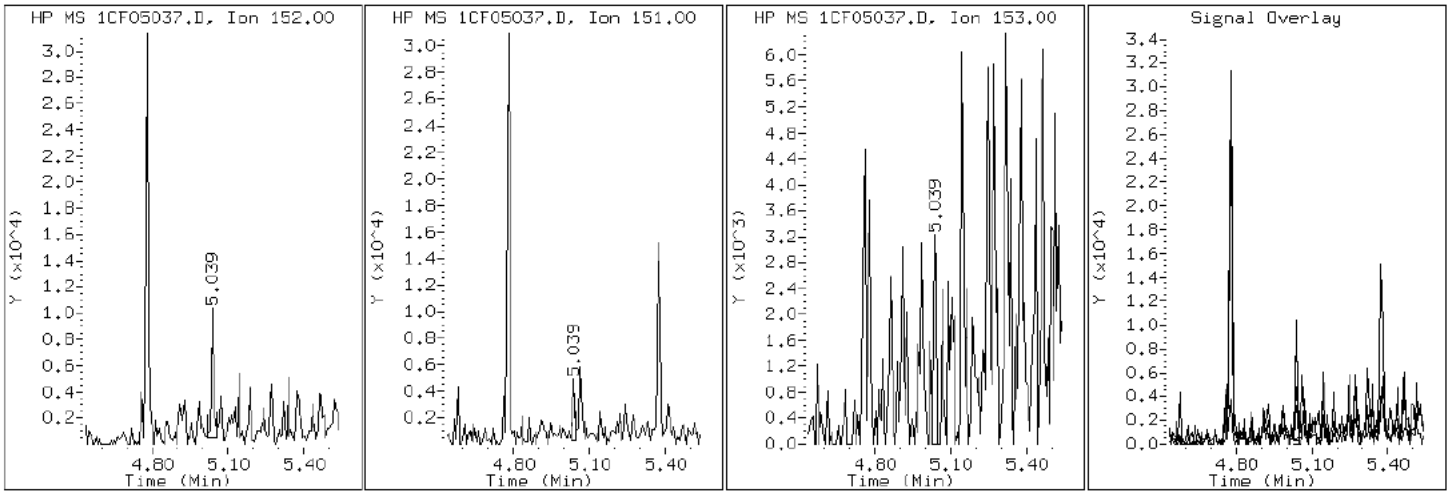
Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC

5 Acenaphthylene



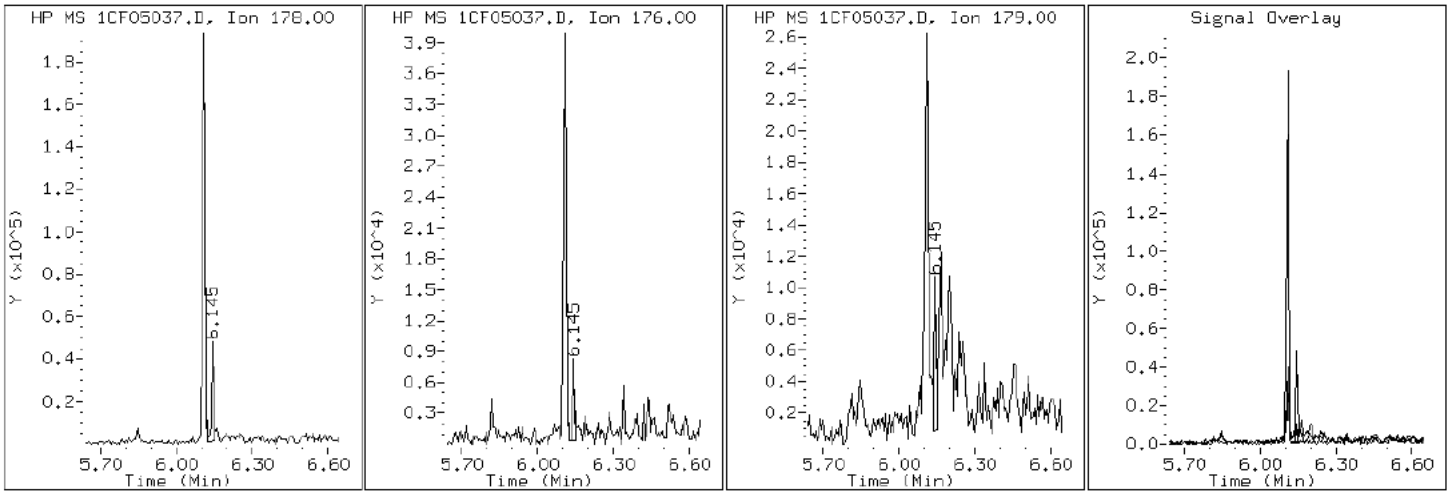
Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC

12 Anthracene



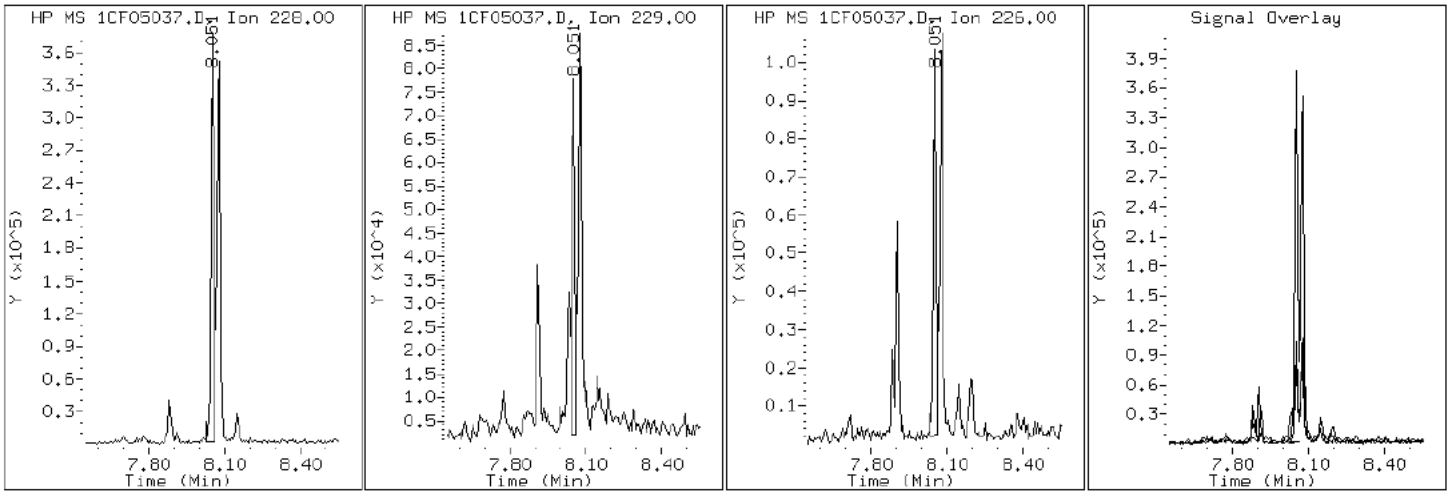
Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC

17 Benzo(a)anthracene



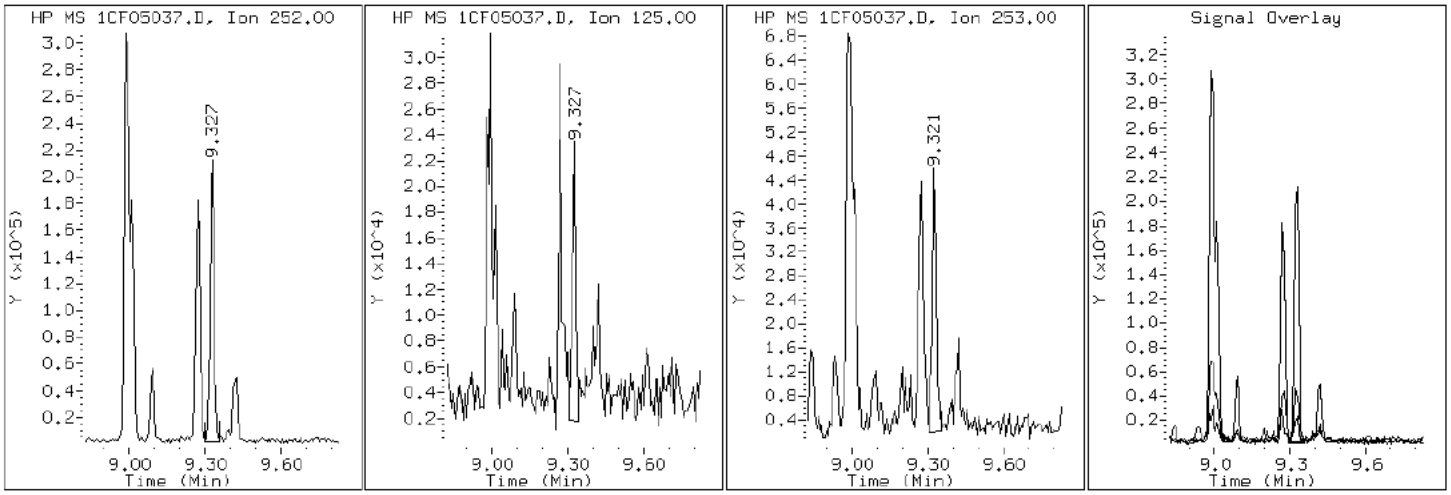
Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC

22 Benzo(a)pyrene



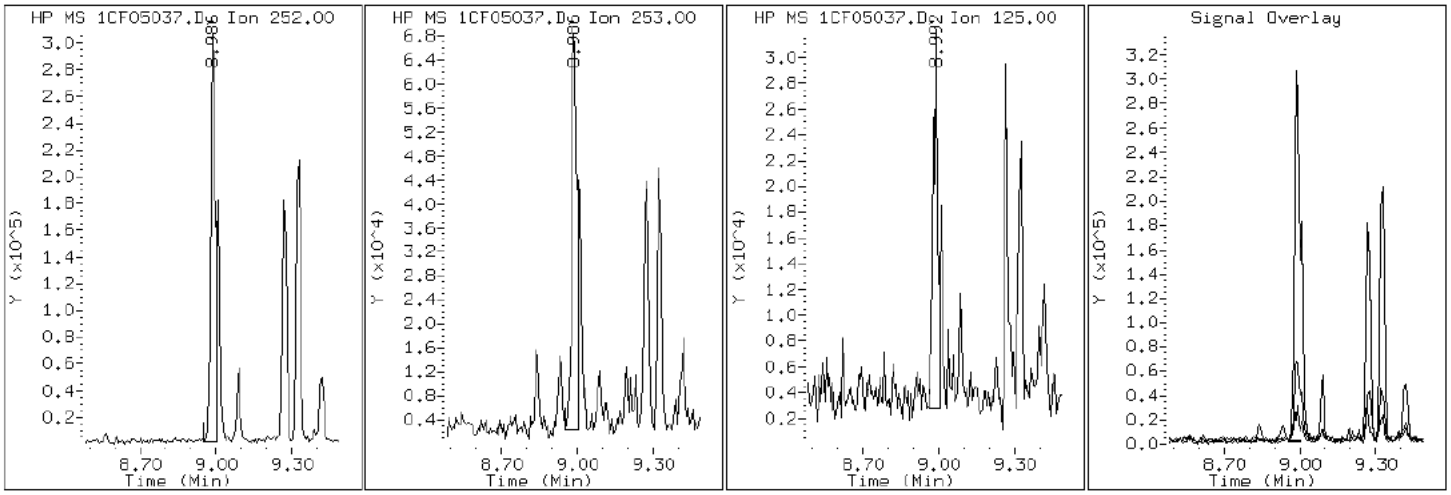
Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC

20 Benzo(b)fluoranthene



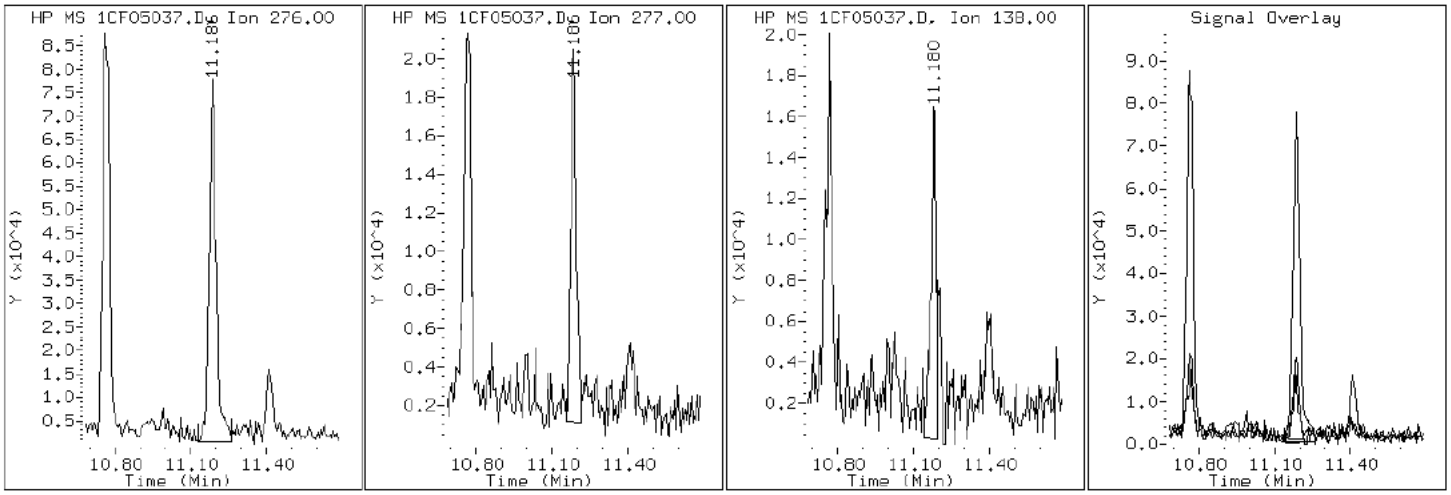
Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC

26 Benzo(g,h,i)perylene



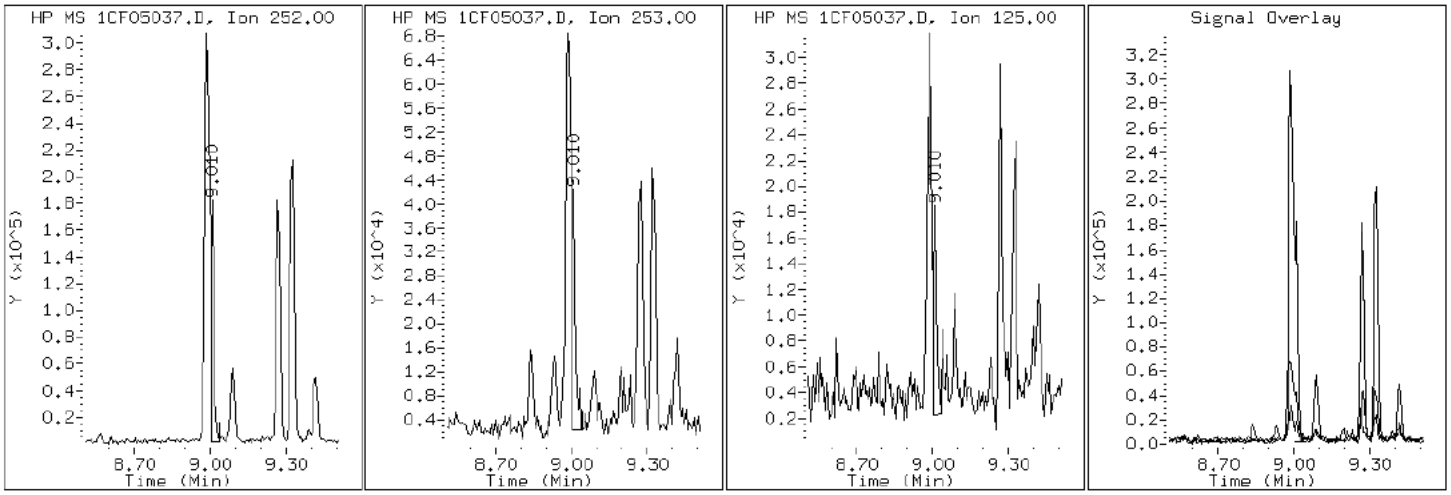
Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC

21 Benzo(k)fluoranthene



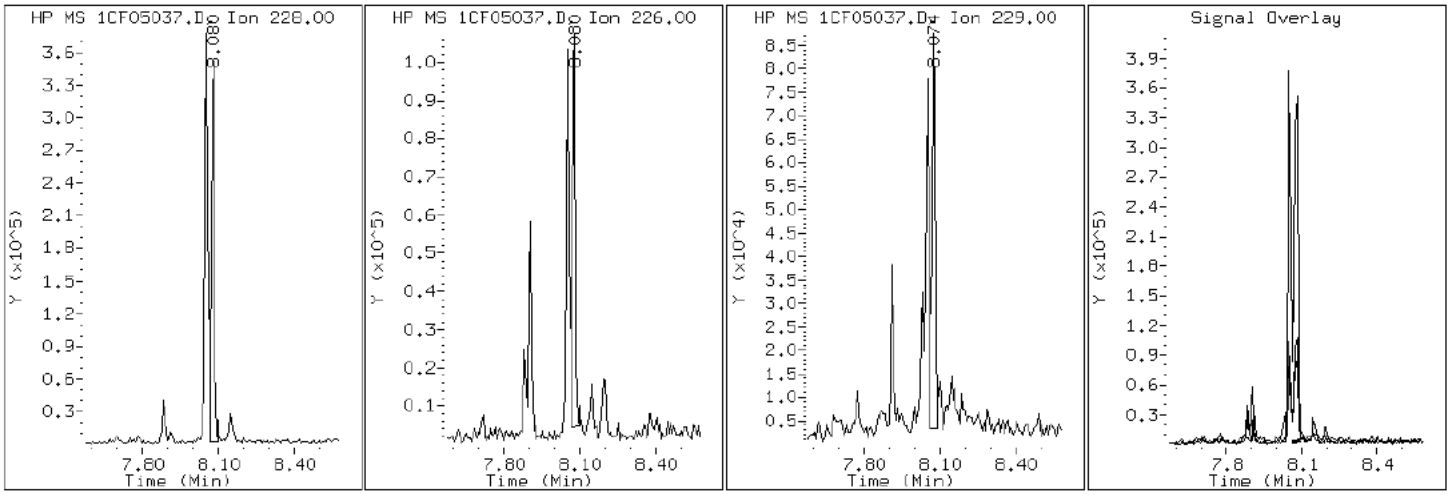
Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC

19 Chrysene



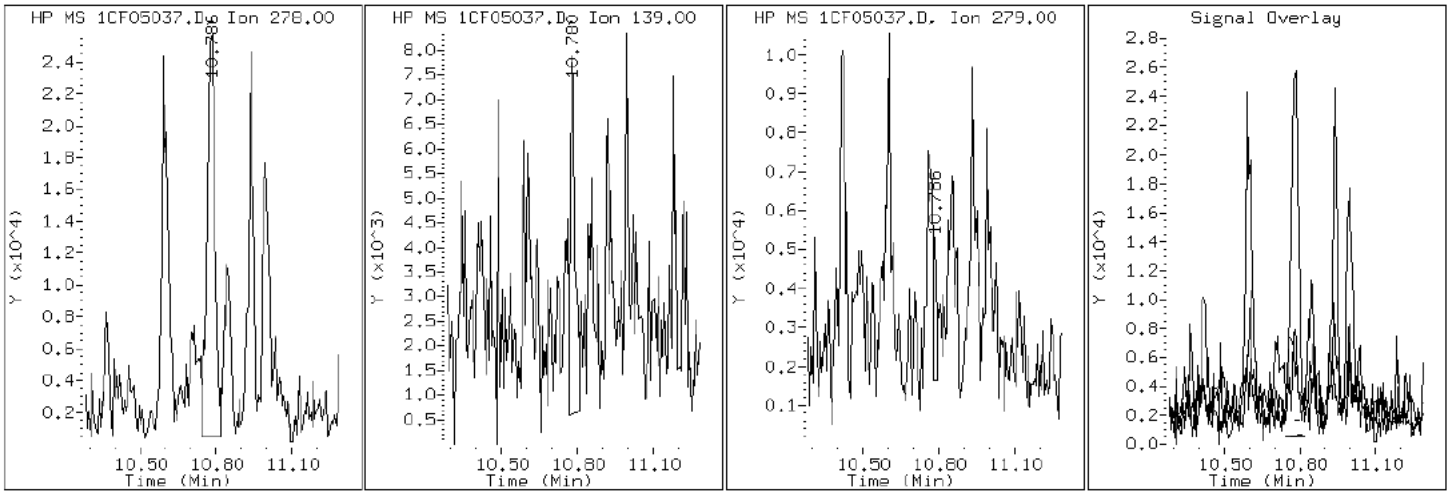
Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC

25 Dibenzo(a,h)anthracene



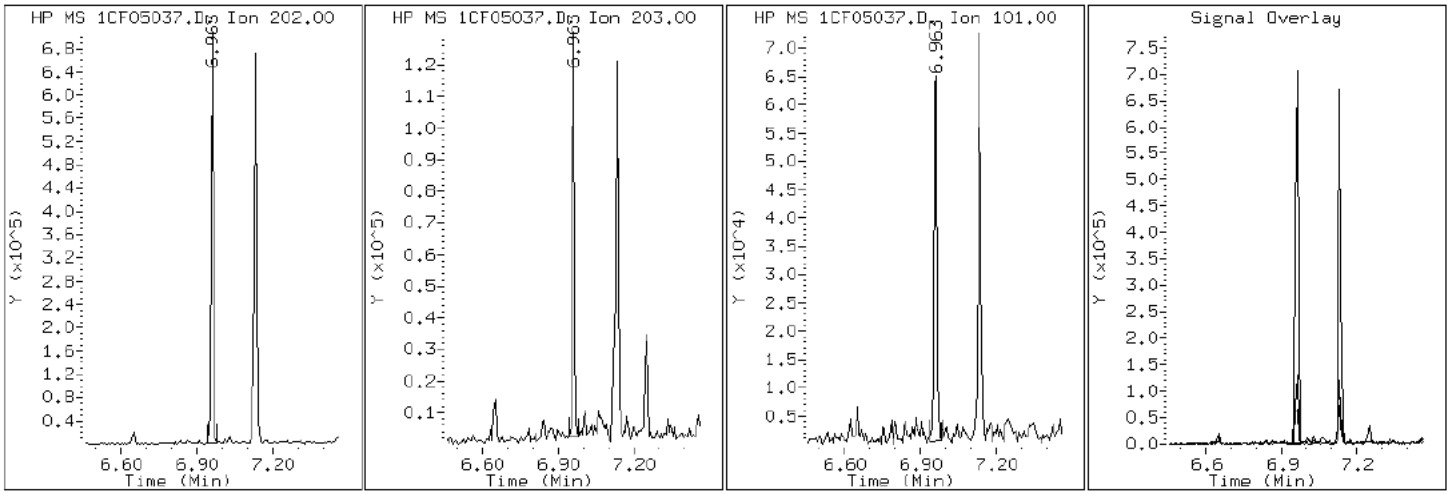
Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC

15 Fluoranthene



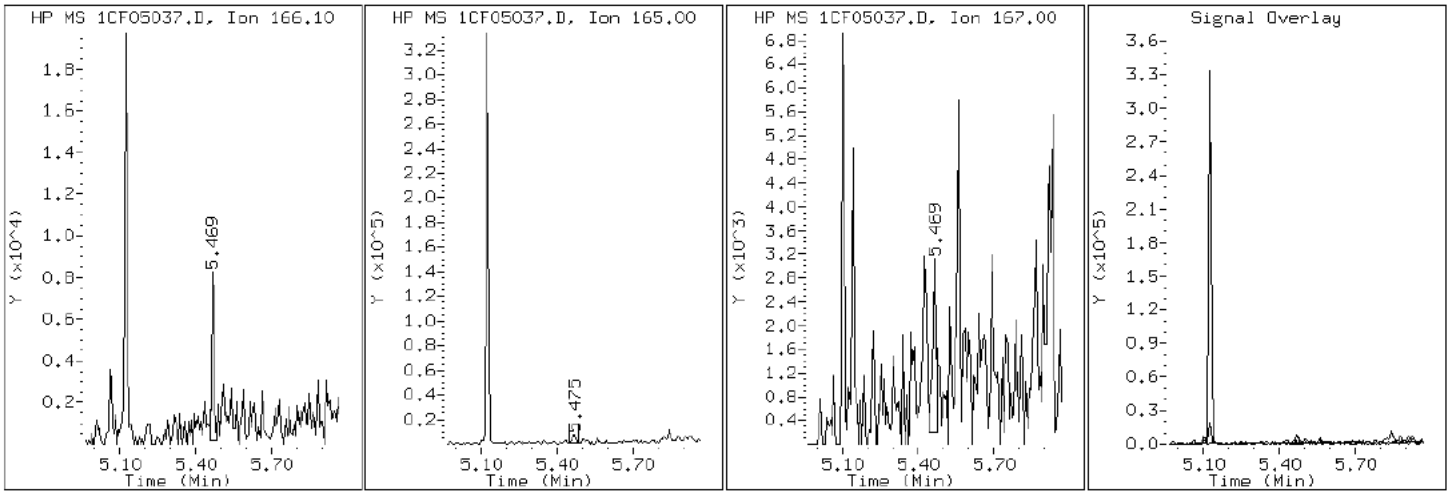
Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC

9 Fluorene



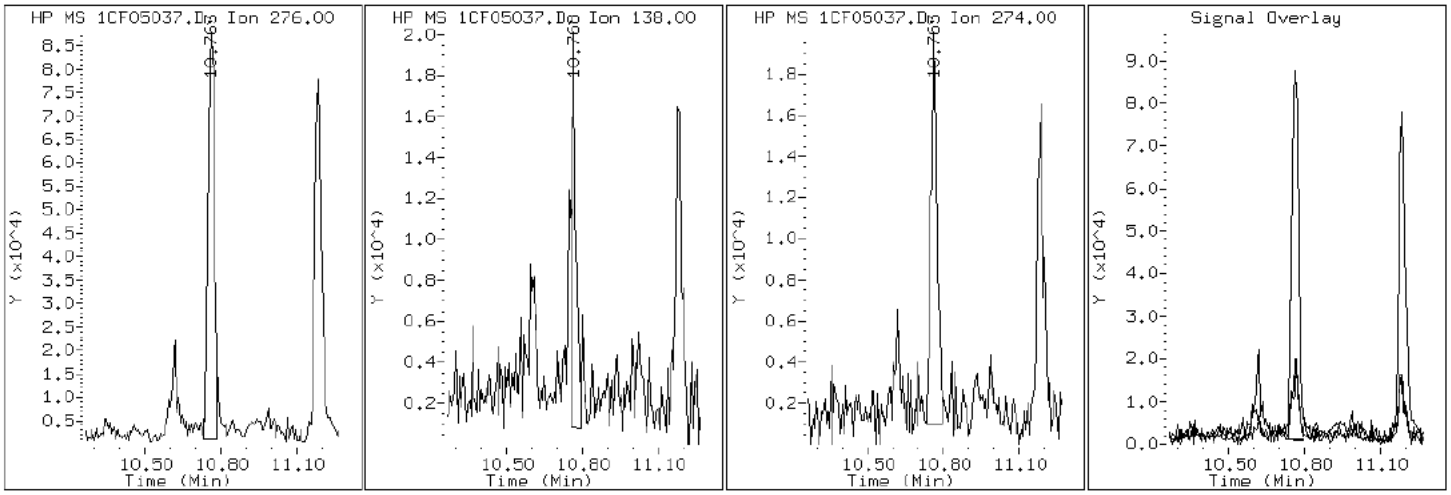
Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC

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



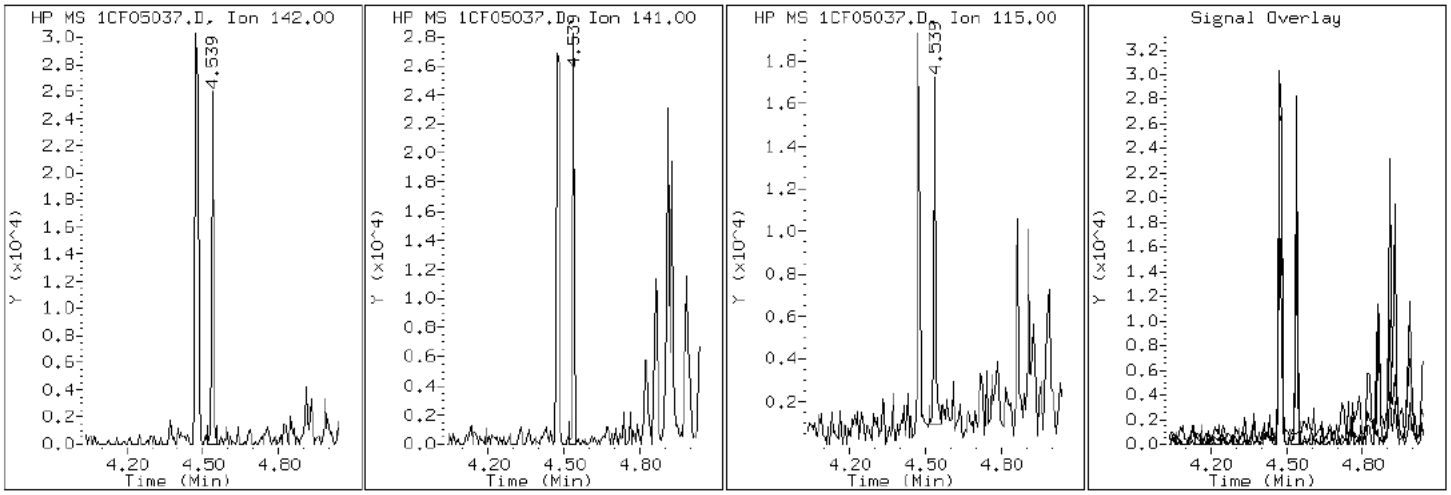
Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC

4 1-Methylnaphthalene



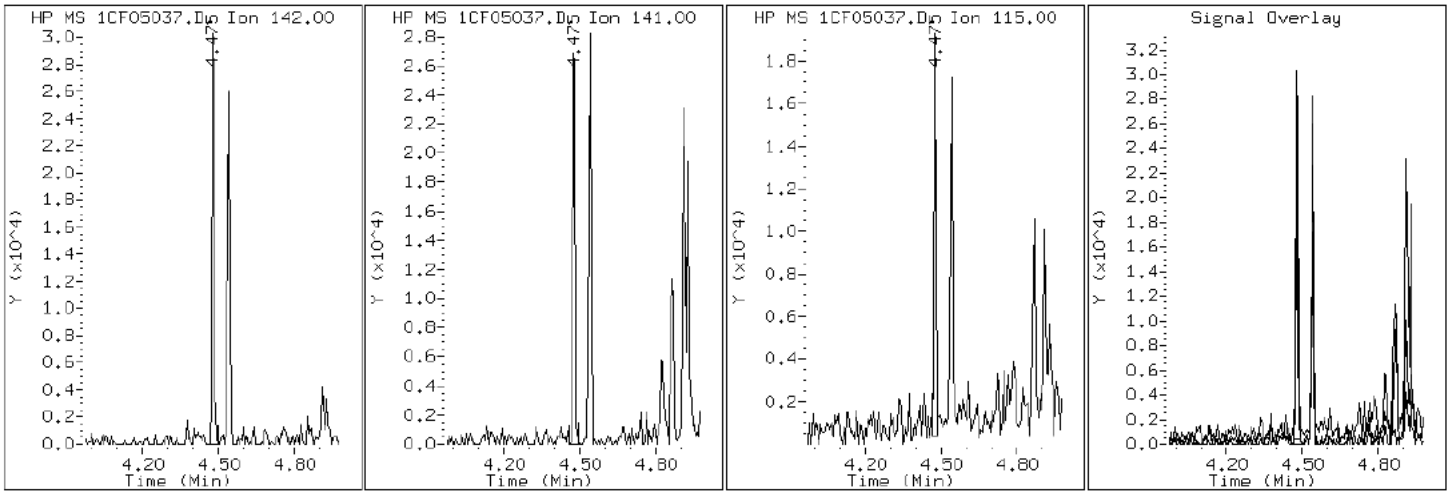
Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC

3 2-Methylnaphthalene



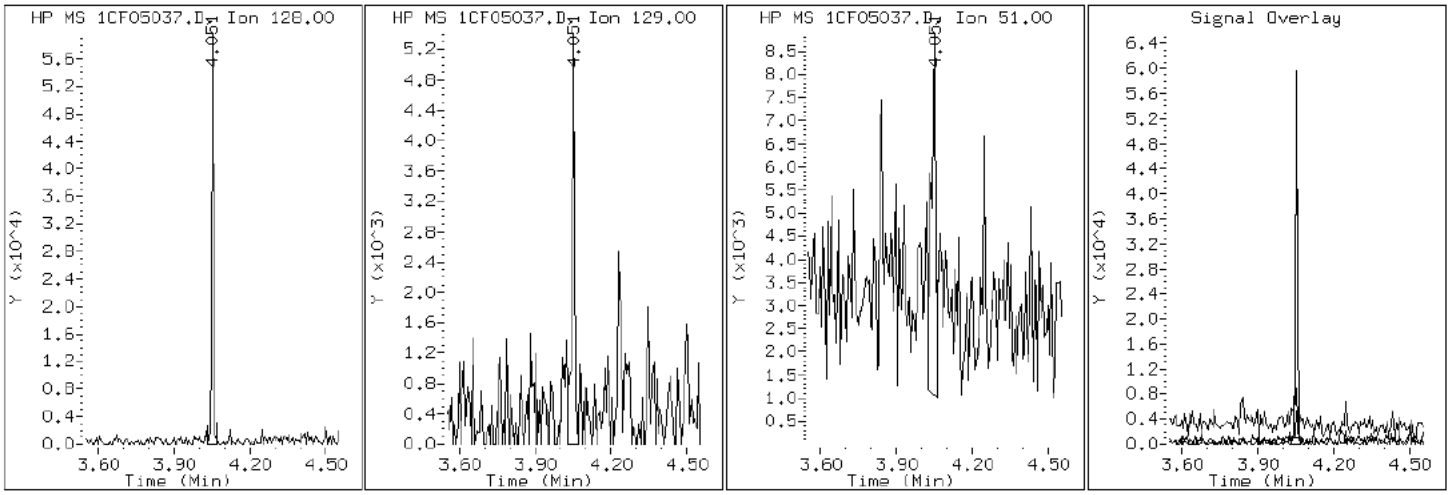
Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC

2 Naphthalene



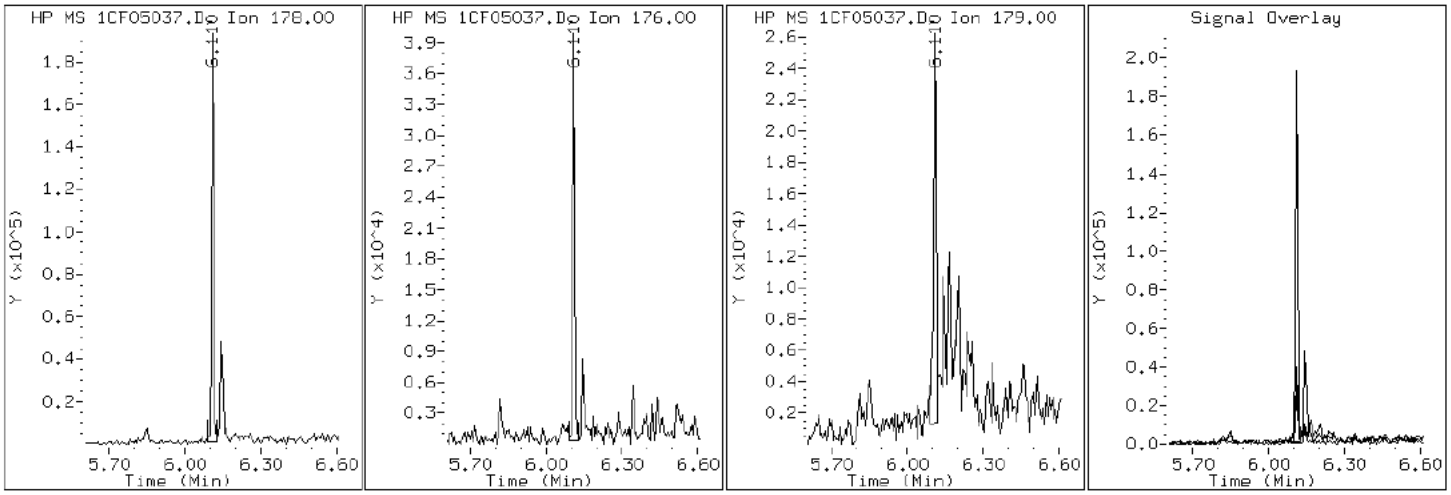
Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC

11 Phenanthrene



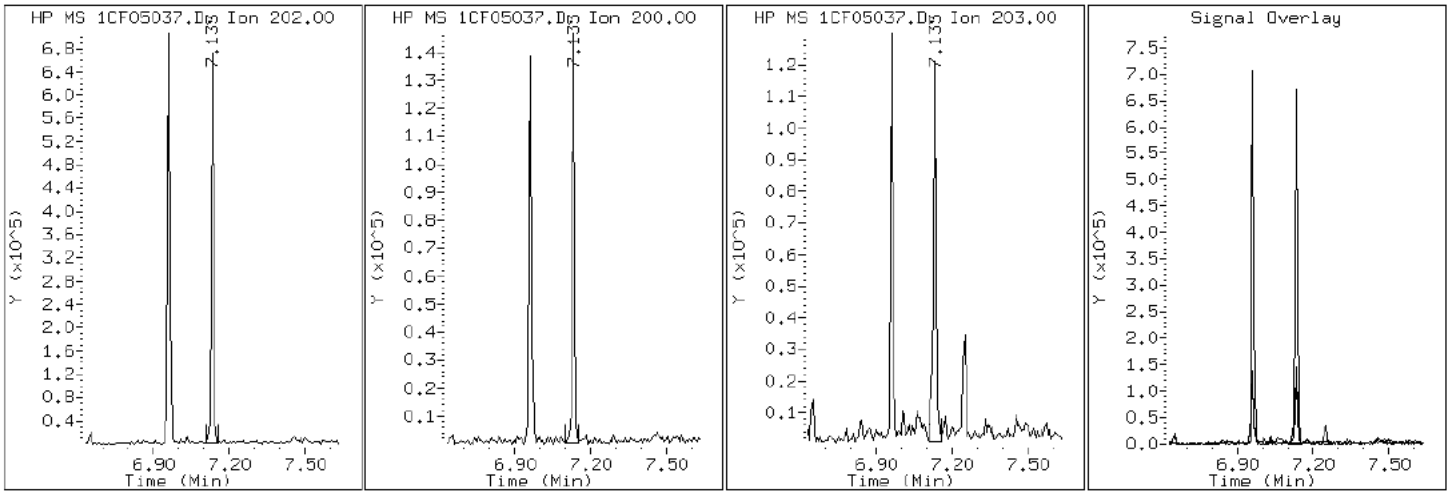
Data File: 1CF05037.D

Date: 05-JUN-2013 22:52

Client ID: HP0332A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90723-a-39-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF05037.D
Inj. Date and Time: 05-JUN-2013 22:52
Instrument ID: BSMC5973.i
Client ID: HP0332A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

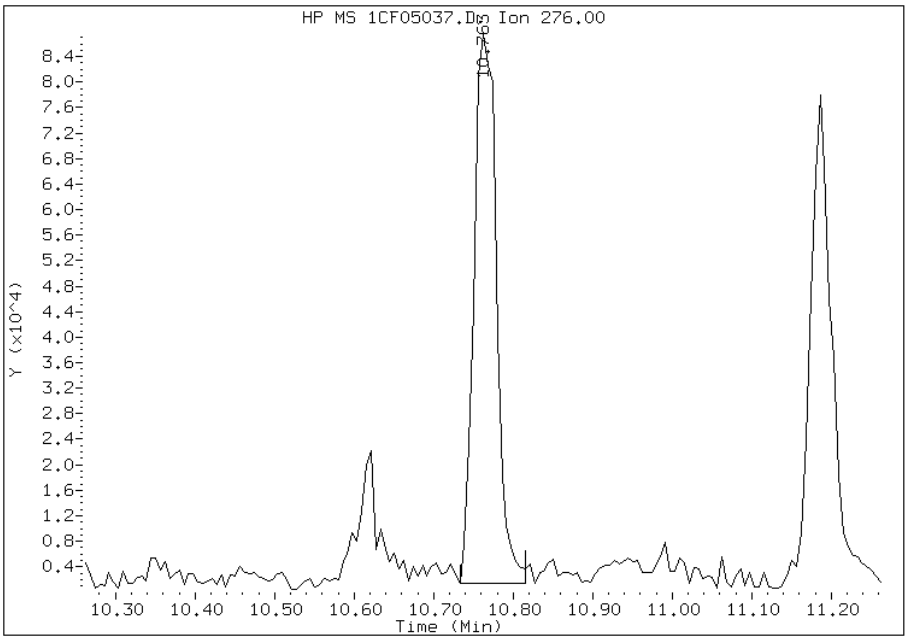
Processing Integration Results

RT: 10.76

Response: 167074

Amount: 2

Conc: 780



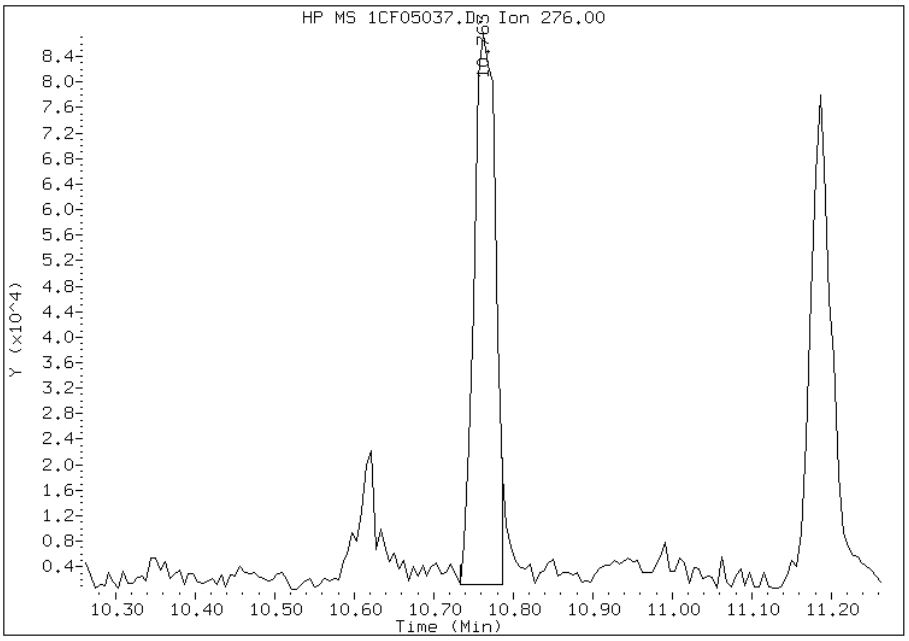
Manual Integration Results

RT: 10.76

Response: 160459

Amount: 2

Conc: 751



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:40
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: HP0332B-CS-SP | Lab Sample ID: 680-90723-40

Matrix: Solid | Lab File ID: 1DF06009.D

Analysis Method: 8270C LL | Date Collected: 05/24/2013 08:40

Extract. Method: 3546 | Date Extracted: 06/03/2013 13:04

Sample wt/vol: 15.23(g) | Date Analyzed: 06/06/2013 14:50

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

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

% Moisture: 29.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138163 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	560	U	560	110
208-96-8	Acenaphthylene	300		220	28
120-12-7	Anthracene	180		47	23
56-55-3	Benzo[a]anthracene	720		45	22
50-32-8	Benzo[a]pyrene	750		58	29
205-99-2	Benzo[b]fluoranthene	1300		68	34
191-24-2	Benzo[g,h,i]perylene	530		110	25
207-08-9	Benzo[k]fluoranthene	430		45	20
218-01-9	Chrysene	880		50	25
53-70-3	Dibenz(a,h)anthracene	210		110	23
206-44-0	Fluoranthene	1200		110	22
86-73-7	Fluorene	52	J	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	520		110	40
90-12-0	1-Methylnaphthalene	180	J	220	25
91-57-6	2-Methylnaphthalene	230		220	40
91-20-3	Naphthalene	300		220	25
85-01-8	Phenanthrene	550		45	22
129-00-0	Pyrene	840		110	21

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060613.b\1DF06009.D
Lab Smp Id: 680-90723-A-40-A Client Smp ID: HP0332B-CS-SP
Inj Date : 06-JUN-2013 14:50
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90723-A-40-A
Misc Info : 680-90723-A-40-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D060613.b\dFASTPAHi.m
Meth Date : 06-Jun-2013 13:17 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 8
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	15.230	Weight Extracted
M	29.419	% 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	6.272	6.274	(1.000)	4967511	40.0000	
* 7 Acenaphthene-d10	164	7.941	7.943	(1.000)	2885393	40.0000	
* 11 Phenanthrene-d10	188	9.198	9.200	(1.000)	4855775	40.0000	
$ 15 o-Terphenyl	230	9.504	9.506	(1.033)	124709	1.75305	650
* 19 Chrysene-d12	240	11.566	11.568	(1.000)	5301924	40.0000	
* 24 Perylene-d12	264	13.482	13.478	(1.000)	5117312	40.0000	
2 Naphthalene	128	6.290	6.292	(1.003)	98964	0.80786	300
3 2-Methylnaphthalene	142	6.983	6.991	(1.113)	47432	0.60811	230
4 1-Methylnaphthalene	142	7.077	7.085	(1.128)	38113	0.47464	180
5 1,1'-Biphenyl	154	7.424	7.426	(0.935)	17216	0.17660	66
6 Acenaphthylene	152	7.806	7.814	(0.983)	95201	0.79578	300
9 Dibenzofuran	168	8.112	8.113	(1.021)	26257	0.25092	93
10 Fluorene	166	8.399	8.407	(1.058)	12107	0.14100	52
12 Phenanthrene	178	9.210	9.218	(1.001)	196029	1.49060	550

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.251	9.259	(1.006)	61748	0.48391	180
16 Fluoranthene	202	10.191	10.199	(1.108)	422913	3.14340	1200
17 Pyrene	202	10.379	10.387	(0.897)	351437	2.26401	840
18 Benzo(a)anthracene	228	11.543	11.545	(0.998)	303469	1.92863	720
20 Chrysene	228	11.584	11.598	(1.002)	335992	2.37131	880
21 Benzo(b)fluoranthene	252	12.900	12.914	(0.957)	439643	3.42935	1300
22 Benzo(k)fluoranthene	252	12.935	12.955	(0.959)	156552	1.16611	430(H)
23 Benzo(a)pyrene	252	13.364	13.378	(0.991)	242368	2.00812	750
25 Indeno(1,2,3-cd)pyrene	276	15.109	15.135	(1.121)	166416	1.39916	520(M)
26 Dibenzo(a,h)anthracene	278	15.139	15.170	(1.123)	59179	0.55584	210
27 Benzo(g,h,i)perylene	276	15.585	15.616	(1.156)	165276	1.42239	530(H)

QC Flag Legend

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

Data File: 1DF06009.D

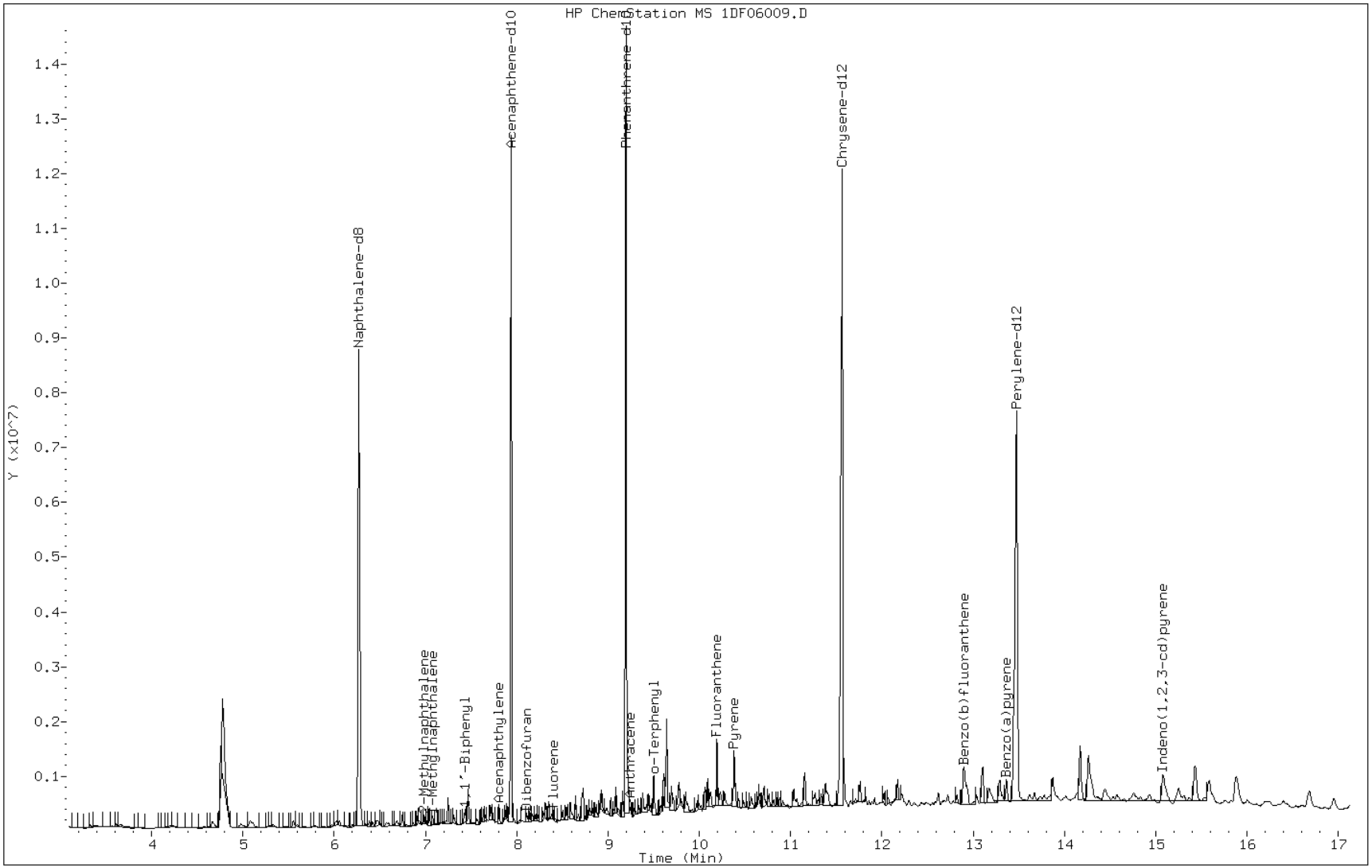
Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A

Operator: SCC



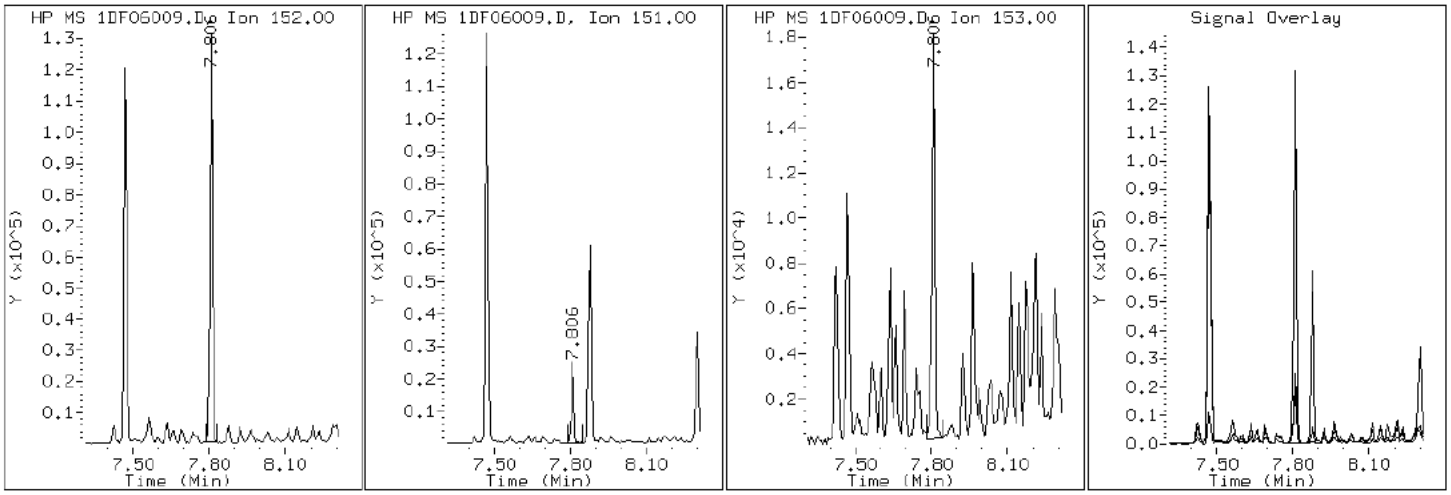
Data File: 1DF06009.D

Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A Operator: SCC

6 Acenaphthylene



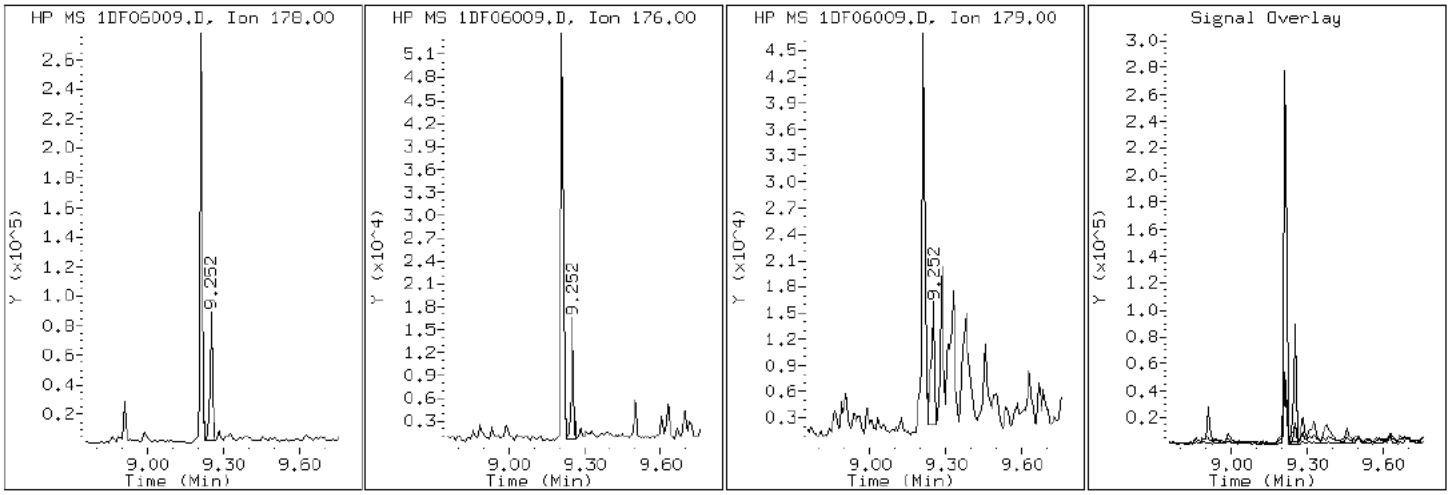
Data File: 1DF06009.D

Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A Operator: SCC

13 Anthracene



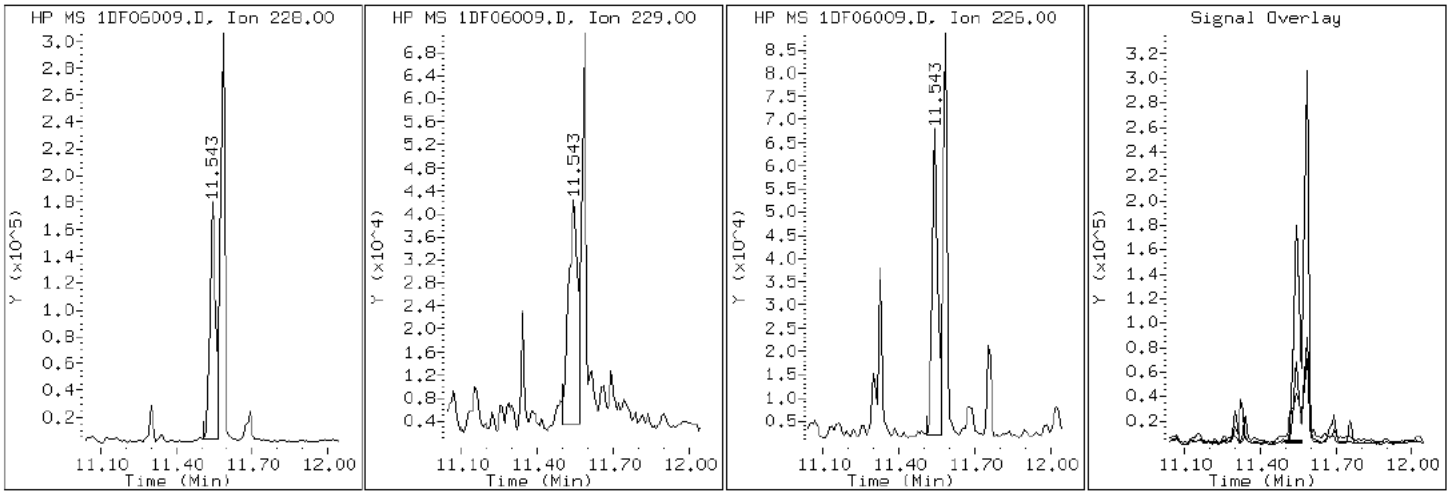
Data File: 1DF06009.D

Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A Operator: SCC

18 Benzo(a)anthracene



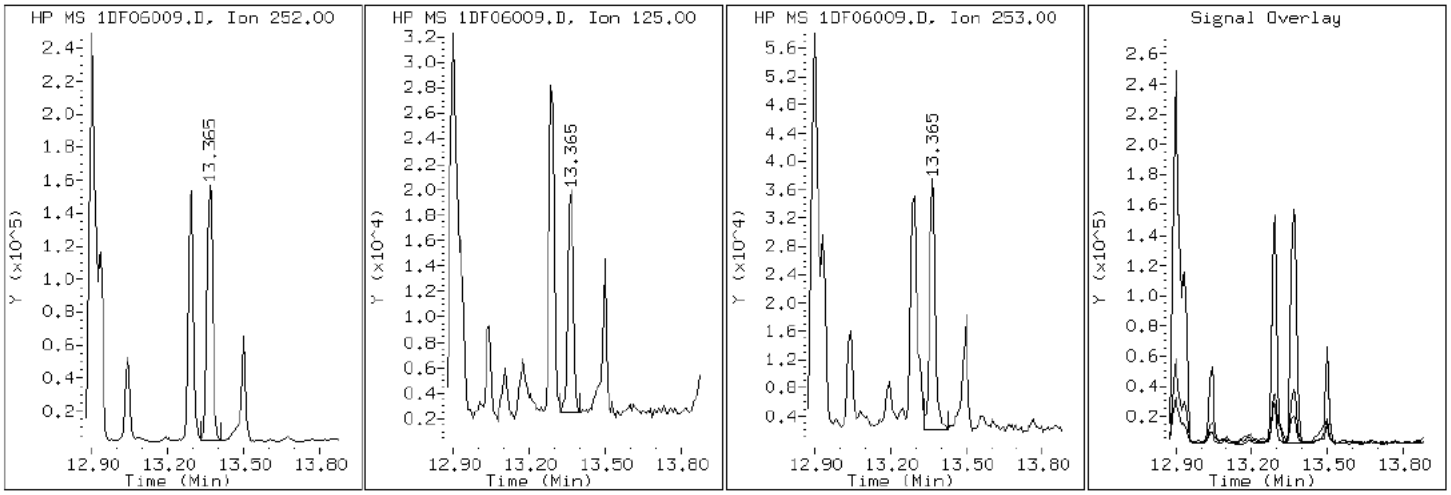
Data File: 1DF06009.D

Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A Operator: SCC

23 Benzo(a)pyrene



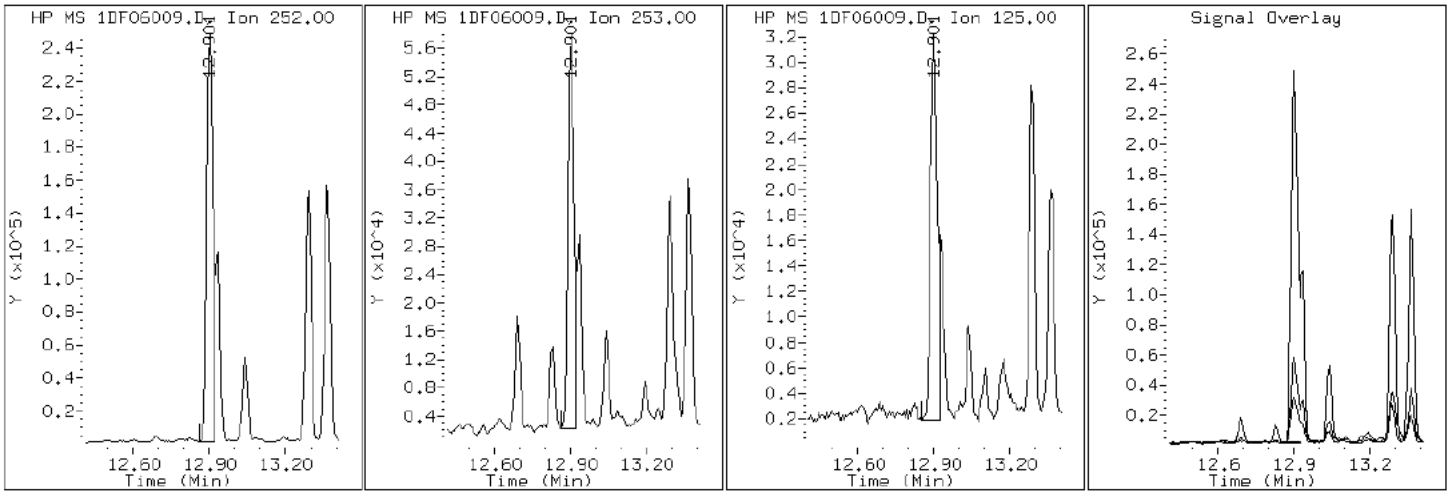
Data File: 1DF06009.D

Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A Operator: SCC

21 Benzo(b)fluoranthene



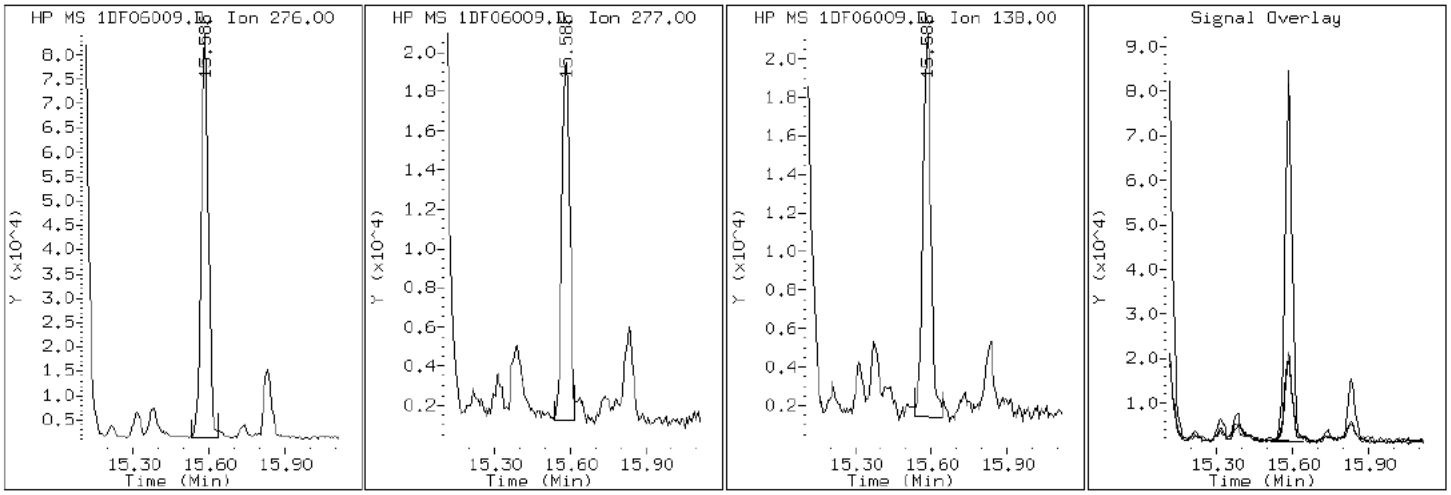
Data File: 1DF06009.D

Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A Operator: SCC

27 Benzo(g,h,i)perylene



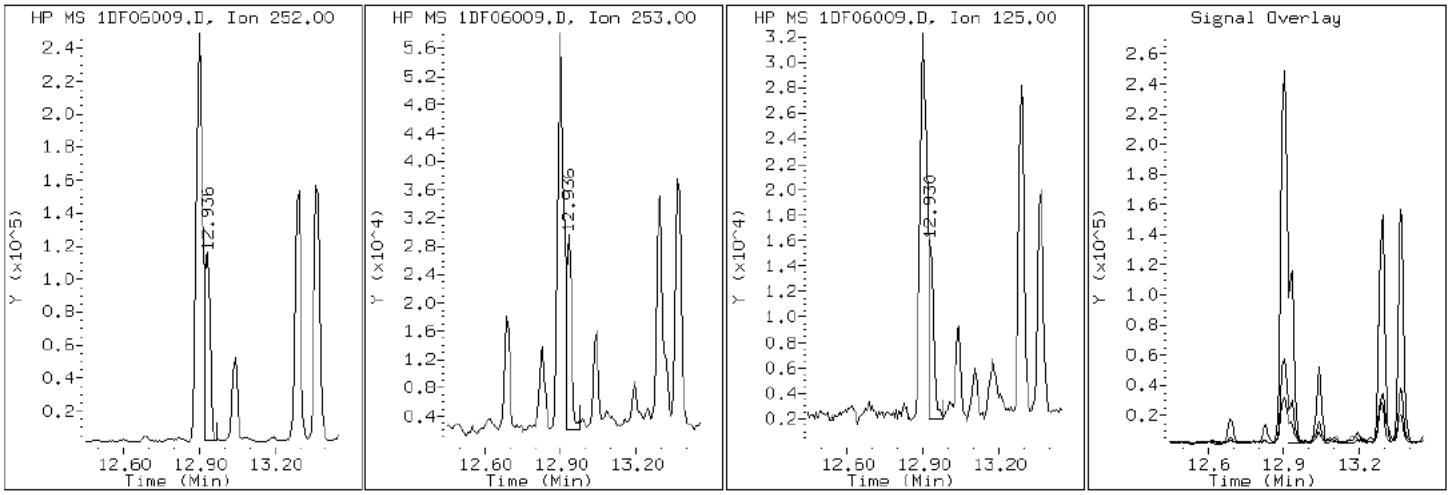
Data File: 1DF06009.D

Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A Operator: SCC

22 Benzo(k)fluoranthene



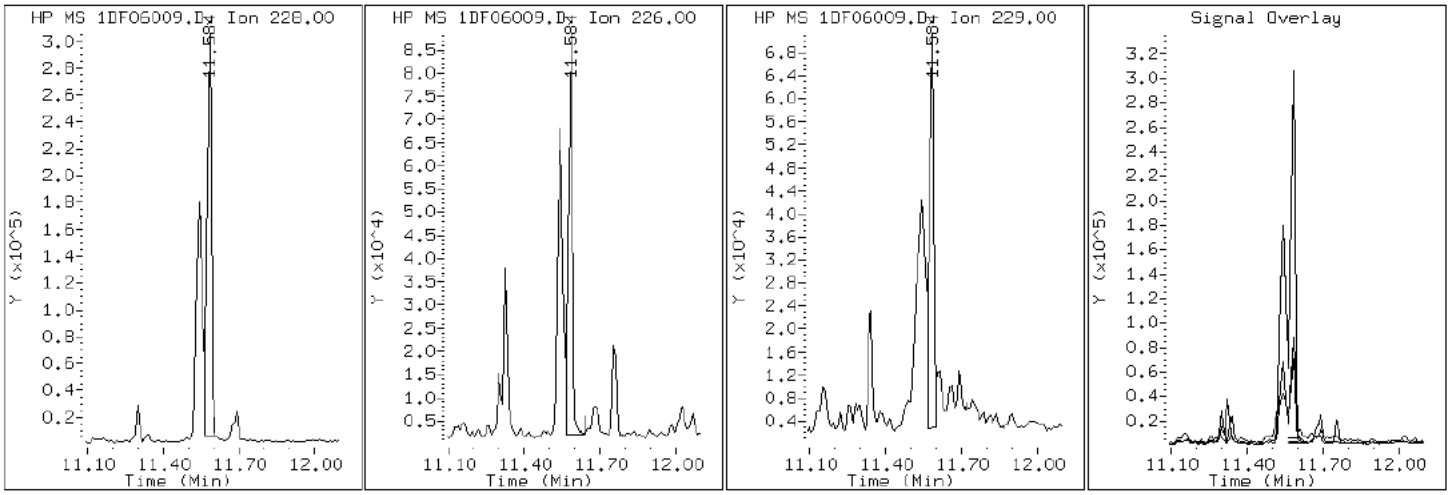
Data File: 1DF06009.D

Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A Operator: SCC

20 Chrysene



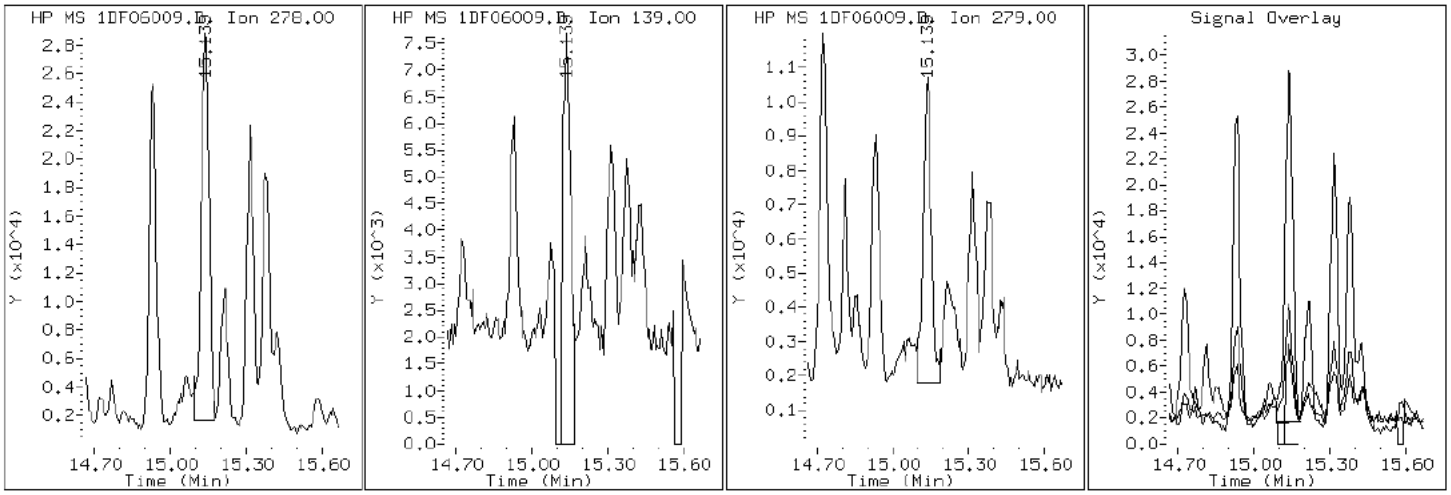
Data File: 1DF06009.D

Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A Operator: SCC

26 Dibenzo(a,h)anthracene



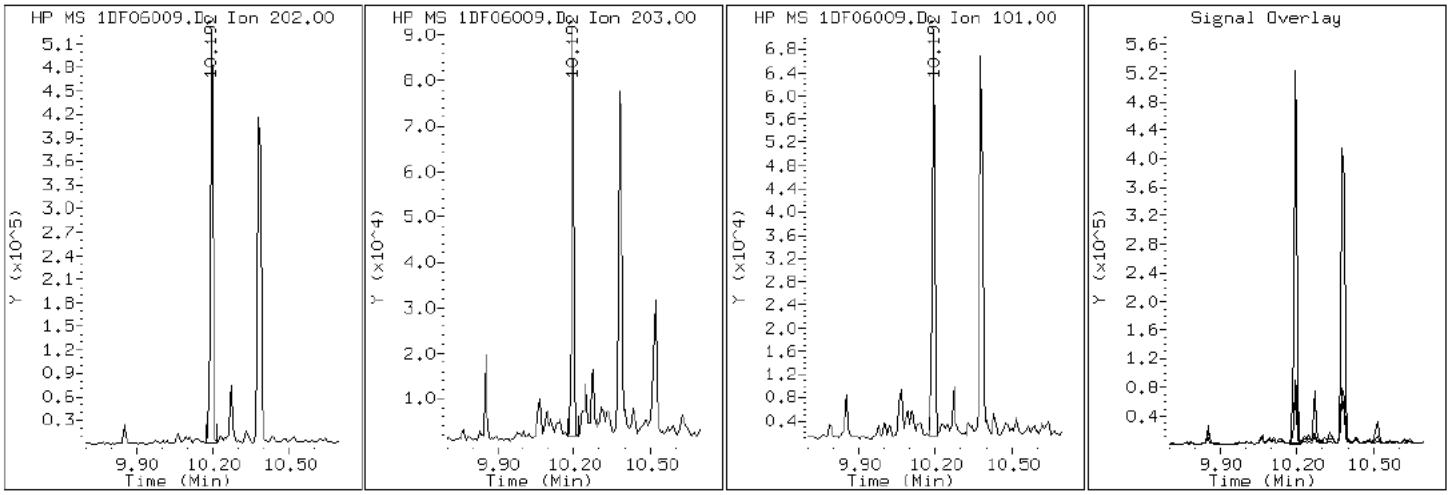
Data File: 1DF06009.D

Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A Operator: SCC

16 Fluoranthene



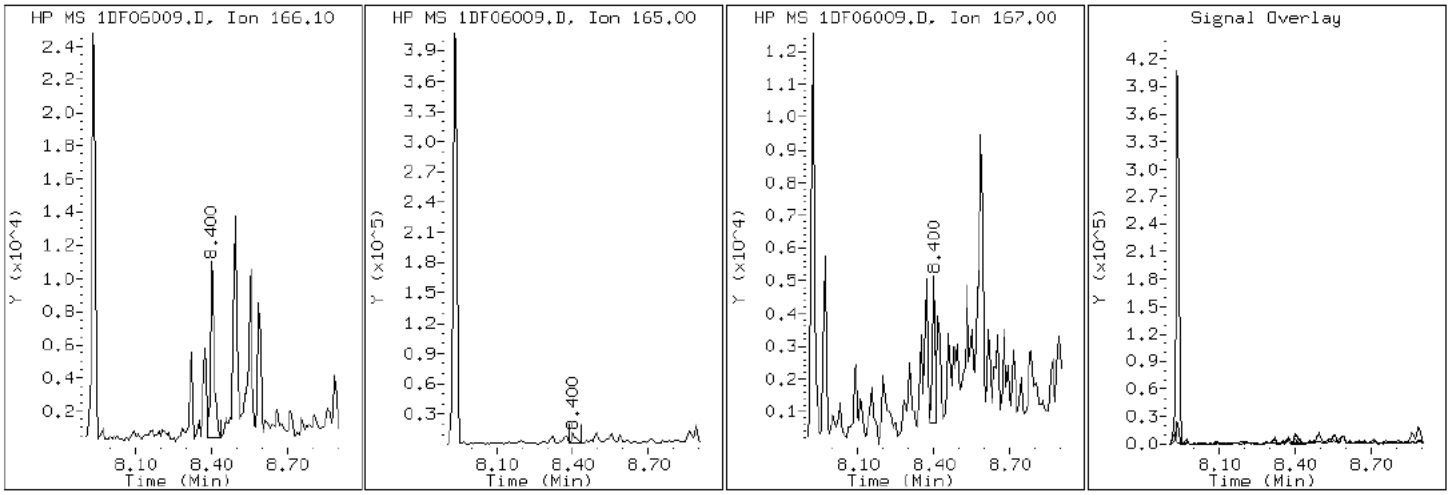
Data File: 1DF06009.D

Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A Operator: SCC

10 Fluorene



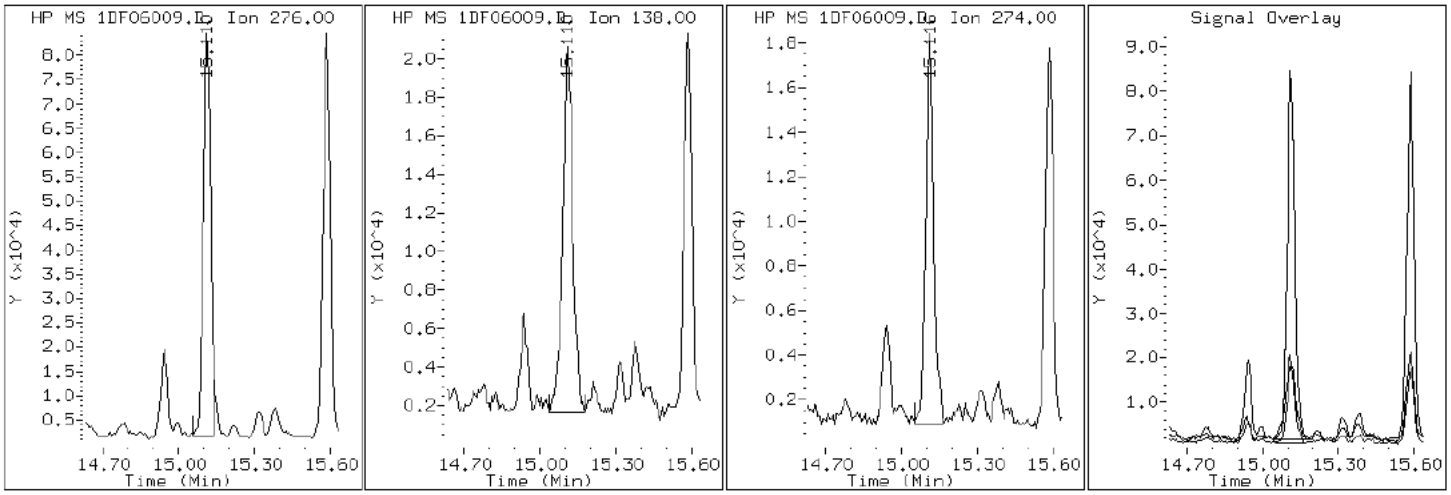
Data File: 1DF06009.D

Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A Operator: SCC

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



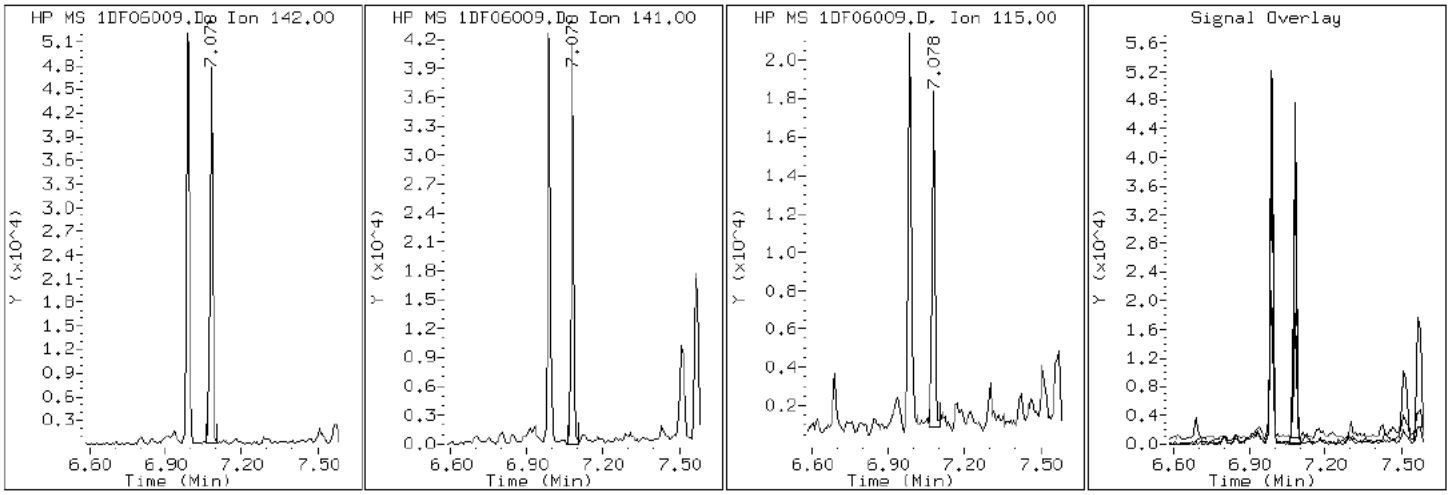
Data File: 1DF06009.D

Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A Operator: SCC

4 1-Methylnaphthalene



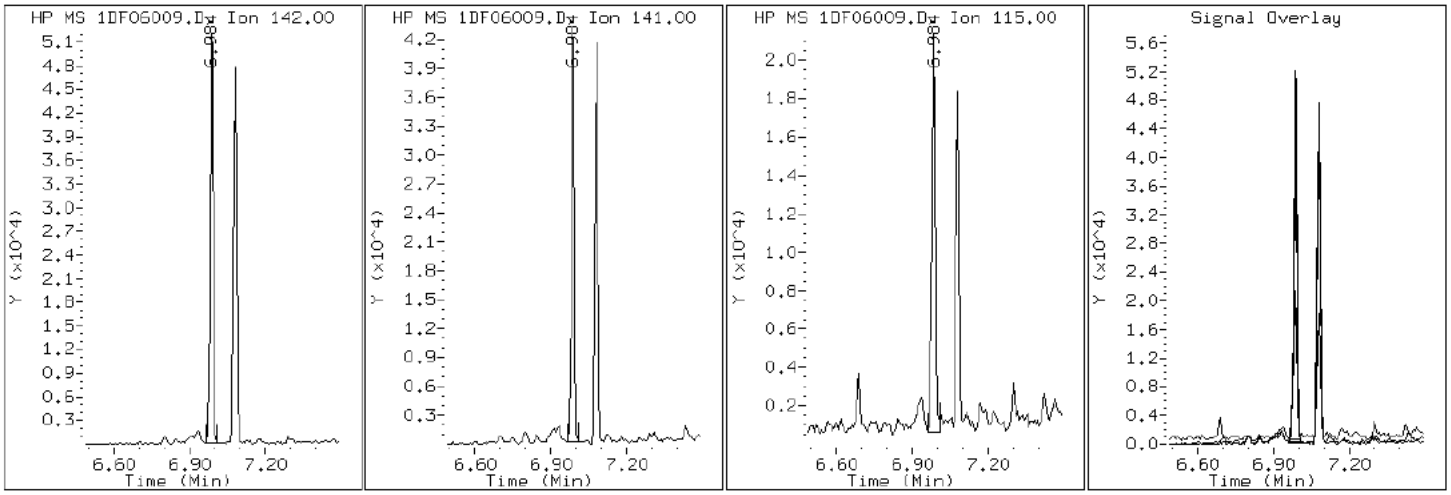
Data File: 1DF06009.D

Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A Operator: SCC

3 2-Methylnaphthalene



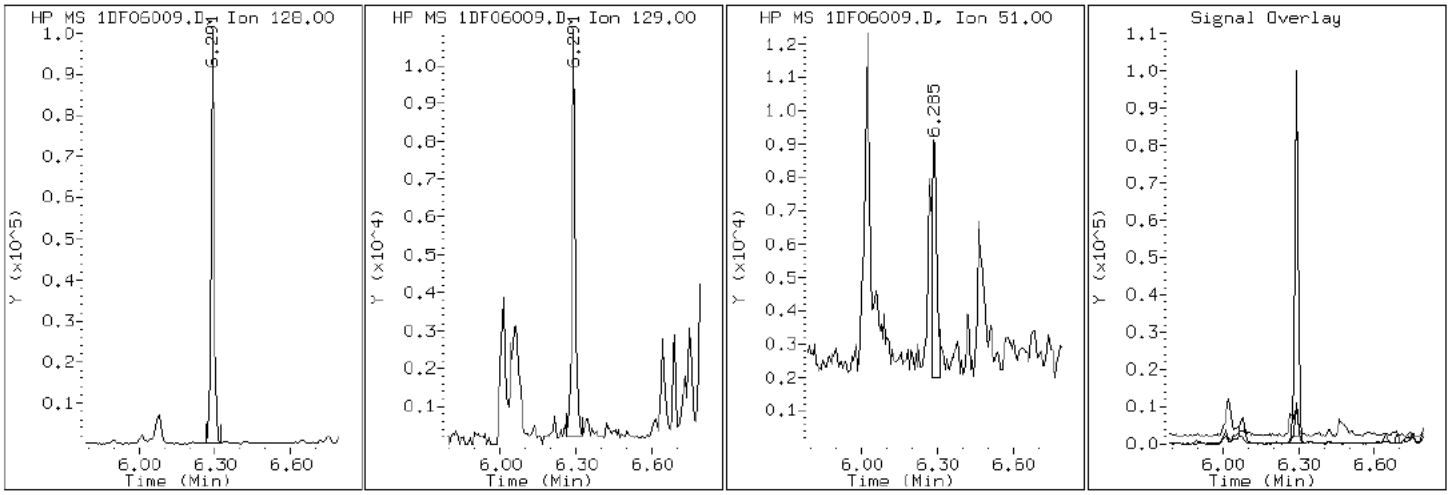
Data File: 1DF06009.D

Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A Operator: SCC

2 Naphthalene



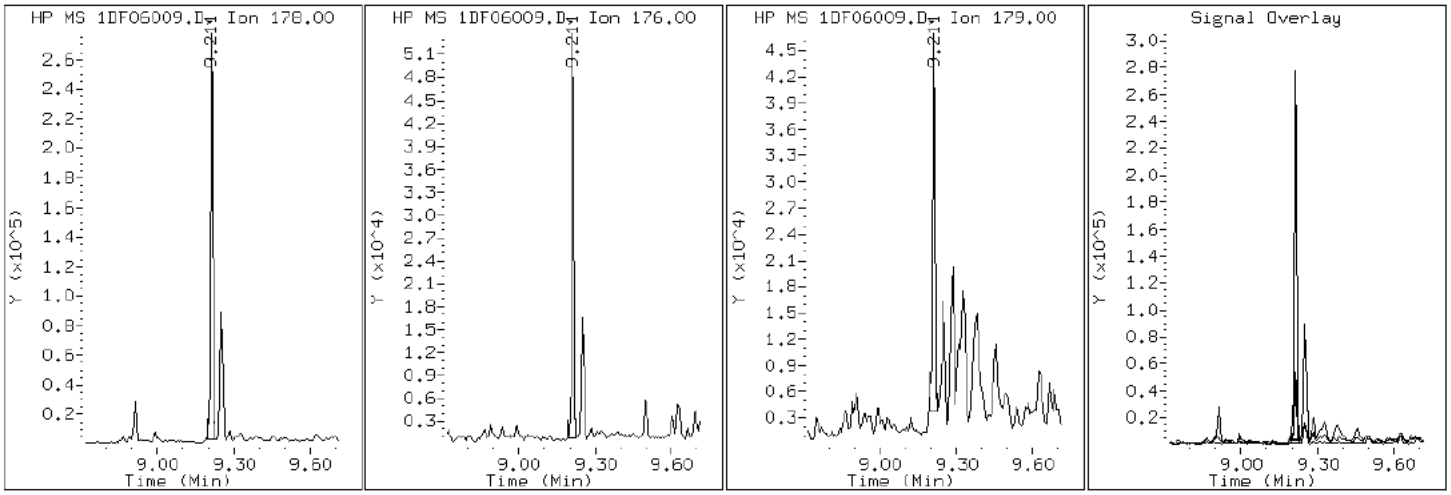
Data File: 1DF06009.D

Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A Operator: SCC

12 Phenanthrene



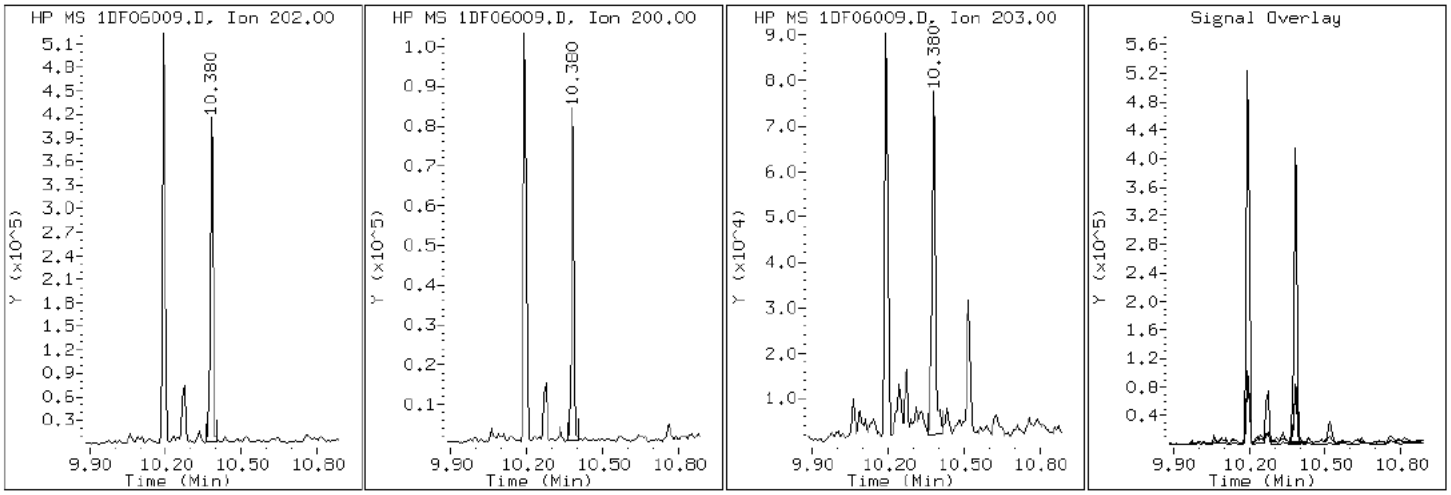
Data File: 1DF06009.D

Date: 06-JUN-2013 14:50

Client ID: HP0332B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90723-A-40-A Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF06009.D
Inj. Date and Time: 06-JUN-2013 14:50
Instrument ID: BSMSD.i
Client ID: HP0332B-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

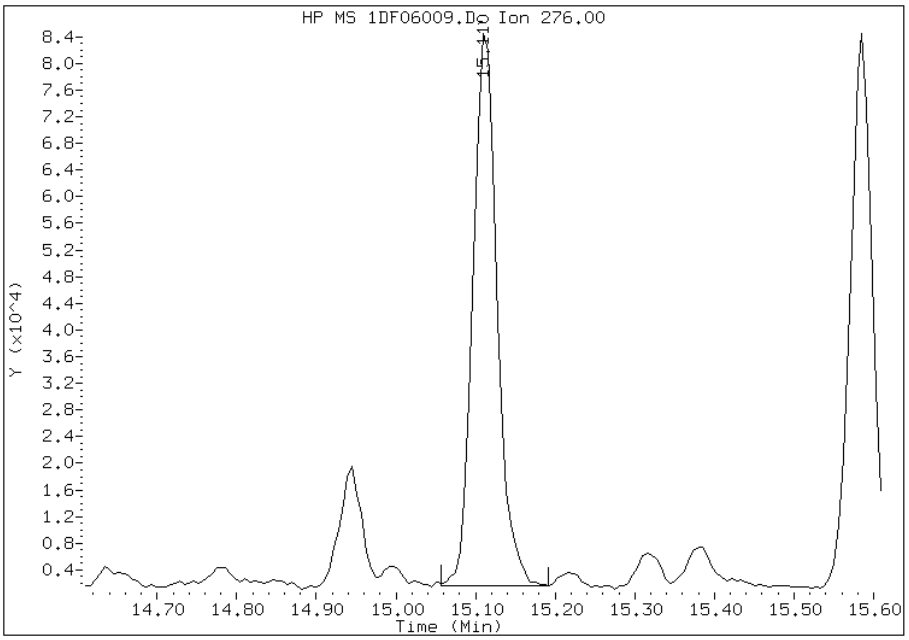
Processing Integration Results

RT: 15.11

Response: 174127

Amount: 1

Conc: 542



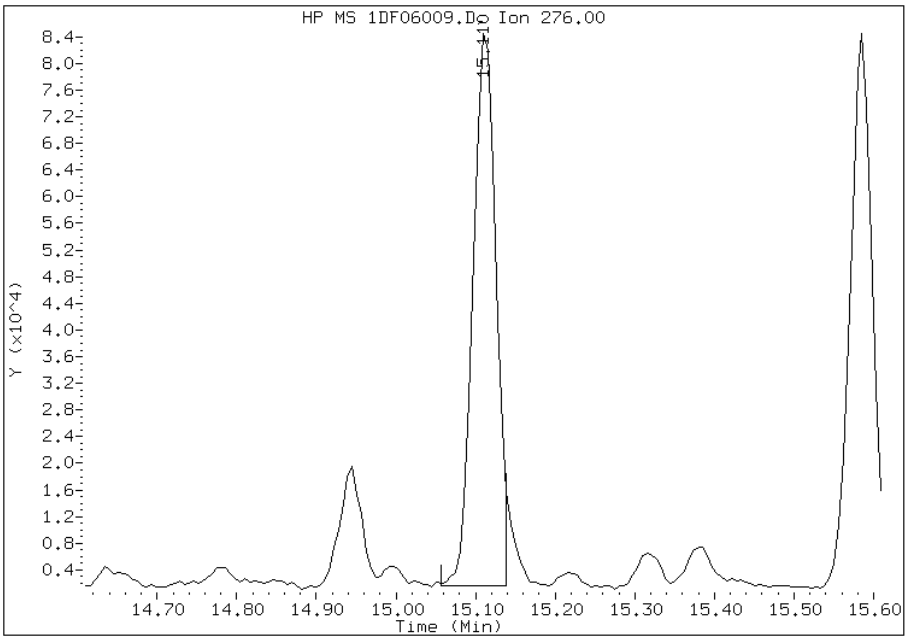
Manual Integration Results

RT: 15.11

Response: 166416

Amount: 1

Conc: 521



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 15:10
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-2 Analy Batch No.: 137704

SDG No.: 68090723-2

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

Calibration Start Date: 05/22/2013 16:16 Calibration End Date: 05/22/2013 18:05 Calibration ID: 2979

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137704/15	1CE22014.D
Level 2	IC 660-137704/16	1CE22015.D
Level 3	IC 660-137704/17	1CE22016.D
Level 4	IC 660-137704/18	1CE22017.D
Level 5	ICIS 660-137704/19	1CE22018.D
Level 6	IC 660-137704/20	1CE22019.D
Level 7	IC 660-137704/21	1CE22020.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	0.9182 0.9509	0.9422 1.0286	1.0667	0.9369	0.9568	Ave		1.1288			0.0000	5.6		15.0			
2-Methylnaphthalene	0.6242 0.6258	0.5686 0.6710	0.6225	0.6315	0.6391	Ave		0.6261			0.0000	4.9		15.0			
1-Methylnaphthalene	0.7438 0.6277	0.4975 0.6372	0.5963	0.6068	0.6028	Ave		0.6160			0.0000	11.8		15.0			
Acenaphthylene	1.2563 1.6292	1.4148 1.6925	1.5322	1.5773	1.6316	Ave		1.5334			0.0000	9.9		15.0			
Acenaphthene	0.7430 0.9987	0.8575 1.0497	1.0996	0.9725	1.0102	Ave		0.9616			0.0000	12.7		15.0			
Fluorene	0.9904 1.3220	1.0977 1.3921	1.2331	1.2548	1.2987	Ave		1.2270			0.0000	11.3		15.0			
Phenanthrene	1.4131 1.1675	1.0733 1.2047	1.2101	1.0895	1.1143	Ave		1.1818			0.0000	9.8		15.0			
Anthracene	0.8123 1.1883	1.1171 1.2099	1.1168	1.0984	1.1211	Ave		1.0948			0.0000	12.0		15.0			
Fluoranthene	1.0490 1.3113	1.0871 1.3420	1.2157	1.1933	1.2571	Ave		1.2079			0.0000	9.0		15.0			
Pyrene	1.0885 1.1391	0.9218 1.1459	1.0775	1.0624	1.1258	Ave		1.0801			0.0000	7.1		15.0			
Benzo[a]anthracene	1.3846 1.1143	0.9995 1.1132	1.0089	1.0134	1.0870	Ave		1.1030			0.0000	12.1		15.0			
Chrysene	0.9124 1.1117	1.1529 1.1361	1.2178	1.1306	1.1120	Ave		1.1105			0.0000	8.5		15.0			
Benzo[b]fluoranthene	0.9101 1.0977	0.8395 1.1170	0.9076	0.9393	1.0683	Ave		0.9828			0.0000	11.1		15.0			
Benzo[k]fluoranthene	0.9706 1.1302	0.9697 1.2215	1.1208	1.1676	1.1031	Ave		1.0977			0.0000	8.7		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.: 680-90723-2 Analy Batch No.: 137704

SDG No.: 68090723-2

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

Calibration Start Date: 05/22/2013 16:16 Calibration End Date: 05/22/2013 18:05 Calibration ID: 2979

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[a]pyrene	0.5319 1.0385	0.7463 1.1113	0.9316	0.9755	1.0099	Lin2	0.0025	1.0051							0.9923		
Indeno[1,2,3-cd]pyrene	0.5693 1.0544	0.7359 1.1402	0.8970	0.9571	0.9660	None	0.0040	1.0698							0.9942		
Dibenz(a,h)anthracene	0.7117 0.9449	0.7154 0.9858	0.8240	0.8860	0.9085	Ave		0.8538			0.0000	12.6		15.0			
Benzo[g,h,i]perylene	0.8170 0.9805	0.7856 1.0513	0.9373	0.9390	0.9942	Ave		0.9293			0.0000	10.3		15.0			
o-Terphenyl	0.5070 0.6731	0.6108 0.6782	0.6532	0.6025	0.6369	Ave		0.6231			0.0000	9.4		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.: 680-90723-2 Analy Batch No.: 137704

SDG No.: 68090723-2

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

Calibration Start Date: 05/22/2013 16:16 Calibration End Date: 05/22/2013 18:05 Calibration ID: 2979

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137704/15	1CE22014.D
Level 2	IC 660-137704/16	1CE22015.D
Level 3	IC 660-137704/17	1CE22016.D
Level 4	IC 660-137704/18	1CE22017.D
Level 5	ICIS 660-137704/19	1CE22018.D
Level 6	IC 660-137704/20	1CE22019.D
Level 7	IC 660-137704/21	1CE22020.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	10788 1475133	43167 2829693	277572	502511	1290268	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7334 970702	26053 1846051	161984	338697	861867	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8739 973704	22793 1753070	155163	325468	812801	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	10091 1744024	43693 3262336	272410	595358	1503680	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	5968 1069111	26483 2023281	195498	367076	930965	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	7955 1415229	33899 2683311	219224	473626	1196881	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	22296 2310027	62422 4422781	404697	781016	2021508	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	12816 2351205	64974 4441751	373497	787403	2033868	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	16551 2594572	63229 4926903	406556	855481	2280567	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	20607 2821005	64768 5350270	445351	946073	2585241	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	26214 2759615	70230 5197458	417004	902407	2496189	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	17274 2753228	81010 5304178	503367	1006797	2553612	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	17929 2780406	62459 5119876	393956	813573	2511123	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	19122 2862522	72150 5598875	486517	1011311	2593145	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Lin2	10479 2630366	55523 5093564	404398	844912	2373859	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.: 680-90723-2 Analy Batch No.: 137704

SDG No.: 68090723-2

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

Calibration Start Date: 05/22/2013 16:16 Calibration End Date: 05/22/2013 18:05 Calibration ID: 2979

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
Indeno[1,2,3-cd]pyrene	PRY	None	11215 2670728	54750 5226444	389350	828947	2270654	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	14021 2393229	53230 4518350	357696	767380	2135605	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	16095 2483401	58451 4818870	406852	813279	2336946	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7999 1331814	35524 2489982	218457	431889	1155503	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 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22014.D
Lab Smp Id: IC-1531396
Inj Date : 22-MAY-2013 16:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 14 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)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	4.057	4.057	(1.000)	2349852	40.0000	
* 6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1606435	40.0000	
* 10 Phenanthrene-d10	188	6.115	6.115	(1.000)	3155669	40.0000	
$ 14 o-Terphenyl	230	6.362	6.362	(1.040)	7999	0.20000	0.1627
* 18 Chrysene-d12	240	8.074	8.074	(1.000)	3786414	40.0000	
* 23 Perylene-d12	264	9.421	9.421	(1.000)	3940046	40.0000	
2 Naphthalene	128	4.068	4.068	(1.003)	10788	0.20000	-0.0958(aQ)
3 2-Methylnaphthalene	142	4.492	4.492	(1.107)	7334	0.20000	0.1000
4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	8739	0.20000	0.3297
5 Acenaphthylene	152	5.057	5.057	(0.983)	10091	0.20000	0.2511
7 Acenaphthene	154	5.168	5.168	(1.005)	5968	0.20000	0.4480(Q)
9 Fluorene	166	5.492	5.492	(1.067)	7955	0.20000	0.7701
11 Phenanthrene	178	6.127	6.127	(1.002)	22296	0.20000	0.2391
12 Anthracene	178	6.168	6.168	(1.009)	12816	0.20000	0.6465
13 Carbazole	167	6.268	6.268	(1.025)	8868	0.20000	0.1236
15 Fluoranthene	202	6.980	6.980	(1.141)	16551	0.20000	0.7298
16 Pyrene	202	7.151	7.151	(0.886)	20607	0.20000	0.2015
17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	26214	0.20000	0.4841
19 Chrysene	228	8.098	8.098	(1.003)	17274	0.20000	0.1643
20 Benzo(b)fluoranthene	252	9.009	9.009	(0.956)	17929	0.20000	0.1852
21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	19122	0.20000	0.1768
22 Benzo(a)pyrene	252	9.350	9.350	(0.993)	10479	0.20000	0.9543
24 Indeno(1,2,3-cd)pyrene	276	10.803	10.803	(1.147)	11215	0.20000	1.2876(M)
25 Dibenzo(a,h)anthracene	278	10.821	10.821	(1.149)	14021	0.20000	0.1667(M)
26 Benzo(g,h,i)perylene	276	11.221	11.221	(1.191)	16095	0.20000	0.1758(M)

QC Flag Legend

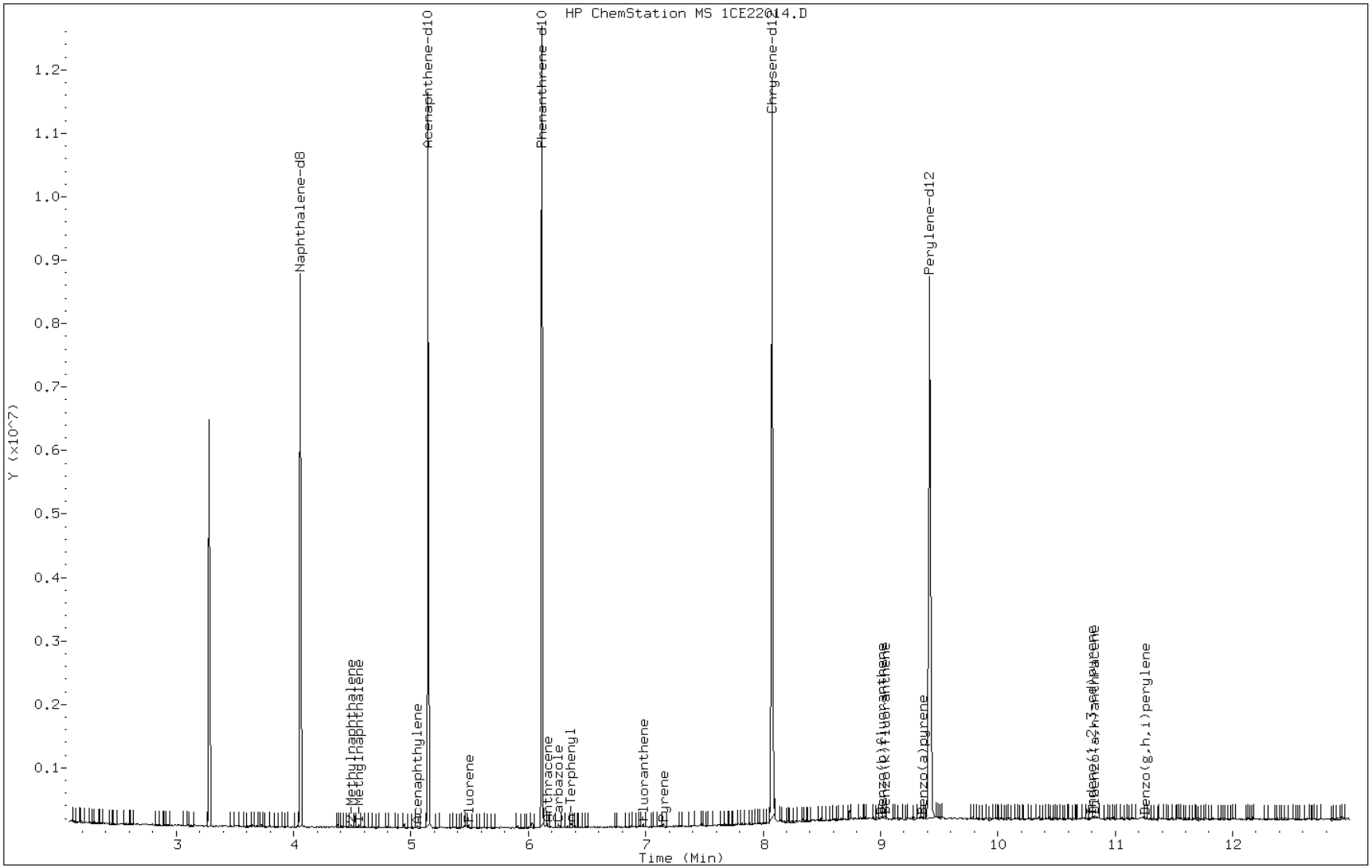
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CE22014.D

Date: 22-MAY-2013 16:16

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531396 Operator: SCC



Manual Integration Report

Data File: 1CE22014.D
Inj. Date and Time: 22-MAY-2013 16:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

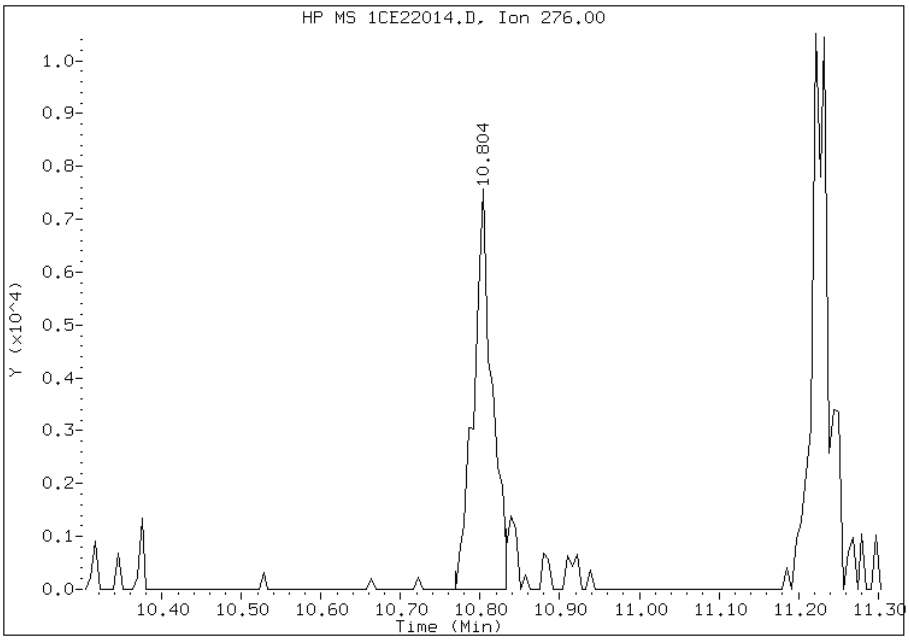
Processing Integration Results

RT: 10.80

Response: 12188

Amount: 1

Conc: 1



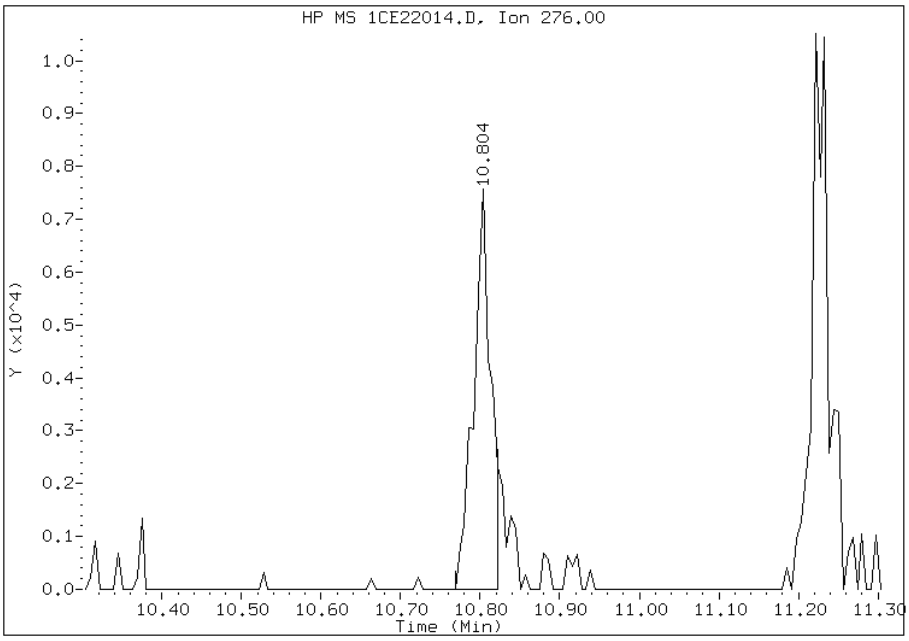
Manual Integration Results

RT: 10.80

Response: 11215

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 09:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CE22014.D
Inj. Date and Time: 22-MAY-2013 16:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/23/2013

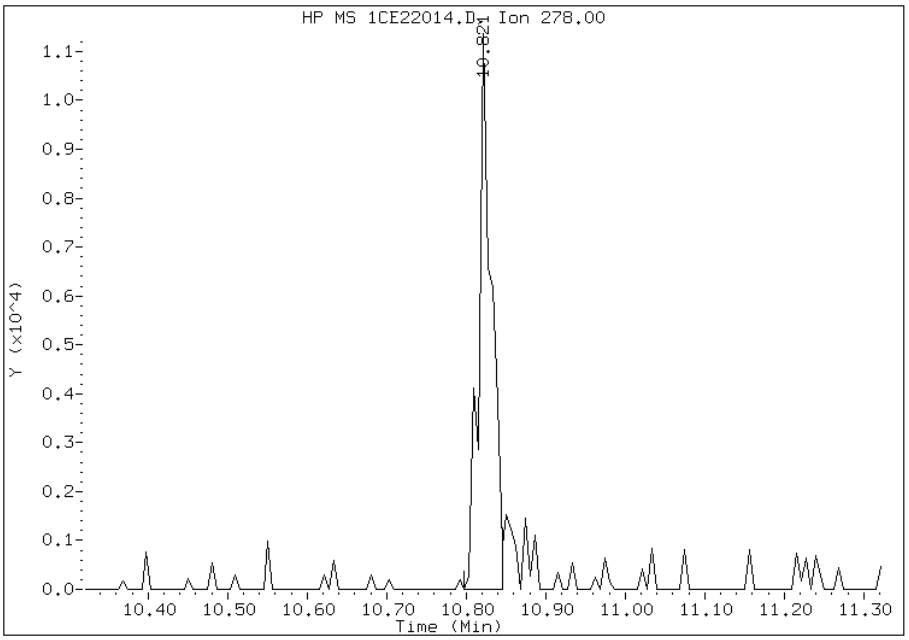
Processing Integration Results

RT: 10.82

Response: 12738

Amount: 0

Conc: 0



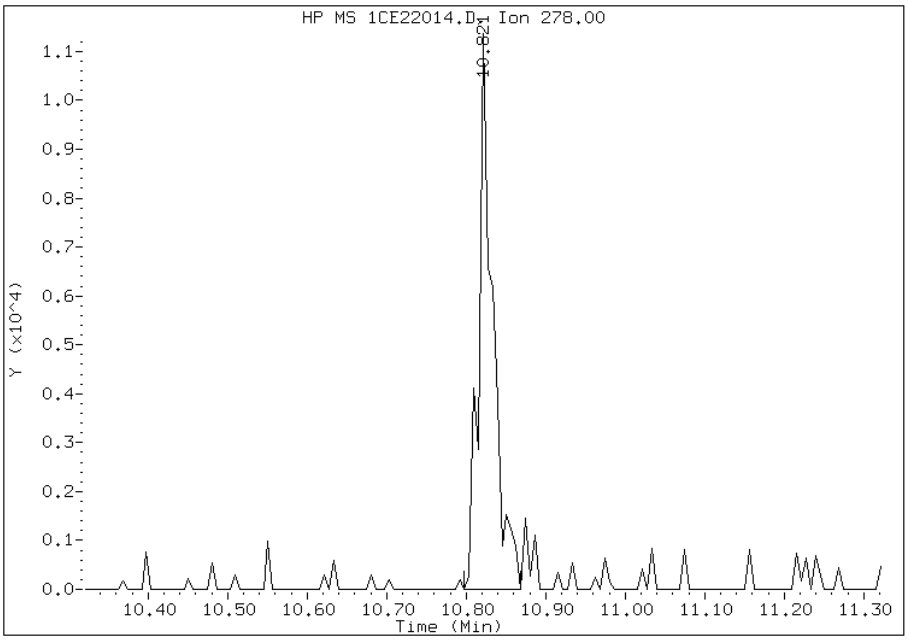
Manual Integration Results

RT: 10.82

Response: 14021

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 23-May-2013 09:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CE22014.D
Inj. Date and Time: 22-MAY-2013 16:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/23/2013

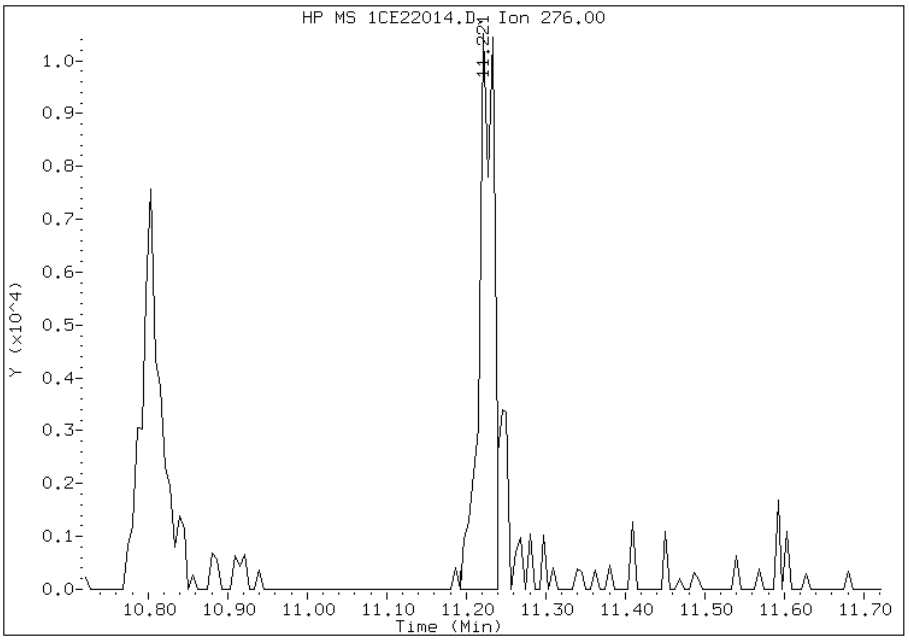
Processing Integration Results

RT: 11.22

Response: 13709

Amount: 0

Conc: 0



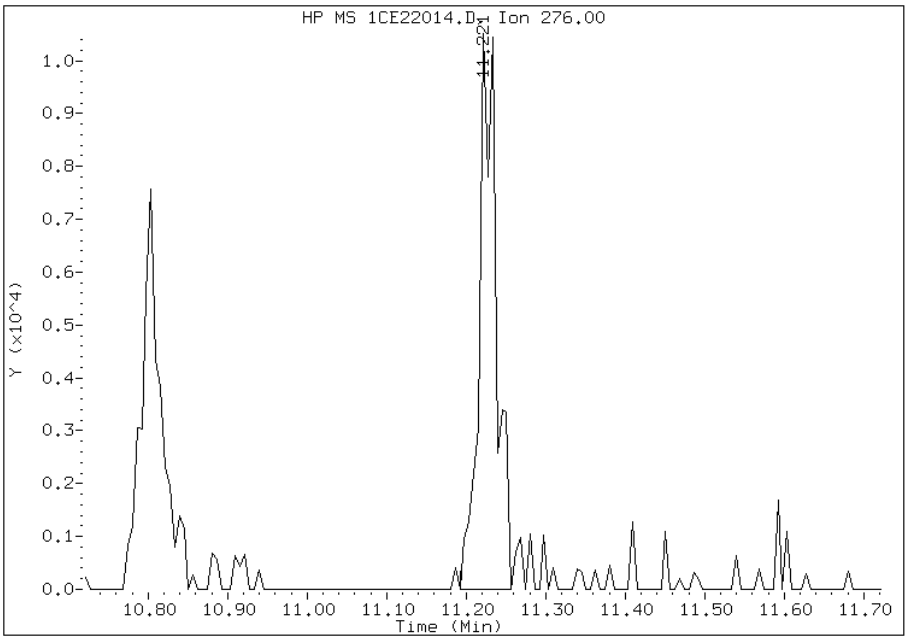
Manual Integration Results

RT: 11.22

Response: 16095

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 23-May-2013 09:49
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22015.D
Lab Smp Id: IC-1531398
Inj Date : 22-MAY-2013 16:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 16:16 Cal File: 1CE22014.D
Als bottle: 15 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)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	4.057	4.057	(1.000)	1832664	40.0000	
* 6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1235302	40.0000	
* 10 Phenanthrene-d10	188	6.115	6.115	(1.000)	2326462	40.0000	
$ 14 o-Terphenyl	230	6.363	6.363	(1.040)	35524	1.00000	0.9802
* 18 Chrysene-d12	240	8.074	8.074	(1.000)	2810637	40.0000	
* 23 Perylene-d12	264	9.415	9.415	(1.000)	2976078	40.0000	
2 Naphthalene	128	4.069	4.069	(1.003)	43167	1.00000	0.7579(Q)
3 2-Methylnaphthalene	142	4.492	4.492	(1.107)	26053	1.00000	0.8408
4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	22793	1.00000	0.9083(Q)
5 Acenaphthylene	152	5.057	5.057	(0.983)	43693	1.00000	0.9876
7 Acenaphthene	154	5.163	5.163	(1.003)	26483	1.00000	1.1282(Q)
9 Fluorene	166	5.492	5.492	(1.067)	33899	1.00000	1.4179
11 Phenanthrene	178	6.127	6.127	(1.002)	62422	1.00000	0.9081
12 Anthracene	178	6.163	6.163	(1.008)	64974	1.00000	1.4346
13 Carbazole	167	6.268	6.268	(1.025)	47959	1.00000	0.9067
15 Fluoranthene	202	6.980	6.980	(1.141)	63229	1.00000	1.3820
16 Pyrene	202	7.151	7.151	(0.886)	64768	1.00000	0.8533
17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	70230	1.00000	1.1468
19 Chrysene	228	8.098	8.098	(1.003)	81010	1.00000	1.0381
20 Benzo(b)fluoranthene	252	9.009	9.009	(0.957)	62459	1.00000	0.8541
21 Benzo(k)fluoranthene	252	9.039	9.039	(0.960)	72150	1.00000	0.8834
22 Benzo(a)pyrene	252	9.351	9.351	(0.993)	55523	1.00000	1.5314
24 Indeno(1,2,3-cd)pyrene	276	10.798	10.798	(1.147)	54750	1.00000	1.8337(M)
25 Dibenzo(a,h)anthracene	278	10.827	10.827	(1.150)	53230	1.00000	0.8379(M)
26 Benzo(g,h,i)perylene	276	11.227	11.227	(1.192)	58451	1.00000	0.8454

QC Flag Legend

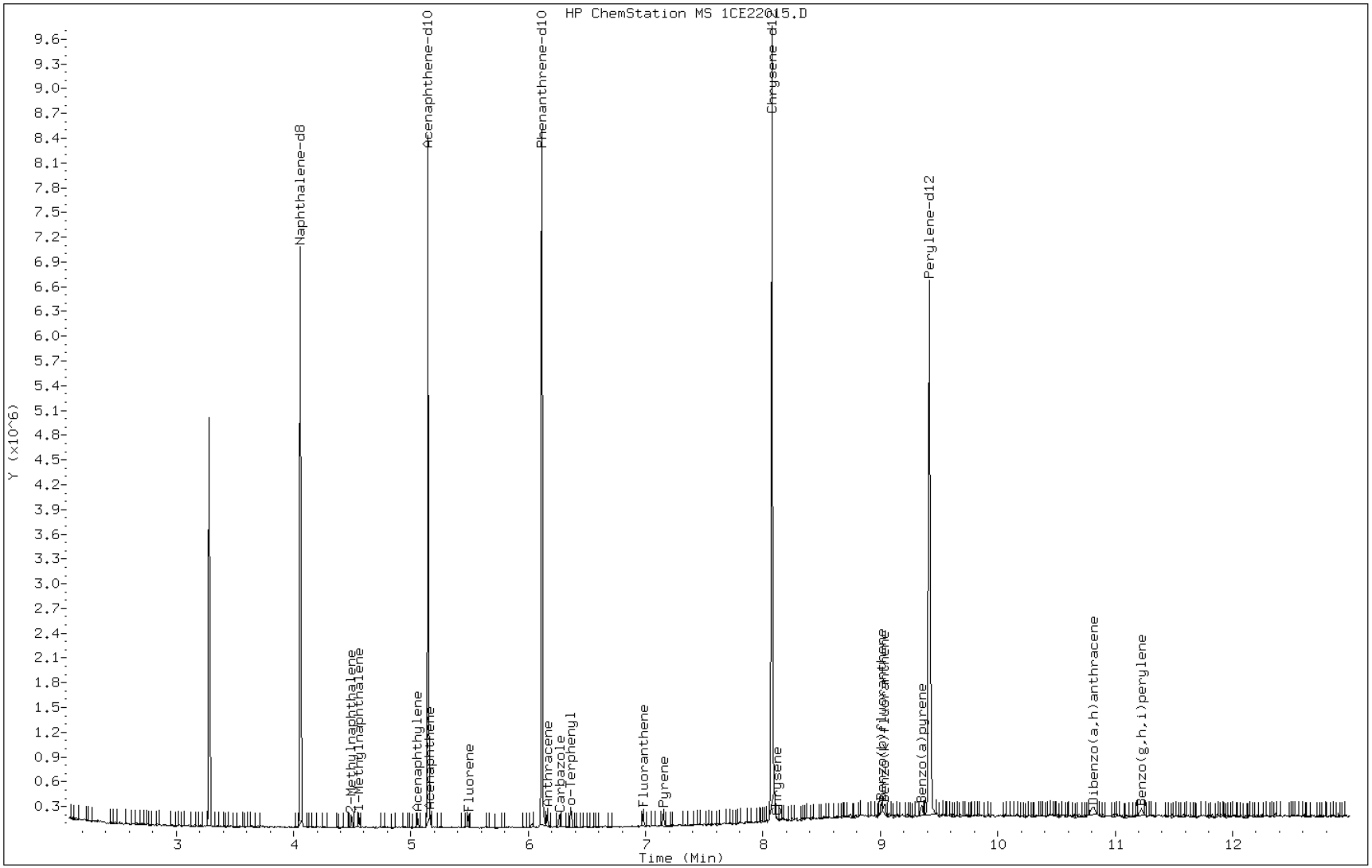
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CE22015.D

Date: 22-MAY-2013 16:34

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531398 Operator: SCC



Manual Integration Report

Data File: 1CE22015.D
Inj. Date and Time: 22-MAY-2013 16:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

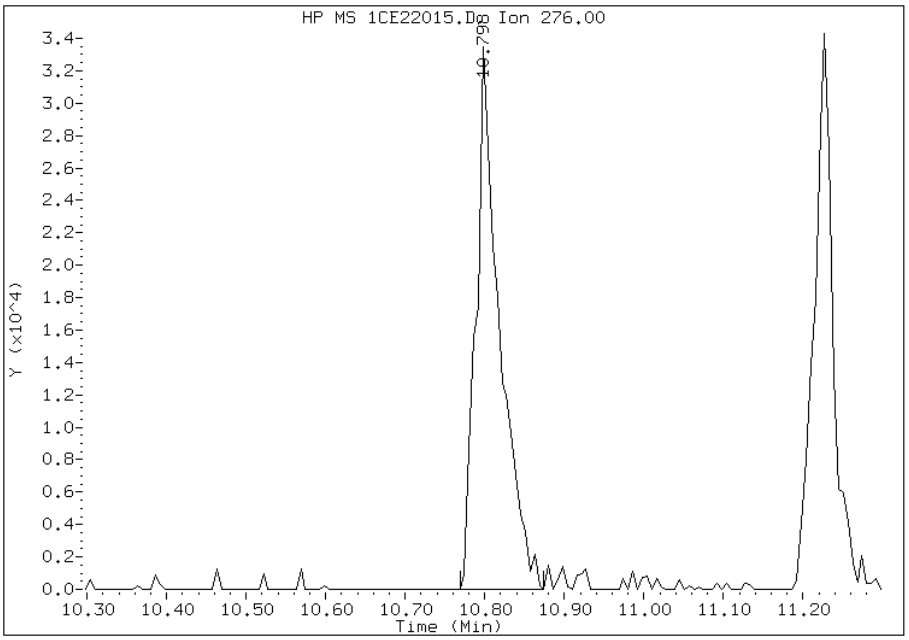
Processing Integration Results

RT: 10.80

Response: 69013

Amount: 1

Conc: 1



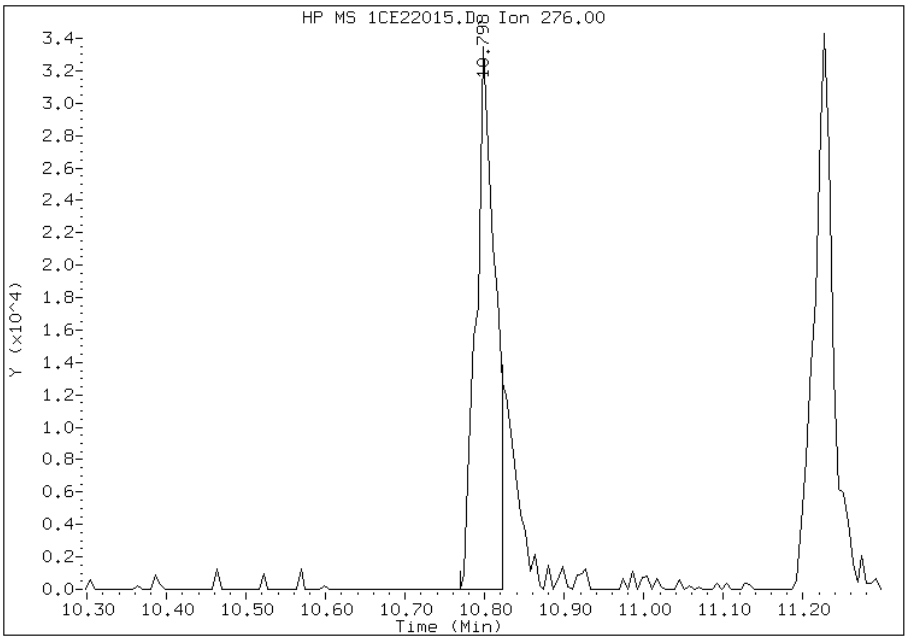
Manual Integration Results

RT: 10.80

Response: 54750

Amount: 2

Conc: 2



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:06
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CE22015.D
Inj. Date and Time: 22-MAY-2013 16:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/23/2013

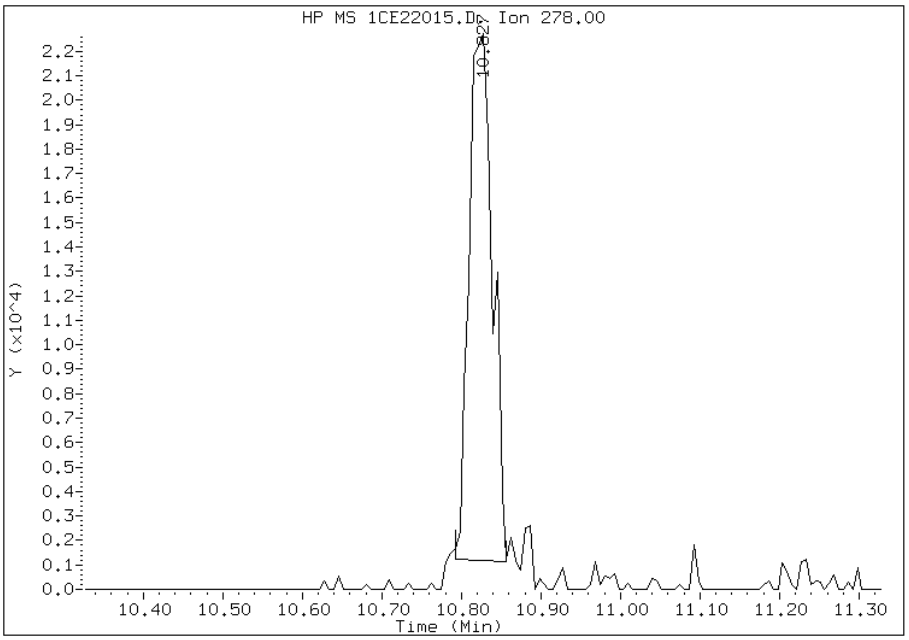
Processing Integration Results

RT: 10.83

Response: 43916

Amount: 1

Conc: 1



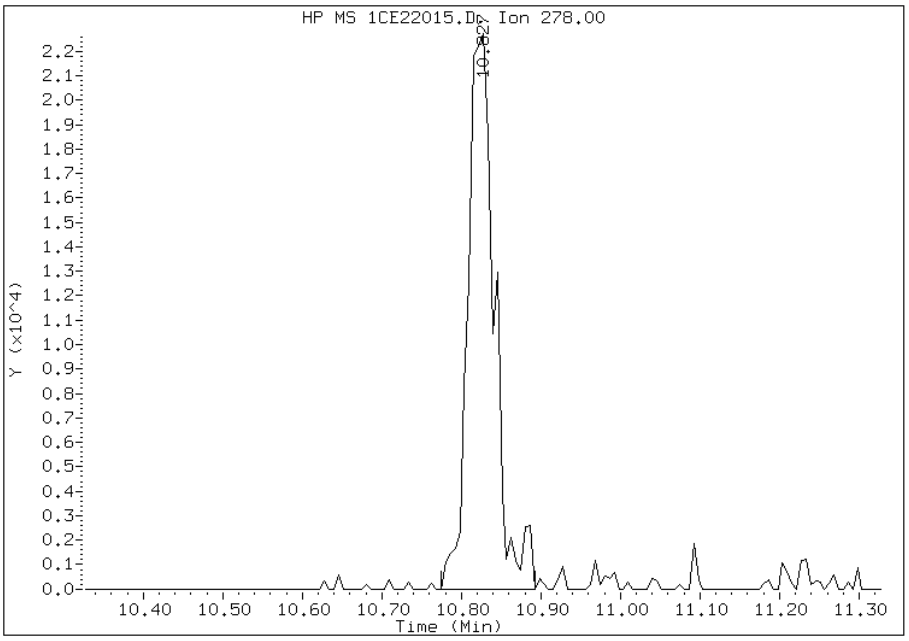
Manual Integration Results

RT: 10.83

Response: 53230

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:05
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22016.D
Lab Smp Id: IC-1531399
Inj Date : 22-MAY-2013 16:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 16:34 Cal File: 1CE22015.D
Als bottle: 16 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)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	4.057	4.057	(1.000)	2081666	40.0000	
* 6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1422317	40.0000	
* 10 Phenanthrene-d10	188	6.116	6.116	(1.000)	2675415	40.0000	
$ 14 o-Terphenyl	230	6.363	6.363	(1.040)	218457	5.00000	5.2417
* 18 Chrysene-d12	240	8.074	8.074	(1.000)	3306699	40.0000	
* 23 Perylene-d12	264	9.421	9.421	(1.000)	3472629	40.0000	
2 Naphthalene	128	4.069	4.069	(1.003)	277572	5.00000	5.6353
3 2-Methylnaphthalene	142	4.492	4.492	(1.107)	161984	5.00000	5.0474
4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	155163	5.00000	5.0081
5 Acenaphthylene	152	5.057	5.057	(0.983)	272410	5.00000	4.9174
7 Acenaphthene	154	5.163	5.163	(1.003)	195498	5.00000	5.5806
9 Fluorene	166	5.492	5.492	(1.067)	219224	5.00000	5.0675
11 Phenanthrene	178	6.127	6.127	(1.002)	404697	5.00000	5.1199
12 Anthracene	178	6.163	6.163	(1.008)	373497	5.00000	5.1223
13 Carbazole	167	6.268	6.268	(1.025)	324904	5.00000	5.3417
15 Fluoranthene	202	6.980	6.980	(1.141)	406556	5.00000	5.0929
16 Pyrene	202	7.151	7.151	(0.886)	445351	5.00000	4.9876
17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	417004	5.00000	4.8476
19 Chrysene	228	8.098	8.098	(1.003)	503367	5.00000	5.4831
20 Benzo(b)fluoranthene	252	9.009	9.009	(0.956)	393956	5.00000	4.6173
21 Benzo(k)fluoranthene	252	9.033	9.033	(0.959)	486517	5.00000	5.1054
22 Benzo(a)pyrene	252	9.356	9.356	(0.993)	404398	5.00000	5.0594
24 Indeno(1,2,3-cd)pyrene	276	10.803	10.803	(1.147)	389350	5.00000	5.1255(M)
25 Dibenzo(a,h)anthracene	278	10.827	10.827	(1.149)	357696	5.00000	4.8259
26 Benzo(g,h,i)perylene	276	11.227	11.227	(1.192)	406852	5.00000	5.0431

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CE22016.D

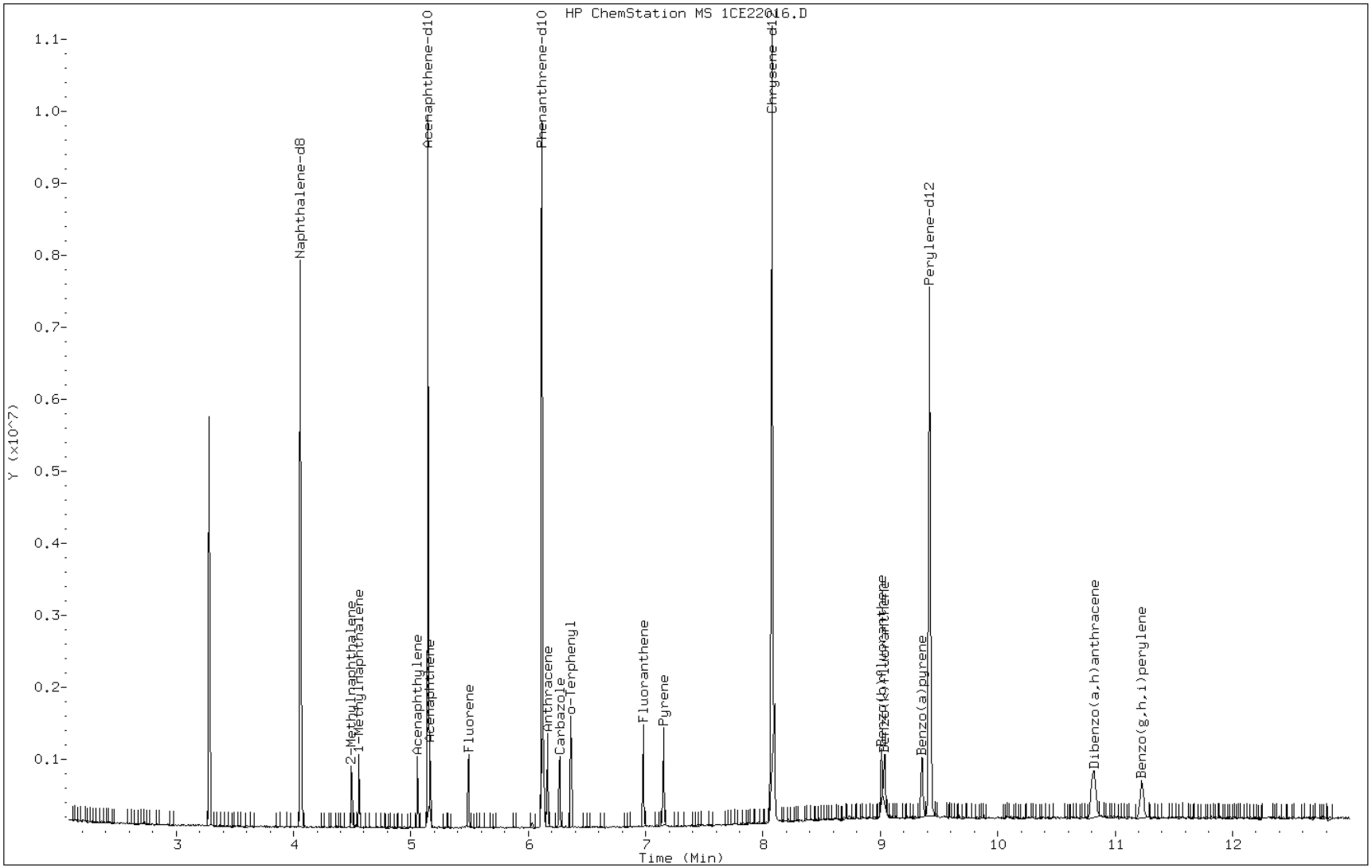
Date: 22-MAY-2013 16:52

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531399

Operator: SCC



Manual Integration Report

Data File: 1CE22016.D
Inj. Date and Time: 22-MAY-2013 16:52
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

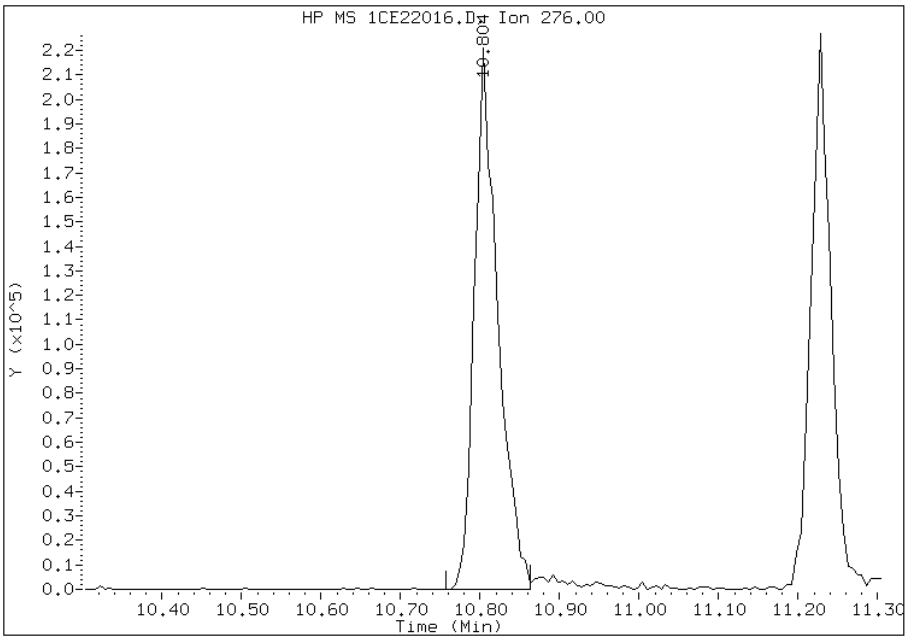
Processing Integration Results

RT: 10.80

Response: 449154

Amount: 5

Conc: 5



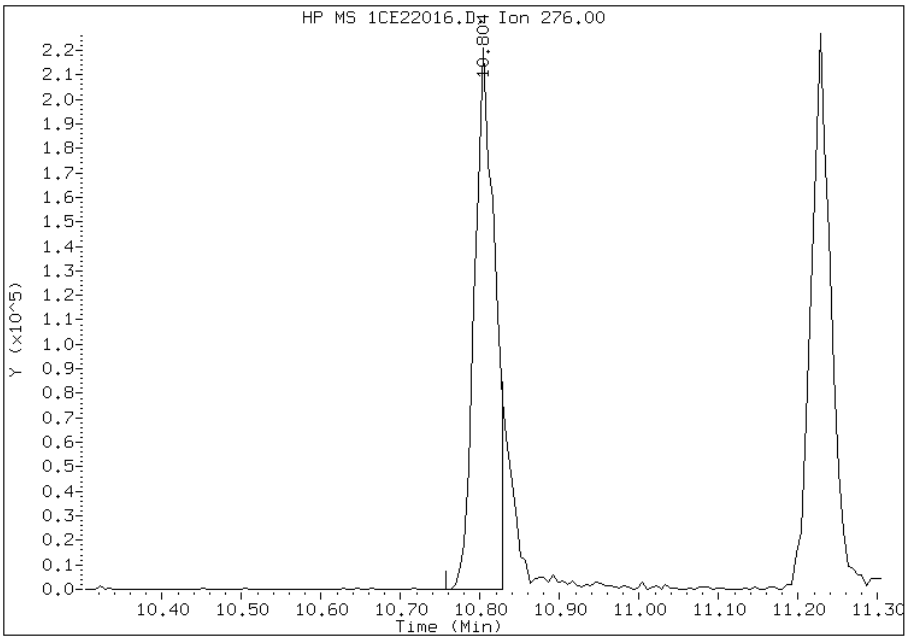
Manual Integration Results

RT: 10.80

Response: 389350

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:06
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22017.D
Lab Smp Id: IC-1531400
Inj Date : 22-MAY-2013 17:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 16:52 Cal File: 1CE22016.D
Als bottle: 17 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)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	4.057	4.057	(1.000)	2145469	40.0000	
* 6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1509779	40.0000	
* 10 Phenanthrene-d10	188	6.115	6.115	(1.000)	2867550	40.0000	
$ 14 o-Terphenyl	230	6.362	6.362	(1.040)	431889	10.0000	9.6686
* 18 Chrysene-d12	240	8.074	8.074	(1.000)	3562042	40.0000	
* 23 Perylene-d12	264	9.421	9.421	(1.000)	3464497	40.0000	
2 Naphthalene	128	4.068	4.068	(1.003)	502511	10.0000	10.0185
3 2-Methylnaphthalene	142	4.498	4.498	(1.109)	338697	10.0000	10.2456
4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	325468	10.0000	10.0505
5 Acenaphthylene	152	5.057	5.057	(0.983)	595358	10.0000	9.9610
7 Acenaphthene	154	5.163	5.163	(1.003)	367076	10.0000	9.6366
9 Fluorene	166	5.492	5.492	(1.067)	473626	10.0000	9.6643
11 Phenanthrene	178	6.127	6.127	(1.002)	781016	10.0000	9.2188
12 Anthracene	178	6.162	6.162	(1.008)	787403	10.0000	9.5798
13 Carbazole	167	6.268	6.268	(1.025)	687573	10.0000	10.5470
15 Fluoranthene	202	6.980	6.980	(1.141)	855481	10.0000	9.4459
16 Pyrene	202	7.151	7.151	(0.886)	946073	10.0000	9.8358
17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	902407	10.0000	9.4824
19 Chrysene	228	8.098	8.098	(1.003)	1006797	10.0000	10.1808
20 Benzo(b)fluoranthene	252	9.009	9.009	(0.956)	813573	10.0000	9.5578
21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	1011311	10.0000	10.6374
22 Benzo(a)pyrene	252	9.356	9.356	(0.993)	844912	10.0000	9.6562
24 Indeno(1,2,3-cd)pyrene	276	10.803	10.803	(1.147)	828947	10.0000	9.5913(M)
25 Dibenzo(a,h)anthracene	278	10.827	10.827	(1.149)	767380	10.0000	10.3775
26 Benzo(g,h,i)perylene	276	11.233	11.233	(1.192)	813279	10.0000	10.1046

QC Flag Legend

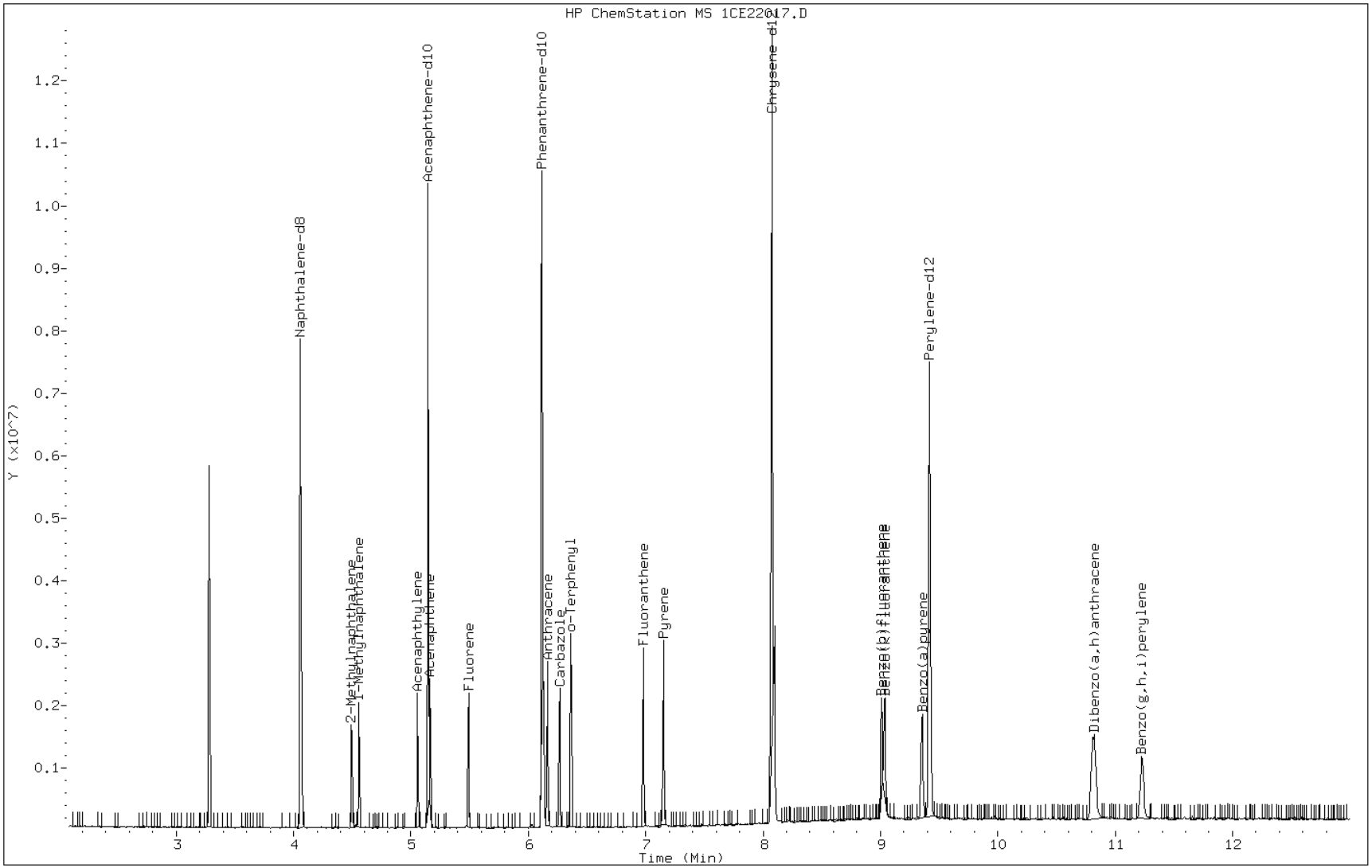
M - Compound response manually integrated.

Data File: 1CE22017.D

Date: 22-MAY-2013 17:10

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531400 Operator: SCC



Manual Integration Report

Data File: 1CE22017.D
Inj. Date and Time: 22-MAY-2013 17:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

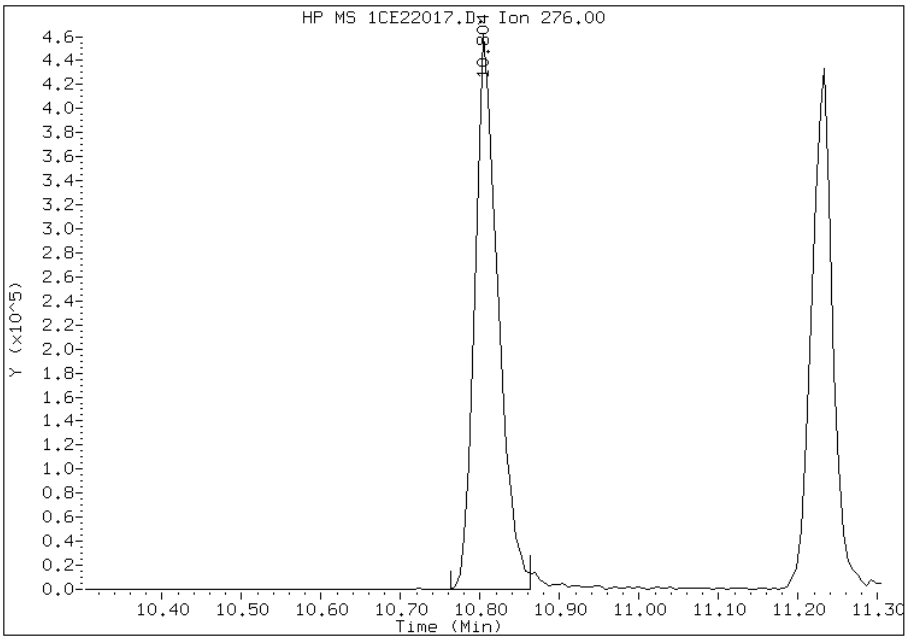
Processing Integration Results

RT: 10.80

Response: 934640

Amount: 10

Conc: 10



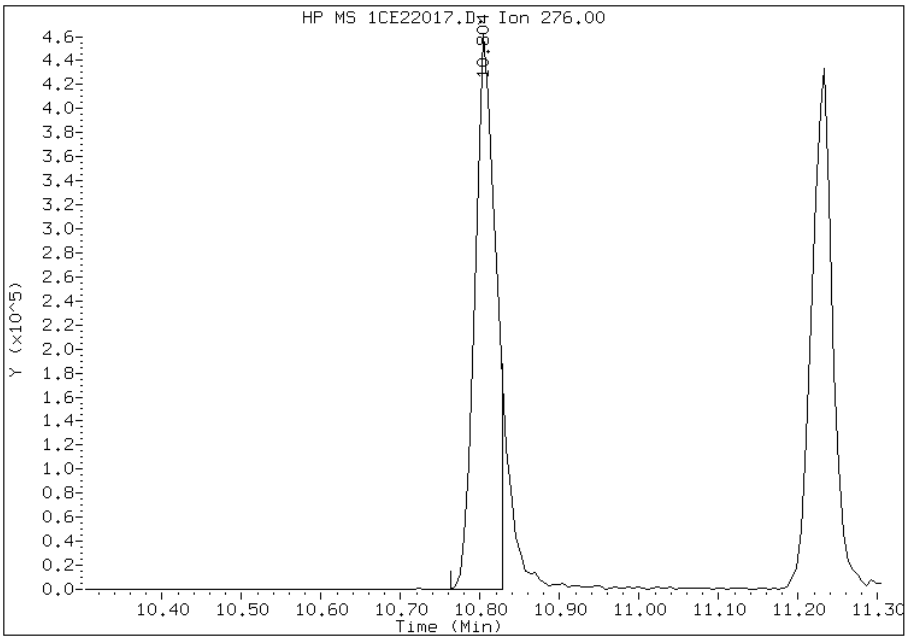
Manual Integration Results

RT: 10.80

Response: 828947

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:07
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22018.D
Lab Smp Id: ICIS-1531401
Inj Date : 22-MAY-2013 17:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 17:10 Cal File: 1CE22017.D
Als bottle: 18 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	4.057	4.057	(1.000)	2696939	40.0000	
* 6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1843203	40.0000	
* 10 Phenanthrene-d10	188	6.116	6.116	(1.000)	3628372	40.0000	
$ 14 o-Terphenyl	230	6.363	6.363	(1.040)	1155503	20.0000	20.4438
* 18 Chrysene-d12	240	8.080	8.080	(1.000)	4592658	40.0000	
* 23 Perylene-d12	264	9.421	9.421	(1.000)	4701347	40.0000	
2 Naphthalene	128	4.069	4.069	(1.003)	1290268	20.0000	20.2392
3 2-Methylnaphthalene	142	4.498	4.498	(1.109)	861867	20.0000	20.4173
4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	812801	20.0000	19.6680
5 Acenaphthylene	152	5.057	5.057	(0.983)	1503680	20.0000	20.2242
7 Acenaphthene	154	5.163	5.163	(1.003)	930965	20.0000	19.6899
9 Fluorene	166	5.492	5.492	(1.067)	1196881	20.0000	19.3332
11 Phenanthrene	178	6.133	6.133	(1.003)	2021508	20.0000	18.8578
12 Anthracene	178	6.163	6.163	(1.008)	2033868	20.0000	19.0224
13 Carbazole	167	6.268	6.268	(1.025)	1771988	20.0000	21.4818
15 Fluoranthene	202	6.980	6.980	(1.141)	2280567	20.0000	19.2658
16 Pyrene	202	7.151	7.151	(0.885)	2585241	20.0000	20.8460
17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	2496189	20.0000	19.9640
19 Chrysene	228	8.098	8.098	(1.002)	2553612	20.0000	20.0277
20 Benzo(b)fluoranthene	252	9.009	9.009	(0.956)	2511123	20.0000	21.7394
21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	2593145	20.0000	20.1000
22 Benzo(a)pyrene	252	9.357	9.357	(0.993)	2373859	20.0000	19.0736
24 Indeno(1,2,3-cd)pyrene	276	10.809	10.809	(1.147)	2270654	20.0000	18.1509(M)
25 Dibenzo(a,h)anthracene	278	10.827	10.827	(1.149)	2135605	20.0000	21.2824
26 Benzo(g,h,i)perylene	276	11.233	11.233	(1.192)	2336946	20.0000	21.3967

QC Flag Legend

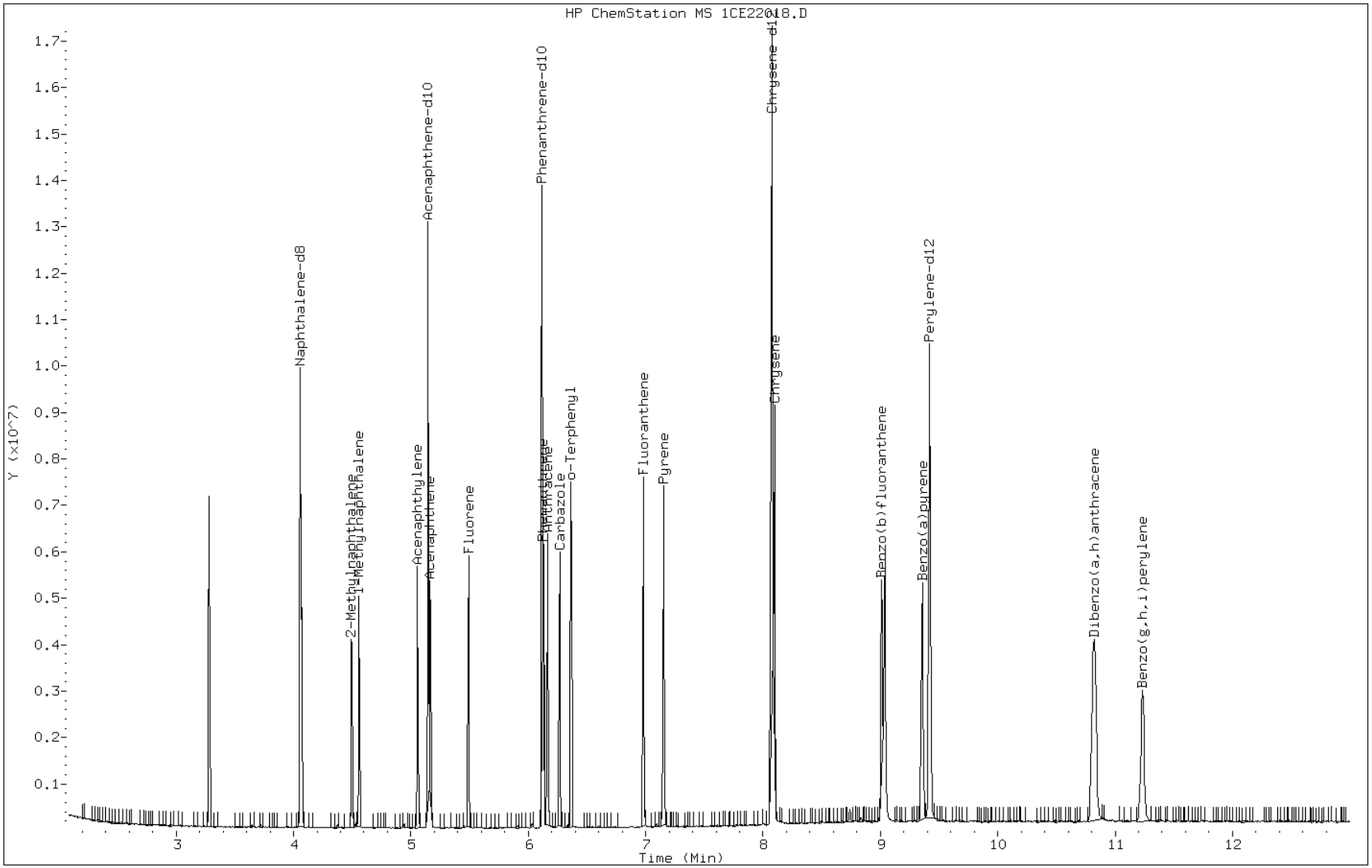
M - Compound response manually integrated.

Data File: 1CE22018.D

Date: 22-MAY-2013 17:29

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CE22018.D
Inj. Date and Time: 22-MAY-2013 17:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

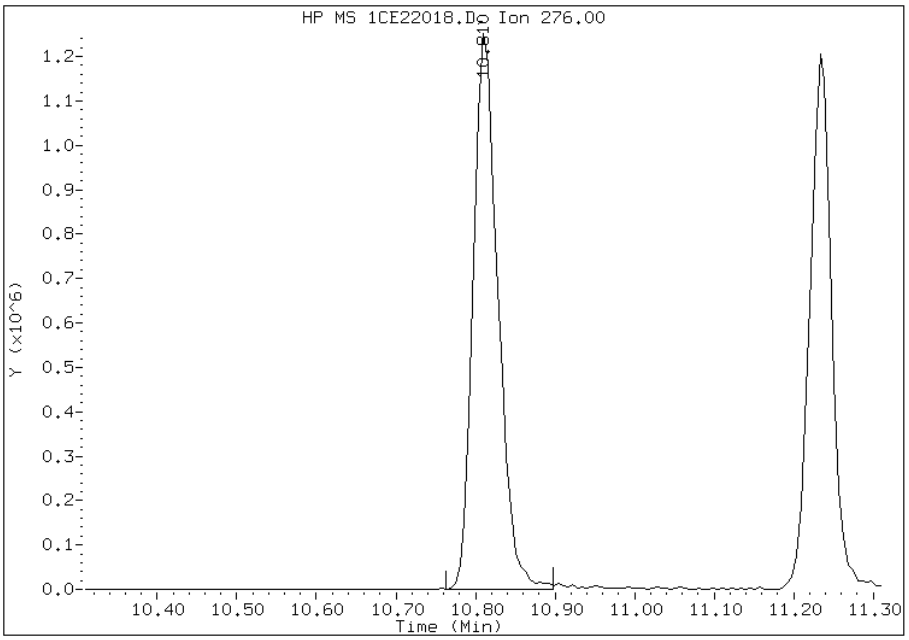
Processing Integration Results

RT: 10.81

Response: 2702405

Amount: 21

Conc: 21



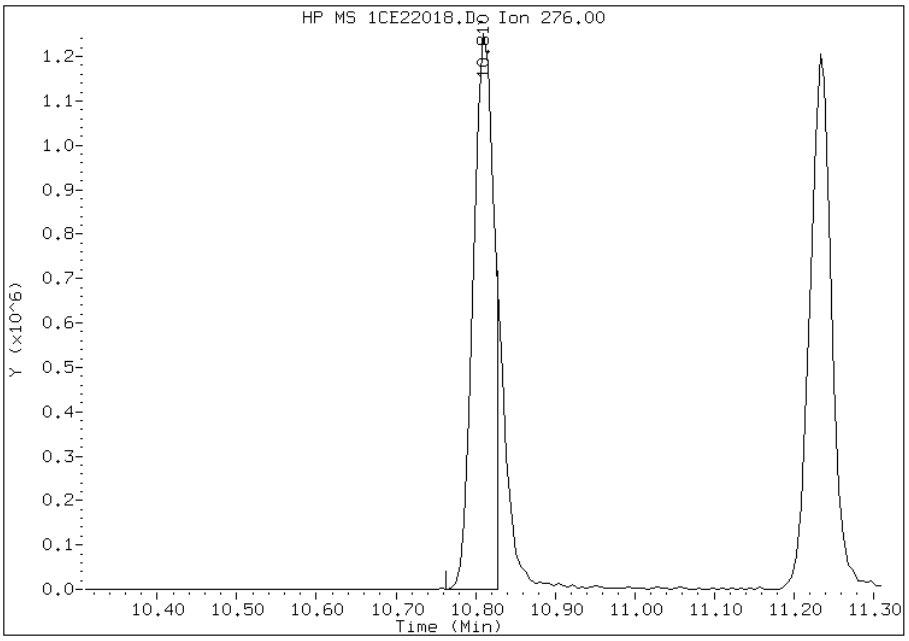
Manual Integration Results

RT: 10.81

Response: 2270654

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 22-May-2013 18:03
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22019.D
Lab Smp Id: IC-1531402
Inj Date : 22-MAY-2013 17:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 17:29 Cal File: 1CE22018.D
Als bottle: 19 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)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	4.057	4.057	(1.000)	2068326	40.0000	
* 6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1427326	40.0000	
* 10 Phenanthrene-d10	188	6.116	6.116	(1.000)	2638178	40.0000	
$ 14 o-Terphenyl	230	6.363	6.363	(1.040)	1331814	30.0000	32.4073
* 18 Chrysene-d12	240	8.074	8.074	(1.000)	3302140	40.0000	
* 23 Perylene-d12	264	9.421	9.421	(1.000)	3377140	40.0000	
2 Naphthalene	128	4.069	4.069	(1.003)	1475133	30.0000	29.5453
3 2-Methylnaphthalene	142	4.498	4.498	(1.109)	970702	30.0000	29.4444
4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	973704	30.0000	30.2912
5 Acenaphthylene	152	5.057	5.057	(0.983)	1744024	30.0000	29.8344
7 Acenaphthene	154	5.163	5.163	(1.003)	1069111	30.0000	29.0526
9 Fluorene	166	5.492	5.492	(1.067)	1415229	30.0000	29.1903
11 Phenanthrene	178	6.133	6.133	(1.003)	2310027	30.0000	29.6374
12 Anthracene	178	6.168	6.168	(1.009)	2351205	30.0000	29.9418
13 Carbazole	167	6.268	6.268	(1.025)	2042937	30.0000	34.0622
15 Fluoranthene	202	6.980	6.980	(1.141)	2594572	30.0000	29.8212
16 Pyrene	202	7.151	7.151	(0.886)	2821005	30.0000	31.6369
17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	2759615	30.0000	30.3926
19 Chrysene	228	8.098	8.098	(1.003)	2753228	30.0000	30.0322
20 Benzo(b)fluoranthene	252	9.015	9.015	(0.957)	2780406	30.0000	33.5091
21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	2862522	30.0000	30.8881
22 Benzo(a)pyrene	252	9.357	9.357	(0.993)	2630366	30.0000	28.9560
24 Indeno(1,2,3-cd)pyrene	276	10.809	10.809	(1.147)	2670728	30.0000	28.9631(M)
25 Dibenzo(a,h)anthracene	278	10.833	10.833	(1.150)	2393229	30.0000	33.2015
26 Benzo(g,h,i)perylene	276	11.233	11.233	(1.192)	2483401	30.0000	31.6533

QC Flag Legend

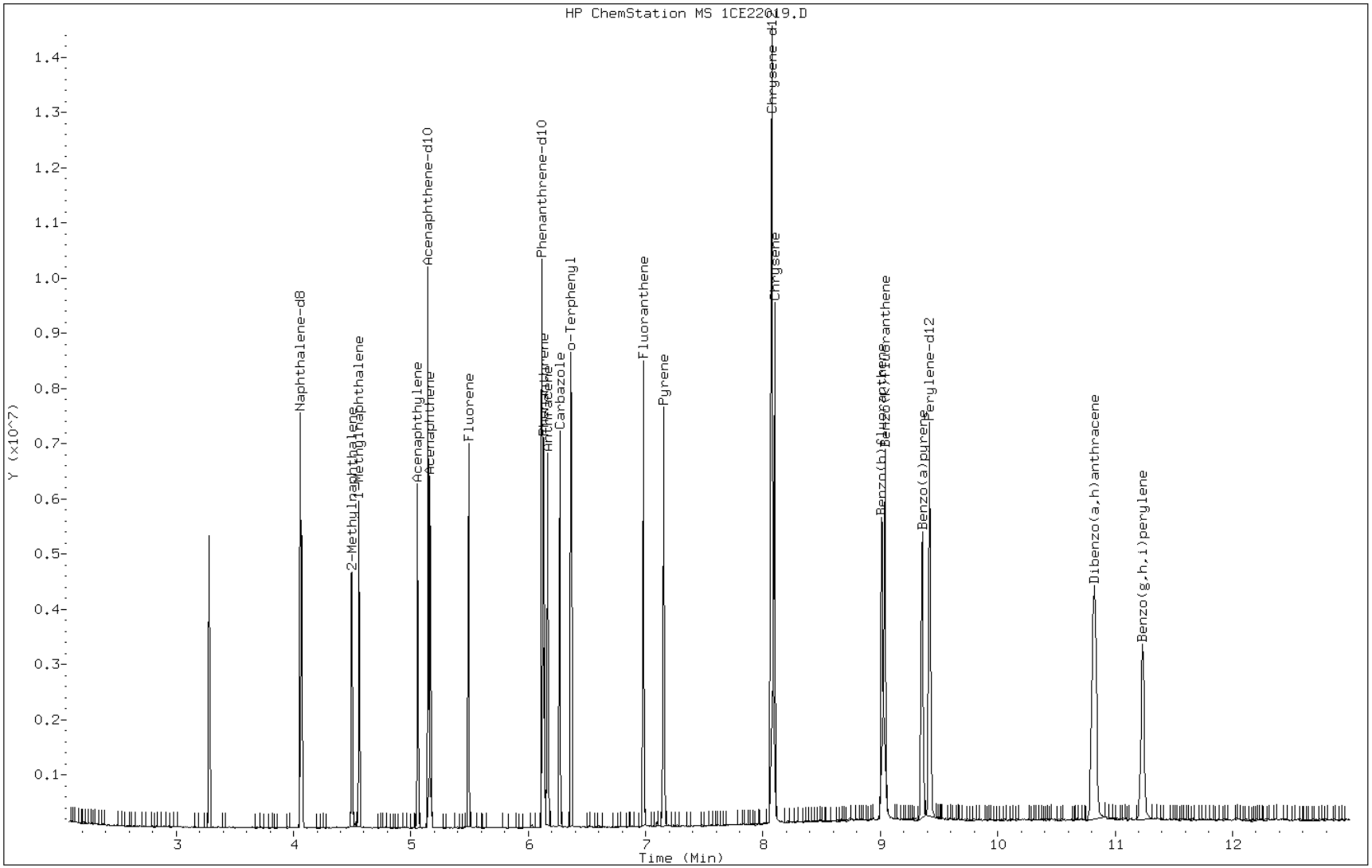
M - Compound response manually integrated.

Data File: 1CE22019.D

Date: 22-MAY-2013 17:47

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531402 Operator: SCC



Manual Integration Report

Data File: 1CE22019.D
Inj. Date and Time: 22-MAY-2013 17:47
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

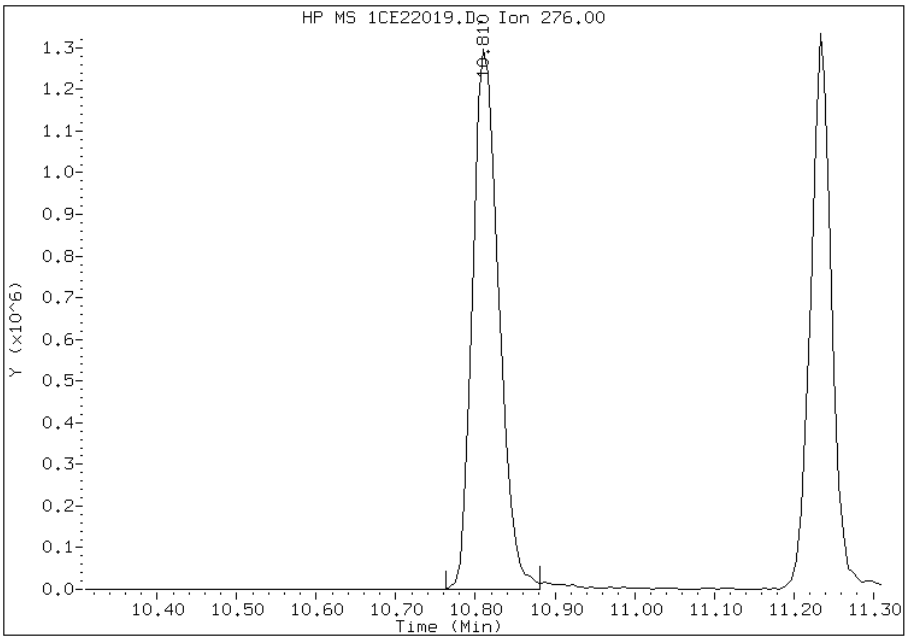
Processing Integration Results

RT: 10.81

Response: 2965644

Amount: 32

Conc: 32



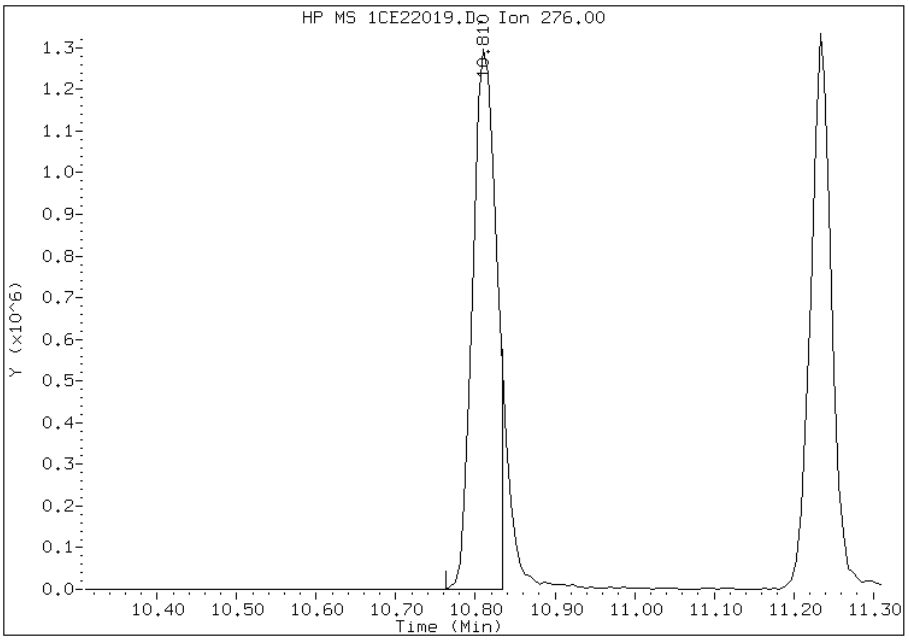
Manual Integration Results

RT: 10.81

Response: 2670728

Amount: 29

Conc: 29



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:07
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22020.D
Lab Smp Id: IC-1531403
Inj Date : 22-MAY-2013 18:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 17:47 Cal File: 1CE22019.D
Als bottle: 20 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)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	4.057	4.057	(1.000)	2200854	40.0000	
* 6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1541984	40.0000	
* 10 Phenanthrene-d10	188	6.115	6.115	(1.000)	2936983	40.0000	
$ 14 o-Terphenyl	230	6.368	6.368	(1.041)	2489982	50.0000	54.4249(A)
* 18 Chrysene-d12	240	8.080	8.080	(1.000)	3735164	40.0000	
* 23 Perylene-d12	264	9.421	9.421	(1.000)	3666876	40.0000	
2 Naphthalene	128	4.068	4.068	(1.003)	2829693	50.0000	50.0994(A)
3 2-Methylnaphthalene	142	4.498	4.498	(1.109)	1846051	50.0000	50.1042(A)
4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	1753070	50.0000	49.9439
5 Acenaphthylene	152	5.057	5.057	(0.983)	3262336	50.0000	50.0238(A)
7 Acenaphthene	154	5.168	5.168	(1.005)	2023281	50.0000	50.6638(A)
9 Fluorene	166	5.492	5.492	(1.067)	2683311	50.0000	50.7564(A)
11 Phenanthrene	178	6.133	6.133	(1.003)	4422781	50.0000	50.9708(A)
12 Anthracene	178	6.168	6.168	(1.009)	4441751	50.0000	50.4523(A)
13 Carbazole	167	6.268	6.268	(1.025)	3814591	50.0000	57.1306(A)
15 Fluoranthene	202	6.980	6.980	(1.141)	4926903	50.0000	50.4621(A)
16 Pyrene	202	7.157	7.157	(0.886)	5350270	50.0000	53.0459(A)
17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	5197458	50.0000	49.8822
19 Chrysene	228	8.098	8.098	(1.002)	5304178	50.0000	51.1504(A)
20 Benzo(b)fluoranthene	252	9.015	9.015	(0.957)	5119876	50.0000	56.8286(A)
21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	5598875	50.0000	55.6412(A)
22 Benzo(a)pyrene	252	9.356	9.356	(0.993)	5093564	50.0000	50.9688(A)
24 Indeno(1,2,3-cd)pyrene	276	10.815	10.815	(1.148)	5226444	50.0000	51.2476(AM)
25 Dibenzo(a,h)anthracene	278	10.839	10.839	(1.150)	4518350	50.0000	57.7307(A)
26 Benzo(g,h,i)perylene	276	11.244	11.244	(1.194)	4818870	50.0000	56.5679(A)

QC Flag Legend

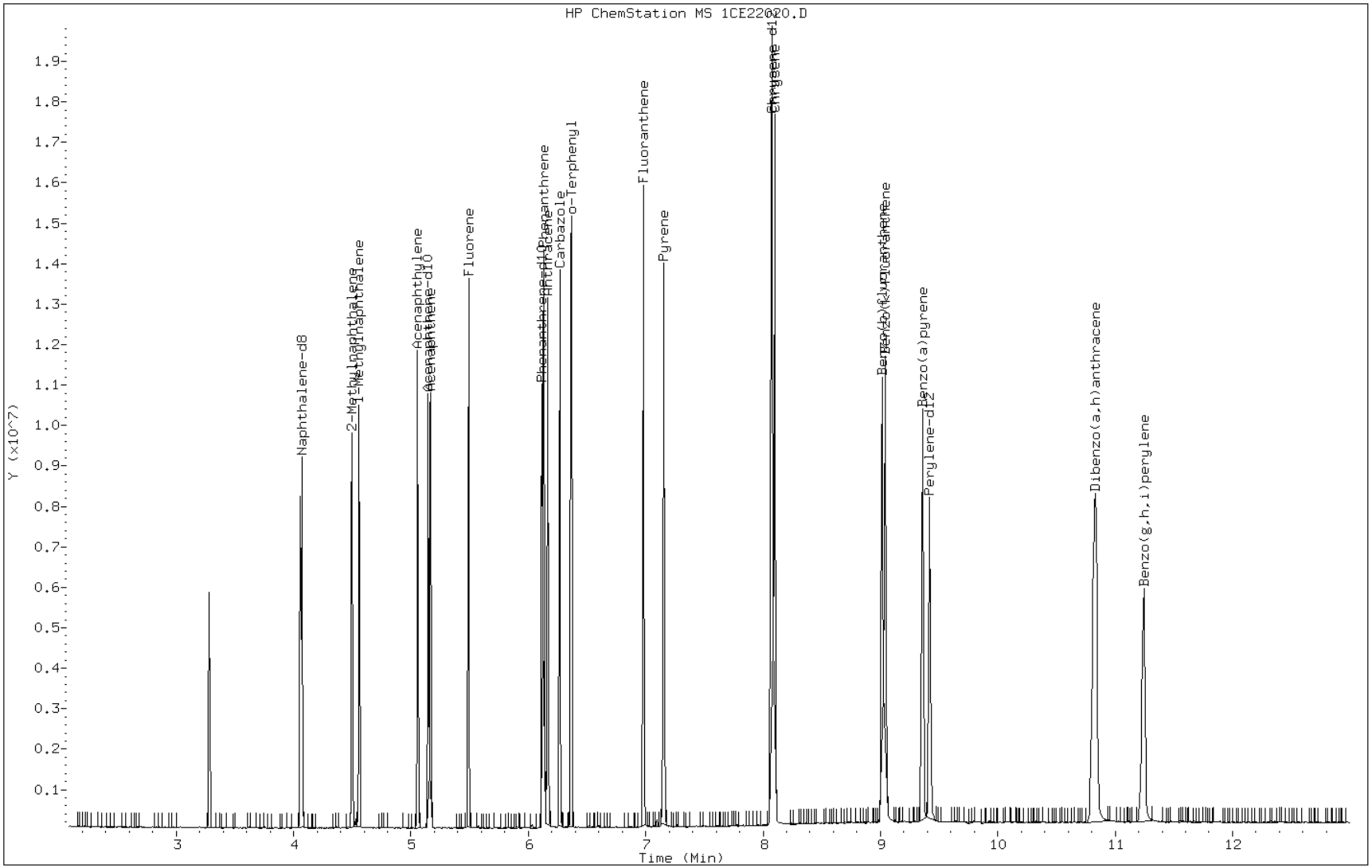
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1CE22020.D

Date: 22-MAY-2013 18:05

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531403 Operator: SCC



Manual Integration Report

Data File: 1CE22020.D
Inj. Date and Time: 22-MAY-2013 18:05
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

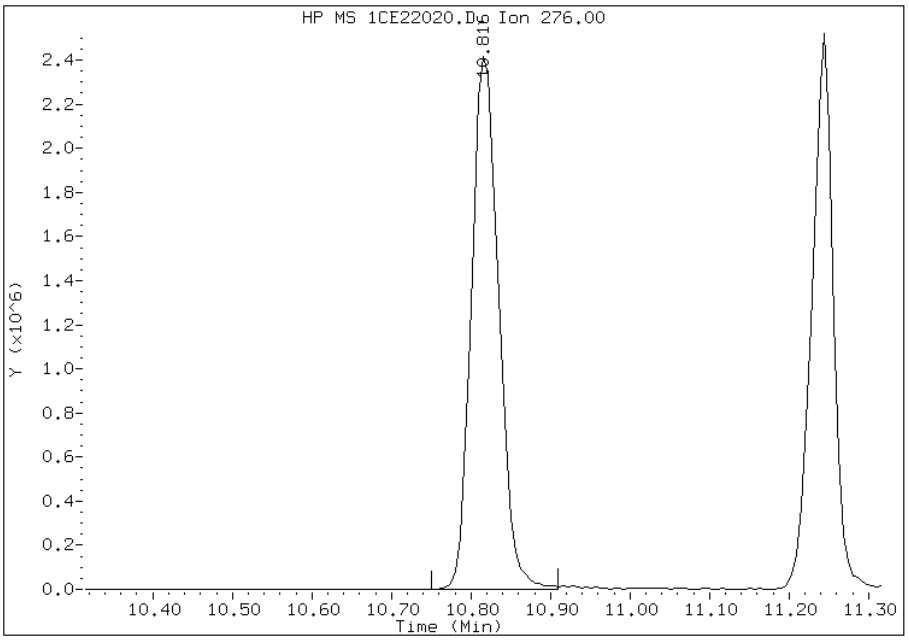
Processing Integration Results

RT: 10.82

Response: 5750303

Amount: 52

Conc: 52



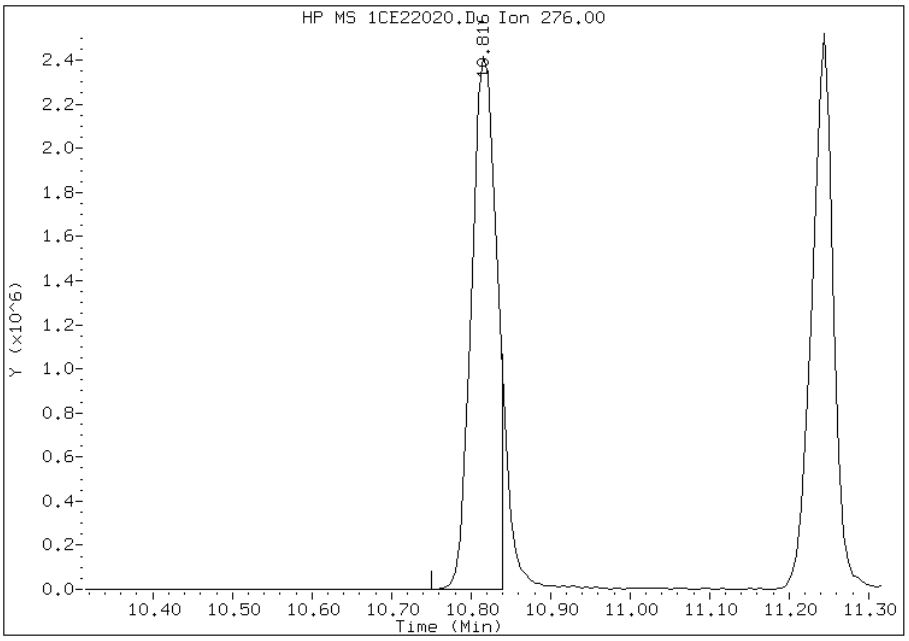
Manual Integration Results

RT: 10.82

Response: 5226444

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:09
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-2 Analy Batch No.: 137830

SDG No.: 68090723-2

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.: 680-90723-2 Analy Batch No.: 137830

SDG No.: 68090723-2

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.: 680-90723-2 Analy Batch No.: 137830

SDG No.: 68090723-2

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.: 680-90723-2 Analy Batch No.: 137830

SDG No.: 68090723-2

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)	AMOUNTS 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

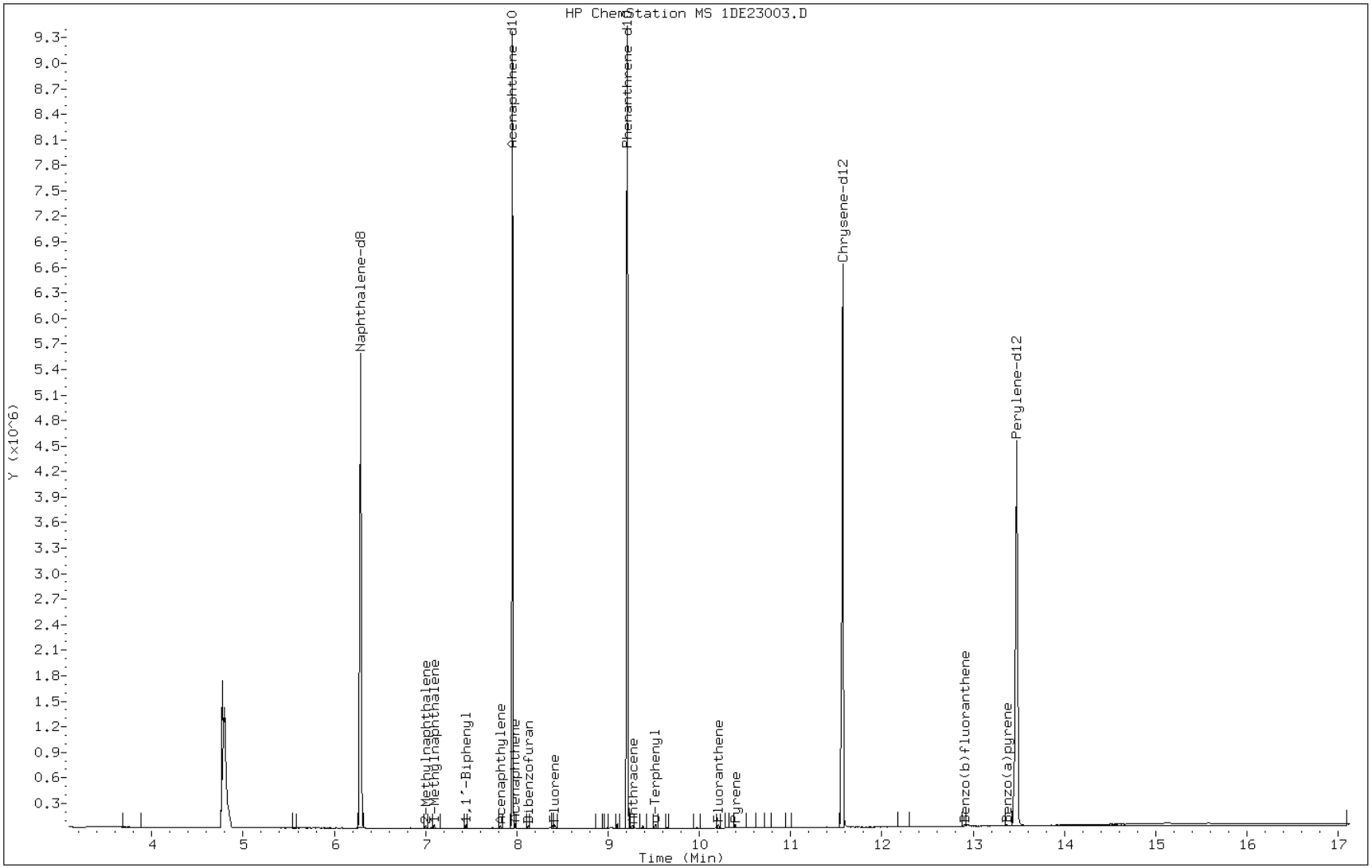
Date: 23-MAY-2013 13:03

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

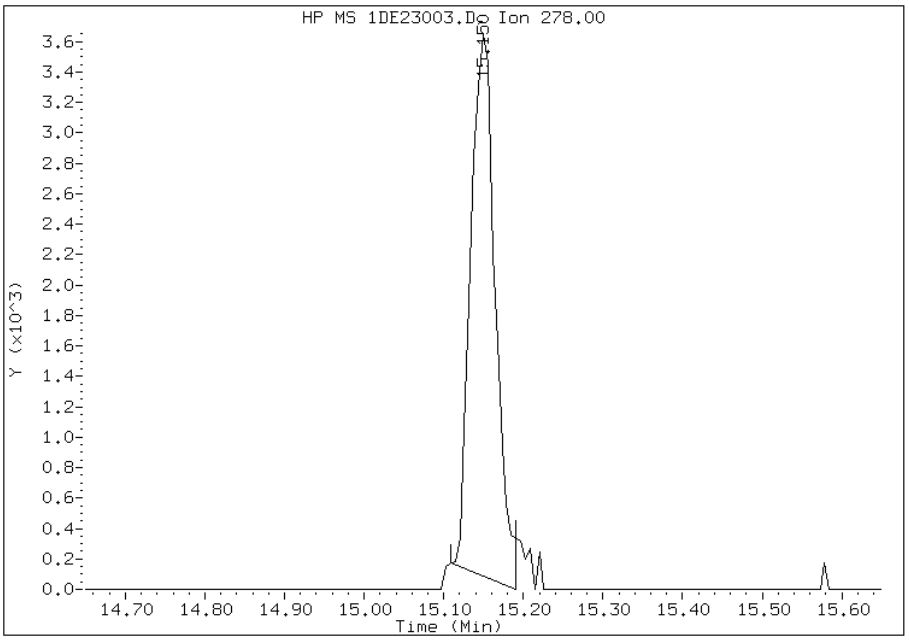
Processing Integration Results

RT: 15.15

Response: 7611

Amount: 0

Conc: 0



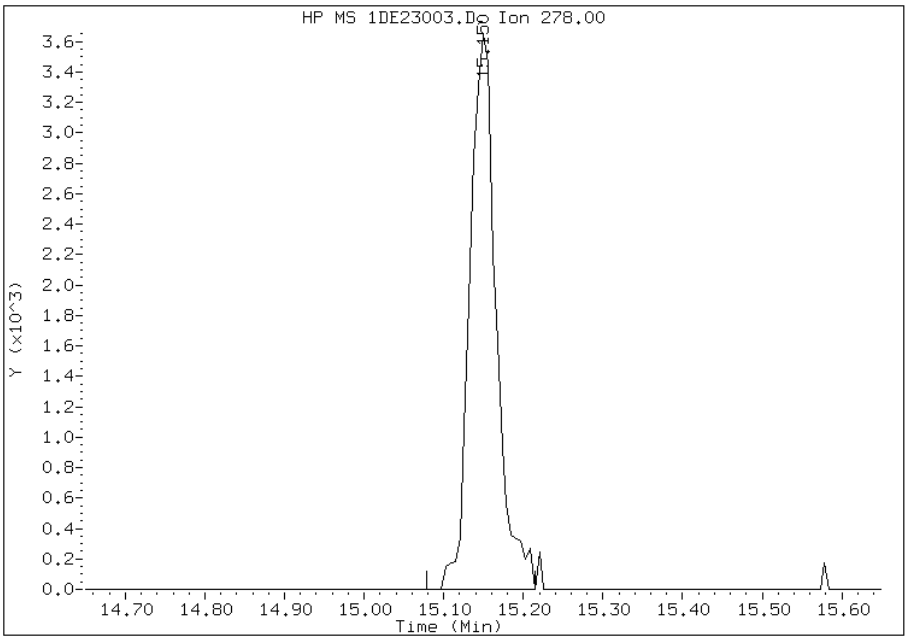
Manual Integration Results

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

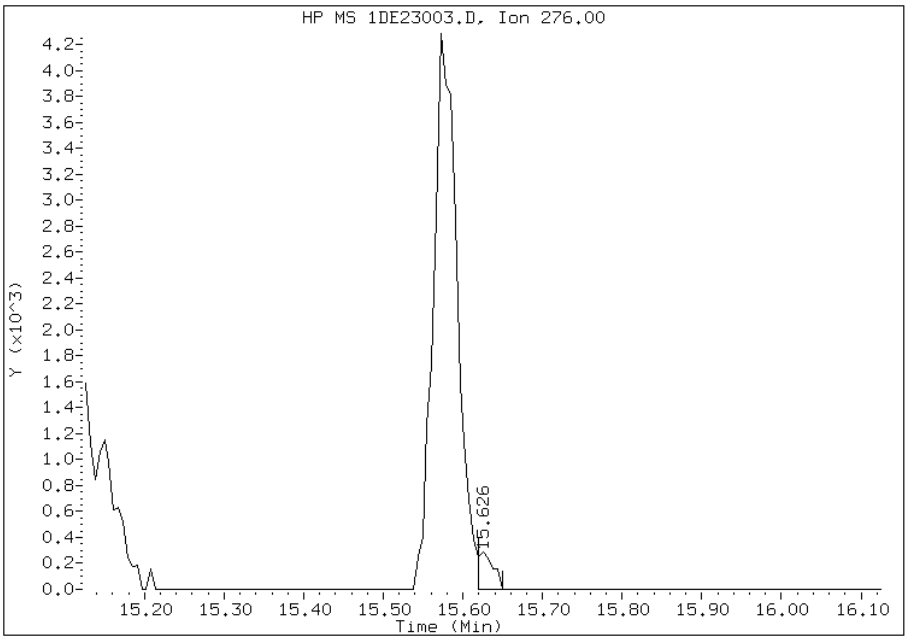
Processing Integration Results

RT: 15.63

Response: 387

Amount: 0

Conc: 0



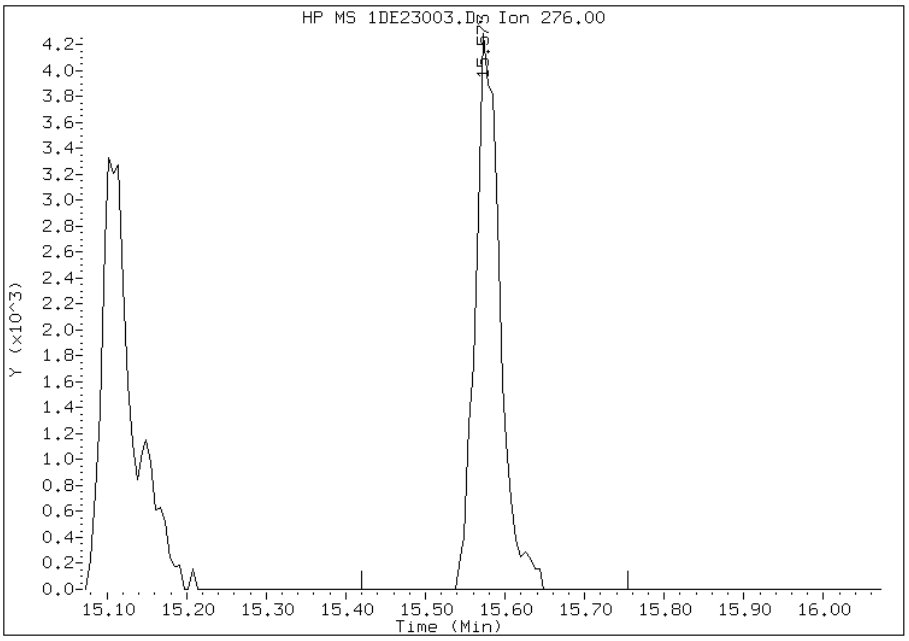
Manual Integration Results

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)	AMOUNTS 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

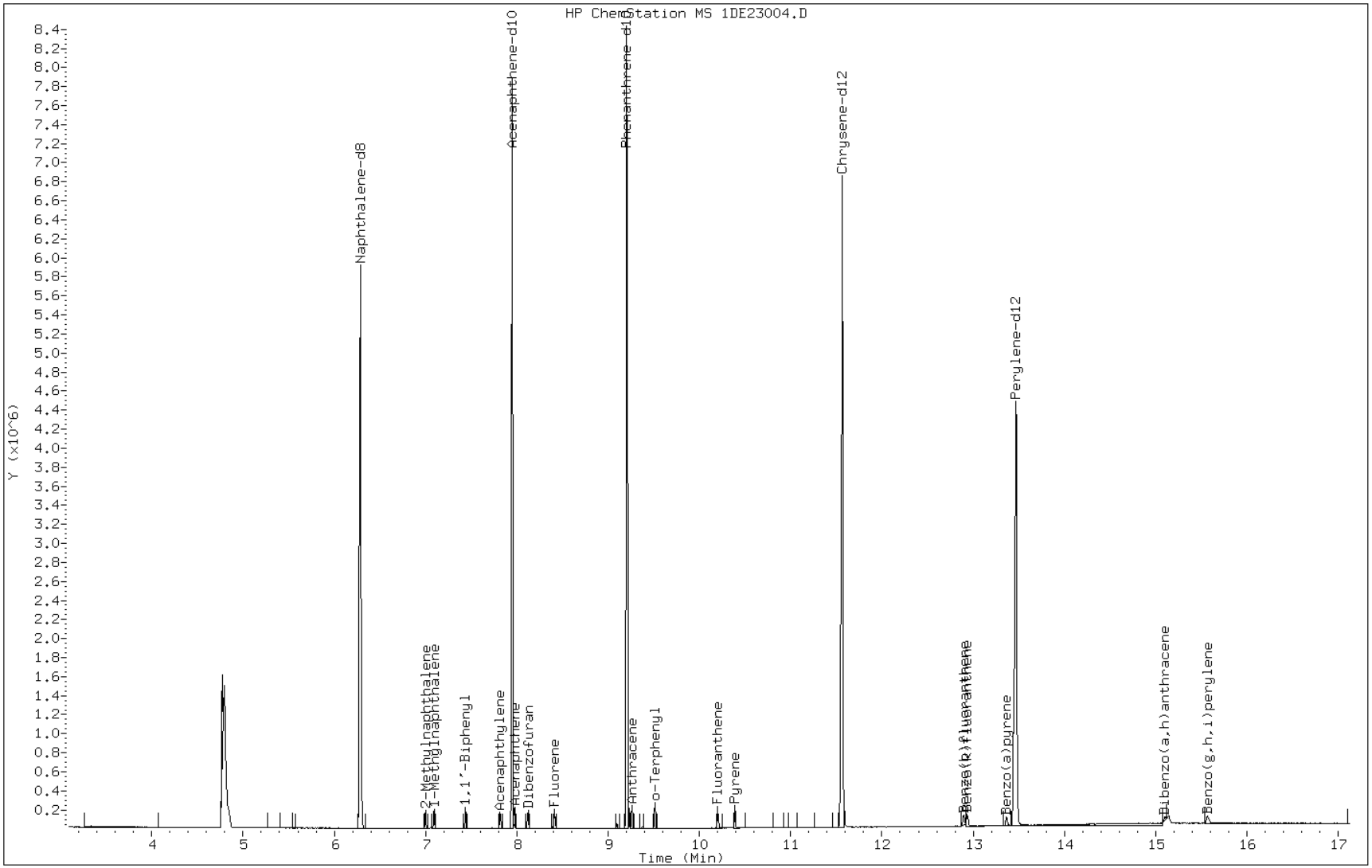
H - Operator selected an alternate compound hit.

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)	AMOUNTS 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

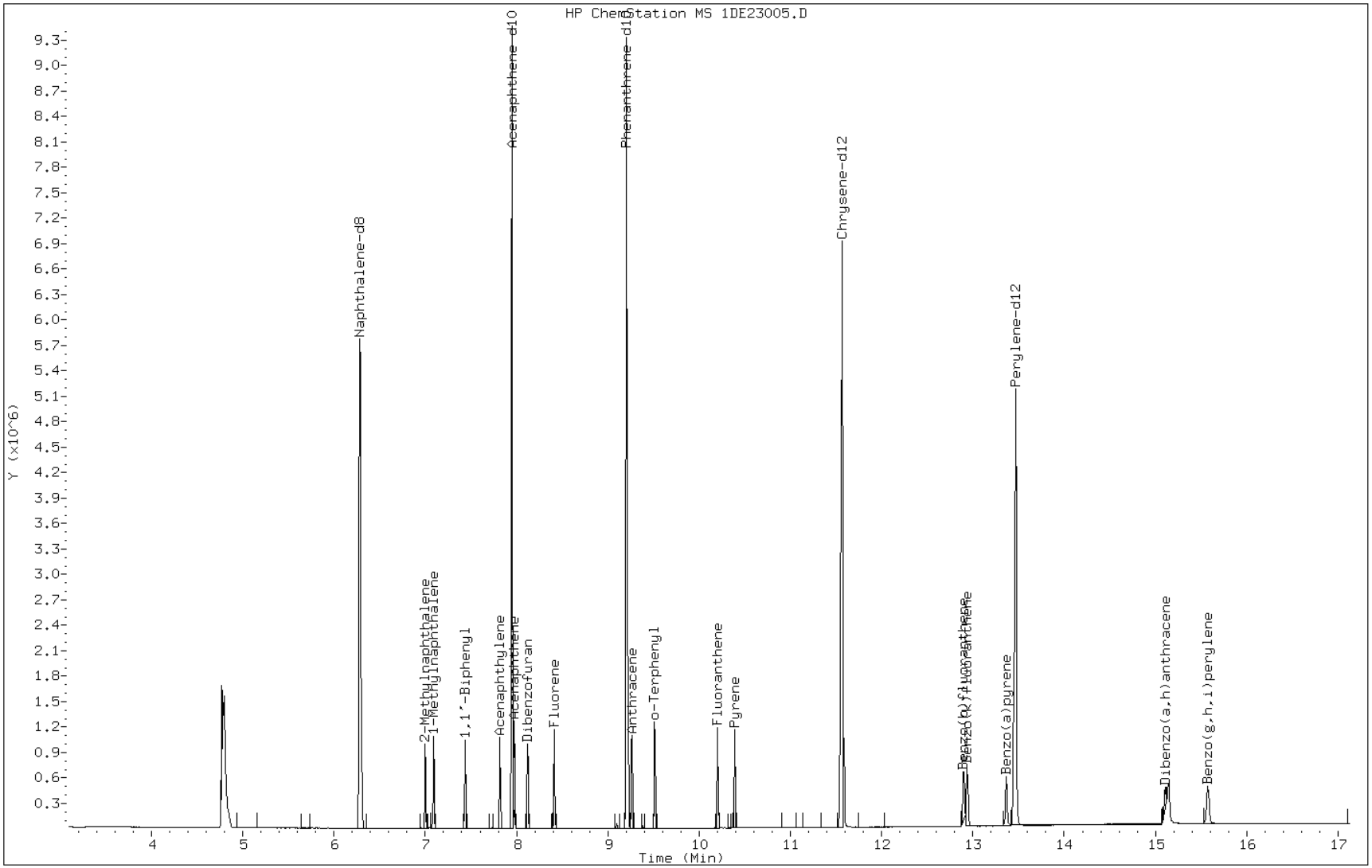
Date: 23-MAY-2013 13:48

Client ID:

Instrument: BSMSD.i

Sample Info: IC3

Operator: SCC



TestAmerica Laboratories

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)	AMOUNTS 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

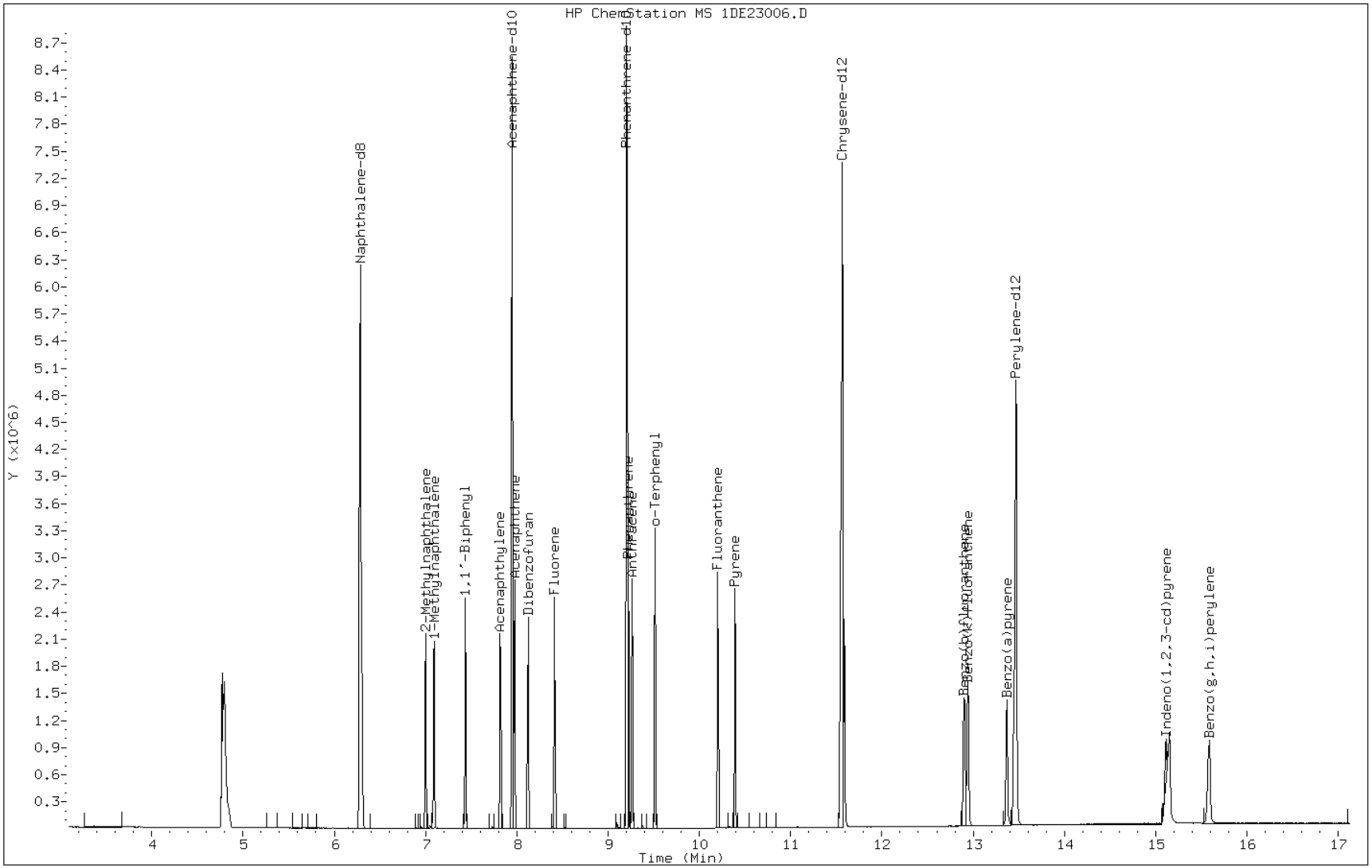
Date: 23-MAY-2013 14:11

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

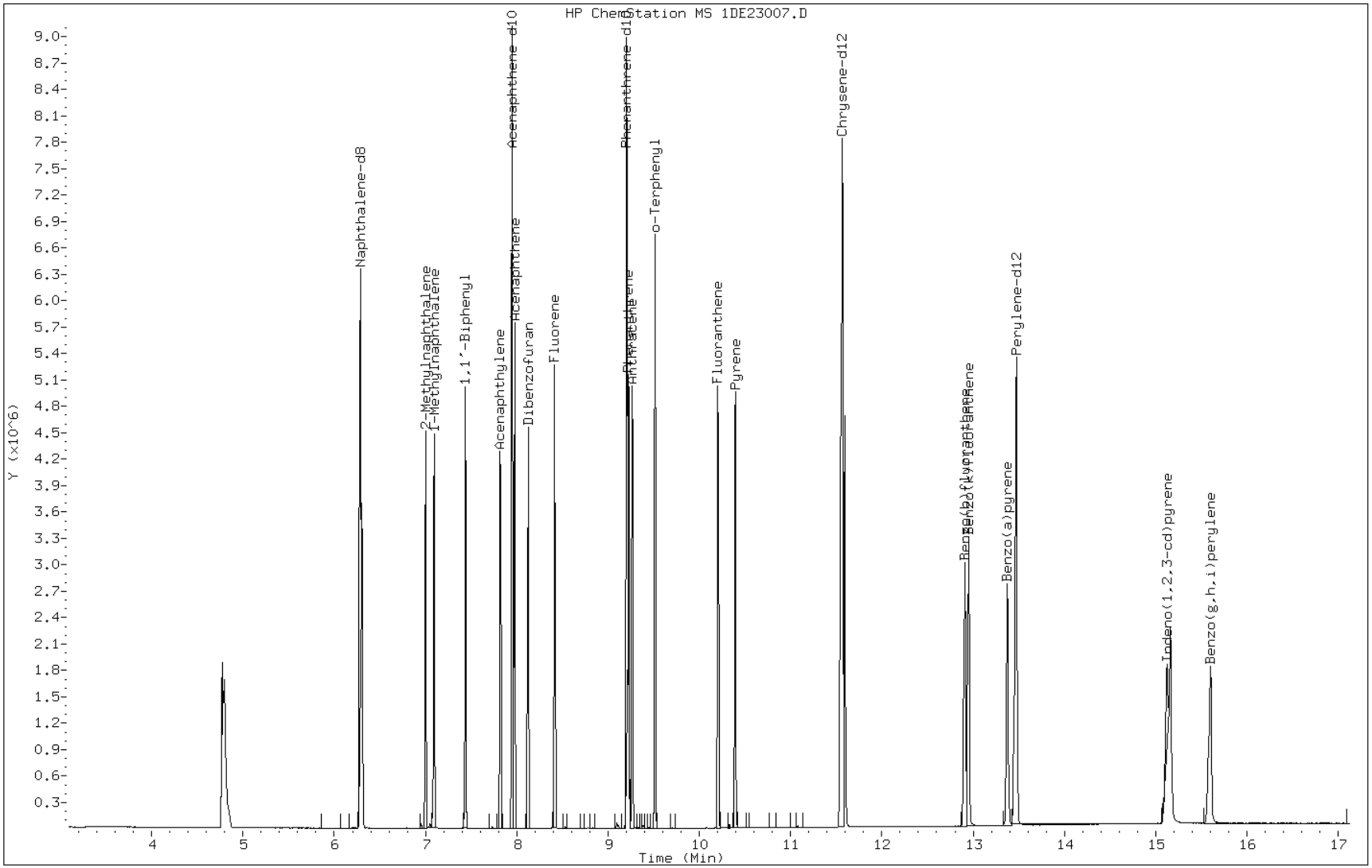
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.284	6.284	(1.000)	3209942	40.0000	
* 7 Acenaphthene-d10	164	7.947	7.947	(1.000)	1824950	40.0000	
* 11 Phenanthrene-d10	188	9.204	9.204	(1.000)	3071098	40.0000	
$ 15 o-Terphenyl	230	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

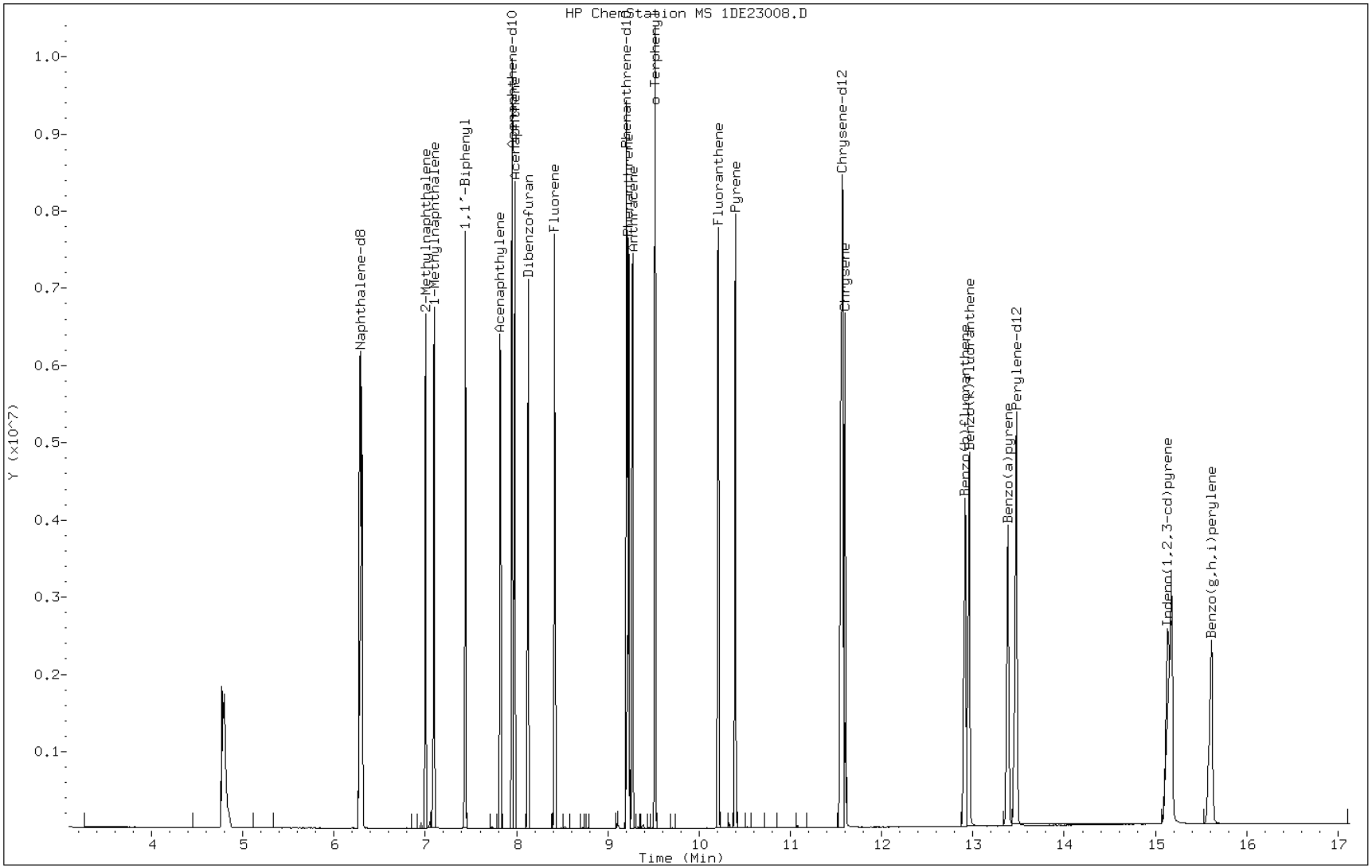
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.286	6.286	(1.000)	3364617	40.0000	
* 7 Acenaphthene-d10	164	7.949	7.949	(1.000)	1886585	40.0000	
* 11 Phenanthrene-d10	188	9.206	9.206	(1.000)	3193681	40.0000	
$ 15 o-Terphenyl	230	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)	AMOUNTS 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

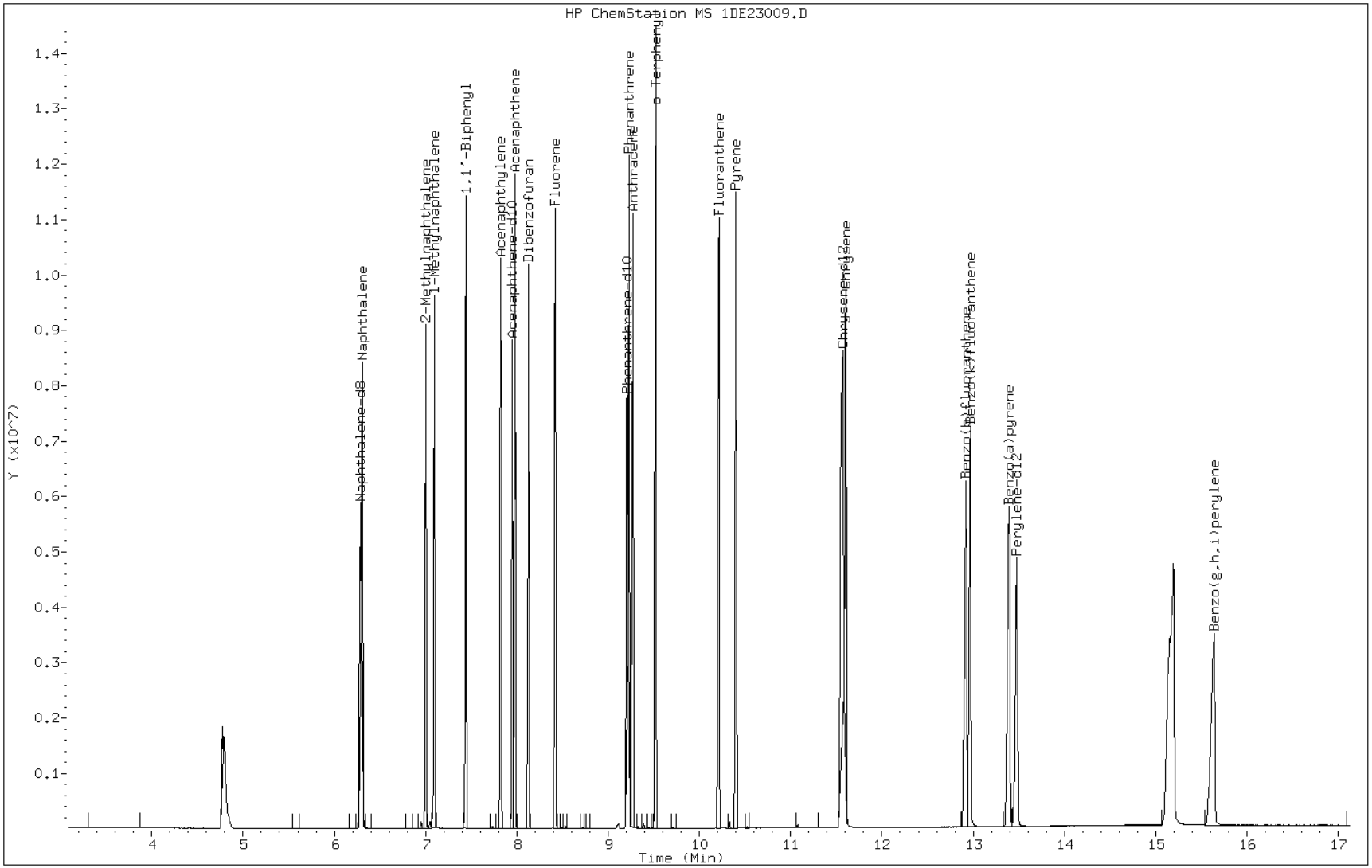
A - Target compound detected but, quantitated amount exceeded maximum amount.

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.: 680-90723-2

SDG No.: 68090723-2

Lab Sample ID: ICV 660-137704/22 Calibration Date: 05/22/2013 18:24

Instrument ID: BSMC5973 Calib Start Date: 05/22/2013 16:16

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/22/2013 18:05

Lab File ID: 1CE22021.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9715	0.9301	0.0000	16500	20000	-4.3	35.0
2-Methylnaphthalene	Ave	0.6261	0.6170	0.0000	19700	20000	-1.5	35.0
1-Methylnaphthalene	Ave	0.6160	0.5991	0.0000	19400	20000	-2.7	35.0
Acenaphthylene	Ave	1.533	1.564	0.0000	20400	20000	2.0	35.0
Acenaphthene	Ave	0.9616	1.032	0.0000	21500	20000	7.3	35.0
Fluorene	Ave	1.227	1.251	0.0000	20400	20000	2.0	35.0
Phenanthrene	Ave	1.182	1.066	0.0000	18000	20000	-9.8	35.0
Anthracene	Ave	1.095	1.062	0.0000	19400	20000	-3.0	35.0
Carbazole	None		0.9704	0.0000	19100	20000	-4.5	35.0
Fluoranthene	Ave	1.208	1.218	0.0000	20200	20000	0.8	35.0
Pyrene	Ave	1.080	1.007	0.0000	18600	20000	-6.8	35.0
Benzo[a]anthracene	Ave	1.103	1.086	0.0000	19700	20000	-1.6	35.0
Chrysene	Ave	1.111	0.9873	0.0000	17800	20000	-11.1	35.0
Benzo[b]fluoranthene	Ave	0.9828	1.049	0.0000	21400	20000	6.8	35.0
Benzo[k]fluoranthene	Ave	1.098	1.039	0.0000	18900	20000	-5.4	35.0
Benzo[a]pyrene	Lin2	0.9064	0.8617	0.0000	17200	20000	-13.8	35.0
Indeno[1,2,3-cd]pyrene	None		0.8942	0.0000	16900	20000	-15.6	35.0
Dibenz(a,h)anthracene	Ave	0.8538	0.9488	0.0000	22200	20000	11.1	35.0
Benzo[g,h,i]perylene	Ave	0.9293	0.9372	0.0000	20200	20000	0.9	35.0
o-Terphenyl	Ave	0.6231	0.5760	0.0000	18500	20000	-7.6	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22021.D
Lab Smp Id: ICV-1448440
Inj Date : 22-MAY-2013 18:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:16 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 21 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	4.057	4.057	(1.000)	3002271	40.0000	
* 6 Acenaphthene-d10	164	5.145	5.145	(1.000)	2105599	40.0000	
* 10 Phenanthrene-d10	188	6.115	6.116	(1.000)	3933786	40.0000	
$ 14 o-Terphenyl	230	6.368	6.369	(1.041)	1132912	18.4880	18.4879
* 18 Chrysene-d12	240	8.080	8.080	(1.000)	4897113	40.0000	
* 23 Perylene-d12	264	9.421	9.422	(1.000)	5001508	40.0000	
2 Naphthalene	128	4.068	4.069	(1.003)	1396179	16.4792	16.4791
3 2-Methylnaphthalene	142	4.498	4.498	(1.109)	926205	19.7091	19.7091
4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	899280	19.4499	19.4499
5 Acenaphthylene	152	5.057	5.057	(0.983)	1647037	20.4044	20.4044
7 Acenaphthene	154	5.168	5.169	(1.005)	1085991	21.4542	21.4542
9 Fluorene	166	5.492	5.492	(1.067)	1317395	20.3970	20.3969
11 Phenanthrene	178	6.133	6.134	(1.003)	2097305	18.0459	18.0458
12 Anthracene	178	6.162	6.169	(1.008)	2089618	19.4074	19.4074
13 Carbazole	167	6.268	6.269	(1.025)	1908718	19.0953	19.0952
15 Fluoranthene	202	6.980	6.981	(1.141)	2395060	20.1616	20.1615
16 Pyrene	202	7.151	7.157	(0.885)	2466023	18.6485	18.6484

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	8.068	8.069	(0.999)	2658526	19.6876	19.6876
19 Chrysene	228	8.098	8.098	(1.002)	2417569	17.7820	17.7819
20 Benzo(b)fluoranthene	252	9.009	9.016	(0.956)	2624437	21.3569	21.3569
21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	2597310	18.9241	18.9240
22 Benzo(a)pyrene	252	9.356	9.357	(0.993)	2154856	17.2473	17.2473
24 Indeno(1,2,3-cd)pyrene	276	10.809	10.816	(1.147)	2236055	16.8743	16.8743(M)
25 Dibenzo(a,h)anthracene	278	10.827	10.839	(1.149)	2372617	22.2254	22.2254
26 Benzo(g,h,i)perylene	276	11.233	11.245	(1.192)	2343662	20.1705	20.1704

QC Flag Legend

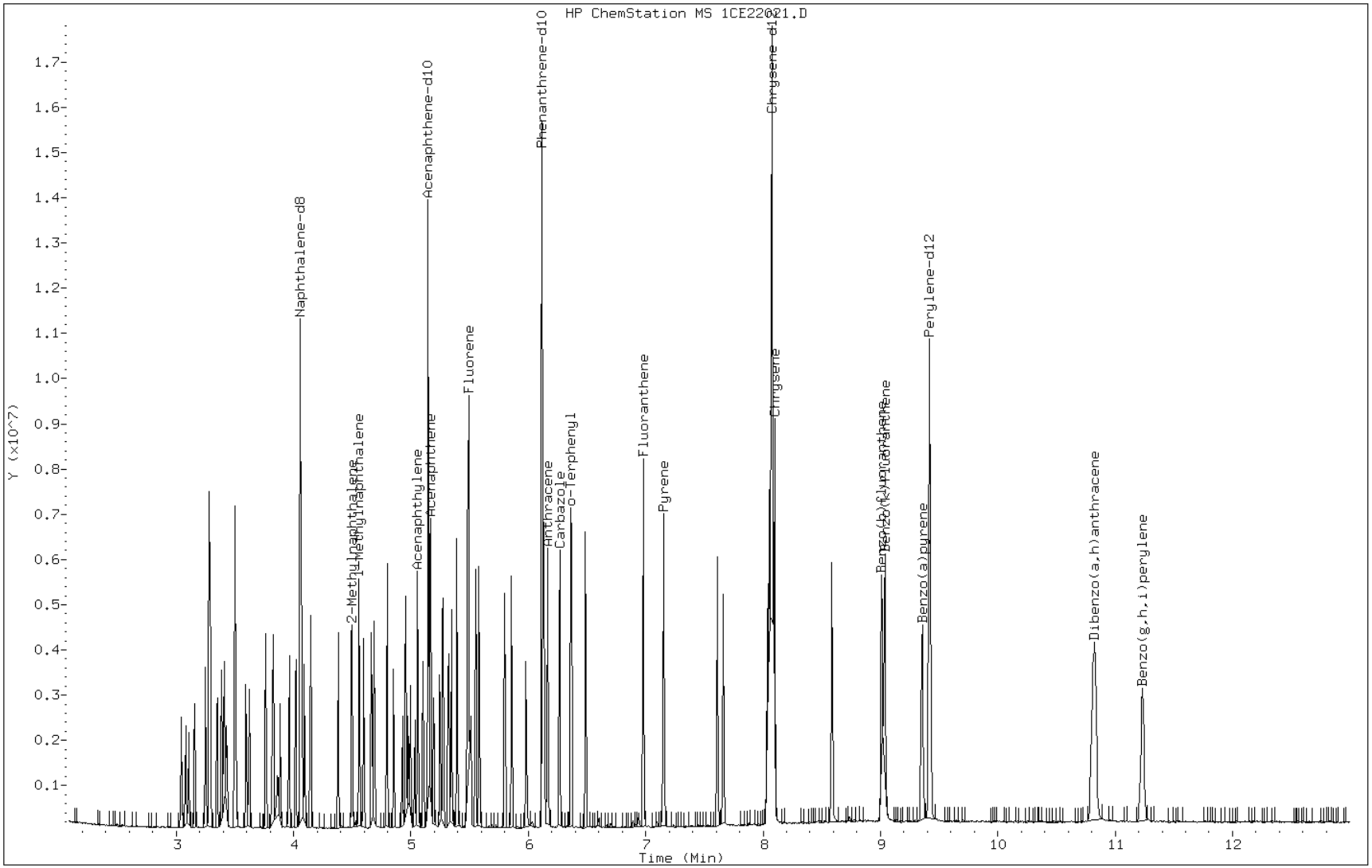
M - Compound response manually integrated.

Data File: 1CE22021.D

Date: 22-MAY-2013 18:24

Client ID: Instrument: BSMC5973.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1CE22021.D
Inj. Date and Time: 22-MAY-2013 18:24
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

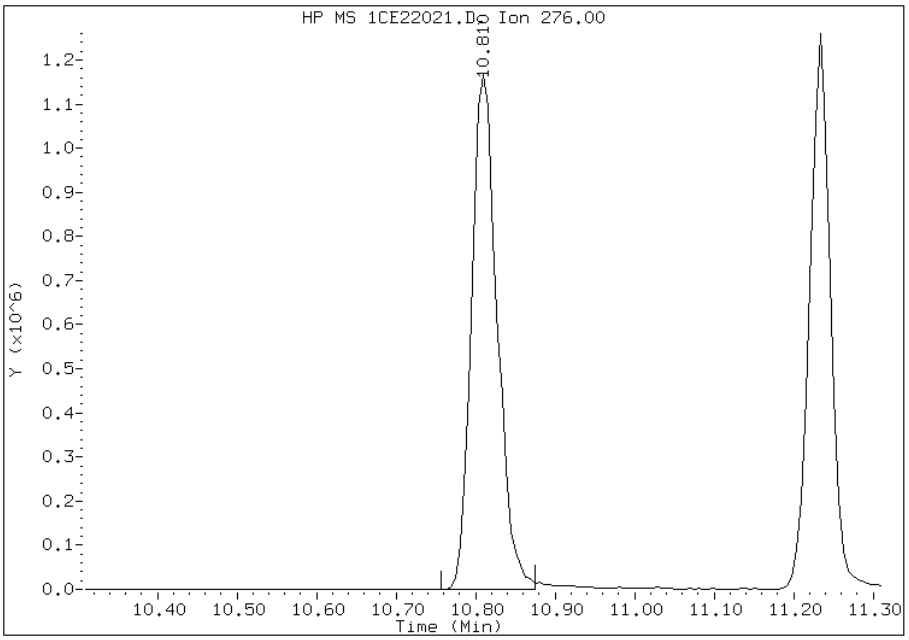
Processing Integration Results

RT: 10.81

Response: 2607256

Amount: 20

Conc: 20



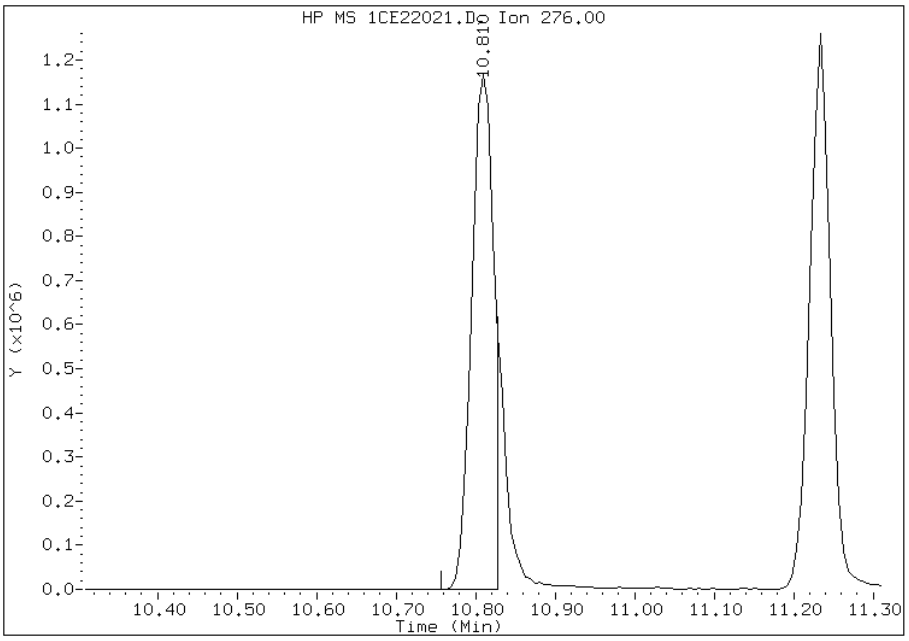
Manual Integration Results

RT: 10.81

Response: 2236055

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:17
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Lab Sample ID: CCVIS 660-138098/3 Calibration Date: 06/04/2013 10:50

Instrument ID: BSMC5973 Calib Start Date: 05/22/2013 16:16

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/22/2013 18:05

Lab File ID: 1CF04003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9715	0.9705	0.0000	17200	20000	-0.1	20.0
2-Methylnaphthalene	Ave	0.6261	0.6625	0.0000	21200	20000	5.8	20.0
1-Methylnaphthalene	Ave	0.6160	0.6096	0.0000	19800	20000	-1.0	20.0
Acenaphthylene	Ave	1.533	1.658	0.0000	21600	20000	8.2	20.0
Acenaphthene	Ave	0.9616	1.013	0.0000	21100	20000	5.4	20.0
Fluorene	Ave	1.227	1.369	0.0000	22300	20000	11.6	20.0
Phenanthrene	Ave	1.182	1.139	0.0000	19300	20000	-3.6	20.0
Anthracene	Ave	1.095	1.151	0.0000	21000	20000	5.1	20.0
Carbazole	None		0.999	0.0000	19700	20000	-1.7	20.0
Fluoranthene	Ave	1.208	1.300	0.0000	21500	20000	7.7	20.0
Pyrene	Ave	1.080	1.088	0.0000	20100	20000	0.7	20.0
Benzo[a]anthracene	Ave	1.103	1.110	0.0000	20100	20000	0.6	20.0
Chrysene	Ave	1.111	1.114	0.0000	20100	20000	0.3	20.0
Benzo[b]fluoranthene	Ave	0.9828	1.109	0.0000	22600	20000	12.8	20.0
Benzo[k]fluoranthene	Ave	1.098	1.110	0.0000	20200	20000	1.1	20.0
Benzo[a]pyrene	Lin2	0.9064	1.053	0.0000	21100	20000	5.3	20.0
Indeno[1,2,3-cd]pyrene	None		1.067	0.0000	20100	20000	0.5	20.0
Dibenz(a,h)anthracene	Ave	0.8538	0.9387	0.0000	22000	20000	9.9	20.0
Benzo[g,h,i]perylene	Ave	0.9293	0.9640	0.0000	20700	20000	3.7	20.0
o-Terphenyl	Ave	0.6231	0.6657	0.0000	21400	20000	6.8	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 04-JUN-2013 10:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	4.045	4.045	(1.000)	3174307	40.0000	
* 6 Acenaphthene-d10	164	5.133	5.133	(1.000)	2209321	40.0000	
* 10 Phenanthrene-d10	188	6.104	6.104	(1.000)	4430348	40.0000	(H)
$ 14 o-Terphenyl	230	6.351	6.351	(1.040)	1474592	20.0000	21.3667(H)
* 18 Chrysene-d12	240	8.068	8.068	(1.000)	5836553	40.0000	
* 23 Perylene-d12	264	9.409	9.409	(1.000)	5791367	40.0000	
2 Naphthalene	128	4.057	4.057	(1.003)	1540349	20.0000	17.1955
3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	1051406	20.0000	21.1607
4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	967473	20.0000	19.7907
5 Acenaphthylene	152	5.045	5.045	(0.983)	1831974	20.0000	21.6300
7 Acenaphthene	154	5.151	5.151	(1.003)	1119313	20.0000	21.0743
9 Fluorene	166	5.480	5.480	(1.068)	1512281	20.0000	22.3151
11 Phenanthrene	178	6.121	6.121	(1.003)	2524084	20.0000	19.2838(H)
12 Anthracene	178	6.157	6.157	(1.009)	2548864	20.0000	21.0193(H)
13 Carbazole	167	6.257	6.257	(1.025)	2213469	20.0000	19.6587
15 Fluoranthene	202	6.968	6.968	(1.142)	2880724	20.0000	21.5319(H)
16 Pyrene	202	7.145	7.145	(0.886)	3174373	20.0000	20.1413
17 Benzo(a)anthracene	228	8.062	8.062	(0.999)	3238158	20.0000	20.1202
19 Chrysene	228	8.092	8.092	(1.003)	3251977	20.0000	20.0692
20 Benzo(b)fluoranthene	252	9.004	9.004	(0.957)	3211227	20.0000	22.5680
21 Benzo(k)fluoranthene	252	9.027	9.027	(0.959)	3213559	20.0000	20.2207
22 Benzo(a)pyrene	252	9.345	9.345	(0.993)	3049476	20.0000	21.0565
24 Indeno(1,2,3-cd)pyrene	276	10.792	10.792	(1.147)	3088449	20.0000	20.0976(M)
25 Dibenzo(a,h)anthracene	278	10.815	10.815	(1.149)	2718124	20.0000	21.9893
26 Benzo(g,h,i)perylene	276	11.215	11.215	(1.192)	2791548	20.0000	20.7484

QC Flag Legend

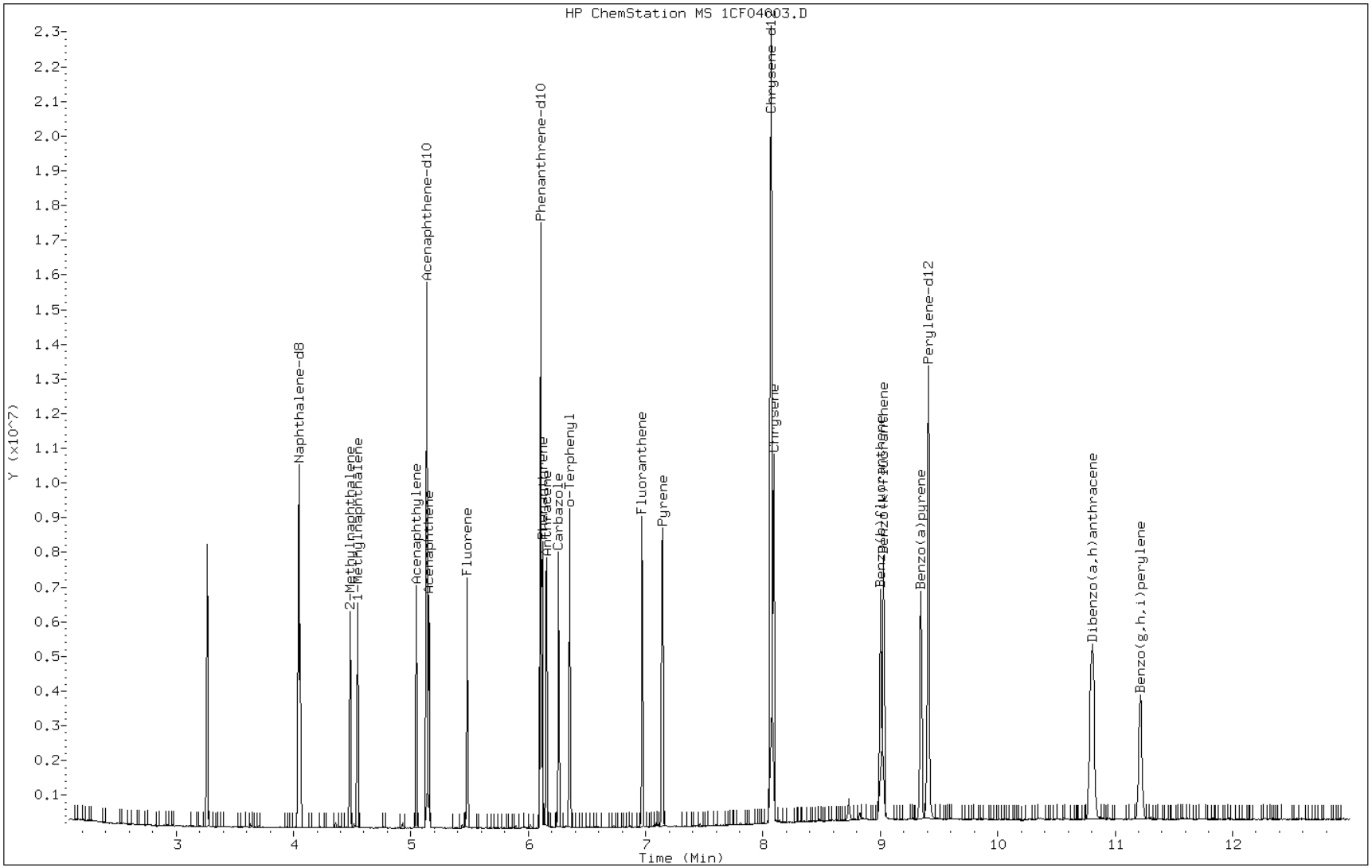
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CF04003.D

Date: 04-JUN-2013 10:50

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CF04003.D
Inj. Date and Time: 04-JUN-2013 10:50
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

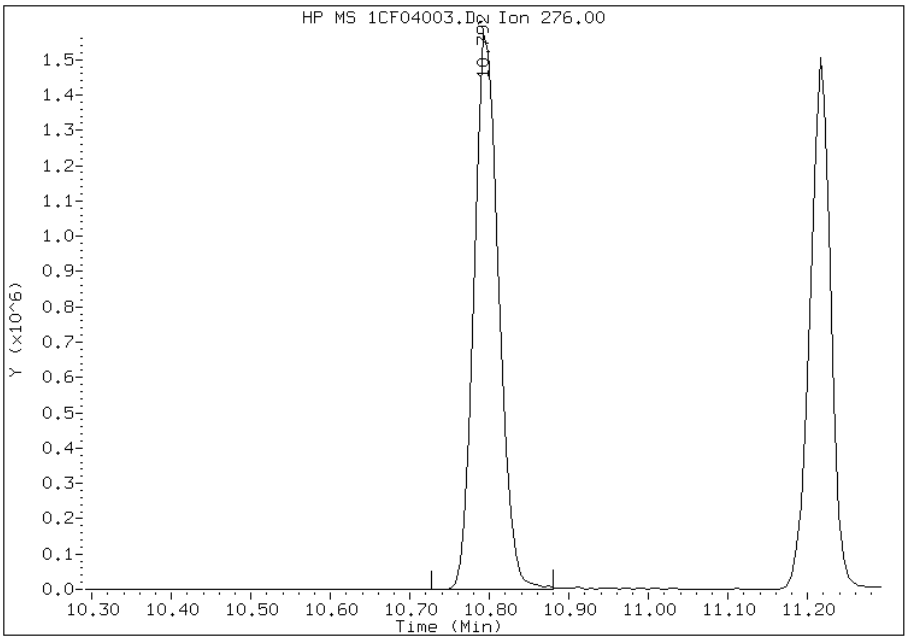
Processing Integration Results

RT: 10.79

Response: 3383362

Amount: 22

Conc: 22



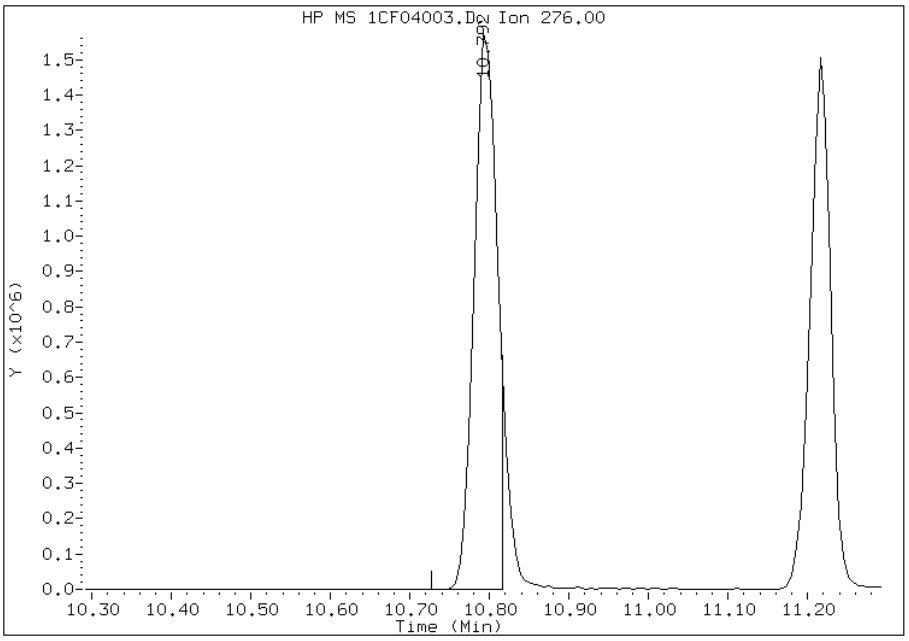
Manual Integration Results

RT: 10.79

Response: 3088449

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 11:09
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Lab Sample ID: CCVIS 660-138101/3 Calibration Date: 06/05/2013 11:24

Instrument ID: BSMC5973 Calib Start Date: 05/22/2013 16:16

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/22/2013 18:05

Lab File ID: 1CF05003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9715	0.9767	0.0000	17300	20000	0.5	20.0
2-Methylnaphthalene	Ave	0.6261	0.6457	0.0000	20600	20000	3.1	20.0
1-Methylnaphthalene	Ave	0.6160	0.5989	0.0000	19400	20000	-2.8	20.0
Acenaphthylene	Ave	1.533	1.620	0.0000	21100	20000	5.7	20.0
Acenaphthene	Ave	0.9616	0.9794	0.0000	20400	20000	1.8	20.0
Fluorene	Ave	1.227	1.344	0.0000	21900	20000	9.6	20.0
Phenanthrene	Ave	1.182	1.151	0.0000	19500	20000	-2.6	20.0
Anthracene	Ave	1.095	1.161	0.0000	21200	20000	6.0	20.0
Carbazole	None		1.003	0.0000	19700	20000	-1.3	20.0
Fluoranthene	Ave	1.208	1.329	0.0000	22000	20000	10.1	20.0
Pyrene	Ave	1.080	1.106	0.0000	20500	20000	2.4	20.0
Benzo[a]anthracene	Ave	1.103	1.120	0.0000	20300	20000	1.5	20.0
Chrysene	Ave	1.111	1.103	0.0000	19900	20000	-0.6	20.0
Benzo[b]fluoranthene	Ave	0.9828	1.083	0.0000	22000	20000	10.2	20.0
Benzo[k]fluoranthene	Ave	1.098	1.110	0.0000	20200	20000	1.1	20.0
Benzo[a]pyrene	Lin2	0.9064	1.058	0.0000	21200	20000	5.8	20.0
Indeno[1,2,3-cd]pyrene	None		1.045	0.0000	19700	20000	-1.5	20.0
Dibenz(a,h)anthracene	Ave	0.8538	0.9193	0.0000	21500	20000	7.7	20.0
Benzo[g,h,i]perylene	Ave	0.9293	0.9220	0.0000	19800	20000	-0.8	20.0
o-Terphenyl	Ave	0.6231	0.6728	0.0000	21600	20000	8.0	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 05-JUN-2013 11:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	4.039	4.039	(1.000)	3117690	40.0000	(H)
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	2187855	40.0000	
* 10 Phenanthrene-d10	188	6.092	6.092	(1.000)	4236955	40.0000	(H)
$ 14 o-Terphenyl	230	6.345	6.345	(1.042)	1425312	20.0000	21.5953(H)
* 18 Chrysene-d12	240	8.056	8.056	(1.000)	5431412	40.0000	
* 23 Perylene-d12	264	9.392	9.392	(1.000)	5530236	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	1522459	20.0000	17.3044(H)
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	1006483	20.0000	20.6245(H)
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	933510	20.0000	19.4428(H)
5 Acenaphthylene	152	5.039	5.039	(0.983)	1772676	20.0000	21.1352
7 Acenaphthene	154	5.145	5.145	(1.003)	1071352	20.0000	20.3692
9 Fluorene	166	5.468	5.468	(1.067)	1470467	20.0000	21.9109
11 Phenanthrene	178	6.110	6.110	(1.003)	2437616	20.0000	19.4732(H)
12 Anthracene	178	6.145	6.145	(1.009)	2459705	20.0000	21.2099(H)
13 Carbazole	167	6.251	6.251	(1.026)	2125688	20.0000	19.7403(H)
15 Fluoranthene	202	6.962	6.962	(1.143)	2816320	20.0000	22.0113(H)
16 Pyrene	202	7.133	7.133	(0.885)	3003557	20.0000	20.4790
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	3041302	20.0000	20.3067
19 Chrysene	228	8.074	8.074	(1.002)	2996246	20.0000	19.8703
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	2993341	20.0000	22.0300
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.959)	3068148	20.0000	20.2173
22 Benzo(a)pyrene	252	9.327	9.327	(0.993)	2926217	20.0000	21.1590
24 Indeno(1,2,3-cd)pyrene	276	10.768	10.768	(1.147)	2889439	20.0000	19.6936(M)
25 Dibenzo(a,h)anthracene	278	10.786	10.786	(1.148)	2542022	20.0000	21.5357
26 Benzo(g,h,i)perylene	276	11.186	11.186	(1.191)	2549491	20.0000	19.8441

QC Flag Legend

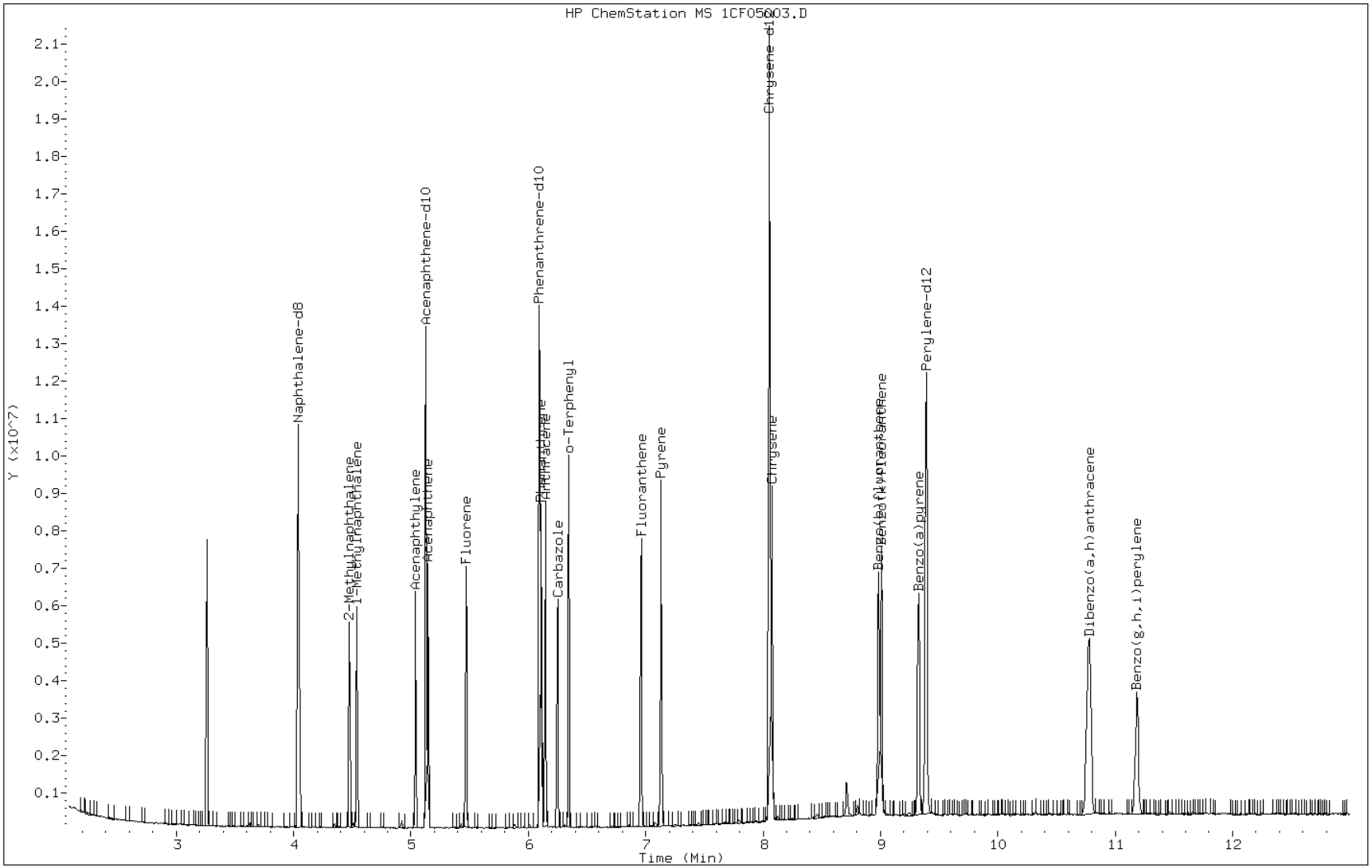
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CF05003.D

Date: 05-JUN-2013 11:24

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CF05003.D
Inj. Date and Time: 05-JUN-2013 11:24
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

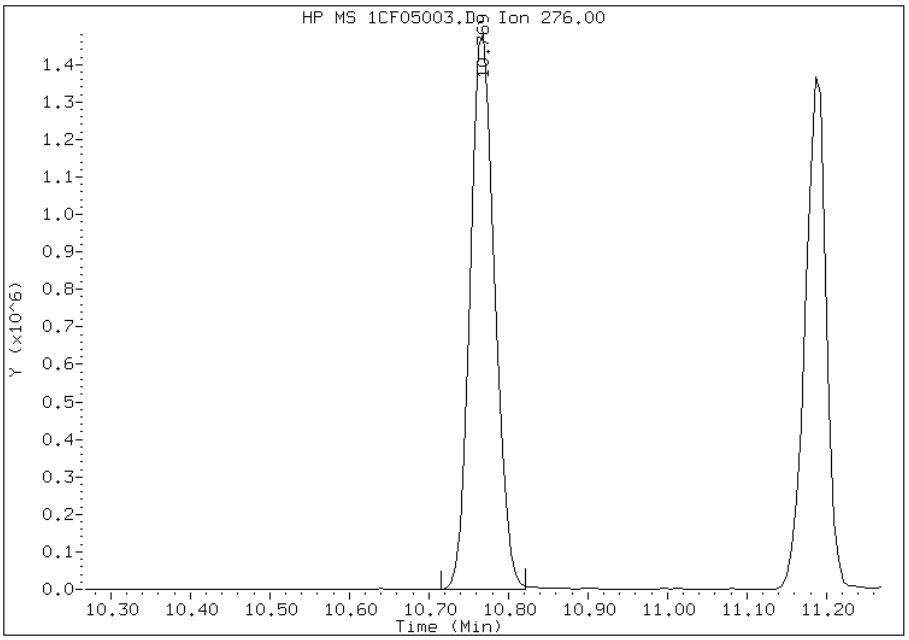
Processing Integration Results

RT: 10.77

Response: 3160698

Amount: 22

Conc: 22



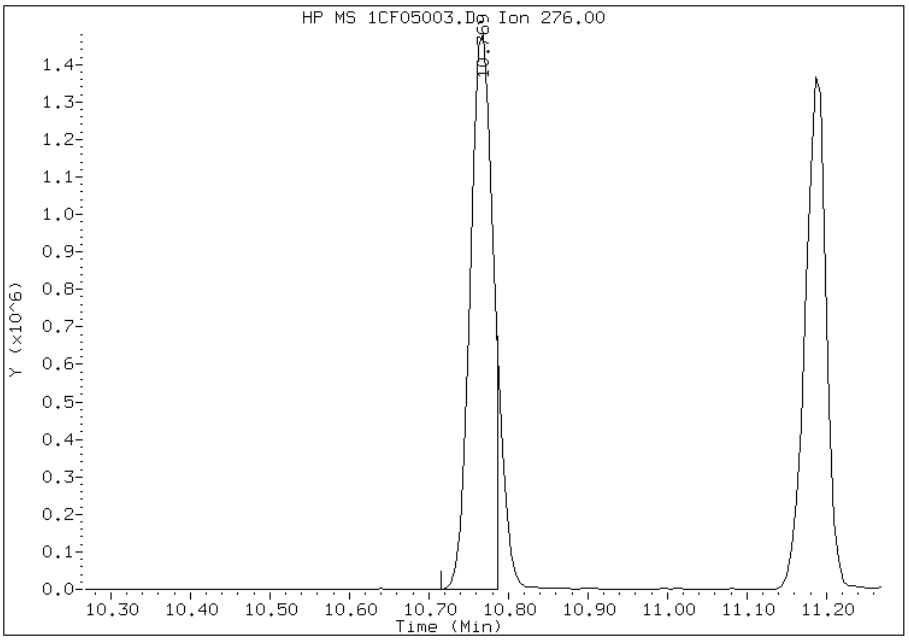
Manual Integration Results

RT: 10.77

Response: 2889439

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:40
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

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

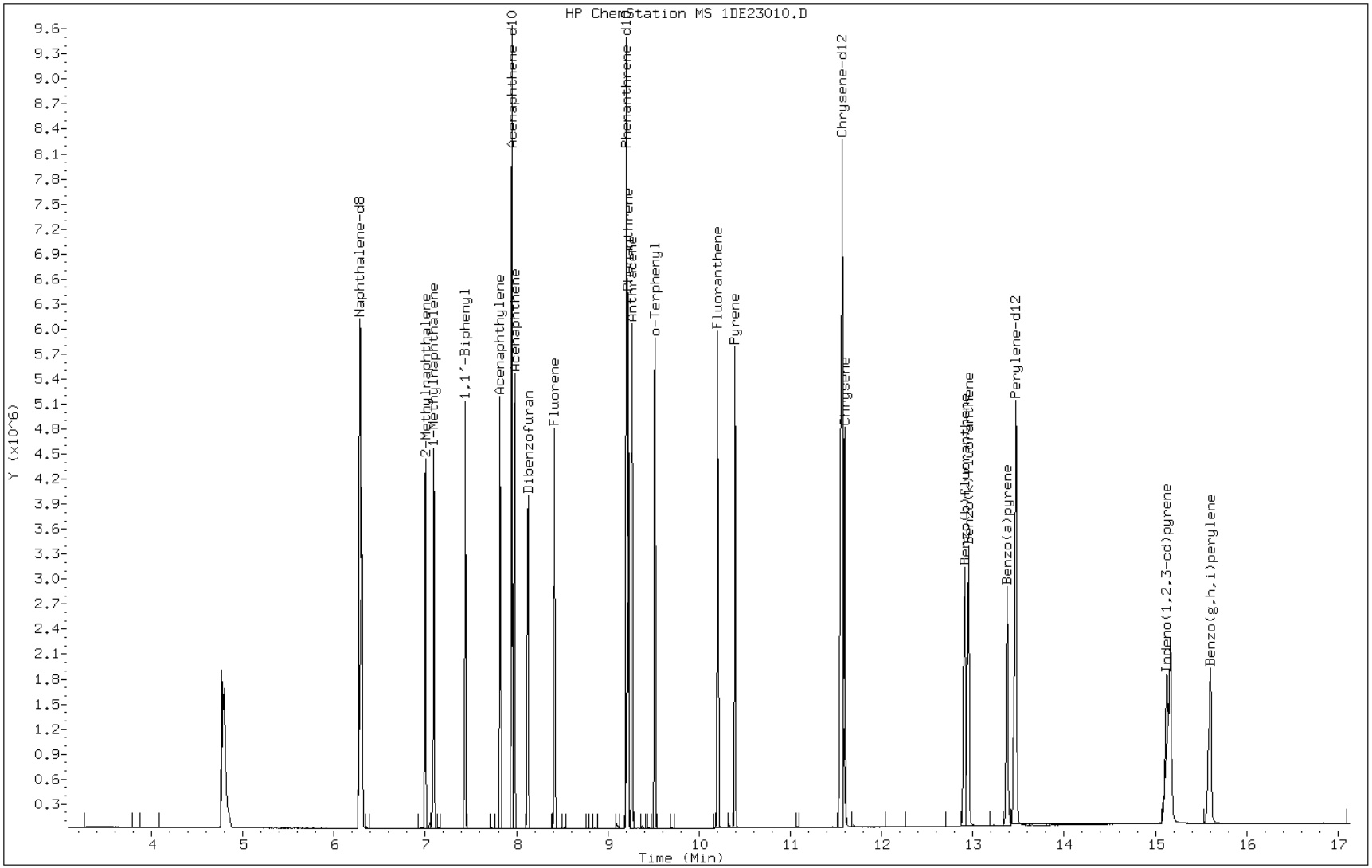
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
17 Pyrene	202	10.394	10.402	(0.898)	1958244	22.3533	22
18 Benzo(a)anthracene	228	11.551	11.559	(0.998)	1835809	20.6731	21
20 Chrysene	228	11.598	11.606	(1.003)	1720590	21.5169	22
21 Benzo(b)fluoranthene	252	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.: 680-90723-2

SDG No.: 68090723-2

Lab Sample ID: CCVIS 660-138163/4 Calibration Date: 06/06/2013 12:56

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: 1DF06004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	0.998	0.0000	20200	20000	1.2	20.0
2-Methylnaphthalene	Ave	0.6281	0.6625	0.0000	21100	20000	5.5	20.0
1-Methylnaphthalene	Ave	0.6466	0.6503	0.0000	20100	20000	0.6	20.0
Acenaphthylene	Ave	1.658	1.878	0.0000	22700	20000	13.3	20.0
Acenaphthene	Ave	1.052	1.088	0.0000	20700	20000	3.4	20.0
Dibenzofuran	Ave	1.451	1.592		21900	20000	9.7	
Fluorene	Ave	1.190	1.338	0.0000	22500	20000	12.4	20.0
Phenanthrene	Ave	1.083	1.118	0.0000	20600	20000	3.2	20.0
Anthracene	Ave	1.051	1.165	0.0000	22200	20000	10.9	20.0
Fluoranthene	Ave	1.108	1.234	0.0000	22300	20000	11.4	20.0
Pyrene	Ave	1.171	1.192	0.0000	20400	20000	1.8	20.0
Benzo[a]anthracene	Ave	1.187	1.179	0.0000	19900	20000	-0.7	20.0
Chrysene	Ave	1.069	1.054	0.0000	19700	20000	-1.4	20.0
Benzo[b]fluoranthene	Ave	1.002	1.086	0.0000	21700	20000	8.4	20.0
Benzo[k]fluoranthene	Ave	1.049	1.124	0.0000	21400	20000	7.1	20.0
Benzo[a]pyrene	Lin2	0.8952	1.046	0.0000	21200	20000	5.9	20.0
Indeno[1,2,3-cd]pyrene	None		1.043	0.0000	20200	20000	1.1	20.0
Dibenz(a,h)anthracene	Lin2	0.8892	1.031	0.0000	21600	20000	8.2	20.0
Benzo[g,h,i]perylene	Ave	0.9083	0.9883	0.0000	21800	20000	8.8	20.0
o-Terphenyl	Ave	0.5860	0.6538	0.0000	22300	20000	11.6	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060613.b\1DF06004.D
Lab Smp Id: CCVIS-1559459
Inj Date : 06-JUN-2013 12:56
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060613.b\dFASTPAHi.m
Meth Date : 06-Jun-2013 13:17 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.274	6.274	(1.000)	4994332	40.0000	
* 7 Acenaphthene-d10	164	7.943	7.943	(1.000)	2767803	40.0000	
* 11 Phenanthrene-d10	188	9.200	9.200	(1.000)	4761090	40.0000	
$ 15 o-Terphenyl	230	9.506	9.506	(1.033)	1556505	20.0000	22
* 19 Chrysene-d12	240	11.568	11.568	(1.000)	5009241	40.0000	
* 24 Perylene-d12	264	13.478	13.478	(1.000)	5178715	40.0000	
2 Naphthalene	128	6.292	6.292	(1.003)	2492844	20.0000	20
3 2-Methylnaphthalene	142	6.991	6.991	(1.114)	1654430	20.0000	21
4 1-Methylnaphthalene	142	7.085	7.085	(1.129)	1623885	20.0000	20
5 1,1'-Biphenyl	154	7.426	7.426	(0.935)	2042414	20.0000	22
6 Acenaphthylene	152	7.814	7.814	(0.984)	2599502	20.0000	23
8 Acenaphthene	154	7.967	7.967	(1.003)	1505804	20.0000	21
9 Dibenzofuran	168	8.113	8.113	(1.021)	2202684	20.0000	22
10 Fluorene	166	8.407	8.407	(1.058)	1851612	20.0000	22
12 Phenanthrene	178	9.218	9.218	(1.002)	2662467	20.0000	21
13 Anthracene	178	9.259	9.259	(1.006)	2774487	20.0000	22
16 Fluoranthene	202	10.199	10.199	(1.109)	2938115	20.0000	22
17 Pyrene	202	10.387	10.387	(0.898)	2985719	20.0000	20
18 Benzo(a)anthracene	228	11.545	11.545	(0.998)	2953306	20.0000	20
20 Chrysene	228	11.598	11.598	(1.003)	2639557	20.0000	20
21 Benzo(b)fluoranthene	252	12.914	12.914	(0.958)	2811850	20.0000	22
22 Benzo(k)fluoranthene	252	12.955	12.955	(0.961)	2911355	20.0000	21
23 Benzo(a)pyrene	252	13.378	13.378	(0.993)	2708310	20.0000	21
25 Indeno(1,2,3-cd)pyrene	276	15.135	15.135	(1.123)	2701330	20.0000	20
26 Dibenzo(a,h)anthracene	278	15.170	15.170	(1.126)	2669468	20.0000	22
27 Benzo(g,h,i)perylene	276	15.616	15.616	(1.159)	2559120	20.0000	22

Data File: 1DF06004.D

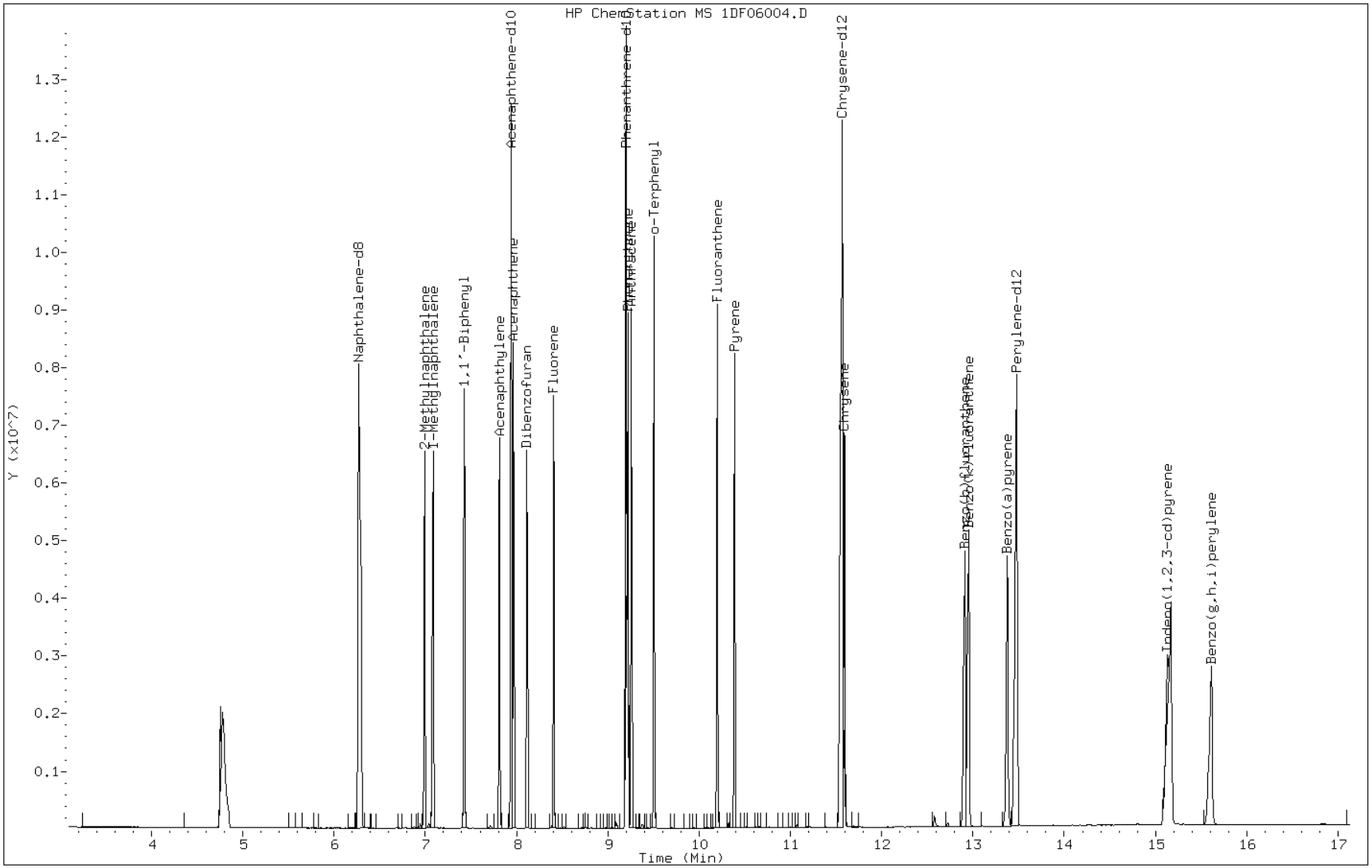
Date: 06-JUN-2013 12:56

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1559459

Operator: SCC



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Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-MAY-2013 10:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\c-dftpp198.m
Meth Date : 02-May-2013 11:12 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.645	7.669	-0.024	198	167424			50.00- 0.00	100.00
7.645	7.669	-0.024	51	44984			10.00- 80.00	26.87
7.645	7.669	-0.024	68	1129			0.00- 2.00	1.61
7.645	7.669	-0.024	69	70064			0.00- 0.00	41.85
7.645	7.669	-0.024	70	616			0.00- 2.00	0.88
7.645	7.669	-0.024	127	82884			10.00- 80.00	49.51
7.645	7.669	-0.024	197	472			0.00- 2.00	0.28
7.645	7.669	-0.024	442	146592			50.00- 0.00	87.56
7.645	7.669	-0.024	199	11155			5.00- 9.00	6.66
7.645	7.669	-0.024	275	42468			10.00- 60.00	25.37
7.645	7.669	-0.024	365	4440			1.00- 0.00	2.65
7.645	7.669	-0.024	441	23620			0.01- 99.99	89.69
7.645	7.669	-0.024	443	26335			15.00- 24.00	17.96

Data File: 1CE22002.D

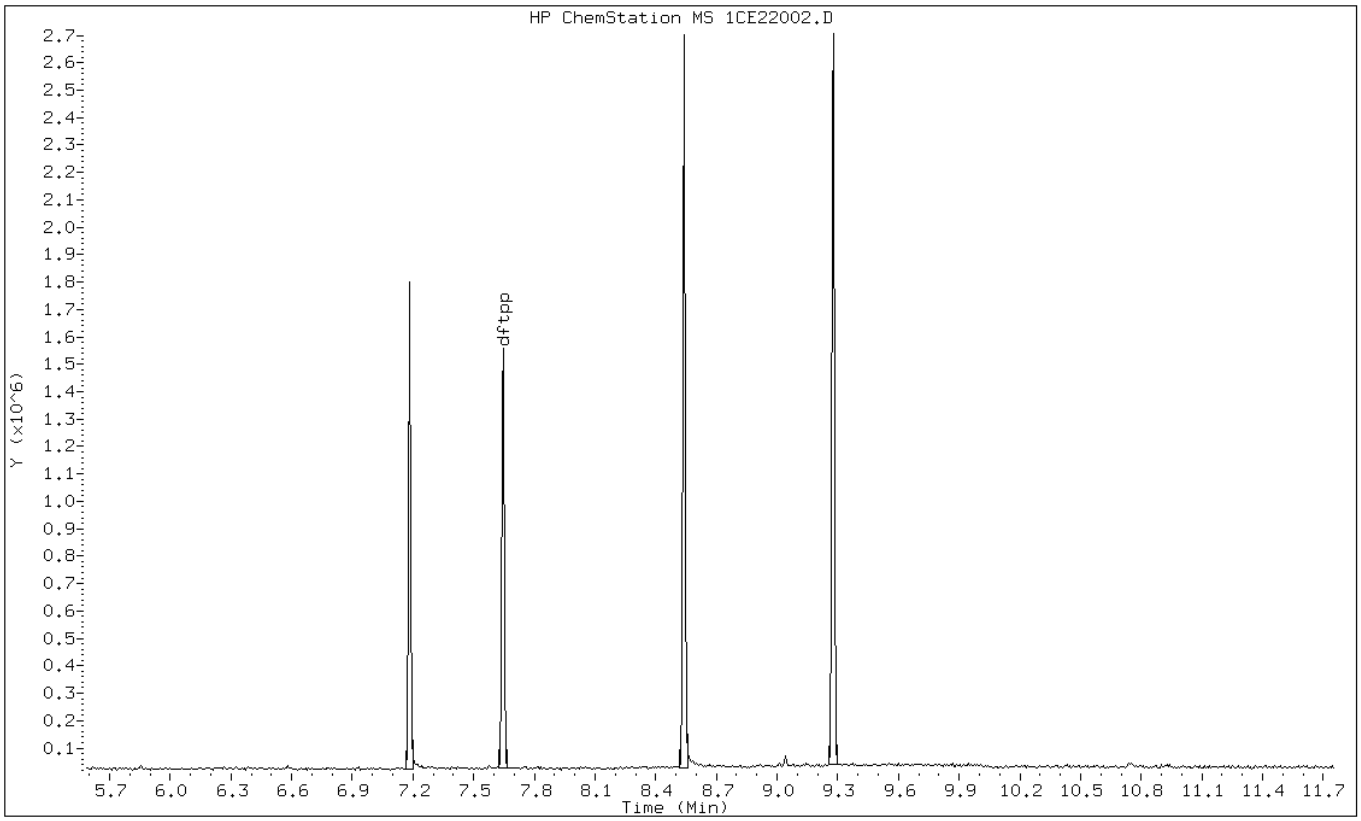
Date: 22-MAY-2013 10:24

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



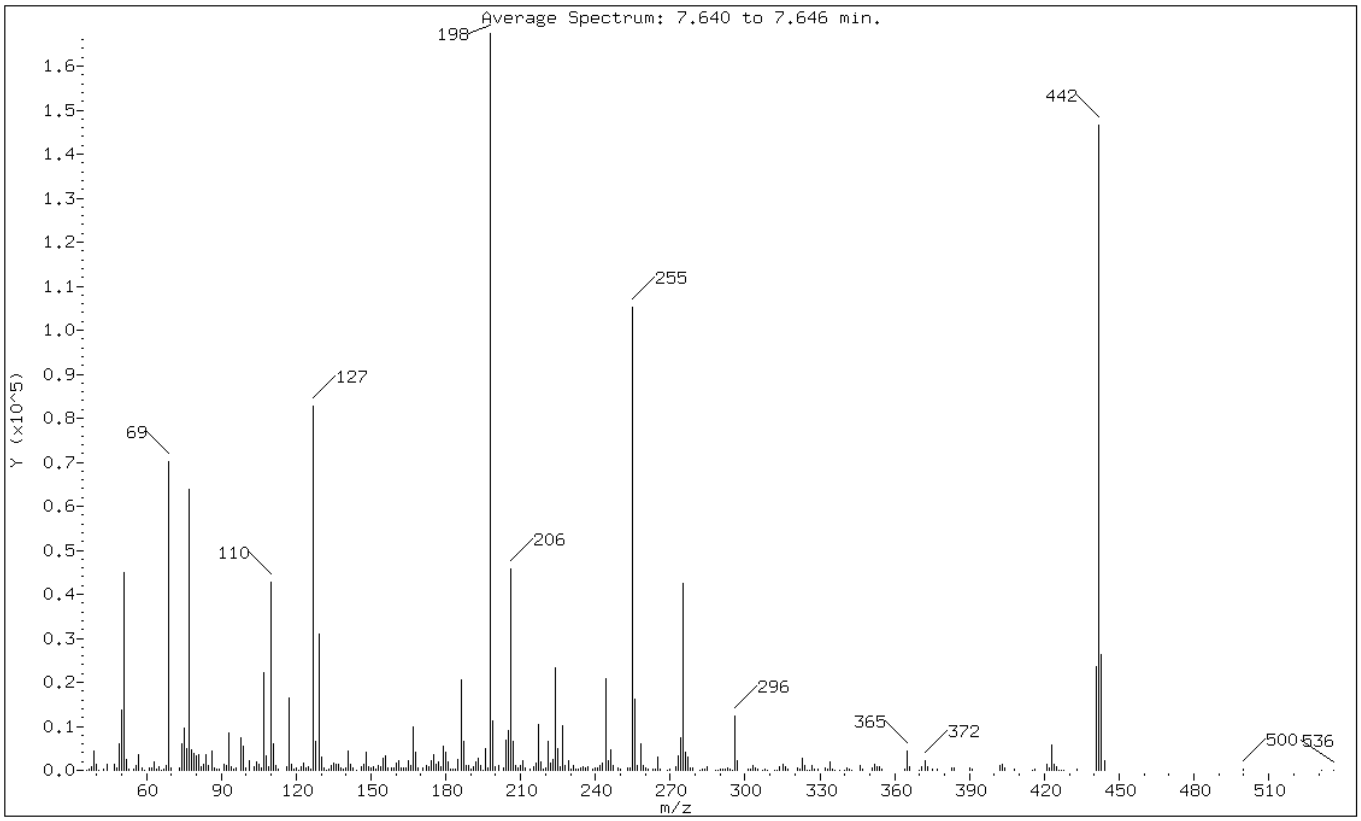
Data File: 1CE22002.D

Date: 22-MAY-2013 10:24

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	26.87
68	Less than 2.00% of mass 69	0.67 (1.61)
69	Mass 69 relative abundance	41.85
70	Less than 2.00% of mass 69	0.37 (0.88)
127	10.00 - 80.00% of mass 198	49.51
197	Less than 2.00% of mass 198	0.28
442	Greater than 50.00% of mass 198	87.56
199	5.00 - 9.00% of mass 198	6.66
275	10.00 - 60.00% of mass 198	25.37
365	Greater than 1.00% of mass 198	2.65
441	Present, but less than mass 443	14.11
443	15.00 - 24.00% of mass 442	15.73 (17.96)

Data File: 1CE22002.D

Date: 22-MAY-2013 10:24

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22002.D
Spectrum: Average Spectrum: 7.640 to 7.646 min.
Location of Maximum: 198.00
Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	75	126.00	393	207.00	6605	301.00	380
37.00	396	127.00	82880	208.00	1162	302.00	376
38.00	719	128.00	6577	209.00	669	303.00	1097
39.00	4378	129.00	30872	210.00	1181	304.00	637
40.00	1473	130.00	2981	211.00	2206	305.00	342
41.00	114	131.00	437	212.00	530	307.00	79
43.00	174	132.00	132	214.00	245	308.00	199
44.00	1252	133.00	325	215.00	710	309.00	123
47.00	1437	134.00	1203	216.00	1569	312.00	136
48.00	452	135.00	1681	217.00	10494	313.00	85
49.00	6079	136.00	1336	218.00	1851	314.00	777
50.00	13820	137.00	1477	219.00	226	315.00	1253
51.00	44984	138.00	461	220.00	657	316.00	780
52.00	2340	139.00	168	221.00	6686	317.00	370
53.00	192	140.00	413	222.00	1781	321.00	516
55.00	403	141.00	4386	223.00	2470	322.00	257
56.00	1043	142.00	1297	224.00	23312	323.00	2758
57.00	3552	143.00	665	225.00	4963	324.00	1025
58.00	422	144.00	85	226.00	702	325.00	85
59.00	131	146.00	705	227.00	10024	326.00	125
61.00	561	147.00	1240	228.00	1137	327.00	1069
62.00	681	148.00	4136	229.00	2177	328.00	289
63.00	1840	149.00	844	230.00	219	329.00	227
64.00	304	150.00	489	231.00	1142	332.00	630
65.00	836	151.00	750	232.00	188	333.00	403
66.00	106	152.00	217	233.00	381	334.00	1854
67.00	213	153.00	1121	234.00	484	335.00	183
68.00	1129	154.00	817	235.00	929	336.00	134
69.00	70064	155.00	2696	236.00	618	338.00	114
70.00	616	156.00	3398	237.00	862	340.00	101
73.00	676	157.00	466	239.00	292	341.00	440
74.00	5926	158.00	586	240.00	524	342.00	223
75.00	9677	159.00	492	241.00	591	343.00	116
76.00	4823	160.00	1675	242.00	1095	346.00	1228
77.00	63808	161.00	2069	243.00	1560	347.00	386
78.00	4538	162.00	598	244.00	20856	351.00	453
79.00	3939	163.00	451	245.00	2099	352.00	1295
80.00	3344	164.00	474	246.00	4563	353.00	878
81.00	3657	165.00	2092	247.00	1035	354.00	778
82.00	832	166.00	1212	249.00	443	355.00	278

83.00	1382	167.00	9811	250.00	265	364.00	181
84.00	3471	168.00	4152	253.00	480	365.00	4440
85.00	1143	169.00	642	254.00	420	366.00	867
86.00	4504	171.00	542	255.00	105248	370.00	122
87.00	435	172.00	1124	256.00	16038	371.00	896
88.00	304	173.00	931	257.00	1209	372.00	2247
89.00	158	174.00	2310	258.00	6097	373.00	712
91.00	1340	175.00	3588	259.00	1063	375.00	159
92.00	1173	176.00	1243	260.00	641	377.00	196
93.00	8603	177.00	2037	261.00	219	383.00	625
94.00	795	178.00	771	263.00	285	384.00	629
95.00	168	179.00	5366	264.00	155	390.00	598
96.00	472	180.00	4120	265.00	2894	391.00	308
98.00	7464	181.00	1914	266.00	303	402.00	1094
99.00	5409	182.00	311	269.00	114	403.00	1503
100.00	430	183.00	282	270.00	179	404.00	678
101.00	2086	184.00	357	272.00	721	408.00	173
103.00	932	185.00	2430	273.00	3287	415.00	107
104.00	1995	186.00	20656	274.00	7399	416.00	325
105.00	1494	187.00	6442	275.00	42464	421.00	1302
106.00	657	188.00	1022	276.00	4079	422.00	469
107.00	22184	189.00	1106	277.00	3072	423.00	5654
108.00	3320	190.00	211	278.00	475	424.00	1440
109.00	718	191.00	821	279.00	478	425.00	768
110.00	42776	192.00	1902	282.00	81	426.00	103
111.00	6070	193.00	2686	283.00	330	427.00	133
112.00	1110	194.00	981	284.00	301	428.00	129
113.00	176	195.00	124	285.00	751	433.00	276
116.00	911	196.00	4948	288.00	79	441.00	23616
117.00	16448	197.00	472	289.00	98	442.00	146560
118.00	1346	198.00	167424	290.00	260	443.00	26328
119.00	365	199.00	11155	291.00	144	444.00	2240
120.00	505	200.00	725	292.00	185	500.00	141
121.00	127	201.00	1208	293.00	539	531.00	80
122.00	896	203.00	671	294.00	169	536.00	109
123.00	1534	204.00	6791	295.00	85		
124.00	533	205.00	8931	296.00	12373		
125.00	886	206.00	45888	297.00	2115		

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Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 04-JUN-2013 10:20
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\c-dftpp198.m
Meth Date : 02-May-2013 11:12 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

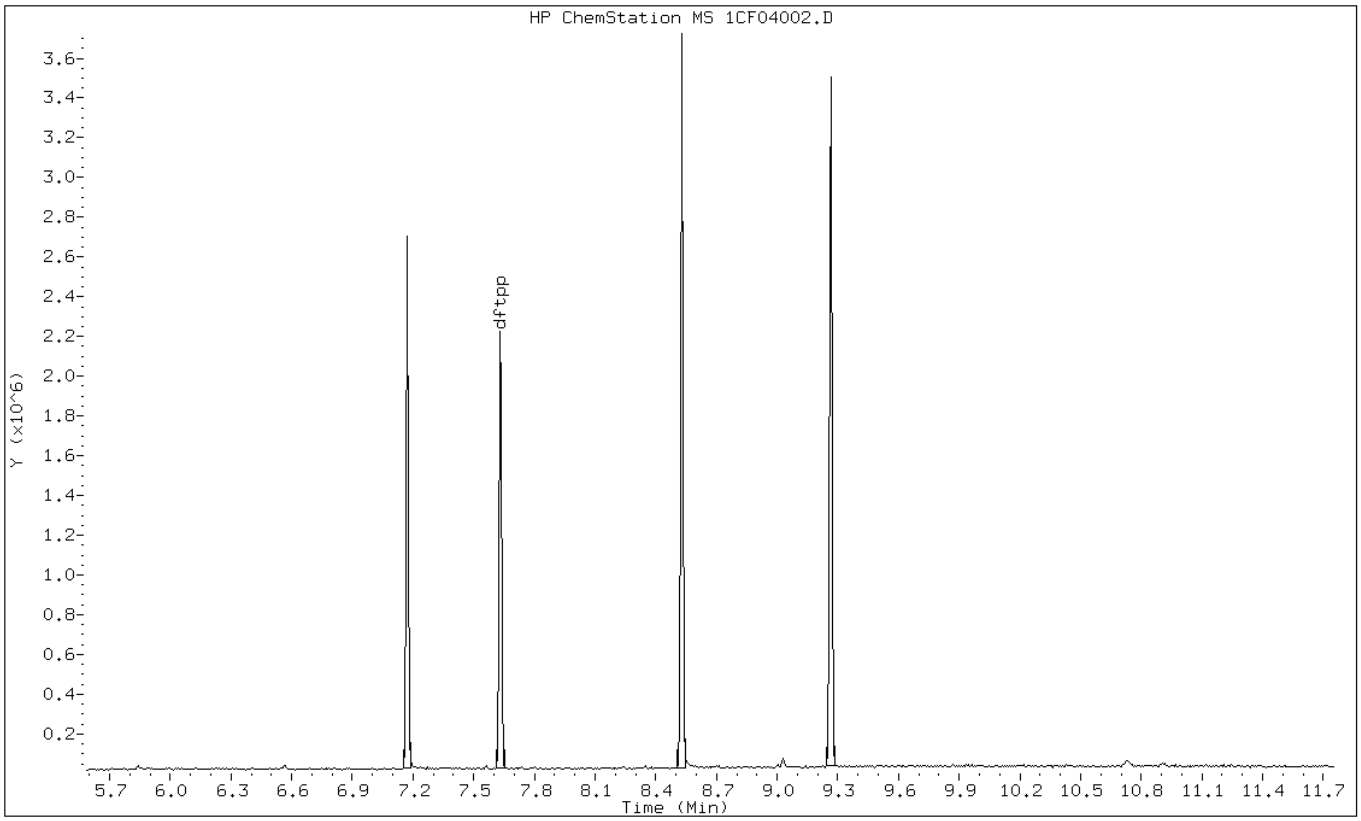
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.627	7.669	-0.042	198	256000			50.00- 0.00	100.00
7.627	7.669	-0.042	51	78672			10.00- 80.00	30.73
7.627	7.669	-0.042	68	1717			0.00- 2.00	1.33
7.627	7.669	-0.042	69	128912			0.00- 0.00	50.36
7.627	7.669	-0.042	70	625			0.00- 2.00	0.48
7.627	7.669	-0.042	127	127400			10.00- 80.00	49.77
7.627	7.669	-0.042	197	1961			0.00- 2.00	0.77
7.627	7.669	-0.042	442	183232			50.00- 0.00	71.58
7.627	7.669	-0.042	199	16198			5.00- 9.00	6.33
7.627	7.669	-0.042	275	54968			10.00- 60.00	21.47
7.627	7.669	-0.042	365	9717			1.00- 0.00	3.80
7.627	7.669	-0.042	441	27088			0.01- 99.99	77.61
7.627	7.669	-0.042	443	34904			15.00- 24.00	19.05

Data File: 1CF04002.D

Date: 04-JUN-2013 10:20

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 | Operator: SCC



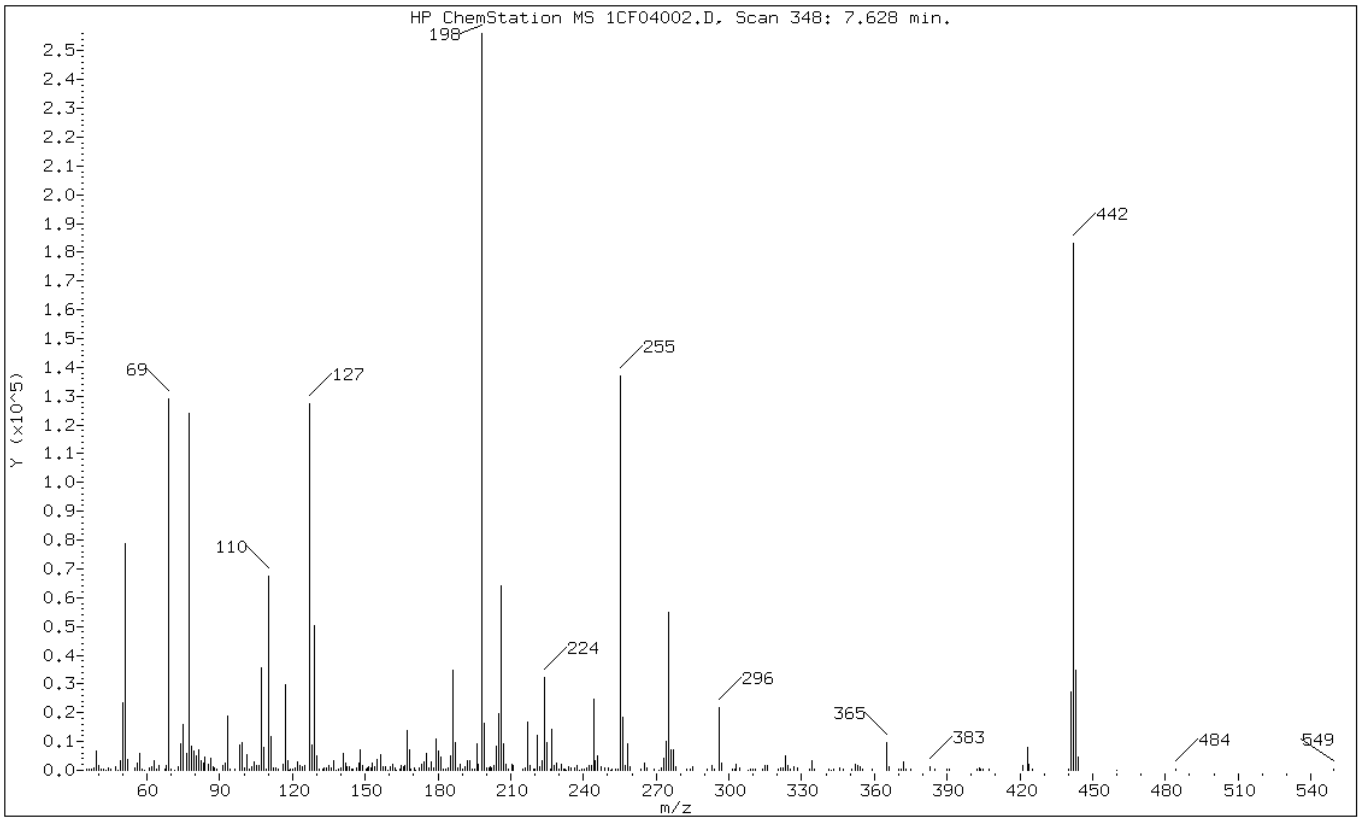
Data File: 1CF04002.D

Date: 04-JUN-2013 10:20

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	30.73
68	Less than 2.00% of mass 69	0.67 (1.33)
69	Mass 69 relative abundance	50.36
70	Less than 2.00% of mass 69	0.24 (0.48)
127	10.00 - 80.00% of mass 198	49.77
197	Less than 2.00% of mass 198	0.77
442	Greater than 50.00% of mass 198	71.58
199	5.00 - 9.00% of mass 198	6.33
275	10.00 - 60.00% of mass 198	21.47
365	Greater than 1.00% of mass 198	3.80
441	Present, but less than mass 443	10.58
443	15.00 - 24.00% of mass 442	13.63 (19.05)

Data File: 1CF04002.D

Date: 04-JUN-2013 10:20

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04002.D
Spectrum: HP ChemStation MS 1CF04002.D, Scan 348: 7.628 min.
Location of Maximum: 198.10
Number of points: 298

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	361	119.20	266	192.10	3268	275.10	54968
36.30	420	120.20	510	193.00	3551	276.10	7185
37.20	539	121.00	767	194.10	435	277.00	7050
38.10	677	122.20	3042	195.10	571	278.10	1108
39.10	6590	123.10	1788	196.10	9347	282.80	542
40.00	1620	124.00	1071	196.80	1961	284.10	562
41.10	364	125.10	1819	198.10	256000	285.10	1280
42.00	374	127.10	127400	199.00	16198	290.80	226
43.10	200	128.10	8681	200.00	808	293.20	1532
44.00	999	129.10	50336	200.90	1004	294.00	266
45.20	342	130.00	4850	201.50	1343	296.10	21696
47.00	1240	131.00	370	202.10	957	297.10	2454
48.10	201	132.50	366	203.10	1820	301.20	517
49.00	3250	133.10	1002	204.20	8332	302.20	286
50.10	23496	134.10	879	205.10	19736	303.00	2107
51.20	78672	135.20	1835	206.10	64192	304.20	766
52.20	3689	136.10	956	207.10	9273	308.10	185
55.10	675	137.20	3165	208.00	2179	308.80	251
56.10	2394	138.20	207	209.20	528	310.10	439
57.10	5931	138.90	349	210.30	1886	311.10	545
58.00	617	140.10	683	211.10	1777	314.10	502
59.00	181	141.10	5709	215.00	455	315.00	1767
61.00	642	141.90	2333	216.10	758	316.00	1519
62.10	1441	142.60	1084	217.10	16816	320.20	389
63.10	3378	143.20	1110	218.10	1652	321.20	686
64.00	488	144.20	295	219.30	263	322.10	668
65.10	1646	145.10	375	219.90	331	323.10	4956
67.20	605	146.20	754	221.00	11961	324.10	1696
68.10	1717	147.20	2445	222.10	1055	325.20	454
69.10	128912	148.10	7272	223.10	3492	326.90	1242
70.10	625	149.00	1756	224.10	32128	328.20	640
71.20	162	150.40	443	225.10	9624	333.00	519
73.10	1100	151.10	999	226.20	624	334.10	3207
74.10	9010	151.50	1204	227.10	14278	335.20	485
75.10	15759	152.20	972	228.00	1639	341.10	383
76.10	5717	152.90	2374	229.10	2389	342.10	177
77.20	124048	154.10	1158	229.70	593	343.10	344
78.10	8259	155.10	3879	230.10	536	345.90	858
79.10	6776	156.10	5256	231.00	1903	347.10	388
80.10	4923	157.20	1182	231.90	278	350.80	264

81.10	7056	158.10	1340	232.40	361	352.10	1924
82.10	3184	159.10	198	233.00	152	353.20	1803
83.10	2646	160.10	1386	234.10	1442	354.10	1458
84.00	4629	161.20	2007	235.10	638	355.10	518
85.20	1976	162.10	746	236.10	1024	358.90	513
86.10	4093	163.00	158	237.20	1552	365.00	9717
87.10	1332	164.10	222	238.10	172	365.90	1091
88.00	811	165.00	1614	239.10	330	370.10	418
88.90	379	165.90	1249	240.10	309	371.20	364
91.20	1835	166.30	1549	241.10	764	372.10	2730
92.10	2315	167.10	13720	242.10	1593	373.20	563
93.10	18896	168.10	7099	243.10	1683	375.20	240
94.10	455	168.90	376	244.10	24888	382.90	1139
96.30	347	170.10	745	245.00	3423	384.70	237
98.10	8775	171.00	178	246.00	5098	389.70	304
99.10	9529	172.10	818	247.10	1461	391.00	445
100.10	1024	173.00	2072	249.00	815	402.10	443
101.10	5626	174.00	2967	250.20	800	403.20	731
102.00	296	175.10	5770	251.30	163	404.00	276
103.10	1404	176.20	1025	252.00	349	405.00	260
104.00	2862	177.10	2729	253.10	319	407.20	309
105.20	1779	178.20	724	254.10	468	421.00	1780
106.10	1484	179.00	10817	255.10	137088	423.10	7799
107.10	35728	180.20	6560	256.10	18424	423.90	2081
108.10	7786	181.20	4747	257.10	1601	425.10	260
109.00	584	182.10	566	258.00	9013	440.20	509
110.10	67632	183.00	355	259.00	1248	441.10	27088
111.10	11919	184.10	881	263.80	419	442.10	183232
111.90	878	185.20	5157	265.10	2521	443.10	34904
113.10	923	186.10	34784	266.10	715	444.10	4705
114.20	213	187.10	9755	269.10	228	460.00	161
116.10	2048	188.20	656	271.10	193	484.40	253
117.10	29592	189.10	1904	271.90	980	549.40	331
118.00	3396	190.00	388	273.00	4327		
118.80	168	191.00	1296	274.10	10261		

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Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 05-JUN-2013 11:08
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\c-dftpp198.m
Meth Date : 02-May-2013 11:12 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

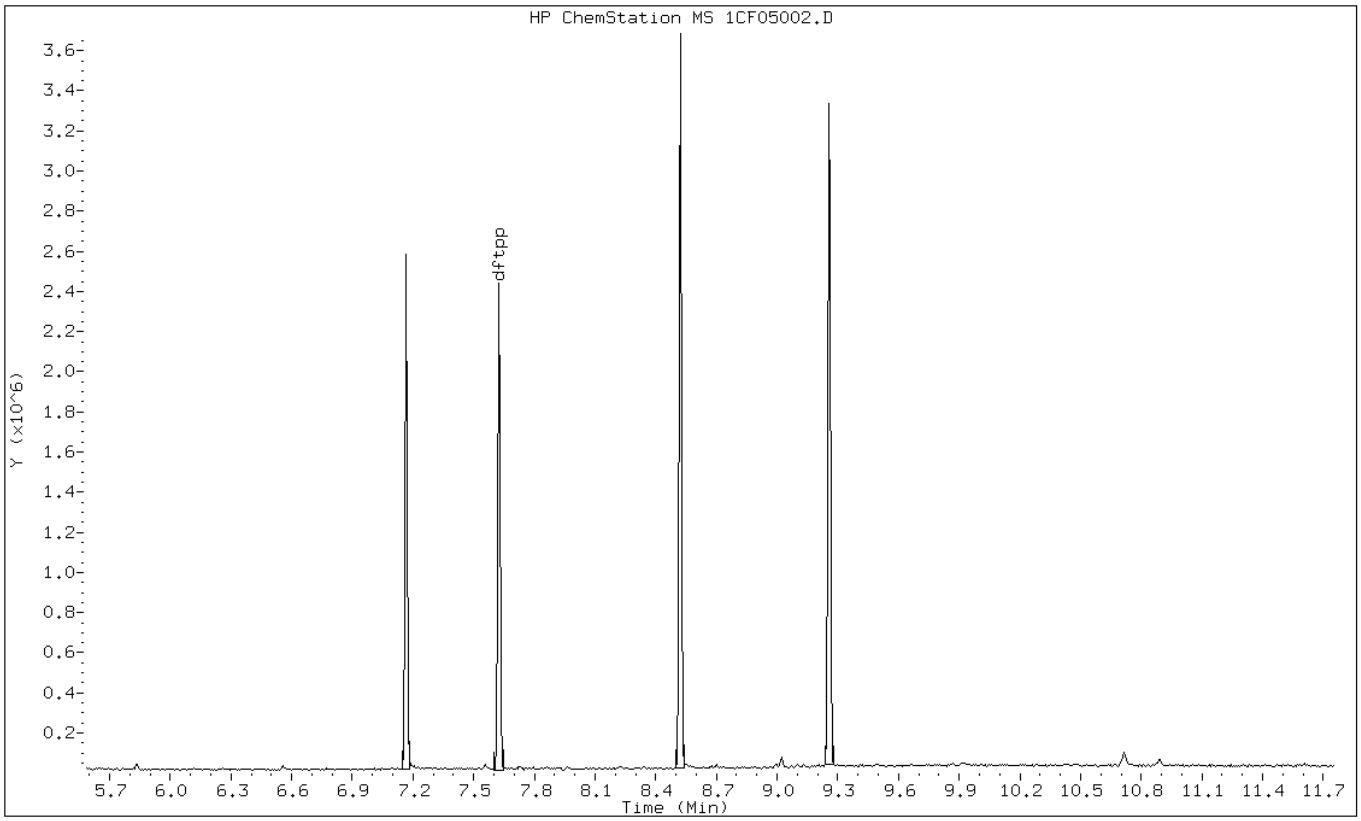
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.622	7.669	-0.047	198	275392			50.00- 0.00	100.00
7.622	7.669	-0.047	51	86888			10.00- 80.00	31.55
7.622	7.669	-0.047	68	1497			0.00- 2.00	1.25
7.622	7.669	-0.047	69	119824			0.00- 0.00	43.51
7.622	7.669	-0.047	70	211			0.00- 2.00	0.18
7.622	7.669	-0.047	127	132544			10.00- 80.00	48.13
7.622	7.669	-0.047	197	1882			0.00- 2.00	0.68
7.622	7.669	-0.047	442	243840			50.00- 0.00	88.54
7.622	7.669	-0.047	199	16277			5.00- 9.00	5.91
7.622	7.669	-0.047	275	69016			10.00- 60.00	25.06
7.622	7.669	-0.047	365	6480			1.00- 0.00	2.35
7.622	7.669	-0.047	441	34456			0.01- 99.99	75.35
7.622	7.669	-0.047	443	45728			15.00- 24.00	18.75

Data File: 1CF05002.D

Date: 05-JUN-2013 11:08

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 | Operator: SCC



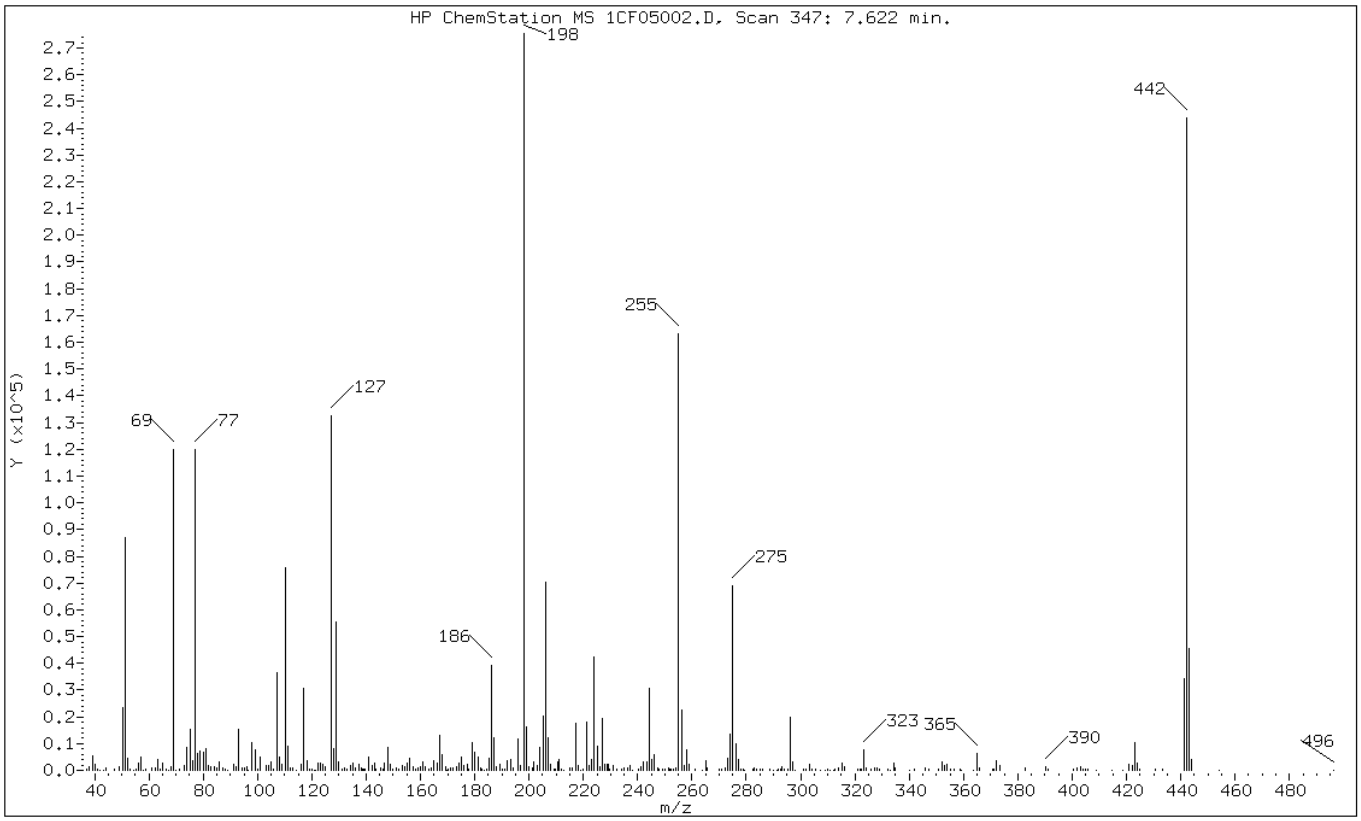
Data File: 1CF05002.D

Date: 05-JUN-2013 11:08

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.55
68	Less than 2.00% of mass 69	0.54 (1.25)
69	Mass 69 relative abundance	43.51
70	Less than 2.00% of mass 69	0.08 (0.18)
127	10.00 - 80.00% of mass 198	48.13
197	Less than 2.00% of mass 198	0.68
442	Greater than 50.00% of mass 198	88.54
199	5.00 - 9.00% of mass 198	5.91
275	10.00 - 60.00% of mass 198	25.06
365	Greater than 1.00% of mass 198	2.35
441	Present, but less than mass 443	12.51
443	15.00 - 24.00% of mass 442	16.60 (18.75)

Data File: 1CF05002.D

Date: 05-JUN-2013 11:08

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05002.D
Spectrum: HP ChemStation MS 1CF05002.D, Scan 347: 7.622 min.
Location of Maximum: 198.10
Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	454	125.10	1382	204.10	8724	292.70	409
38.00	1270	127.10	132544	205.10	20472	293.10	1408
39.10	5224	128.10	8140	206.10	70504	293.80	273
40.00	2290	129.10	55256	207.20	12000	295.10	596
40.90	318	130.00	3365	208.10	2103	296.10	19840
42.10	190	131.20	605	209.10	426	296.90	3010
43.40	182	132.10	845	209.90	534	298.10	221
44.10	1044	132.80	316	210.60	3091	301.10	665
47.20	440	134.10	1698	211.10	3843	302.00	475
49.20	1487	135.00	2534	212.10	363	303.10	2129
50.20	23552	135.90	891	213.00	203	304.10	611
51.20	86888	136.20	889	215.00	1033	305.30	442
52.20	4480	137.20	2240	216.00	1121	307.50	157
53.10	459	138.10	913	217.10	17432	309.10	187
54.20	151	138.60	590	218.10	1866	309.80	313
55.10	569	139.10	451	219.20	188	310.90	186
56.10	2647	139.80	276	219.80	393	312.30	201
57.10	5030	141.10	5153	221.10	17880	312.80	650
57.90	171	142.20	1698	222.30	1687	314.00	1011
59.00	318	143.00	2532	223.10	3842	315.10	2737
61.10	704	143.80	331	224.10	42280	316.00	1253
62.20	1012	145.20	683	225.10	9093	321.10	642
63.20	4090	146.10	500	226.20	1344	321.80	387
64.10	668	146.90	2646	227.10	19352	322.20	257
65.00	2577	148.10	8694	228.00	2242	323.10	7549
66.20	529	149.10	2119	228.90	2088	324.10	1021
67.40	150	149.90	476	229.10	2083	326.10	296
68.00	1497	151.10	950	229.70	577	327.10	985
69.10	119824	152.10	535	231.10	1824	328.10	940
70.10	211	153.20	1655	232.10	273	329.10	400
71.10	442	154.20	1347	234.00	610	332.20	457
73.10	1854	155.10	2602	235.00	947	333.10	200
74.10	8466	156.10	4562	236.10	702	334.20	2858
75.10	15262	157.30	1243	237.00	2023	335.00	691
76.20	3798	158.10	509	238.00	223	340.20	190
77.20	119936	159.00	1070	240.10	521	341.90	541
78.10	6316	160.00	1282	241.00	1154	346.00	793
79.00	7102	161.10	3016	242.20	2993	347.20	288
80.10	6562	161.90	1283	243.20	3084	350.90	414
81.10	8306	163.10	553	244.20	30864	352.10	3108

82.10	1987	164.00	1115	245.20	4001	353.00	1618
83.00	1345	165.00	3439	246.00	5934	354.10	2246
84.00	1283	166.20	2705	247.20	773	355.00	397
85.10	1079	167.10	12928	247.90	511	356.40	237
86.10	2978	168.10	5904	249.10	548	358.60	246
87.20	917	169.10	1240	250.00	323	359.30	193
88.20	465	169.70	189	251.20	930	363.80	200
89.00	210	170.20	271	251.90	387	365.00	6480
91.10	2208	171.10	1103	252.40	335	366.00	1110
92.00	1489	172.00	1026	253.20	550	370.70	551
93.10	15362	173.10	1128	253.90	1094	371.20	423
94.20	1125	174.00	2928	255.10	163200	372.10	3442
95.30	895	175.10	4813	256.10	22584	373.20	1917
96.00	1147	176.10	2018	257.20	1761	382.90	1048
96.70	217	177.10	2181	258.10	7468	390.10	1403
98.10	10381	177.90	536	259.10	2064	391.30	376
99.10	7602	179.10	10287	261.00	444	400.40	264
100.10	378	180.10	6638	264.00	171	402.00	923
101.10	4781	181.10	4996	265.00	3529	403.00	1168
103.00	1914	182.10	971	265.80	855	403.90	306
104.10	1712	182.80	337	270.10	291	405.10	445
105.10	3284	183.60	221	271.10	292	406.00	289
106.00	571	184.40	451	272.10	971	408.90	171
107.10	36624	185.10	4667	273.10	4463	414.80	213
108.10	4800	186.10	39240	274.10	13517	418.80	168
109.10	2090	187.10	12075	275.10	69016	421.00	2167
110.10	75616	188.10	1156	276.20	10082	422.20	1633
111.10	9041	189.10	2301	277.10	4201	423.10	10250
112.20	1105	190.00	569	278.00	434	424.00	2586
113.10	686	191.00	662	278.90	306	425.00	472
114.40	166	192.10	3743	279.20	206	430.50	540
116.10	2144	193.10	4109	282.30	327	433.40	251
117.10	30584	194.20	1064	283.10	811	441.10	34456
118.10	3574	196.10	11577	284.00	593	442.10	243840
119.10	353	196.90	1882	284.90	649	443.10	45728
120.10	303	198.10	275392	285.30	397	444.10	4275
120.90	196	199.10	16277	286.10	326	454.00	159
121.30	151	200.10	1213	288.80	329	496.30	194
122.10	2587	201.10	786	290.00	187		
123.10	2859	201.60	3074	291.20	175		
124.00	2243	202.90	1808	291.80	440		

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

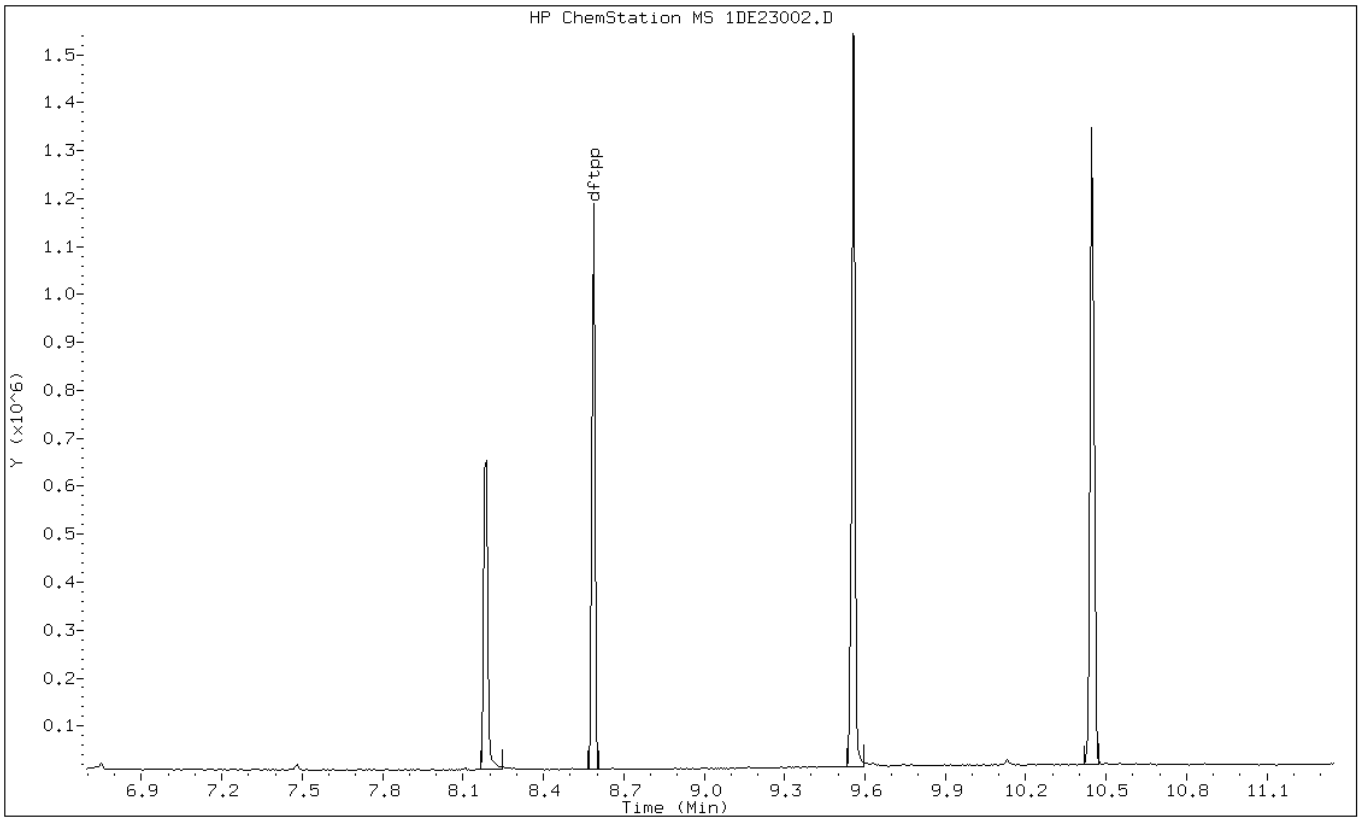
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.587	8.532	0.055	198	121784			50.00- 0.00	100.00
8.587	8.532	0.055	51	67440			10.00- 80.00	55.38
8.587	8.532	0.055	68	0	0.0	0.0	0.00- 2.00	0.00
8.587	8.532	0.055	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



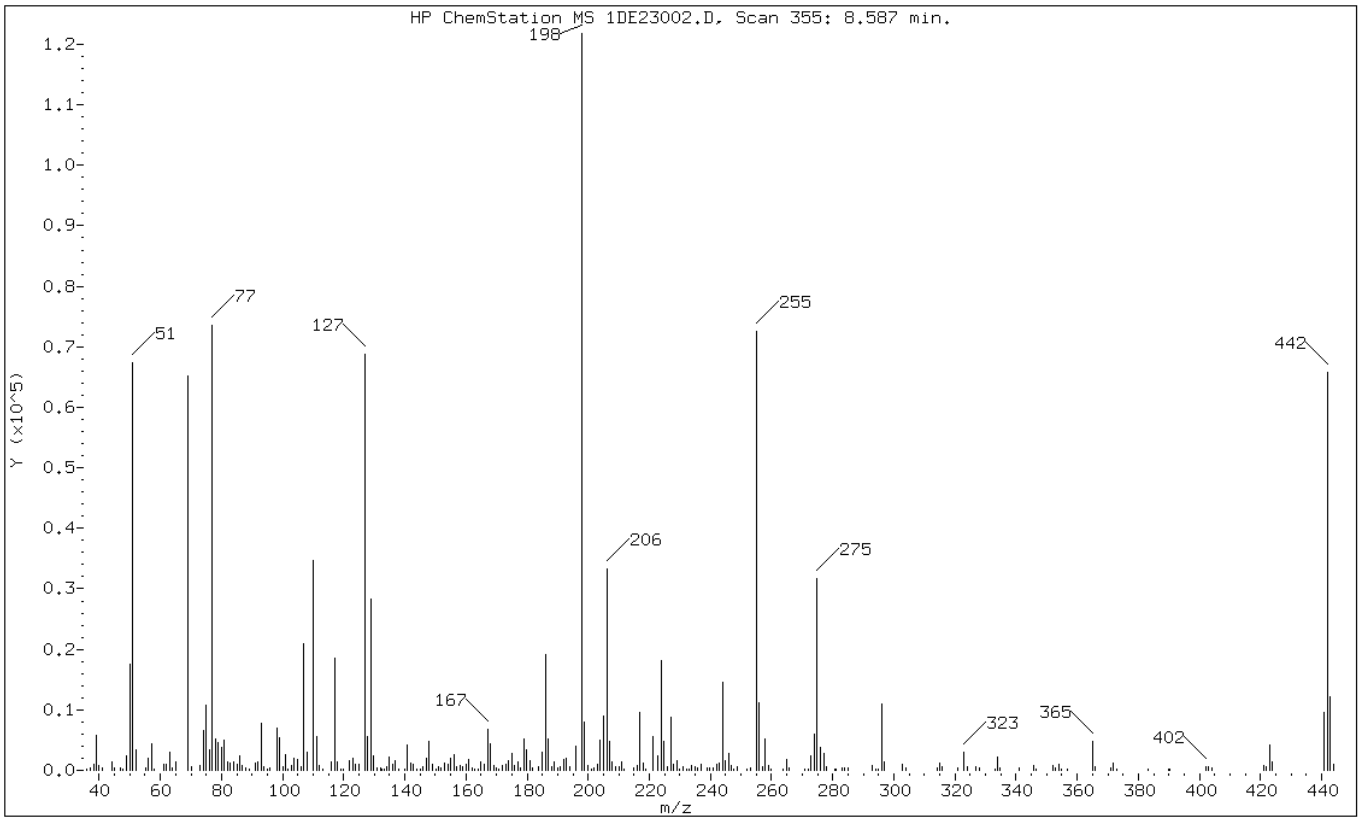
Data File: 1DE23002.D

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\1D060613.b\1DF06002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 06-JUN-2013 12:05
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1562005
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060613.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

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.567	8.532	0.035	198	24016			50.00- 0.00	100.00
8.567	8.532	0.035	51	8871			10.00- 80.00	36.94
8.567	8.532	0.035	68	0	0.0	0.0	0.00- 2.00	0.00
8.567	8.532	0.035	69	9625			0.00- 0.00	40.08
8.567	8.532	0.035	70	0	0.0	0.0	0.00- 2.00	0.00
8.567	8.532	0.035	127	10891			10.00- 80.00	45.35
8.567	8.532	0.035	197	189			0.00- 2.00	0.79
8.567	8.532	0.035	442	18472			50.00- 0.00	76.92
8.567	8.532	0.035	199	1466			5.00- 9.00	6.10
8.567	8.532	0.035	275	7466			10.00- 60.00	31.09
8.567	8.532	0.035	365	1161			1.00- 0.00	4.83
8.567	8.532	0.035	441	2903			0.01- 99.99	76.31
8.567	8.532	0.035	443	3804			15.00- 24.00	20.59

Data File: 1DF06002.D

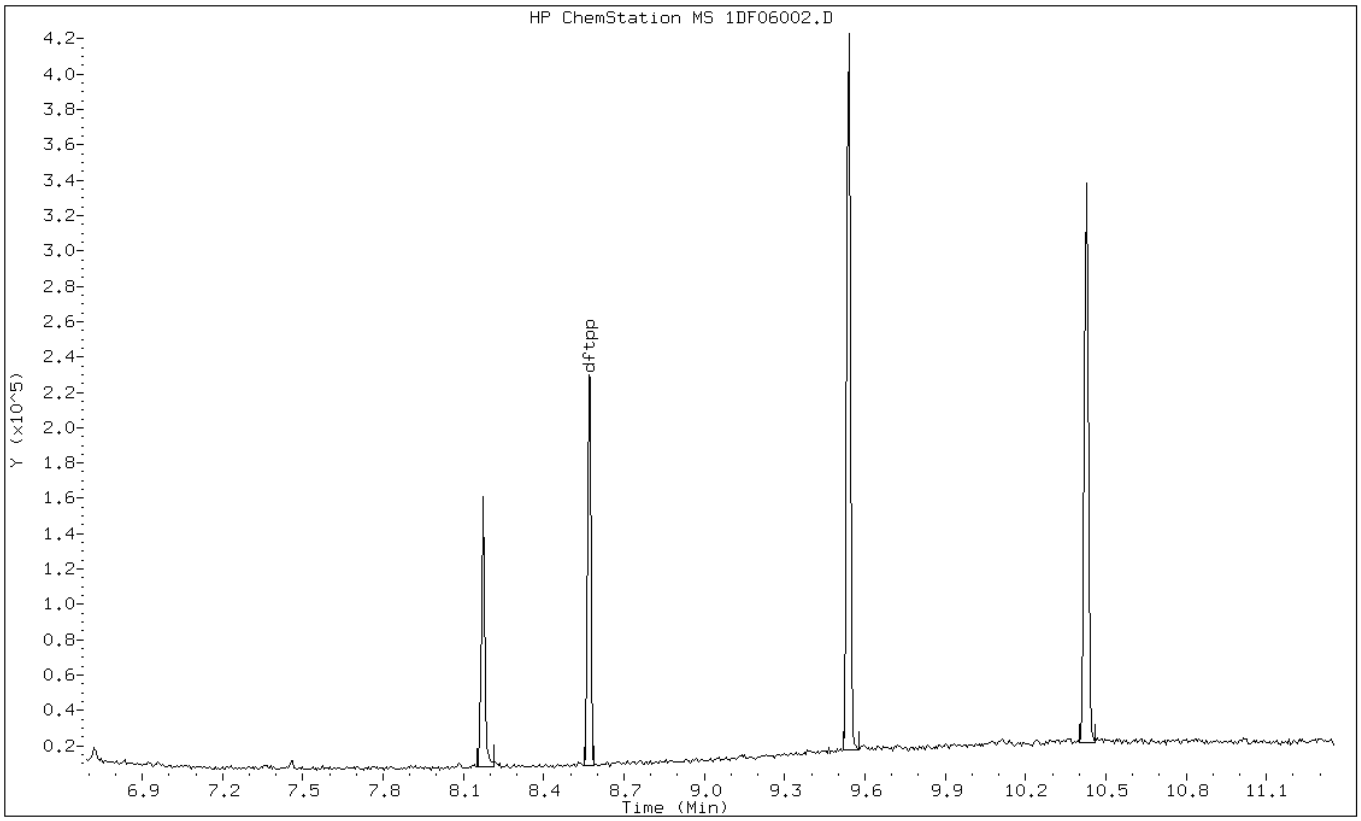
Date: 06-JUN-2013 12:05

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1562005

Operator: SCC



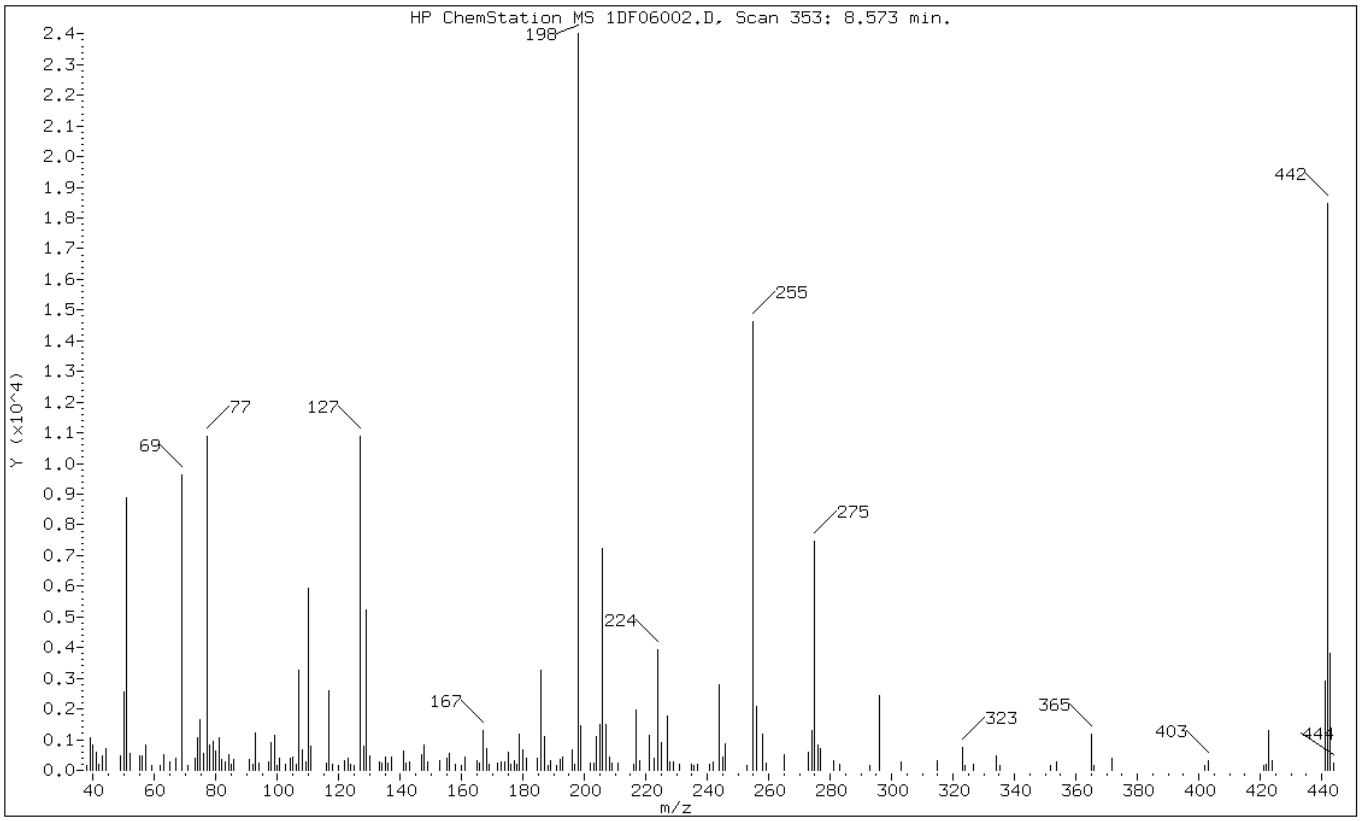
Data File: 1DF06002.D

Date: 06-JUN-2013 12:05

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1562005 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	36.94
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	40.08
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	45.35
197	Less than 2.00% of mass 198	0.79
442	Greater than 50.00% of mass 198	76.92
199	5.00 - 9.00% of mass 198	6.10
275	10.00 - 60.00% of mass 198	31.09
365	Greater than 1.00% of mass 198	4.83
441	Present, but less than mass 443	12.09
443	15.00 - 24.00% of mass 442	15.84 (20.59)

Data File: 1DF06002.D

Date: 06-JUN-2013 12:05

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1562005 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D060613.b\1DF06002.D
Spectrum: HP ChemStation MS 1DF06002.D, Scan 353: 8.573 min.
Location of Maximum: 197.90
Number of points: 174

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.90	160	102.80	212	173.00	288	240.90	181
39.00	1052	104.00	395	173.90	286	241.90	267
40.00	844	104.90	436	175.00	574	244.00	2795
41.10	604	106.10	179	175.90	216	245.00	438
42.00	206	107.00	3281	177.00	326	245.90	847
43.10	458	108.00	675	177.90	209	252.90	153
44.00	699	109.10	260	178.90	1182	254.90	14621
48.90	470	109.90	5943	179.90	649	255.90	2101
50.00	2560	111.00	799	180.90	379	257.90	1169
51.00	8871	116.00	241	184.80	397	259.00	222
51.90	537	116.90	2589	185.90	3260	264.90	511
55.10	473	117.80	193	186.90	1096	272.90	591
55.90	471	120.00	164	188.10	173	273.90	1279
57.00	831	122.00	317	188.90	332	274.90	7466
59.00	165	122.90	399	190.90	159	275.90	814
62.00	164	123.90	216	191.90	348	276.90	706
62.90	503	124.80	155	193.00	432	281.10	298
65.00	276	127.00	10891	196.00	654	282.90	196
67.00	379	128.00	777	196.90	189	293.00	157
68.90	9625	128.90	5227	197.90	24016	296.00	2422
71.00	160	130.00	479	198.90	1466	303.00	290
73.10	378	133.20	264	201.80	240	314.90	299
74.00	1051	134.00	239	202.90	250	323.00	729
74.90	1643	135.00	446	203.90	1091	323.80	171
75.90	532	136.00	241	204.90	1491	326.80	180
77.00	10871	137.00	439	205.90	7213	334.00	460
78.00	830	140.90	646	206.90	1499	335.10	159
79.10	937	141.80	243	208.00	415	351.90	154
79.90	629	142.90	262	208.90	243	353.80	267
80.90	1051	147.00	519	210.90	236	364.90	1161
82.00	335	147.90	840	215.80	180	365.90	167
83.00	280	148.90	271	216.90	1970	371.80	397
84.00	500	153.00	317	218.00	301	401.90	153
84.80	205	155.00	393	220.90	1139	403.00	326
85.90	360	155.90	563	222.80	398	421.10	155
91.00	356	157.90	200	223.90	3937	421.80	184
92.00	203	159.90	170	224.90	922	422.90	1278
93.00	1207	160.90	452	226.90	1769	423.90	314
94.00	247	165.00	320	227.90	263	441.00	2903
97.00	272	165.90	240	229.00	260	441.90	18472

97.90	915	166.80	1304	230.90	187	442.90	3804
98.90	1154	168.00	726	234.70	182	443.90	250
99.90	154	169.00	196	235.80	157		
100.80	379	171.80	222	236.90	200		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-90723-2
SDG No.: 68090723-2
Client Sample ID:
Lab Sample ID: MB 660-137991/1-A
Matrix: Solid
Lab File ID: 1CF04020.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 06/03/2013 10:11
Sample wt/vol: 15.01(g)
Date Analyzed: 06/04/2013 16:06
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 138098
Units: ug/Kg

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04020.D
Lab Smp Id: mb 660-137991/1-a
Inj Date : 04-JUN-2013 16:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-137991/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 20 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	15.010	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

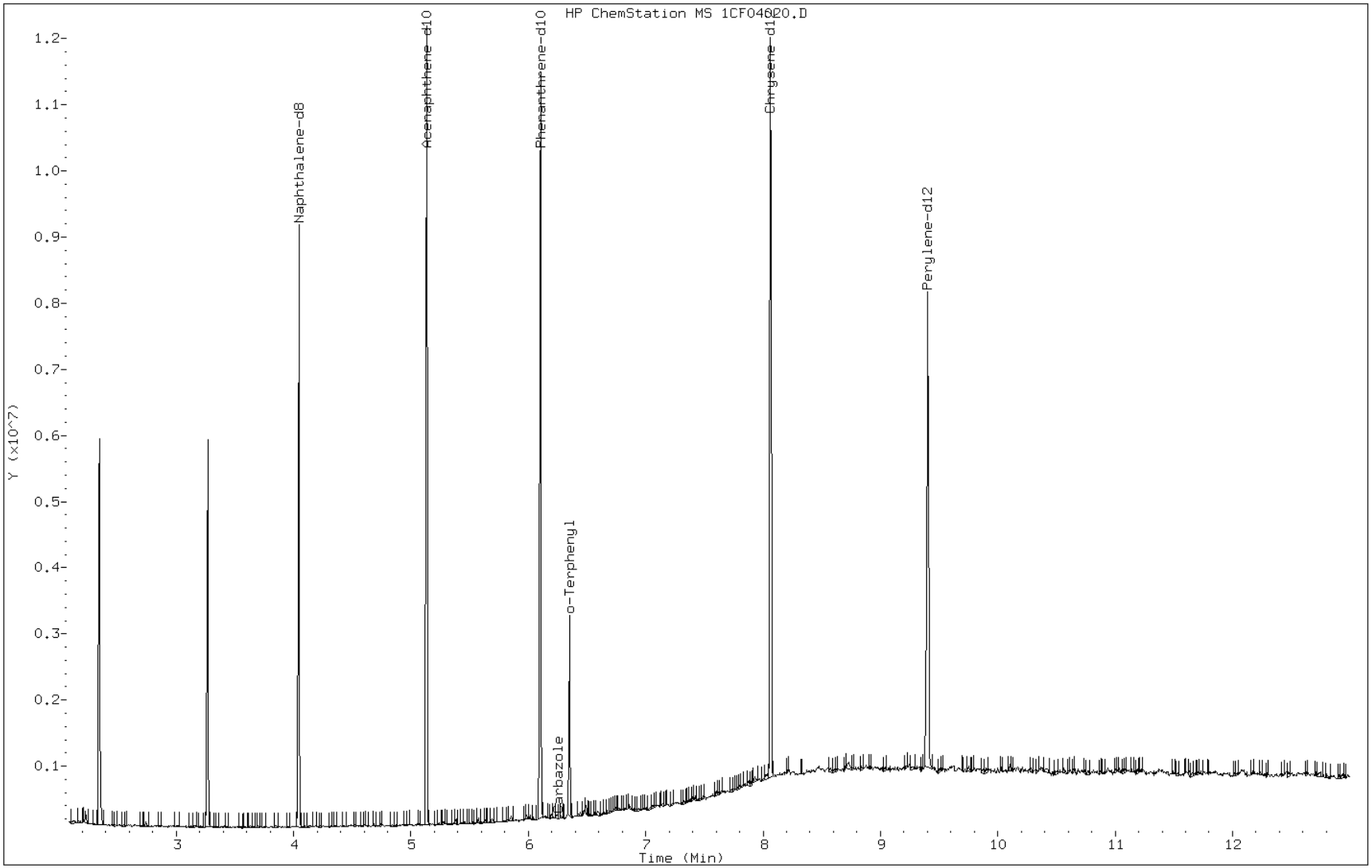
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	4.045	4.045	(1.000)	2538180	40.0000	
* 6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1800811	40.0000	
* 10 Phenanthrene-d10	188	6.103	6.104	(1.000)	3242505	40.0000	
$ 14 o-Terphenyl	230	6.350	6.351	(1.040)	434966	8.61149	573.7167
* 18 Chrysene-d12	240	8.062	8.068	(1.000)	3347505	40.0000	
* 23 Perylene-d12	264	9.403	9.409	(1.000)	3307771	40.0000	
13 Carbazole	167	6.262	6.257	(1.026)	2702	0.14743	9.8223

Data File: 1CF04020.D

Date: 04-JUN-2013 16:06

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-137991/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: | Lab Sample ID: MB 660-137999/1-A

Matrix: Solid | Lab File ID: 1CF05025.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/03/2013 13:04

Sample wt/vol: 15.17(g) | Date Analyzed: 06/05/2013 19:12

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.: 138101 | 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	4.9
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05025.D
Lab Smp Id: mb 660-137999/1-a
Inj Date : 05-JUN-2013 19:12
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-137999/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 25 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	15.170	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	4.039	4.039	(1.000)	2183946	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1598557	40.0000	
* 10 Phenanthrene-d10	188	6.092	6.092	(1.000)	2946078	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.042)	404429	8.81255	580.9195
* 18 Chrysene-d12	240	8.057	8.056	(1.000)	3429654	40.0000	
* 23 Perylene-d12	264	9.386	9.392	(1.000)	3201426	40.0000	
11 Phenanthrene	178	6.110	6.110	(1.003)	3746	0.04304	2.8370
15 Fluoranthene	202	6.963	6.962	(1.143)	2822	0.03172	2.0909(Q)

QC Flag Legend

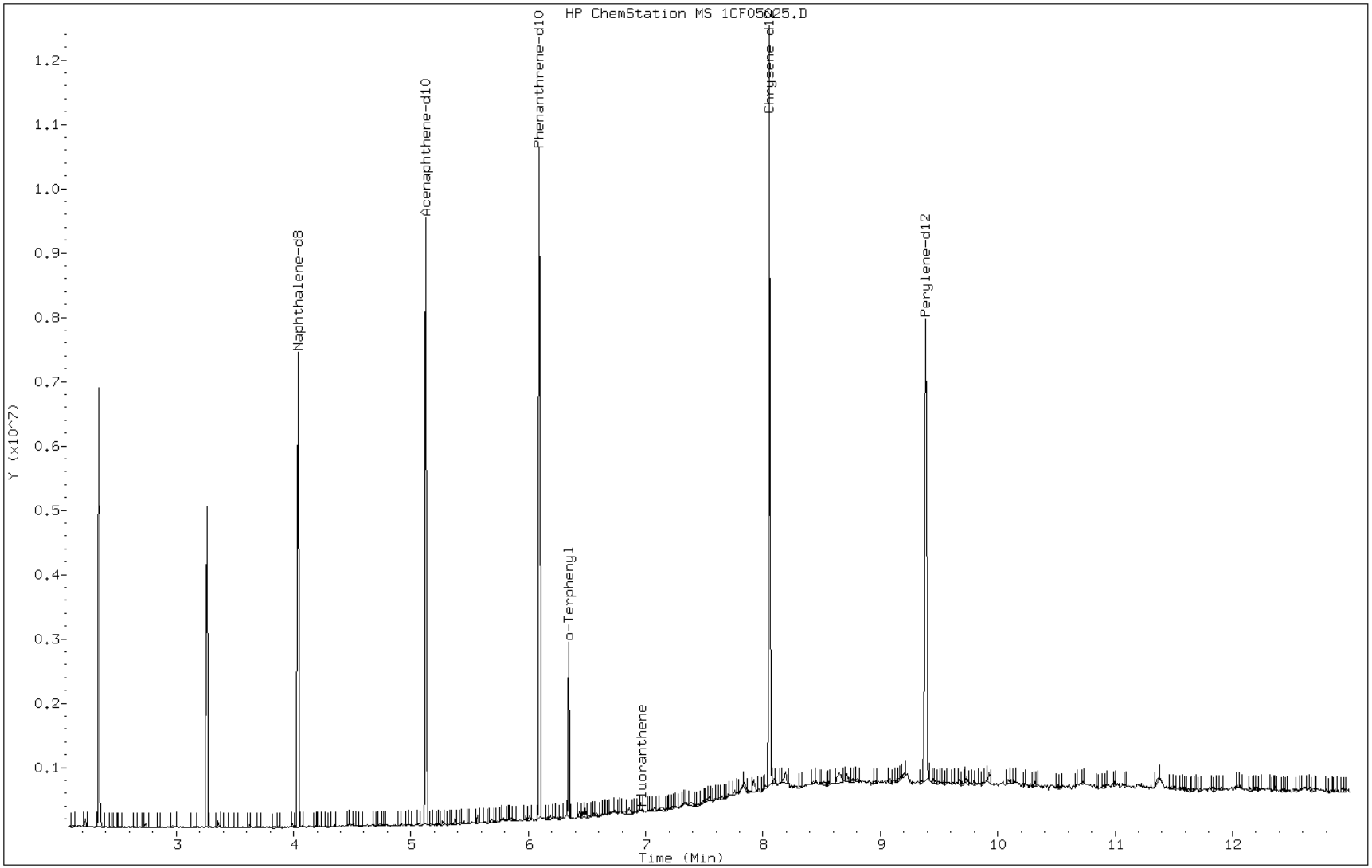
Q - Qualifier signal failed the ratio test.

Data File: 1CF05025.D

Date: 05-JUN-2013 19:12

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-137999/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-90723-2
SDG No.: 68090723-2
Client Sample ID:
Lab Sample ID: LCS 660-137991/2-A
Matrix: Solid
Lab File ID: 1CF04021.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 06/03/2013 10:11
Sample wt/vol: 15.06(g)
Date Analyzed: 06/04/2013 16:24
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.: 138098
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	584		100	20
208-96-8	Acenaphthylene	628		40	5.0
120-12-7	Anthracene	592		8.4	4.2
56-55-3	Benzo[a]anthracene	612		8.0	3.9
50-32-8	Benzo[a]pyrene	583		10	5.2
205-99-2	Benzo[b]fluoranthene	680		12	6.1
191-24-2	Benzo[g,h,i]perylene	561		20	4.4
207-08-9	Benzo[k]fluoranthene	597		8.0	3.6
218-01-9	Chrysene	572		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	689		20	4.1
206-44-0	Fluoranthene	594		20	4.0
86-73-7	Fluorene	617		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	533		20	7.1
90-12-0	1-Methylnaphthalene	590		40	4.4
91-57-6	2-Methylnaphthalene	576		40	7.1
91-20-3	Naphthalene	499		40	4.4
85-01-8	Phenanthrene	543		8.0	3.9
129-00-0	Pyrene	662		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04021.D
Lab Smp Id: lcs 660-137991/2-a
Inj Date : 04-JUN-2013 16:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-137991/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 21 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	15.430	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	4.045	4.045	(1.000)	2633436	40.0000	
* 6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1783286	40.0000	
* 10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3441118	40.0000	
$ 14 o-Terphenyl	230	6.351	6.351	(1.040)	462781	8.63335	559.5173
* 18 Chrysene-d12	240	8.062	8.068	(1.000)	3508337	40.0000	
* 23 Perylene-d12	264	9.404	9.409	(1.000)	3331650	40.0000	
2 Naphthalene	128	4.057	4.057	(1.003)	558232	7.51167	486.8227
3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	357696	8.67764	562.3875
4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	360547	8.89021	576.1641
5 Acenaphthylene	152	5.045	5.045	(0.983)	646814	9.46140	613.1821
7 Acenaphthene	154	5.151	5.151	(1.003)	376903	8.79166	569.7767
9 Fluorene	166	5.480	5.480	(1.068)	508007	9.28697	601.8773
11 Phenanthrene	178	6.116	6.121	(1.002)	830924	8.17315	529.6918
12 Anthracene	178	6.151	6.157	(1.008)	839239	8.91041	577.4729

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.257	6.257	(1.025)	737180	8.49493	550.5466
15 Fluoranthene	202	6.968	6.968	(1.142)	930224	8.95172	580.1504
16 Pyrene	202	7.139	7.145	(0.885)	944104	9.96563	645.8605
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	891584	9.21623	597.2932
19 Chrysene	228	8.086	8.092	(1.003)	838900	8.61291	558.1923
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	838792	10.2470	664.0988
21 Benzo(k)fluoranthene	252	9.021	9.027	(0.959)	821823	8.98899	582.5658
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	726519	8.77933	568.9779
24 Indeno(1,2,3-cd)pyrene	276	10.786	10.792	(1.147)	701050	8.02596	520.1527(M)
25 Dibenzo(a,h)anthracene	278	10.809	10.815	(1.149)	738288	10.3822	672.8587(M)
26 Benzo(g,h,i)perylene	276	11.203	11.215	(1.191)	654242	8.45280	547.8161(M)

QC Flag Legend

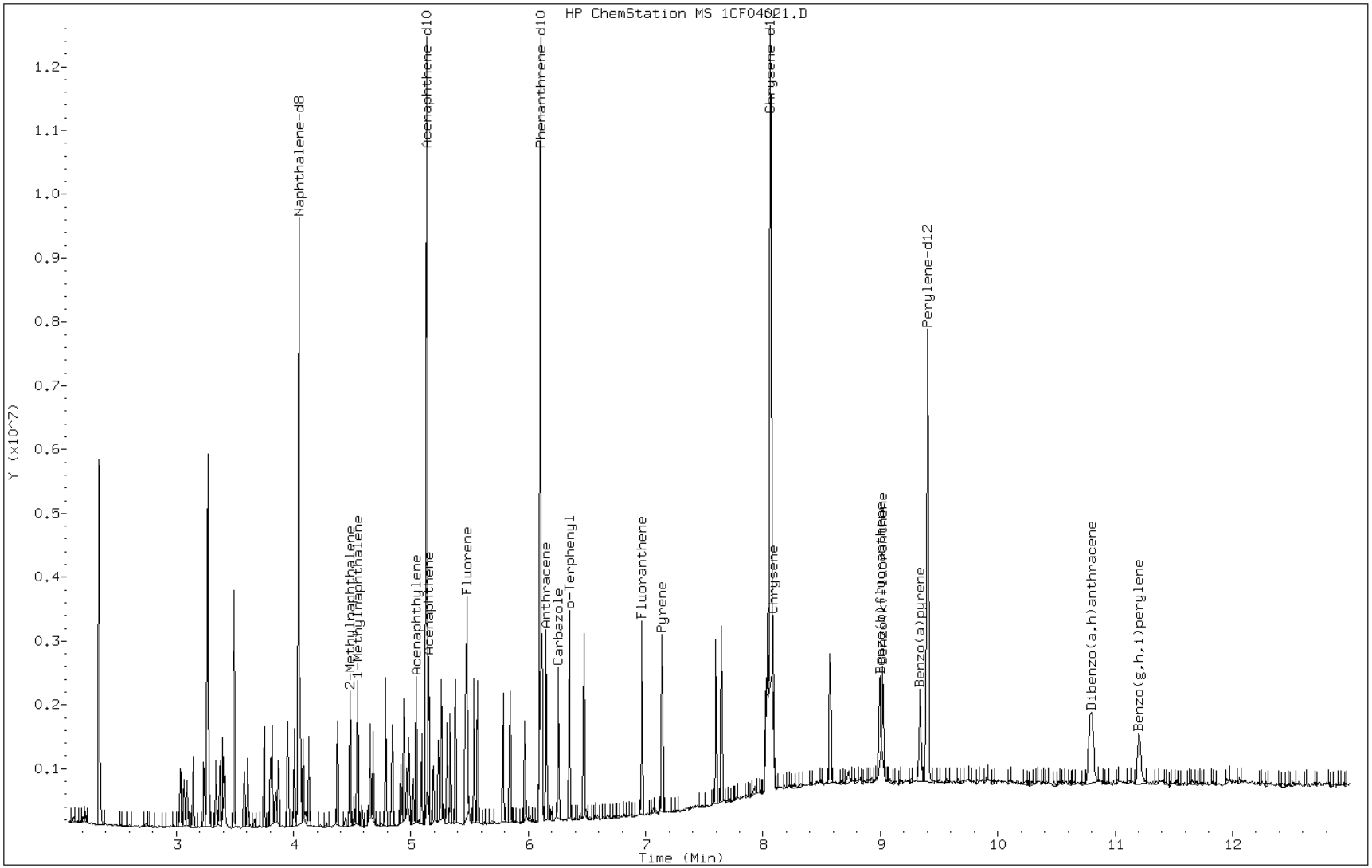
M - Compound response manually integrated.

Data File: 1CF04021.D

Date: 04-JUN-2013 16:24

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-137991/2-a Operator: SCC



Manual Integration Report

Data File: 1CF04021.D
Inj. Date and Time: 04-JUN-2013 16:24
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/05/2013

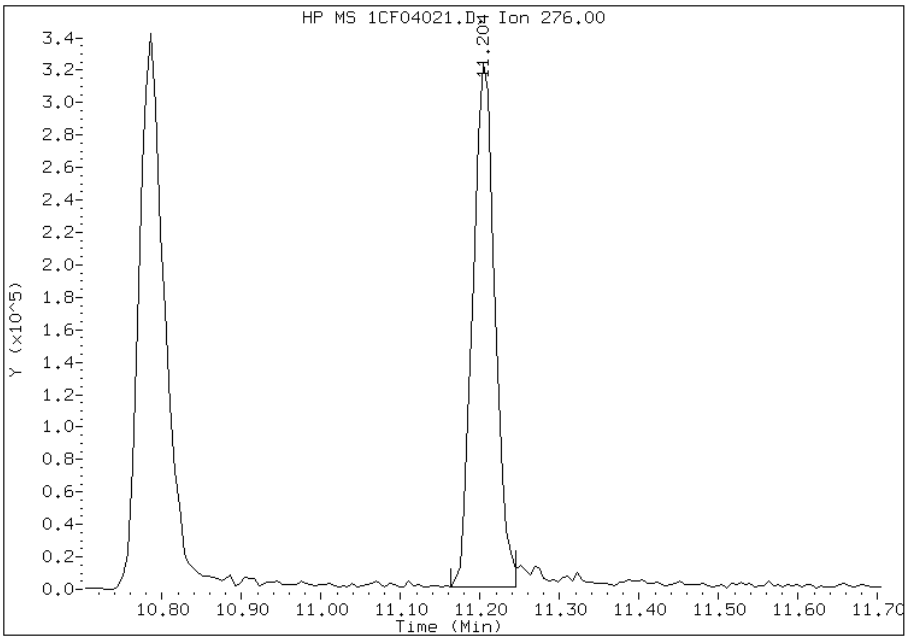
Processing Integration Results

RT: 11.20

Response: 618476

Amount: 8

Conc: 518



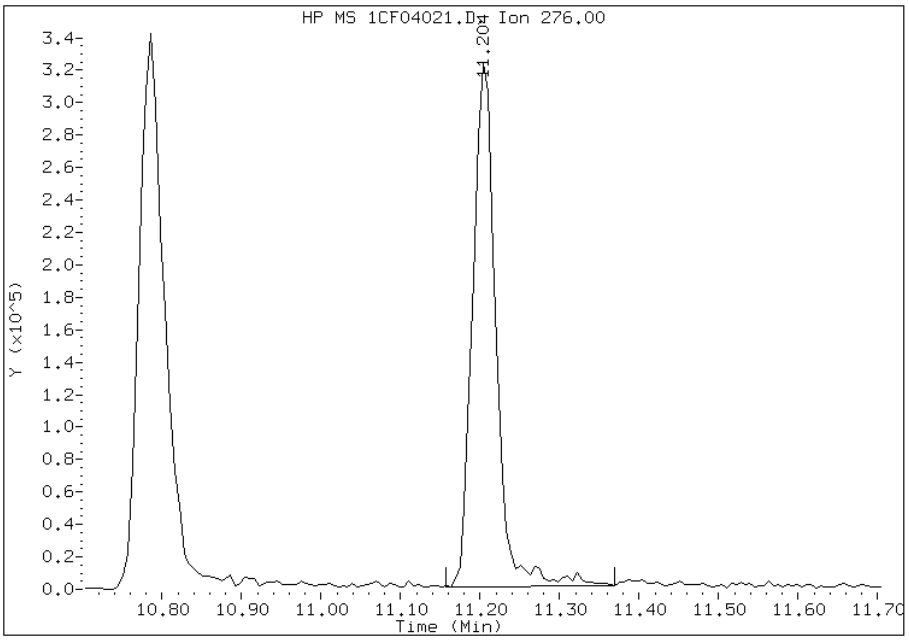
Manual Integration Results

RT: 11.20

Response: 654242

Amount: 8

Conc: 548



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 13:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04021.D
Inj. Date and Time: 04-JUN-2013 16:24
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/05/2013

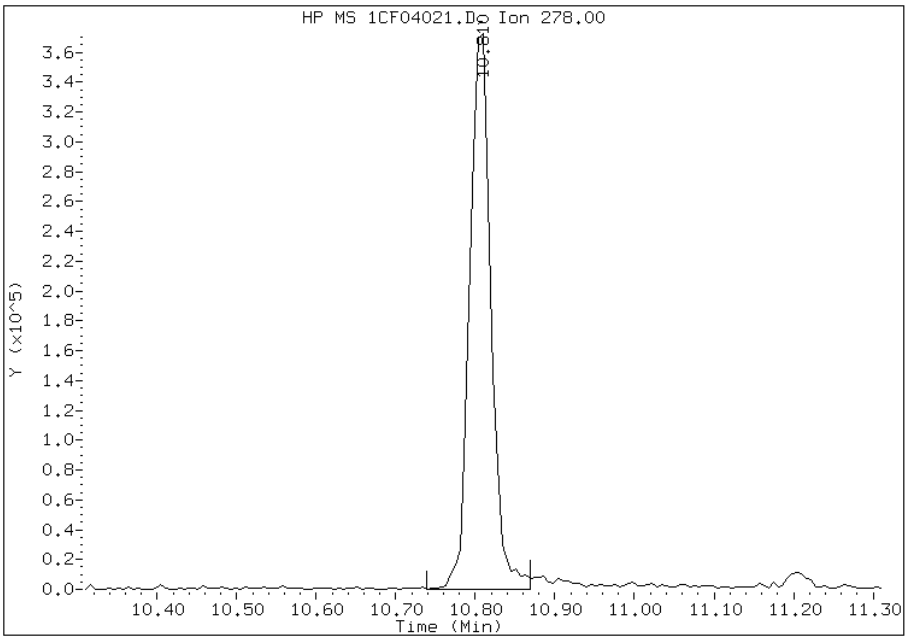
Processing Integration Results

RT: 10.81

Response: 691357

Amount: 10

Conc: 630



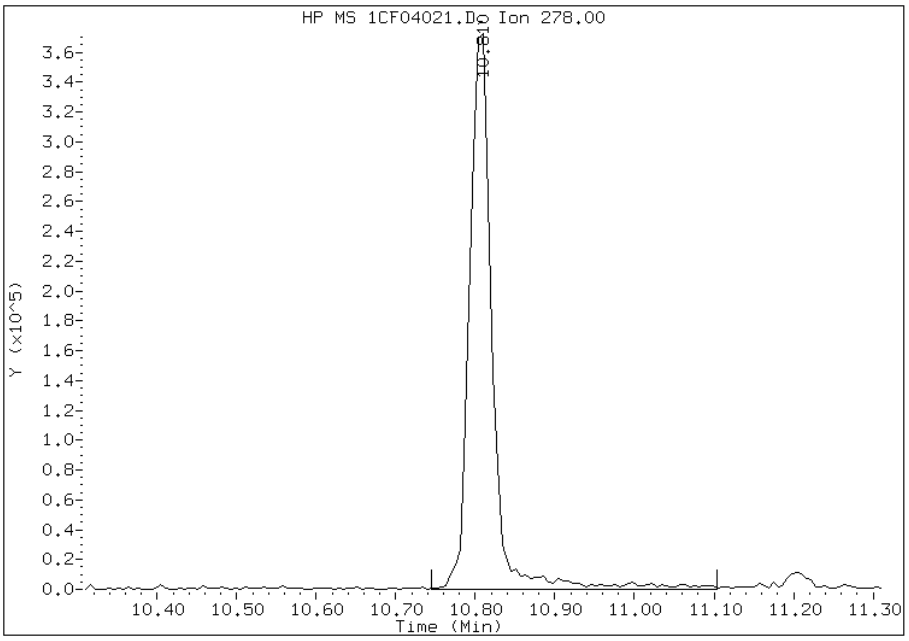
Manual Integration Results

RT: 10.81

Response: 738288

Amount: 10

Conc: 673



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 13:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04021.D
Inj. Date and Time: 04-JUN-2013 16:24
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

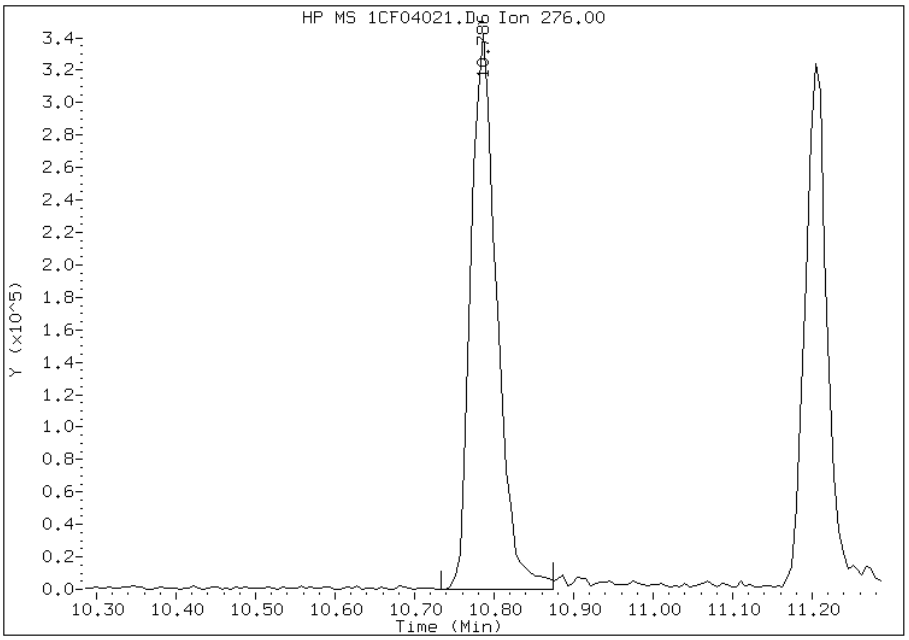
Processing Integration Results

RT: 10.79

Response: 779320

Amount: 9

Conc: 577



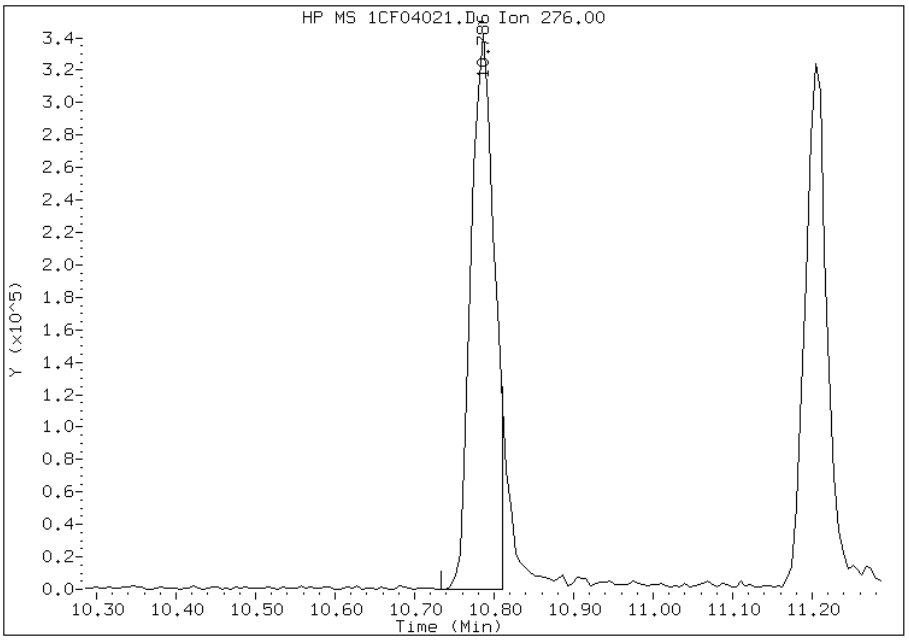
Manual Integration Results

RT: 10.79

Response: 701050

Amount: 8

Conc: 520



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 13:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-90723-2
SDG No.: 68090723-2
Client Sample ID:
Lab Sample ID: LCS 660-137999/2-A
Matrix: Solid
Lab File ID: 1CF05026.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 06/03/2013 13:04
Sample wt/vol: 14.95(g)
Date Analyzed: 06/05/2013 19:30
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 138101
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	601		100	20
208-96-8	Acenaphthylene	586		40	5.0
120-12-7	Anthracene	562		8.4	4.2
56-55-3	Benzo[a]anthracene	560		8.0	3.9
50-32-8	Benzo[a]pyrene	535		10	5.2
205-99-2	Benzo[b]fluoranthene	669		12	6.1
191-24-2	Benzo[g,h,i]perylene	598		20	4.4
207-08-9	Benzo[k]fluoranthene	541		8.0	3.6
218-01-9	Chrysene	535		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	670		20	4.1
206-44-0	Fluoranthene	597		20	4.0
86-73-7	Fluorene	582		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	583		20	7.1
90-12-0	1-Methylnaphthalene	546		40	4.4
91-57-6	2-Methylnaphthalene	564		40	7.1
91-20-3	Naphthalene	454		40	4.4
85-01-8	Phenanthrene	534		8.0	3.9
129-00-0	Pyrene	539		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05026.D
Lab Smp Id: lcs 660-137999/2-a
Inj Date : 05-JUN-2013 19:30
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-137999/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 26 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	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	4.039	4.039	(1.000)	2085180	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1507736	40.0000	
* 10 Phenanthrene-d10	188	6.092	6.092	(1.000)	2687188	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.042)	359011	8.57656	573.6831
* 18 Chrysene-d12	240	8.057	8.056	(1.000)	3438292	40.0000	
* 23 Perylene-d12	264	9.386	9.392	(1.000)	3126738	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	399187	6.78387	453.7706
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	275229	8.43259	564.0528
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	262351	8.16982	546.4759
5 Acenaphthylene	152	5.039	5.039	(0.983)	506742	8.76715	586.4316
7 Acenaphthene	154	5.145	5.145	(1.003)	325489	8.97993	600.6644
9 Fluorene	166	5.468	5.468	(1.067)	402338	8.69943	581.9019
11 Phenanthrene	178	6.110	6.110	(1.003)	633345	7.97755	533.6156
12 Anthracene	178	6.145	6.145	(1.009)	617579	8.39665	561.6486

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.251	6.251	(1.026)	558195	8.24058	551.2092
15 Fluoranthene	202	6.962	6.962	(1.143)	723876	8.92041	596.6827
16 Pyrene	202	7.133	7.133	(0.885)	747971	8.05616	538.8736
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	794008	8.37480	560.1875
19 Chrysene	228	8.074	8.074	(1.002)	763588	7.99940	535.0767
20 Benzo(b)fluoranthene	252	8.980	8.986	(0.957)	768565	10.0044	669.1934
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.960)	693607	8.08377	540.7204
22 Benzo(a)pyrene	252	9.321	9.327	(0.993)	620326	7.99643	534.8784
24 Indeno(1,2,3-cd)pyrene	276	10.756	10.768	(1.146)	715027	8.70869	582.5213(M)
25 Dibenzo(a,h)anthracene	278	10.780	10.786	(1.149)	668555	10.0177	670.0818
26 Benzo(g,h,i)perylene	276	11.180	11.186	(1.191)	649890	8.94685	598.4514

QC Flag Legend

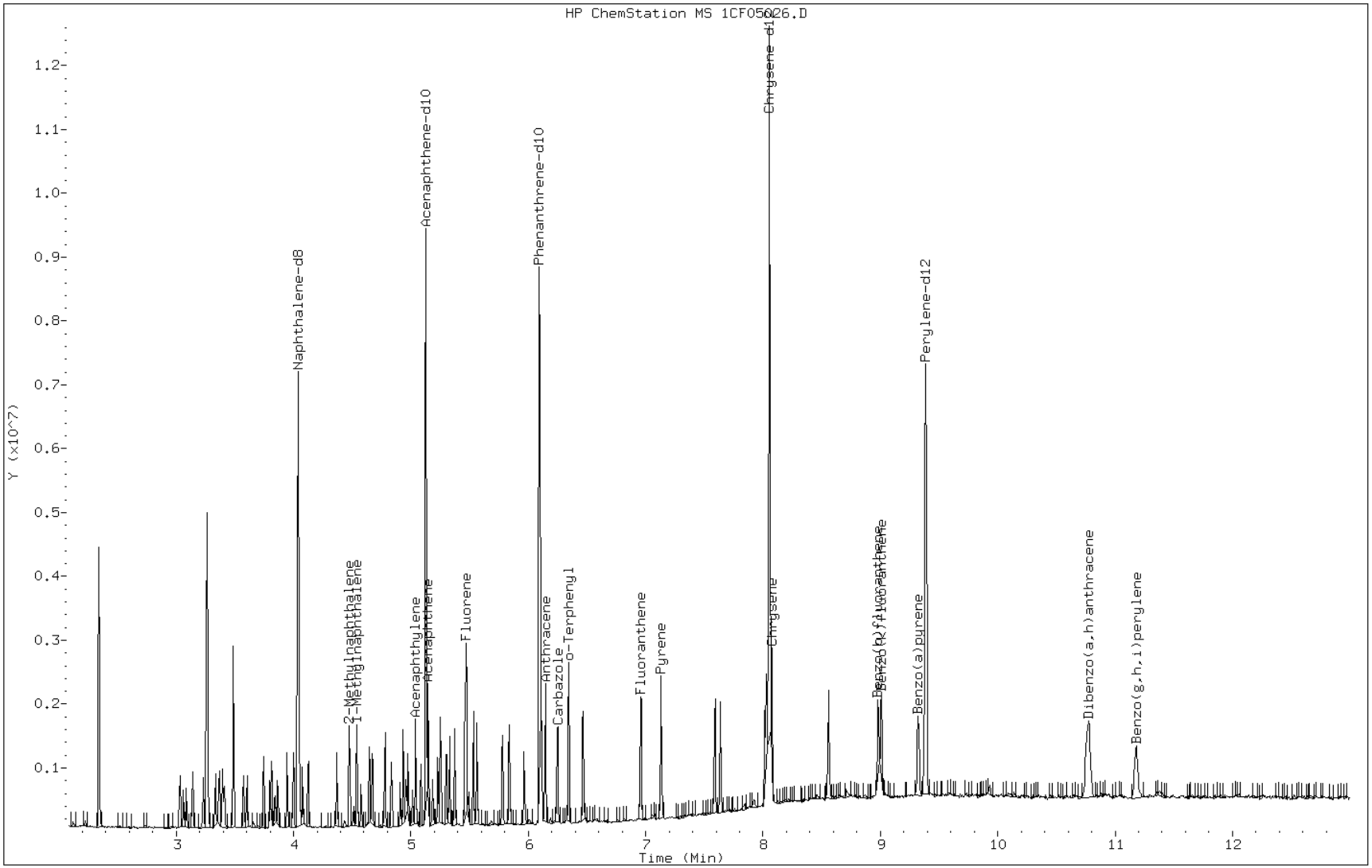
M - Compound response manually integrated.

Data File: 1CF05026.D

Date: 05-JUN-2013 19:30

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-137999/2-a Operator: SCC



Manual Integration Report

Data File: 1CF05026.D
Inj. Date and Time: 05-JUN-2013 19:30
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

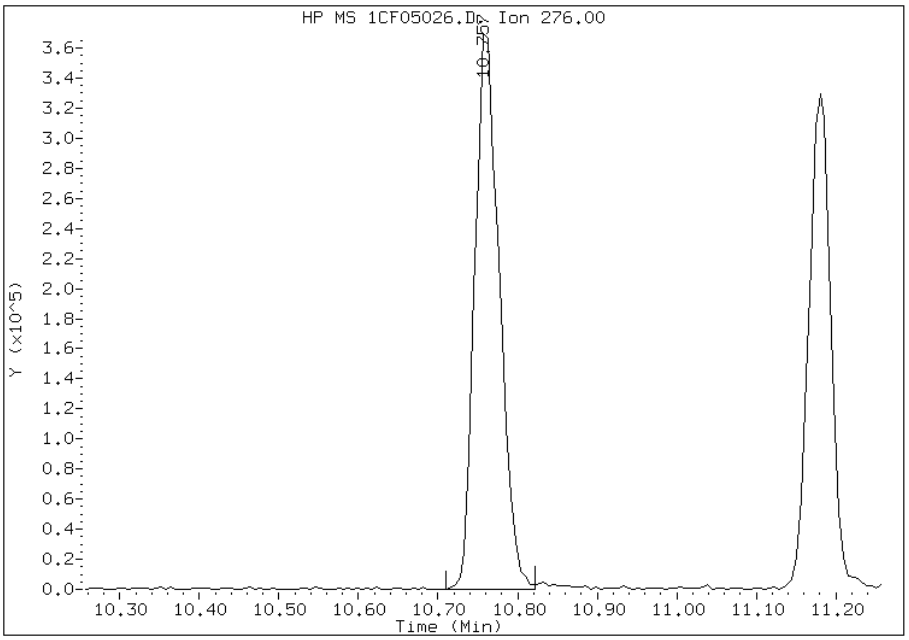
Processing Integration Results

RT: 10.76

Response: 795851

Amount: 10

Conc: 647



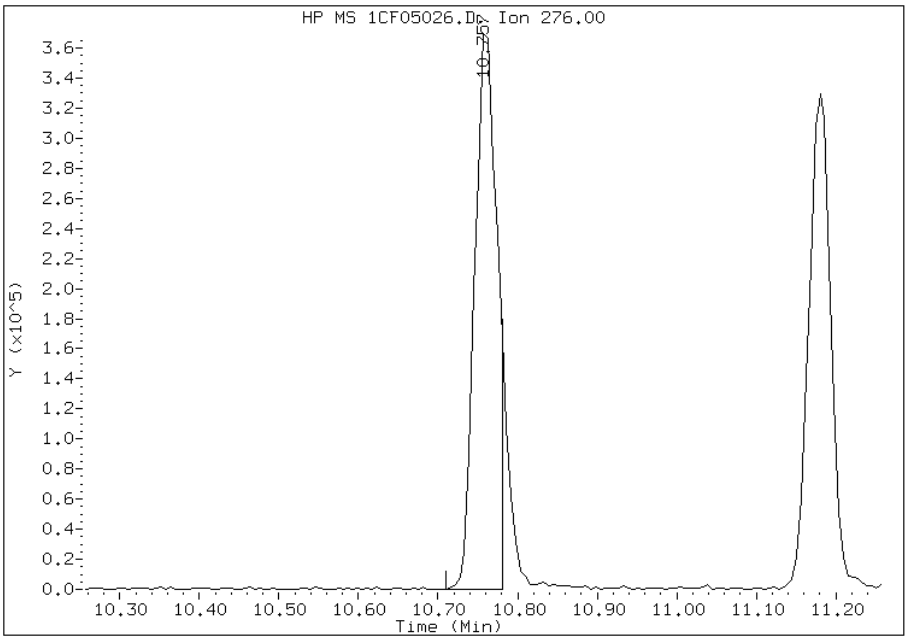
Manual Integration Results

RT: 10.76

Response: 715027

Amount: 9

Conc: 583



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:42
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-90723-2
SDG No.: 68090723-2
Client Sample ID:
Lab Sample ID: 680-90852-A-9-B MS
Matrix: Solid
Lab File ID: 1CF05028.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 06/03/2013 13:04
Sample wt/vol: 14.95(g)
Date Analyzed: 06/05/2013 20:07
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 8.3
GPC Cleanup:(Y/N) N
Analysis Batch No.: 138101
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	394		110	22
208-96-8	Acenaphthylene	419		44	5.5
120-12-7	Anthracene	417		9.2	4.6
56-55-3	Benzo[a]anthracene	429		8.7	4.3
50-32-8	Benzo[a]pyrene	382		11	5.7
205-99-2	Benzo[b]fluoranthene	519		13	6.7
191-24-2	Benzo[g,h,i]perylene	425		22	4.8
207-08-9	Benzo[k]fluoranthene	400		8.7	3.9
218-01-9	Chrysene	441		9.8	4.9
53-70-3	Dibenz(a,h)anthracene	418		22	4.5
206-44-0	Fluoranthene	467		22	4.4
86-73-7	Fluorene	444		22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	373		22	7.8
90-12-0	1-Methylnaphthalene	565		44	4.8
91-57-6	2-Methylnaphthalene	517		44	7.8
91-20-3	Naphthalene	371		44	4.8
85-01-8	Phenanthrene	540		8.7	4.3
129-00-0	Pyrene	482		22	4.0

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05028.D
Lab Smp Id: 680-90852-a-9-b ms
Inj Date : 05-JUN-2013 20:07
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90852-a-9-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 28 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	4.039	4.039	(1.000)	2169232	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1562224	40.0000	
* 10 Phenanthrene-d10	188	6.092	6.092	(1.000)	2941751	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.042)	236526	5.16151	345.2513
* 18 Chrysene-d12	240	8.057	8.056	(1.000)	3209887	40.0000	
* 23 Perylene-d12	264	9.392	9.392	(1.000)	2911796	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	311103	5.08210	339.9396
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	240950	7.09629	474.6681
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	258746	7.74534	518.0832
5 Acenaphthylene	152	5.039	5.039	(0.983)	343804	5.74070	383.9930
7 Acenaphthene	154	5.145	5.145	(1.003)	202906	5.40274	361.3869
9 Fluorene	166	5.468	5.468	(1.067)	291842	6.09017	407.3695
11 Phenanthrene	178	6.110	6.110	(1.003)	644205	7.41217	495.7976
12 Anthracene	178	6.145	6.145	(1.009)	460664	5.72124	382.6913

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.251	6.251	(1.026)	388871	5.28584	353.5678
15 Fluoranthene	202	6.962	6.962	(1.143)	569282	6.40826	428.6461
16 Pyrene	202	7.133	7.133	(0.885)	572845	6.60897	442.0713
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	521368	5.89043	394.0088
19 Chrysene	228	8.074	8.074	(1.002)	539253	6.05123	404.7646
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	508898	7.11334	475.8086
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.959)	438187	5.48391	366.8169
22 Benzo(a)pyrene	252	9.327	9.327	(0.993)	375837	5.23764	350.3438
24 Indeno(1,2,3-cd)pyrene	276	10.768	10.768	(1.147)	386190	5.11737	342.2990(M)
25 Dibenzo(a,h)anthracene	278	10.792	10.786	(1.149)	356106	5.72983	383.2662
26 Benzo(g,h,i)perylene	276	11.186	11.186	(1.191)	394012	5.82466	389.6090

QC Flag Legend

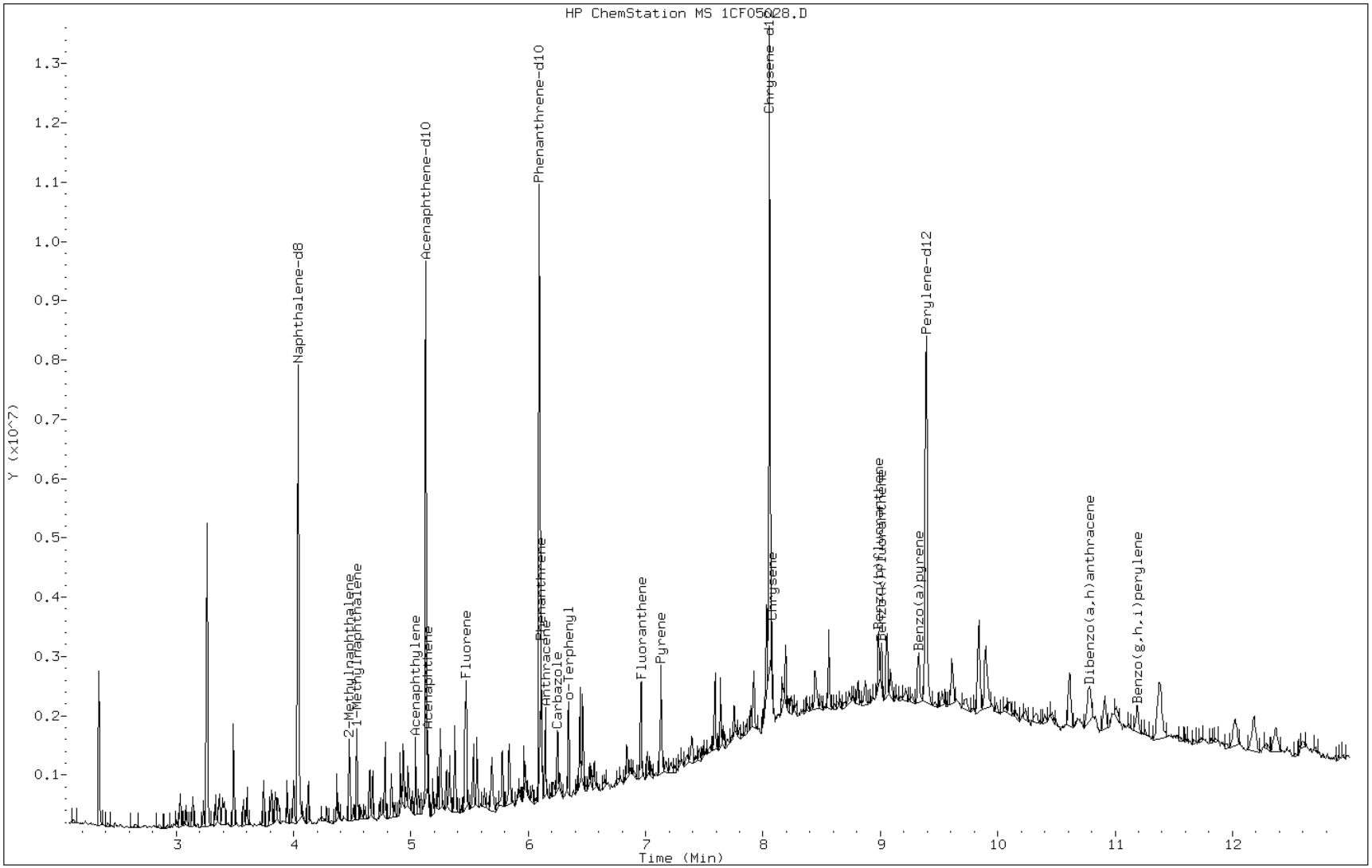
M - Compound response manually integrated.

Data File: 1CF05028.D

Date: 05-JUN-2013 20:07

Client ID: Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-b ms Operator: SCC



Manual Integration Report

Data File: 1CF05028.D
Inj. Date and Time: 05-JUN-2013 20:07
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

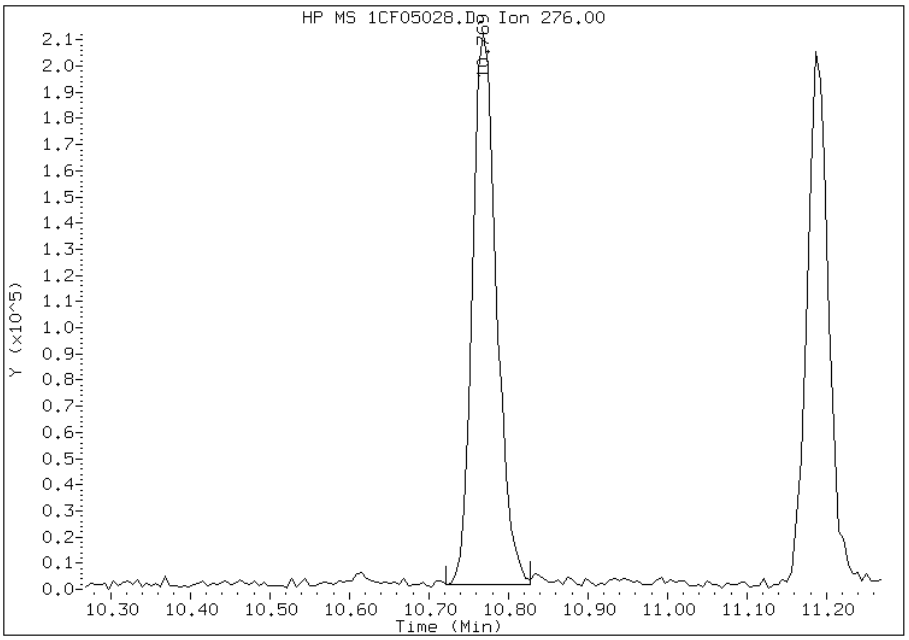
Processing Integration Results

RT: 10.77

Response: 442236

Amount: 6

Conc: 390



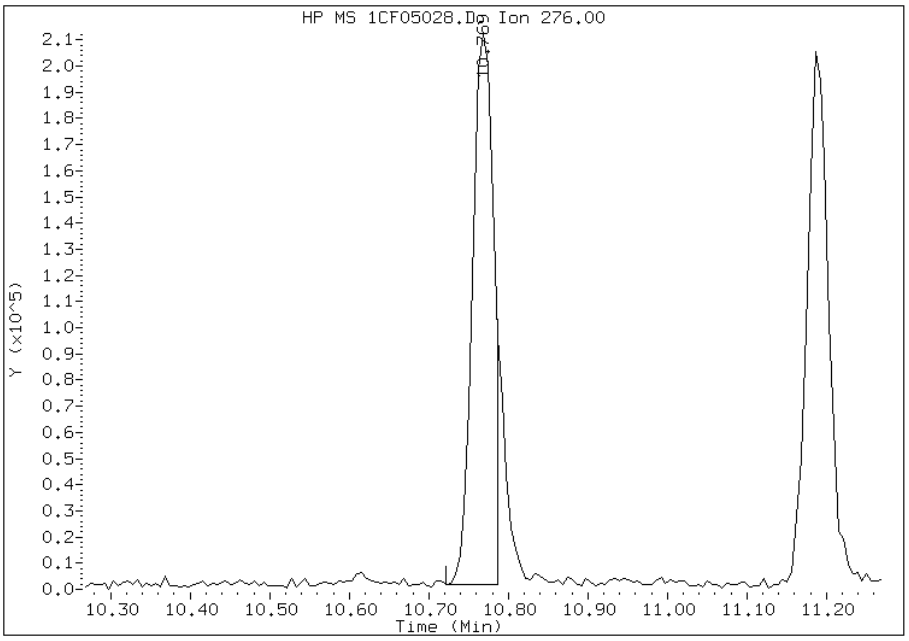
Manual Integration Results

RT: 10.77

Response: 386190

Amount: 5

Conc: 342



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV1015A-CS MS | Lab Sample ID: 680-90723-24 MS

Matrix: Solid | Lab File ID: 1CF04035.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 13:45

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.35(g) | Date Analyzed: 06/04/2013 20:41

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

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

% Moisture: 26.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138098 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	374		130	27
208-96-8	Acenaphthylene	300		53	6.6
120-12-7	Anthracene	338		11	5.6
56-55-3	Benzo[a]anthracene	596		11	5.2
50-32-8	Benzo[a]pyrene	467		14	6.9
205-99-2	Benzo[b]fluoranthene	734		16	8.1
191-24-2	Benzo[g,h,i]perylene	380		27	5.8
207-08-9	Benzo[k]fluoranthene	437		11	4.8
218-01-9	Chrysene	623		12	6.0
53-70-3	Dibenz(a,h)anthracene	367		27	5.4
206-44-0	Fluoranthene	646		27	5.3
86-73-7	Fluorene	378		27	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	335		27	9.4
90-12-0	1-Methylnaphthalene	446		53	5.8
91-57-6	2-Methylnaphthalene	469		53	9.4
91-20-3	Naphthalene	430		53	5.8
85-01-8	Phenanthrene	589		11	5.2
129-00-0	Pyrene	673		27	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	37		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04035.D
Lab Smp Id: 680-90723-a-24-b ms
Inj Date : 04-JUN-2013 20:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-24-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 35 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	4.045	4.045	(1.000)	2586644	40.0000	
* 6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1766691	40.0000	
* 10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3154823	40.0000	
$ 14 o-Terphenyl	230	6.351	6.351	(1.040)	180645	3.67582	244.4030
* 18 Chrysene-d12	240	8.068	8.068	(1.000)	3223545	40.0000	
* 23 Perylene-d12	264	9.409	9.409	(1.000)	3044054	40.0000	
2 Naphthalene	128	4.057	4.057	(1.003)	354747	4.85989	323.1312
3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	214629	5.30105	352.4635
4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	200594	5.03564	334.8162
5 Acenaphthylene	152	5.045	5.045	(0.983)	229804	3.39308	225.6036(R)
7 Acenaphthene	154	5.151	5.151	(1.003)	179497	4.22628	281.0029
9 Fluorene	166	5.480	5.480	(1.068)	231410	4.27019	283.9219
11 Phenanthrene	178	6.121	6.121	(1.003)	620672	6.65909	442.7583
12 Anthracene	178	6.151	6.157	(1.008)	329939	3.82094	254.0517

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.257	6.257	(1.025)	323405	4.12486	274.2592(R)
15 Fluoranthene	202	6.968	6.968	(1.142)	695303	7.29823	485.2547
16 Pyrene	202	7.145	7.145	(0.886)	661671	7.60142	505.4132
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	598317	6.73116	447.5507
19 Chrysene	228	8.086	8.092	(1.002)	630285	7.04278	468.2699
20 Benzo(b)fluoranthene	252	9.004	9.004	(0.957)	620423	8.29544	551.5583
21 Benzo(k)fluoranthene	252	9.027	9.027	(0.959)	412533	4.93854	328.3602
22 Benzo(a)pyrene	252	9.345	9.345	(0.993)	395983	5.27784	350.9203
24 Indeno(1,2,3-cd)pyrene	276	10.792	10.792	(1.147)	295484	3.78779	251.8480(M)
25 Dibenzo(a,h)anthracene	278	10.809	10.815	(1.149)	269320	4.14514	275.6079
26 Benzo(g,h,i)perylene	276	11.215	11.215	(1.192)	303621	4.29340	285.4653

QC Flag Legend

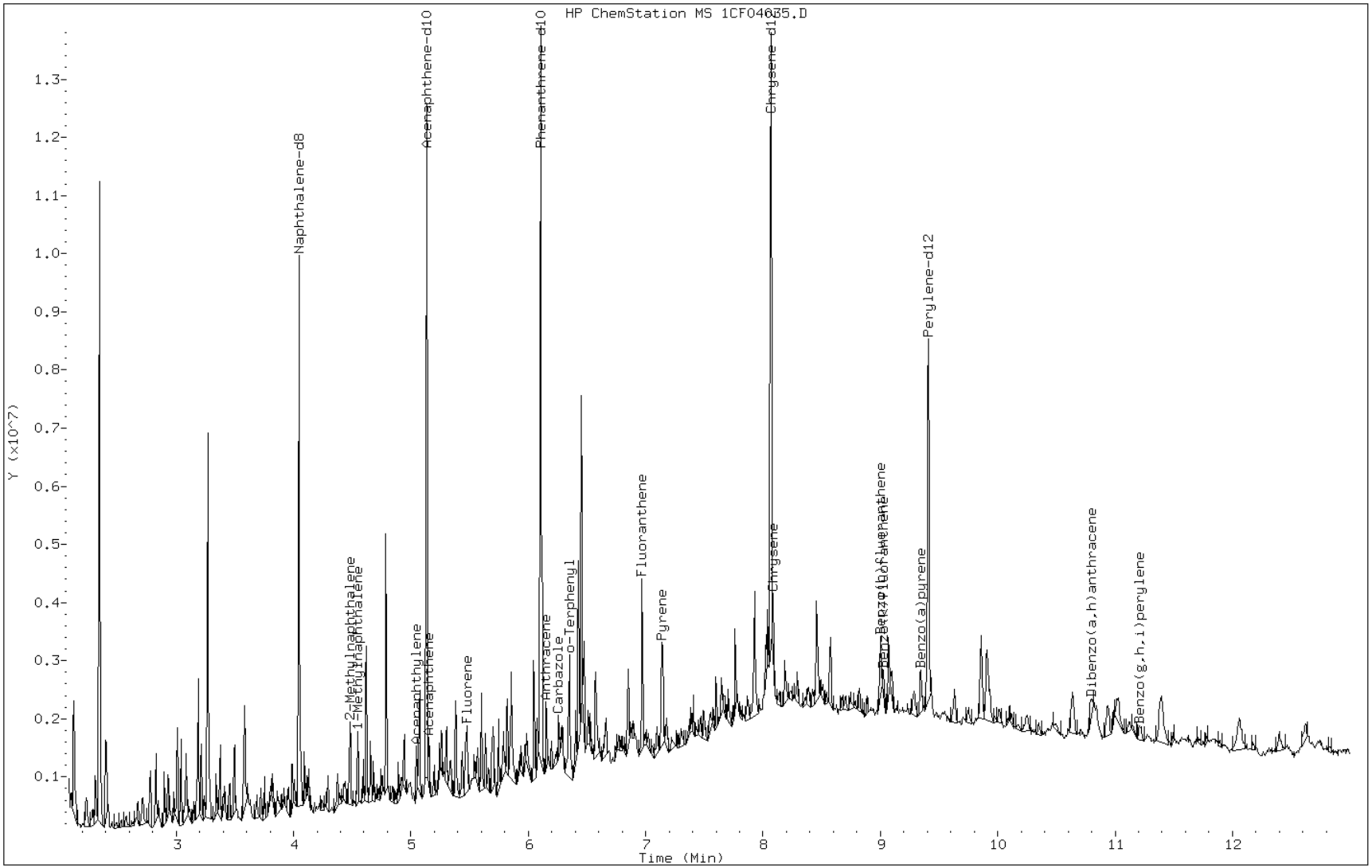
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CF04035.D

Date: 04-JUN-2013 20:41

Client ID: Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-b ms Operator: SCC



Manual Integration Report

Data File: 1CF04035.D
Inj. Date and Time: 04-JUN-2013 20:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

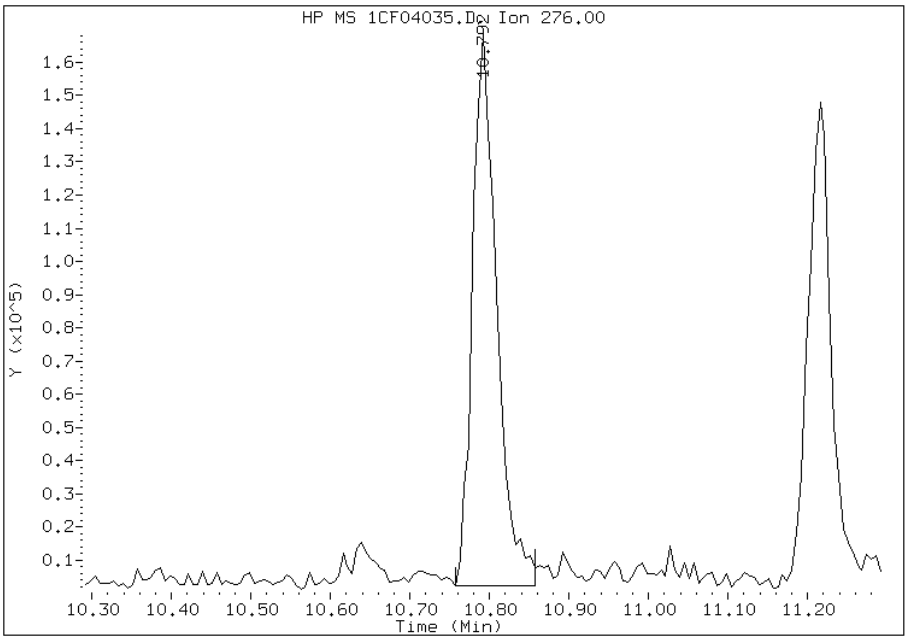
Processing Integration Results

RT: 10.79

Response: 349674

Amount: 4

Conc: 296



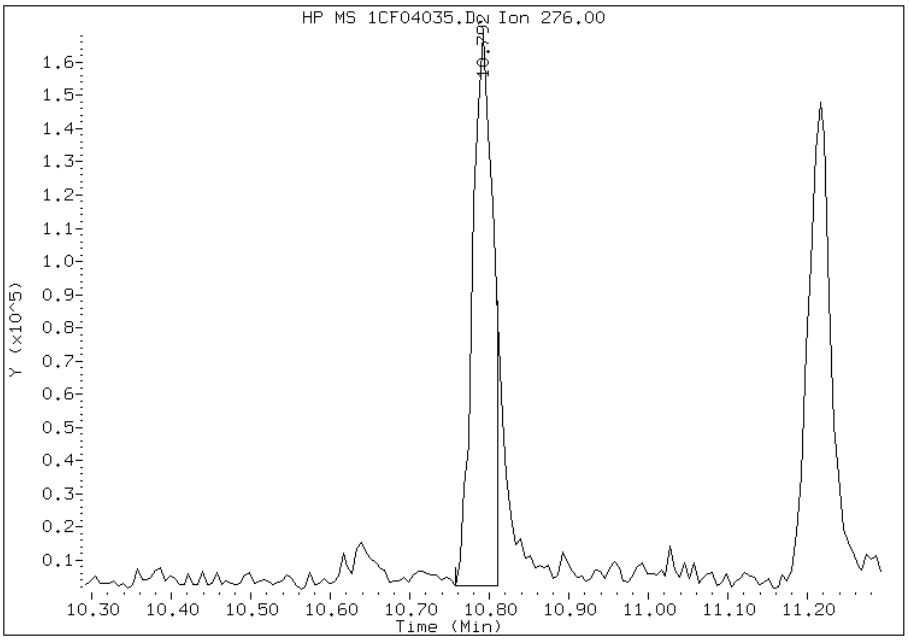
Manual Integration Results

RT: 10.79

Response: 295484

Amount: 4

Conc: 252



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-90723-2
SDG No.: 68090723-2
Client Sample ID:
Lab Sample ID: 680-90852-A-9-C MSD
Matrix: Solid
Lab File ID: 1CF05029.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 06/03/2013 13:04
Sample wt/vol: 14.95(g)
Date Analyzed: 06/05/2013 20:25
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 8.3
GPC Cleanup:(Y/N) N
Analysis Batch No.: 138101
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	399		110	22
208-96-8	Acenaphthylene	442		44	5.5
120-12-7	Anthracene	447		9.2	4.6
56-55-3	Benzo[a]anthracene	479		8.7	4.3
50-32-8	Benzo[a]pyrene	434		11	5.7
205-99-2	Benzo[b]fluoranthene	537		13	6.7
191-24-2	Benzo[g,h,i]perylene	487		22	4.8
207-08-9	Benzo[k]fluoranthene	461		8.7	3.9
218-01-9	Chrysene	499		9.8	4.9
53-70-3	Dibenz(a,h)anthracene	463		22	4.5
206-44-0	Fluoranthene	529		22	4.4
86-73-7	Fluorene	439		22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	413		22	7.8
90-12-0	1-Methylnaphthalene	465		44	4.8
91-57-6	2-Methylnaphthalene	514		44	7.8
91-20-3	Naphthalene	364		44	4.8
85-01-8	Phenanthrene	502		8.7	4.3
129-00-0	Pyrene	498		22	4.0

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05029.D
Lab Smp Id: 680-90852-a-9-c msd
Inj Date : 05-JUN-2013 20:25
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90852-a-9-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 29 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	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	4.039	4.039	(1.000)	2239395	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1640510	40.0000	
* 10 Phenanthrene-d10	188	6.092	6.092	(1.000)	3027304	40.0000	
$ 14 o-Terphenyl	230	6.345	6.345	(1.042)	271279	5.75259	384.7888
* 18 Chrysene-d12	240	8.056	8.056	(1.000)	3579574	40.0000	
* 23 Perylene-d12	264	9.392	9.392	(1.000)	3250006	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	315253	4.98854	333.6814
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	247156	7.05100	471.6388
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	220081	6.38153	426.8582
5 Acenaphthylene	152	5.039	5.039	(0.983)	381580	6.06742	405.8471
7 Acenaphthene	154	5.145	5.145	(1.003)	216067	5.47863	366.4632
9 Fluorene	166	5.468	5.468	(1.067)	303256	6.02637	403.1016
11 Phenanthrene	178	6.110	6.110	(1.003)	615522	6.88201	460.3348
12 Anthracene	178	6.145	6.145	(1.009)	507490	6.12467	409.6771

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.251	6.251	(1.026)	437187	5.76403	385.5537
15 Fluoranthene	202	6.962	6.962	(1.143)	663566	7.25850	485.5181
16 Pyrene	202	7.133	7.133	(0.885)	659576	6.82370	456.4344
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	648230	6.56735	439.2878
19 Chrysene	228	8.080	8.074	(1.003)	680044	6.84300	457.7257
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	588488	7.36983	492.9649
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.959)	564066	6.32467	423.0547
22 Benzo(a)pyrene	252	9.327	9.327	(0.993)	477710	5.95056	398.0306
24 Indeno(1,2,3-cd)pyrene	276	10.768	10.768	(1.147)	479184	5.67116	379.3419(M)
25 Dibenzo(a,h)anthracene	278	10.792	10.786	(1.149)	440598	6.35158	424.8548
26 Benzo(g,h,i)perylene	276	11.192	11.186	(1.192)	504809	6.68597	447.2223

QC Flag Legend

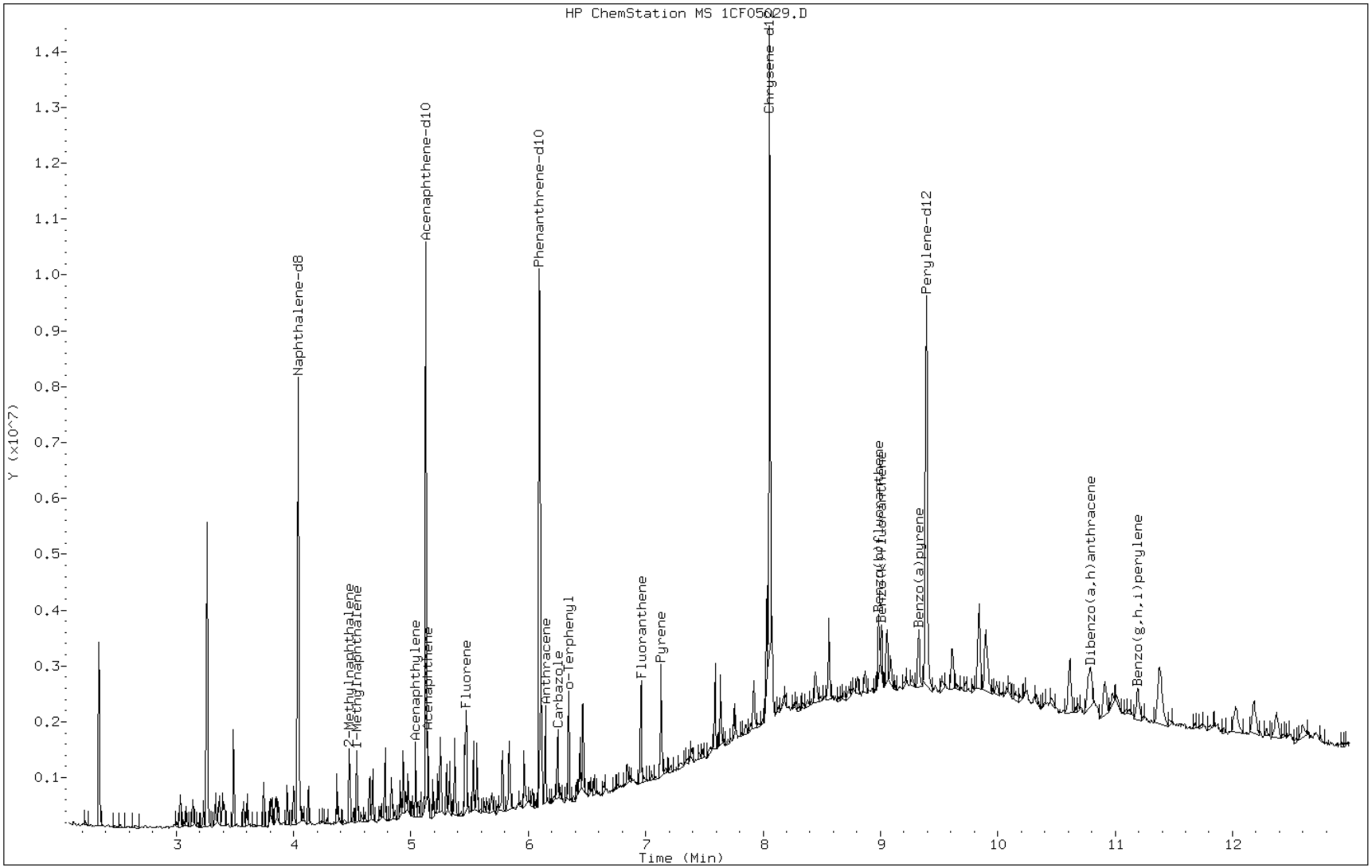
M - Compound response manually integrated.

Data File: 1CF05029.D

Date: 05-JUN-2013 20:25

Client ID: Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-c msd Operator: SCC



Manual Integration Report

Data File: 1CF05029.D
Inj. Date and Time: 05-JUN-2013 20:25
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

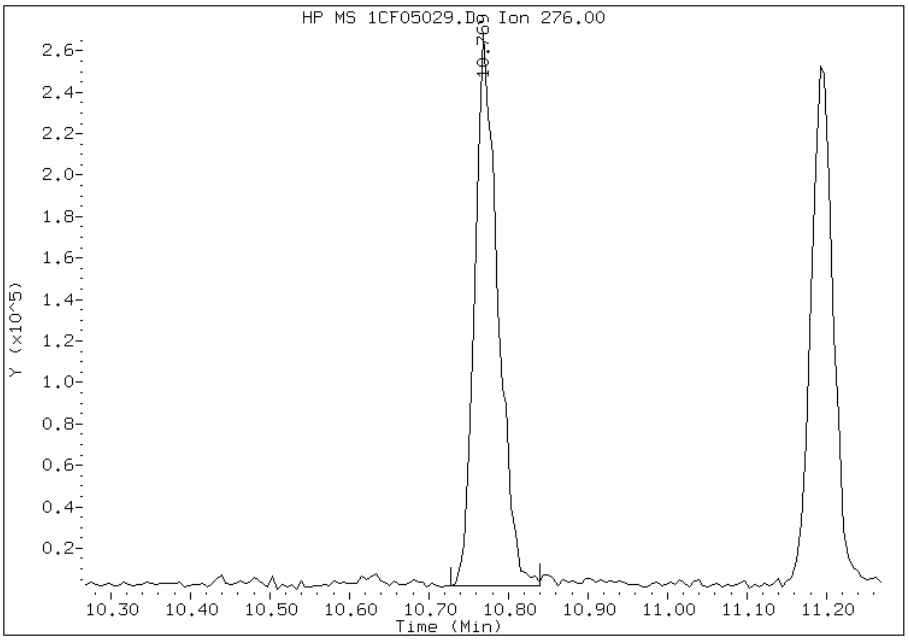
Processing Integration Results

RT: 10.77

Response: 540896

Amount: 6

Conc: 427



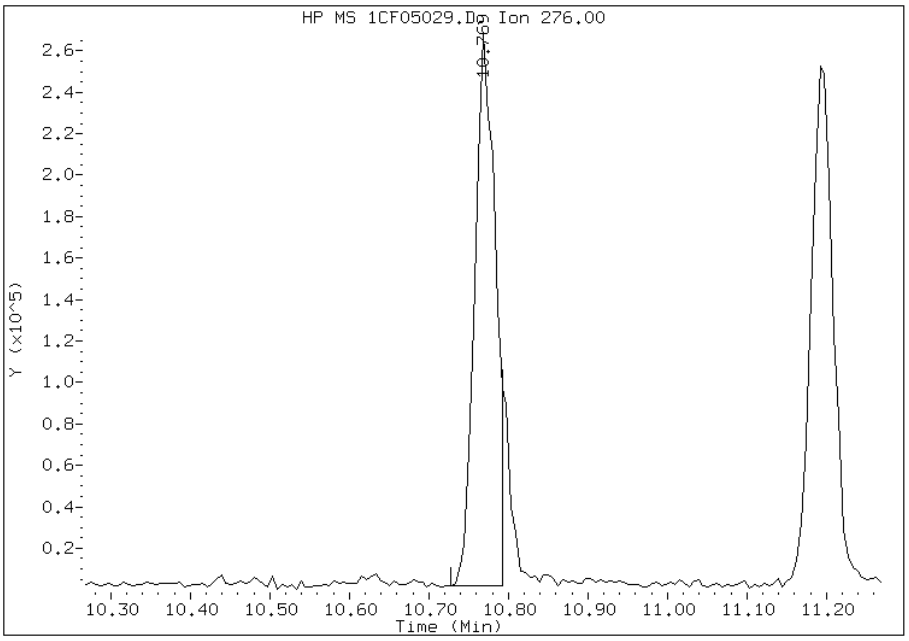
Manual Integration Results

RT: 10.77

Response: 479184

Amount: 6

Conc: 379



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 13:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-2

SDG No.: 68090723-2

Client Sample ID: CV1015A-CS MSD | Lab Sample ID: 680-90723-24 MSD

Matrix: Solid | Lab File ID: 1CF04036.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 13:45

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.35(g) | Date Analyzed: 06/04/2013 20:59

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

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

% Moisture: 26.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138098 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	387		130	27
208-96-8	Acenaphthylene	376		53	6.6
120-12-7	Anthracene	399		11	5.6
56-55-3	Benzo[a]anthracene	678		11	5.2
50-32-8	Benzo[a]pyrene	534		14	6.9
205-99-2	Benzo[b]fluoranthene	862		16	8.1
191-24-2	Benzo[g,h,i]perylene	399		27	5.8
207-08-9	Benzo[k]fluoranthene	511		11	4.8
218-01-9	Chrysene	740		12	6.0
53-70-3	Dibenz(a,h)anthracene	360		27	5.4
206-44-0	Fluoranthene	865		27	5.3
86-73-7	Fluorene	416		27	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	376		27	9.4
90-12-0	1-Methylnaphthalene	485		53	5.8
91-57-6	2-Methylnaphthalene	527		53	9.4
91-20-3	Naphthalene	494		53	5.8
85-01-8	Phenanthrene	686		11	5.2
129-00-0	Pyrene	874		27	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	42		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04036.D
Lab Smp Id: 680-90723-a-24-d ms
Inj Date : 04-JUN-2013 20:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-24-d msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 36 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	4.045	4.045	(1.000)	2605247	40.0000	
* 6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1722476	40.0000	
* 10 Phenanthrene-d10	188	6.104	6.104	(1.000)	2880956	40.0000	
$ 14 o-Terphenyl	230	6.351	6.351	(1.040)	189332	4.21882	280.5066
* 18 Chrysene-d12	240	8.068	8.068	(1.000)	2967941	40.0000	
* 23 Perylene-d12	264	9.403	9.409	(1.000)	3072963	40.0000	
2 Naphthalene	128	4.057	4.057	(1.003)	410114	5.57828	370.8964
3 2-Methylnaphthalene	142	4.486	4.480	(1.109)	242560	5.94813	395.4875
4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	219609	5.47362	363.9372
5 Acenaphthylene	152	5.045	5.045	(0.983)	280727	4.25136	282.6702
7 Acenaphthene	154	5.151	5.151	(1.003)	180861	4.36771	290.4062
9 Fluorene	166	5.480	5.480	(1.068)	248487	4.70301	312.7000
11 Phenanthrene	178	6.121	6.121	(1.003)	659555	7.74893	515.2215
12 Anthracene	178	6.151	6.157	(1.008)	355162	4.50403	299.4701

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.257	6.257	(1.025)	326074	4.54230	302.0143(R)
15 Fluoranthene	202	6.968	6.968	(1.142)	850155	9.77192	649.7289
16 Pyrene	202	7.145	7.145	(0.886)	791015	9.86996	656.2476
17 Benzo(a)anthracene	228	8.056	8.062	(0.999)	626491	7.65512	508.9841
19 Chrysene	228	8.086	8.092	(1.002)	688351	8.35402	555.4535
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	735384	9.74004	647.6088
21 Benzo(k)fluoranthene	252	9.027	9.027	(0.960)	487138	5.77679	384.0951
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	457750	6.02908	400.8698
24 Indeno(1,2,3-cd)pyrene	276	10.792	10.792	(1.148)	336453	4.25213	282.7214(M)
25 Dibenzo(a,h)anthracene	278	10.815	10.815	(1.150)	266936	4.06980	270.5984
26 Benzo(g,h,i)perylene	276	11.215	11.215	(1.193)	322109	4.51198	299.9987

QC Flag Legend

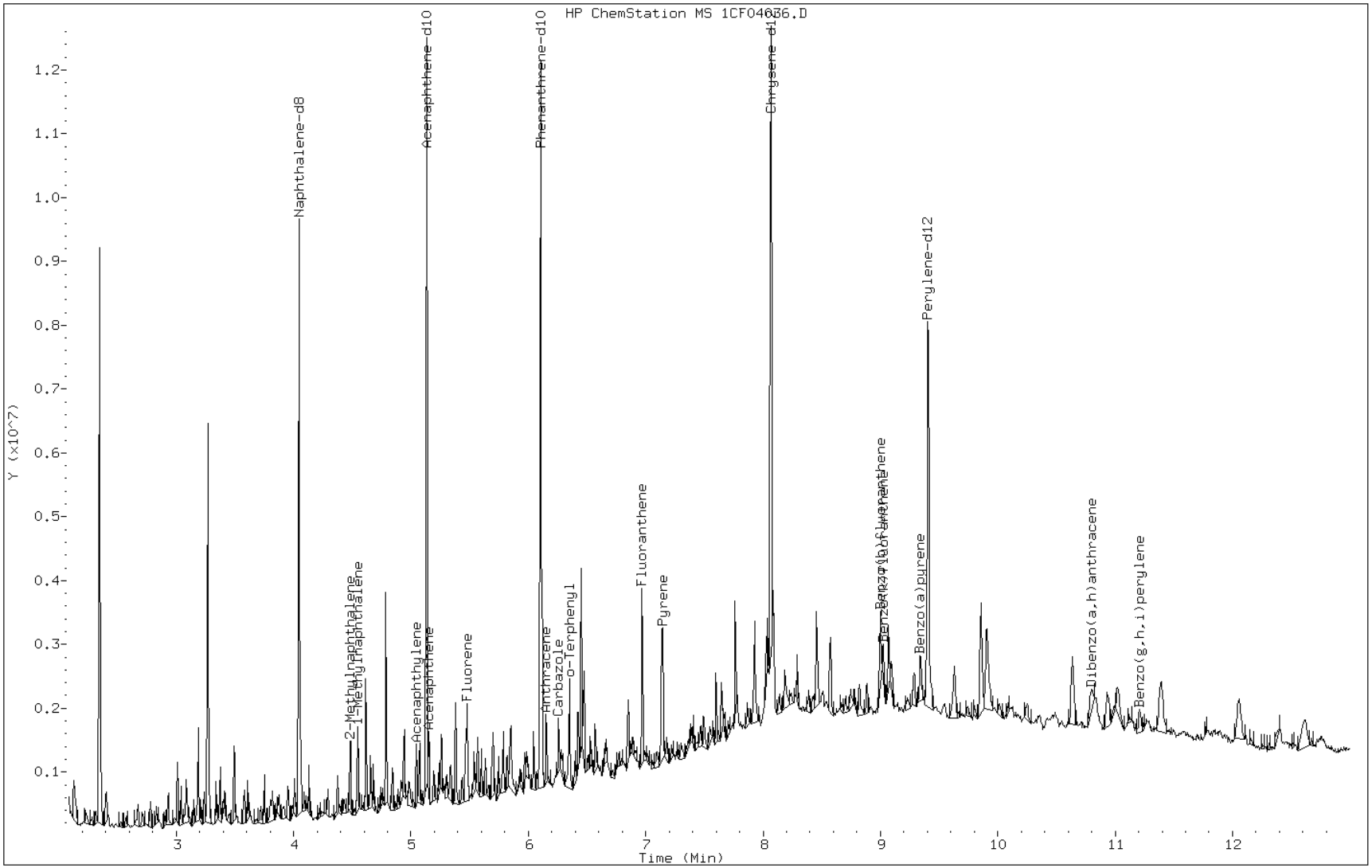
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CF04036.D

Date: 04-JUN-2013 20:59

Client ID: Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-d msd Operator: SCC



Manual Integration Report

Data File: 1CF04036.D
Inj. Date and Time: 04-JUN-2013 20:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

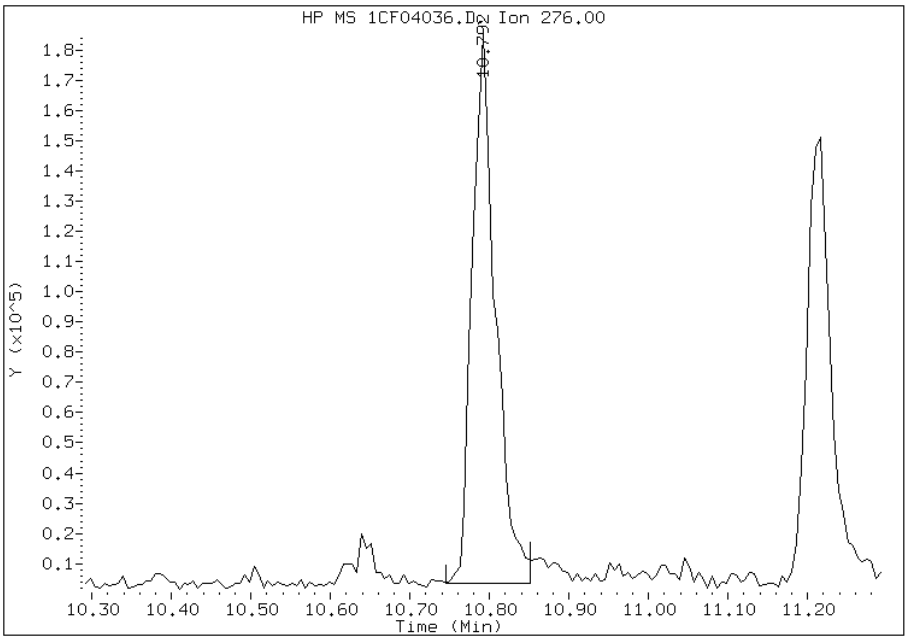
Processing Integration Results

RT: 10.79

Response: 371358

Amount: 5

Conc: 311



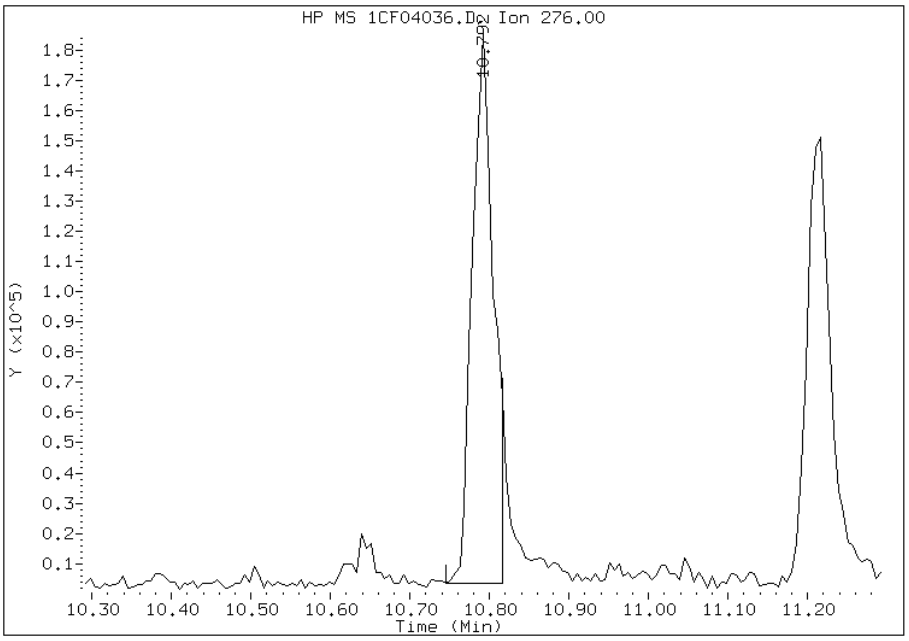
Manual Integration Results

RT: 10.79

Response: 336453

Amount: 4

Conc: 283



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:53
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Instrument ID: BSMC5973 Start Date: 05/22/2013 09:37

Analysis Batch Number: 137704 End Date: 05/22/2013 22:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/22/2013 09:37	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 10:04	1		DB-5MS 250(um)
DFTPP 660-137704/2		05/22/2013 10:24	1	1CE22002.D	DB-5MS 250(um)
CCVIS 660-137704/3		05/22/2013 10:41	1		DB-5MS 250(um)
CCV 660-137704/4		05/22/2013 11:07	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 11:28	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 11:49	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 12:09	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 12:30	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 12:51	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 13:11	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 13:32	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 13:53	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 15:57	1		DB-5MS 250(um)
IC 660-137704/15		05/22/2013 16:16	1	1CE22014.D	DB-5MS 250(um)
IC 660-137704/16		05/22/2013 16:34	1	1CE22015.D	DB-5MS 250(um)
IC 660-137704/17		05/22/2013 16:52	1	1CE22016.D	DB-5MS 250(um)
IC 660-137704/18		05/22/2013 17:10	1	1CE22017.D	DB-5MS 250(um)
ICIS 660-137704/19		05/22/2013 17:29	1	1CE22018.D	DB-5MS 250(um)
IC 660-137704/20		05/22/2013 17:47	1	1CE22019.D	DB-5MS 250(um)
IC 660-137704/21		05/22/2013 18:05	1	1CE22020.D	DB-5MS 250(um)
ICV 660-137704/22		05/22/2013 18:24	1	1CE22021.D	DB-5MS 250(um)
ZZZZZ		05/22/2013 18:42	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 19:00	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 19:19	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 19:37	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 19:55	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 20:13	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 20:32	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 20:50	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 21:08	4		DB-5MS 250(um)
ZZZZZ		05/22/2013 21:27	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 21:45	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 22:03	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Instrument ID: BSMC5973 Start Date: 06/04/2013 09:41

Analysis Batch Number: 138098 End Date: 06/04/2013 20:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/04/2013 09:41	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 10:02	1		DB-5MS 250(um)
DFTPP 660-138098/2		06/04/2013 10:20	1	1CF04002.D	DB-5MS 250(um)
CCVIS 660-138098/3		06/04/2013 10:50	1	1CF04003.D	DB-5MS 250(um)
ZZZZZ		06/04/2013 11:13	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 11:31	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 11:50	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 12:08	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 12:26	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 12:44	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 13:03	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 13:21	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 13:39	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 13:58	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 14:16	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 14:34	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 14:53	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 15:11	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 15:29	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 15:48	4		DB-5MS 250(um)
MB 660-137991/1-A		06/04/2013 16:06	1	1CF04020.D	DB-5MS 250(um)
LCS 660-137991/2-A		06/04/2013 16:24	1	1CF04021.D	DB-5MS 250(um)
ZZZZZ		06/04/2013 16:43	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 17:01	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 17:19	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 17:38	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 17:56	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 18:14	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 18:33	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 18:51	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 19:09	4		DB-5MS 250(um)
680-90723-21	CV1014A-CS	06/04/2013 19:27	1	1CF04031.D	DB-5MS 250(um)
680-90723-22	CV1014A-CSD	06/04/2013 19:46	1	1CF04032.D	DB-5MS 250(um)
ZZZZZ		06/04/2013 20:04	4		DB-5MS 250(um)
680-90723-24	CV1015A-CS	06/04/2013 20:22	1	1CF04034.D	DB-5MS 250(um)
680-90723-24 MS	CV1015A-CS MS	06/04/2013 20:41	1	1CF04035.D	DB-5MS 250(um)
680-90723-24 MSD	CV1015A-CS MSD	06/04/2013 20:59	1	1CF04036.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Instrument ID: BSMC5973 Start Date: 06/05/2013 10:31

Analysis Batch Number: 138101 End Date: 06/06/2013 00:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/05/2013 10:31	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 10:50	1		DB-5MS 250(um)
DFTPP 660-138101/2		06/05/2013 11:08	1	1CF05002.D	DB-5MS 250(um)
CCVIS 660-138101/3		06/05/2013 11:24	1	1CF05003.D	DB-5MS 250(um)
ZZZZZ		06/05/2013 11:43	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 12:01	1		DB-5MS 250(um)
680-90723-25	CV1015B-CS	06/05/2013 12:20	1	1CF05006.D	DB-5MS 250(um)
680-90723-26	CV1111A-CS	06/05/2013 12:39	1	1CF05007.D	DB-5MS 250(um)
680-90723-27	CV0315A-CS	06/05/2013 12:57	1	1CF05008.D	DB-5MS 250(um)
680-90723-28	CV0315B-CS	06/05/2013 13:16	1	1CF05009.D	DB-5MS 250(um)
680-90723-29	CV1164A-CS	06/05/2013 13:34	4	1CF05010.D	DB-5MS 250(um)
680-90723-30	CV1164B-CS	06/05/2013 13:52	4	1CF05011.D	DB-5MS 250(um)
680-90723-31	CV1164C-CS	06/05/2013 14:11	4	1CF05012.D	DB-5MS 250(um)
680-90723-23	CV1014B-CS	06/05/2013 14:41	4	1CF05013.D	DB-5MS 250(um)
ZZZZZ		06/05/2013 15:00	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 15:18	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 16:27	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 16:45	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 17:03	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 17:22	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 17:40	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 17:59	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 18:17	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 18:35	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 18:54	1		DB-5MS 250(um)
MB 660-137999/1-A		06/05/2013 19:12	1	1CF05025.D	DB-5MS 250(um)
LCS 660-137999/2-A		06/05/2013 19:30	1	1CF05026.D	DB-5MS 250(um)
ZZZZZ		06/05/2013 19:49	1		DB-5MS 250(um)
680-90852-A-9-B MS		06/05/2013 20:07	1	1CF05028.D	DB-5MS 250(um)
680-90852-A-9-C MSD		06/05/2013 20:25	1	1CF05029.D	DB-5MS 250(um)
680-90723-32	CV1301A-CS	06/05/2013 20:44	1	1CF05030.D	DB-5MS 250(um)
680-90723-33	CV1301B-CS	06/05/2013 21:02	4	1CF05031.D	DB-5MS 250(um)
680-90723-34	CV1242A-CS	06/05/2013 21:20	4	1CF05032.D	DB-5MS 250(um)
680-90723-35	CV1242A-CSD	06/05/2013 21:39	4	1CF05033.D	DB-5MS 250(um)
680-90723-36	CV1242B-CS	06/05/2013 21:57	4	1CF05034.D	DB-5MS 250(um)
680-90723-37	CV1242C-CS	06/05/2013 22:16	4	1CF05035.D	DB-5MS 250(um)
680-90723-38	HP0331A-CS-SP	06/05/2013 22:34	4	1CF05036.D	DB-5MS 250(um)
680-90723-39	HP0332A-CS-SP	06/05/2013 22:52	4	1CF05037.D	DB-5MS 250(um)
ZZZZZ		06/05/2013 23:11	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 23:29	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 23:47	4		DB-5MS 250(um)
ZZZZZ		06/06/2013 00:06	1		DB-5MS 250(um)
ZZZZZ		06/06/2013 00:24	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

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.: 680-90723-2

SDG No.: 68090723-2

Instrument ID: BSMD5973 Start Date: 06/06/2013 11:18

Analysis Batch Number: 138163 End Date: 06/06/2013 19:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/06/2013 11:18	1		DB-5MS 250(um)
ZZZZZ		06/06/2013 11:41	1		DB-5MS 250(um)
DFTPP 660-138163/2		06/06/2013 12:05	1	1DF06002.D	DB-5MS 250(um)
CCVIS 660-138163/3		06/06/2013 12:28	1		DB-5MS 250(um)
CCVIS 660-138163/4		06/06/2013 12:56	1	1DF06004.D	DB-5MS 250(um)
ZZZZZ		06/06/2013 13:19	1		DB-5MS 250(um)
ZZZZZ		06/06/2013 13:42	1		DB-5MS 250(um)
ZZZZZ		06/06/2013 14:04	1		DB-5MS 250(um)
ZZZZZ		06/06/2013 14:27	1		DB-5MS 250(um)
680-90723-40	HP0332B-CS-SP	06/06/2013 14:50	4	1DF06009.D	DB-5MS 250(um)
ZZZZZ		06/06/2013 16:43	1		DB-5MS 250(um)
ZZZZZ		06/06/2013 17:10	1		DB-5MS 250(um)
ZZZZZ		06/06/2013 17:33	1		DB-5MS 250(um)
ZZZZZ		06/06/2013 17:56	1		DB-5MS 250(um)
ZZZZZ		06/06/2013 18:18	1		DB-5MS 250(um)
ZZZZZ		06/06/2013 18:41	1		DB-5MS 250(um)
ZZZZZ		06/06/2013 19:03	1		DB-5MS 250(um)
ZZZZZ		06/06/2013 19:26	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Batch Number: 137991 Batch Start Date: 06/03/13 10:11 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 06/03/13 16:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00182		
MB 660-137991/1		3546, 8270C LL		15.01 g	1 mL		1 mL		
LCS 660-137991/2		3546, 8270C LL		15.06 g	1 mL	1 mL	1 mL		
680-90723-A-21	CV1014A-CS	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-90723-A-22	CV1014A-CSD	3546, 8270C LL	T	15.17 g	1 mL		1 mL		
680-90723-A-23	CV1014B-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-90723-A-24	CV1015A-CS	3546, 8270C LL	T	15.35 g	1 mL		1 mL		
680-90723-A-24 MS	CV1015A-CS	3546, 8270C LL	T	15.35 g	1 mL	1 mL	1 mL		
680-90723-A-24 MSD	CV1015A-CS	3546, 8270C LL	T	15.35 g	1 mL	1 mL	1 mL		
680-90723-A-25	CV1015B-CS	3546, 8270C LL	T	15.08 g	1 mL		1 mL		
680-90723-A-26	CV1111A-CS	3546, 8270C LL	T	15.08 g	1 mL		1 mL		
680-90723-A-27	CV0315A-CS	3546, 8270C LL	T	15.08 g	1 mL		1 mL		
680-90723-A-28	CV0315B-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-90723-A-29	CV1164A-CS	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-90723-A-30	CV1164B-CS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-90723-A-31	CV1164C-CS	3546, 8270C LL	T	15.07 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.: 680-90723-2

SDG No.: 68090723-2

Batch Number: 137991 Batch Start Date: 06/03/13 10:11 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 06/03/13 16:25

Batch Notes	
Acetone Lot #	EX-ACETON BOT 53
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	Saurel
Exchange Solvent Lot #	EX-MC CYCL 58
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 58
MeCl2/Acetone Lot #	dcm/aceton 84
Microwave Start Time	11:45 6/3/13
Microwave Stop Time	12:20 6/3/13
Na2SO4 Lot Number	EX-NA2S04A 67
Ottawa Sand Lot #	EX-OTTOWA SAND 19
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT 182
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Batch Number: 137999 Batch Start Date: 06/03/13 13:04 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 06/04/13 12:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00182		
MB 660-137999/1		3546, 8270C LL		15.17 g	1 mL		1 mL		
LCS 660-137999/2		3546, 8270C LL		14.95 g	1 mL	1 mL	1 mL		
680-90723-A-32	CV1301A-CS	3546, 8270C LL	T	15.24 g	1 mL		1 mL		
680-90723-A-33	CV1301B-CS	3546, 8270C LL	T	15.03 g	1 mL		1 mL		
680-90723-A-34	CV1242A-CS	3546, 8270C LL	T	15.31 g	1 mL		1 mL		
680-90723-A-35	CV1242A-CSD	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-90723-A-36	CV1242B-CS	3546, 8270C LL	T	15.20 g	1 mL		1 mL		
680-90723-A-37	CV1242C-CS	3546, 8270C LL	T	15.08 g	1 mL		1 mL		
680-90723-A-38	HP0331A-CS-SP	3546, 8270C LL	T	15.14 g	1 mL		1 mL		
680-90723-A-39	HP0332A-CS-SP	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-90723-A-40	HP0332B-CS-SP	3546, 8270C LL	T	15.23 g	1 mL		1 mL		
680-90852-A-9 MS		3546, 8270C LL	T	14.95 g	1 mL	1 mL	1 mL		
680-90852-A-9 MSD		3546, 8270C LL	T	14.95 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.: 680-90723-2

SDG No.: 68090723-2

Batch Number: 137999 Batch Start Date: 06/03/13 13:04 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 06/04/13 12:00

Batch Notes	
Acetone Lot #	EX-ACETON BOT 53
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	ryan
Exchange Solvent Lot #	EX-MC CYCL 58
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 58
MeCl2/Acetone Lot #	ex-dcm/aceton 85
Microwave Start Time	14:30 6/3/13
Microwave Stop Time	15:05 6/3/13
Na2SO4 Lot Number	EX-NA2S04A 67
Ottawa Sand Lot #	EX-OTTOWA SAND 19
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT 182
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90723-2

SDG No.: 68090723-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV1014A-CS	680-90723-21
CV1014A-CSD	680-90723-22
CV1014B-CS	680-90723-23
CV1015A-CS	680-90723-24
CV1015B-CS	680-90723-25
CV1111A-CS	680-90723-26
CV0315A-CS	680-90723-27
CV0315B-CS	680-90723-28
CV1164A-CS	680-90723-29
CV1164B-CS	680-90723-30
CV1164C-CS	680-90723-31
CV1301A-CS	680-90723-32
CV1301B-CS	680-90723-33
CV1242A-CS	680-90723-34
CV1242A-CSD	680-90723-35
CV1242B-CS	680-90723-36
CV1242C-CS	680-90723-37
HP0331A-CS-SP	680-90723-38
HP0332A-CS-SP	680-90723-39
HP0332B-CS-SP	680-90723-40

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90723-2

SDG Number: 68090723-2

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: 680-90723-2

SDG Number: 68090723-2

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: 680-90723-2

SDG Number: 68090723-2

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: 680-90723-2

SDG Number: 68090723-2

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.: 680-90723-2

SDG No.: 68090723-2

Instrument ID: Moisture Method: Moisture

Start Date: 05/29/2013 06:13 End Date: 05/29/2013 08:13

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-137856/17	1	T	06:13	X																			
LCS 660-137856/1	1	T	06:13	X																			
ZZZZZZ			06:22																				
ZZZZZZ			06:31																				
ZZZZZZ			06:37																				
ZZZZZZ			06:37																				
ZZZZZZ			06:43																				
ZZZZZZ			06:53																				
ZZZZZZ			06:59																				
ZZZZZZ			07:12																				
ZZZZZZ			07:14																				
ZZZZZZ			07:32																				
ZZZZZZ			07:33																				
ZZZZZZ			07:49																				
680-90723-40	1	T	07:53	X																			
680-90723-39	1	T	08:08	X																			
680-90723-38	1	T	08:13	X																			

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/29/2013 06:47 End Date: 05/29/2013 06:47

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			06:47																				
ZZZZZZ			06:47																				
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ZZZZZZ			06:47																				
ZZZZZZ			06:47																				
680-90723-A-1 MS	1	T	06:47	X																			
680-90723-A-1 MSD	1	T	06:47	X																			
ZZZZZZ			06:47																				
ZZZZZZ			06:47																				
ZZZZZZ			06:47																				
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ZZZZZZ			06:47																				
680-90723-21	1	T	06:47	X																			
680-90723-22	1	T	06:47	X																			
680-90723-23	1	T	06:47	X																			
680-90723-24	1	T	06:47	X																			
680-90723-24 MS	1	T	06:47	X																			
680-90723-24 MSD	1	T	06:47	X																			
680-90723-25	1	T	06:47	X																			
680-90723-26	1	T	06:47	X																			
680-90723-27	1	T	06:47	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/29/2013 06:47 End Date: 05/29/2013 06:47

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
680-90723-28	1	T	06:47	X																			
680-90723-29	1	T	06:47	X																			
680-90723-30	1	T	06:47	X																			
680-90723-31	1	T	06:47	X																			
680-90723-32	1	T	06:47	X																			
680-90723-33	1	T	06:47	X																			
680-90723-34	1	T	06:47	X																			
680-90723-35	1	T	06:47	X																			
680-90723-36	1	T	06:47	X																			
680-90723-37	1	T	06:47	X																			
ZZZZZZ			06:47																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Batch Number: 137846 Batch Start Date: 05/29/13 06:47 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-90723-A-1 MS		Moisture	T	12	0 g	4.81 g	3.88 g		
680-90723-A-1 MSD		Moisture	T	12	0 g	4.81 g	3.88 g		
680-90723-A-21	CV1014A-CS	Moisture	T	32	0 g	4.70 g	3.32 g		
680-90723-A-22	CV1014A-CSD	Moisture	T	33	0 g	4.28 g	3.61 g		
680-90723-A-23	CV1014B-CS	Moisture	T	34	0 g	4.52 g	3.77 g		
680-90723-A-24	CV1015A-CS	Moisture	T	35	0 g	4.62 g	3.40 g		
680-90723-A-24 MS	CV1015A-CS	Moisture	T	35	0 g	4.62 g	3.40 g		
680-90723-A-24 MSD	CV1015A-CS	Moisture	T	35	0 g	4.62 g	3.40 g		
680-90723-A-25	CV1015B-CS	Moisture	T	36	0 g	4.43 g	3.18 g		
680-90723-A-26	CV1111A-CS	Moisture	T	37	0 g	5.11 g	4.23 g		
680-90723-A-27	CV0315A-CS	Moisture	T	38	0 g	4.64 g	3.72 g		
680-90723-A-28	CV0315B-CS	Moisture	T	39	0 g	4.62 g	3.83 g		
680-90723-A-29	CV1164A-CS	Moisture	T	40	0 g	4.18 g	3.42 g		
680-90723-A-30	CV1164B-CS	Moisture	T	41	0 g	4.43 g	3.82 g		
680-90723-A-31	CV1164C-CS	Moisture	T	42	0 g	4.53 g	3.76 g		
680-90723-A-32	CV1301A-CS	Moisture	T	43	0 g	4.86 g	4.19 g		
680-90723-A-33	CV1301B-CS	Moisture	T	44	0 g	4.52 g	3.72 g		
680-90723-A-34	CV1242A-CS	Moisture	T	45	0 g	4.83 g	3.81 g		
680-90723-A-35	CV1242A-CSD	Moisture	T	46	0 g	4.82 g	3.75 g		
680-90723-A-36	CV1242B-CS	Moisture	T	47	0 g	4.97 g	4.21 g		
680-90723-A-37	CV1242C-CS	Moisture	T	48	0 g	4.81 g	3.99 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	5.29.13

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90723-2

SDG No.: 68090723-2

Batch Number: 137856 Batch Start Date: 05/29/13 06:13 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-137856/1		Moisture		0 g	10.038 g	9.018 g			
680-90723-A-38	HP0331A-CS-SP	Moisture	T	0 g	4.398 g	3.417 g			
680-90723-A-39	HP0332A-CS-SP	Moisture	T	0 g	4.584 g	3.566 g			
680-90723-A-40	HP0332B-CS-SP	Moisture	T	0 g	4.633 g	3.27 g			
LCSD 660-137856/17		Moisture		0 g	10.025 g	9.018 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 64257

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: 680-90723
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE 2 OF 4
35th Ave Removal	2005198-1356	AL	

TAL (LAB) PROJECT MANAGER: (b) (6)

P.O. NUMBER:

CONTRACT NO.:

COMPANY CONTRACTING THIS WORK (if applicable):

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: LL PAH; RCRA Metals

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	RCRA Metals									REMARKS
5-23-13	1015	CV0978C-CS	C		X			X										
	1030	CV0978D-CS	C		X			X										
	1045	CV0978E-CS	C		X			X										
	1100	CV0978F-CS	C		X			X										
	1115	CV0978G-CS	C		X			X	X									
	1130	CV0978H-CS	C		X			X										
	1443	CV1008A-CS	C		X			X										
	1500	CV1008B-CS	C		X			X										
	1323	CV1014A-CS	C		X			X										
	1323	CV1014-A-CSD	C		X			X										
	1334	CV1014B-CS	C		X			X										
	1345	CV1015A-CS	C		X			X										

680-90723-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	5-24-13	1100						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
						[signature]	5/29/13	0745

2.0°C

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	5/25/13	945	YES ○ NO ○		680-90723	

Rel Carol McNulty 5/28/13 1500

TAL8240-680 (1008)

Serial Number 64258

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

Alternate Laboratory Name/Location

Phone:
Fax: 680-90723

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal	20051148-1356	AL	3	4

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: LL PAH; RCRA 8 Metals

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	RCRA 8 Metals	REMARKS
5-23-13	1357	CV1015B-CS	C		X			X		
	1246	CV1111A-CS	C		X			X		
	1445	CV0315A-CS	C		X			X		
	1455	CV0315B-CS	C		X			X		
	1335	CV1164A-CS	C		X			X	X	
	1345	CV1164B-CS	C		X			X		
	1355	CV1164C-CS	C		X			X		
	1300	CV1301A-CS	C		X			X		
	1310	CV1301B-CS	C		X			X		
5-24-13	0835	CV1242A-CS	C		X			X		
	0835	CV1242A-CSD	C		X			X		
	0843	CV1242B-CS	C		X			X		

680-90723-03 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	5-24-13	1100						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
						[signature]	5/28/13	0745

LABORATORY USE ONLY

2.0°C

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	5/25/13	945	YES ○ NO ○		680-90723	

Rel. Carol McNulty 5/28/13 1500

TAL8240-680 (1008)

Serial Number 64259

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: 680-90723
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal	20051148 1356	AL	4	4

TAL (LAB) PROJECT MANAGER: Lisa Harvey

P.O. NUMBER:

CONTRACT NO.:

(b) (6)

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	11 PAH	Rcra 8 Metals								REMARKS
5-24-13	0853	CV 1242C-CS	C		X			X									
	0825	HP 0331A-CS-SP	C		X			X									
	~~0837~~	HP 0332A-CS-SP	C		X			X									
	0840	HP 0332B-CS-SP	C		X			X									
05-23-13	1115	CV 0978G-CS (sieve)	C		X				X								
	1005	CV 1075A-CS (sieve)	C		X				X								
	1335	CV 1164A-CS (sieve)	C		X				X								
	0846	CV 1347B-CS (sieve)	C		X				X								

680-90723-04 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	5-24-13	1100						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
						[signature]	5/29/13	0745

LABORATORY USE ONLY

2.0°C

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	5/25/13	945	YES ○ NO ○		680-90723	

Rpt Carol McNulty 5/28/13 1500

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90723-2
SDG Number: 68090723-2

Login Number: 90723
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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: 680-90723-2
SDG Number: 68090723-2

Login Number: 90723
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 05/28/13 02:03 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: 680-90723-2
TestAmerica Sample Delivery Group: 68090723-2
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:
6/6/2013 9:59:31 PM
Bernard Kirkland, Project Manager I
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Designee for

Lisa Harvey, Project Manager II
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LINKS

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

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

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

Job ID: 680-90723-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90723-2

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 05/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1014A-CS (680-90723-21), CV1014A-CSD (680-90723-22), CV1014B-CS (680-90723-23), CV1015A-CS (680-90723-24), CV1015B-CS (680-90723-25), CV1111A-CS (680-90723-26), CV0315A-CS (680-90723-27), CV0315B-CS (680-90723-28), CV1164A-CS (680-90723-29), CV1164B-CS (680-90723-30), CV1164C-CS (680-90723-31), CV1301A-CS (680-90723-32), CV1301B-CS (680-90723-33), CV1242A-CS (680-90723-34), CV1242A-CSD (680-90723-35), CV1242B-CS (680-90723-36), CV1242C-CS (680-90723 37), HP0331A CS SP (680-90723 38), HP0332A CS SP (680-90723 39) and HP0332B CS-SP (680-90723 40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/03/2013 and analyzed on 06/04/2013, 06/05/2013 and 06/06/2013.

Samples CV1014B-CS (680-90723-23)[4X], CV1164A-CS (680-90723-29)[4X], CV1164B-CS (680-90723-30)[4X], CV1164C-CS (680-90723-31)[4X], CV1301B-CS (680-90723-33)[4X], CV1242A-CS (680-90723-34)[4X], CV1242A-CSD (680-90723-35)[4X], CV1242B-CS (680-90723-36)[4X], CV1242C-CS (680-90723-37)[4X], HP0331A-CS-SP (680-90723-38)[4X], HP0332A-CS-SP (680-90723-39)[4X] and HP0332B-CS-SP (680-90723-40)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1015A-CS (680-90723-24) in batch 660-138098.

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample 680-90852-9 in batch 660-138101.

No other difficulties were encountered during the SVOAs analysis.

All other quality control parameters were within the acceptance limits.

Sample Summary

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90723-21	CV1014A-CS	Solid	05/23/13 13:23	05/25/13 09:45
680-90723-22	CV1014A-CSD	Solid	05/23/13 13:23	05/25/13 09:45
680-90723-23	CV1014B-CS	Solid	05/23/13 13:34	05/25/13 09:45
680-90723-24	CV1015A-CS	Solid	05/23/13 13:45	05/25/13 09:45
680-90723-25	CV1015B-CS	Solid	05/23/13 13:57	05/25/13 09:45
680-90723-26	CV1111A-CS	Solid	05/23/13 12:46	05/25/13 09:45
680-90723-27	CV0315A-CS	Solid	05/23/13 14:45	05/25/13 09:45
680-90723-28	CV0315B-CS	Solid	05/23/13 14:55	05/25/13 09:45
680-90723-29	CV1164A-CS	Solid	05/23/13 13:35	05/25/13 09:45
680-90723-30	CV1164B-CS	Solid	05/23/13 13:45	05/25/13 09:45
680-90723-31	CV1164C-CS	Solid	05/23/13 13:55	05/25/13 09:45
680-90723-32	CV1301A-CS	Solid	05/23/13 13:00	05/25/13 09:45
680-90723-33	CV1301B-CS	Solid	05/23/13 13:10	05/25/13 09:45
680-90723-34	CV1242A-CS	Solid	05/24/13 08:35	05/25/13 09:45
680-90723-35	CV1242A-CSD	Solid	05/24/13 08:35	05/25/13 09:45
680-90723-36	CV1242B-CS	Solid	05/24/13 08:43	05/25/13 09:45
680-90723-37	CV1242C-CS	Solid	05/24/13 08:53	05/25/13 09:45
680-90723-38	HP0331A-CS-SP	Solid	05/24/13 08:25	05/25/13 09:45
680-90723-39	HP0332A-CS-SP	Solid	05/24/13 08:37	05/25/13 09:45
680-90723-40	HP0332B-CS-SP	Solid	05/24/13 08:40	05/25/13 09:45

Method Summary

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Definitions/Glossary

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

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.
F	MS or MSD exceeds he control limits

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 Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1014A-CS

Lab Sample ID: 680-90723-21

Date Collected: 05/23/13 13:23
Date Received: 05/25/13 09:45

Matrix: Solid
Percent Solids: 70.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Acenaphthylene	19	J	57	7.1	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Anthracene	36		12	6.0	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Benzo[a]anthracene	150		11	5.5	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Benzo[a]pyrene	150		15	7.4	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Benzo[b]fluoranthene	350		17	8.6	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Benzo[g,h,i]perylene	130		28	6.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Benzo[k]fluoranthene	79		11	5.1	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Chrysene	230		13	6.4	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Dibenz(a,h)anthracene	37		28	5.8	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Fluoranthene	250		28	5.7	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Fluorene	19	J	28	5.8	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Indeno[1,2,3-cd]pyrene	96		28	10	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
1-Methylnaphthalene	57		57	6.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
2-Methylnaphthalene	62		57	10	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Naphthalene	38	J	57	6.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Phenanthrene	160		11	5.5	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1
Pyrene	260		28	5.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*06/03/13 10:11*	*06/04/13 19:27*	*1*

Client Sample ID: CV1014A-CSD

Lab Sample ID: 680-90723-22

Date Collected: 05/23/13 13:23
Date Received: 05/25/13 09:45

Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Acenaphthylene	14	J	47	5.9	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Anthracene	22		9.8	4.9	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Benzo[a]anthracene	140		9.4	4.6	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Benzo[a]pyrene	99		12	6.1	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Benzo[b]fluoranthene	180		14	7.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Benzo[g,h,i]perylene	76		23	5.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Benzo[k]fluoranthene	70		9.4	4.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Chrysene	130		11	5.3	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Dibenz(a,h)anthracene	8.0	J	23	4.8	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Fluoranthene	200		23	4.7	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Fluorene	12	J	23	4.8	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Indeno[1,2,3-cd]pyrene	66		23	8.3	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
1-Methylnaphthalene	37	J	47	5.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
2-Methylnaphthalene	57		47	8.3	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Naphthalene	39	J	47	5.2	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Phenanthrene	130		9.4	4.6	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1
Pyrene	190		23	4.3	ug/Kg	☼	06/03/13 10:11	06/04/13 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*06/03/13 10:11*	*06/04/13 19:46*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1014B-CS

Lab Sample ID: 680-90723-23
Date Collected: 05/23/13 13:34
Matrix: Solid
Date Received: 05/25/13 09:45
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	480	U	480	96	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Acenaphthylene	190	U	190	24	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Anthracene	40	U	40	20	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Benzo[a]anthracene	**93**		38	19	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Benzo[a]pyrene	**66**		50	25	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Benzo[b]fluoranthene	**82**		59	29	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Benzo[g,h,i]perylene	**42**	**J**	96	21	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Benzo[k]fluoranthene	**17**	**J**	38	17	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Chrysene	**41**	**J**	43	22	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Dibenz(a,h)an hracene	96	U	96	20	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Fluoranthene	**67**	**J**	96	19	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Fluorene	96	U	96	20	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Indeno[1,2,3-cd]pyrene	96	U	96	34	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
1-Methylnaphthalene	**95**	**J**	190	21	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
2-Methylnaphthalene	**100**	**J**	190	34	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Naphthalene	**58**	**J**	190	21	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Phenanthrene	**76**		38	19	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4
Pyrene	**54**	**J**	96	18	ug/Kg	☼	06/03/13 10:11	06/05/13 14:41	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*52*		*30 - 130*	*06/03/13 10:11*	*06/05/13 14:41*	*4*

Client Sample ID: CV1015A-CS

Lab Sample ID: 680-90723-24
Date Collected: 05/23/13 13:45
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 73.6

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	27	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Acenaphthylene	**38**	**J F**	53	6.6	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Anthracene	**54**	**F**	11	5.6	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Benzo[a]anthracene	**270**	**F**	11	5.2	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Benzo[a]pyrene	**240**	**F**	14	6.9	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Benzo[b]fluoranthene	**480**	**F**	16	8.1	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Benzo[g,h,i]perylene	**180**	**F**	27	5.8	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Benzo[k]fluoranthene	**170**	**F**	11	4.8	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Chrysene	**410**	**F**	12	6.0	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Dibenz(a,h)anthracene	**49**		27	5.4	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Fluoranthene	**460**	**F**	27	5.3	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Fluorene	**19**	**J**	27	5.4	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Indeno[1,2,3-cd]pyrene	**140**	**F**	27	9.4	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
1-Methylnaphthalene	**95**		53	5.8	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
2-Methylnaphthalene	**110**		53	9.4	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Naphthalene	**110**		53	5.8	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Phenanthrene	**310**	**F**	11	5.2	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1
Pyrene	**420**	**F**	27	4.9	ug/Kg	☼	06/03/13 10:11	06/04/13 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*06/03/13 10:11*	*06/04/13 20:22*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1015B-CS

Lab Sample ID: 680-90723-25
Date Collected: 05/23/13 13:57
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 71.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Acenaphthylene	92		55	6.9	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Anthracene	62		12	5.8	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Benzo[a]anthracene	360		11	5.4	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Benzo[a]pyrene	370		14	7.2	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Benzo[b]fluoranthene	750		17	8.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Benzo[g,h,i]perylene	370		28	6.1	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Benzo[k]fluoranthene	300		11	5.0	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Chrysene	500		12	6.2	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Dibenz(a,h)anthracene	110		28	5.7	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Fluoranthene	560		28	5.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Fluorene	23	J	28	5.7	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Indeno[1,2,3-cd]pyrene	310		28	9.8	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
1-Methylnaphthalene	96		55	6.1	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
2-Methylnaphthalene	100		55	9.8	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Naphthalene	98		55	6.1	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Phenanthrene	270		11	5.4	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1
Pyrene	480		28	5.1	ug/Kg	☼	06/03/13 10:11	06/05/13 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*06/03/13 10:11*	*06/05/13 12:20*	*1*

Client Sample ID: CV1111A-CS

Lab Sample ID: 680-90723-26
Date Collected: 05/23/13 12:46
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 82.8

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	☼	06/03/13 10:11	06/05/13 12:39	1
Acenaphthylene	13	J	48	6.0	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Anthracene	13		10	5.0	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Benzo[a]anthracene	77		9.6	4.7	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Benzo[a]pyrene	73		12	6.2	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Benzo[b]fluoranthene	140		15	7.3	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Benzo[g,h,i]perylene	71		24	5.3	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Benzo[k]fluoranthene	48		9.6	4.3	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Chrysene	150		11	5.4	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Dibenz(a,h)anthracene	22	J	24	4.9	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Fluoranthene	110		24	4.8	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Fluorene	8.6	J	24	4.9	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Indeno[1,2,3-cd]pyrene	49		24	8.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
1-Methylnaphthalene	89		48	5.3	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
2-Methylnaphthalene	140		48	8.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Naphthalene	60		48	5.3	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Phenanthrene	120		9.6	4.7	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1
Pyrene	99		24	4.4	ug/Kg	☼	06/03/13 10:11	06/05/13 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*41*		*30 - 130*	*06/03/13 10:11*	*06/05/13 12:39*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV0315A-CS

Lab Sample ID: 680-90723-27
Date Collected: 05/23/13 14:45
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Acenaphthylene	27	J	50	6.2	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Anthracene	34		10	5.2	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Benzo[a]anthracene	240		9.9	4.8	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Benzo[a]pyrene	270		13	6.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Benzo[b]fluoranthene	470		15	7.6	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Benzo[g,h,i]perylene	270		25	5.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Benzo[k]fluoranthene	180		9.9	4.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Chrysene	360		11	5.6	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Dibenz(a,h)anthracene	67		25	5.1	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Fluoranthene	360		25	5.0	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Fluorene	21	J	25	5.1	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Indeno[1,2,3-cd]pyrene	160		25	8.8	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
1-Methylnaphthalene	120		50	5.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
2-Methylnaphthalene	160		50	8.8	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Naphthalene	110		50	5.5	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Phenanthrene	270		9.9	4.8	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1
Pyrene	330		25	4.6	ug/Kg	☼	06/03/13 10:11	06/05/13 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*06/03/13 10:11*	*06/05/13 12:57*	*1*

Client Sample ID: CV0315B-CS

Lab Sample ID: 680-90723-28
Date Collected: 05/23/13 14:55
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 82.9

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	☼	06/03/13 10:11	06/05/13 13:16	1
Acenaphthylene	11	J	49	6.1	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Anthracene	20		10	5.1	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Benzo[a]anthracene	140		9.7	4.7	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Benzo[a]pyrene	170		13	6.3	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Benzo[b]fluoranthene	330		15	7.4	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Benzo[g,h,i]perylene	180		24	5.3	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Benzo[k]fluoranthene	79		9.7	4.4	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Chrysene	240		11	5.5	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Dibenz(a,h)anthracene	47		24	5.0	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Fluoranthene	190		24	4.9	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Fluorene	11	J	24	5.0	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Indeno[1,2,3-cd]pyrene	140		24	8.6	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
1-Methylnaphthalene	88		49	5.3	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
2-Methylnaphthalene	150		49	8.6	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Naphthalene	93		49	5.3	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Phenanthrene	170		9.7	4.7	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1
Pyrene	190		24	4.5	ug/Kg	☼	06/03/13 10:11	06/05/13 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*06/03/13 10:11*	*06/05/13 13:16*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1164A-CS

Lab Sample ID: 680-90723-29
Date Collected: 05/23/13 13:35
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 81.8

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	☼	06/03/13 10:11	06/05/13 13:34	4
Acenaphthylene	42	J	190	24	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Anthracene	46		41	20	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Benzo[a]anthracene	170		39	19	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Benzo[a]pyrene	190		50	25	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Benzo[b]fluoranthene	320		59	30	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Benzo[g,h,i]perylene	180		97	21	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Benzo[k]fluoranthene	70		39	17	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Chrysene	270		44	22	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Dibenz(a,h)anthracene	62	J	97	20	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Fluoranthene	310		97	19	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Fluorene	97	U	97	20	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Indeno[1,2,3-cd]pyrene	140		97	34	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
1-Methylnaphthalene	110	J	190	21	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
2-Methylnaphthalene	100	J	190	34	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Naphthalene	98	J	190	21	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Phenanthrene	220		39	19	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4
Pyrene	280		97	18	ug/Kg	☼	06/03/13 10:11	06/05/13 13:34	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*30 - 130*	*06/03/13 10:11*	*06/05/13 13:34*	*4*

Client Sample ID: CV1164B-CS

Lab Sample ID: 680-90723-30
Date Collected: 05/23/13 13:45
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	460	U	460	93	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Acenaphthylene	23	J	190	23	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Anthracene	45		39	19	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Benzo[a]anthracene	240		37	18	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Benzo[a]pyrene	200		48	24	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Benzo[b]fluoranthene	370		57	28	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Benzo[g,h,i]perylene	180		93	20	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Benzo[k]fluoranthene	130		37	17	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Chrysene	260		42	21	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Dibenz(a,h)anthracene	51	J	93	19	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Fluoranthene	340		93	19	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Fluorene	21	J	93	19	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Indeno[1,2,3-cd]pyrene	180		93	33	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
1-Methylnaphthalene	78	J	190	20	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
2-Methylnaphthalene	67	J	190	33	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Naphthalene	78	J	190	20	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Phenanthrene	230		37	18	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4
Pyrene	280		93	17	ug/Kg	☼	06/03/13 10:11	06/05/13 13:52	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*30 - 130*	*06/03/13 10:11*	*06/05/13 13:52*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1164C-CS

Lab Sample ID: 680-90723-31

Date Collected: 05/23/13 13:55
Date Received: 05/25/13 09:45

Matrix: Solid
Percent Solids: 83.0

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	96	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Acenaphthylene	43	J	190	24	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Anthracene	70		40	20	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Benzo[a]anthracene	430		38	19	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Benzo[a]pyrene	670		50	25	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Benzo[b]fluoranthene	1100		59	29	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Benzo[g,h,i]perylene	800		96	21	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Benzo[k]fluoranthene	300		38	17	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Chrysene	590		43	22	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Dibenz(a,h)anthracene	230		96	20	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Fluoranthene	490		96	19	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Fluorene	56	J	96	20	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Indeno[1,2,3-cd]pyrene	630		96	34	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
1-Methylnaphthalene	210		190	21	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
2-Methylnaphthalene	260		190	34	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Naphthalene	140	J	190	21	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Phenanthrene	400		38	19	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4
Pyrene	460		96	18	ug/Kg	☼	06/03/13 10:11	06/05/13 14:11	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*06/03/13 10:11*	*06/05/13 14:11*	*4*

Client Sample ID: CV1301A-CS

Lab Sample ID: 680-90723-32

Date Collected: 05/23/13 13:00
Date Received: 05/25/13 09:45

Matrix: Solid
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Acenaphthylene	28	J	46	5.7	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Anthracene	33		9.6	4.8	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Benzo[a]anthracene	140		9.1	4.5	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Benzo[a]pyrene	130		12	5.9	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Benzo[b]fluoranthene	210		14	7.0	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Benzo[g,h,i]perylene	83		23	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Benzo[k]fluoranthene	68		9.1	4.1	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Chrysene	150		10	5.1	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Dibenz(a,h)anthracene	34		23	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Fluoranthene	310		23	4.6	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Fluorene	25		23	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Indeno[1,2,3-cd]pyrene	76		23	8.1	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
1-Methylnaphthalene	34	J	46	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
2-Methylnaphthalene	38	J	46	8.1	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Naphthalene	25	J	46	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Phenanthrene	260		9.1	4.5	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1
Pyrene	240		23	4.2	ug/Kg	☼	06/03/13 13:04	06/05/13 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*06/03/13 13:04*	*06/05/13 20:44*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1301B-CS

Lab Sample ID: 680-90723-33
Date Collected: 05/23/13 13:10
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 82.3

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	97	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Acenaphthylene	49	J	190	24	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Anthracene	46		41	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Benzo[a]anthracene	210		39	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Benzo[a]pyrene	190		50	25	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Benzo[b]fluoranthene	330		59	30	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Benzo[g,h,i]perylene	170		97	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Benzo[k]fluoranthene	75		39	17	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Chrysene	250		44	22	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Dibenz(a,h)anthracene	61	J	97	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Fluoranthene	260		97	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Fluorene	34	J	97	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Indeno[1,2,3-cd]pyrene	140		97	34	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
1-Methylnaphthalene	340		190	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
2-Methylnaphthalene	340		190	34	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Naphthalene	180	J	190	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Phenanthrene	360		39	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4
Pyrene	260		97	18	ug/Kg	☼	06/03/13 13:04	06/05/13 21:02	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*30 - 130*	*06/03/13 13:04*	*06/05/13 21:02*	*4*

Client Sample ID: CV1242A-CS

Lab Sample ID: 680-90723-34
Date Collected: 05/24/13 08:35
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	99	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Acenaphthylene	53	J	200	25	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Anthracene	130		42	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Benzo[a]anthracene	610		40	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Benzo[a]pyrene	480		52	26	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Benzo[b]fluoranthene	790		61	30	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Benzo[g,h,i]perylene	340		99	22	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Benzo[k]fluoranthene	230		40	18	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Chrysene	580		45	22	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Dibenz(a,h)anthracene	100		99	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Fluoranthene	1200		99	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Fluorene	39	J	99	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Indeno[1,2,3-cd]pyrene	290		99	35	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
1-Methylnaphthalene	290		200	22	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
2-Methylnaphthalene	430		200	35	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Naphthalene	220		200	22	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Phenanthrene	710		40	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4
Pyrene	840		99	18	ug/Kg	☼	06/03/13 13:04	06/05/13 21:20	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*30 - 130*	*06/03/13 13:04*	*06/05/13 21:20*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1242A-CSD

Lab Sample ID: 680-90723-35
Date Collected: 05/24/13 08:35
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Acenaphthylene	55	J	200	26	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Anthracene	55		43	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Benzo[a]anthracene	380		41	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Benzo[a]pyrene	360		53	27	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Benzo[b]fluoranthene	590		62	31	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Benzo[g,h,i]perylene	270		100	23	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Benzo[k]fluoranthene	180		41	18	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Chrysene	420		46	23	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Dibenz(a,h)anthracene	75	J	100	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Fluoranthene	690		100	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Fluorene	28	J	100	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Indeno[1,2,3-cd]pyrene	240		100	36	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
1-Methylnaphthalene	340		200	23	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
2-Methylnaphthalene	240		200	36	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Naphthalene	110	J	200	23	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Phenanthrene	440		41	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4
Pyrene	550		100	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:39	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*30 - 130*	*06/03/13 13:04*	*06/05/13 21:39*	*4*

Client Sample ID: CV1242B-CS

Lab Sample ID: 680-90723-36
Date Collected: 05/24/13 08:43
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	93	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Acenaphthylene	34	J	190	23	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Anthracene	51		39	20	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Benzo[a]anthracene	200		37	18	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Benzo[a]pyrene	170		48	24	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Benzo[b]fluoranthene	270		57	28	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Benzo[g,h,i]perylene	180		93	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Benzo[k]fluoranthene	61		37	17	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Chrysene	240		42	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Dibenz(a,h)anthracene	55	J	93	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Fluoranthene	280		93	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Fluorene	21	J	93	19	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Indeno[1,2,3-cd]pyrene	120		93	33	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
1-Methylnaphthalene	600		190	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
2-Methylnaphthalene	850		190	33	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Naphthalene	440		190	21	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Phenanthrene	460		37	18	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4
Pyrene	250		93	17	ug/Kg	☼	06/03/13 13:04	06/05/13 21:57	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*30 - 130*	*06/03/13 13:04*	*06/05/13 21:57*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1242C-CS

Lab Sample ID: 680-90723-37
Date Collected: 05/24/13 08:53
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 83.0

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	96	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Acenaphthylene	190	U	190	24	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Anthracene	**20**	**J**	40	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Benzo[a]anthracene	**140**		38	19	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Benzo[a]pyrene	**160**		50	25	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Benzo[b]fluoranthene	**280**		59	29	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Benzo[g,h,i]perylene	**120**		96	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Benzo[k]fluoranthene	**73**		38	17	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Chrysene	**210**		43	22	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Dibenz(a,h)anthracene	**46**	**J**	96	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Fluoranthene	**250**		96	19	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Fluorene	**24**	**J**	96	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Indeno[1,2,3-cd]pyrene	**110**		96	34	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
1-Methylnaphthalene	**89**	**J**	190	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
2-Methylnaphthalene	**63**	**J**	190	34	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Naphthalene	**54**	**J**	190	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Phenanthrene	**180**		38	19	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4
Pyrene	**220**		96	18	ug/Kg	☼	06/03/13 13:04	06/05/13 22:16	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*105*		*30 - 130*	*06/03/13 13:04*	*06/05/13 22:16*	*4*

Client Sample ID: HP0331A-CS-SP

Lab Sample ID: 680-90723-38
Date Collected: 05/24/13 08:25
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Acenaphthylene	**45**	**J**	200	26	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Anthracene	**62**		43	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Benzo[a]anthracene	**310**		41	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Benzo[a]pyrene	**360**		53	27	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Benzo[b]fluoranthene	**550**		62	31	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Benzo[g,h,i]perylene	**400**		100	22	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Benzo[k]fluoranthene	**150**		41	18	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Chrysene	**390**		46	23	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Dibenz(a,h)anthracene	**100**		100	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Fluoranthene	**430**		100	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Fluorene	**32**	**J**	100	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Indeno[1,2,3-cd]pyrene	**240**		100	36	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
1-Methylnaphthalene	**210**		200	22	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
2-Methylnaphthalene	**270**		200	36	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Naphthalene	**160**	**J**	200	22	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Phenanthrene	**370**		41	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4
Pyrene	**380**		100	19	ug/Kg	☼	06/03/13 13:04	06/05/13 22:34	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*30 - 130*	*06/03/13 13:04*	*06/05/13 22:34*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: HP0332A-CS-SP

Lab Sample ID: 680-90723-39
Date Collected: 05/24/13 08:37
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Acenaphthylene	41	J	200	26	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Anthracene	130		43	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Benzo[a]anthracene	1300		41	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Benzo[a]pyrene	1200		53	27	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Benzo[b]fluoranthene	2100		62	31	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Benzo[g,h,i]perylene	760		100	23	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Benzo[k]fluoranthene	730		41	18	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Chrysene	1300		46	23	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Dibenz(a,h)anthracene	310		100	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Fluoranthene	2000		100	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Fluorene	50	J	100	21	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Indeno[1,2,3-cd]pyrene	750		100	36	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
1-Methylnaphthalene	160	J	200	23	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
2-Methylnaphthalene	220		200	36	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Naphthalene	190	J	200	23	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Phenanthrene	540		41	20	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4
Pyrene	1800		100	19	ug/Kg	☼	06/03/13 13:04	06/05/13 22:52	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*06/03/13 13:04*	*06/05/13 22:52*	*4*

Client Sample ID: HP0332B-CS-SP

Lab Sample ID: 680-90723-40
Date Collected: 05/24/13 08:40
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 70.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	560	U	560	110	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Acenaphthylene	300		220	28	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Anthracene	180		47	23	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Benzo[a]anthracene	720		45	22	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Benzo[a]pyrene	750		58	29	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Benzo[b]fluoranthene	1300		68	34	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Benzo[g,h,i]perylene	530		110	25	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Benzo[k]fluoranthene	430		45	20	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Chrysene	880		50	25	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Dibenz(a,h)anthracene	210		110	23	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Fluoranthene	1200		110	22	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Fluorene	52	J	110	23	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Indeno[1,2,3-cd]pyrene	520		110	40	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
1-Methylnaphthalene	180	J	220	25	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
2-Methylnaphthalene	230		220	40	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Naphthalene	300		220	25	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Phenanthrene	550		45	22	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4
Pyrene	840		110	21	ug/Kg	☼	06/03/13 13:04	06/06/13 14:50	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*06/03/13 13:04*	*06/06/13 14:50*	*4*

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

Lab Sample ID: MB 660-137991/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 138098 — **Prep Batch: 137991**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Acenaphthylene	40	U	40	5.0	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Fluoranthene	20	U	20	4.0	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Fluorene	20	U	20	4.1	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Naphthalene	40	U	40	4.4	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Pyrene	20	U	20	3.7	ug/Kg		06/03/13 10:11	06/04/13 16:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*30 - 130*	*06/03/13 10:11*	*06/04/13 16:06*	*1*

Lab Sample ID: LCS 660-137991/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 138098 — **Prep Batch: 137991**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	664	584		ug/Kg		88	39 - 130
Acenaphthylene	664	628		ug/Kg		95	38 - 130
Anthracene	664	592		ug/Kg		89	37 - 130
Benzo[a]anthracene	664	612		ug/Kg		92	40 - 130
Benzo[a]pyrene	664	583		ug/Kg		88	49 - 130
Benzo[b]fluoranthene	664	680		ug/Kg		102	37 - 130
Benzo[g,h,i]perylene	664	561		ug/Kg		85	32 - 130
Benzo[k]fluoranthene	664	597		ug/Kg		90	32 - 130
Chrysene	664	572		ug/Kg		86	41 - 130
Dibenz(a,h)an hracene	664	689		ug/Kg		104	27 - 130
Fluoranthene	664	594		ug/Kg		90	40 - 130
Fluorene	664	617		ug/Kg		93	40 - 130
Indeno[1,2,3-cd]pyrene	664	533		ug/Kg		80	30 - 130
1-Methylnaphthalene	664	590		ug/Kg		89	31 - 130
2-Methylnaphthalene	664	576		ug/Kg		87	33 - 130
Naphthalene	664	499		ug/Kg		75	36 - 130
Phenanthrene	664	543		ug/Kg		82	42 - 130
Pyrene	664	662		ug/Kg		100	44 - 130

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

Lab Sample ID: LCS 660-137991/2-A
Matrix: Solid
Analysis Batch: 138098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137991

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*86*		*30 - 130*

Lab Sample ID: 680-90723-24 MS
Matrix: Solid
Analysis Batch: 138098

Client Sample ID: CV1015A-CS
Prep Type: Total/NA
Prep Batch: 137991

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	130	U	885	374		ug/Kg	☼	42	39 - 130
Acenaphthylene	38	J F	885	300	F	ug/Kg	☼	30	38 - 130
Anthracene	54	F	885	338	F	ug/Kg	☼	32	37 - 130
Benzo[a]anthracene	270	F	885	596	F	ug/Kg	☼	36	40 - 130
Benzo[a]pyrene	240	F	885	467	F	ug/Kg	☼	26	49 - 130
Benzo[b]fluoranthene	480	F	885	734	F	ug/Kg	☼	29	37 - 130
Benzo[g,h,i]perylene	180	F	885	380	F	ug/Kg	☼	22	32 - 130
Benzo[k]fluoranthene	170	F	885	437	F	ug/Kg	☼	30	32 - 130
Chrysene	410	F	885	623	F	ug/Kg	☼	24	41 - 130
Dibenz(a,h)an hracene	49		885	367		ug/Kg	☼	36	27 - 130
Fluoranthene	460	F	885	646	F	ug/Kg	☼	21	40 - 130
Fluorene	19	J	885	378		ug/Kg	☼	41	40 - 130
Indeno[1,2,3-cd]pyrene	140	F	885	335	F	ug/Kg	☼	23	30 - 130
1-Methylnaphthalene	95		885	446		ug/Kg	☼	40	31 - 130
2-Methylnaphthalene	110		885	469		ug/Kg	☼	40	33 - 130
Naphthalene	110		885	430		ug/Kg	☼	36	36 - 130
Phenanthrene	310	F	885	589	F	ug/Kg	☼	32	42 - 130
Pyrene	420	F	885	673	F	ug/Kg	☼	28	44 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*37*		*30 - 130*

Lab Sample ID: 680-90723-24 MSD
Matrix: Solid
Analysis Batch: 138098

Client Sample ID: CV1015A-CS
Prep Type: Total/NA
Prep Batch: 137991

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	130	U	885	387		ug/Kg	☼	44	39 - 130	3	40
Acenaphthylene	38	J F	885	376		ug/Kg	☼	38	38 - 130	22	40
Anthracene	54	F	885	399		ug/Kg	☼	39	37 - 130	16	40
Benzo[a]anthracene	270	F	885	678		ug/Kg	☼	46	40 - 130	13	40
Benzo[a]pyrene	240	F	885	534	F	ug/Kg	☼	33	49 - 130	13	40
Benzo[b]fluoranthene	480	F	885	862		ug/Kg	☼	43	37 - 130	16	40
Benzo[g,h,i]perylene	180	F	885	399	F	ug/Kg	☼	25	32 - 130	5	40
Benzo[k]fluoranthene	170	F	885	511		ug/Kg	☼	38	32 - 130	16	40
Chrysene	410	F	885	740	F	ug/Kg	☼	37	41 - 130	17	40
Dibenz(a,h)an hracene	49		885	360		ug/Kg	☼	35	27 - 130	2	40
Fluoranthene	460	F	885	865		ug/Kg	☼	46	40 - 130	29	40
Fluorene	19	J	885	416		ug/Kg	☼	45	40 - 130	10	40
Indeno[1,2,3-cd]pyrene	140	F	885	376	F	ug/Kg	☼	27	30 - 130	12	40
1-Methylnaphthalene	95		885	485		ug/Kg	☼	44	31 - 130	8	40

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

Lab Sample ID: 680-90723-24 MSD — **Client Sample ID: CV1015A-CS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 138098 — **Prep Batch: 137991**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	110		885	527		ug/Kg	☼	47	33 - 130	12	40
Naphthalene	110		885	494		ug/Kg	☼	43	36 - 130	14	40
Phenanthrene	310	F	885	686		ug/Kg	☼	43	42 - 130	15	40
Pyrene	420	F	885	874		ug/Kg	☼	51	44 - 130	26	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*42*		*30 - 130*

Lab Sample ID: MB 660-137999/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 138101 — **Prep Batch: 137999**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Acenaphthylene	40	U	40	4.9	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Chrysene	8.9	U	8.9	4.4	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Fluoranthene	20	U	20	4.0	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Fluorene	20	U	20	4.1	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
2-Methylnaphthalene	40	U	40	7.0	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Naphthalene	40	U	40	4.4	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Pyrene	20	U	20	3.7	ug/Kg		06/03/13 13:04	06/05/13 19:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*30 - 130*	*06/03/13 13:04*	*06/05/13 19:12*	*1*

Lab Sample ID: LCS 660-137999/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 138101 — **Prep Batch: 137999**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	669	601		ug/Kg		90	39 - 130
Acenaphthylene	669	586		ug/Kg		88	38 - 130
Anthracene	669	562		ug/Kg		84	37 - 130
Benzo[a]anthracene	669	560		ug/Kg		84	40 - 130
Benzo[a]pyrene	669	535		ug/Kg		80	49 - 130
Benzo[b]fluoranthene	669	669		ug/Kg		100	37 - 130
Benzo[g,h,i]perylene	669	598		ug/Kg		89	32 - 130
Benzo[k]fluoranthene	669	541		ug/Kg		81	32 - 130

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

Lab Sample ID: LCS 660-137999/2-A
Matrix: Solid
Analysis Batch: 138101

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	669	535		ug/Kg		80	41 - 130
Dibenz(a,h)an hracene	669	670		ug/Kg		100	27 - 130
Fluoranthene	669	597		ug/Kg		89	40 - 130
Fluorene	669	582		ug/Kg		87	40 - 130
Indeno[1,2,3-cd]pyrene	669	583		ug/Kg		87	30 - 130
1-Methylnaphthalene	669	546		ug/Kg		82	31 - 130
2-Methylnaphthalene	669	564		ug/Kg		84	33 - 130
Naphthalene	669	454		ug/Kg		68	36 - 130
Phenanthrene	669	534		ug/Kg		80	42 - 130
Pyrene	669	539		ug/Kg		81	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*86*		*30 - 130*

QC Association Summary

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

GC/MS Semi VOA

Prep Batch: 137991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90723-21	CV1014A-CS	Total/NA	Solid	3546	
680-90723-22	CV1014A-CSD	Total/NA	Solid	3546	
680-90723-23	CV1014B-CS	Total/NA	Solid	3546	
680-90723-24	CV1015A-CS	Total/NA	Solid	3546	
680-90723-24 MS	CV1015A-CS	Total/NA	Solid	3546	
680-90723-24 MSD	CV1015A-CS	Total/NA	Solid	3546	
680-90723-25	CV1015B-CS	Total/NA	Solid	3546	
680-90723-26	CV1111A-CS	Total/NA	Solid	3546	
680-90723-27	CV0315A-CS	Total/NA	Solid	3546	
680-90723-28	CV0315B-CS	Total/NA	Solid	3546	
680-90723-29	CV1164A-CS	Total/NA	Solid	3546	
680-90723-30	CV1164B-CS	Total/NA	Solid	3546	
680-90723-31	CV1164C-CS	Total/NA	Solid	3546	
LCS 660-137991/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-137991/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 137999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90723-32	CV1301A-CS	Total/NA	Solid	3546	
680-90723-33	CV1301B-CS	Total/NA	Solid	3546	
680-90723-34	CV1242A-CS	Total/NA	Solid	3546	
680-90723-35	CV1242A-CSD	Total/NA	Solid	3546	
680-90723-36	CV1242B-CS	Total/NA	Solid	3546	
680-90723-37	CV1242C-CS	Total/NA	Solid	3546	
680-90723-38	HP0331A-CS-SP	Total/NA	Solid	3546	
680-90723-39	HP0332A-CS-SP	Total/NA	Solid	3546	
680-90723-40	HP0332B-CS-SP	Total/NA	Solid	3546	
LCS 660-137999/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-137999/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 138098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90723-21	CV1014A-CS	Total/NA	Solid	8270C LL	137991
680-90723-22	CV1014A-CSD	Total/NA	Solid	8270C LL	137991
680-90723-24	CV1015A-CS	Total/NA	Solid	8270C LL	137991
680-90723-24 MS	CV1015A-CS	Total/NA	Solid	8270C LL	137991
680-90723-24 MSD	CV1015A-CS	Total/NA	Solid	8270C LL	137991
LCS 660-137991/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	137991
MB 660-137991/1-A	Method Blank	Total/NA	Solid	8270C LL	137991

Analysis Batch: 138101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90723-23	CV1014B-CS	Total/NA	Solid	8270C LL	137991
680-90723-25	CV1015B-CS	Total/NA	Solid	8270C LL	137991
680-90723-26	CV1111A-CS	Total/NA	Solid	8270C LL	137991
680-90723-27	CV0315A-CS	Total/NA	Solid	8270C LL	137991
680-90723-28	CV0315B-CS	Total/NA	Solid	8270C LL	137991
680-90723-29	CV1164A-CS	Total/NA	Solid	8270C LL	137991
680-90723-30	CV1164B-CS	Total/NA	Solid	8270C LL	137991
680-90723-31	CV1164C-CS	Total/NA	Solid	8270C LL	137991
680-90723-32	CV1301A-CS	Total/NA	Solid	8270C LL	137999

GC/MS Semi VOA (Continued)

Analysis Batch: 138101 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90723-33	CV1301B-CS	Total/NA	Solid	8270C LL	137999
680-90723-34	CV1242A-CS	Total/NA	Solid	8270C LL	137999
680-90723-35	CV1242A-CSD	Total/NA	Solid	8270C LL	137999
680-90723-36	CV1242B-CS	Total/NA	Solid	8270C LL	137999
680-90723-37	CV1242C-CS	Total/NA	Solid	8270C LL	137999
680-90723-38	HP0331A-CS-SP	Total/NA	Solid	8270C LL	137999
680-90723-39	HP0332A-CS-SP	Total/NA	Solid	8270C LL	137999
LCS 660-137999/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	137999
MB 660-137999/1-A	Method Blank	Total/NA	Solid	8270C LL	137999

Analysis Batch: 138163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90723-40	HP0332B-CS-SP	Total/NA	Solid	8270C LL	137999

General Chemistry

Analysis Batch: 137846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90723-21	CV1014A-CS	Total/NA	Solid	Moisture	
680-90723-22	CV1014A-CSD	Total/NA	Solid	Moisture	
680-90723-23	CV1014B-CS	Total/NA	Solid	Moisture	
680-90723-24	CV1015A-CS	Total/NA	Solid	Moisture	
680-90723-24 MS	CV1015A-CS	Total/NA	Solid	Moisture	
680-90723-24 MSD	CV1015A-CS	Total/NA	Solid	Moisture	
680-90723-25	CV1015B-CS	Total/NA	Solid	Moisture	
680-90723-26	CV1111A-CS	Total/NA	Solid	Moisture	
680-90723-27	CV0315A-CS	Total/NA	Solid	Moisture	
680-90723-28	CV0315B-CS	Total/NA	Solid	Moisture	
680-90723-29	CV1164A-CS	Total/NA	Solid	Moisture	
680-90723-30	CV1164B-CS	Total/NA	Solid	Moisture	
680-90723-31	CV1164C-CS	Total/NA	Solid	Moisture	
680-90723-32	CV1301A-CS	Total/NA	Solid	Moisture	
680-90723-33	CV1301B-CS	Total/NA	Solid	Moisture	
680-90723-34	CV1242A-CS	Total/NA	Solid	Moisture	
680-90723-35	CV1242A-CSD	Total/NA	Solid	Moisture	
680-90723-36	CV1242B-CS	Total/NA	Solid	Moisture	
680-90723-37	CV1242C-CS	Total/NA	Solid	Moisture	

Analysis Batch: 137856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90723-38	HP0331A-CS-SP	Total/NA	Solid	Moisture	
680-90723-39	HP0332A-CS-SP	Total/NA	Solid	Moisture	
680-90723-40	HP0332B-CS-SP	Total/NA	Solid	Moisture	
LCS 660-137856/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-137856/17	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: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1014A-CS — Lab Sample ID: 680-90723-21

Date Collected: 05/23/13 13:23 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 70.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138098	06/04/13 19:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1014A-CSD — Lab Sample ID: 680-90723-22

Date Collected: 05/23/13 13:23 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 84.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138098	06/04/13 19:46	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1014B-CS — Lab Sample ID: 680-90723-23

Date Collected: 05/23/13 13:34 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 83.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138101	06/05/13 14:41	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1015A-CS — Lab Sample ID: 680-90723-24

Date Collected: 05/23/13 13:45 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 73.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138098	06/04/13 20:22	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1015B-CS — Lab Sample ID: 680-90723-25

Date Collected: 05/23/13 13:57 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 71.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138101	06/05/13 12:20	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1111A-CS — Lab Sample ID: 680-90723-26

Date Collected: 05/23/13 12:46 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 82.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138101	06/05/13 12:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV0315A-CS — Lab Sample ID: 680-90723-27

Date Collected: 05/23/13 14:45 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 80.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138101	06/05/13 12:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV0315B-CS — Lab Sample ID: 680-90723-28

Date Collected: 05/23/13 14:55 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 82.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138101	06/05/13 13:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1164A-CS — Lab Sample ID: 680-90723-29

Date Collected: 05/23/13 13:35 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 81.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138101	06/05/13 13:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1164B-CS — Lab Sample ID: 680-90723-30

Date Collected: 05/23/13 13:45 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 86.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138101	06/05/13 13:52	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1164C-CS — Lab Sample ID: 680-90723-31

Date Collected: 05/23/13 13:55 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 83.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138101	06/05/13 14:11	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1301A-CS — Lab Sample ID: 680-90723-32

Date Collected: 05/23/13 13:00 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 86.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138101	06/05/13 20:44	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1301B-CS — Lab Sample ID: 680-90723-33

Date Collected: 05/23/13 13:10 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 82.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138101	06/05/13 21:02	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1242A-CS — Lab Sample ID: 680-90723-34

Date Collected: 05/24/13 08:35 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 78.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138101	06/05/13 21:20	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1242A-CSD — Lab Sample ID: 680-90723-35

Date Collected: 05/24/13 08:35 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 77.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138101	06/05/13 21:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-90723-2
SDG: 68090723-2

Client Sample ID: CV1242B-CS — Lab Sample ID: 680-90723-36

Date Collected: 05/24/13 08:43 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 84.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138101	06/05/13 21:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1242C-CS — Lab Sample ID: 680-90723-37

Date Collected: 05/24/13 08:53 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 83.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138101	06/05/13 22:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: HP0331A-CS-SP — Lab Sample ID: 680-90723-38

Date Collected: 05/24/13 08:25 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 77.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138101	06/05/13 22:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137856	05/29/13 08:13	AG	TAL TAM

Client Sample ID: HP0332A-CS-SP — Lab Sample ID: 680-90723-39

Date Collected: 05/24/13 08:37 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 77.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138101	06/05/13 22:52	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137856	05/29/13 08:08	AG	TAL TAM

Client Sample ID: HP0332B-CS-SP — Lab Sample ID: 680-90723-40

Date Collected: 05/24/13 08:40 — **Matrix: Solid**
Date Received: 05/25/13 09:45 — **Percent Solids: 70.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138163	06/06/13 14:50	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137856	05/29/13 07:53	AG	TAL TAM

Laboratory References:

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

Serial Number 64257

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: 680-90723
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 2 OF 4
35th Ave Removal	200548-1356	AL			
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY ○
(b) (6)					DATE DUE _____
					EXPEDITED REPORT DELIVERY (SURCHARGE) ○
					DATE DUE _____
COMPANY CONTRACTING THIS WORK (if applicable)				PRESERVATIVE	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	RCRA Metals									REMARKS
5-23-13	1015	CV0978C-CS	C		X			X										
	1030	CV0978D-CS	C		X			X										
	1045	CV0978E-CS	C		X			X										
	1100	CV0978F-CS	C		X			X										
	1115	CV0978G-CS	C		X			X	X									
	1130	CV0978H-CS	C		X			X										
	1443	CV1008A-CS	C		X			X										
	1500	CV1008B-CS	C		X			X										
	1323	CV1014A-CS	C		X			X										
	1323	CV1014-A-CSD	C		X			X										
	1334	CV1014B-CS	C		X			X										
	1345	CV1015A-CS	C		X			X										

680-90723-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	5-24-13	1100						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
						[signature]	5/29/13	0745

LABORATORY USE ONLY

2.0°C

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	5/25/13	945	YES ○ NO ○		680-90723	

Rec'd Carol McNulty 5/28/13 1500

TAL8240-680 (1008)

Page 20 of 32

6/9/2013

Serial Number 64258

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

Alternate Laboratory Name/Location

Phone:
Fax: 680-90723

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 3 OF 4
35th Ave Removal	60051148-1356	AL			
TAL (LAB) PROJECT MANAGER: Lisa Harrison	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY ○ DATE DUE ____ EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ____

(b) (6)

PRESERVATIVE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE	AQUEOUS (water)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	4 GAH	Total 8 Metals								REMARKS
5-23-13	1357	CV1015B-CS	C		X			X									
	1246	CV1111A-CS	C		X			X									
	1445	CV0315A-CS	C		X			X									
	1455	CV0315B-CS	C		X			X									
	1335	CV1164A-CS	C		X			X	X								
	1345	CV1164B-CS	C		X			X									
	1355	CV1164C-CS	C		X			X									
	1300	CV1301A-CS	C		X			X									
	1310	CV1301B-CS	C		X			X									
5-24-13	0835	CV1242A-CS	C		X			X									
	0835	CV1242A-CSD	C		X			X									
	0843	CV1242B-CS	C		X			X									

680-90723-03 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	5-24-13	1100						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
						[signature]	5/28/13	0745

2.0°C

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	5/25/13	945	YES ○ NO ○		680-90723	

Rel Carol McNulty 5/28/13 1500

TAL8240-680 (1008)

Serial Number 64259

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: 680-90723

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal	20051448-1356	AL	4	4

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

(b) (6)

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	12 PAH	RCRA Metals									REMARKS
								PRESERVATIVE										
5-24-13	0853	CV 1242C-CS	C		X			X										
	0825	HP 0331A-CS-SP	C		X			X										
	~~0834~~	HP 0332A-CS-SP	C		X			X										
	0840	HP 0332B-CS-SP	C		X			X										
05-23-B	1115	CV 0978G-CS (sieve)	C		X				X									
	1005	CV 1075A-CS (sieve)	C		X				X									
	1335	CV 1164A-CS (sieve)	C		X				X									
	0846	CV 1347B-CS (sieve)	C		X				X									

680-90723-04 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	5-24-13	1100						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
						[signature]	5/29/13	0745

LABORATORY USE ONLY

2.0°C

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	5/25/13	945	YES ○ NO ○		680-90723	

Rpl Carol McMulty 5/28/13 1500

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90723-2
SDG Number: 68090723-2

Login Number: 90723
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?	N/A	
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	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90723-2
SDG Number: 68090723-2

Login Number: 90723
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 05/28/13 02:03 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: 680-90723-2
SDG: 68090723-2

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
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
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

* 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: 680-90723-2
SDG: 68090723-2

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