REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-88811-3
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	03/28/2013
Reviewer:	Karen Marie Trujillo	Date:	04/16/2013
Concurrence[2]:	Sarah Choyke, Martha Meyers-Lee	Date:	04/24/2013 (Revision 1[3])

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?		✓			

[1] All analytical work subcontracted to TestAmerica of Tampa, FL
[2] Independent technical reviewer
[3] This data validation was revised to include qualification of CV1056A-CS (680-88811-66) results due to field duplicate imprecision. The field duplicate sample (CV1056A-CSD, 680-88811-67) was analyzed under Job ID 680-88811-4.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 032613-RB-shovel (680-88766-23).	
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, 032613-RB-shovel (680-88766-23) was collected during the week of 3/25/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-88766-2.	
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?	✓			• CV1127A-CSD (680-88811-61) is a field duplicate of CV1127A-CS (680-88811-60). • CV1119C-CSD (680-88811-47) is a field duplicate of CV1119C-CS (680-88811-46), which was analyzed under Job ID 680-88811-2. • CV1056A-CSD (680-88811-67), which was analyzed under Job ID 680-88811-4, is a field duplicate of CV1056A-CS (680-88811-66).	
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	✓			• Instrument ID: BSMA5973 • Initial Calibration: 04/09/2013 • ICV: 04/09/13 @ 13:51 • Instrument ID: BSMC5973 • Initial Calibration: 04/02/2013 • ICV: 04/02/13 @ 15:34	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.				• CCV: 04/09/13 @ 11:47 • CCV: 04/10/13 @ 12:10	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with no individual CCC %RSD ≤30 (≤50% for poor performers), OR r≥0.995, OR r^2≥0.99, and RRF ≥0.050 (≥0.010 for poor performers)): o If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects o If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: ≤20%D (≤50% for poor performers) and RF ≥0.050 (≥0.010 for poor performers)): o If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects o If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds		✓		ICV of 04/02/13 @ 15:34, instrument BSMC5973: • Benzo(a)pyrene @ -24.3%D (Lab: ≤35, Project: ≤20), 75.5%R • Benzo(b)fluoranthene @ -21.1%D (Lab: ≤35, Project: ≤20), 79%R • Chrysene @ -23.5%D (Lab: ≤35, Project: ≤20), 76.5%R • Pyrene @ -21.4%D (Lab: ≤35, Project: ≤20), 78.5%R A negative bias is indicated by the ICV percent difference and the analytes were detected in the associated samples[4]; therefore, J-flag detected results.	J
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 136189: 680-88811-44 (CV1119A-CS), MS/MSD • Prep Batch 136204: 680-88811-62 (CV1127B-CS), MS/MSD. Lab sample 680-88811-62 is a project-specific sample (CV1127B-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-88811-4.	

[4] Associated sample(s): 680-88811-44, -47 through -60

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples are evaluated.* • 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		✓		CV1119A-CS (680-88811-44): • Anthracene @ 23 and 41 %R (37-130), Qualification of data not required[5]. • Benzo[a]anthracene @ 18 and 44 %R (40-130). Qualification of data not required[5]. • Benzo[a]pyrene @ 19 and 62 %R (49-130). Qualification of data not required[5]. • Benzo[b]fluoranthene @ -0.2 and 64 %R (37-130). Qualification of data not required[5]. • Benzo[g,h,i] perylene @ 29 and 60 % R (32-130). Qualification of data not required[5]. • Chrysene @ 9 and 38 %R (41-130), J-flag • Fluoranthene @ -43 and 4 (40-130), J-flag • 1-Methylnaphthalene @ -41 and -27 %R (31-130), J-flag • 2-Methylnaphthalene @ -25 and -2 %R (33-130), J-flag • Phenanthrene @ -82 and -50 (42-130), J-flag • Pyrene @ -13 and 30 %R (44-130), J-flag	J
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result	✓				
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	✓				

[5] 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
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.	✓				
29. Were lab comments included in report?	✓			Refer to **Attachment 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: 680-88811-3
SDG: 68088811-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88811-44	CV1119A-CS	Solid	03/28/13 09:15	03/29/13 09:45
680-88811-47	CV1119C-GSD	Solid	03/28/13 09:35	03/29/13 09:45
680-88811-48	CV1119D-GS	Solid	03/28/13 09:40	03/29/13 09:45
680-88811-49	CV1120A-CS	Solid	03/28/13 09:55	03/29/13 09:45
680-88811-50	CV1120B-CS	Solid	03/28/13 10:05	03/29/13 09:45
680-88811-51	CV1121A-CS	Solid	03/28/13 08:45	03/29/13 09:45
680-88811-52	CV1121B-CS	Solid	03/28/13 08:50	03/29/13 09:45
680-88811-53	CV1121C-CS	Solid	03/28/13 08:59	03/29/13 09:45
680-88811-54	CV1122A-CS	Solid	03/28/13 10:50	03/29/13 09:45
680-88811-55	CV1122B-CS	Solid	03/28/13 11:00	03/29/13 09:45
680-88811-56	CV1123A-CS	Solid	03/28/13 09:05	03/29/13 09:45
680-88811-57	CV1123B-CS	Solid	03/28/13 09:25	03/29/13 09:45
680-88811-58	CV1125A-CS	Solid	03/28/13 10:06	03/29/13 09:45
680-88811-59	CV1125B-CS	Solid	03/28/13 10:15	03/29/13 09:45
680-88811-60	CV1127A-CS	Solid	03/28/13 10:30	03/29/13 09:45
680-88811-61	CV1127A-CSD	Solid	03/28/13 10:32	03/29/13 09:45
680-88811-63	CV1131A-CS	Solid	03/28/13 11:00	03/29/13 09:45
680-88811-64	CV1131B-CS	Solid	03/28/13 11:07	03/29/13 09:45
680-88811-65	CV1131C-CS	Solid	03/28/13 11:15	03/29/13 09:45
680-88811-66	CV1056A-CS	Solid	03/28/13 13:45	03/29/13 09:45

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	CV1119C-CS (680-88811-46)		RL	CV1119C-CSD (680-88811-47)		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	140	J	200	200	J	210	µg/kg	1025	NA	60	410	None, absolute difference ≤ 2x Avg RL
Anthracene	150		43	130		44	µg/kg	217.5	NA	20	87	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	850		41	880		41	µg/kg	205	3	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	650		53	820		54	µg/kg	267.5	23	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	1300		62	1600		63	µg/kg	312.5	21	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	530		100	590		100	µg/kg	500	11	NA	NA	None, RPD ≤ 50%
Benzo(k)fluoranthene	340		41	430		41	µg/kg	205	23	NA	NA	None, RPD ≤ 50%
Chrysene	1000		46	910		47	µg/kg	232.5	9	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	140		100	280		100	µg/kg	500	NA	140	200	None, absolute difference ≤ 2x Avg RL
Fluoranthene	1100		100	1100		100	µg/kg	500	0	NA	NA	None, RPD ≤ 50%
Fluorene	69	J	100	51	J	100	µg/kg	500	NA	18	200	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	420		100	550		100	µg/kg	500	NA	130	200	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	240		200	380		210	µg/kg	1025	NA	140	410	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	210		200	500		210	µg/kg	1025	NA	290	410	None, absolute difference ≤ 2x Avg RL
Naphthalene	250		200	370		210	µg/kg	1025	NA	120	410	None, absolute difference ≤ 2x Avg RL
Phenanthrene	500		41	710		41	µg/kg	205	**35**	NA	NA	None, RPD ≤ 50%
Pyrene	1000		100	1200		100	µg/kg	500	18	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	CV1127A-CS (680-88811-60)		RL	CV1127A-CSD (680-88811-61)		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	26	J	49	60		48	µg/kg	242.5	NA	34	97	None, absolute difference ≤ 2x Avg RL
Anthracene	36		10	72		10	µg/kg	50	NA	**36**	**20**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(a)anthracene	140		9.9	200		9.6	µg/kg	48.75	**35**	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	130		13	170		13	µg/kg	65	**27**	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	350		15	490		15	µg/kg	75	**33**	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	130		25	250		24	µg/kg	122.5	**63**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(k)fluoranthene	110		9.9	210		9.6	µg/kg	48.75	**63**	NA	NA	**J/UJ-flag, RPD > 50%**
Chrysene	340		11	430		11	µg/kg	55	23	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	46		25	67		24	µg/kg	122.5	NA	21	49	None, absolute difference ≤ 2x Avg RL
Fluoranthene	320		25	430		24	µg/kg	122.5	**29**	NA	NA	None, RPD ≤ 50%
Fluorene	8.0	J	25			24	µg/kg	122.5	NA	8	49	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	130		25	250		24	µg/kg	122.5	**63**	NA	NA	**J/UJ-flag, RPD > 50%**
1-Methylnaphthalene	71		49	57		48	µg/kg	242.5	NA	14	97	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	78		49	63		48	µg/kg	242.5	NA	15	97	None, absolute difference ≤ 2x Avg RL
Naphthalene	78		49	60		48	µg/kg	242.5	NA	18	97	None, absolute difference ≤ 2x Avg RL
Phenanthrene	180		9.9	170		9.6	µg/kg	48.75	6	NA	NA	None, RPD ≤ 50%
Pyrene	260		25	440		24	µg/kg	122.5	**51**	NA	NA	**J/UJ-flag, 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	CV1056A-CS (680-88811-66)	RL	CV1056A-CSD (680-88811-67)		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	53	48			190	µg/kg	595	NA	53	238	None, absolute difference ≤ 2x Avg RL
Anthracene	55	10	150		40	µg/kg	125	NA	**95**	**50**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(a)anthracene	140	9.5	270		38	µg/kg	118.75	**63**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(a)pyrene	130	12	42	J	49	µg/kg	152.5	NA	**88**	**61**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(b)fluoranthene	321	15	510		58	µg/kg	182.5	**45**	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	210	24	370		95	µg/kg	297.5	NA	**160**	**119**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(k)fluoranthene	94	9.5	200		38	µg/kg	118.75	NA	**106**	**47.5**	**J/UJ-flag, absolute difference > 2x Avg RL**
Chrysene	200	11	360		43	µg/kg	135	**57**	NA	NA	**J/UJ-flag, RPD > 50%**
Dibenzo(a,h)anthracene	56	24	100		95	µg/kg	297.5	NA	44	119	None, absolute difference ≤ 2x Avg RL
Fluoranthene	220	24	380		95	µg/kg	297.5	NA	**160**	**119**	**J/UJ-flag, absolute difference > 2x Avg RL**
Indeno(1,2,3-cd)pyrene	200	24	410		95	µg/kg	297.5	NA	**210**	**119**	**J/UJ-flag, absolute difference > 2x Avg RL**
1-Methylnaphthalene	62	48	220		190	µg/kg	595	NA	158	238	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	71	48	230		190	µg/kg	595	NA	159	238	None, absolute difference ≤ 2x Avg RL
Naphthalene	66	48	190		190	µg/kg	595	NA	124	238	None, absolute difference ≤ 2x Avg RL
Phenanthrene	150	9.5	340		38	µg/kg	118.75	**78**	NA	NA	**J/UJ-flag, RPD > 50%**
Pyrene	230	24	420		95	µg/kg	297.5	NA	**190**	**119**	**J/UJ-flag, absolute difference > 2x Avg RL**

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

µg/kg - micrograms per kilogram
J - Estimated value
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference
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: 680-88811-3

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88811-3

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 03/29/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C and 3.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1119A-CS (680-88811-44), CV1119C-GSD (680-88811-47), CV1119D-GS (680-88811-48), CV1120A-CS (680-88811-49), CV1120B-CS (680-88811-50), CV1121A-CS (680-88811-51), CV1121B-CS (680-88811-52), CV1121C-CS (680-88811-53), CV1122A-CS (680-88811-54), CV1122B-CS (680-88811-55), CV1123A-CS (680-88811-56), CV1123B-CS (680-88811-57), CV1125A-CS (680-88811-58), CV1125B-CS (680-88811-59), CV1127A-CS (680-88811-60), CV1127A-CSD (680-88811-61), CV1131A-CS (680-88811-63), CV1131B-CS (680-88811-64), CV1131C-CS (680-88811-65) and CV1056A-CS (680-88811-66) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/08/2013 and analyzed on 04/09/2013 and 04/10/2013.

Samples CV1119C-GSD (680-88811-47)[4X], CV1119D-GS (680-88811-48)[4X], CV1121B-CS (680-88811-52)[4X], CV1121C-CS (680-88811-53)[4X], CV1123A-CS (680-88811-56)[4X], CV1125A-CS (680-88811-58)[4X], CV1125B-CS (680-88811-59)[4X], CV1131B-CS (680-88811-64)[4X] and CV1131C-CS (680-88811-65)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recpvered outside the recovery criteria low for the MS/MSD of sample CV1119A-CS (680-88811-44) in batch 660-136263.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

Report revised to correct job reference. No results were impacted.

ATTACHMENT D

QUALIFIED SAMPLE RESULT

Client Sample ID: CV1119A-CS

Lab Sample ID: 680-88811-44

Date Collected: 03/28/13 09:15
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	73	J	120	25	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Acenaphthylene	170		49	6.2	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Anthracene	280	F	10	5.2	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Benzo[a]anthracene	680	F	9.9	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Benzo[a]pyrene	610	F	13	6.4	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Benzo[b]fluoranthene	1300	F	15	7.5	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Benzo[g,h,i]perylene	490	F	25	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Benzo[k]fluoranthene	310		9.9	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Chrysene	1100	F	11	5.6	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Dibenz(a,h)anthracene	170		25	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Fluoranthene	1200	F	25	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Fluorene	87		25	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Indeno[1,2,3-cd]pyrene	410		25	8.8	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
1-Methylnaphthalene	1100	F	49	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
2-Methylnaphthalene	860	F	49	8.8	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Naphthalene	330		49	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Phenanthrene	1500	F	9.9	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Pyrene	1100	F	25	4.6	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*04/08/13 06:37*	*04/09/13 16:26*	*1*

Client Sample ID: CV1119C-GSD

Lab Sample ID: 680-88811-47

Date Collected: 03/28/13 09:35
Matrix: Solid
Date Received: 03/29/13 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	520	U	520	100	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Acenaphthylene	200	J	210	26	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Anthracene	130		44	22	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Benzo[a]anthracene	880		41	20	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Benzo[a]pyrene	820		54	27	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Benzo[b]fluoranthene	1600		63	32	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Benzo[g,h,i]perylene	590		100	23	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Benzo[k]fluoranthene	430		41	19	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Chrysene	910		47	23	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Dibenz(a,h)anthracene	280		100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Fluoranthene	1100		100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Fluorene	51	J	100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Indeno[1,2,3-cd]pyrene	550		100	37	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
1-Methylnaphthalene	380		210	23	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
2-Methylnaphthalene	500		210	37	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Naphthalene	370		210	23	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Phenanthrene	710		41	20	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Pyrene	1200		100	19	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*30 - 130*	*04/08/13 06:37*	*04/09/13 17:58*	*4*

Client Sample ID: CV1119D-GS

Lab Sample ID: 680-88811-48

Date Collected: 03/28/13 09:40
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 66.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	J	600	120	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Acenaphthylene	220	J	240	30	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Anthracene	270		50	25	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Benzo[a]anthracene	790		48	23	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Benzo[a]pyrene	560		62	31	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Benzo[b]fluoranthene	1400		73	37	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Benzo[g,h,i]perylene	570		120	26	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Benzo[k]fluoranthene	480		48	22	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Chrysene	1300		54	27	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Dibenz(a,h)anthracene	200		120	25	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Fluoranthene	1000		120	24	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Fluorene	62	J	120	25	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Indeno[1,2,3-cd]pyrene	510		120	43	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
1-Methylnaphthalene	320		240	26	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
2-Methylnaphthalene	270		240	43	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Naphthalene	450		240	26	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Phenanthrene	680		48	23	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Pyrene	1100		120	22	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*30 - 130*	*04/08/13 06:37*	*04/09/13 18:16*	*4*

Client Sample ID: CV1120A-CS

Lab Sample ID: 680-88811-49

Date Collected: 03/28/13 09:55
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 83.9

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	23	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Acenaphthylene	24	J	47	5.8	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Anthracene	24		9.8	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Benzo[a]anthracene	98		9.3	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Benzo[a]pyrene	93		12	6.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Benzo[b]fluoranthene	140		14	7.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Benzo[g,h,i]perylene	68		23	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Benzo[k]fluoranthene	58		9.3	4.2	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Chrysene	110		10	5.2	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Dibenz(a,h)anthracene	21	J	23	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Fluoranthene	110		23	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Fluorene	7.1	J	23	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Indeno[1,2,3-cd]pyrene	67		23	8.3	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
1-Methylnaphthalene	74		47	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
2-Methylnaphthalene	60		47	8.3	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Naphthalene	45	J	47	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Phenanthrene	110		9.3	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Pyrene	130		23	4.3	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*04/08/13 06:37*	*04/09/13 18:34*	*1*

Client Sample ID: CV1120B-CS

Lab Sample ID: 680-88811-50

Date Collected: 03/28/13 10:05
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Acenaphthylene	**9.6**	**J**	46	5.8	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Anthracene	**19**		9.7	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Benzo[a]anthracene	**83**		9.3	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Benzo[a]pyrene	**78**		12	6.0	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Benzo[b]fluoranthene	**140**		14	7.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Benzo[g,h,i]perylene	**55**		23	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Benzo[k]fluoranthene	**59**		9.3	4.2	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Chrysene	**110**		10	5.2	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Dibenz(a,h)anthracene	**17**	**J**	23	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Fluoranthene	**100**		23	4.6	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Fluorene	**5.1**	**J**	23	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Indeno[1,2,3-cd]pyrene	**51**		23	8.2	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
1-Methylnaphthalene	**33**	**J**	46	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
2-Methylnaphthalene	**37**	**J**	46	8.2	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Naphthalene	**35**	**J**	46	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Phenanthrene	**75**		9.3	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Pyrene	**110**		23	4.3	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*04/08/13 06:37*	*04/09/13 18:53*	*1*

Client Sample ID: CV1121A-CS

Lab Sample ID: 680-88811-51

Date Collected: 03/28/13 08:45
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 81.4

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	☼	04/08/13 06:37	04/09/13 19:11	1
Acenaphthylene	**23**	**J**	48	6.0	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Anthracene	**41**		10	5.0	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Benzo[a]anthracene	**160**		9.6	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Benzo[a]pyrene	**130**		12	6.2	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Benzo[b]fluoranthene	**270**		15	7.3	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Benzo[g,h,i]perylene	**88**		24	5.3	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Benzo[k]fluoranthene	**76**		9.6	4.3	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Chrysene	**220**		11	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Dibenz(a,h)anthracene	**28**		24	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Fluoranthene	**260**		24	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Fluorene	**13**	**J**	24	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Indeno[1,2,3-cd]pyrene	**99**		24	8.5	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
1-Methylnaphthalene	**100**		48	5.3	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
2-Methylnaphthalene	**180**		48	8.5	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Naphthalene	**140**		48	5.3	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Phenanthrene	**250**		9.6	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Pyrene	**250**		24	4.4	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*04/08/13 06:37*	*04/09/13 19:11*	*1*

Client Sample ID: CV1121B-CS

Lab Sample ID: 680-88811-52

Date Collected: 03/28/13 08:50
Matrix: Solid
Date Received: 03/29/13 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	520	U	520	100	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Acenaphthylene	**41**	**J**	210	26	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Anthracene	**99**		44	22	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Benzo[a]anthracene	**440**		42	20	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Benzo[a]pyrene	**370**		54	27	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Benzo[b]fluoranthene	**400**		64	32	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Benzo[g,h,i]perylene	**260**		100	23	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Benzo[k]fluoranthene	**320**		42	19	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Chrysene	**490**		47	23	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Dibenz(a,h)anthracene	**44**	**J**	100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Fluoranthene	**590**		100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Fluorene	**57**	**J**	100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Indeno[1,2,3-cd]pyrene	**230**		100	37	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
1-Methylnaphthalene	**110**	**J**	210	23	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
2-Methylnaphthalene	**210**		210	37	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Naphthalene	**230**		210	23	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Phenanthrene	**390**		42	20	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Pyrene	**580**		100	19	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*30 - 130*	*04/08/13 06:37*	*04/09/13 19:29*	*4*

Client Sample ID: CV1121C-CS

Lab Sample ID: 680-88811-53

Date Collected: 03/28/13 08:59
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 81.1

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	☼	04/08/13 06:37	04/09/13 19:48	4
Acenaphthylene	**50**	**J**	200	25	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Anthracene	**58**		42	21	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Benzo[a]anthracene	**250**		40	19	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Benzo[a]pyrene	**200**		52	26	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Benzo[b]fluoranthene	**250**		61	30	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Benzo[g,h,i]perylene	**130**		99	22	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Benzo[k]fluoranthene	**100**		40	18	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Chrysene	**240**		45	22	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Dibenz(a,h)anthracene	**63**	**J**	99	20	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Fluoranthene	**270**		99	20	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Fluorene	99	U	99	20	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Indeno[1,2,3-cd]pyrene	**130**		99	35	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
1-Methylnaphthalene	**80**	**J**	200	22	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
2-Methylnaphthalene	**180**	**J**	200	35	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Naphthalene	**120**	**J**	200	22	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Phenanthrene	**250**		40	19	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Pyrene	**280**		99	18	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*100*		*30 - 130*	*04/08/13 06:37*	*04/09/13 19:48*	*4*

Client Sample ID: CV1122A-CS

Lab Sample ID: 680-88811-54

Date Collected: 03/28/13 10:50
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.5

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	☼	04/08/13 06:37	04/09/13 20:06	1
Acenaphthylene	**21**	**J**	49	6.1	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Anthracene	**31**		10	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Benzo[a]anthracene	**190**		9.8	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Benzo[a]pyrene	**200**		13	6.4	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Benzo[b]fluoranthene	**330**		15	7.5	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Benzo[g,h,i]perylene	**180**		24	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Benzo[k]fluoranthene	**97**		9.8	4.4	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Chrysene	**310**		11	5.5	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Dibenz(a,h)anthracene	**53**		24	5.0	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Fluoranthene	**300**		24	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Fluorene	24	U	24	5.0	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Indeno[1,2,3-cd]pyrene	**140**		24	8.7	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
1-Methylnaphthalene	**110**		49	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
2-Methylnaphthalene	**110**		49	8.7	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Naphthalene	**65**		49	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Phenanthrene	**230**		9.8	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Pyrene	**280**		24	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*04/08/13 06:37*	*04/09/13 20:06*	*1*

Client Sample ID: CV1122B-CS

Lab Sample ID: 680-88811-55

Date Collected: 03/28/13 11:00
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.1

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	☼	04/08/13 06:37	04/09/13 20:24	1
Acenaphthylene	**20**	**J**	48	6.0	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Anthracene	**19**		10	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Benzo[a]anthracene	**93**		9.7	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Benzo[a]pyrene	**61**		13	6.3	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Benzo[b]fluoranthene	**140**		15	7.4	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Benzo[g,h,i]perylene	**70**		24	5.3	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Benzo[k]fluoranthene	**42**		9.7	4.3	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Chrysene	**130**		11	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Dibenz(a,h)anthracene	**17**	**J**	24	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Fluoranthene	**110**		24	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Fluorene	**11**	**J**	24	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Indeno[1,2,3-cd]pyrene	**54**		24	8.6	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
1-Methylnaphthalene	**64**		48	5.3	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
2-Methylnaphthalene	**55**		48	8.6	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Naphthalene	**65**		48	5.3	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Phenanthrene	**94**		9.7	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Pyrene	**120**		24	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*04/08/13 06:37*	*04/09/13 20:24*	*1*

Client Sample ID: CV1123A-CS

Lab Sample ID: 680-88811-56

Date Collected: 03/28/13 09:05
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 83.6

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	☼	04/08/13 06:37	04/09/13 20:43	4
Acenaphthylene	**33**	**J**	190	23	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Anthracene	**62**		39	20	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Benzo[a]anthracene	**330**		37	18	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Benzo[a]pyrene	**270**		48	24	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Benzo[b]fluoranthene	**440**		57	28	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Benzo[g,h,i]perylene	**170**		93	21	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Benzo[k]fluoranthene	**210**		37	17	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Chrysene	**360**		42	21	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Dibenz(a,h)anthracene	**76**	**J**	93	19	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Fluoranthene	**460**		93	19	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Fluorene	93	U	93	19	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Indeno[1,2,3-cd]pyrene	**180**		93	33	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
1-Methylnaphthalene	**110**	**J**	190	21	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
2-Methylnaphthalene	**140**	**J**	190	33	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Naphthalene	**150**	**J**	190	21	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Phenanthrene	**350**		37	18	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Pyrene	**440**		93	17	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*30 - 130*	*04/08/13 06:37*	*04/09/13 20:43*	*4*

Client Sample ID: CV1123B-CS

Lab Sample ID: 680-88811-57

Date Collected: 03/28/13 09:25
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**31**	**J**	120	25	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Acenaphthylene	**31**	**J**	49	6.1	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Anthracene	**71**		10	5.2	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Benzo[a]anthracene	**280**		9.8	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Benzo[a]pyrene	**270**		13	6.4	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Benzo[b]fluoranthene	**510**		15	7.5	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Benzo[g,h,i]perylene	**180**		25	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Benzo[k]fluoranthene	**120**		9.8	4.4	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Chrysene	**350**		11	5.5	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Dibenz(a,h)anthracene	**60**		25	5.0	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Fluoranthene	**540**		25	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Fluorene	**19**	**J**	25	5.0	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Indeno[1,2,3-cd]pyrene	**170**		25	8.7	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
1-Methylnaphthalene	**93**		49	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
2-Methylnaphthalene	**120**		49	8.7	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Naphthalene	**110**		49	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Phenanthrene	**370**		9.8	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Pyrene	**530**		25	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*04/08/13 06:37*	*04/09/13 21:01*	*1*

Client Sample ID: CV1125A-CS

Lab Sample ID: 680-88811-58

Date Collected: 03/28/13 10:06
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 85.7

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	92	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Acenaphthylene	**33**	**J**	180	23	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Anthracene	**31**	**J**	39	19	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Benzo[a]anthracene	**220**		37	18	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Benzo[a]pyrene	**190**		48	24	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Benzo[b]fluoranthene	**240**		56	28	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Benzo[g,h,i]perylene	**200**		92	20	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Benzo[k]fluoranthene	**150**		37	17	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Chrysene	**290**		41	21	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Dibenz(a,h)anthracene	**89**	**J**	92	19	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Fluoranthene	**290**		92	18	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Fluorene	92	U	92	19	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Indeno[1,2,3-cd]pyrene	**110**		92	33	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
1-Methylnaphthalene	**92**	**J**	180	20	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
2-Methylnaphthalene	**62**	**J**	180	33	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Naphthalene	**87**	**J**	180	20	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Phenanthrene	**250**		37	18	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Pyrene	**250**		92	17	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*30 - 130*	*04/08/13 06:37*	*04/10/13 12:47*	*4*

Client Sample ID: CV1125B-CS

Lab Sample ID: 680-88811-59

Date Collected: 03/28/13 10:15
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	96	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Acenaphthylene	190	U	190	24	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Anthracene	**130**		40	20	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Benzo[a]anthracene	**420**		38	19	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Benzo[a]pyrene	**270**		50	25	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Benzo[b]fluoranthene	**480**		59	29	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Benzo[g,h,i]perylene	**270**		96	21	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Benzo[k]fluoranthene	**270**		38	17	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Chrysene	**400**		43	22	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Dibenz(a,h)anthracene	**62**	**J**	96	20	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Fluoranthene	**670**		96	19	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Fluorene	**55**	**J**	96	20	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Indeno[1,2,3-cd]pyrene	**170**		96	34	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
1-Methylnaphthalene	**100**	**J**	190	21	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
2-Methylnaphthalene	**80**	**J**	190	34	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Naphthalene	**100**	**J**	190	21	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Phenanthrene	**540**		38	19	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Pyrene	**600**		96	18	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*30 - 130*	*04/08/13 06:37*	*04/10/13 13:05*	*4*

Client Sample ID: CV1127A-CS

Lab Sample ID: 680-88811-60

Date Collected: 03/28/13 10:30
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Acenaphthylene	**26**	**J**	49	6.2	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Anthracene	**36**		10	5.2	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Benzo[a]anthracene	**140**		9.9	4.8	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Benzo[a]pyrene	**130**		13	6.4	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Benzo[b]fluoranthene	**350**		15	7.5	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Benzo[g,h,i]perylene	**130**		25	5.4	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Benzo[k]fluoranthene	**110**		9.9	4.5	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Chrysene	**340**		11	5.6	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Dibenz(a,h)anthracene	**46**		25	5.1	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Fluoranthene	**320**		25	4.9	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Fluorene	**8.0**	**J**	25	5.1	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Indeno[1,2,3-cd]pyrene	**130**		25	8.8	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
1-Methylnaphthalene	**71**		49	5.4	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
2-Methylnaphthalene	**78**		49	8.8	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Naphthalene	**78**		49	5.4	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Phenanthrene	**180**		9.9	4.8	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Pyrene	**260**		25	4.6	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*51*		*30 - 130*	*04/08/13 06:37*	*04/10/13 13:24*	*1*

Client Sample ID: CV1127A-CSD

Lab Sample ID: 680-88811-61

Date Collected: 03/28/13 10:32
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.4

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	☼	04/08/13 09:32	04/09/13 17:33	1
Acenaphthylene	**60**		48	6.0	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Anthracene	**72**		10	5.1	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Benzo[a]anthracene	**200**		9.6	4.7	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Benzo[a]pyrene	**170**		13	6.3	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Benzo[b]fluoranthene	**490**		15	7.3	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Benzo[g,h,i]perylene	**250**		24	5.3	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Benzo[k]fluoranthene	**210**		9.6	4.3	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Chrysene	**430**		11	5.4	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Dibenz(a,h)anthracene	**67**		24	4.9	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Fluoranthene	**430**		24	4.8	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Fluorene	24	U	24	4.9	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Indeno[1,2,3-cd]pyrene	**250**		24	8.6	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
1-Methylnaphthalene	**57**		48	5.3	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
2-Methylnaphthalene	**63**		48	8.6	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Naphthalene	**60**		48	5.3	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Phenanthrene	**170**		9.6	4.7	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Pyrene	**440**		24	4.5	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*04/08/13 09:32*	*04/09/13 17:33*	*1*

Client Sample ID: CV1131A-CS

Lab Sample ID: 680-88811-63

Date Collected: 03/28/13 11:00
Matrix: Solid
Date Received: 03/29/13 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	61	J	120	24	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Acenaphthylene	56		48	6.0	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Anthracene	93		10	5.1	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Benzo[a]anthracene	350		9.7	4.7	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Benzo[a]pyrene	340		13	6.3	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Benzo[b]fluoranthene	670		15	7.4	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Benzo[g,h,i]perylene	380		24	5.3	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Benzo[k]fluoranthene	200		9.7	4.3	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Chrysene	450		11	5.4	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Dibenz(a,h)anthracene	120		24	4.9	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Fluoranthene	550		24	4.8	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Fluorene	48		24	4.9	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Indeno[1,2,3-cd]pyrene	370		24	8.6	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
1-Methylnaphthalene	100		48	5.3	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
2-Methylnaphthalene	150		48	8.6	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Naphthalene	180		48	5.3	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Phenanthrene	390		9.7	4.7	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Pyrene	500		24	4.5	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*30 - 130*	*04/08/13 09:32*	*04/09/13 18:33*	*1*

Client Sample ID: CV1131B-CS

Lab Sample ID: 680-88811-64

Date Collected: 03/28/13 11:07
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 68.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	580	U	580	120	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Acenaphthylene	230	U	230	29	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Anthracene	180		49	24	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Benzo[a]anthracene	310		46	23	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Benzo[a]pyrene	60	U	60	30	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Benzo[b]fluoranthene	540		71	35	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Benzo[g,h,i]perylene	290		120	26	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Benzo[k]fluoranthene	160		46	21	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Chrysene	390		52	26	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Dibenz(a,h)anthracene	92	J	120	24	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Fluoranthene	470		120	23	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Fluorene	120	U	120	24	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Indeno[1,2,3-cd]pyrene	400		120	41	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
1-Methylnaphthalene	250		230	26	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
2-Methylnaphthalene	270		230	41	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Naphthalene	270		230	26	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Phenanthrene	460		46	23	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Pyrene	470		120	21	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*30 - 130*	*04/08/13 09:32*	*04/09/13 18:48*	*4*

Client Sample ID: CV1131C-CS

Lab Sample ID: 680-88811-65

Date Collected: 03/28/13 11:15
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Anthracene	**230**		42	21	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Benzo[a]anthracene	**510**		40	20	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Benzo[a]pyrene	**210**		52	26	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Benzo[b]fluoranthene	**800**		61	31	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Benzo[g,h,i]perylene	**440**		100	22	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Benzo[k]fluoranthene	**260**		40	18	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Chrysene	**580**		45	23	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Dibenz(a,h)anthracene	**140**		100	21	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Fluoranthene	**760**		100	20	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Fluorene	100	U	100	21	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Indeno[1,2,3-cd]pyrene	**510**		100	36	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
1-Methylnaphthalene	**230**		200	22	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
2-Methylnaphthalene	**250**		200	36	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Naphthalene	**250**		200	22	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Phenanthrene	**600**		40	20	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Pyrene	**790**		100	19	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*04/08/13 09:32*	*04/09/13 19:03*	*4*

Client Sample ID: CV1056A-CS

Lab Sample ID: 680-88811-66

Date Collected: 03/28/13 13:45
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Acenaphthylene	**53**		48	6.0	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Anthracene	**55**		10	5.0	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Benzo[a]anthracene	**140**		9.5	4.6	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Benzo[a]pyrene	**130**		12	6.2	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Benzo[b]fluoranthene	**320**		15	7.3	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Benzo[g,h,i]perylene	**210**		24	5.2	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Benzo[k]fluoranthene	**94**		9.5	4.3	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Chrysene	**200**		11	5.4	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Dibenz(a,h)anthracene	**56**		24	4.9	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Fluoranthene	**220**		24	4.8	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Fluorene	24	U	24	4.9	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Indeno[1,2,3-cd]pyrene	**200**		24	8.5	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
1-Methylnaphthalene	**62**		48	5.2	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
2-Methylnaphthalene	**71**		48	8.5	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Naphthalene	**66**		48	5.2	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Phenanthrene	**150**		9.5	4.6	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Pyrene	**230**		24	4.4	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*45*		*30 - 130*	*04/08/13 09:32*	*04/09/13 19:18*	*1*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-88811-3

SDG Number: 68088811-3

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
4/10/2013 5:46 PM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
04/10/2013
Revision: 1

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88811-3

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 03/29/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C and 3.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1119A-CS (680-88811-44), CV1119C-GSD (680-88811-47), CV1119D-GS (680-88811-48), CV1120A-CS (680-88811-49), CV1120B-CS (680-88811-50), CV1121A-CS (680-88811-51), CV1121B-CS (680-88811-52), CV1121C-CS (680-88811-53), CV1122A-CS (680-88811-54), CV1122B-CS (680-88811-55), CV1123A-CS (680-88811-56), CV1123B-CS (680-88811-57), CV1125A-CS (680-88811-58), CV1125B-CS (680-88811-59), CV1127A-CS (680-88811-60), CV1127A-CSD (680-88811-61), CV1131A-CS (680-88811-63), CV1131B-CS (680-88811-64), CV1131C-CS (680-88811-65) and CV1056A-CS (680-88811-66) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/08/2013 and analyzed on 04/09/2013 and 04/10/2013.

Samples CV1119C-GSD (680-88811-47)[4X], CV1119D-GS (680-88811-48)[4X], CV1121B-CS (680-88811-52)[4X], CV1121C-CS (680-88811-53)[4X], CV1123A-CS (680-88811-56)[4X], CV1125A-CS (680-88811-58)[4X], CV1125B-CS (680-88811-59)[4X], CV1131B-CS (680-88811-64)[4X] and CV1131C-CS (680-88811-65)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recpvered outside the recovery criteria low for the MS/MSD of sample CV1119A-CS (680-88811-44) in batch 660-136263.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

Report revised to correct job reference. No results were impacted.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-3
Sdg Number: 68088811-3

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88811-44	CV1119A-CS	Solid	03/28/2013 0915	03/29/2013 0945
680-88811-44MS	CV1119A-CS	Solid	03/28/2013 0915	03/29/2013 0945
680-88811-44MSD	CV1119A-CS	Solid	03/28/2013 0915	03/29/2013 0945
680-88811-47	CV1119C-GSD	Solid	03/28/2013 0935	03/29/2013 0945
680-88811-48	CV1119D-GS	Solid	03/28/2013 0940	03/29/2013 0945
680-88811-49	CV1120A-CS	Solid	03/28/2013 0955	03/29/2013 0945
680-88811-50	CV1120B-CS	Solid	03/28/2013 1005	03/29/2013 0945
680-88811-51	CV1121A-CS	Solid	03/28/2013 0845	03/29/2013 0945
680-88811-52	CV1121B-CS	Solid	03/28/2013 0850	03/29/2013 0945
680-88811-53	CV1121C-CS	Solid	03/28/2013 0859	03/29/2013 0945
680-88811-54	CV1122A-CS	Solid	03/28/2013 1050	03/29/2013 0945
680-88811-55	CV1122B-CS	Solid	03/28/2013 1100	03/29/2013 0945
680-88811-56	CV1123A-CS	Solid	03/28/2013 0905	03/29/2013 0945
680-88811-57	CV1123B-CS	Solid	03/28/2013 0925	03/29/2013 0945
680-88811-58	CV1125A-CS	Solid	03/28/2013 1006	03/29/2013 0945
680-88811-59	CV1125B-CS	Solid	03/28/2013 1015	03/29/2013 0945
680-88811-60	CV1127A-CS	Solid	03/28/2013 1030	03/29/2013 0945
680-88811-61	CV1127A-CSD	Solid	03/28/2013 1032	03/29/2013 0945
680-88811-63	CV1131A-CS	Solid	03/28/2013 1100	03/29/2013 0945
680-88811-64	CV1131B-CS	Solid	03/28/2013 1107	03/29/2013 0945
680-88811-65	CV1131C-CS	Solid	03/28/2013 1115	03/29/2013 0945
680-88811-66	CV1056A-CS	Solid	03/28/2013 1345	03/29/2013 0945

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-3
Sdg Number: 68088811-3

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: 680-88811-3
Sdg Number: 68088811-3

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: 680-88811-3
Sdg Number: 68088811-3

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: 680-88811-3
Sdg Number: 68088811-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136189					
LCS 660-136189/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136189/1-A	Method Blank	T	Solid	3546	
680-88811-44	CV1119A-CS	T	Solid	3546	
680-88811-44MS	Matrix Spike	T	Solid	3546	
680-88811-44MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88811-47	CV1119C-GSD	T	Solid	3546	
680-88811-48	CV1119D-GS	T	Solid	3546	
680-88811-49	CV1120A-CS	T	Solid	3546	
680-88811-50	CV1120B-CS	T	Solid	3546	
680-88811-51	CV1121A-CS	T	Solid	3546	
680-88811-52	CV1121B-CS	T	Solid	3546	
680-88811-53	CV1121C-CS	T	Solid	3546	
680-88811-54	CV1122A-CS	T	Solid	3546	
680-88811-55	CV1122B-CS	T	Solid	3546	
680-88811-56	CV1123A-CS	T	Solid	3546	
680-88811-57	CV1123B-CS	T	Solid	3546	
680-88811-58	CV1125A-CS	T	Solid	3546	
680-88811-59	CV1125B-CS	T	Solid	3546	
680-88811-60	CV1127A-CS	T	Solid	3546	
Prep Batch: 660-136204					
LCS 660-136204/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136204/1-A	Method Blank	T	Solid	3546	
680-88811-61	CV1127A-CSD	T	Solid	3546	
680-88811-A-62-B MS	Matrix Spike	T	Solid	3546	
680-88811-A-62-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88811-63	CV1131A-CS	T	Solid	3546	
680-88811-64	CV1131B-CS	T	Solid	3546	
680-88811-65	CV1131C-CS	T	Solid	3546	
680-88811-66	CV1056A-CS	T	Solid	3546	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-3
Sdg Number: 68088811-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-136263					
LCS 660-136189/2-A	Lab Control Sample	T	Solid	8270C LL	660-136189
MB 660-136189/1-A	Method Blank	T	Solid	8270C LL	660-136189
680-88811-44	CV1119A-CS	T	Solid	8270C LL	660-136189
680-88811-44MS	Matrix Spike	T	Solid	8270C LL	660-136189
680-88811-44MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136189
680-88811-47	CV1119C-GSD	T	Solid	8270C LL	660-136189
680-88811-48	CV1119D-GS	T	Solid	8270C LL	660-136189
680-88811-49	CV1120A-CS	T	Solid	8270C LL	660-136189
680-88811-50	CV1120B-CS	T	Solid	8270C LL	660-136189
680-88811-51	CV1121A-CS	T	Solid	8270C LL	660-136189
680-88811-52	CV1121B-CS	T	Solid	8270C LL	660-136189
680-88811-53	CV1121C-CS	T	Solid	8270C LL	660-136189
680-88811-54	CV1122A-CS	T	Solid	8270C LL	660-136189
680-88811-55	CV1122B-CS	T	Solid	8270C LL	660-136189
680-88811-56	CV1123A-CS	T	Solid	8270C LL	660-136189
680-88811-57	CV1123B-CS	T	Solid	8270C LL	660-136189
Analysis Batch:660-136269					
LCS 660-136204/2-A	Lab Control Sample	T	Solid	8270C LL	660-136204
MB 660-136204/1-A	Method Blank	T	Solid	8270C LL	660-136204
680-88811-61	CV1127A-CSD	T	Solid	8270C LL	660-136204
680-88811-A-62-B MS	Matrix Spike	T	Solid	8270C LL	660-136204
680-88811-A-62-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136204
680-88811-63	CV1131A-CS	T	Solid	8270C LL	660-136204
680-88811-64	CV1131B-CS	T	Solid	8270C LL	660-136204
680-88811-65	CV1131C-CS	T	Solid	8270C LL	660-136204
680-88811-66	CV1056A-CS	T	Solid	8270C LL	660-136204
Analysis Batch:660-136309					
680-88811-58	CV1125A-CS	T	Solid	8270C LL	660-136189
680-88811-59	CV1125B-CS	T	Solid	8270C LL	660-136189
680-88811-60	CV1127A-CS	T	Solid	8270C LL	660-136189

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-3
Sdg Number: 68088811-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-135964					
680-88811-44	CV1119A-CS	T	Solid	Moisture	
680-88811-44MS	Matrix Spike	T	Solid	Moisture	
680-88811-44MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88811-50	CV1120B-CS	T	Solid	Moisture	
680-88811-59	CV1125B-CS	T	Solid	Moisture	
680-88811-A-62 MS	Matrix Spike	T	Solid	Moisture	
680-88811-A-62 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88811-64	CV1131B-CS	T	Solid	Moisture	
Analysis Batch:660-135977					
680-88811-47	CV1119C-GSD	T	Solid	Moisture	
680-88811-49	CV1120A-CS	T	Solid	Moisture	
680-88811-51	CV1121A-CS	T	Solid	Moisture	
680-88811-52	CV1121B-CS	T	Solid	Moisture	
680-88811-55	CV1122B-CS	T	Solid	Moisture	
680-88811-56	CV1123A-CS	T	Solid	Moisture	
680-88811-58	CV1125A-CS	T	Solid	Moisture	
680-88811-60	CV1127A-CS	T	Solid	Moisture	
680-88811-61	CV1127A-CSD	T	Solid	Moisture	
680-88811-65	CV1131C-CS	T	Solid	Moisture	
680-88811-66	CV1056A-CS	T	Solid	Moisture	
Analysis Batch:660-135992					
LCS 660-135992/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-135992/22	Lab Control Sample Duplicate	T	Solid	Moisture	
680-88811-48	CV1119D-GS	T	Solid	Moisture	
680-88811-53	CV1121C-CS	T	Solid	Moisture	
680-88811-54	CV1122A-CS	T	Solid	Moisture	
680-88811-63	CV1131A-CS	T	Solid	Moisture	
Analysis Batch:660-136030					
LCS 660-136030/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-136030/20	Lab Control Sample Duplicate	T	Solid	Moisture	
680-88811-57	CV1123B-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Instrument ID: BSMA5973 Analysis Batch Number: 136269

Lab Sample ID: IC 660-136269/5 Client Sample ID:

Date Analyzed: 04/09/13 11:04 Lab File ID: 1AD09005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.47	Baseline Event	cantins	04/09/13 12:30
Benzo[g,h,i]perylene	8.65	Baseline Event	cantins	04/09/13 12:31

Lab Sample ID: IC 660-136269/6 Client Sample ID:

Date Analyzed: 04/09/13 11:19 Lab File ID: 1AD09006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.46	Baseline Event	cantins	04/09/13 12:31

Lab Sample ID: IC 660-136269/9 Client Sample ID:

Date Analyzed: 04/09/13 12:03 Lab File ID: 1AD09009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	7.44	Baseline Event	cantins	04/09/13 12:32

Lab Sample ID: 680-88811-61 Client Sample ID: CV1127A-CSD

Date Analyzed: 04/09/13 17:33 Lab File ID: 1AD09018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.40	Split Peak	cantins	04/10/13 12:03
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	04/10/13 12:03
Indeno[1,2,3-cd]pyrene	8.45	Split Peak	cantins	04/10/13 12:03

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Instrument ID: BSMA5973 Analysis Batch Number: 136269

Lab Sample ID: 680-88811-63 Client Sample ID: CV1131A-CS

Date Analyzed: 04/09/13 18:33 Lab File ID: 1AD09022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.42	Split Peak	cantins	04/10/13 12:08
Benzo[k]fluoranthene	7.43	Baseline Event	cantins	04/10/13 12:08
Indeno[1,2,3-cd]pyrene	8.46	Split Peak	cantins	04/10/13 12:08

Lab Sample ID: 680-88811-64 Client Sample ID: CV1131B-CS

Date Analyzed: 04/09/13 18:48 Lab File ID: 1AD09023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.41	Split Peak	cantins	04/10/13 12:09
Benzo[k]fluoranthene	7.43	Baseline Event	cantins	04/10/13 12:09
Indeno[1,2,3-cd]pyrene	8.46	Split Peak	cantins	04/10/13 12:11

Lab Sample ID: 680-88811-65 Client Sample ID: CV1131C-CS

Date Analyzed: 04/09/13 19:03 Lab File ID: 1AD09024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.41	Split Peak	cantins	04/10/13 12:12
Benzo[k]fluoranthene	7.43	Baseline Event	cantins	04/10/13 12:12
Indeno[1,2,3-cd]pyrene	8.46	Split Peak	cantins	04/10/13 12:12

Lab Sample ID: 680-88811-66 Client Sample ID: CV1056A-CS

Date Analyzed: 04/09/13 19:18 Lab File ID: 1AD09025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.41	Split Peak	cantins	04/10/13 12:13
Benzo[k]fluoranthene	7.43	Baseline Event	cantins	04/10/13 12:13
Indeno[1,2,3-cd]pyrene	8.46	Split Peak	cantins	04/10/13 12:13

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Instrument ID: BSMC5973 Analysis Batch Number: 136048

Lab Sample ID: IC 660-136048/5 Client Sample ID:

Date Analyzed: 04/02/13 13:26 Lab File ID: 1CD02005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	10.09	Baseline Event	cantins	04/02/13 15:44

Lab Sample ID: IC 660-136048/6 Client Sample ID:

Date Analyzed: 04/02/13 13:44 Lab File ID: 1CD02006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:45

Lab Sample ID: IC 660-136048/7 Client Sample ID:

Date Analyzed: 04/02/13 14:02 Lab File ID: 1CD02007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/02/13 15:48

Lab Sample ID: IC 660-136048/8 Client Sample ID:

Date Analyzed: 04/02/13 14:20 Lab File ID: 1CD02008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/02/13 15:49

Lab Sample ID: ICIS 660-136048/9 Client Sample ID:

Date Analyzed: 04/02/13 14:39 Lab File ID: 1CD02009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:39

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Instrument ID: BSMC5973 Analysis Batch Number: 136048

Lab Sample ID: IC 660-136048/10 Client Sample ID:

Date Analyzed: 04/02/13 14:57 Lab File ID: 1CD02010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:50

Lab Sample ID: IC 660-136048/11 Client Sample ID:

Date Analyzed: 04/02/13 15:15 Lab File ID: 1CD02011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/02/13 15:51

Lab Sample ID: ICV 660-136048/12 Client Sample ID:

Date Analyzed: 04/02/13 15:34 Lab File ID: 1CD02012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:57

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Instrument ID: BSMC5973 Analysis Batch Number: 136263

Lab Sample ID: CCVIS 660-136263/3 Client Sample ID:

Date Analyzed: 04/09/13 11:47 Lab File ID: 1CD09003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/13 12:08

Lab Sample ID: LCS 660-136189/2-A Client Sample ID:

Date Analyzed: 04/09/13 15:13 Lab File ID: 1CD09014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	CARLSONR	04/10/13 14:39

Lab Sample ID: 680-88811-44 Client Sample ID: CV1119A-CS

Date Analyzed: 04/09/13 16:26 Lab File ID: 1CD09018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	CARLSONR	04/10/13 15:02
Benzo[k]fluoranthene	8.50	Split Peak	CARLSONR	04/10/13 15:02
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	CARLSONR	04/10/13 15:02

Lab Sample ID: 680-88811-44 MS Client Sample ID: CV1119A-CS MS

Date Analyzed: 04/09/13 16:45 Lab File ID: 1CD09019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	CARLSONR	04/10/13 15:01

Lab Sample ID: 680-88811-44 MSD Client Sample ID: CV1119A-CS MSD

Date Analyzed: 04/09/13 17:03 Lab File ID: 1CD09020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	CARLSONR	04/10/13 15:01

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Instrument ID: BSMC5973 Analysis Batch Number: 136263

Lab Sample ID: 680-88811-47 Client Sample ID: CV1119C-GSD

Date Analyzed: 04/09/13 17:58 Lab File ID: 1CD09023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.48	Split Peak	CARLSONR	04/10/13 14:58
Benzo[k]fluoranthene	8.50	Split Peak	CARLSONR	04/10/13 14:58
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	CARLSONR	04/10/13 14:58

Lab Sample ID: 680-88811-48 Client Sample ID: CV1119D-GS

Date Analyzed: 04/09/13 18:16 Lab File ID: 1CD09024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	CARLSONR	04/10/13 14:56
Benzo[k]fluoranthene	8.50	Split Peak	CARLSONR	04/10/13 14:57
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	CARLSONR	04/10/13 14:57
Benzo[g,h,i]perylene	10.30	Analyte Misidentified by the Data System	CARLSONR	04/10/13 15:07

Lab Sample ID: 680-88811-49 Client Sample ID: CV1120A-CS

Date Analyzed: 04/09/13 18:34 Lab File ID: 1CD09025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	CARLSONR	04/10/13 14:55
Benzo[k]fluoranthene	8.50	Split Peak	CARLSONR	04/10/13 14:55

Lab Sample ID: 680-88811-50 Client Sample ID: CV1120B-CS

Date Analyzed: 04/09/13 18:53 Lab File ID: 1CD09026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	CARLSONR	04/10/13 14:53
Benzo[k]fluoranthene	8.50	Split Peak	CARLSONR	04/10/13 14:54
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	CARLSONR	04/10/13 14:54

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Instrument ID: BSMC5973 Analysis Batch Number: 136263

Lab Sample ID: 680-88811-51 Client Sample ID: CV1121A-CS

Date Analyzed: 04/09/13 19:11 Lab File ID: 1CD09027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	CARLSONR	04/10/13 14:52
Benzo[k]fluoranthene	8.50	Split Peak	CARLSONR	04/10/13 14:53
Benzo[g,h,i]perylene	10.30	Analyte Misidentified by the Data System	CARLSONR	04/10/13 15:07

Lab Sample ID: 680-88811-52 Client Sample ID: CV1121B-CS

Date Analyzed: 04/09/13 19:29 Lab File ID: 1CD09028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.48	Split Peak	CARLSONR	04/10/13 14:51
Benzo[k]fluoranthene	8.49	Split Peak	CARLSONR	04/10/13 14:51
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	CARLSONR	04/10/13 14:51

Lab Sample ID: 680-88811-53 Client Sample ID: CV1121C-CS

Date Analyzed: 04/09/13 19:48 Lab File ID: 1CD09029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	CARLSONR	04/10/13 14:50
Benzo[g,h,i]perylene	10.29	Analyte Misidentified by the Data System	CARLSONR	04/10/13 15:07

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Instrument ID: BSMC5973 Analysis Batch Number: 136263

Lab Sample ID: 680-88811-54 Client Sample ID: CV1122A-CS

Date Analyzed: 04/09/13 20:06 Lab File ID: 1CD09030.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.48	Split Peak	CARLSONR	04/10/13 14:47
Benzo[k]fluoranthene	8.50	Split Peak	CARLSONR	04/10/13 14:48
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	CARLSONR	04/10/13 14:48
Benzo[g,h,i]perylene	10.30	Analyte Misidentified by the Data System	CARLSONR	04/10/13 15:08

Lab Sample ID: 680-88811-55 Client Sample ID: CV1122B-CS

Date Analyzed: 04/09/13 20:24 Lab File ID: 1CD09031.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluorene	5.12	Split Peak	CARLSONR	04/10/13 14:47

Lab Sample ID: 680-88811-56 Client Sample ID: CV1123A-CS

Date Analyzed: 04/09/13 20:43 Lab File ID: 1CD09032.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	CARLSONR	04/10/13 14:45

Lab Sample ID: 680-88811-57 Client Sample ID: CV1123B-CS

Date Analyzed: 04/09/13 21:01 Lab File ID: 1CD09033.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.48	Split Peak	CARLSONR	04/10/13 14:44
Benzo[k]fluoranthene	8.50	Split Peak	CARLSONR	04/10/13 14:44

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Instrument ID: BSMC5973 Analysis Batch Number: 136309

Lab Sample ID: CCVIS 660-136309/3 Client Sample ID:

Date Analyzed: 04/10/13 12:10 Lab File ID: 1CD10003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.94	Split Peak	cantins	04/10/13 12:26

Lab Sample ID: 680-88811-58 Client Sample ID: CV1125A-CS

Date Analyzed: 04/10/13 12:47 Lab File ID: 1CD10005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.47	Split Peak	cantins	04/10/13 13:41
Benzo[k]fluoranthene	8.48	Baseline Event	cantins	04/10/13 13:41
Dibenz(a,h)anthracene	9.93	Baseline Event	cantins	04/10/13 13:42
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/10/13 13:42
Benzo[g,h,i]perylene	10.27	Baseline Event	cantins	04/10/13 13:42

Lab Sample ID: 680-88811-59 Client Sample ID: CV1125B-CS

Date Analyzed: 04/10/13 13:05 Lab File ID: 1CD10006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/10/13 13:43
Dibenz(a,h)anthracene	9.95	Baseline Event	cantins	04/10/13 13:43
Benzo[g,h,i]perylene	10.27	Baseline Event	cantins	04/10/13 13:43

Lab Sample ID: 680-88811-60 Client Sample ID: CV1127A-CS

Date Analyzed: 04/10/13 13:24 Lab File ID: 1CD10007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.47	Split Peak	cantins	04/10/13 13:44
Benzo[k]fluoranthene	8.49	Baseline Event	cantins	04/10/13 13:44
Indeno[1,2,3-cd]pyrene	9.93	Baseline Event	cantins	04/10/13 13:45

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.: 680-88811-3

SDG No.: 68088811-3

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV1119A-CS	680-88811-44	50
CV1119C-GSD	680-88811-47	97
CV1119D-GS	680-88811-48	97
CV1120A-CS	680-88811-49	55
CV1120B-CS	680-88811-50	61
CV1121A-CS	680-88811-51	55
CV1121B-CS	680-88811-52	106
CV1121C-CS	680-88811-53	100
CV1122A-CS	680-88811-54	60
CV1122B-CS	680-88811-55	56
CV1123A-CS	680-88811-56	81
CV1123B-CS	680-88811-57	65
CV1125A-CS	680-88811-58	92
CV1125B-CS	680-88811-59	84
CV1127A-CS	680-88811-60	51
CV1127A-CSD	680-88811-61	60
CV1131A-CS	680-88811-63	59
CV1131B-CS	680-88811-64	59
CV1131C-CS	680-88811-65	66
CV1056A-CS	680-88811-66	45
	MB 660-136189/1-A	77
	MB 660-136204/1-A	65
	LCS 660-136189/2-A	74
	LCS 660-136204/2-A	66
	680-88811-A-62-B MS	50
CV1119A-CS MS	680-88811-44 MS	50
	680-88811-A-62-C MSD	59
CV1119A-CS MSD	680-88811-44 MSD	67

	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.: 680-88811-3

SDG No.: 68088811-3

Matrix: Solid Level: Low Lab File ID: 1CD09014.D

Lab ID: LCS 660-136189/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	660	492	75	39-130	
Acenaphthylene	660	527	80	38-130	
Anthracene	660	503	76	37-130	
Benzo[a]anthracene	660	514	78	40-130	
Benzo[a]pyrene	660	457	69	49-130	
Benzo[b]fluoranthene	660	553	84	37-130	
Benzo[g,h,i]perylene	660	471	71	32-130	
Benzo[k]fluoranthene	660	486	74	32-130	
Chrysene	660	527	80	41-130	
Dibenz(a,h)anthracene	660	515	78	27-130	
Fluoranthene	660	556	84	40-130	
Fluorene	660	512	78	40-130	
Indeno[1,2,3-cd]pyrene	660	481	73	30-130	
1-Methylnaphthalene	660	498	75	31-130	
2-Methylnaphthalene	660	505	77	33-130	
Naphthalene	660	482	73	36-130	
Phenanthrene	660	532	81	42-130	
Pyrene	660	531	81	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.: 680-88811-3

SDG No.: 68088811-3

Matrix: Solid Level: Low Lab File ID: 1AD09017.D

Lab ID: LCS 660-136204/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	650	375	58	39-130	
Acenaphthylene	650	403	62	38-130	
Anthracene	650	412	63	37-130	
Benzo[a]anthracene	650	475	73	40-130	
Benzo[a]pyrene	650	435	67	49-130	
Benzo[b]fluoranthene	650	527	81	37-130	
Benzo[g,h,i]perylene	650	567	87	32-130	
Benzo[k]fluoranthene	650	497	76	32-130	
Chrysene	650	473	73	41-130	
Dibenz(a,h)anthracene	650	597	92	27-130	
Fluoranthene	650	446	69	40-130	
Fluorene	650	404	62	40-130	
Indeno[1,2,3-cd]pyrene	650	538	83	30-130	
1-Methylnaphthalene	650	438	67	31-130	
2-Methylnaphthalene	650	437	67	33-130	
Naphthalene	650	419	64	36-130	
Phenanthrene	650	405	62	42-130	
Pyrene	650	513	79	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.: 680-88811-3

SDG No.: 68088811-3

Matrix: Solid Level: Low Lab File ID: 1AD09020.D

Lab ID: 680-88811-A-62-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	826	120 U	376	45	39-130	
Acenaphthylene	826	49 U	402	49	38-130	
Anthracene	826	40	415	45	37-130	
Benzo[a]anthracene	826	67	482	50	40-130	
Benzo[a]pyrene	826	13 U	459	56	49-130	
Benzo[b]fluoranthene	826	140	647	61	37-130	
Benzo[g,h,i]perylene	826	93	623	64	32-130	
Benzo[k]fluoranthene	826	48	449	49	32-130	
Chrysene	826	110	543	52	41-130	
Dibenz(a,h)anthracene	826	27	633	73	27-130	
Fluoranthene	826	100	464	44	40-130	
Fluorene	826	25 U	401	49	40-130	
Indeno[1,2,3-cd]pyrene	826	110	592	59	30-130	
1-Methylnaphthalene	826	52	443	47	31-130	
2-Methylnaphthalene	826	66	468	49	33-130	
Naphthalene	826	80	437	43	36-130	
Phenanthrene	826	100	467	44	42-130	
Pyrene	826	100	565	56	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.: 680-88811-3

SDG No.: 68088811-3

Matrix: Solid Level: Low Lab File ID: 1CD09019.D

Lab ID: 680-88811-44 MS Client ID: CV1119A-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	819	73 J	422	43	39-130	
Acenaphthylene	819	170	486	38	38-130	
Anthracene	819	280	472	23	37-130	F
Benzo[a]anthracene	819	680	832	18	40-130	F
Benzo[a]pyrene	819	610	773	19	49-130	F
Benzo[b]fluoranthene	819	1300	1290	-0.2	37-130	F
Benzo[g,h,i]perylene	819	490	730	29	32-130	F
Benzo[k]fluoranthene	819	310	759	54	32-130	
Chrysene	819	1100	1140	9	41-130	F
Dibenz(a,h)anthracene	819	170	496	40	27-130	
Fluoranthene	819	1200	879	-43	40-130	F
Fluorene	819	87	415	40	40-130	
Indeno[1,2,3-cd]pyrene	819	410	698	35	30-130	
1-Methylnaphthalene	819	1100	778	-41	31-130	F
2-Methylnaphthalene	819	860	659	-25	33-130	F
Naphthalene	819	330	671	41	36-130	
Phenanthrene	819	1500	856	-82	42-130	F
Pyrene	819	1100	1020	-13	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.: 680-88811-3

SDG No.: 68088811-3

Matrix: Solid Level: Low Lab File ID: 1AD09021.D

Lab ID: 680-88811-A-62-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	813	427	52	13	40	39-130	
Acenaphthylene	813	443	54	10	40	38-130	
Anthracene	813	470	53	12	40	37-130	
Benzo[a]anthracene	813	566	61	16	40	40-130	
Benzo[a]pyrene	813	519	64	12	40	49-130	
Benzo[b]fluoranthene	813	702	69	8	40	37-130	
Benzo[g,h,i]perylene	813	709	76	13	40	32-130	
Benzo[k]fluoranthene	813	541	61	19	40	32-130	
Chrysene	813	645	65	17	40	41-130	
Dibenz(a,h)anthracene	813	713	84	12	40	27-130	
Fluoranthene	813	524	52	12	40	40-130	
Fluorene	813	428	53	7	40	40-130	
Indeno[1,2,3-cd]pyrene	813	665	69	12	40	30-130	
1-Methylnaphthalene	813	538	60	19	40	31-130	
2-Methylnaphthalene	813	558	61	18	40	33-130	
Naphthalene	813	520	54	17	40	36-130	
Phenanthrene	813	562	57	19	40	42-130	
Pyrene	813	620	64	9	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.: 680-88811-3

SDG No.: 68088811-3

Matrix: Solid Level: Low Lab File ID: 1CD09020.D

Lab ID: 680-88811-44 MSD Client ID: CV1119A-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	812	486	51	14	40	39-130	
Acenaphthylene	812	577	50	17	40	38-130	
Anthracene	812	614	41	26	40	37-130	
Benzo[a]anthracene	812	1040	44	23	40	40-130	
Benzo[a]pyrene	812	1120	62	36	40	49-130	
Benzo[b]fluoranthene	812	1820	64	34	40	37-130	
Benzo[g,h,i]perylene	812	977	60	29	40	32-130	
Benzo[k]fluoranthene	812	1050	91	33	40	32-130	
Chrysene	812	1380	38	19	40	41-130	F
Dibenz(a,h)anthracene	812	638	57	25	40	27-130	
Fluoranthene	812	1260	4	36	40	40-130	F
Fluorene	812	479	48	14	40	40-130	
Indeno[1,2,3-cd]pyrene	812	857	55	20	40	30-130	
1-Methylnaphthalene	812	892	-27	14	40	31-130	F
2-Methylnaphthalene	812	845	-2	25	40	33-130	F
Naphthalene	812	729	49	8	40	36-130	
Phenanthrene	812	1120	-50	27	40	42-130	F
Pyrene	812	1370	30	29	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Lab File ID: 1CD09013.D Lab Sample ID: MB 660-136189/1-A

Matrix: Solid Date Extracted: 04/08/2013 06:37

Instrument ID: BSMC5973 Date Analyzed: 04/09/2013 14:55

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136189/2-A	1CD09014.D	04/09/2013 15:13
CV1119A-CS	680-88811-44	1CD09018.D	04/09/2013 16:26
CV1119A-CS MS	680-88811-44 MS	1CD09019.D	04/09/2013 16:45
CV1119A-CS MSD	680-88811-44 MSD	1CD09020.D	04/09/2013 17:03
CV1119C-GSD	680-88811-47	1CD09023.D	04/09/2013 17:58
CV1119D-GS	680-88811-48	1CD09024.D	04/09/2013 18:16
CV1120A-CS	680-88811-49	1CD09025.D	04/09/2013 18:34
CV1120B-CS	680-88811-50	1CD09026.D	04/09/2013 18:53
CV1121A-CS	680-88811-51	1CD09027.D	04/09/2013 19:11
CV1121B-CS	680-88811-52	1CD09028.D	04/09/2013 19:29
CV1121C-CS	680-88811-53	1CD09029.D	04/09/2013 19:48
CV1122A-CS	680-88811-54	1CD09030.D	04/09/2013 20:06
CV1122B-CS	680-88811-55	1CD09031.D	04/09/2013 20:24
CV1123A-CS	680-88811-56	1CD09032.D	04/09/2013 20:43
CV1123B-CS	680-88811-57	1CD09033.D	04/09/2013 21:01
CV1125A-CS	680-88811-58	1CD10005.D	04/10/2013 12:47
CV1125B-CS	680-88811-59	1CD10006.D	04/10/2013 13:05
CV1127A-CS	680-88811-60	1CD10007.D	04/10/2013 13:24

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Lab File ID: 1AD09016.D Lab Sample ID: MB 660-136204/1-A

Matrix: Solid Date Extracted: 04/08/2013 09:32

Instrument ID: BSMA5973 Date Analyzed: 04/09/2013 17:02

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136204/2-A	1AD09017.D	04/09/2013 17:17
CV1127A-CSD	680-88811-61	1AD09018.D	04/09/2013 17:33
	680-88811-A-62-B MS	1AD09020.D	04/09/2013 18:03
	680-88811-A-62-C MSD	1AD09021.D	04/09/2013 18:18
CV1131A-CS	680-88811-63	1AD09022.D	04/09/2013 18:33
CV1131B-CS	680-88811-64	1AD09023.D	04/09/2013 18:48
CV1131C-CS	680-88811-65	1AD09024.D	04/09/2013 19:03
CV1056A-CS	680-88811-66	1AD09025.D	04/09/2013 19:18

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Lab File ID: 1AD09002.D DFTPP Injection Date: 04/09/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 10:18

Analysis Batch No.: 136269

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	22.5	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	24.1	
70	Less than 2.0 % of mass 69	0.2	(0.9)1
127	10.0 - 80.0 % of mass 198	36.0	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.9	
275	10.0 - 60.0 % of mass 198	23.4	
365	Greater than 1.0 % of mass 198	2.4	
441	Present but less than mass 443	11.1	
442	Greater than 50.0 % of mass 198	81.3	
443	15.0 - 24.0 % of mass 442	16.7	(20.5)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-136269/3	1AD09003.D	04/09/2013	10:31
	IC 660-136269/4	1AD09004.D	04/09/2013	10:48
	IC 660-136269/5	1AD09005.D	04/09/2013	11:04
	IC 660-136269/6	1AD09006.D	04/09/2013	11:19
	IC 660-136269/7	1AD09007.D	04/09/2013	11:33
	IC 660-136269/8	1AD09008.D	04/09/2013	11:49
	IC 660-136269/9	1AD09009.D	04/09/2013	12:03
	ICV 660-136269/12	1AD09012.D	04/09/2013	13:51
	MB 660-136204/1-A	1AD09016.D	04/09/2013	17:02
	LCS 660-136204/2-A	1AD09017.D	04/09/2013	17:17
CV1127A-CSD	680-88811-61	1AD09018.D	04/09/2013	17:33
	680-88811-A-62-B MS	1AD09020.D	04/09/2013	18:03
	680-88811-A-62-C MSD	1AD09021.D	04/09/2013	18:18
CV1131A-CS	680-88811-63	1AD09022.D	04/09/2013	18:33
CV1131B-CS	680-88811-64	1AD09023.D	04/09/2013	18:48
CV1131C-CS	680-88811-65	1AD09024.D	04/09/2013	19:03
CV1056A-CS	680-88811-66	1AD09025.D	04/09/2013	19:18

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Lab File ID: 1CD02002.D DFTPP Injection Date: 04/02/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:31

Analysis Batch No.: 136048

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	34.9	
68	Less than 2.0 % of mass 69	0.8	(1.6)1
69	Mass 69 relative abundance	49.9	
70	Less than 2.0 % of mass 69	0.4	(0.9)1
127	10.0 - 80.0 % of mass 198	42.2	
197	Less than 2.0 % of mass 198	0.4	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.6	
275	10.0 - 60.0 % of mass 198	21.5	
365	Greater than 1.0 % of mass 198	3.4	
441	Present but less than mass 443	10.2	
442	Greater than 50.0 % of mass 198	56.7	
443	15.0 - 24.0 % of mass 442	11.0	(19.4)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 660-136048/5	1CD02005.D	04/02/2013	13:26
	IC 660-136048/6	1CD02006.D	04/02/2013	13:44
	IC 660-136048/7	1CD02007.D	04/02/2013	14:02
	IC 660-136048/8	1CD02008.D	04/02/2013	14:20
	ICIS 660-136048/9	1CD02009.D	04/02/2013	14:39
	IC 660-136048/10	1CD02010.D	04/02/2013	14:57
	IC 660-136048/11	1CD02011.D	04/02/2013	15:15
	ICV 660-136048/12	1CD02012.D	04/02/2013	15:34

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Lab File ID: 1CD09002.D DFTPP Injection Date: 04/09/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:31

Analysis Batch No.: 136263

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	37.7	
68	Less than 2.0 % of mass 69	0.6	(1.2)1
69	Mass 69 relative abundance	49.2	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	44.8	
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	6.5	
275	10.0 - 60.0 % of mass 198	19.1	
365	Greater than 1.0 % of mass 198	4.5	
441	Present but less than mass 443	12.1	
442	Greater than 50.0 % of mass 198	81.3	
443	15.0 - 24.0 % of mass 442	18.0	(22.1)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 660-136263/3	1CD09003.D	04/09/2013	11:47
	MB 660-136189/1-A	1CD09013.D	04/09/2013	14:55
	LCS 660-136189/2-A	1CD09014.D	04/09/2013	15:13
CV1119A-CS	680-88811-44	1CD09018.D	04/09/2013	16:26
CV1119A-CS MS	680-88811-44 MS	1CD09019.D	04/09/2013	16:45
CV1119A-CS MSD	680-88811-44 MSD	1CD09020.D	04/09/2013	17:03
CV1119C-GSD	680-88811-47	1CD09023.D	04/09/2013	17:58
CV1119D-GS	680-88811-48	1CD09024.D	04/09/2013	18:16
CV1120A-CS	680-88811-49	1CD09025.D	04/09/2013	18:34
CV1120B-CS	680-88811-50	1CD09026.D	04/09/2013	18:53
CV1121A-CS	680-88811-51	1CD09027.D	04/09/2013	19:11
CV1121B-CS	680-88811-52	1CD09028.D	04/09/2013	19:29
CV1121C-CS	680-88811-53	1CD09029.D	04/09/2013	19:48
CV1122A-CS	680-88811-54	1CD09030.D	04/09/2013	20:06
CV1122B-CS	680-88811-55	1CD09031.D	04/09/2013	20:24
CV1123A-CS	680-88811-56	1CD09032.D	04/09/2013	20:43
CV1123B-CS	680-88811-57	1CD09033.D	04/09/2013	21:01

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Lab File ID: 1CD10002.D DFTPP Injection Date: 04/10/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:53

Analysis Batch No.: 136309

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	39.7	
68	Less than 2.0 % of mass 69	0.4	(0.9)1
69	Mass 69 relative abundance	49.4	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	46.7	
197	Less than 2.0 % of mass 198	1.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.9	
275	10.0 - 60.0 % of mass 198	19.9	
365	Greater than 1.0 % of mass 198	4.5	
441	Present but less than mass 443	12.8	
442	Greater than 50.0 % of mass 198	68.7	
443	15.0 - 24.0 % of mass 442	12.9	(18.8)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136309/3	1CD10003.D	04/10/2013	12:10
CV1125A-CS	680-88811-58	1CD10005.D	04/10/2013	12:47
CV1125B-CS	680-88811-59	1CD10006.D	04/10/2013	13:05
CV1127A-CS	680-88811-60	1CD10007.D	04/10/2013	13:24

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Sample No.: ICIS 660-136269/3 Date Analyzed: 04/09/2013 10:31

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

Lab File ID (Standard): 1AD09003.D Heated Purge: (Y/N) N

Calibration ID: 2879

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1629167	2.59	861420	3.62	1542880	4.57
UPPER LIMIT		3258334	3.09	1722840	4.12	3085760	5.07
LOWER LIMIT		814584	2.09	430710	3.12	771440	4.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136269/12		1542771	2.59	886874	3.63	1631736	4.58
MB 660-136204/1-A		1916870	2.59	1051217	3.62	1762582	4.58
LCS 660-136204/2-A		1540472	2.59	847699	3.62	1453725	4.57
680-88811-61	CV1127A-CSD	1710192	2.59	892990	3.62	1454131	4.58
680-88811-A-62-B MS		1748759	2.59	960900	3.62	1567181	4.58
680-88811-A-62-C MSD		1677219	2.59	937268	3.62	1492622	4.58
680-88811-63	CV1131A-CS	1567279	2.59	804546	3.62	1261172	4.58
680-88811-64	CV1131B-CS	1686031	2.60	867118	3.63	1438639	4.58
680-88811-65	CV1131C-CS	1679507	2.60	873817	3.63	1427818	4.58
680-88811-66	CV1056A-CS	1713354	2.59	910906	3.63	1401319	4.58

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.: 680-88811-3

SDG No.: 68088811-3

Sample No.: ICIS 660-136269/3 Date Analyzed: 04/09/2013 10:31

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

Lab File ID (Standard): 1AD09003.D Heated Purge: (Y/N) N

Calibration ID: 2879

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1527423	6.60	1682694	7.68		
UPPER LIMIT		3054846	7.10	3365388	8.18		
LOWER LIMIT		763712	6.10	841347	7.18		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136269/12		1541115	6.60	1781032	7.69		
MB 660-136204/1-A		1793207	6.60	1797409	7.69		
LCS 660-136204/2-A		1376979	6.59	1441786	7.68		
680-88811-61	CV1127A-CSD	1261525	6.60	1497273	7.68		
680-88811-A-62-B MS		1379129	6.60	1623227	7.69		
680-88811-A-62-C MSD		1306292	6.60	1571839	7.69		
680-88811-63	CV1131A-CS	1201691	6.60	1447368	7.69		
680-88811-64	CV1131B-CS	1365632	6.60	1511321	7.69		
680-88811-65	CV1131C-CS	1316176	6.60	1527749	7.69		
680-88811-66	CV1056A-CS	1385071	6.61	1593073	7.69		

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.: 680-88811-3

SDG No.: 68088811-3

Sample No.: ICIS 660-136048/9 Date Analyzed: 04/02/2013 14:39

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

Lab File ID (Standard): 1CD02009.D Heated Purge: (Y/N) N

Calibration ID: 2859

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		501011	3.71	361349	4.80	702974	5.75
UPPER LIMIT		1002022	4.21	722698	5.30	1405948	6.25
LOWER LIMIT		250506	3.21	180675	4.30	351487	5.25
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136048/12		649122	3.71	500935	4.80	955391	5.75

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.: 680-88811-3

SDG No.: 68088811-3

Sample No.: ICIS 660-136048/9 Date Analyzed: 04/02/2013 14:39

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

Lab File ID (Standard): 1CD02009.D Heated Purge: (Y/N) N

Calibration ID: 2859

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		875378	7.69	942955	8.86		
UPPER LIMIT		1750756	8.19	1885910	9.36		
LOWER LIMIT		437689	7.19	471478	8.36		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136048/12		1249690	7.69	1306409	8.86		

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.: 680-88811-3

SDG No.: 68088811-3

Sample No.: CCVIS 660-136263/3 Date Analyzed: 04/09/2013 11:47

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

Lab File ID (Standard): 1CD09003.D Heated Purge: (Y/N) N

Calibration ID: 2859

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		357710	3.69	263195	4.77	531432	5.72
UPPER LIMIT		715420	4.19	526390	5.27	1062864	6.22
LOWER LIMIT		178855	3.19	131598	4.27	265716	5.22
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136189/1-A		345646	3.69	281898	4.77	525675	5.72
LCS 660-136189/2-A		344087	3.69	255819	4.77	496129	5.72
680-88811-44	CV1119A-CS	336760	3.69	259686	4.77	495354	5.72
680-88811-44 MS	CV1119A-CS MS	381754	3.69	293662	4.77	559568	5.72
680-88811-44 MSD	CV1119A-CS MSD	423377	3.69	316705	4.77	569543	5.72
680-88811-47	CV1119C-GSD	399221	3.69	289210	4.77	534166	5.72
680-88811-48	CV1119D-GS	405957	3.69	303678	4.77	550100	5.72
680-88811-49	CV1120A-CS	391981	3.69	291134	4.77	527978	5.72
680-88811-50	CV1120B-CS	410150	3.69	294600	4.77	553524	5.72
680-88811-51	CV1121A-CS	375792	3.69	288775	4.77	545193	5.72
680-88811-52	CV1121B-CS	373641	3.69	281393	4.77	489897	5.72
680-88811-53	CV1121C-CS	408620	3.69	309214	4.77	555659	5.72
680-88811-54	CV1122A-CS	399800	3.69	287691	4.77	553880	5.72
680-88811-55	CV1122B-CS	401128	3.69	304796	4.77	546805	5.72
680-88811-56	CV1123A-CS	387463	3.69	287947	4.77	495805	5.72
680-88811-57	CV1123B-CS	385222	3.69	301923	4.77	527016	5.72

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.: 680-88811-3

SDG No.: 68088811-3

Sample No.: CCVIS 660-136263/3 Date Analyzed: 04/09/2013 11:47

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

Lab File ID (Standard): 1CD09003.D Heated Purge: (Y/N) N

Calibration ID: 2859

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		649492	7.66	642611	8.83		
UPPER LIMIT		1298984	8.16	1285222	9.33		
LOWER LIMIT		324746	7.16	321306	8.33		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136189/1-A		588358	7.65	537708	8.82		
LCS 660-136189/2-A		586252	7.65	559628	8.82		
680-88811-44	CV1119A-CS	560980	7.66	538064	8.82		
680-88811-44 MS	CV1119A-CS MS	607668	7.66	562127	8.83		
680-88811-44 MSD	CV1119A-CS MSD	628669	7.66	566055	8.82		
680-88811-47	CV1119C-GSD	548119	7.66	530574	8.82		
680-88811-48	CV1119D-GS	550917	7.66	529362	8.82		
680-88811-49	CV1120A-CS	562871	7.66	536073	8.82		
680-88811-50	CV1120B-CS	580660	7.66	545739	8.82		
680-88811-51	CV1121A-CS	563394	7.66	535061	8.82		
680-88811-52	CV1121B-CS	496321	7.65	474433	8.82		
680-88811-53	CV1121C-CS	554419	7.65	521029	8.82		
680-88811-54	CV1122A-CS	574520	7.66	524547	8.82		
680-88811-55	CV1122B-CS	562133	7.65	521214	8.82		
680-88811-56	CV1123A-CS	524444	7.66	506862	8.82		
680-88811-57	CV1123B-CS	563260	7.66	502500	8.82		

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.: 680-88811-3

SDG No.: 68088811-3

Sample No.: CCVIS 660-136309/3 Date Analyzed: 04/10/2013 12:10

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

Lab File ID (Standard): 1CD10003.D Heated Purge: (Y/N) N

Calibration ID: 2859

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		324897	3.68	222702	4.77	427547	5.71
UPPER LIMIT		649794	4.18	445404	5.27	855094	6.21
LOWER LIMIT		162449	3.18	111351	4.27	213774	5.21
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88811-58	CV1125A-CS	307394	3.68	220780	4.77	411244	5.71
680-88811-59	CV1125B-CS	350279	3.68	240452	4.76	443099	5.71
680-88811-60	CV1127A-CS	362800	3.68	257256	4.77	491662	5.71

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.: 680-88811-3

SDG No.: 68088811-3

Sample No.: CCVIS 660-136309/3 Date Analyzed: 04/10/2013 12:10

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

Lab File ID (Standard): 1CD10003.D Heated Purge: (Y/N) N

Calibration ID: 2859

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		562910	7.65	541225	8.81		
UPPER LIMIT		1125820	8.15	1082450	9.31		
LOWER LIMIT		281455	7.15	270613	8.31		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88811-58	CV1125A-CS	514167	7.65	540026	8.81		
680-88811-59	CV1125B-CS	561969	7.65	572162	8.81		
680-88811-60	CV1127A-CS	605946	7.65	572420	8.81		

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.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1119A-CS | Lab Sample ID: 680-88811-44

Matrix: Solid | Lab File ID: 1CD09018.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 09:15

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.02(g) | Date Analyzed: 04/09/2013 16:26

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

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

% Moisture: 19.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	73	J	120	25
208-96-8	Acenaphthylene	170		49	6.2
120-12-7	Anthracene	280	F	10	5.2
56-55-3	Benzo[a]anthracene	680	F	9.9	4.8
50-32-8	Benzo[a]pyrene	610	F	13	6.4
205-99-2	Benzo[b]fluoranthene	1300	F	15	7.5
191-24-2	Benzo[g,h,i]perylene	490	F	25	5.4
207-08-9	Benzo[k]fluoranthene	310		9.9	4.5
218-01-9	Chrysene	1100	F	11	5.6
53-70-3	Dibenz(a,h)anthracene	170		25	5.1
206-44-0	Fluoranthene	1200	F	25	4.9
86-73-7	Fluorene	87		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	410		25	8.8
90-12-0	1-Methylnaphthalene	1100	F	49	5.4
91-57-6	2-Methylnaphthalene	860	F	49	8.8
91-20-3	Naphthalene	330		49	5.4
85-01-8	Phenanthrene	1500	F	9.9	4.8
129-00-0	Pyrene	1100	F	25	4.6

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

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09018.D
Lab Smp Id: 680-88811-A-44-A Client Smp ID: CV1119A-CS
Inj Date : 09-APR-2013 16:26
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-44-a
Misc Info : 680-88811-A-44-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	19.256	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.686	3.686	(1.000)	336760	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.774	(1.000)	259686	40.0000	
* 10 Phenanthrene-d10	188	5.716	5.716	(1.000)	495354	40.0000	
$ 14 o-Terphenyl	230	5.968	5.968	(1.044)	34739	5.02191	414.0841
* 18 Chrysene-d12	240	7.657	7.657	(1.000)	560980	40.0000	
* 23 Perylene-d12	264	8.821	8.827	(1.000)	538064	40.0000	
2 Naphthalene	128	3.698	3.698	(1.003)	35009	4.04747	333.7360
3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	61410	10.4298	859.9962
4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	71632	13.5206	1114.8491
5 Acenaphthylene	152	4.686	4.686	(0.982)	22287	2.07364	170.9831
7 Acenaphthene	154	4.792	4.792	(1.004)	5917	0.88886	73.2915(Q)
9 Fluorene	166	5.110	5.110	(1.070)	9336	1.05204	86.7463(Q)
11 Phenanthrene	178	5.733	5.733	(1.003)	267289	18.5270	1527.6528
12 Anthracene	178	5.768	5.768	(1.009)	50514	3.45401	284.8020

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.874	5.874	(1.028)	23448	1.87140	154.3069
15 Fluoranthene	202	6.568	6.568	(1.149)	237815	14.9261	1230.7406
16 Pyrene	202	6.733	6.733	(0.879)	211798	13.6296	1123.8349
17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	132735	8.30175	684.5253
19 Chrysene	228	7.674	7.674	(1.002)	207612	12.9875	1070.8945
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	239140	15.7210	1296.2816(M)
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.964)	56170	3.81790	314.8068(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	106721	7.45191	614.4512
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.129)	67827	4.98636	411.1527(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.974	(1.130)	26265	2.09024	172.3522
26 Benzo(g,h,i)perylene	276	10.298	10.298	(1.167)	82345	5.93136	489.0734

QC Flag Legend

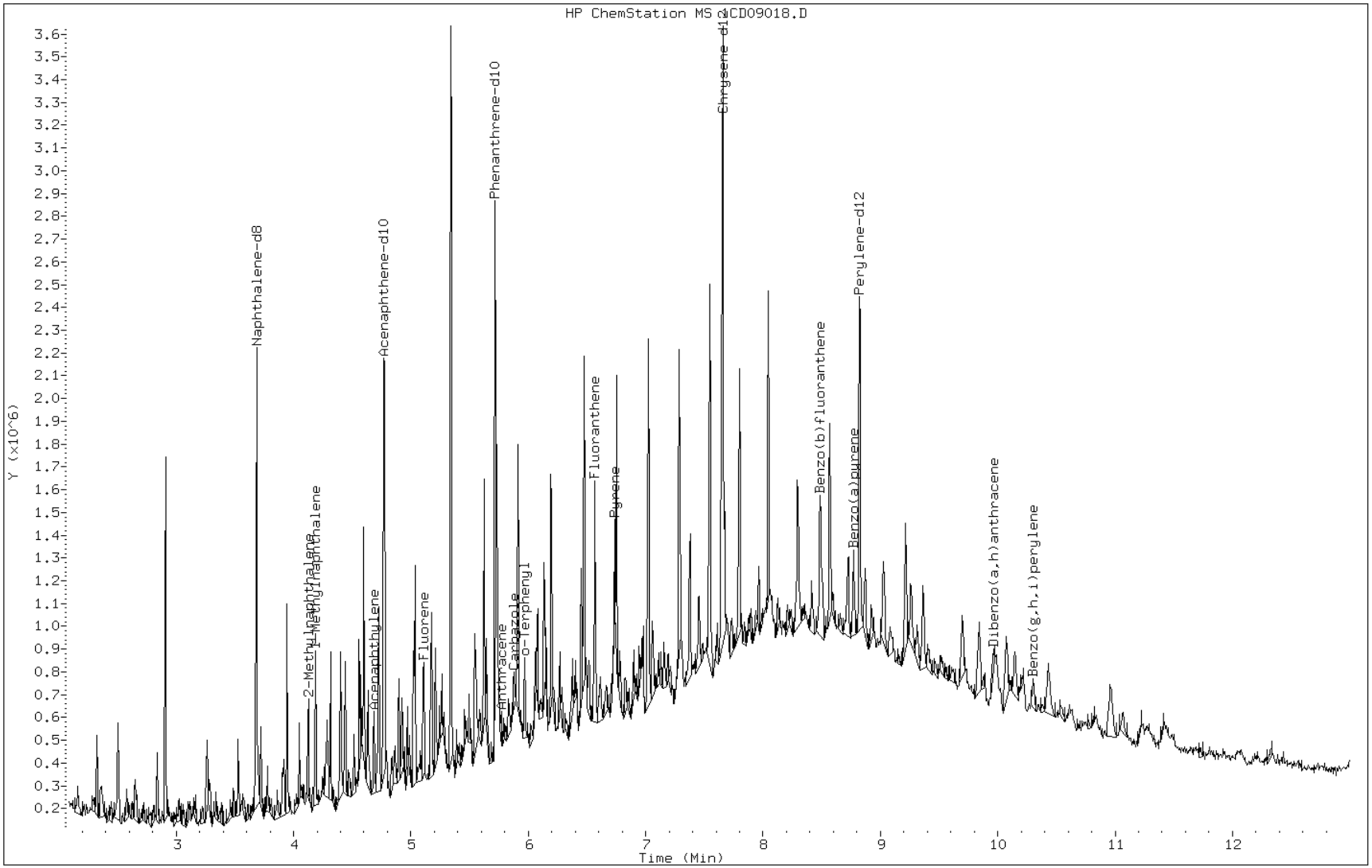
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC



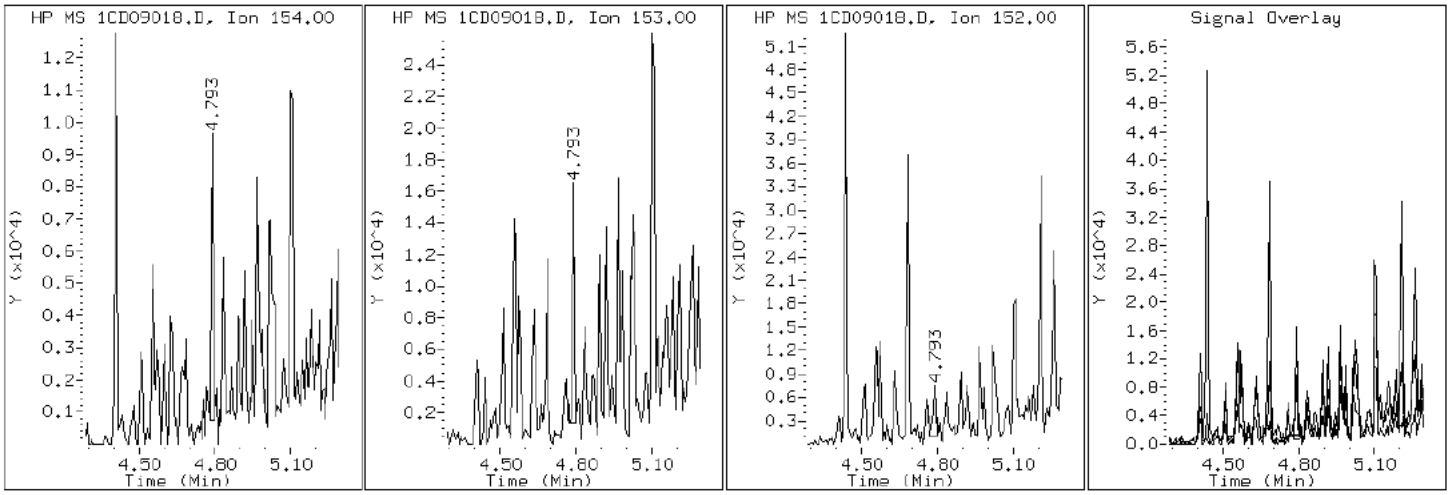
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

7 Acenaphthene



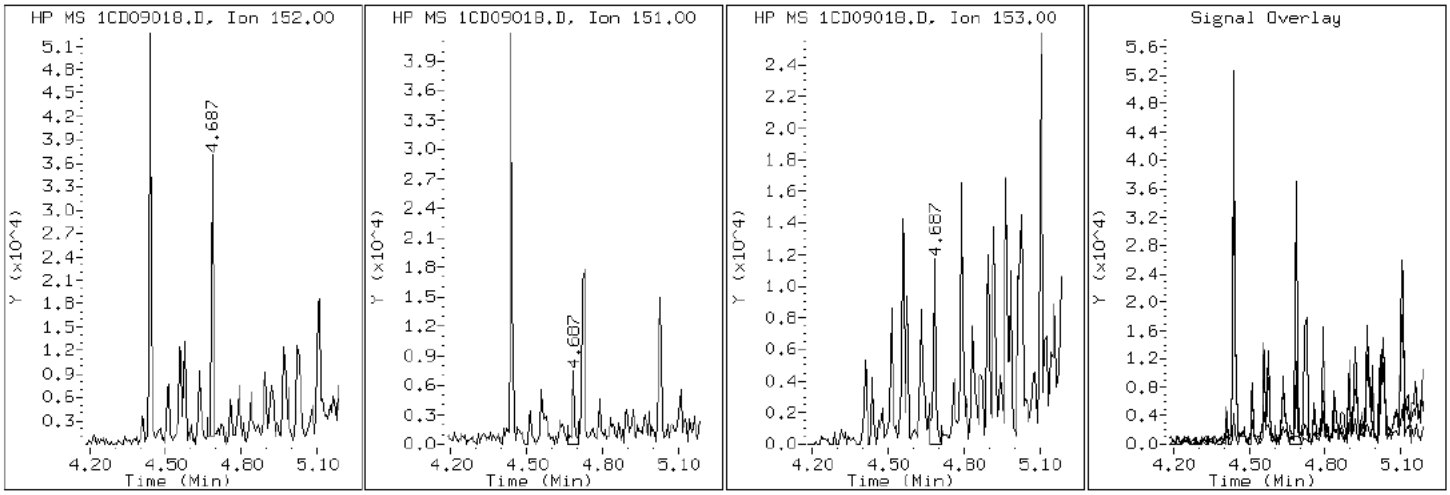
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

5 Acenaphthylene



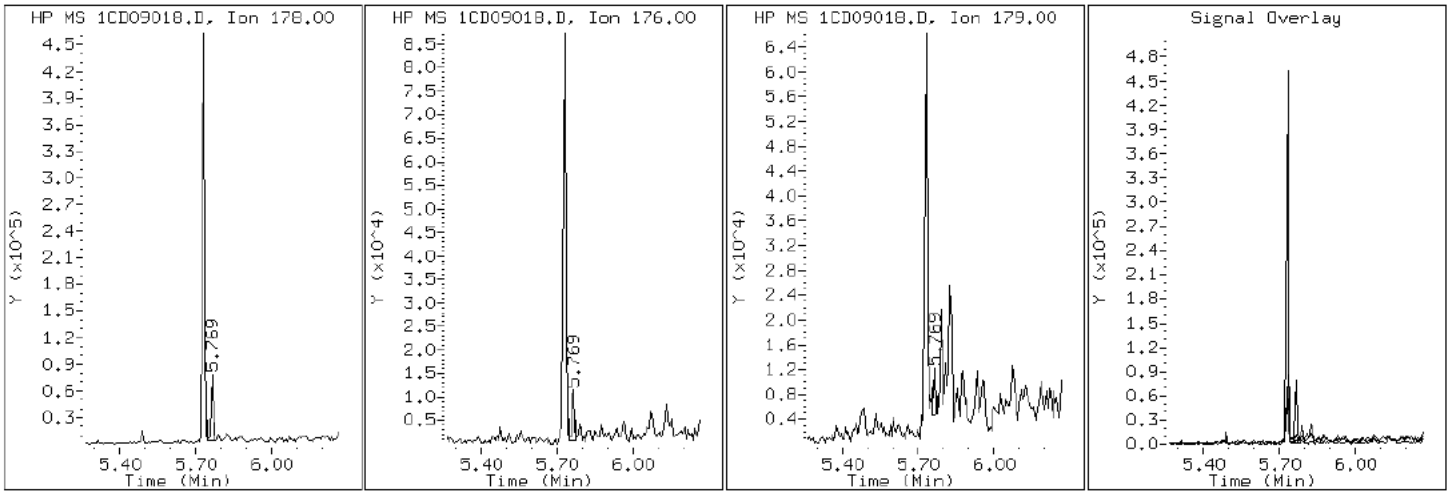
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

12 Anthracene



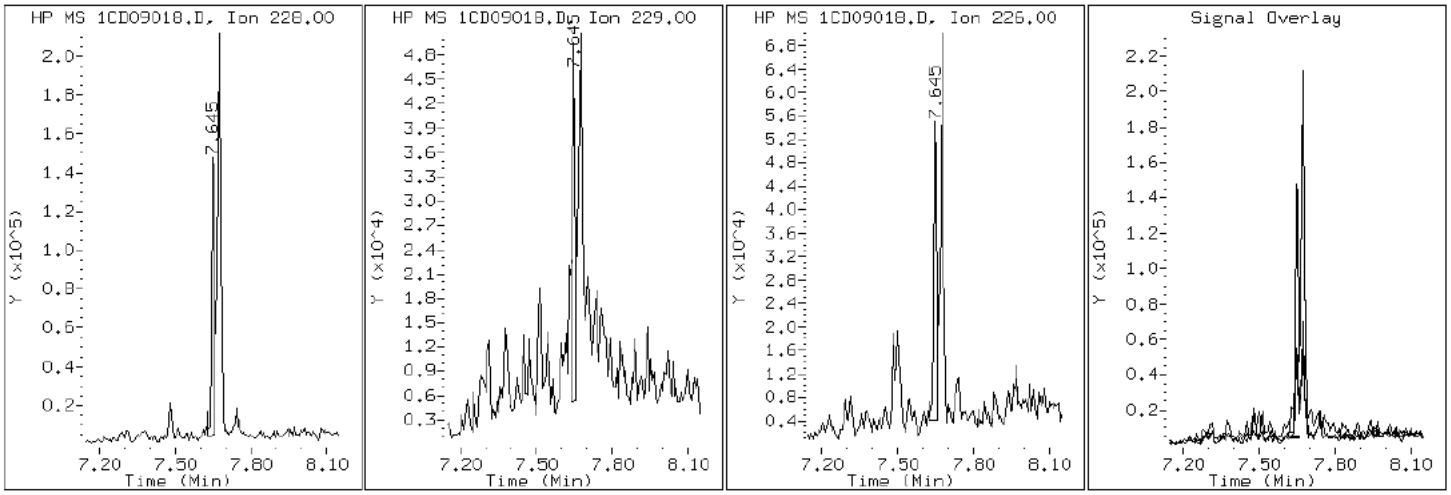
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

17 Benzo(a)anthracene



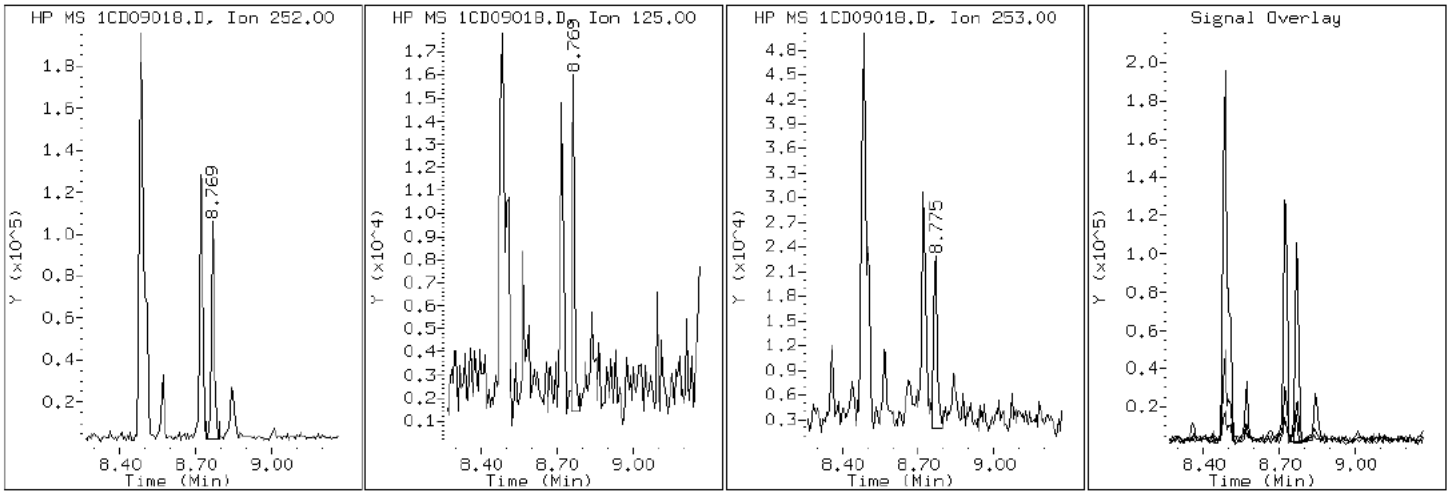
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

22 Benzo(a)pyrene



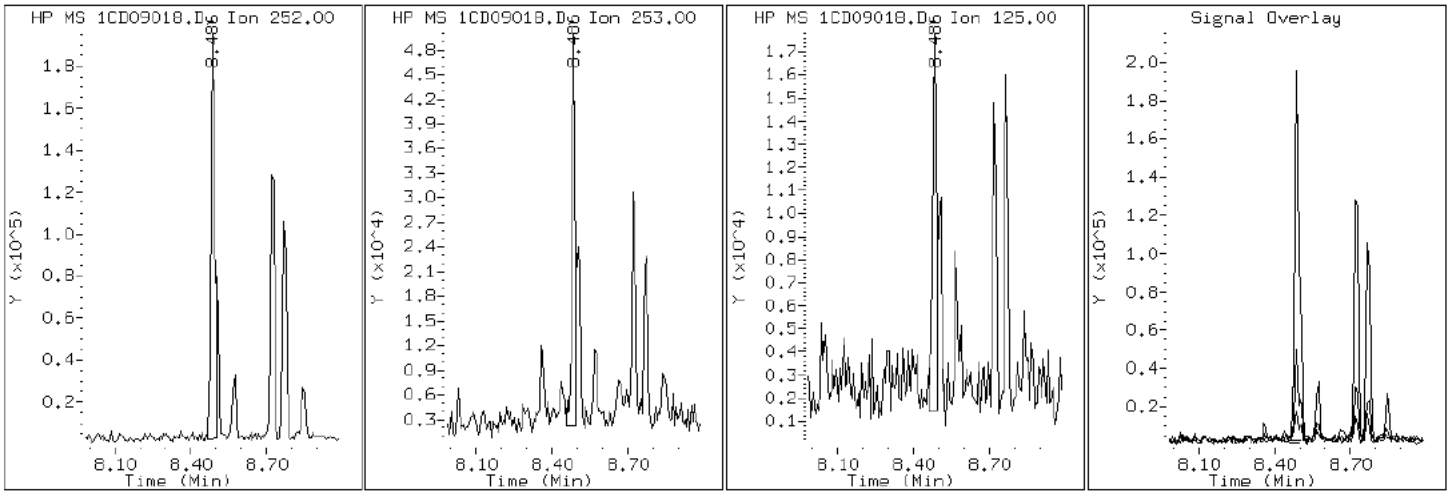
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

20 Benzo(b)fluoranthene



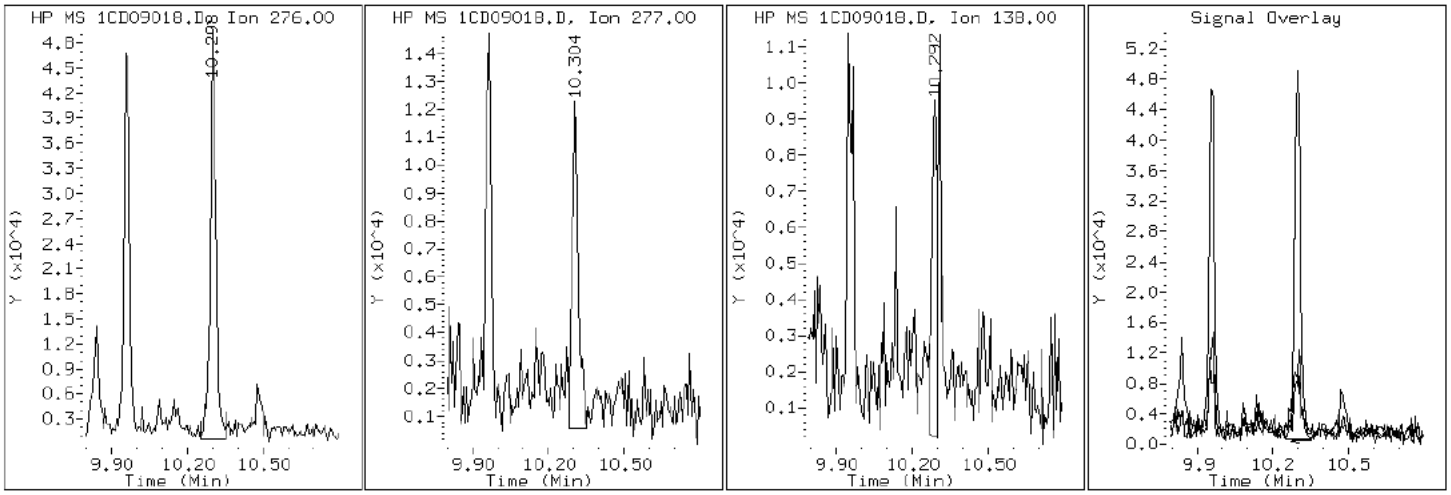
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

26 Benzo(g,h,i)perylene



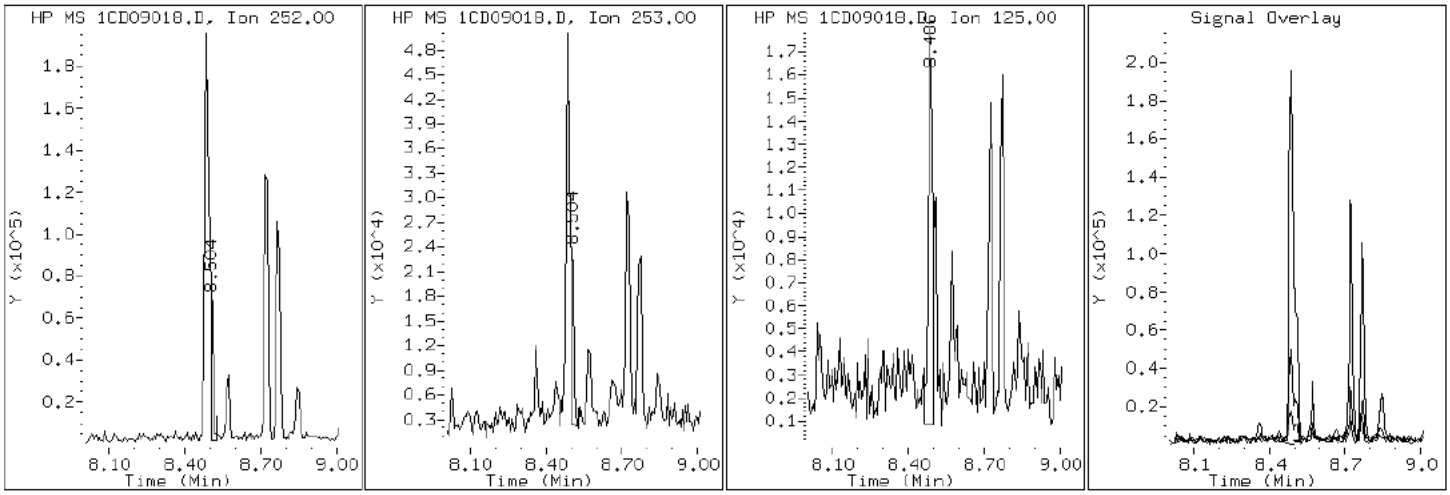
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

21 Benzo(k)fluoranthene



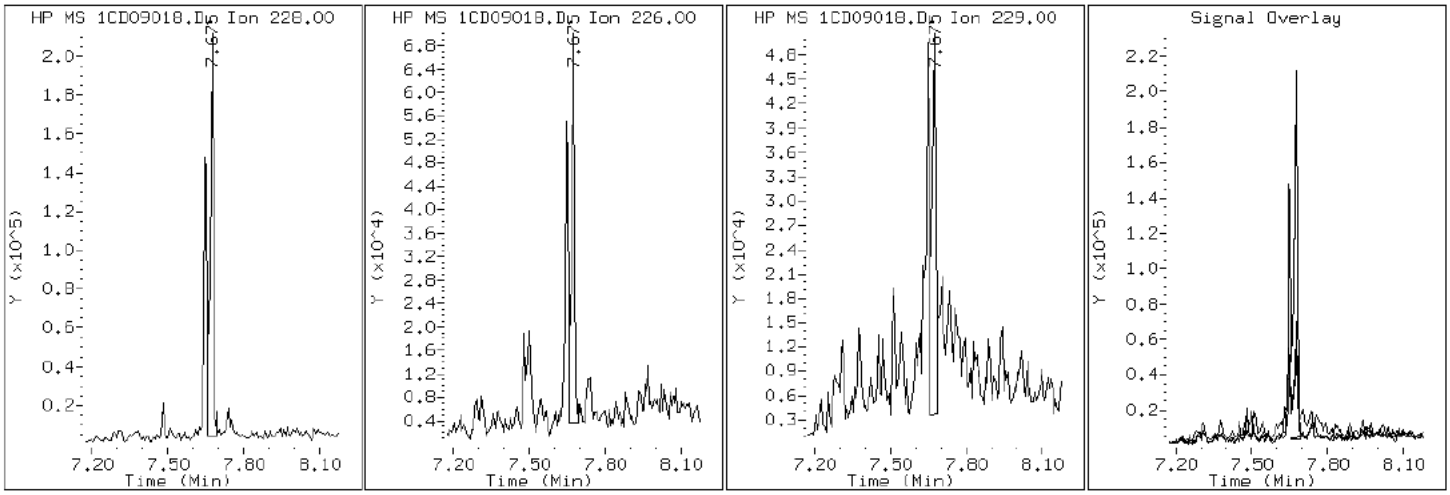
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

19 Chrysene



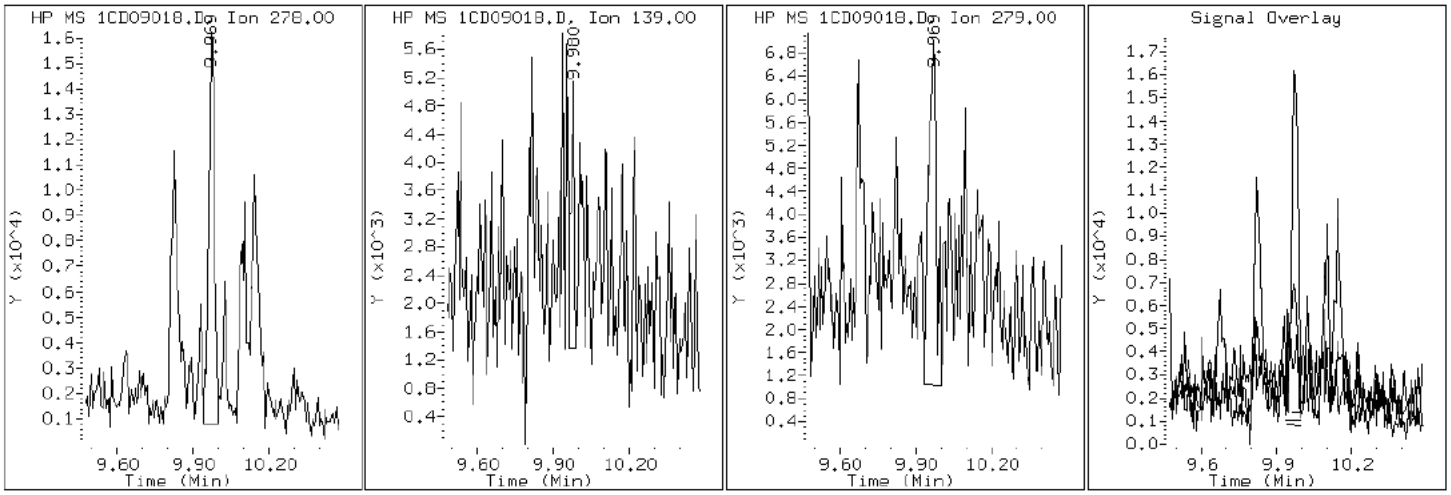
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

25 Dibenzo(a,h)anthracene



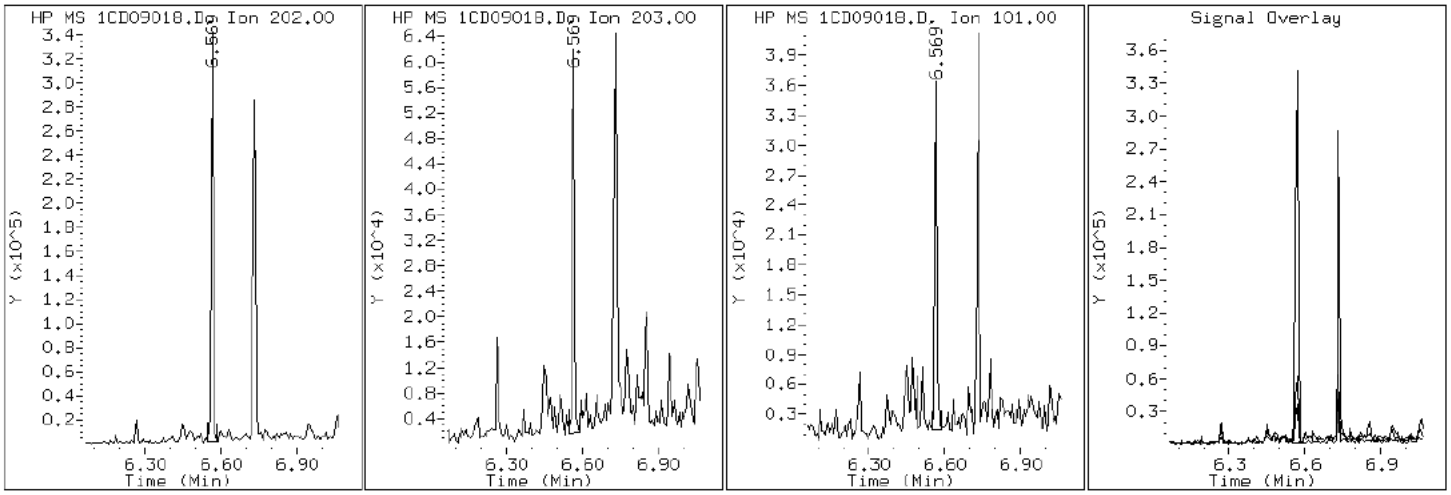
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

15 Fluoranthene



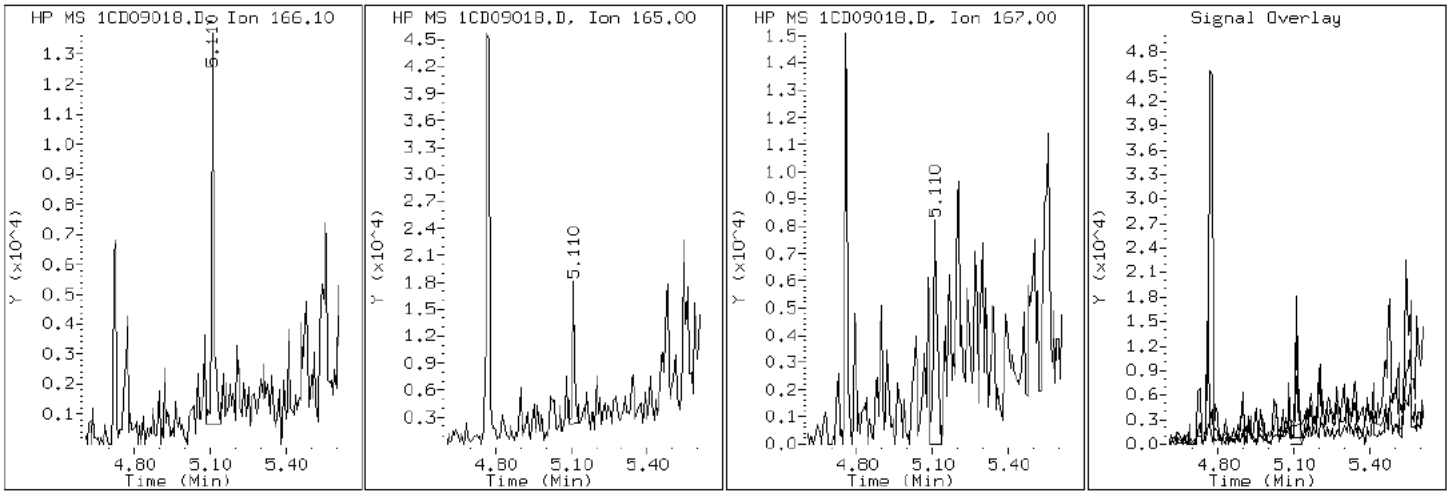
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

9 Fluorene



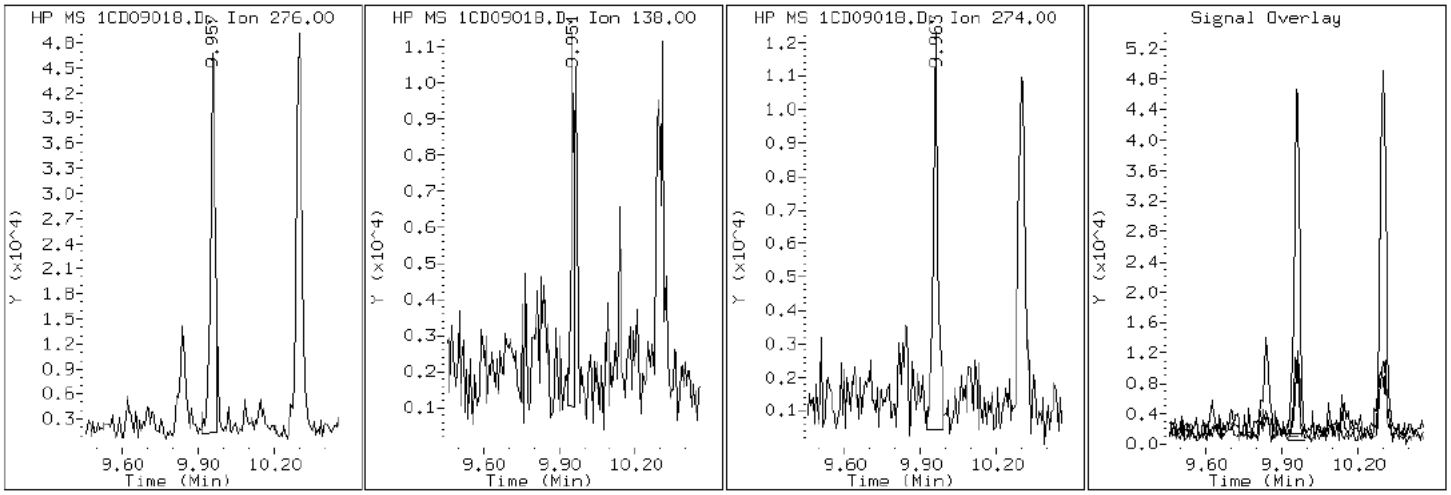
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

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



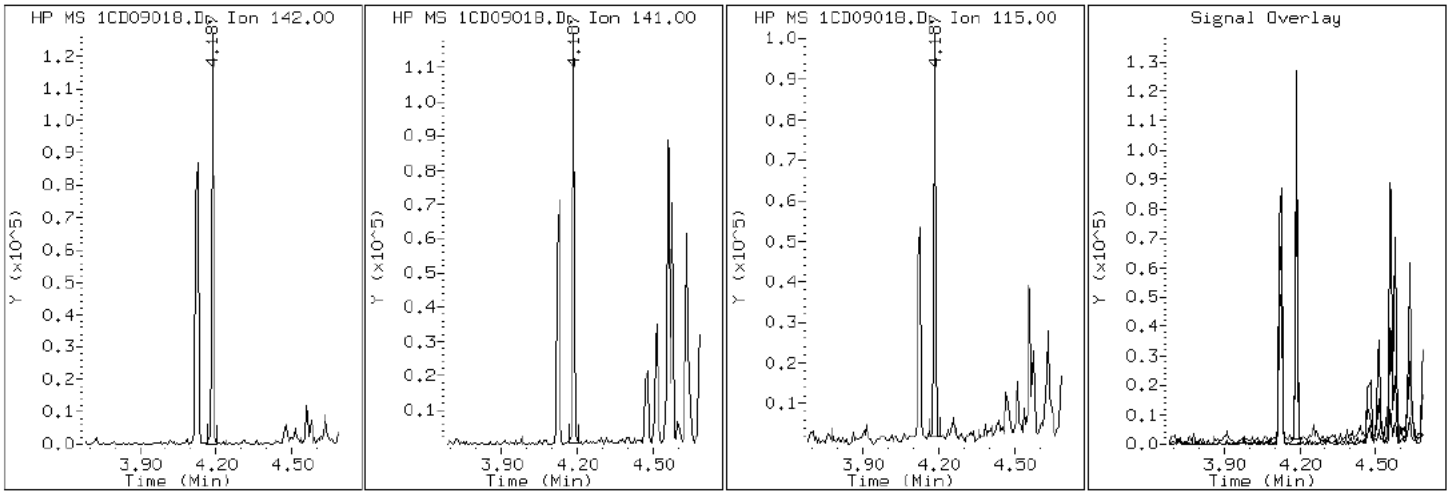
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

4 1-Methylnaphthalene



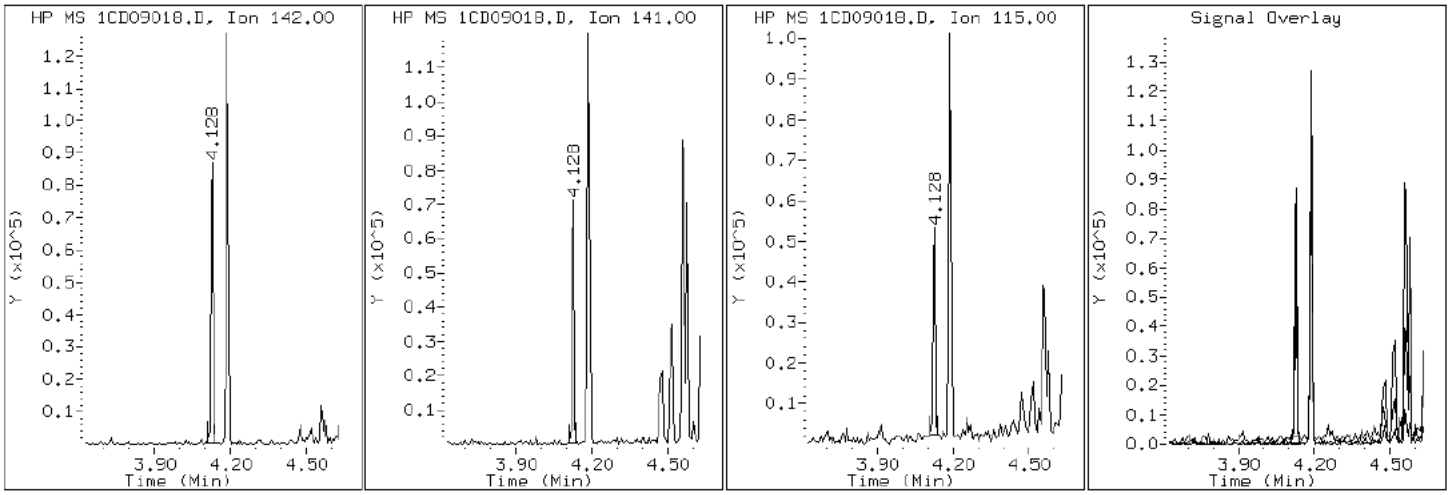
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

3 2-Methylnaphthalene



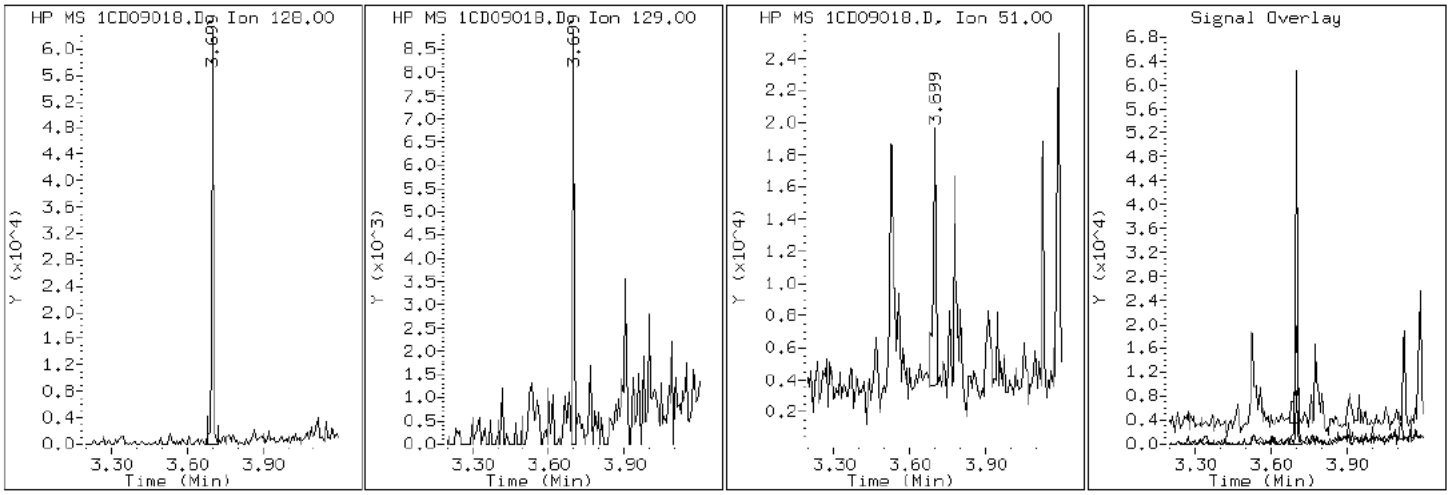
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

2 Naphthalene



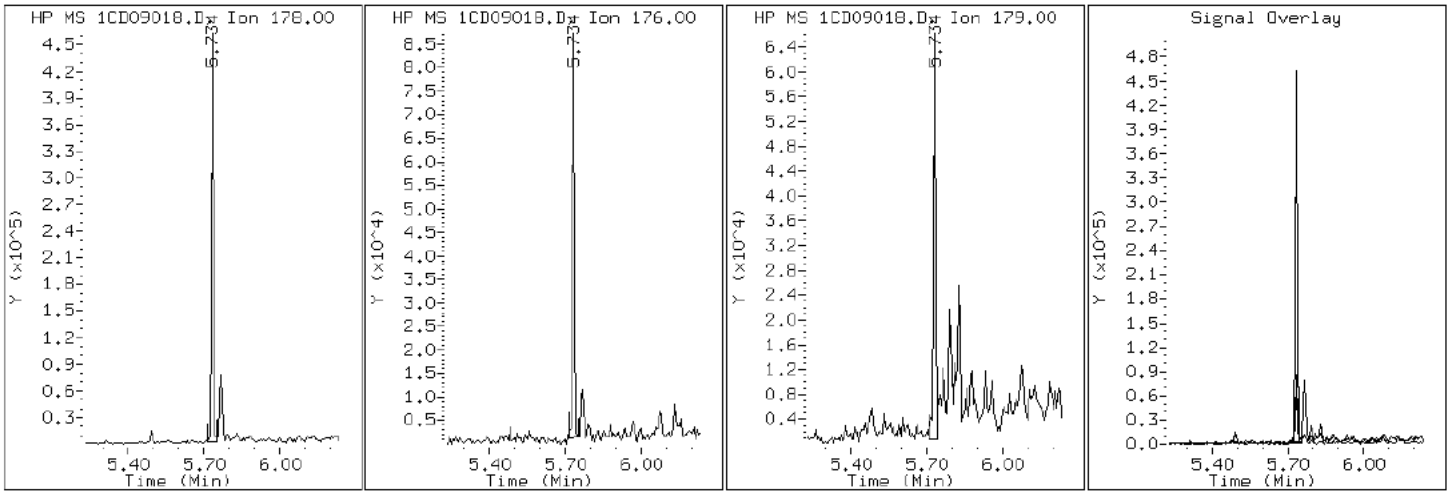
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

11 Phenanthrene



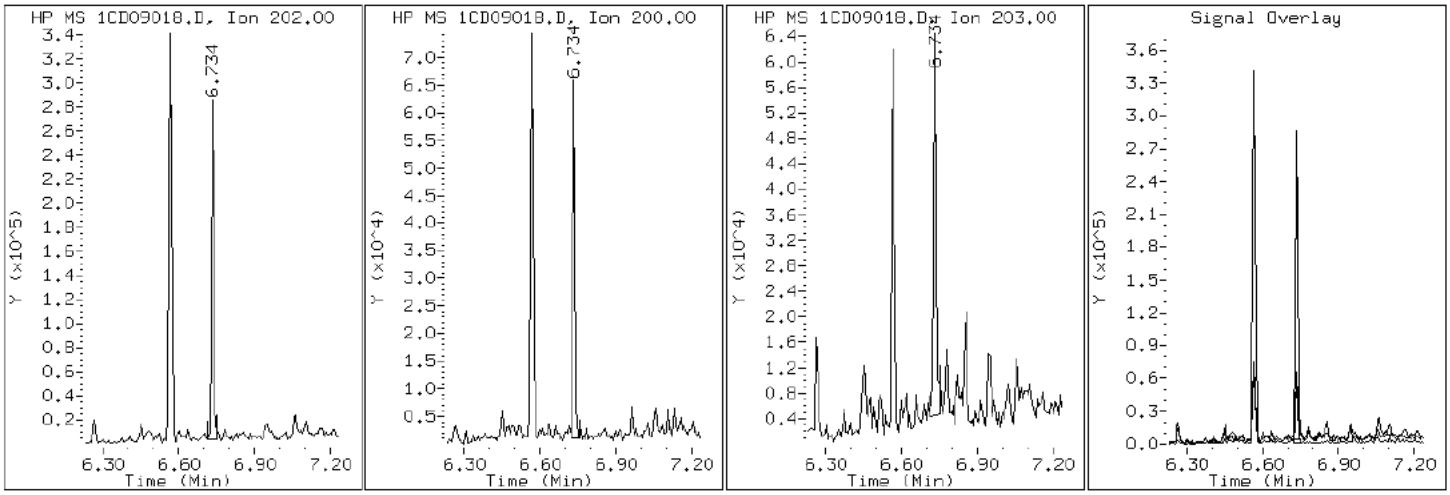
Data File: 1CD09018.D

Date: 09-APR-2013 16:26

Client ID: CV1119A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD09018.D
Inj. Date and Time: 09-APR-2013 16:26
Instrument ID: BSMC5973.i
Client ID: CV1119A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

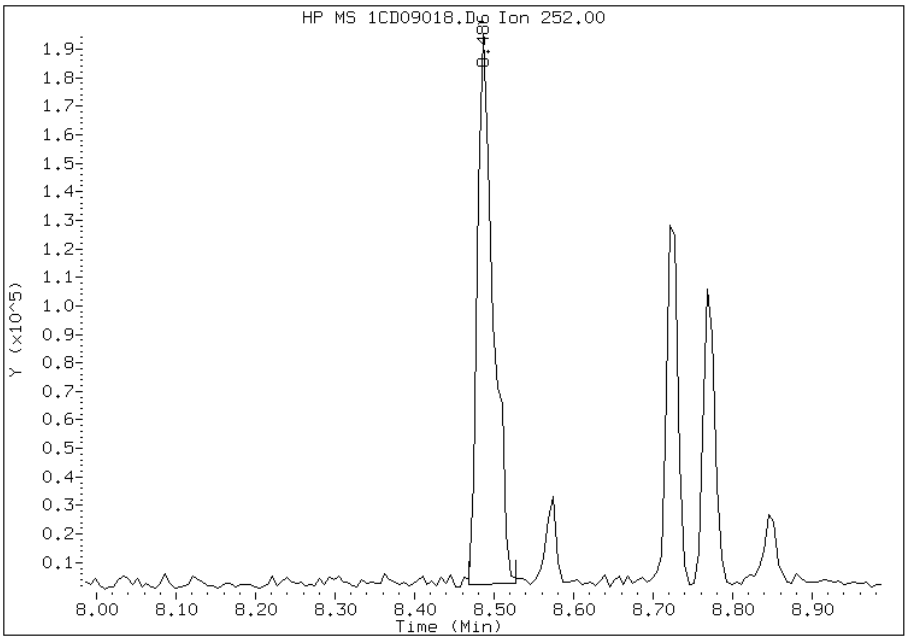
Processing Integration Results

RT: 8.49

Response: 269121

Amount: 18

Conc: 1459



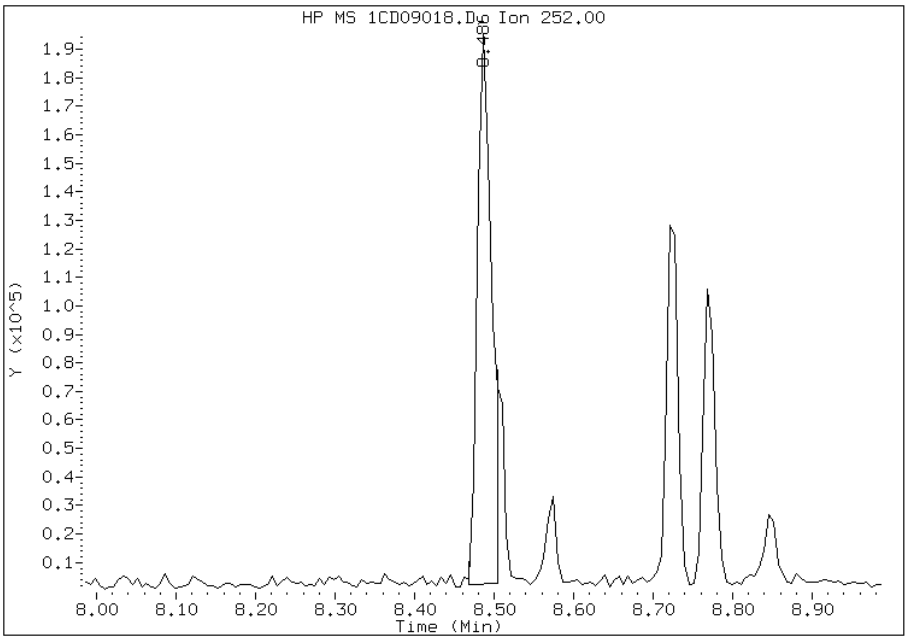
Manual Integration Results

RT: 8.49

Response: 239140

Amount: 16

Conc: 1296



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 15:02
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09018.D
Inj. Date and Time: 09-APR-2013 16:26
Instrument ID: BSMC5973.i
Client ID: CV1119A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

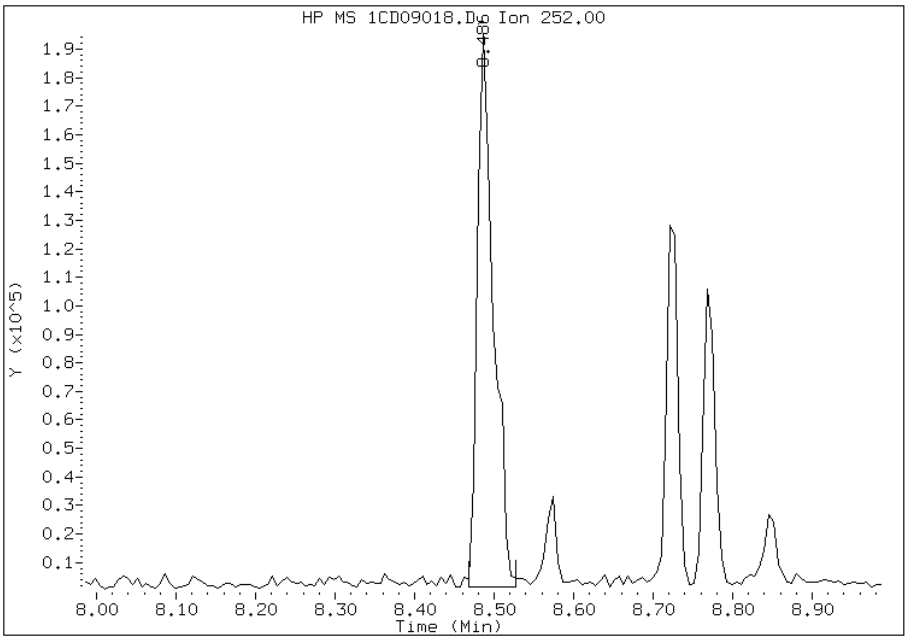
Processing Integration Results

RT: 8.49

Response: 273150

Amount: 19

Conc: 1531



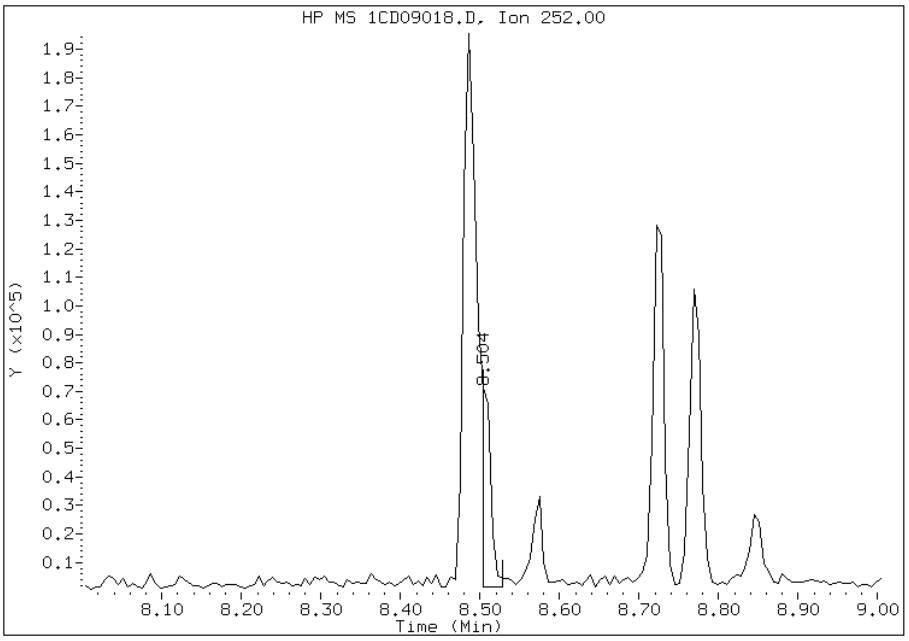
Manual Integration Results

RT: 8.50

Response: 56170

Amount: 4

Conc: 315



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 15:02
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09018.D
Inj. Date and Time: 09-APR-2013 16:26
Instrument ID: BSMC5973.i
Client ID: CV1119A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

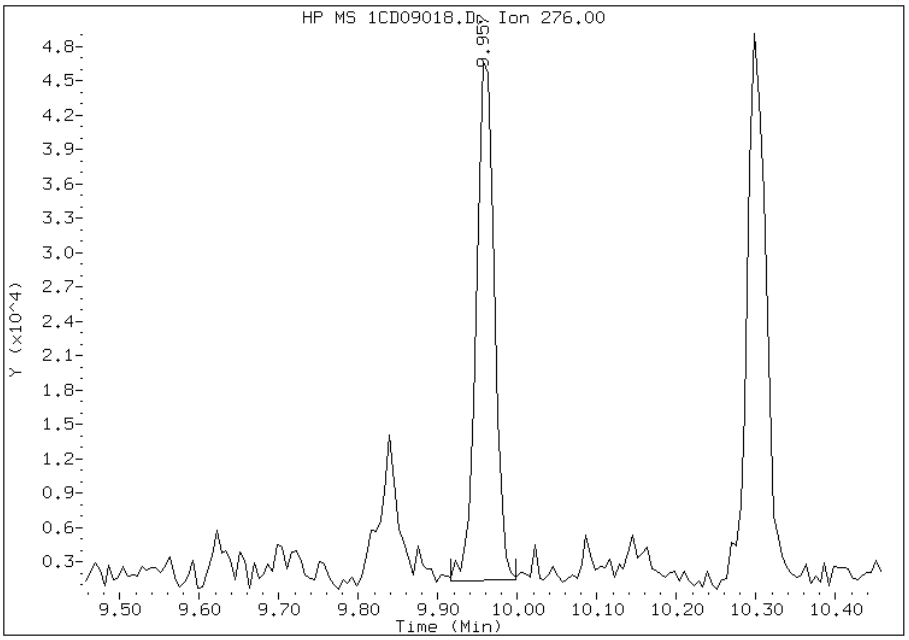
Processing Integration Results

RT: 9.96

Response: 71069

Amount: 5

Conc: 431



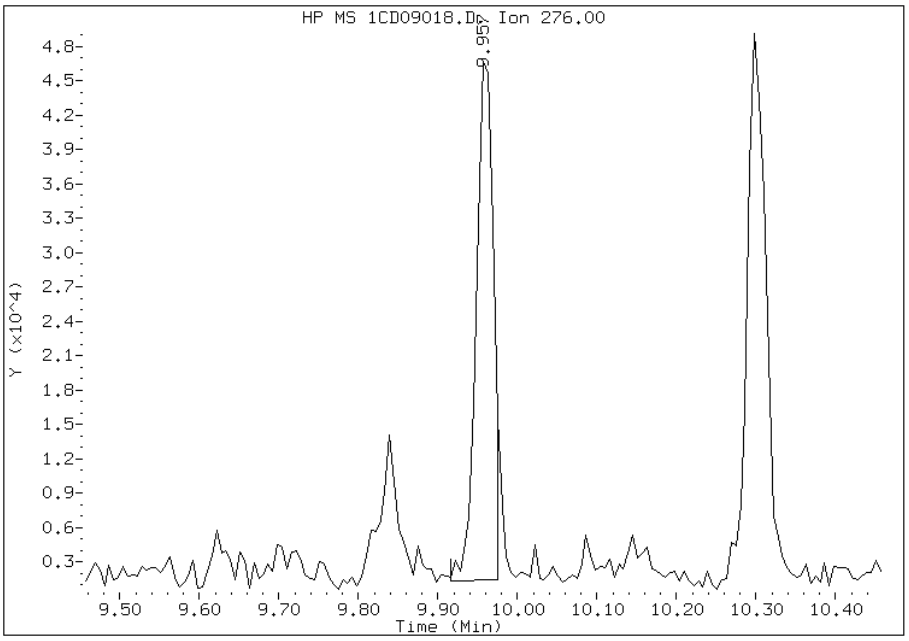
Manual Integration Results

RT: 9.96

Response: 67827

Amount: 5

Conc: 411



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 15:02
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1119C-GSD | Lab Sample ID: 680-88811-47

Matrix: Solid | Lab File ID: 1CD09023.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 09:35

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 14.90(g) | Date Analyzed: 04/09/2013 17:58

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.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	200	J	210	26
120-12-7	Anthracene	130		44	22
56-55-3	Benzo[a]anthracene	880		41	20
50-32-8	Benzo[a]pyrene	820		54	27
205-99-2	Benzo[b]fluoranthene	1600		63	32
191-24-2	Benzo[g,h,i]perylene	590		100	23
207-08-9	Benzo[k]fluoranthene	430		41	19
218-01-9	Chrysene	910		47	23
53-70-3	Dibenz(a,h)anthracene	280		100	21
206-44-0	Fluoranthene	1100		100	21
86-73-7	Fluorene	51	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	550		100	37
90-12-0	1-Methylnaphthalene	380		210	23
91-57-6	2-Methylnaphthalene	500		210	37
91-20-3	Naphthalene	370		210	23
85-01-8	Phenanthrene	710		41	20
129-00-0	Pyrene	1200		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		30-130

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09023.D
Lab Smp Id: 680-88811-A-47-A Client Smp ID: CV1119C-GSD
Inj Date : 09-APR-2013 17:58
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-47-a
Misc Info : 680-88811-A-47-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 23
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.900	Weight Extracted
M	22.273	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.686	3.686	(1.000)	399221	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	289210	40.0000	
*	10 Phenanthrene-d10	188	5.715	5.716	(1.000)	534166	40.0000	
$	14 o-Terphenyl	230	5.968	5.968	(1.044)	14861	2.42984	839.2253
*	18 Chrysene-d12	240	7.656	7.657	(1.000)	548119	40.0000	
*	23 Perylene-d12	264	8.821	8.827	(1.000)	530574	40.0000	
	2 Naphthalene	128	3.698	3.698	(1.003)	11118	1.08427	374.4877
	3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	10158	1.45530	502.6355
	4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	6876	1.09479	378.1224
	5 Acenaphthylene	152	4.686	4.686	(0.982)	6852	0.57245	197.7127
	7 Acenaphthene	154	4.792	4.792	(1.004)	1090	0.14703	50.7802(a)
	9 Fluorene	166	5.110	5.110	(1.070)	1473	0.14904	51.4764
	11 Phenanthrene	178	5.733	5.733	(1.003)	32025	2.05851	710.9720
	12 Anthracene	178	5.768	5.768	(1.009)	6157	0.39041	134.8404(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.874	5.874	(1.028)	7786	0.57625	199.0278
15 Fluoranthene	202	6.568	6.568	(1.149)	55703	3.24209	1119.7619
16 Pyrene	202	6.733	6.733	(0.879)	52606	3.46472	1196.6548
17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	38266	2.54507	879.0216
19 Chrysene	228	7.674	7.674	(1.002)	41290	2.64358	913.0447
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	68821	4.58814	1584.6615(M)
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.963)	18046	1.24391	429.6245(QM)
22 Benzo(a)pyrene	252	8.762	8.768	(0.993)	33420	2.36653	817.3580
24 Indeno(1,2,3-cd)pyrene	276	9.950	9.956	(1.128)	21381	1.59403	550.5503(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.974	(1.129)	10051	0.81118	280.1671
26 Benzo(g,h,i)perylene	276	10.286	10.298	(1.166)	23578	1.72231	594.8564

QC Flag Legend

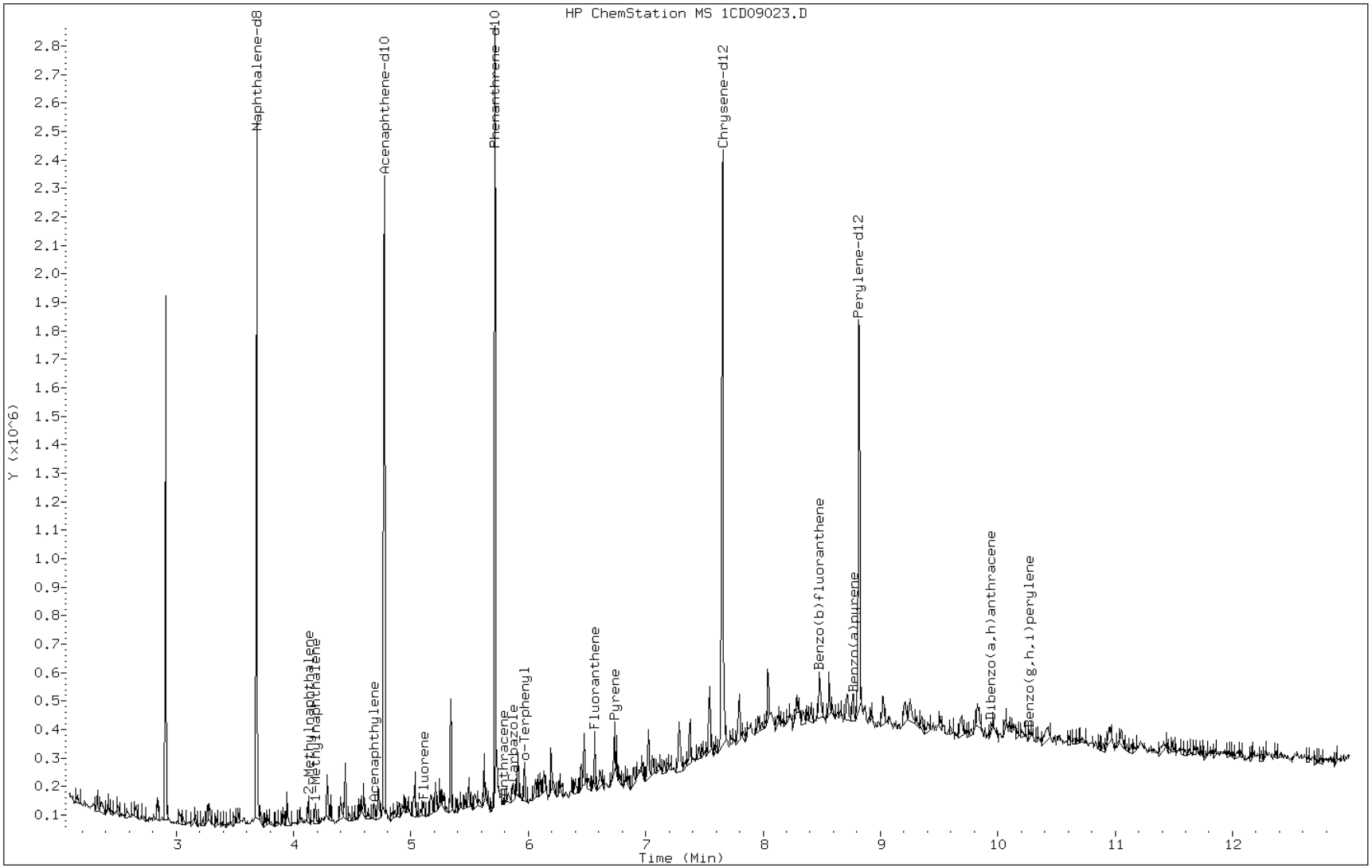
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC



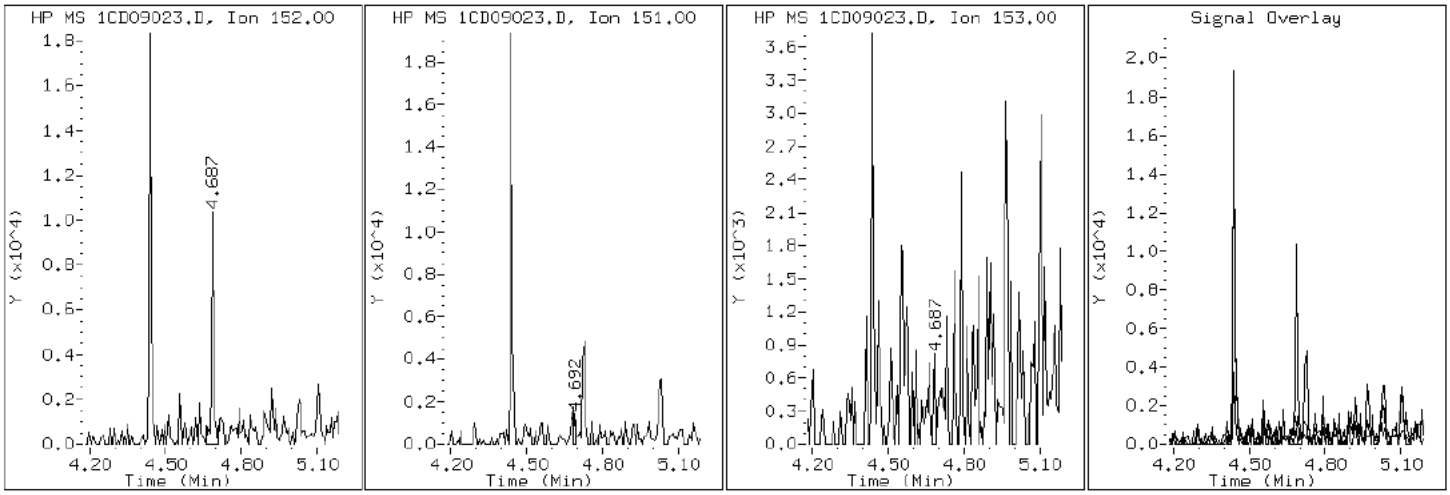
Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC

5 Acenaphthylene



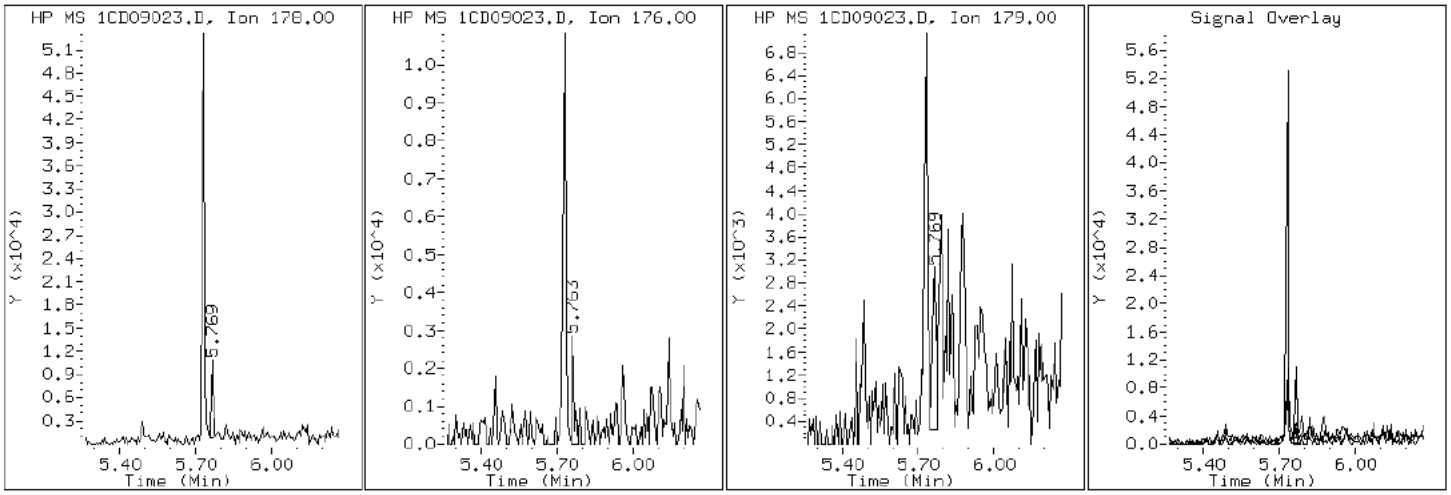
Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC

12 Anthracene



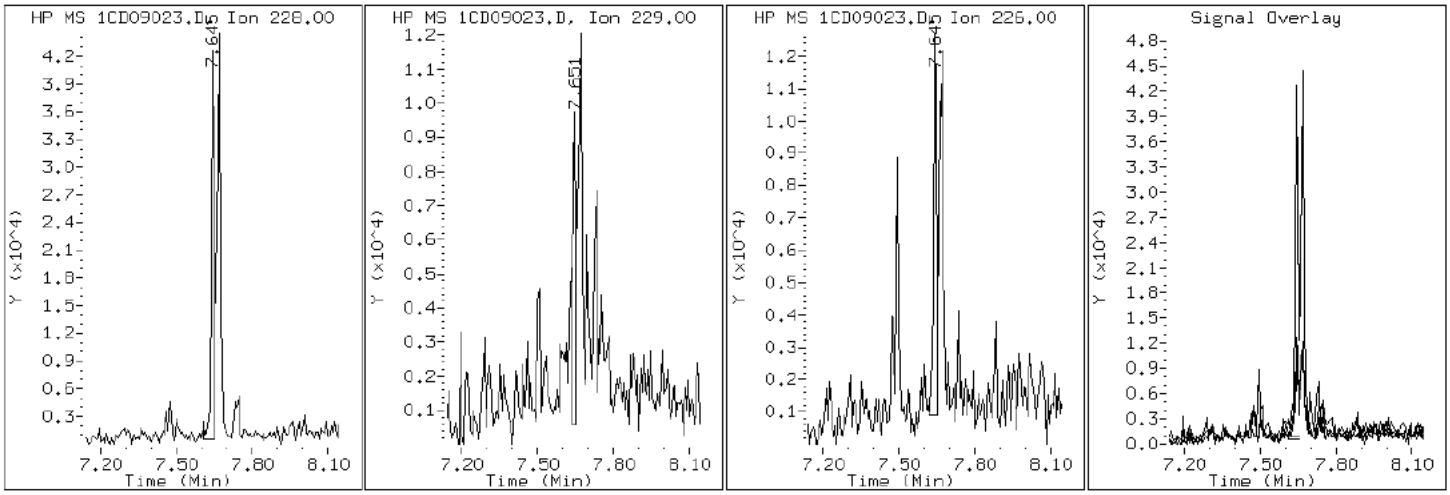
Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC

17 Benzo(a)anthracene



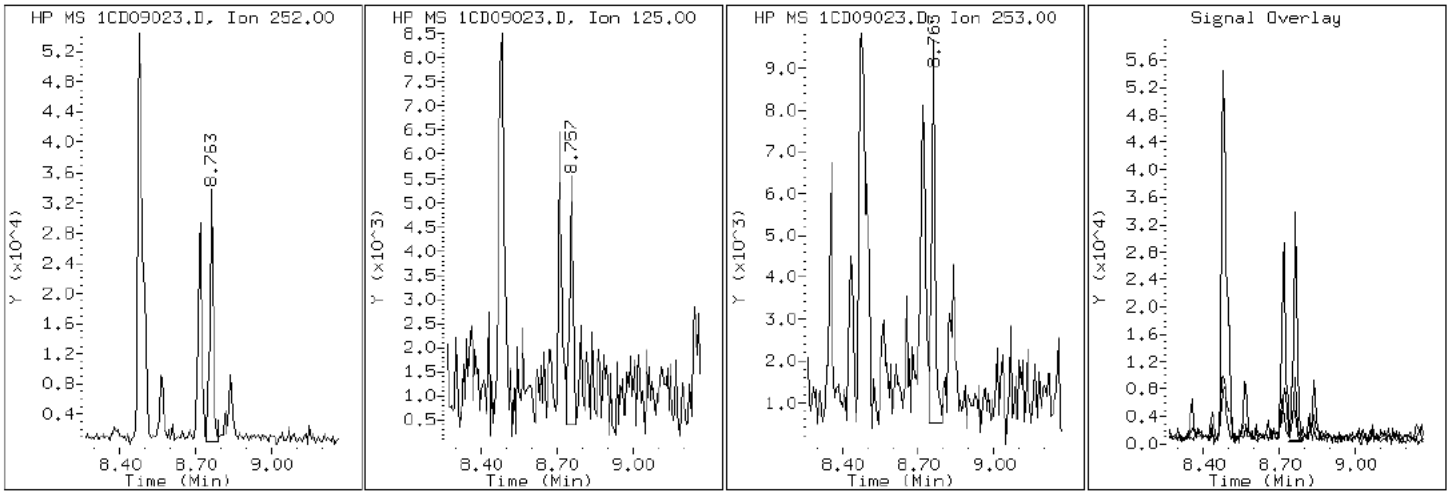
Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC

22 Benzo(a)pyrene



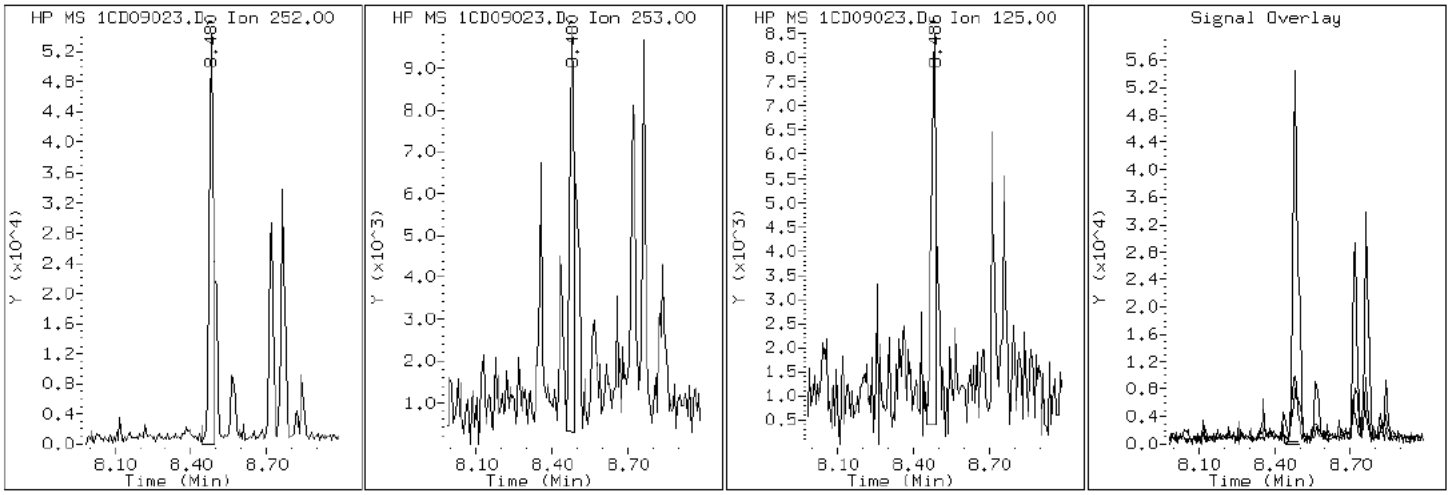
Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC

20 Benzo(b)fluoranthene



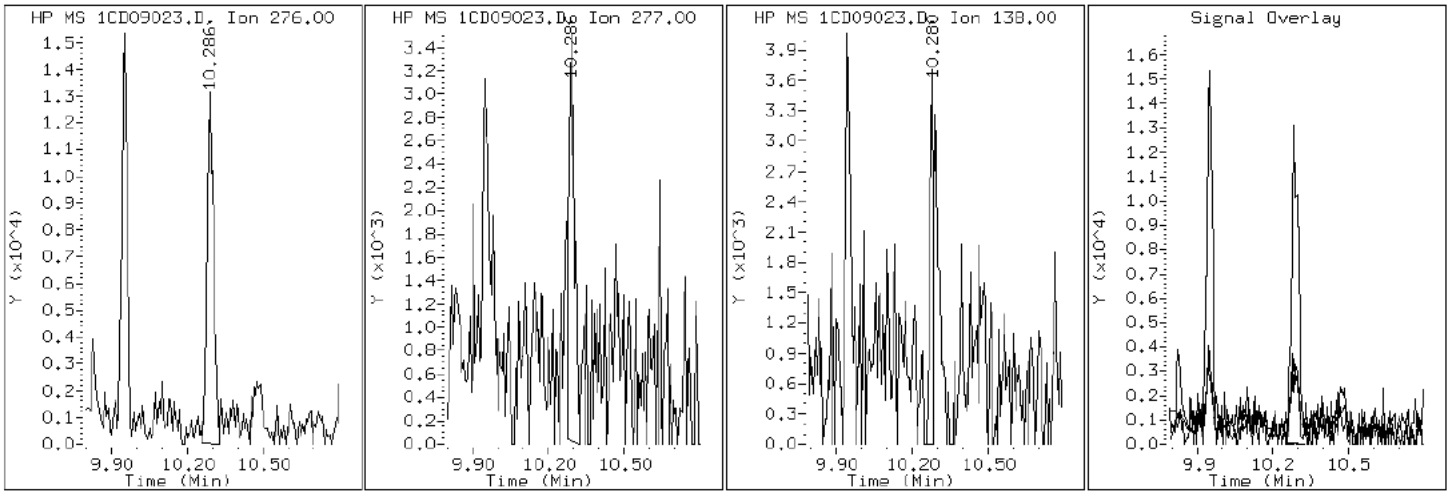
Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC

26 Benzo(g,h,i)perylene



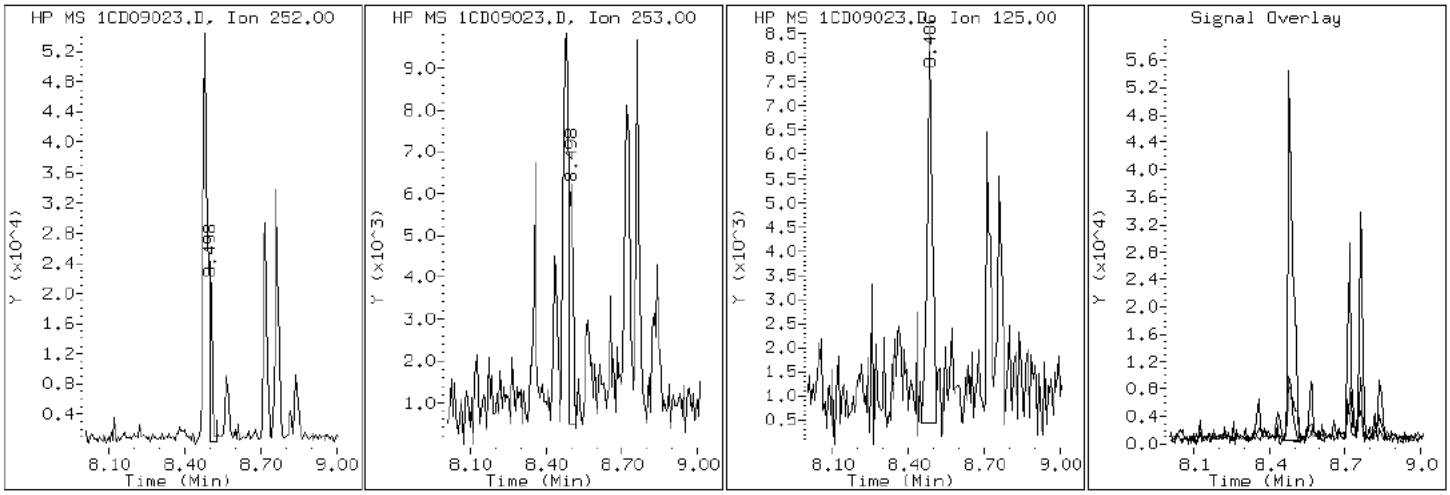
Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC

21 Benzo(k)fluoranthene



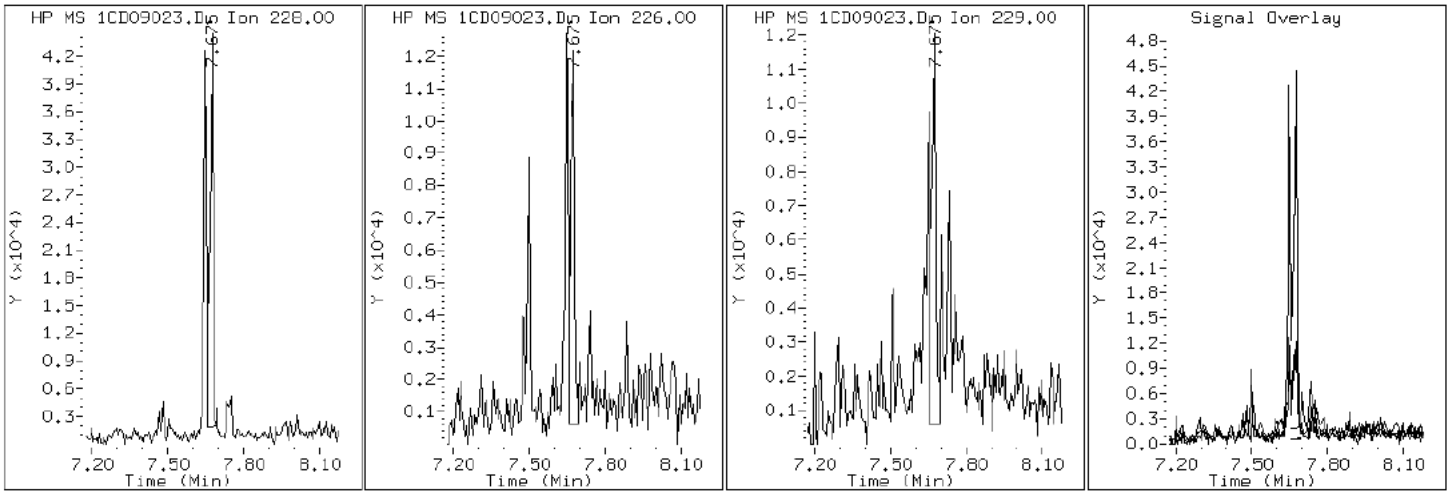
Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC

19 Chrysene



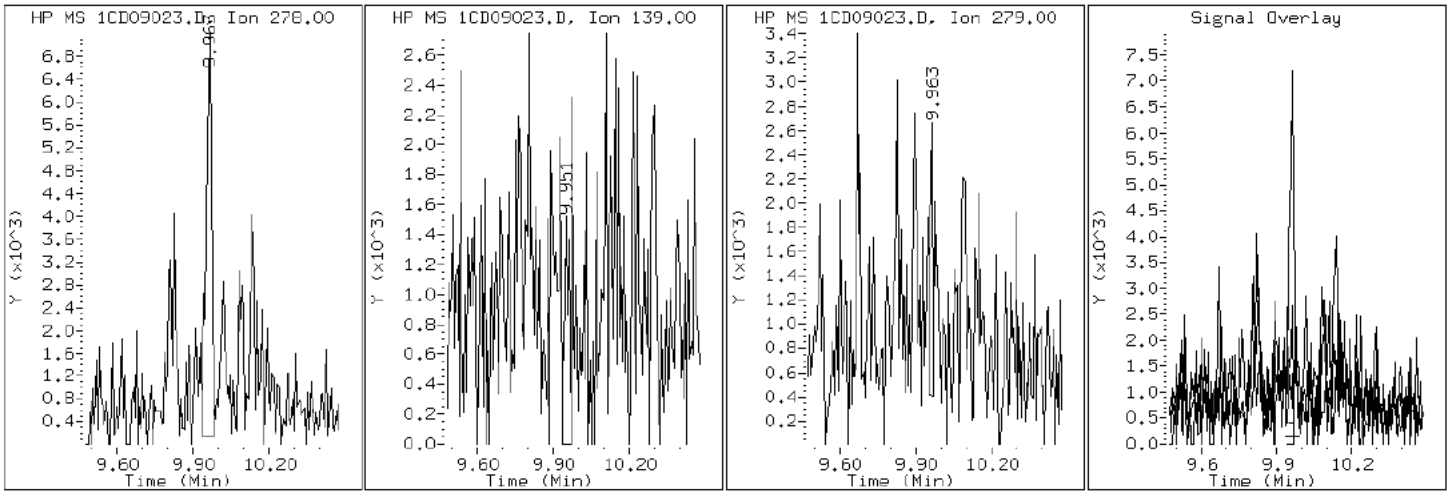
Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC

25 Dibenzo(a,h)anthracene



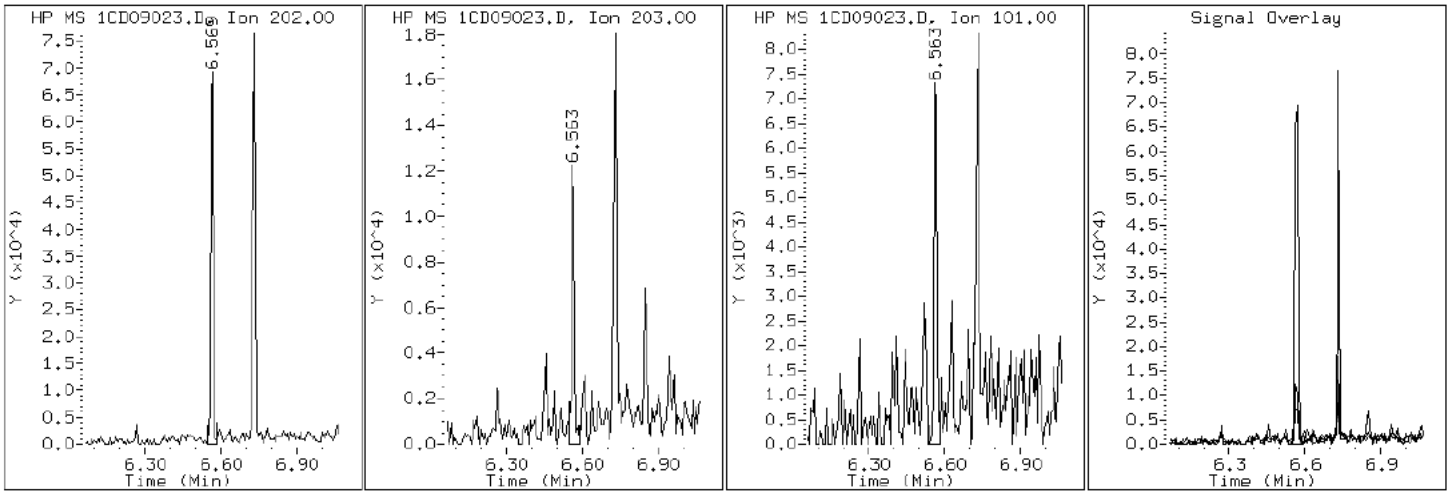
Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC

15 Fluoranthene



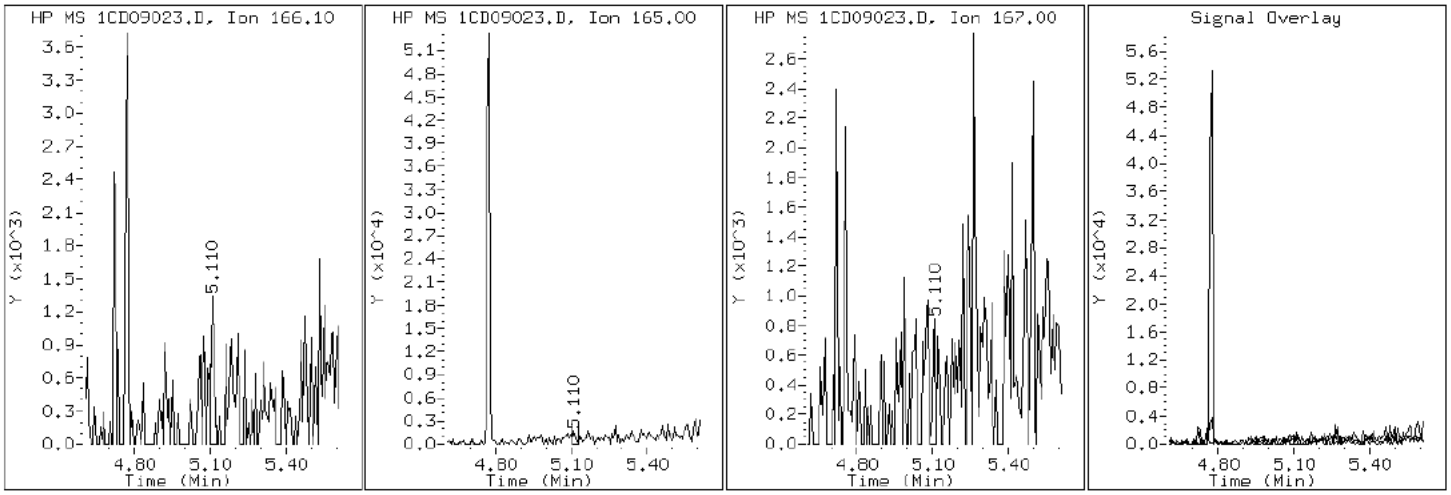
Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC

9 Fluorene



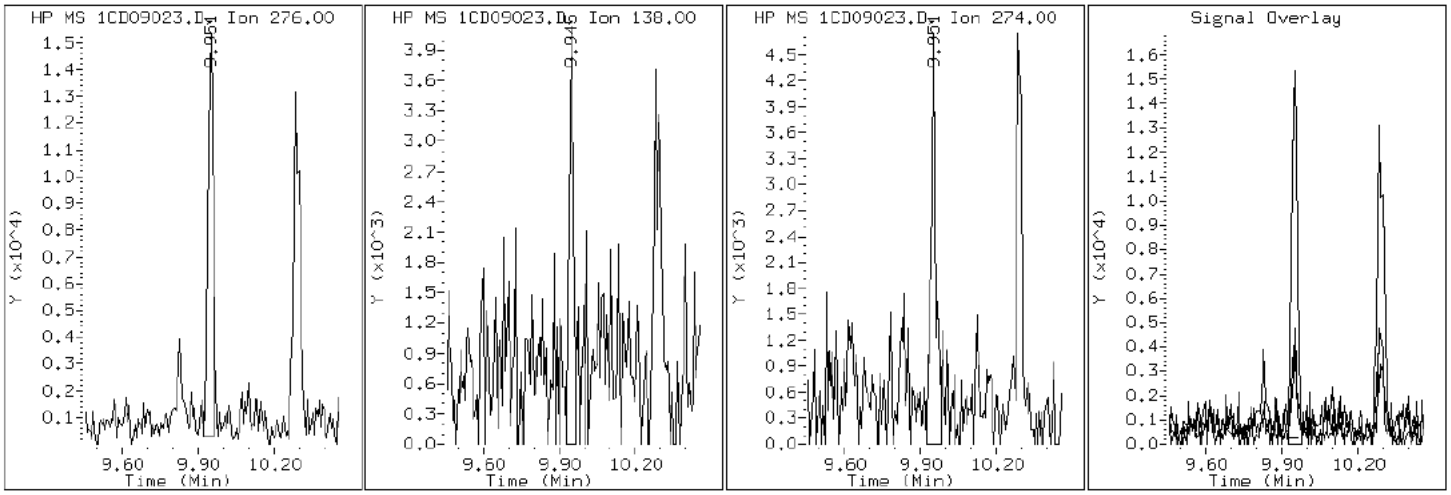
Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC

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



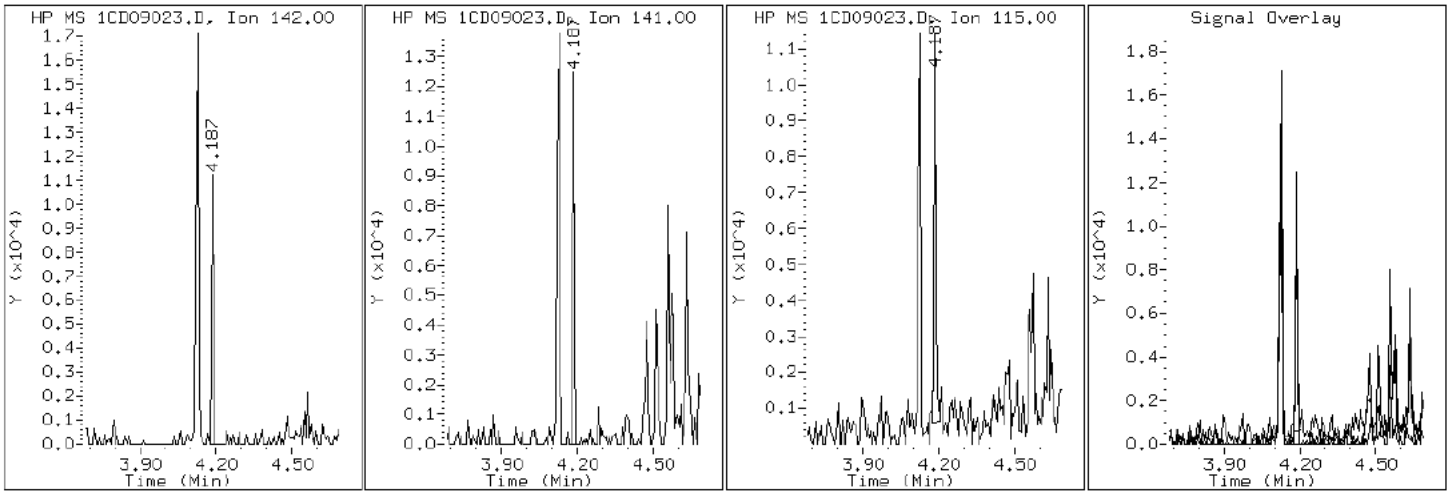
Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC

4 1-Methylnaphthalene



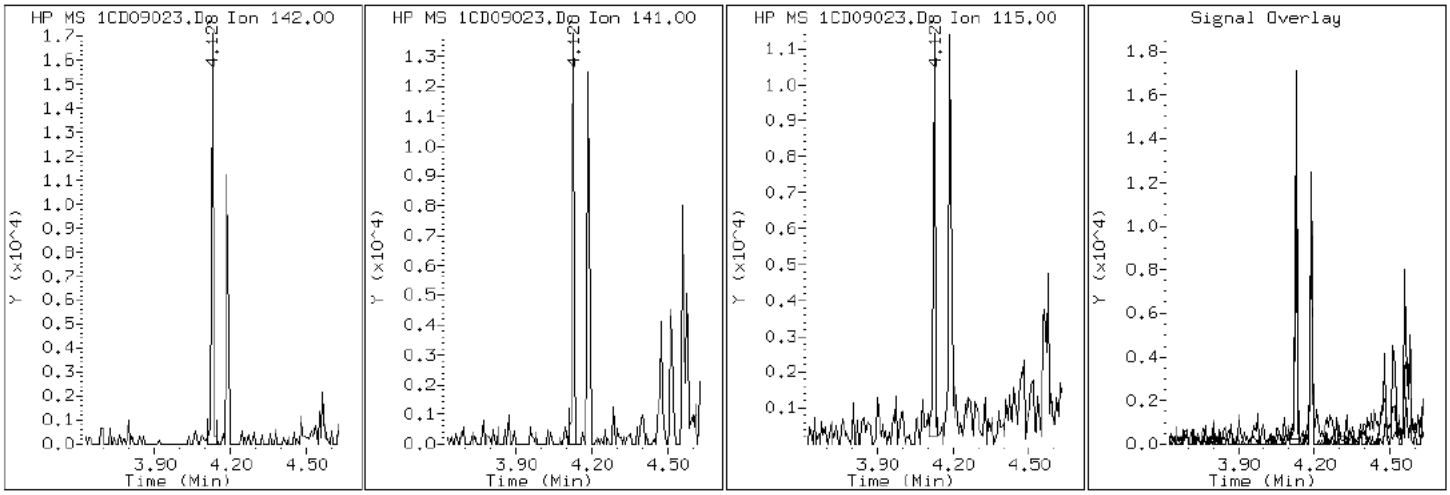
Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC

3 2-Methylnaphthalene



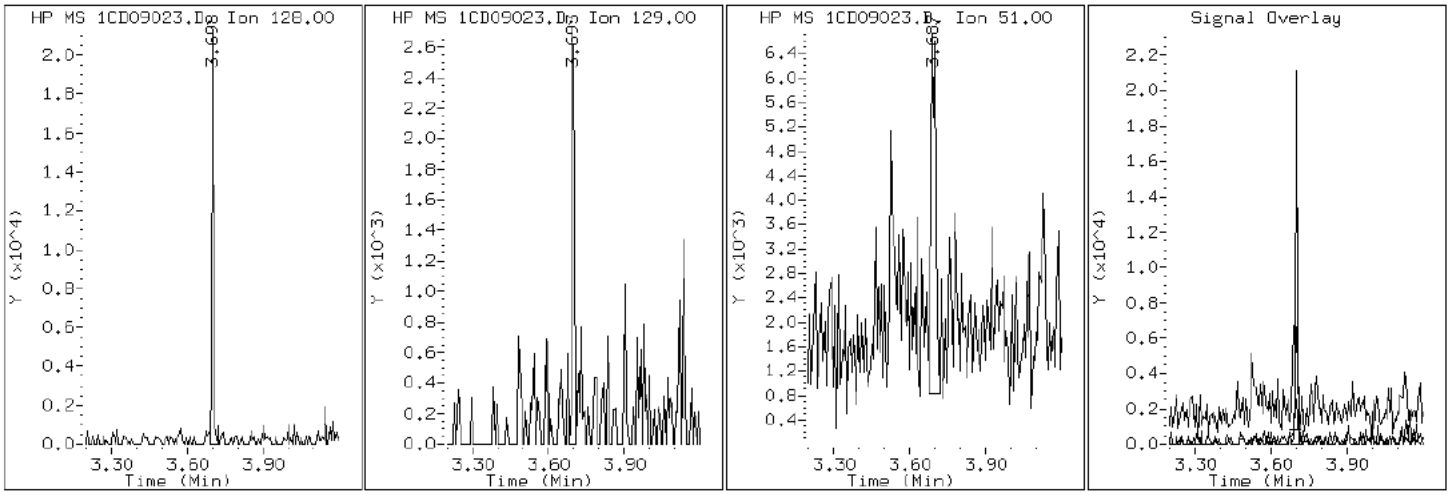
Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC

2 Naphthalene



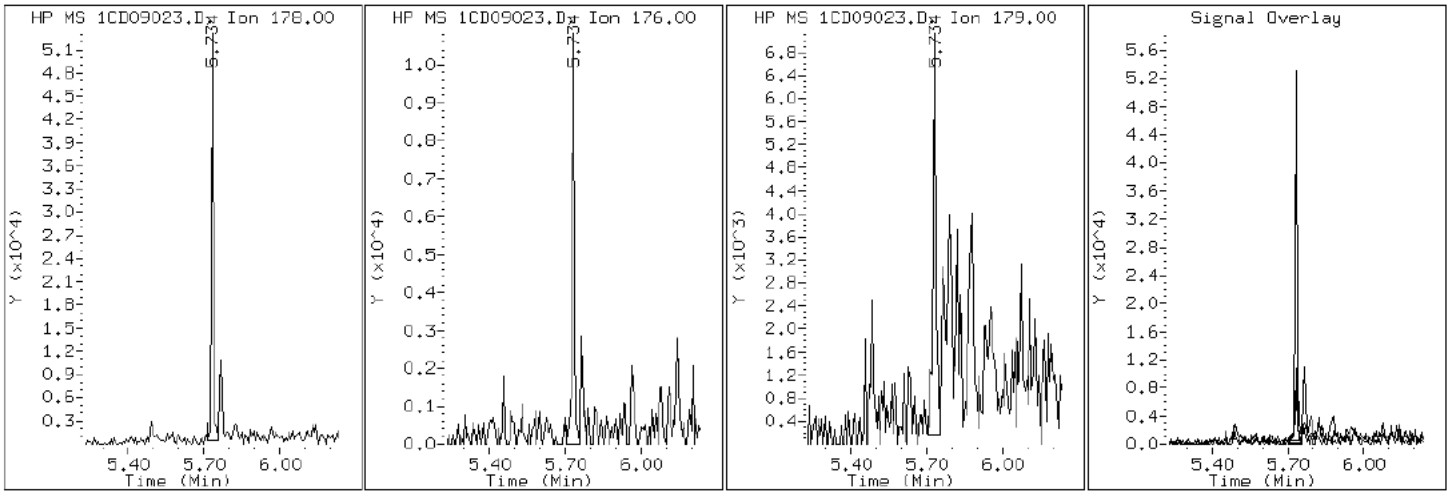
Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC

11 Phenanthrene



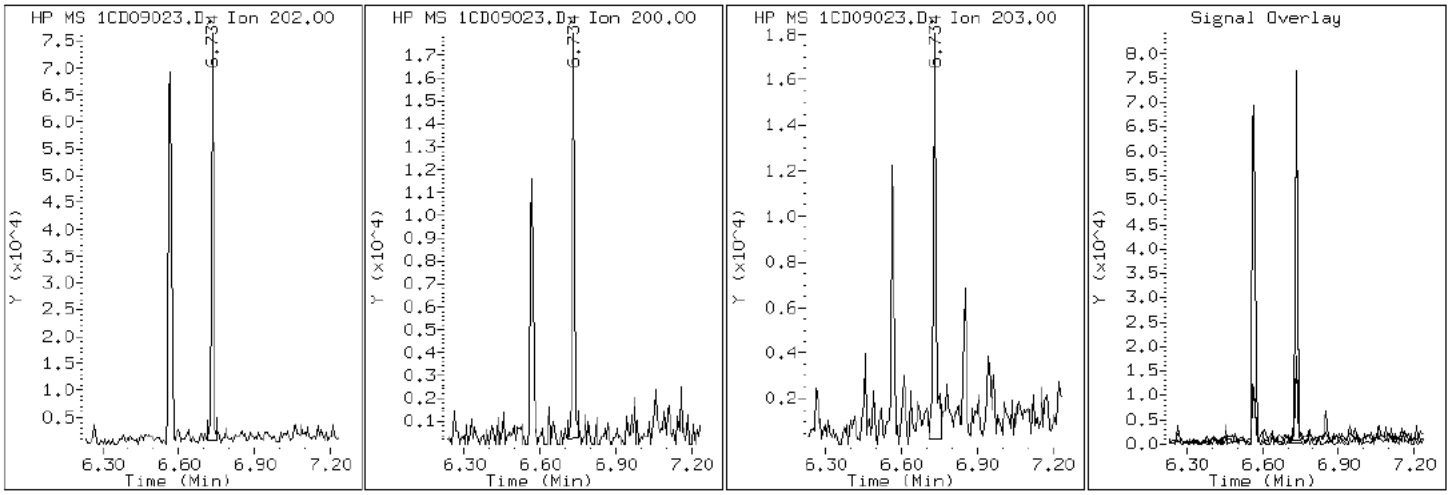
Data File: 1CD09023.D

Date: 09-APR-2013 17:58

Client ID: CV1119C-GSD Instrument: BSMC5973.i

Sample Info: 680-88811-a-47-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD09023.D
Inj. Date and Time: 09-APR-2013 17:58
Instrument ID: BSMC5973.i
Client ID: CV1119C-GSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

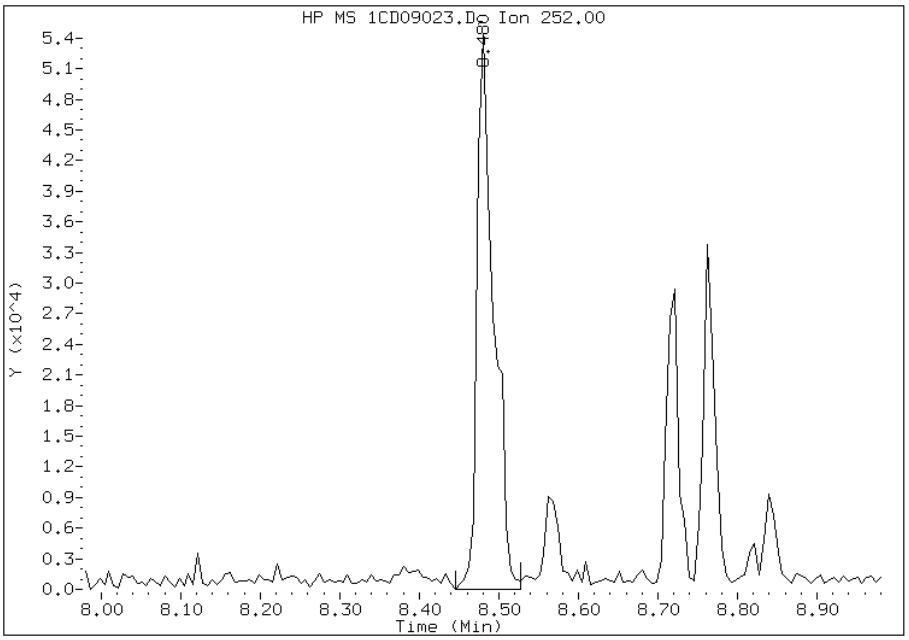
Processing Integration Results

RT: 8.48

Response: 79754

Amount: 5

Conc: 1836



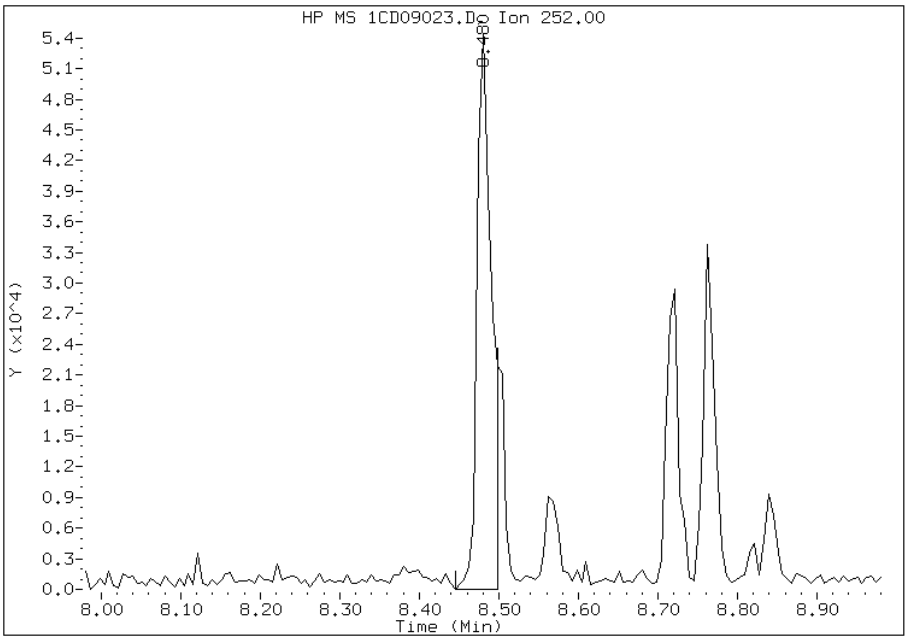
Manual Integration Results

RT: 8.48

Response: 68821

Amount: 5

Conc: 1585



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:58
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09023.D
Inj. Date and Time: 09-APR-2013 17:58
Instrument ID: BSMC5973.i
Client ID: CV1119C-GSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

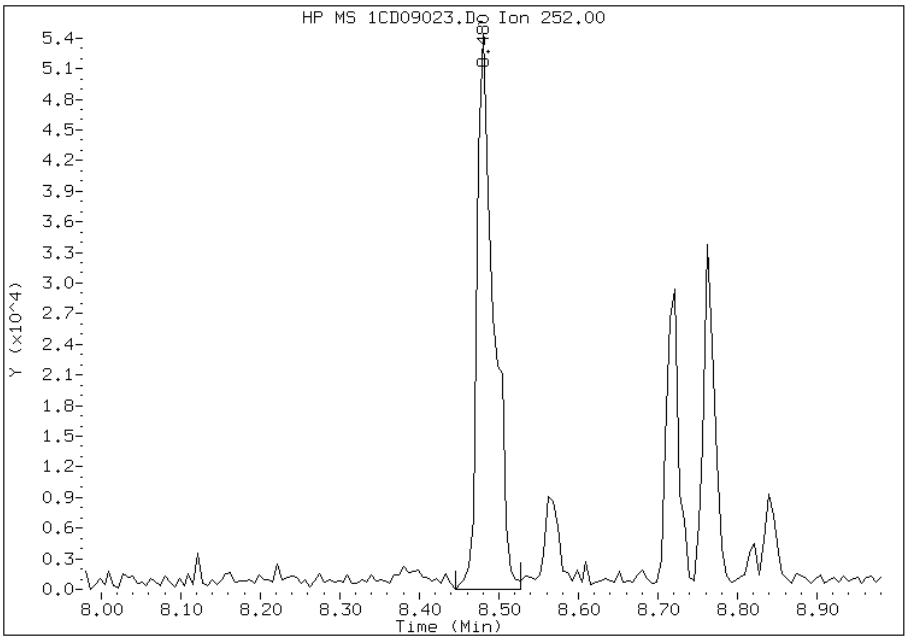
Processing Integration Results

RT: 8.48

Response: 79754

Amount: 5

Conc: 1899



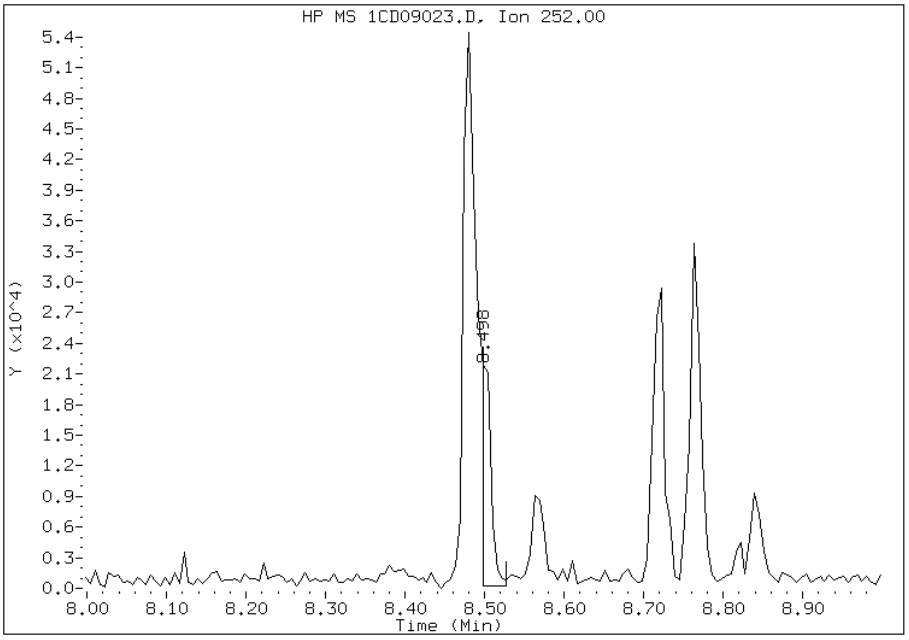
Manual Integration Results

RT: 8.50

Response: 18046

Amount: 1

Conc: 430



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:58
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09023.D
Inj. Date and Time: 09-APR-2013 17:58
Instrument ID: BSMC5973.i
Client ID: CV1119C-GSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

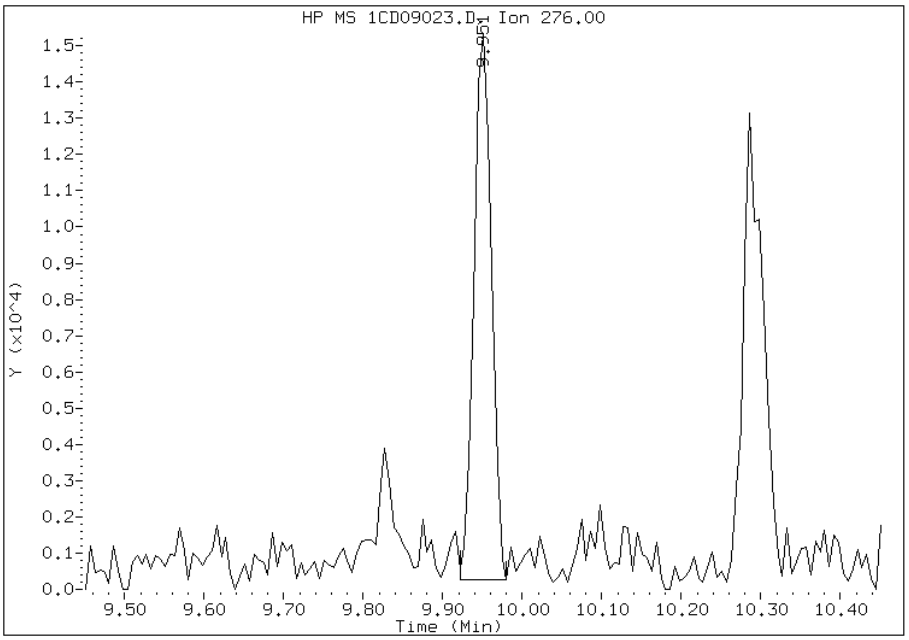
Processing Integration Results

RT: 9.95

Response: 22710

Amount: 2

Conc: 585



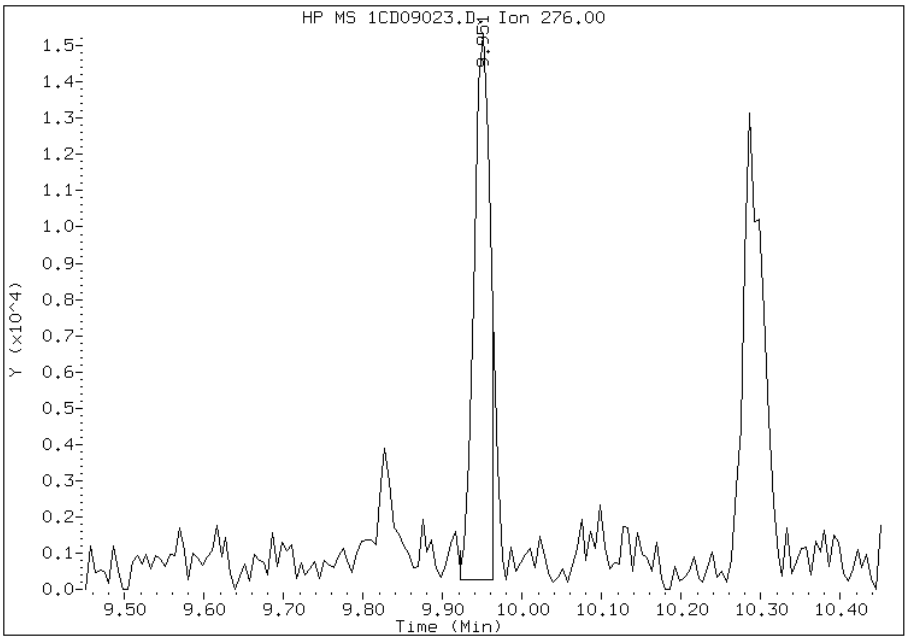
Manual Integration Results

RT: 9.95

Response: 21381

Amount: 2

Conc: 551



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1119D-GS | Lab Sample ID: 680-88811-48

Matrix: Solid | Lab File ID: 1CD09024.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 09:40

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.13(g) | Date Analyzed: 04/09/2013 18:16

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

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

% Moisture: 34.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	J	600	120
208-96-8	Acenaphthylene	220	J	240	30
120-12-7	Anthracene	270		50	25
56-55-3	Benzo[a]anthracene	790		48	23
50-32-8	Benzo[a]pyrene	560		62	31
205-99-2	Benzo[b]fluoranthene	1400		73	37
191-24-2	Benzo[g,h,i]perylene	570		120	26
207-08-9	Benzo[k]fluoranthene	480		48	22
218-01-9	Chrysene	1300		54	27
53-70-3	Dibenz(a,h)anthracene	200		120	25
206-44-0	Fluoranthene	1000		120	24
86-73-7	Fluorene	62	J	120	25
193-39-5	Indeno[1,2,3-cd]pyrene	510		120	43
90-12-0	1-Methylnaphthalene	320		240	26
91-57-6	2-Methylnaphthalene	270		240	43
91-20-3	Naphthalene	450		240	26
85-01-8	Phenanthrene	680		48	23
129-00-0	Pyrene	1100		120	22

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		30-130

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09024.D
Lab Smp Id: 680-88811-A-48-A Client Smp ID: CV1119D-GS
Inj Date : 09-APR-2013 18:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-48-a
Misc Info : 680-88811-A-48-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 24
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	15.130	Weight Extracted
M	33.992	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.686	3.686	(1.000)	405957	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	303678	40.0000	
*	10 Phenanthrene-d10	188	5.716	5.716	(1.000)	550100	40.0000	
$	14 o-Terphenyl	230	5.968	5.968	(1.044)	15161	2.41388	966.8052
*	18 Chrysene-d12	240	7.657	7.657	(1.000)	550917	40.0000	
*	23 Perylene-d12	264	8.821	8.827	(1.000)	529362	40.0000	
	2 Naphthalene	128	3.698	3.698	(1.003)	11845	1.13600	454.9897
	3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	4793	0.67528	270.4630(Q)
	4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	5094	0.79761	319.4560(Q)
	5 Acenaphthylene	152	4.686	4.686	(0.982)	6892	0.54836	219.6265
	7 Acenaphthene	154	4.792	4.792	(1.004)	2978	0.38255	153.2199(Q)
	9 Fluorene	166	5.116	5.110	(1.071)	1617	0.15582	62.4077(Q)
	11 Phenanthrene	178	5.733	5.733	(1.003)	27194	1.69735	679.8191
	12 Anthracene	178	5.768	5.768	(1.009)	11008	0.67779	271.4666

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13	Carbazole	167	5.874	5.874	(1.028)	6028	0.43322	173.5120(Q)
15	Fluoranthene	202	6.568	6.568	(1.149)	45002	2.54339	1018.6754
16	Pyrene	202	6.733	6.733	(0.879)	41891	2.74500	1099.4242
17	Benzo(a)anthracene	228	7.645	7.645	(0.998)	29478	1.98230	793.9475
19	Chrysene	228	7.674	7.674	(1.002)	52671	3.35511	1343.7847
20	Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	51194	3.42080	1370.0930(M)
21	Benzo(k)fluoranthene	252	8.504	8.509	(0.964)	17338	1.19784	479.7584(M)
22	Benzo(a)pyrene	252	8.768	8.768	(0.994)	19568	1.38882	556.2471
24	Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.129)	17139	1.28070	512.9440(M)
25	Dibenzo(a,h)anthracene	278	9.974	9.974	(1.131)	6054	0.48971	196.1398(Q)
26	Benzo(g,h,i)perylene	276	10.303	10.298	(1.168)	19399	1.42029	568.8529(MH)

QC Flag Legend

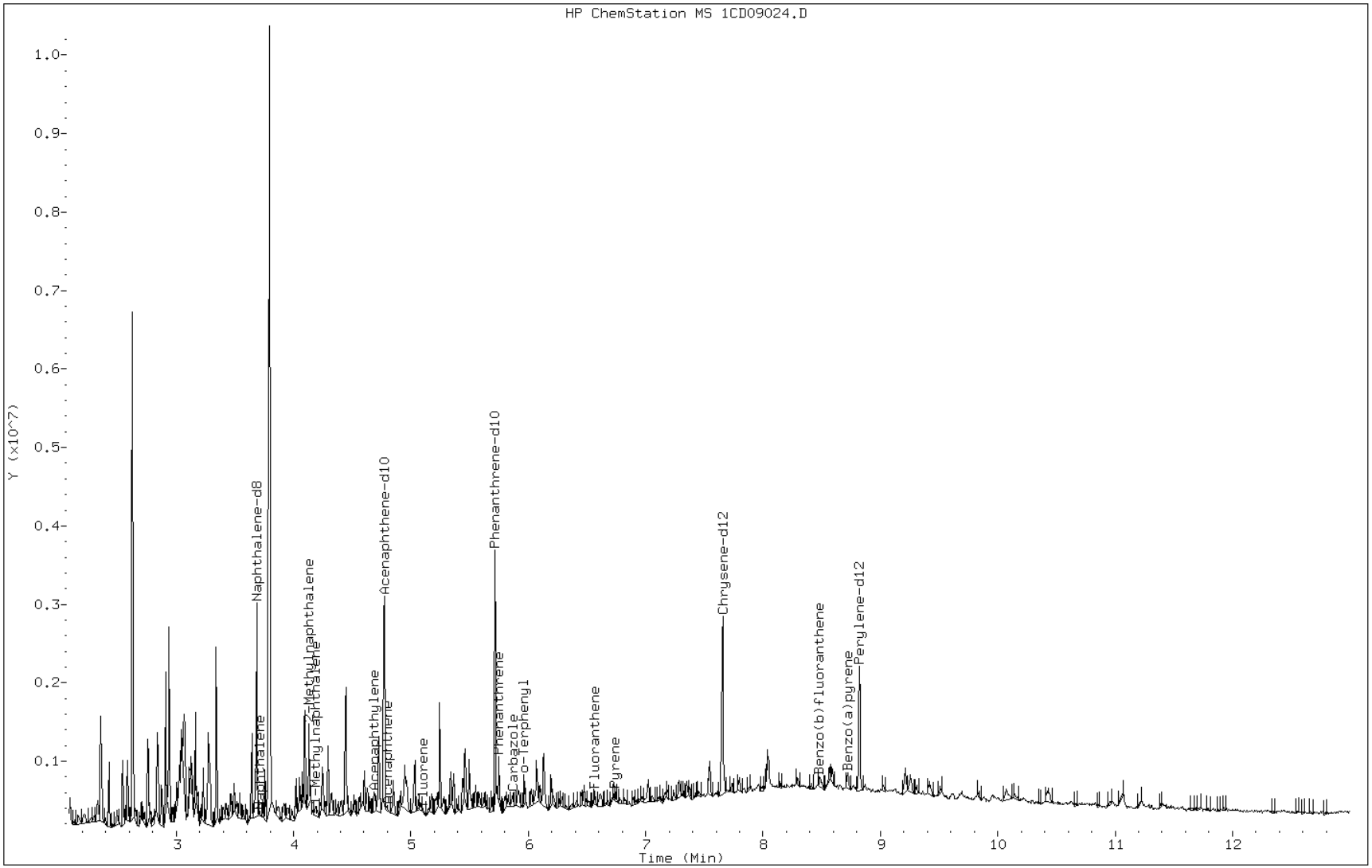
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC



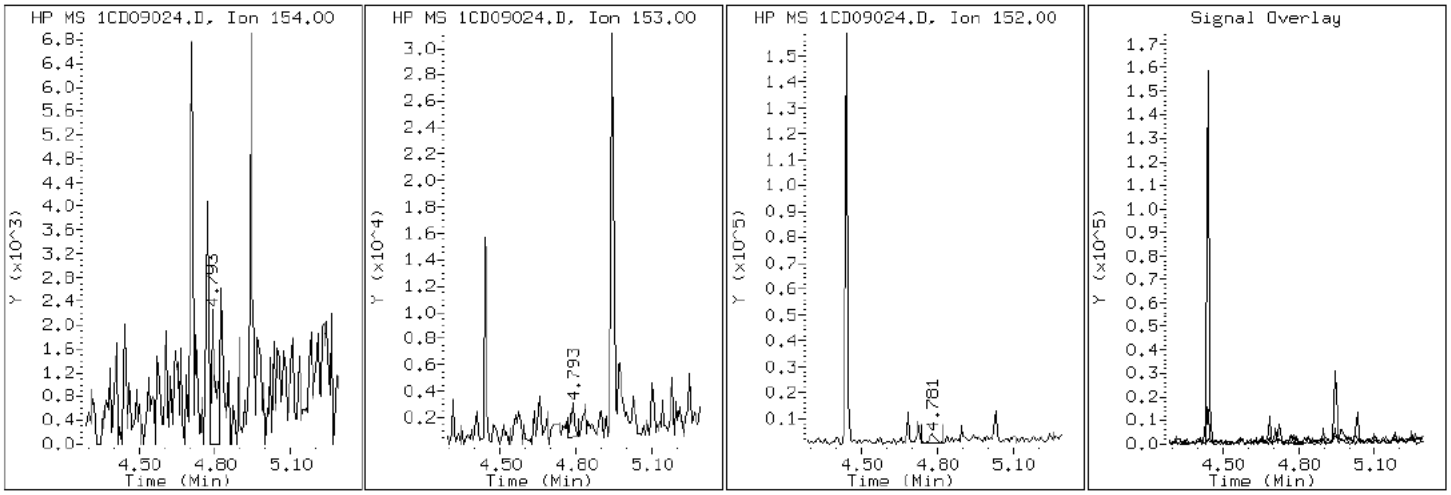
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

7 Acenaphthene



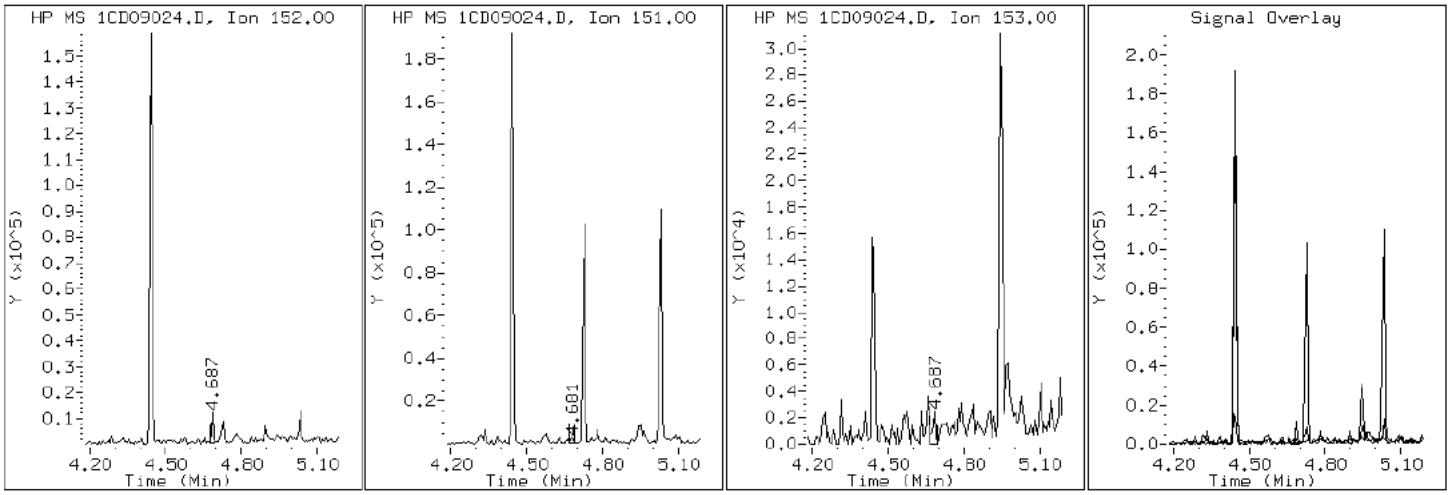
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

5 Acenaphthylene



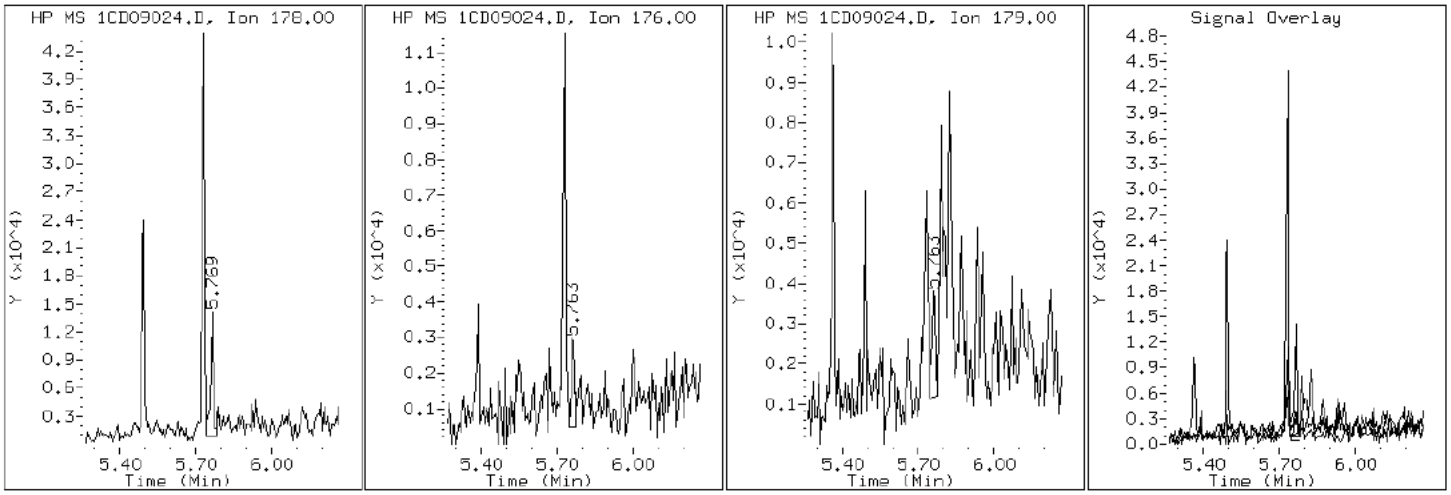
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

12 Anthracene



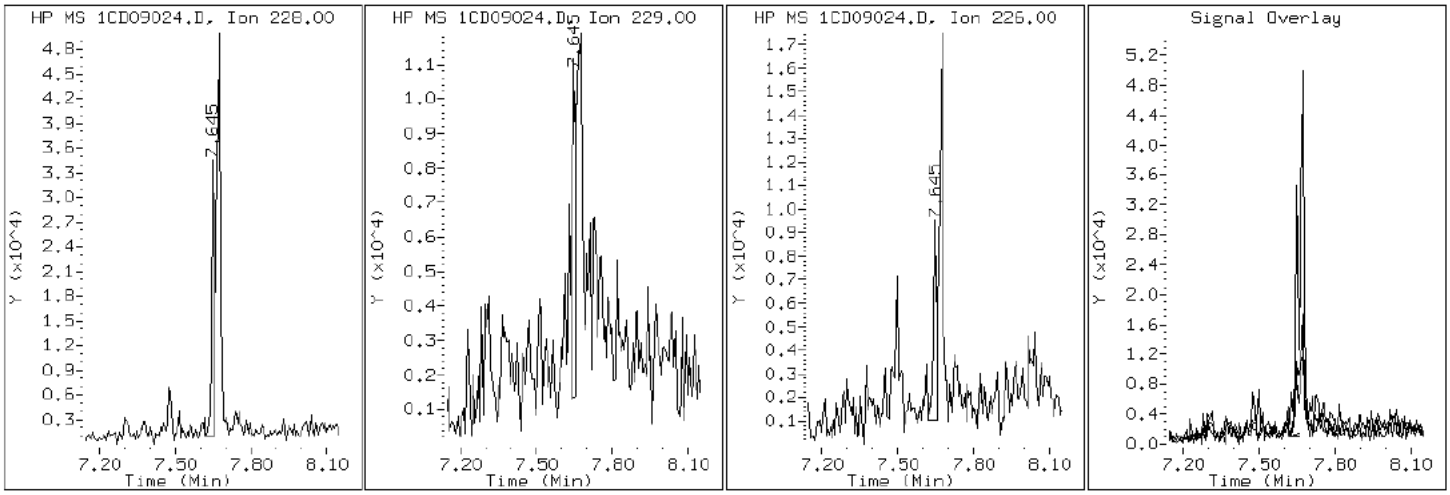
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

17 Benzo(a)anthracene



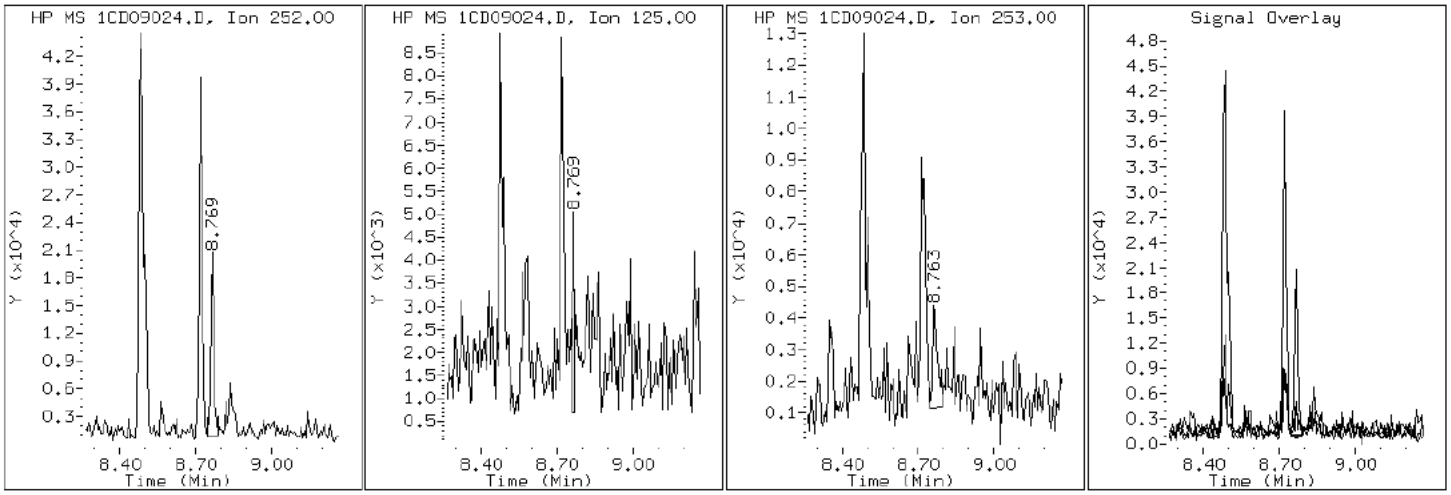
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

22 Benzo(a)pyrene



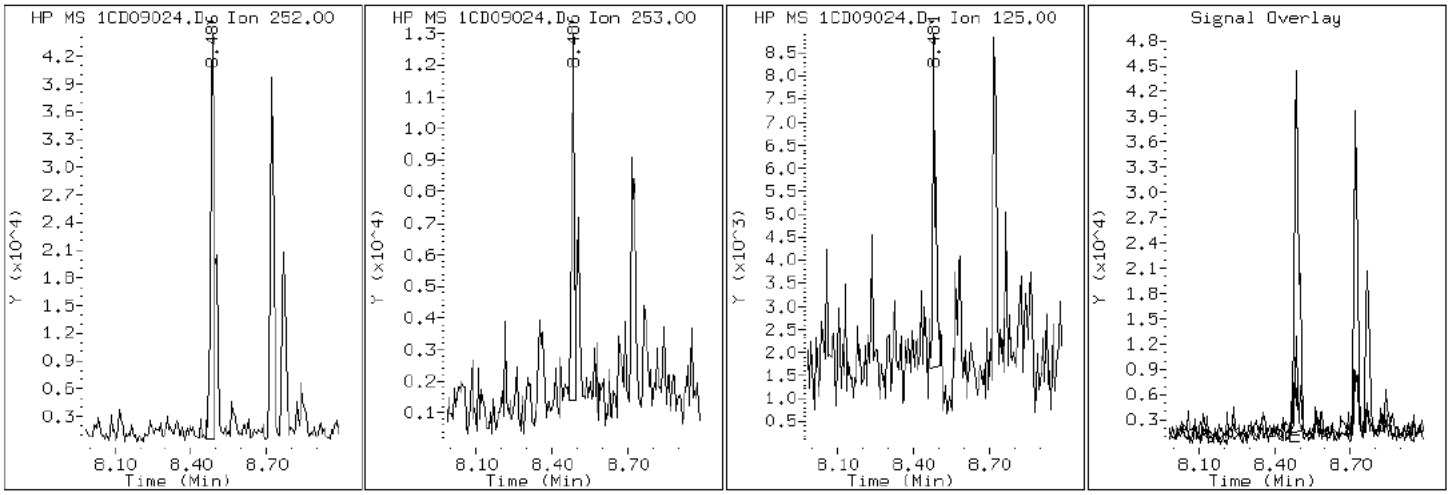
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

20 Benzo(b)fluoranthene



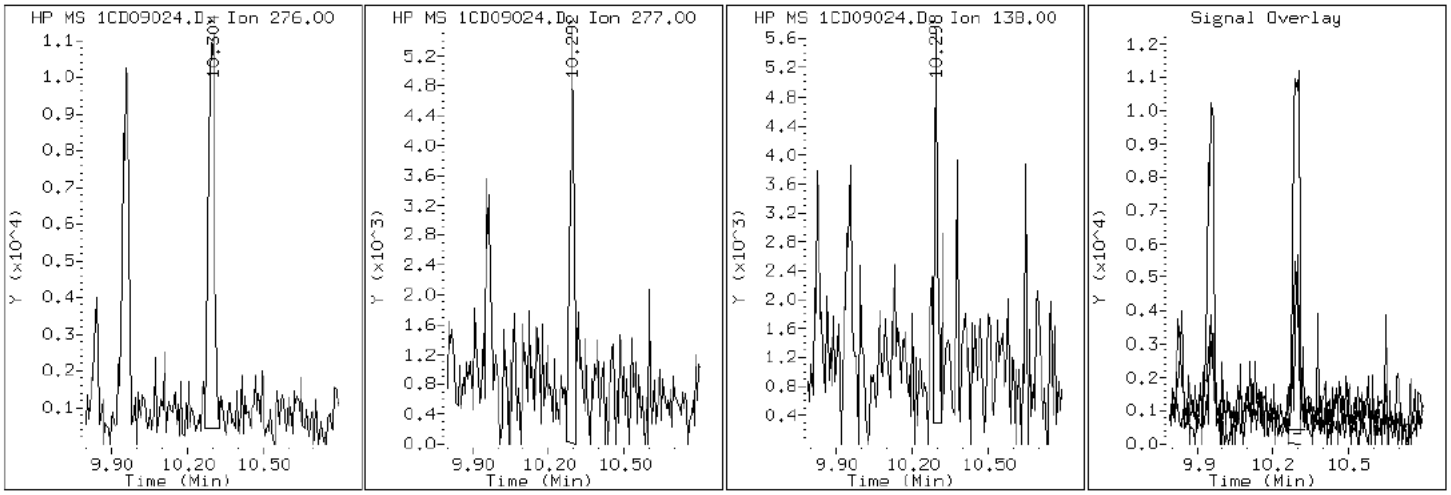
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

26 Benzo(g,h,i)perylene



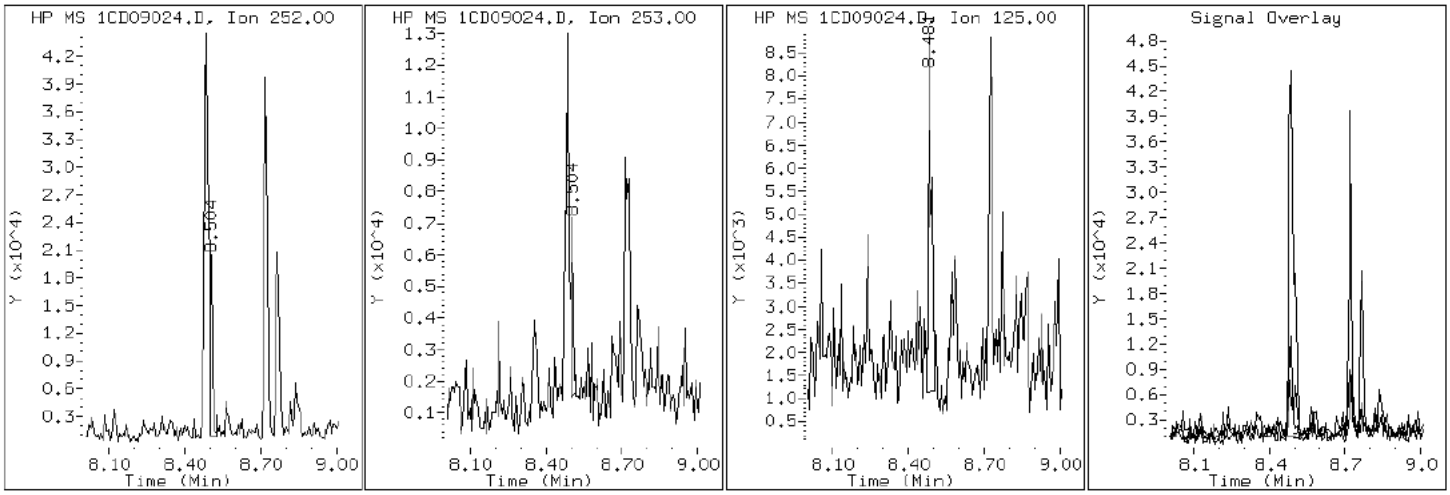
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

21 Benzo(k)fluoranthene



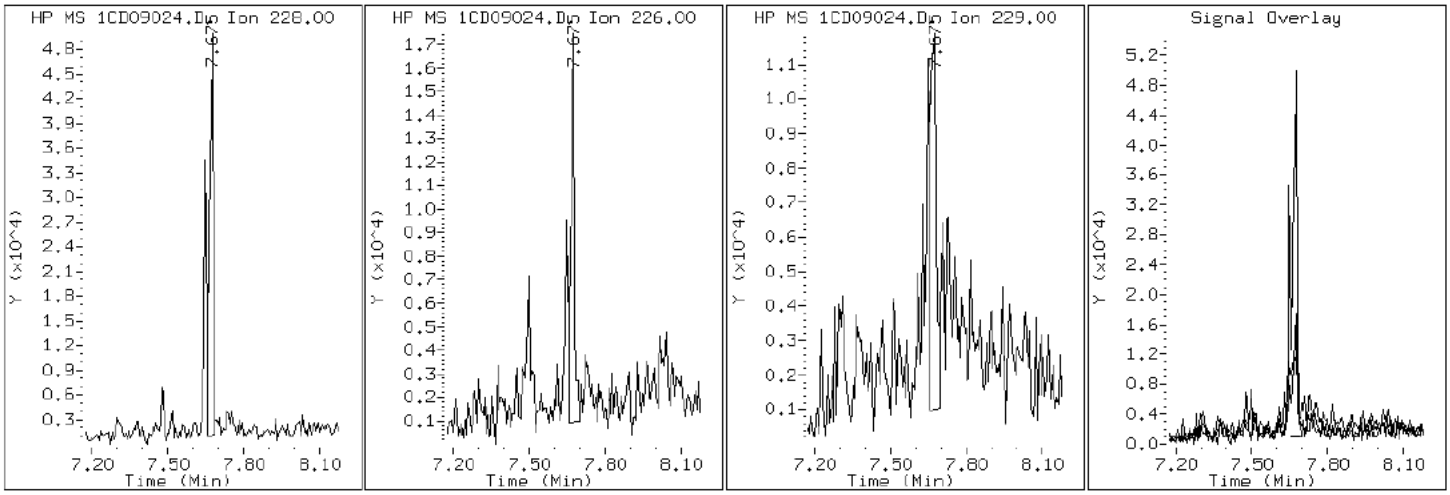
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

19 Chrysene



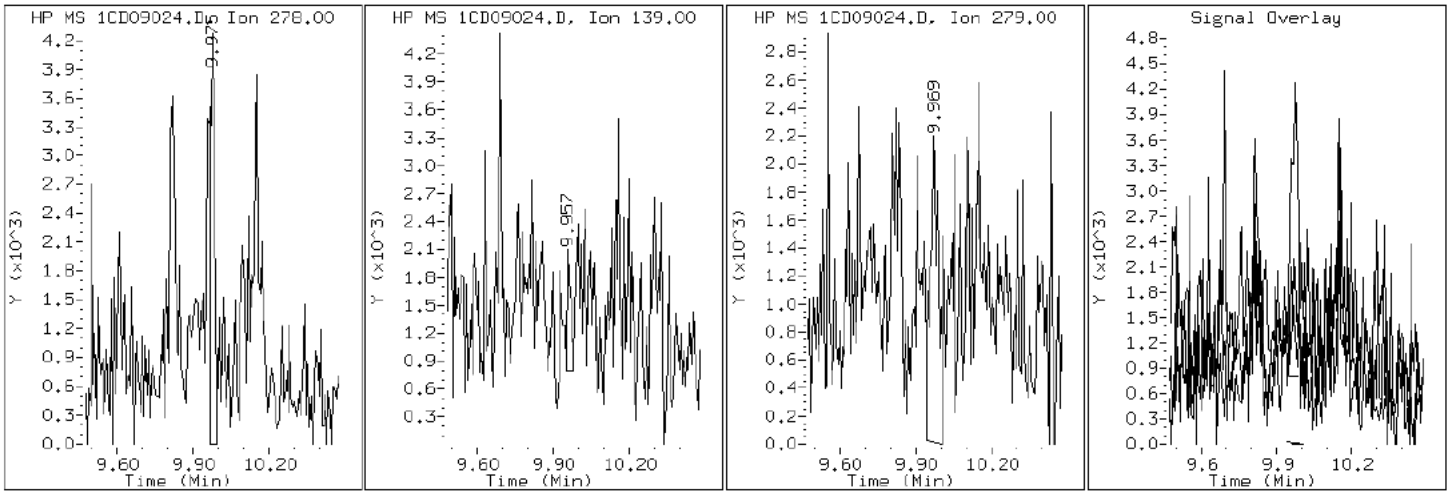
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

25 Dibenzo(a,h)anthracene



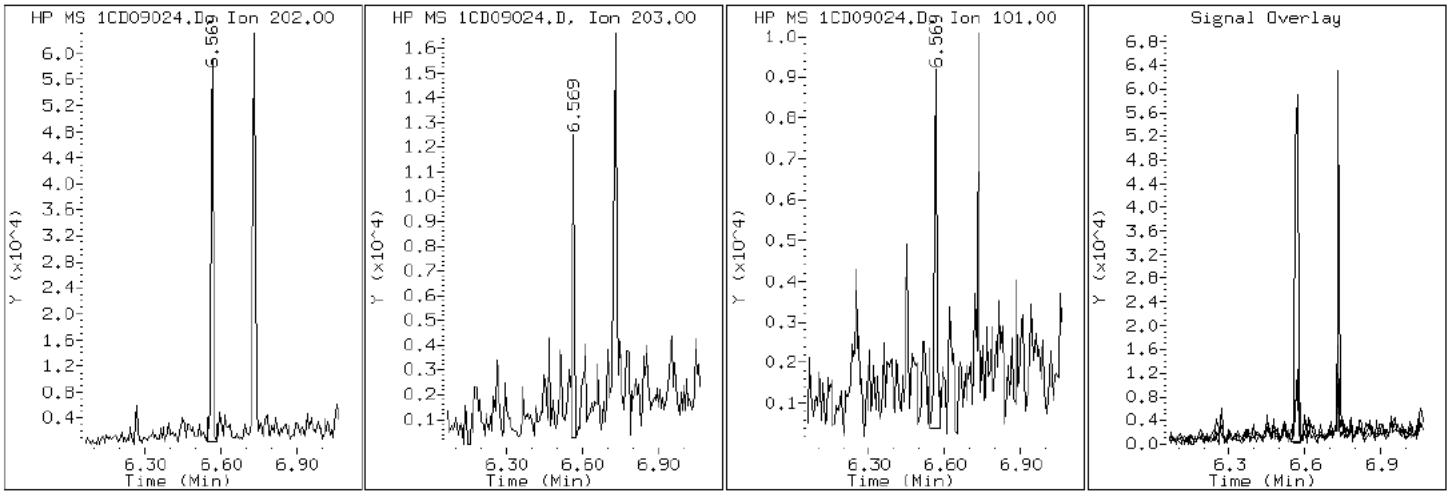
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

15 Fluoranthene



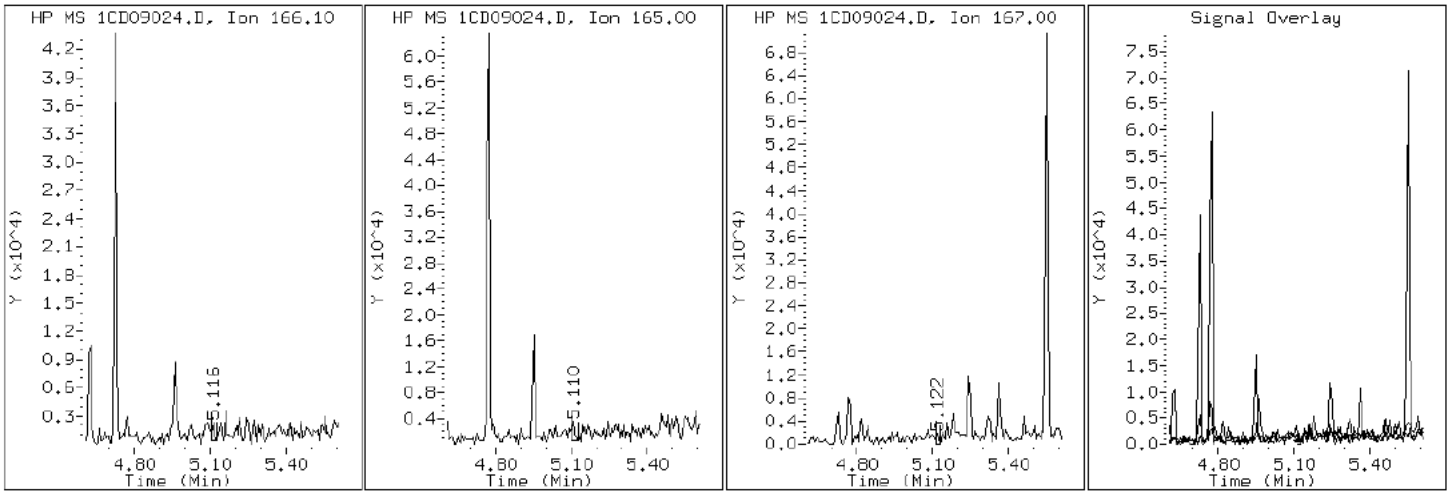
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

9 Fluorene



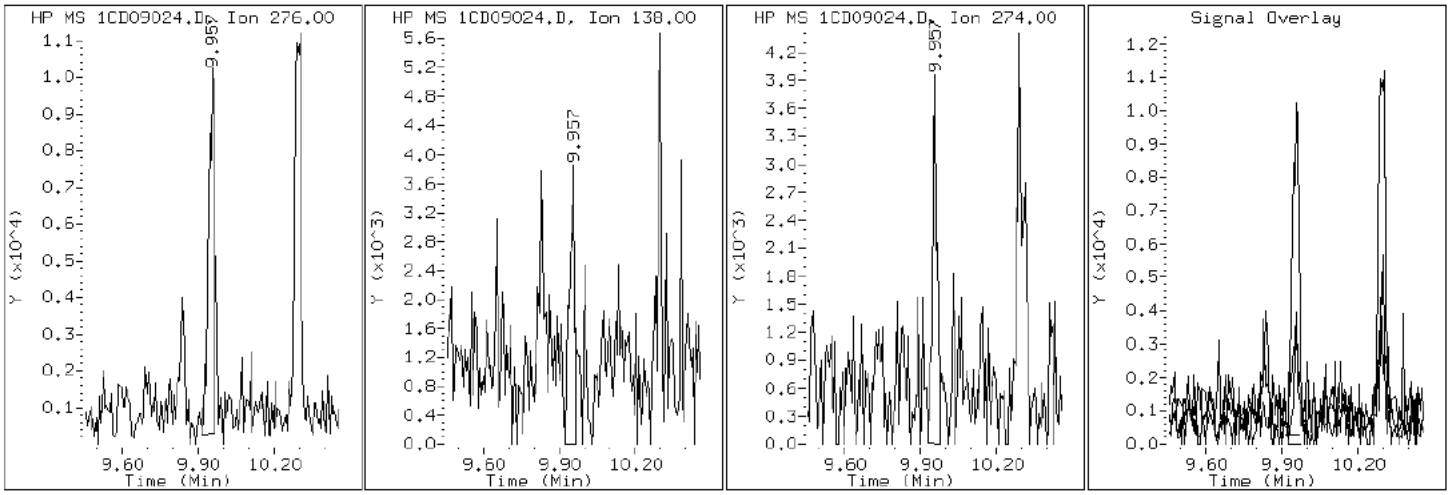
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

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



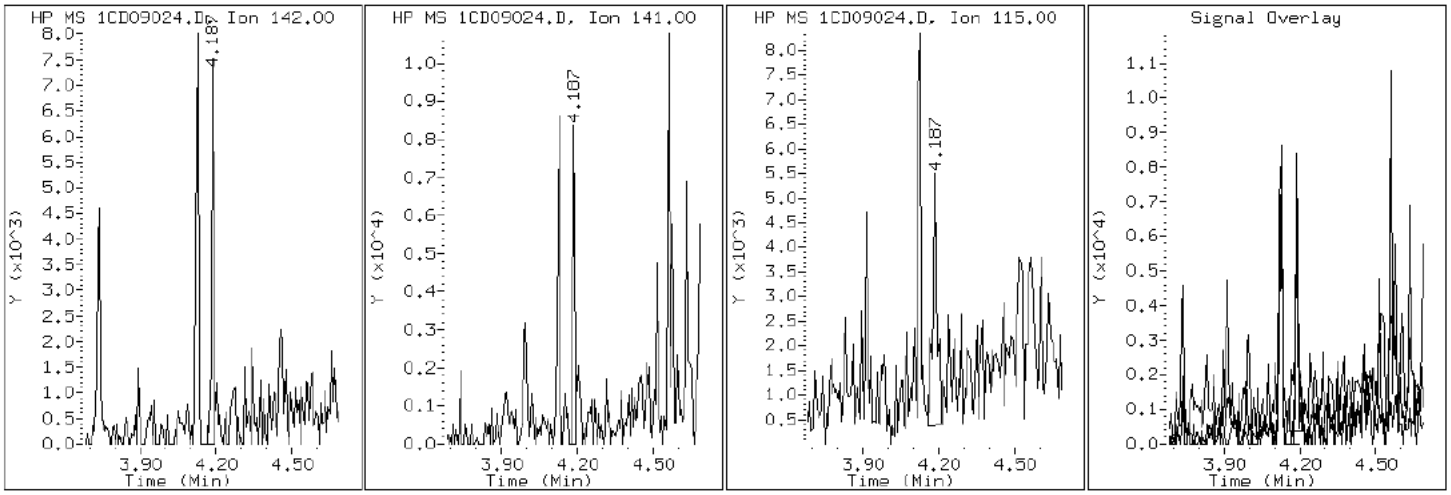
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

4 1-Methylnaphthalene



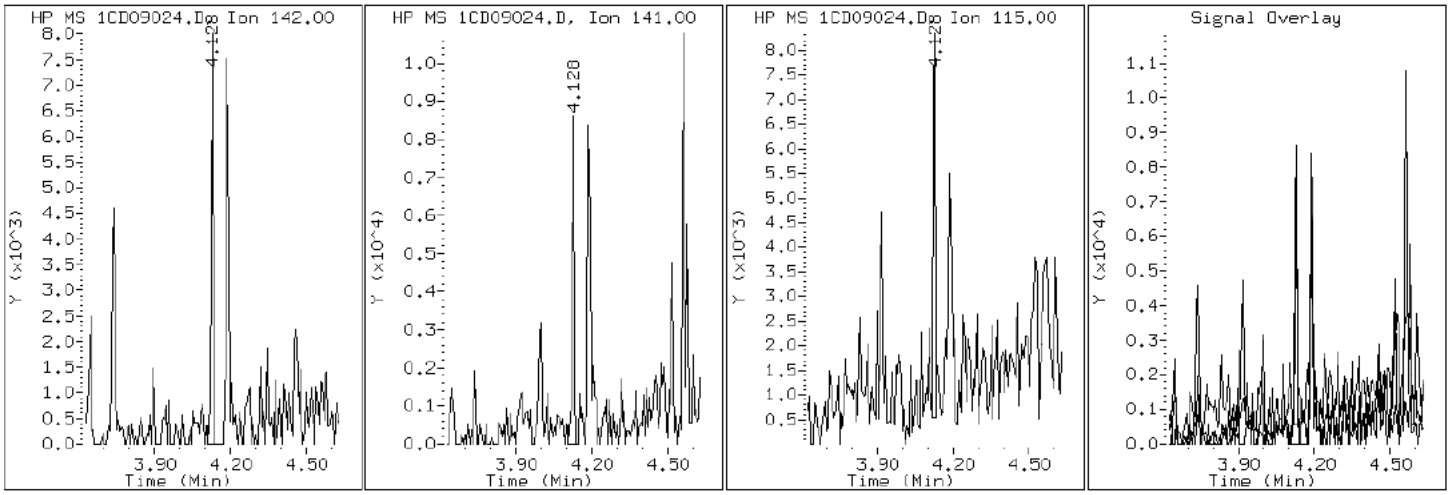
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

3 2-Methylnaphthalene



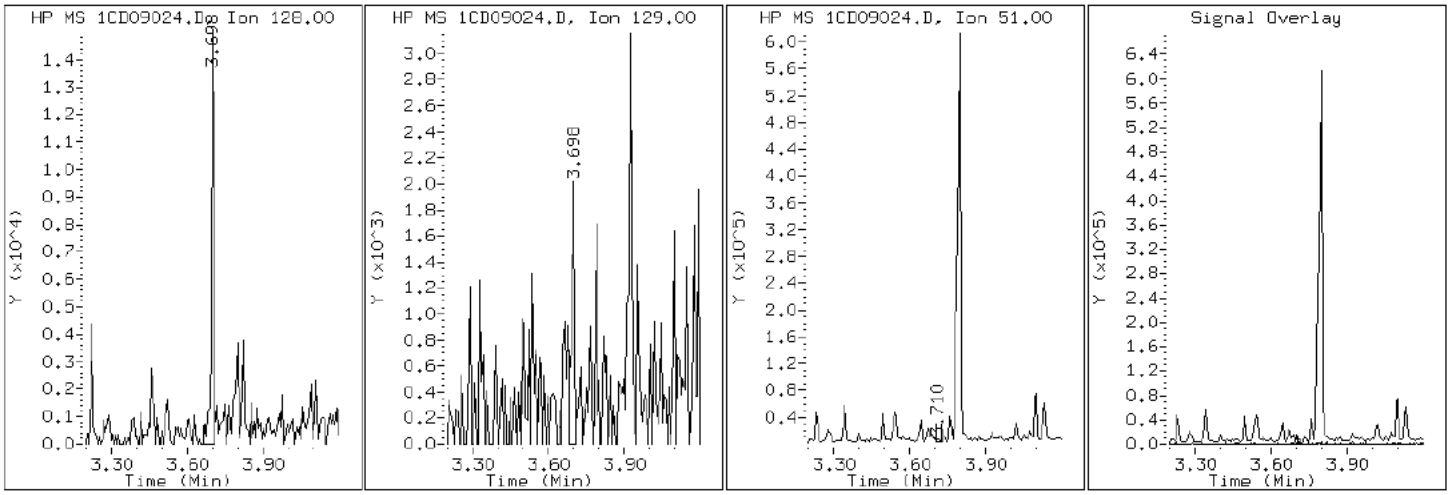
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

2 Naphthalene



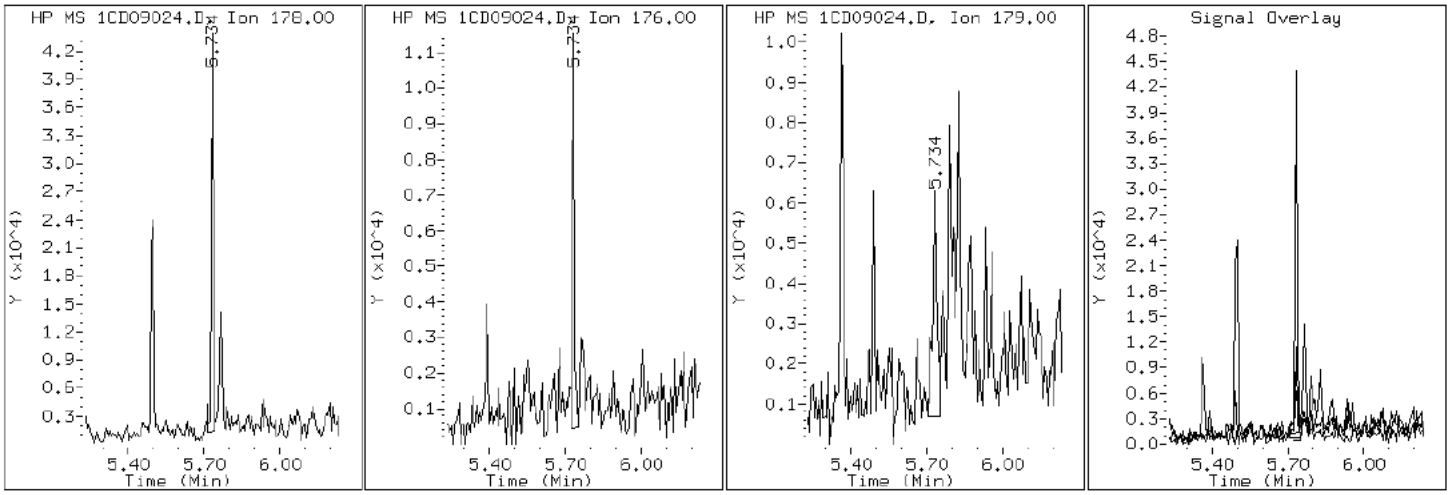
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

11 Phenanthrene



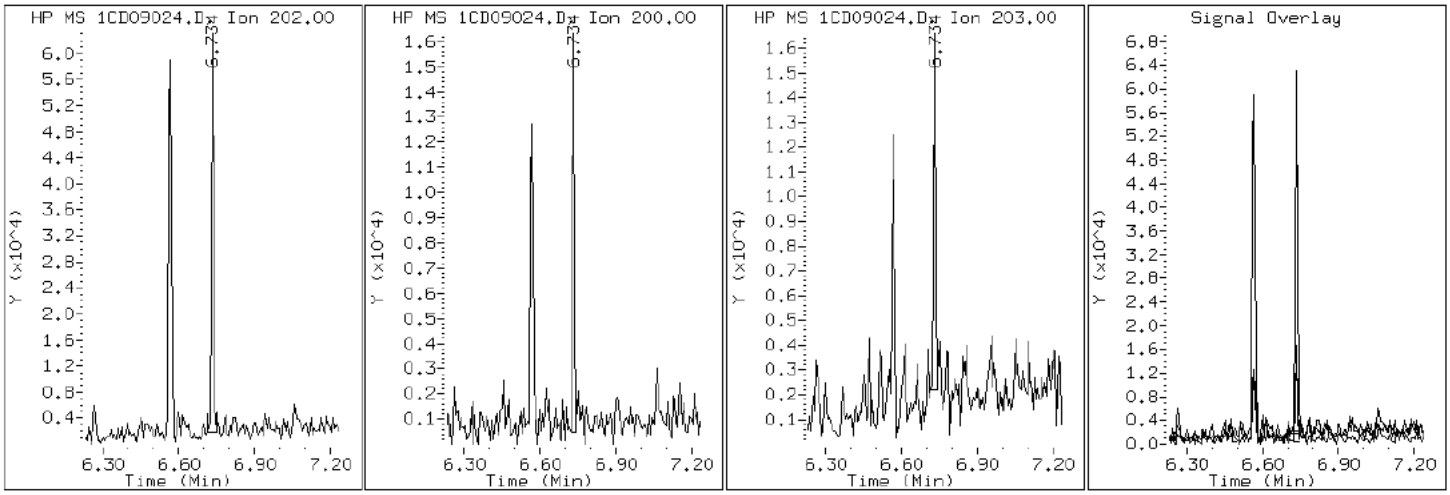
Data File: 1CD09024.D

Date: 09-APR-2013 18:16

Client ID: CV1119D-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-48-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD09024.D
Inj. Date and Time: 09-APR-2013 18:16
Instrument ID: BSMC5973.i
Client ID: CV1119D-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

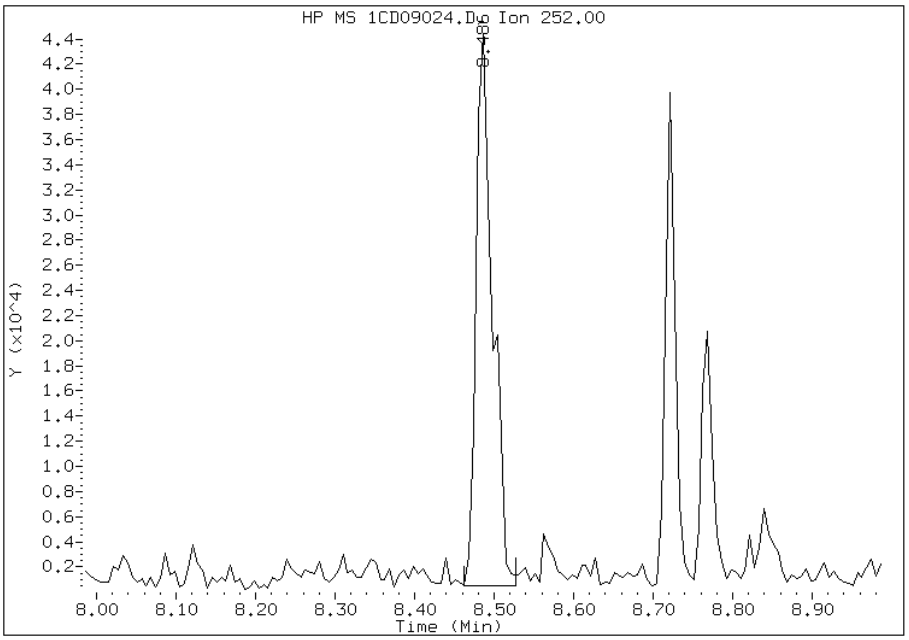
Processing Integration Results

RT: 8.49

Response: 62655

Amount: 4

Conc: 1677



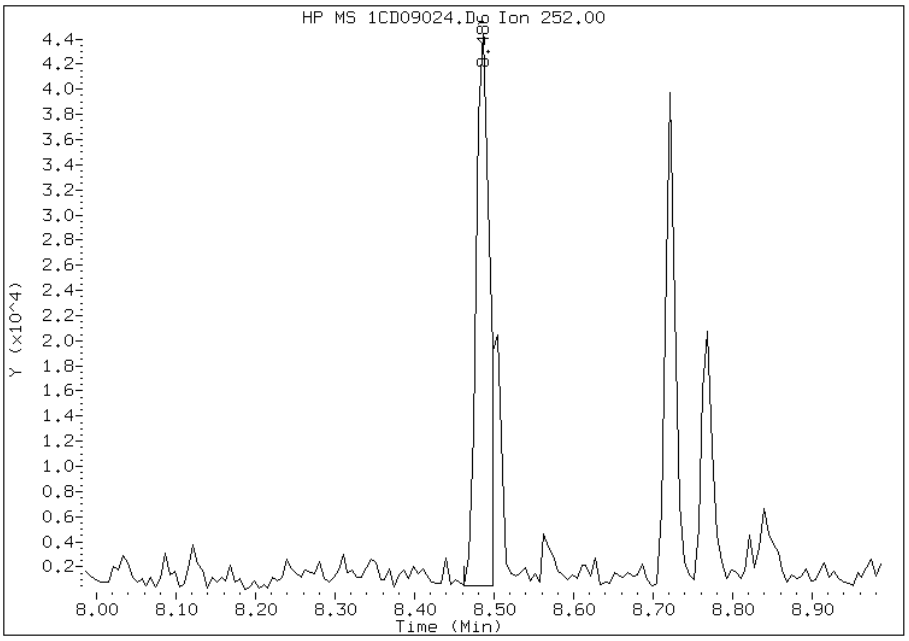
Manual Integration Results

RT: 8.49

Response: 51194

Amount: 3

Conc: 1370



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:56
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09024.D
Inj. Date and Time: 09-APR-2013 18:16
Instrument ID: BSMC5973.i
Client ID: CV1119D-GS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/10/2013

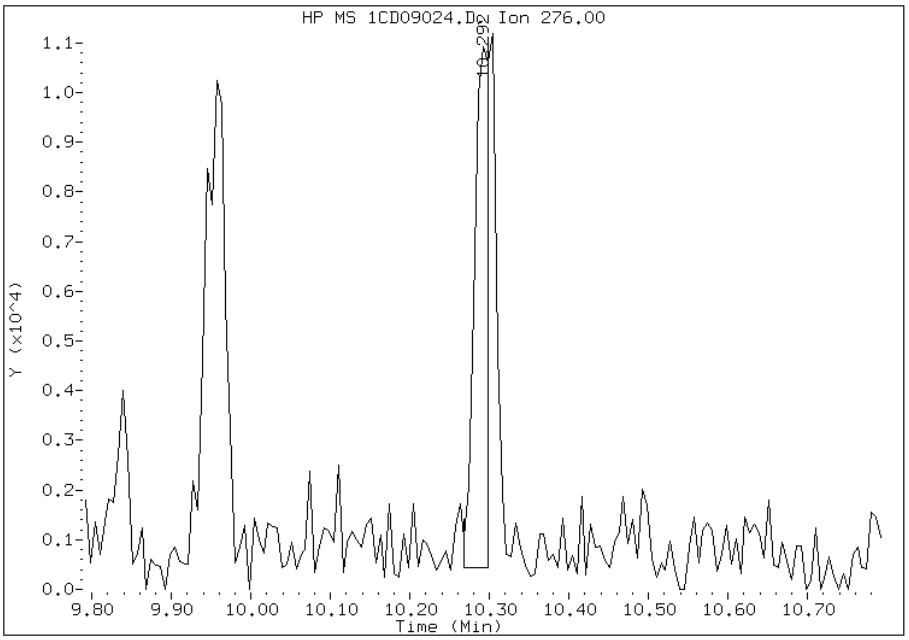
Processing Integration Results

RT: 10.29

Response: 13314

Amount: 1

Conc: 390



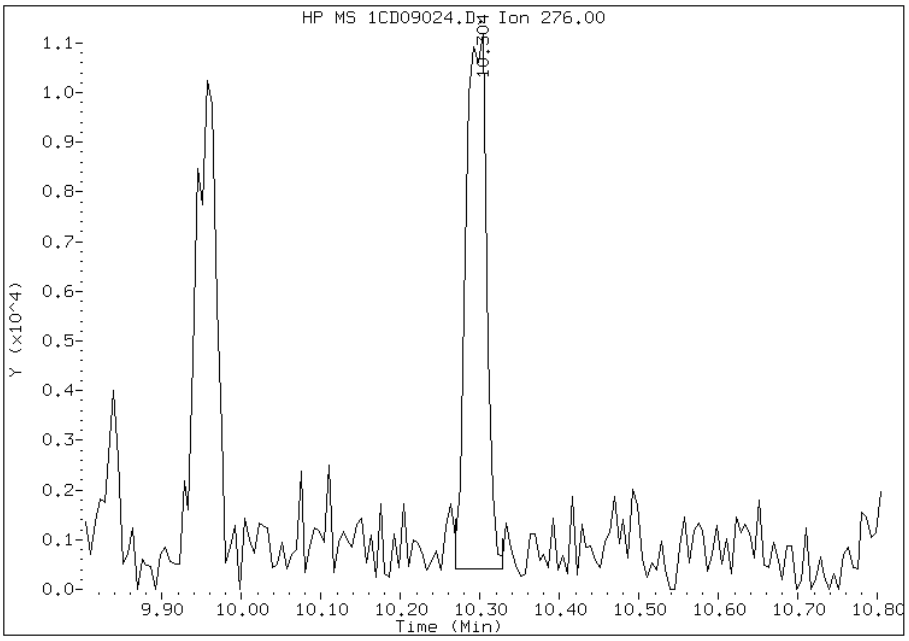
Manual Integration Results

RT: 10.30

Response: 19399

Amount: 1

Conc: 569



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 15:07
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CD09024.D
Inj. Date and Time: 09-APR-2013 18:16
Instrument ID: BSMC5973.i
Client ID: CV1119D-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

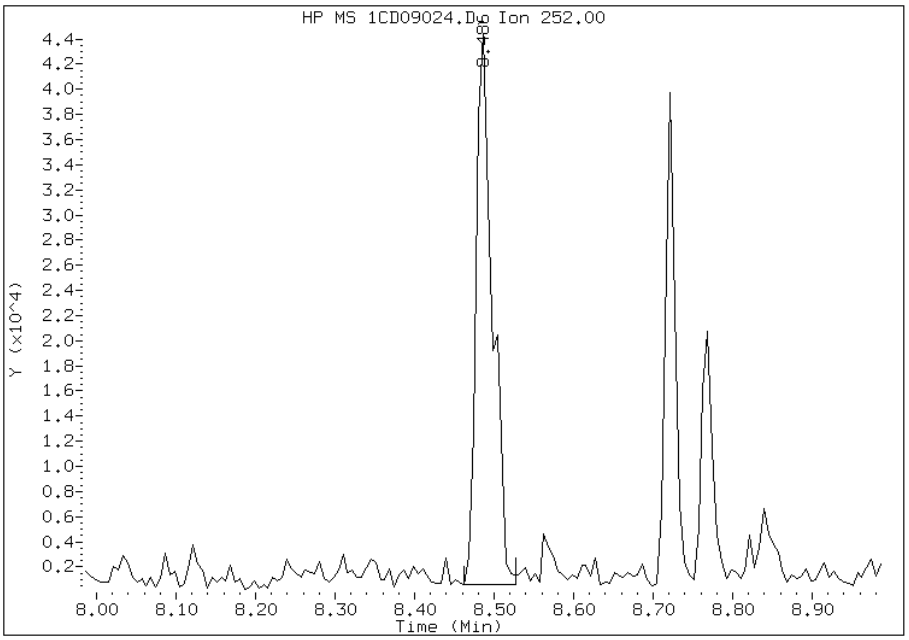
Processing Integration Results

RT: 8.49

Response: 62120

Amount: 4

Conc: 1719



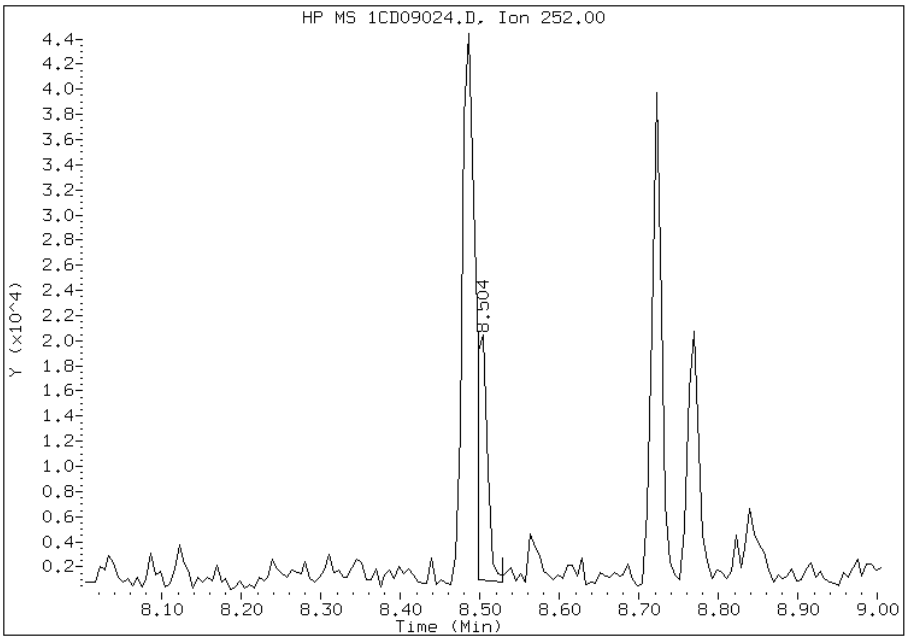
Manual Integration Results

RT: 8.50

Response: 17338

Amount: 1

Conc: 480



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:57
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09024.D
Inj. Date and Time: 09-APR-2013 18:16
Instrument ID: BSMC5973.i
Client ID: CV1119D-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

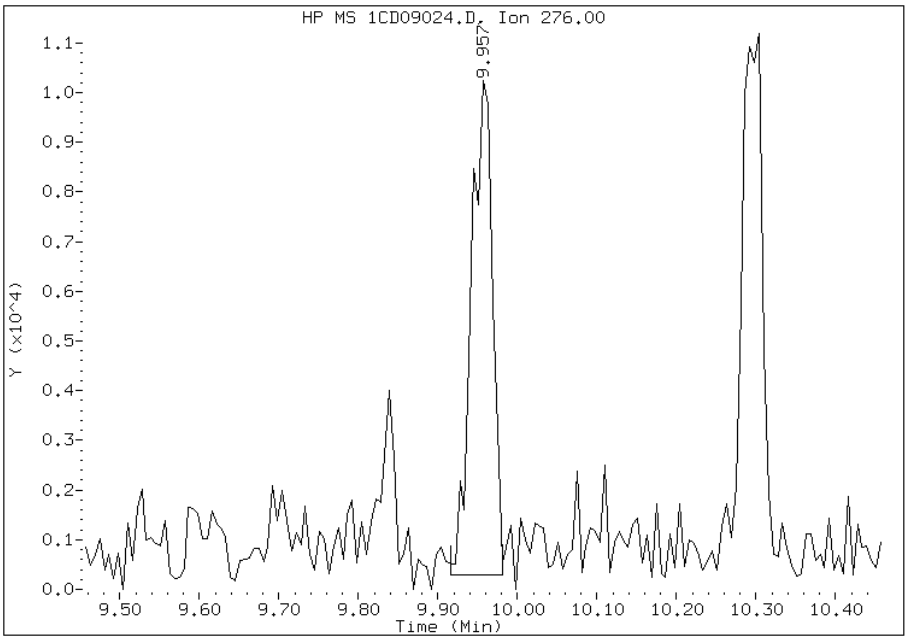
Processing Integration Results

RT: 9.96

Response: 18263

Amount: 1

Conc: 547



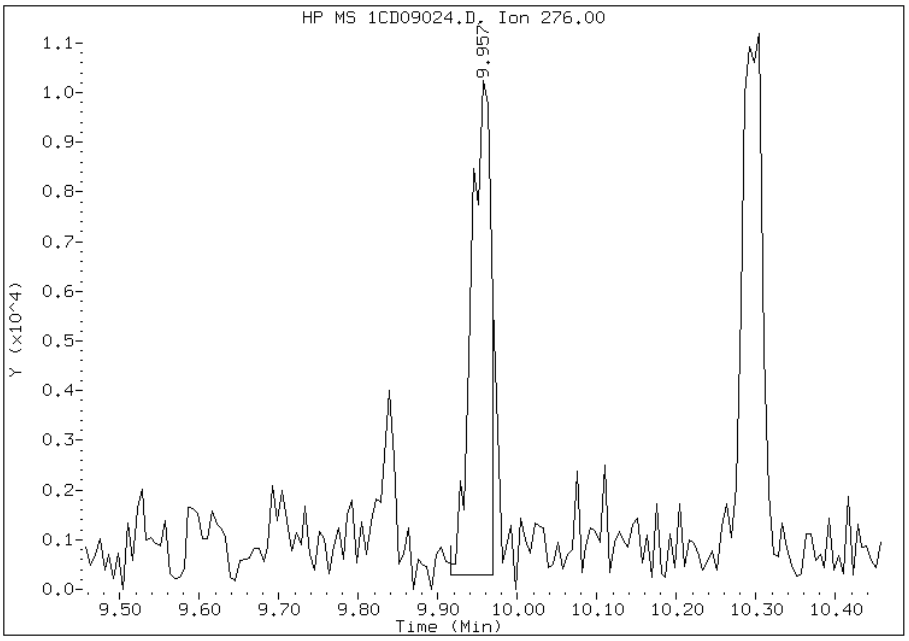
Manual Integration Results

RT: 9.96

Response: 17139

Amount: 1

Conc: 513



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1120A-CS | Lab Sample ID: 680-88811-49

Matrix: Solid | Lab File ID: 1CD09025.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 09:55

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.33(g) | Date Analyzed: 04/09/2013 18:34

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

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

% Moisture: 16.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	24	J	47	5.8
120-12-7	Anthracene	24		9.8	4.9
56-55-3	Benzo[a]anthracene	98		9.3	4.5
50-32-8	Benzo[a]pyrene	93		12	6.1
205-99-2	Benzo[b]fluoranthene	140		14	7.1
191-24-2	Benzo[g,h,i]perylene	68		23	5.1
207-08-9	Benzo[k]fluoranthene	58		9.3	4.2
218-01-9	Chrysene	110		10	5.2
53-70-3	Dibenz(a,h)anthracene	21	J	23	4.8
206-44-0	Fluoranthene	110		23	4.7
86-73-7	Fluorene	7.1	J	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	67		23	8.3
90-12-0	1-Methylnaphthalene	74		47	5.1
91-57-6	2-Methylnaphthalene	60		47	8.3
91-20-3	Naphthalene	45	J	47	5.1
85-01-8	Phenanthrene	110		9.3	4.5
129-00-0	Pyrene	130		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	55		30-130

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09025.D
Lab Smp Id: 680-88811-A-49-A Client Smp ID: CV1120A-CS
Inj Date : 09-APR-2013 18:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-49-a
Misc Info : 680-88811-A-49-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.330	Weight Extracted
M	16.097	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.686	3.686	(1.000)	391981	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.774	(1.000)	291134	40.0000	
* 10 Phenanthrene-d10	188	5.715	5.716	(1.000)	527978	40.0000	
$ 14 o-Terphenyl	230	5.968	5.968	(1.044)	40760	5.45509	424.1113
* 18 Chrysene-d12	240	7.656	7.657	(1.000)	562871	40.0000	
* 23 Perylene-d12	264	8.821	8.827	(1.000)	536073	40.0000	
2 Naphthalene	128	3.698	3.698	(1.003)	5765	0.57261	44.5180
3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	5285	0.77115	59.9537(Q)
4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	5867	0.95139	73.9671
5 Acenaphthylene	152	4.686	4.686	(0.982)	3730	0.30956	24.0671
9 Fluorene	166	5.115	5.110	(1.071)	908	0.09127	7.0956(Q)
11 Phenanthrene	178	5.733	5.733	(1.003)	21516	1.39922	108.7835
12 Anthracene	178	5.768	5.768	(1.009)	4901	0.31441	24.4441
13 Carbazole	167	5.874	5.874	(1.028)	2920	0.21865	16.9988(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.568	(1.149)	24998	1.47202	114.4433
16 Pyrene	202	6.733	6.733	(0.879)	26468	1.69754	131.9771
17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	18443	1.26647	98.4627
19 Chrysene	228	7.674	7.674	(1.002)	22075	1.37630	107.0019
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	26549	1.75180	136.1957(M)
21 Benzo(k)fluoranthene	252	8.503	8.509	(0.964)	10938	0.74622	58.0157(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	17129	1.20049	93.3335
24 Indeno(1,2,3-cd)pyrene	276	9.950	9.956	(1.128)	11698	0.86318	67.1089
25 Dibenzo(a,h)anthracene	278	9.962	9.974	(1.129)	3409	0.27231	21.1706(Q)
26 Benzo(g,h,i)perylene	276	10.292	10.298	(1.167)	12161	0.87922	68.3556

QC Flag Legend

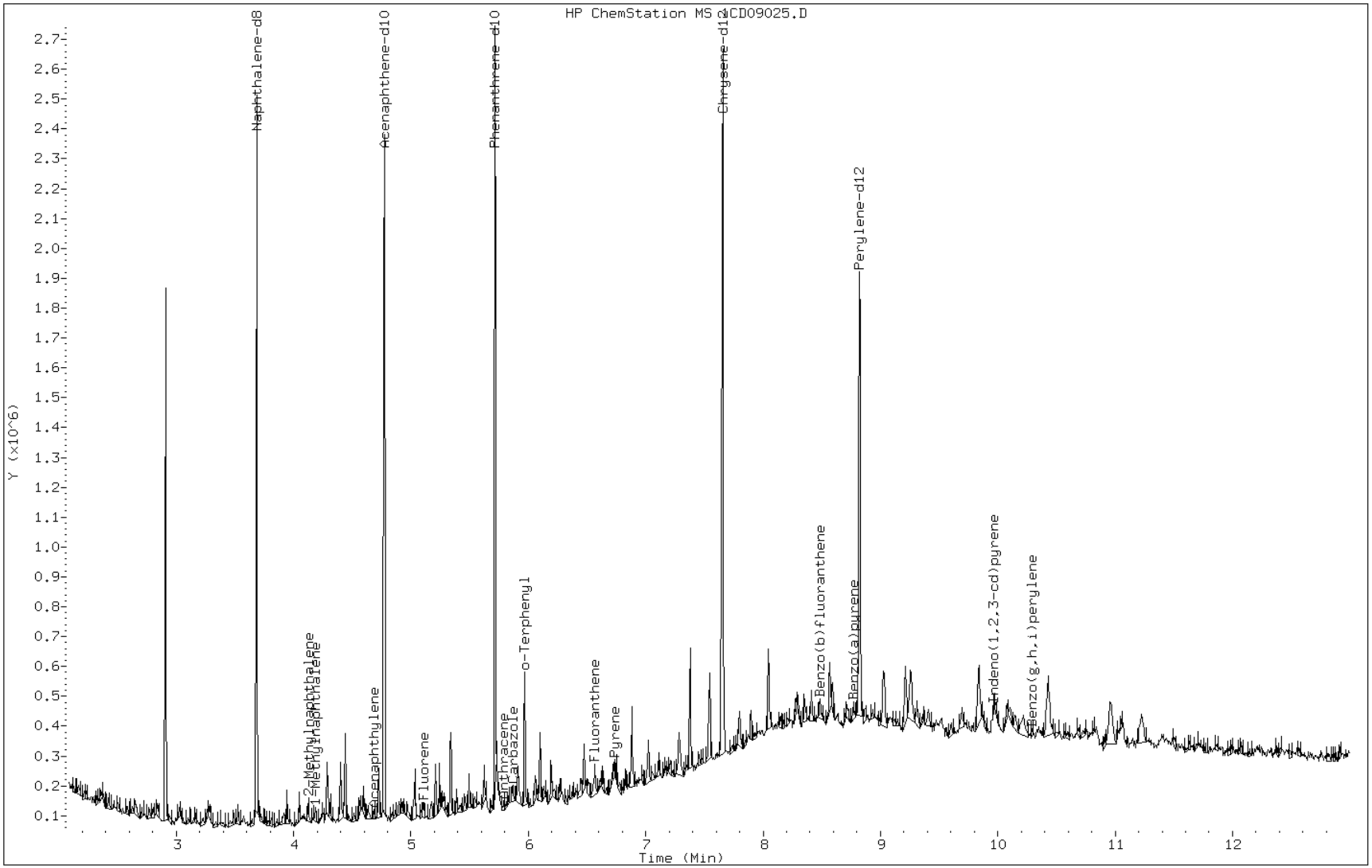
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC



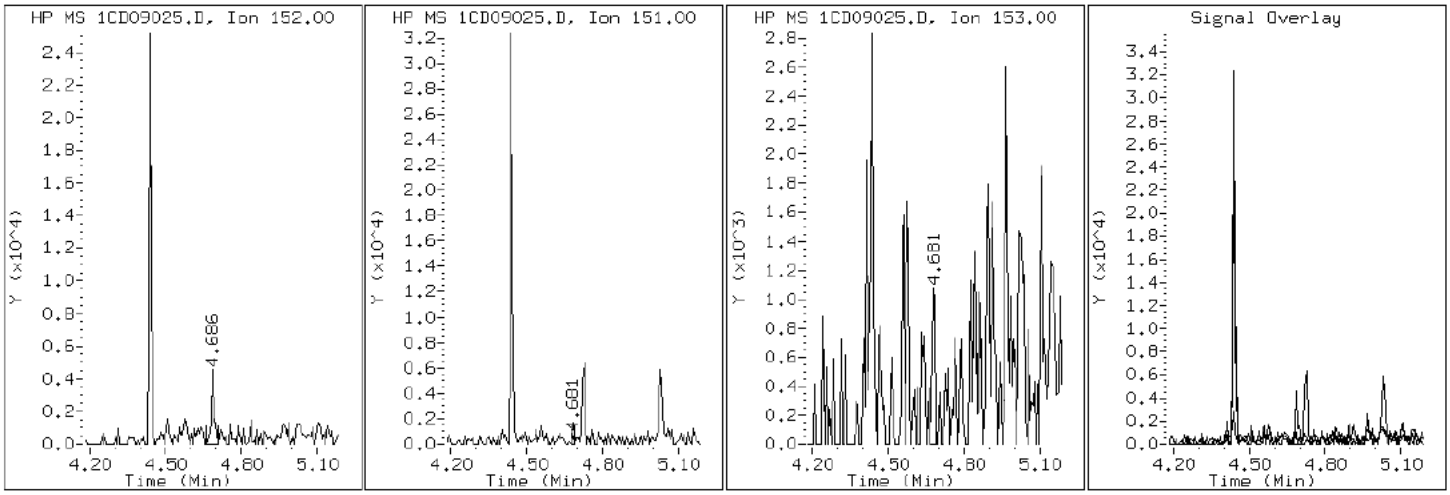
Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC

5 Acenaphthylene



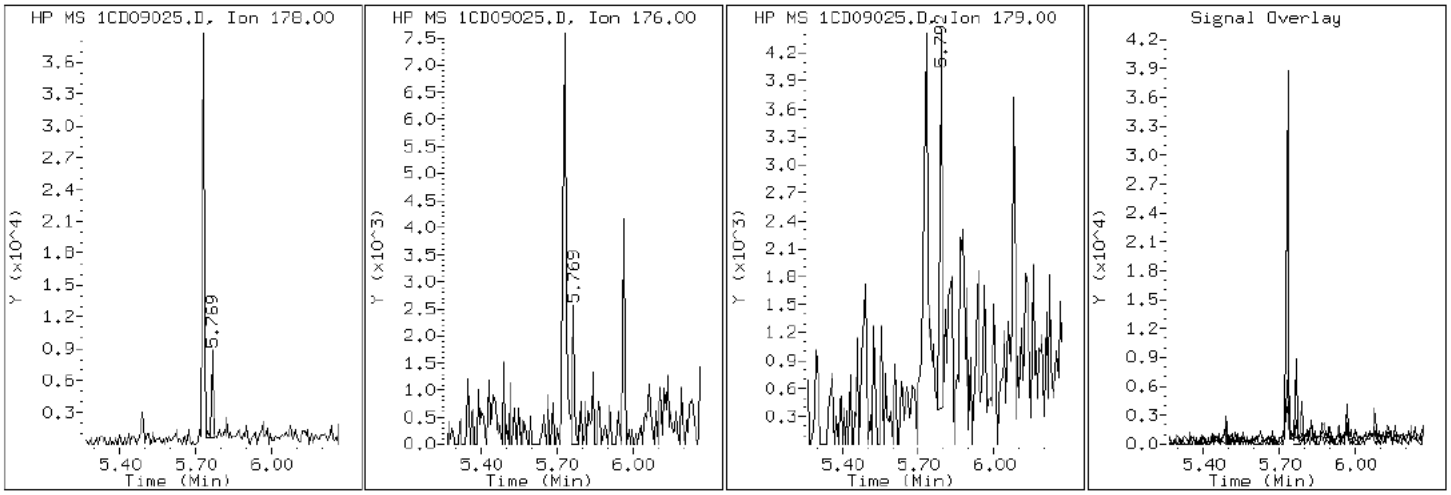
Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC

12 Anthracene



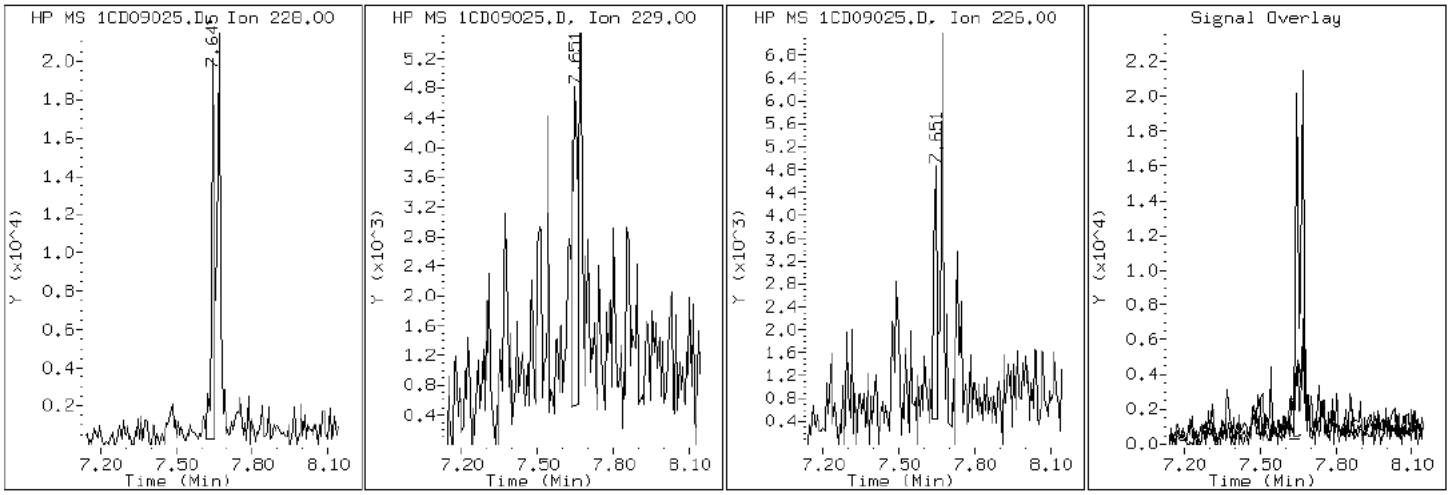
Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC

17 Benzo(a)anthracene



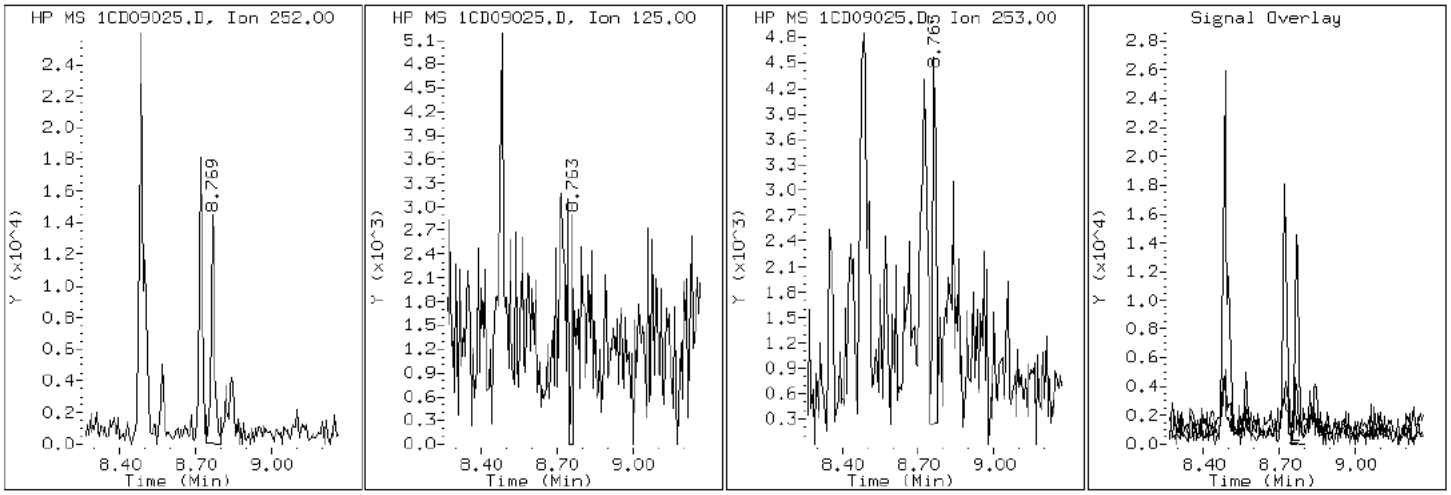
Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC

22 Benzo(a)pyrene



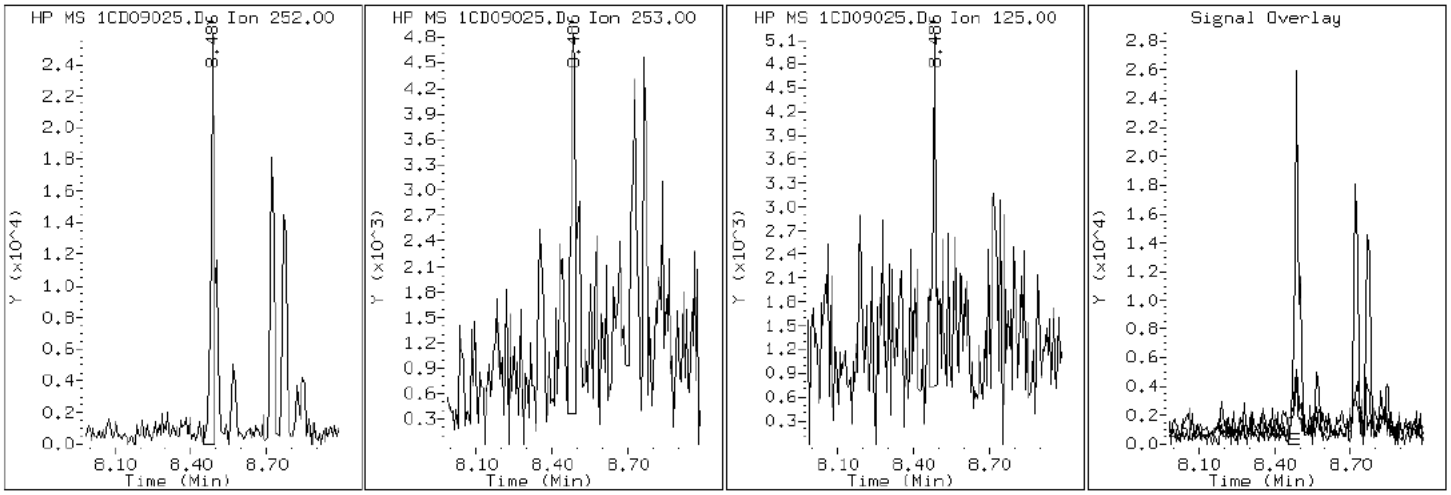
Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC

20 Benzo(b)fluoranthene



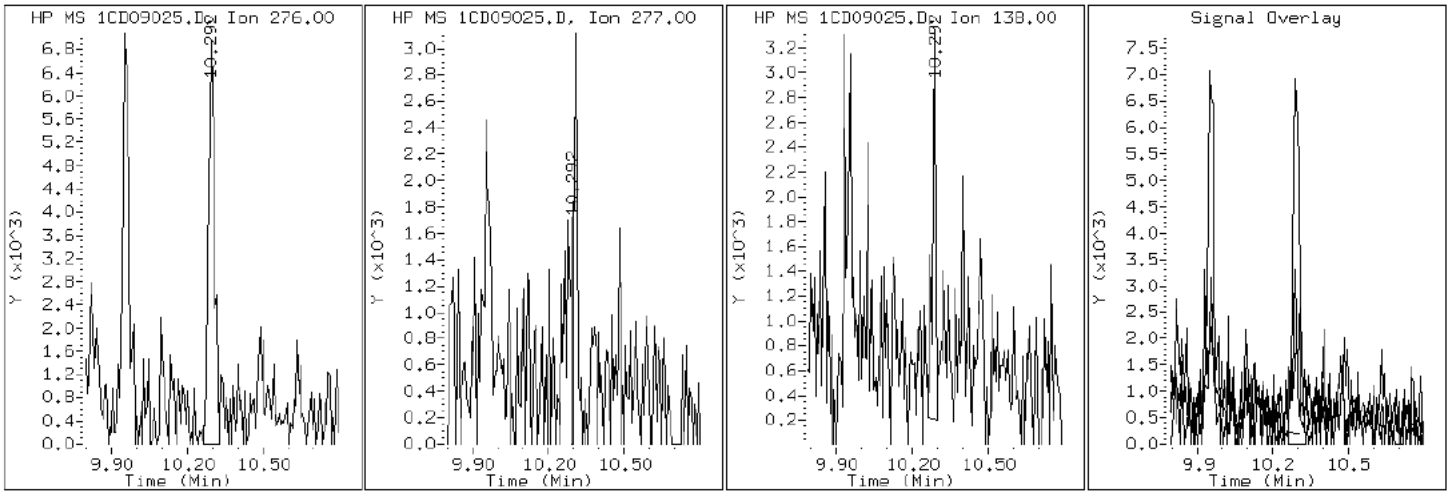
Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC

26 Benzo(g,h,i)perylene



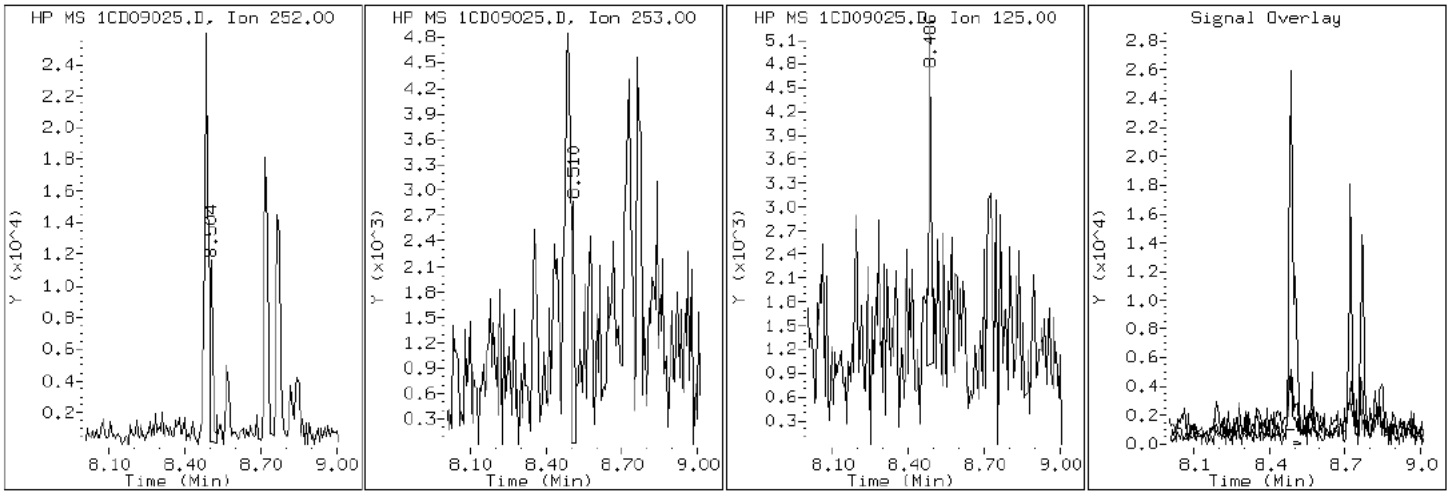
Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC

21 Benzo(k)fluoranthene



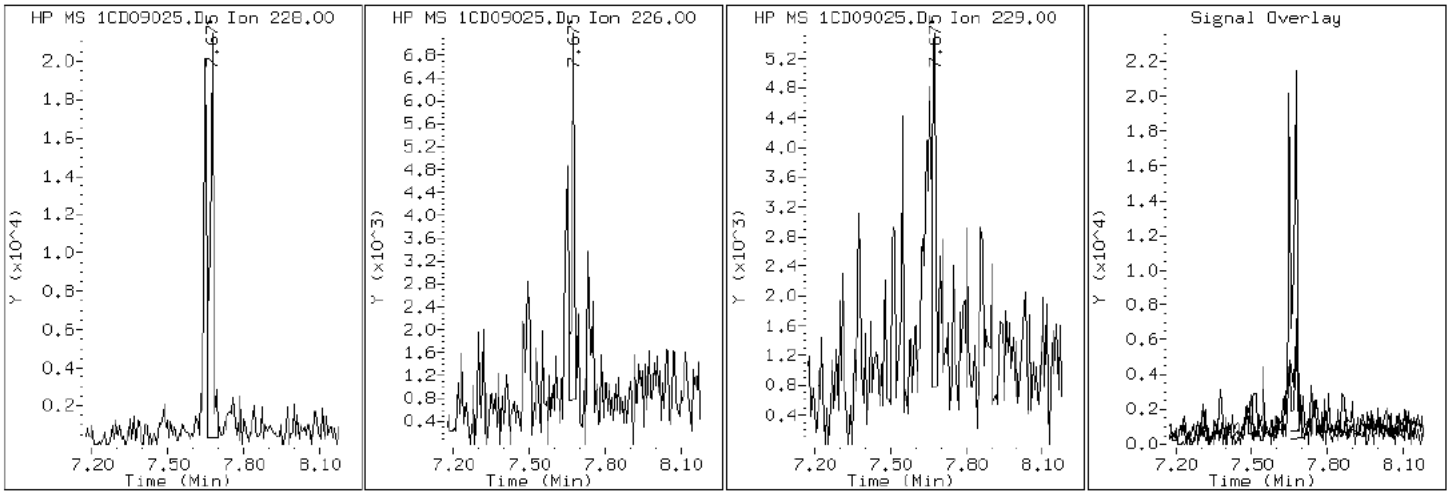
Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC

19 Chrysene



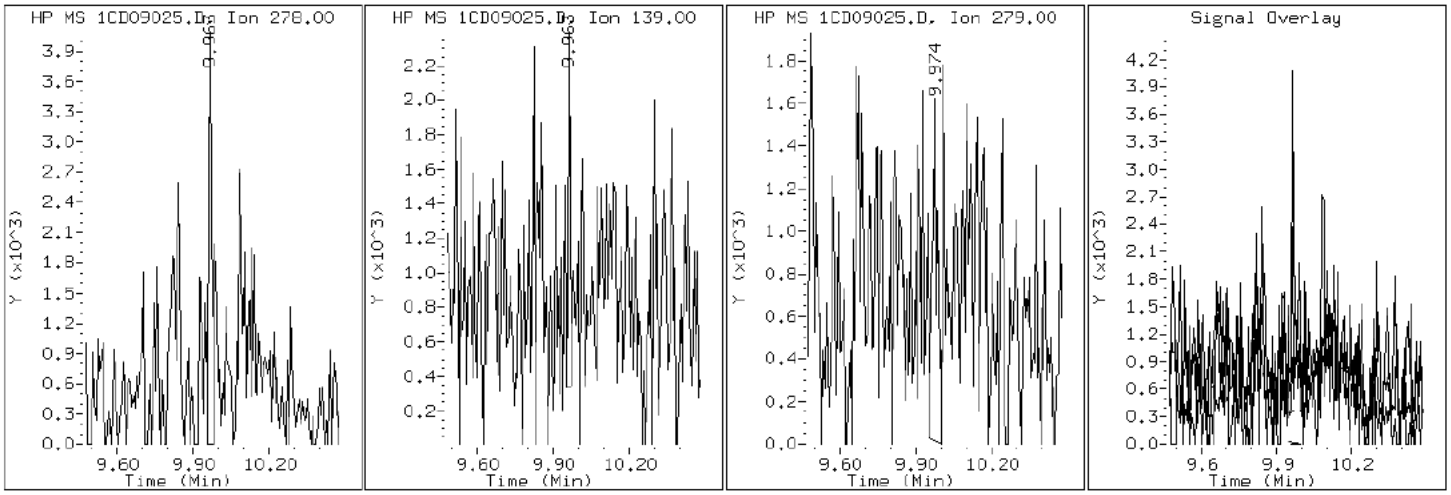
Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC

25 Dibenzo(a,h)anthracene



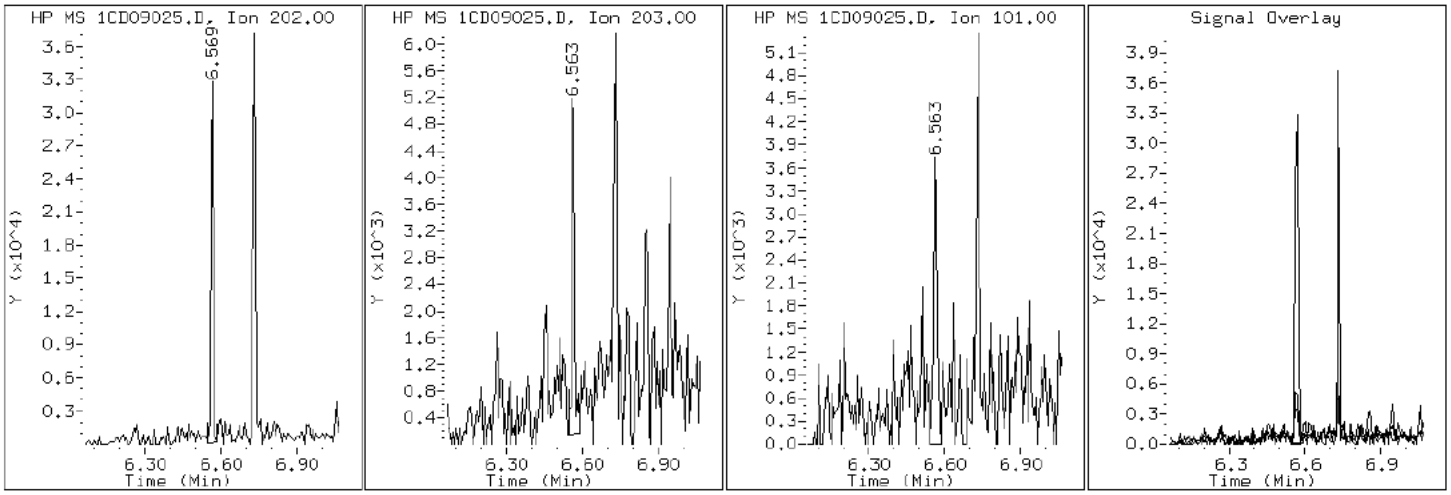
Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC

15 Fluoranthene



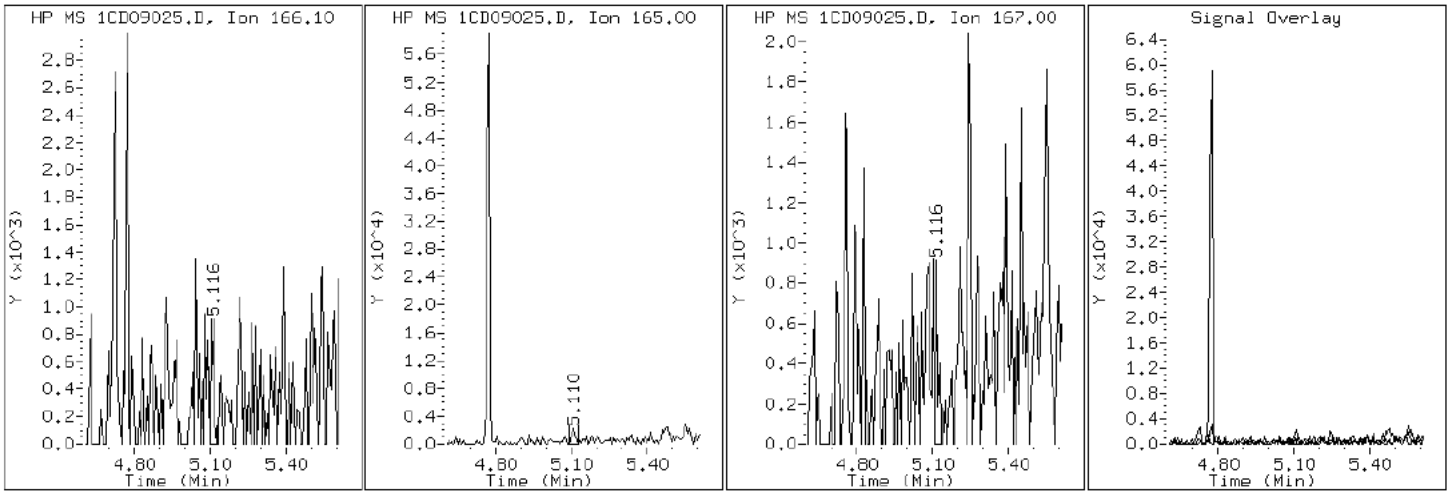
Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC

9 Fluorene



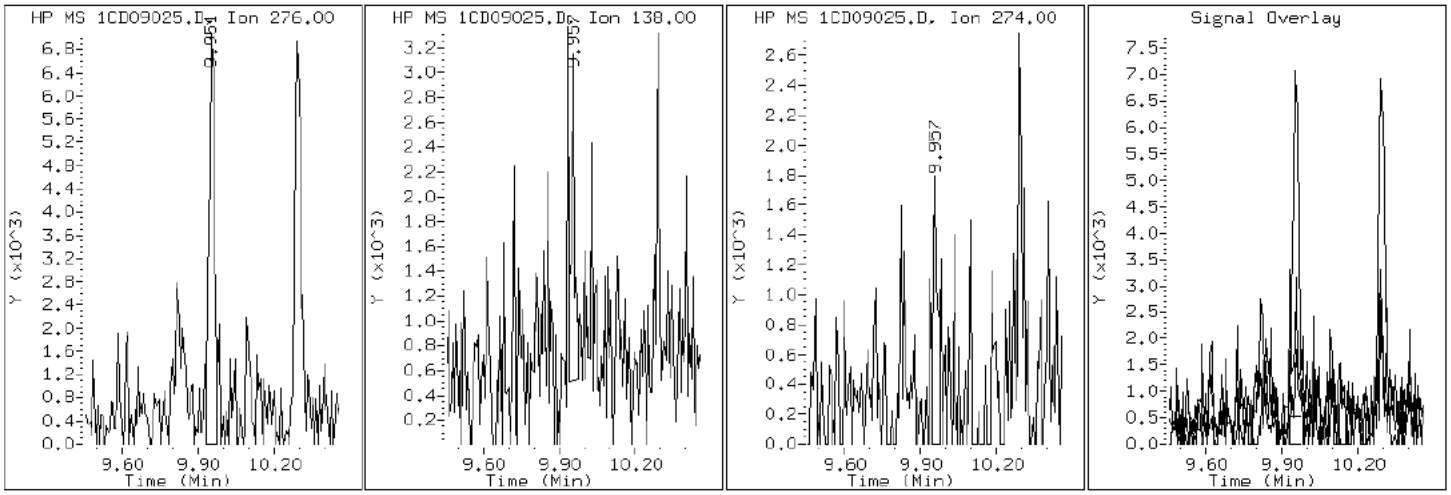
Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC

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



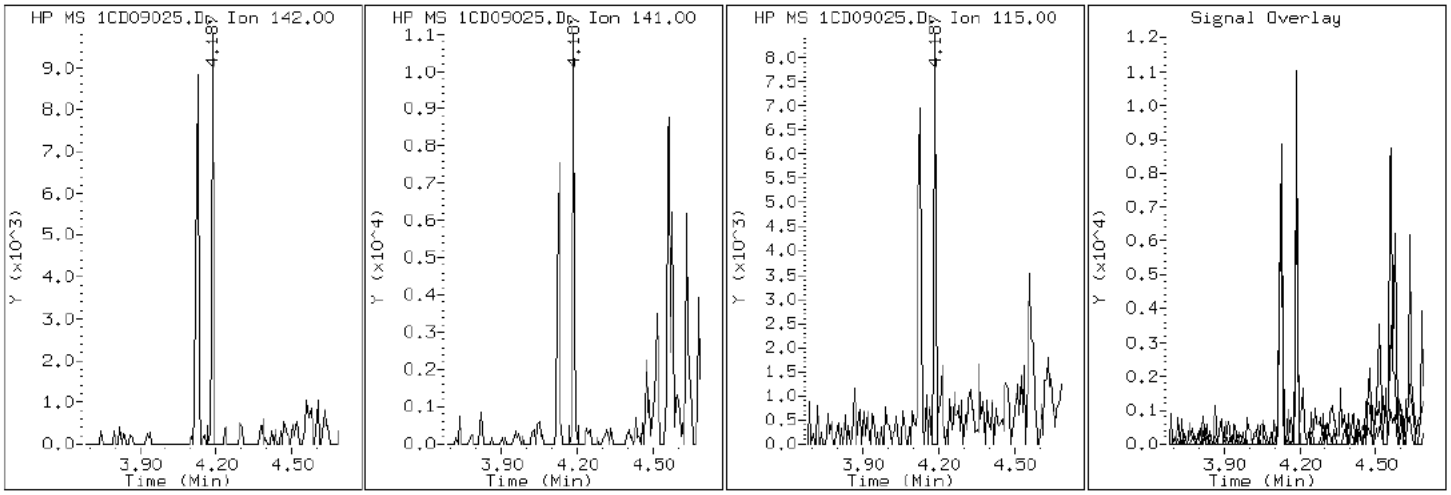
Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC

4 1-Methylnaphthalene



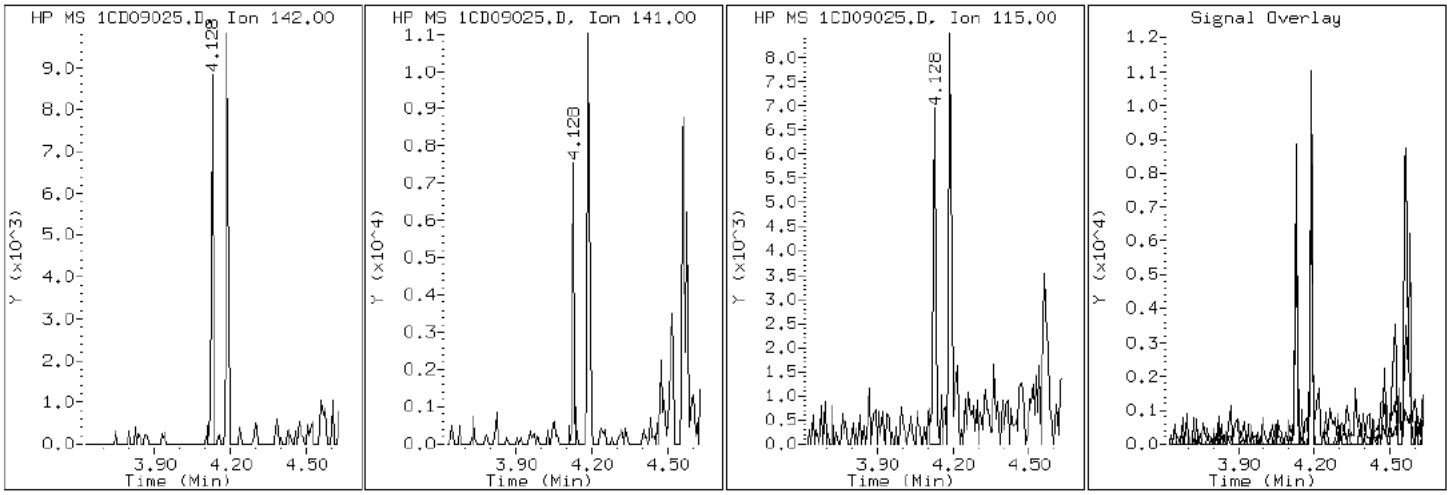
Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC

3 2-Methylnaphthalene



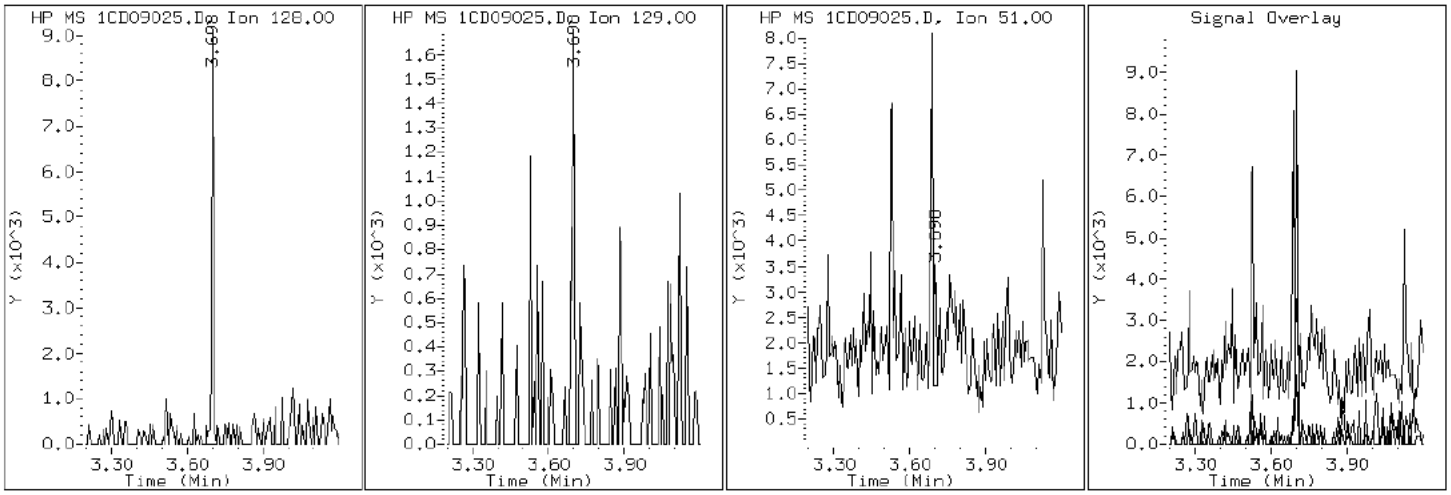
Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC

2 Naphthalene



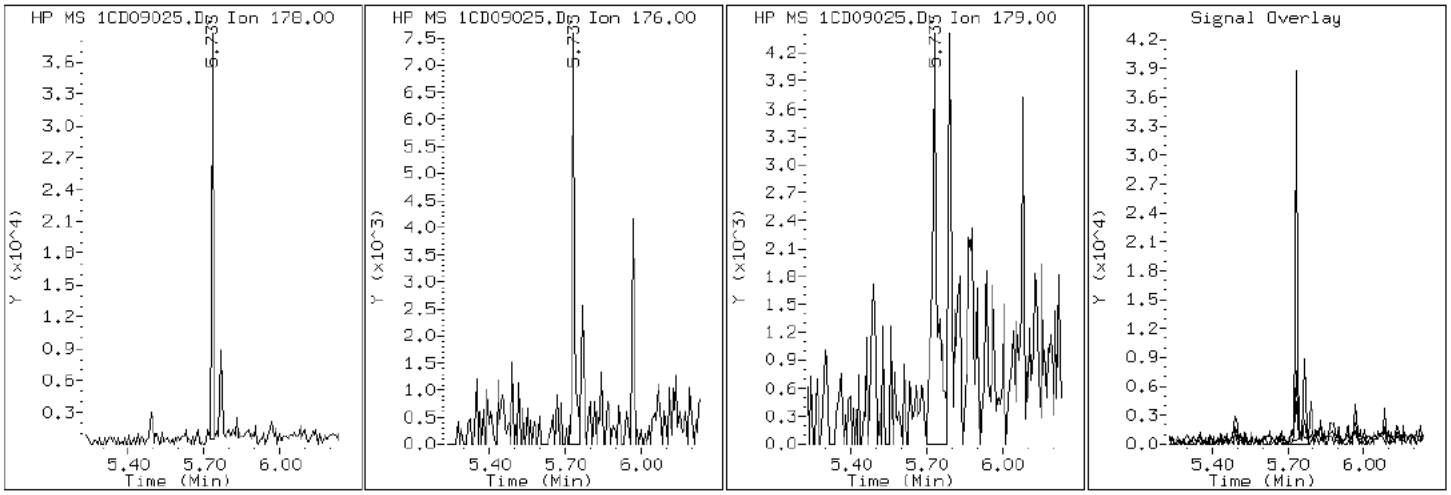
Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC

11 Phenanthrene



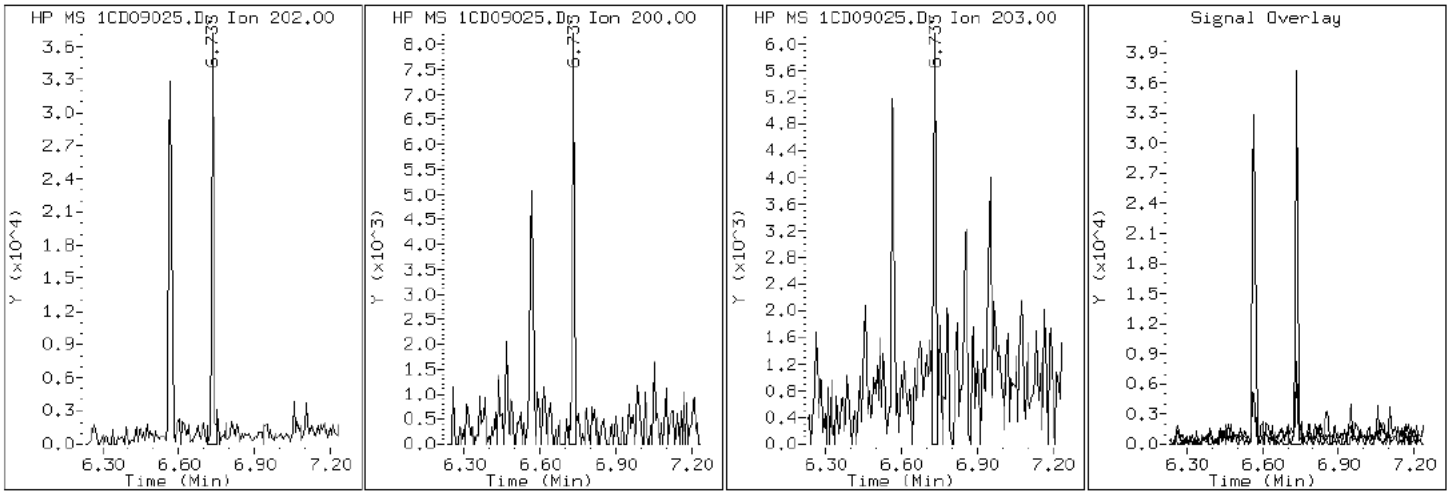
Data File: 1CD09025.D

Date: 09-APR-2013 18:34

Client ID: CV1120A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-49-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD09025.D
Inj. Date and Time: 09-APR-2013 18:34
Instrument ID: BSMC5973.i
Client ID: CV1120A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

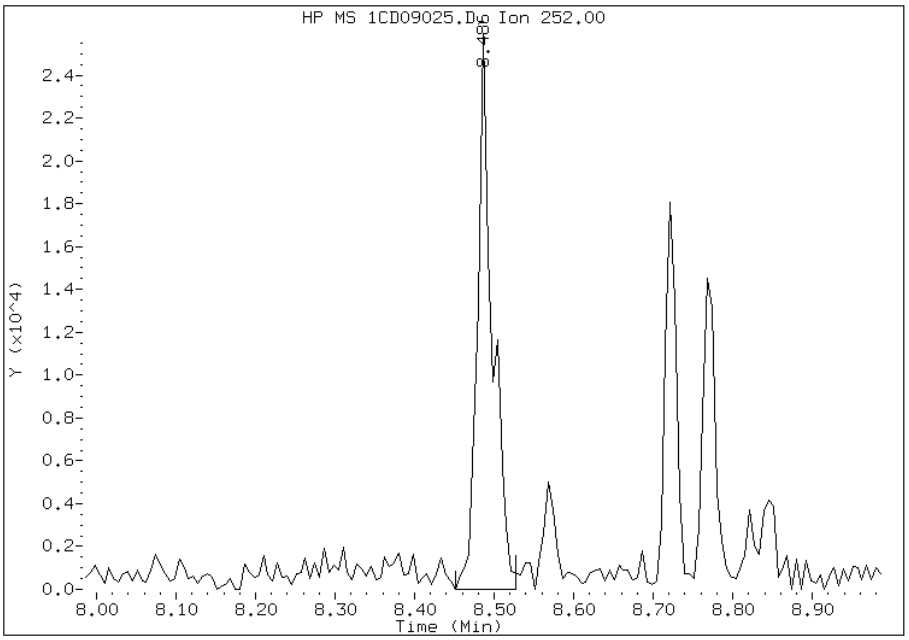
Processing Integration Results

RT: 8.49

Response: 34278

Amount: 2

Conc: 176



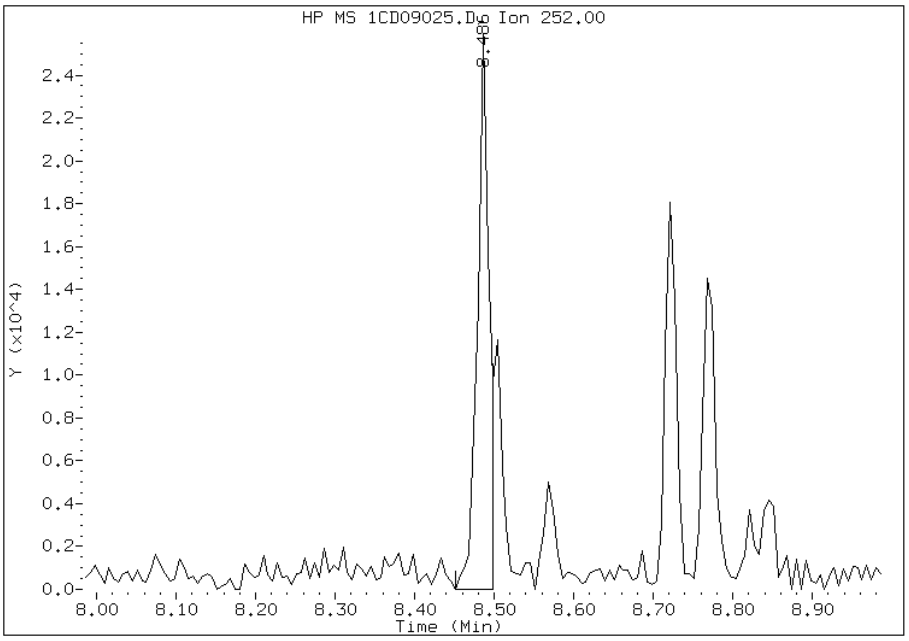
Manual Integration Results

RT: 8.49

Response: 26549

Amount: 2

Conc: 136



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:55
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09025.D
Inj. Date and Time: 09-APR-2013 18:34
Instrument ID: BSMC5973.i
Client ID: CV1120A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

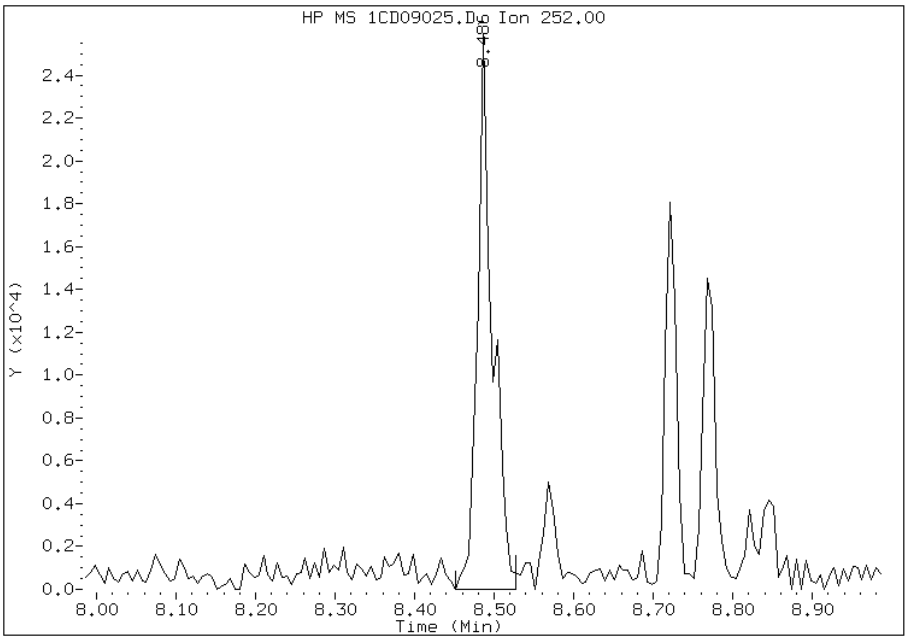
Processing Integration Results

RT: 8.49

Response: 34278

Amount: 2

Conc: 182



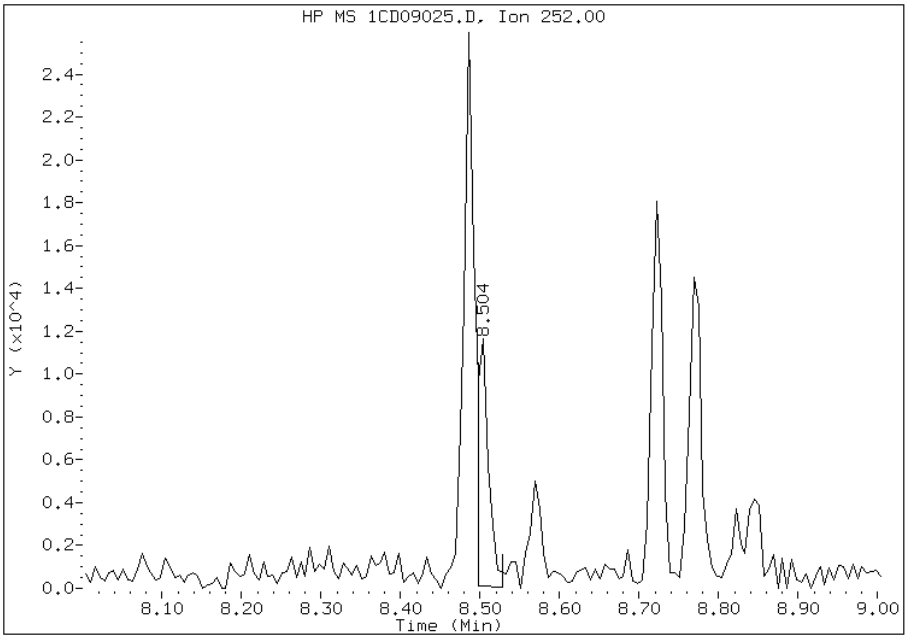
Manual Integration Results

RT: 8.50

Response: 10938

Amount: 1

Conc: 58



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:55
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1120B-CS | Lab Sample ID: 680-88811-50

Matrix: Solid | Lab File ID: 1CD09026.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 10:05

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.42(g) | Date Analyzed: 04/09/2013 18:53

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

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

% Moisture: 16.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	9.6	J	46	5.8
120-12-7	Anthracene	19		9.7	4.9
56-55-3	Benzo[a]anthracene	83		9.3	4.5
50-32-8	Benzo[a]pyrene	78		12	6.0
205-99-2	Benzo[b]fluoranthene	140		14	7.1
191-24-2	Benzo[g,h,i]perylene	55		23	5.1
207-08-9	Benzo[k]fluoranthene	59		9.3	4.2
218-01-9	Chrysene	110		10	5.2
53-70-3	Dibenz(a,h)anthracene	17	J	23	4.7
206-44-0	Fluoranthene	100		23	4.6
86-73-7	Fluorene	5.1	J	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	51		23	8.2
90-12-0	1-Methylnaphthalene	33	J	46	5.1
91-57-6	2-Methylnaphthalene	37	J	46	8.2
91-20-3	Naphthalene	35	J	46	5.1
85-01-8	Phenanthrene	75		9.3	4.5
129-00-0	Pyrene	110		23	4.3

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

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09026.D
Lab Smp Id: 680-88811-A-50-A Client Smp ID: CV1120B-CS
Inj Date : 09-APR-2013 18:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-50-a
Misc Info : 680-88811-A-50-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.420	Weight Extracted
M	15.990	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.686	3.686	(1.000)	410150	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.774	(1.000)	294600	40.0000	
* 10 Phenanthrene-d10	188	5.715	5.716	(1.000)	553524	40.0000	
$ 14 o-Terphenyl	230	5.968	5.968	(1.044)	48970	6.14551	474.4000
* 18 Chrysene-d12	240	7.656	7.657	(1.000)	580660	40.0000	
* 23 Perylene-d12	264	8.821	8.827	(1.000)	545739	40.0000	
2 Naphthalene	128	3.698	3.698	(1.003)	4740	0.44995	34.7333(Q)
3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	3395	0.47343	36.5461
4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	2759	0.42758	33.0069(Q)
5 Acenaphthylene	152	4.686	4.686	(0.982)	1511	0.12393	9.5664
9 Fluorene	166	5.110	5.110	(1.070)	669	0.06645	5.1297(Q)
11 Phenanthrene	178	5.733	5.733	(1.003)	15574	0.96606	74.5744
12 Anthracene	178	5.768	5.768	(1.009)	4034	0.24685	19.0551
13 Carbazole	167	5.874	5.874	(1.028)	3592	0.25655	19.8044(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.568	(1.149)	23500	1.31994	101.8923
16 Pyrene	202	6.733	6.733	(0.879)	23515	1.46195	112.8543
17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	15817	1.07574	83.0413
19 Chrysene	228	7.674	7.674	(1.002)	22942	1.38654	107.0330
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	28613	1.85455	143.1616(M)
21 Benzo(k)fluoranthene	252	8.503	8.509	(0.964)	11381	0.76269	58.8757(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	14698	1.01187	78.1109
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.129)	9146	0.66292	51.1738(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.974	(1.130)	2844	0.22315	17.2260(Q)
26 Benzo(g,h,i)perylene	276	10.286	10.298	(1.166)	9969	0.70797	54.6517

QC Flag Legend

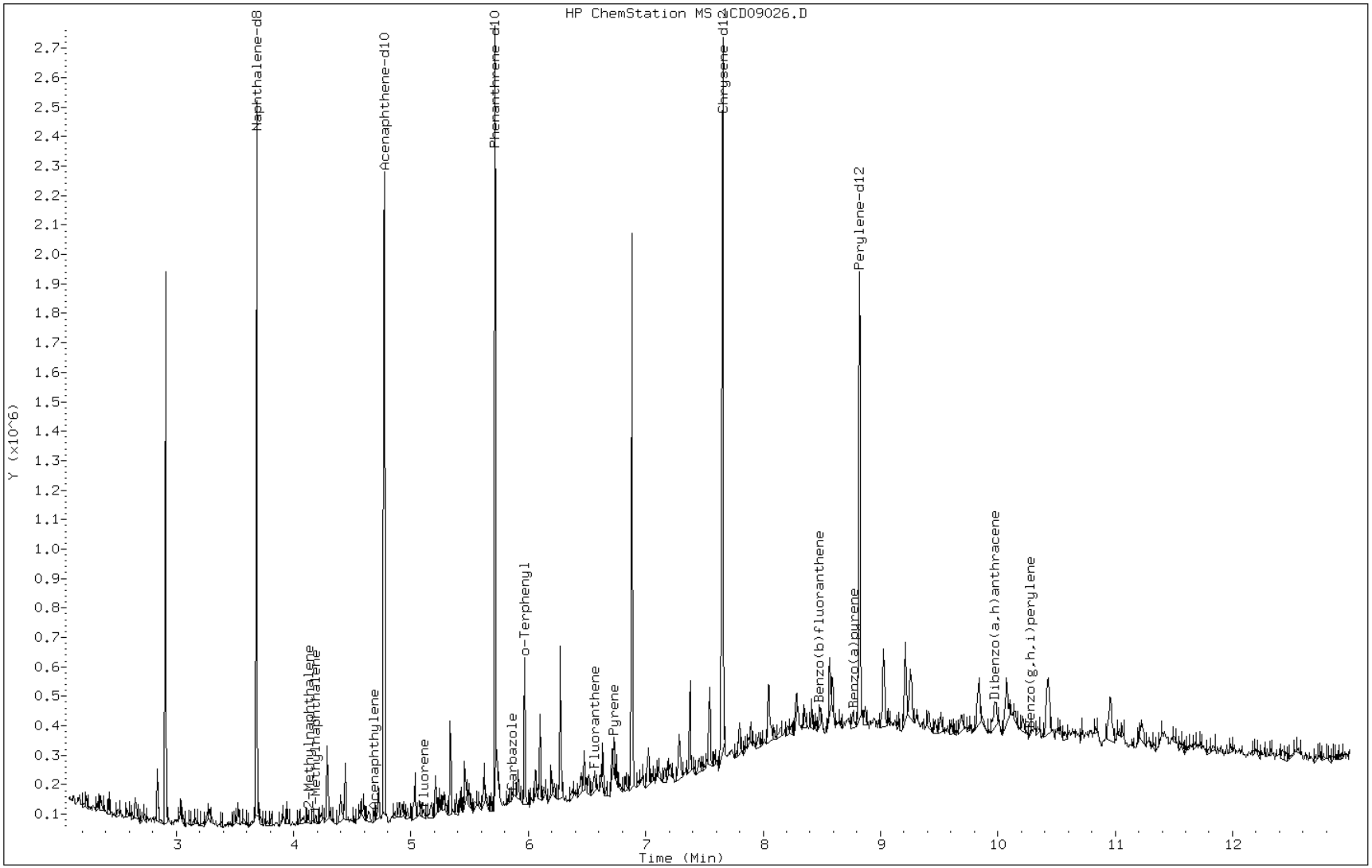
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC



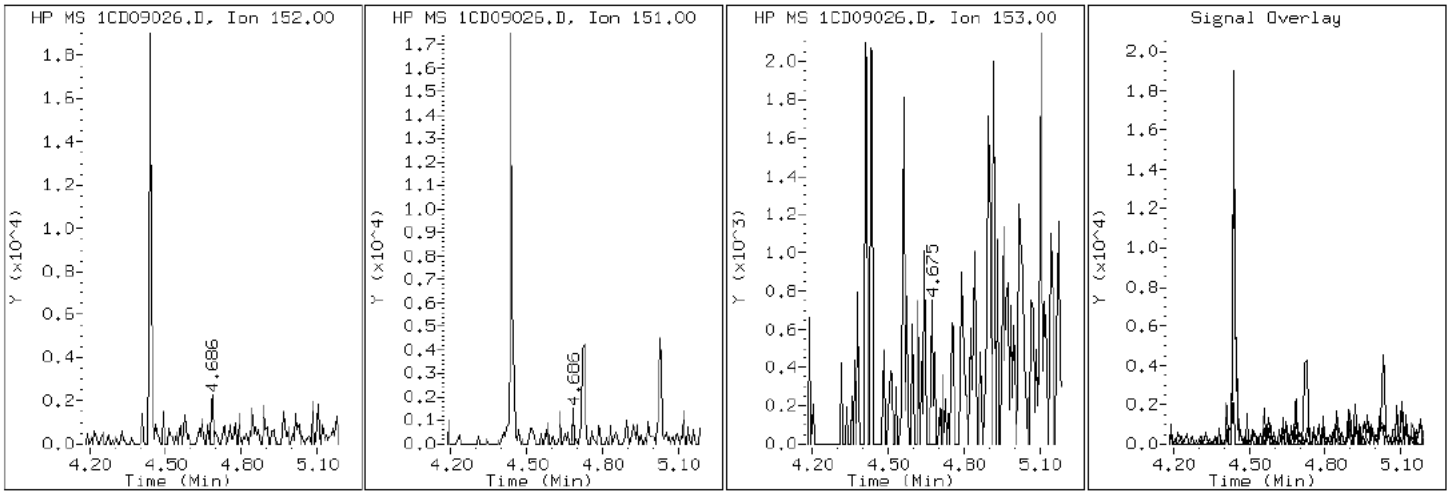
Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC

5 Acenaphthylene



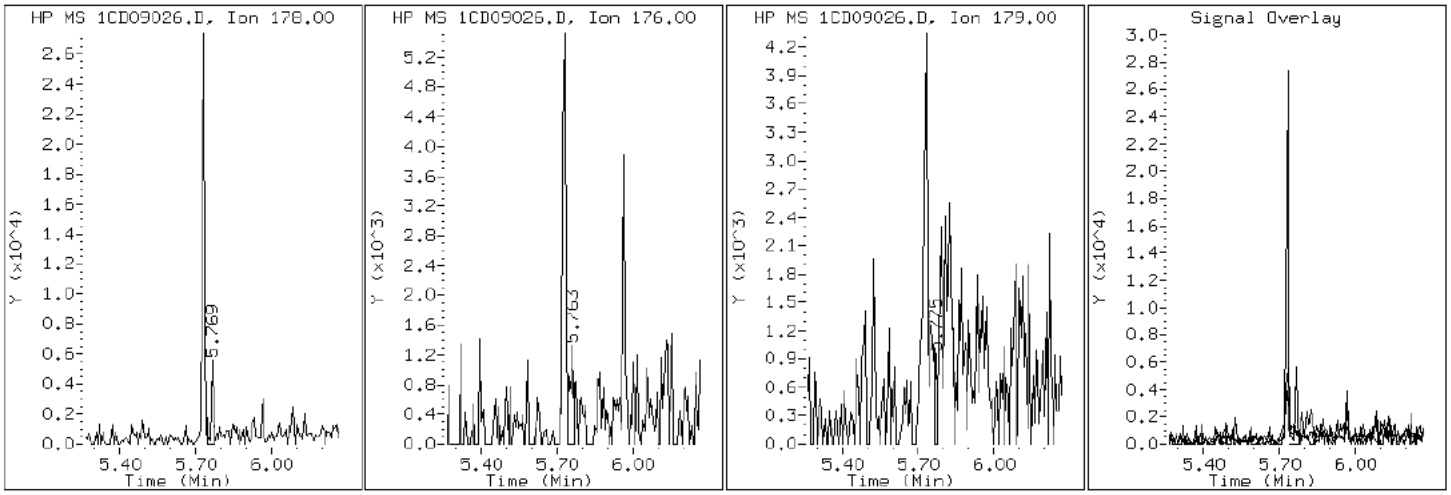
Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC

12 Anthracene



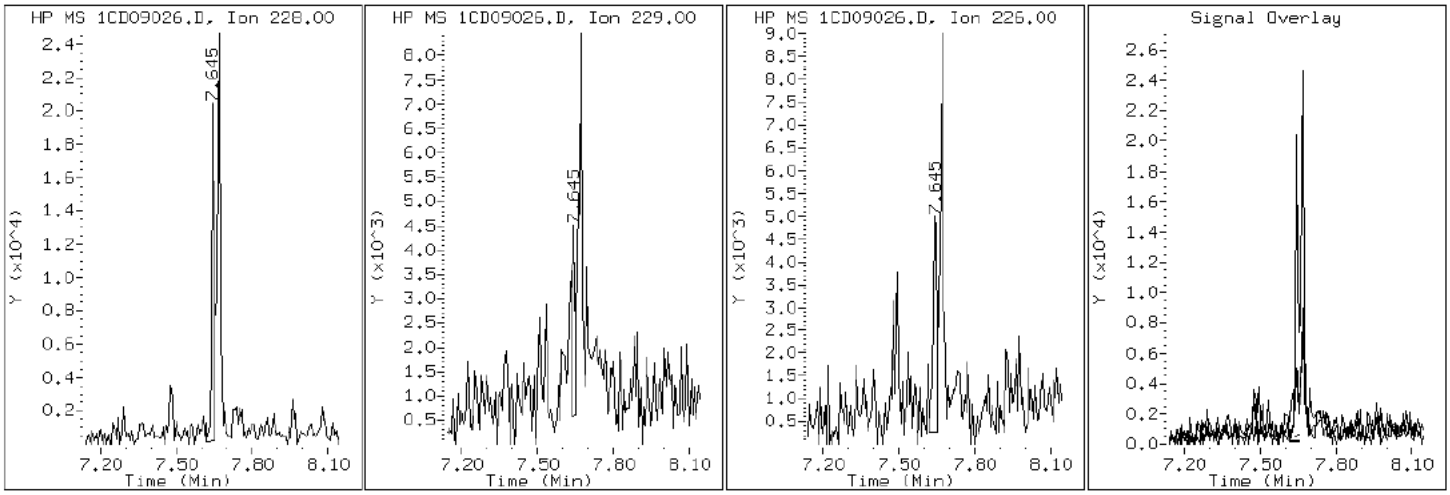
Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC

17 Benzo(a)anthracene



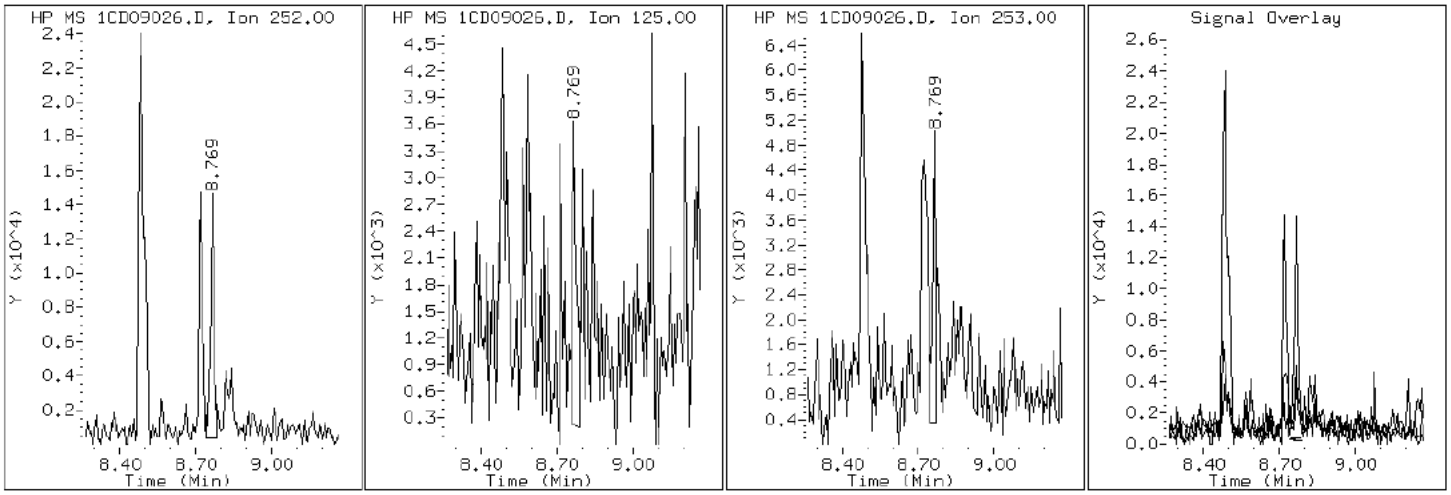
Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC

22 Benzo(a)pyrene



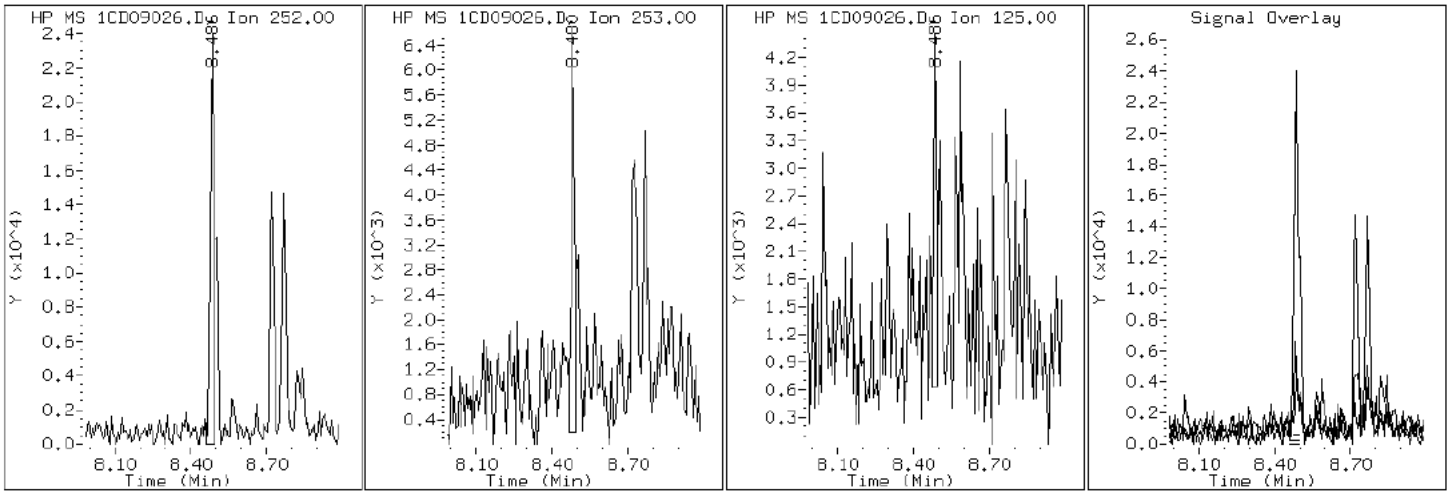
Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC

20 Benzo(b)fluoranthene



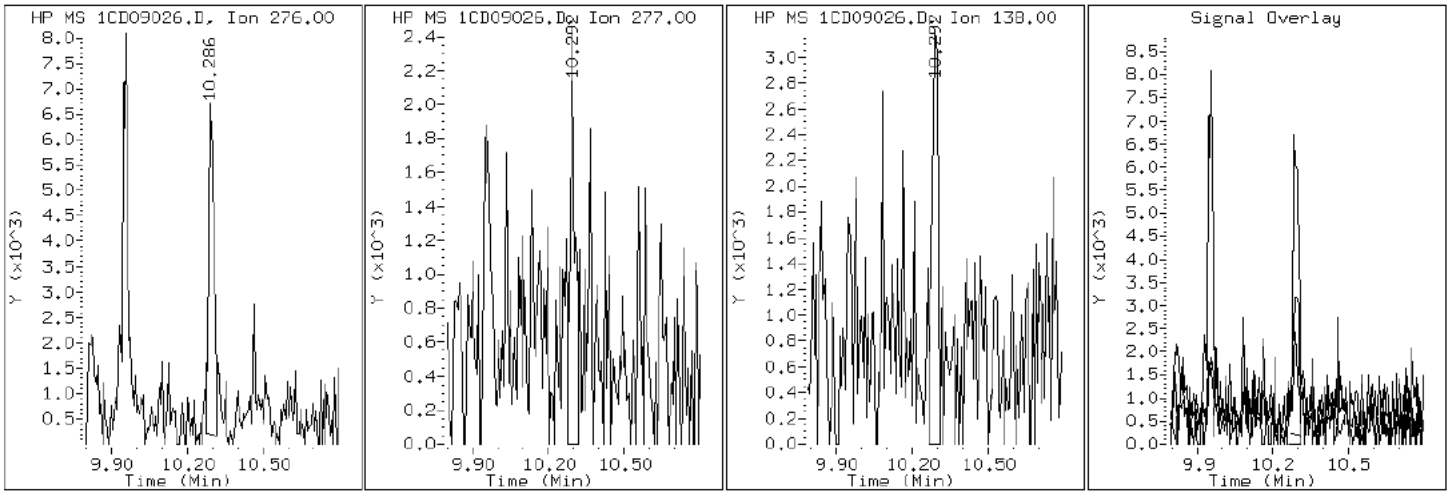
Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC

26 Benzo(g,h,i)perylene



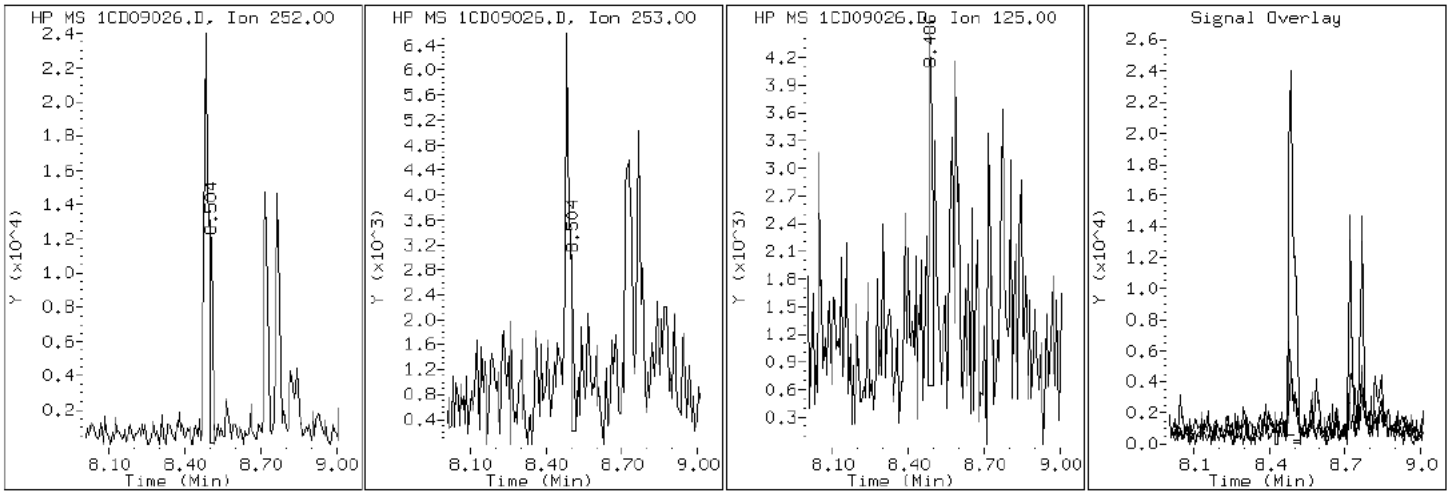
Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC

21 Benzo(k)fluoranthene



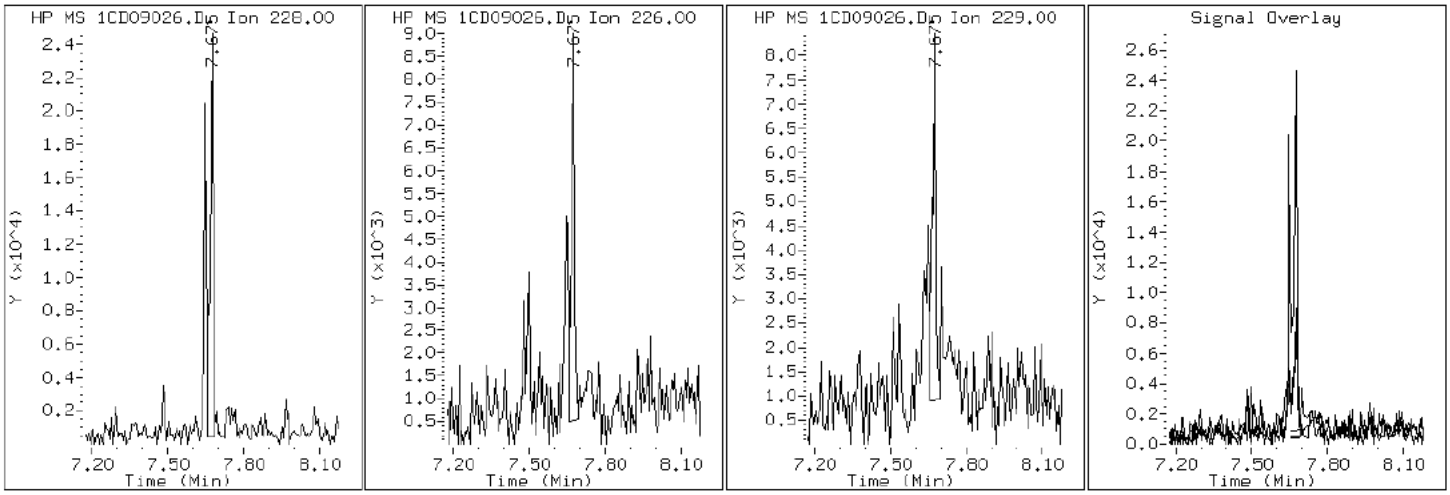
Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC

19 Chrysene



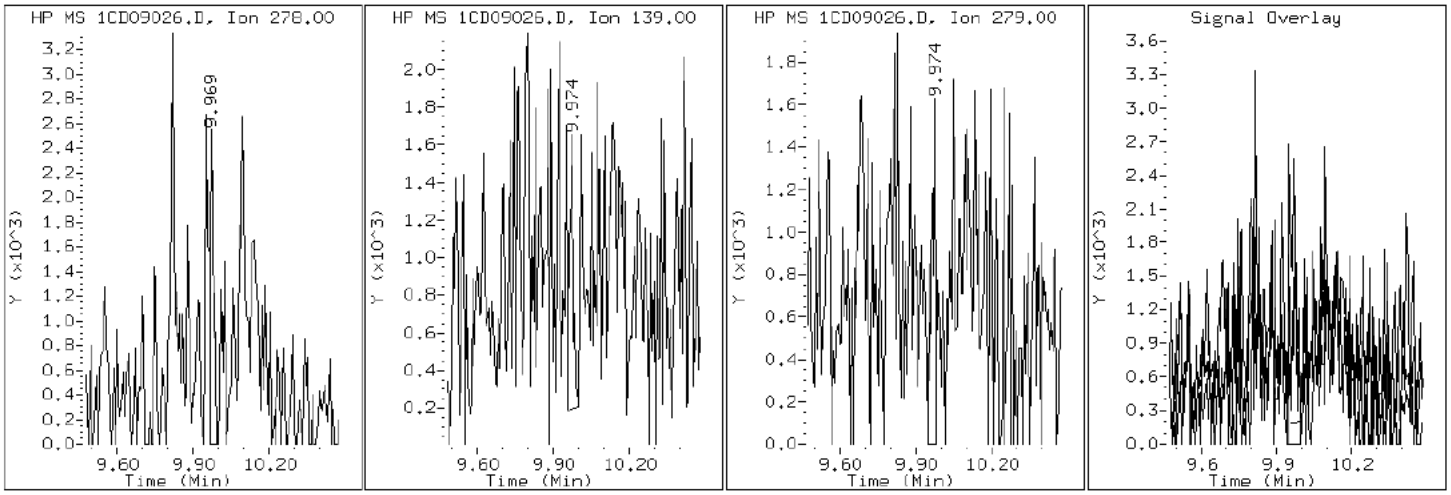
Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC

25 Dibenzo(a,h)anthracene



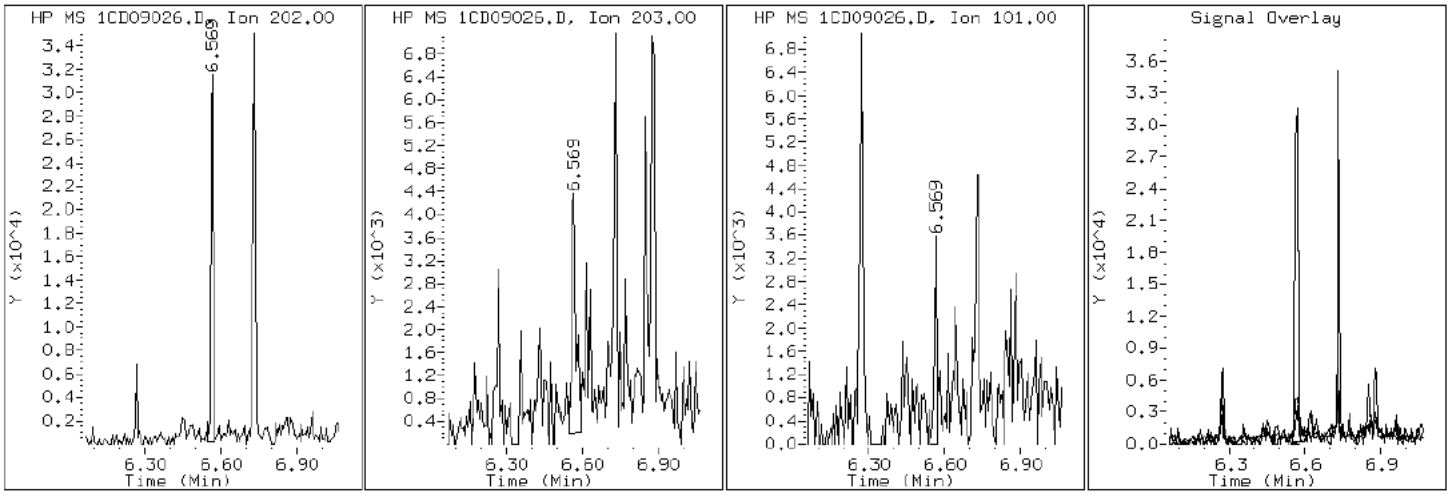
Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC

15 Fluoranthene



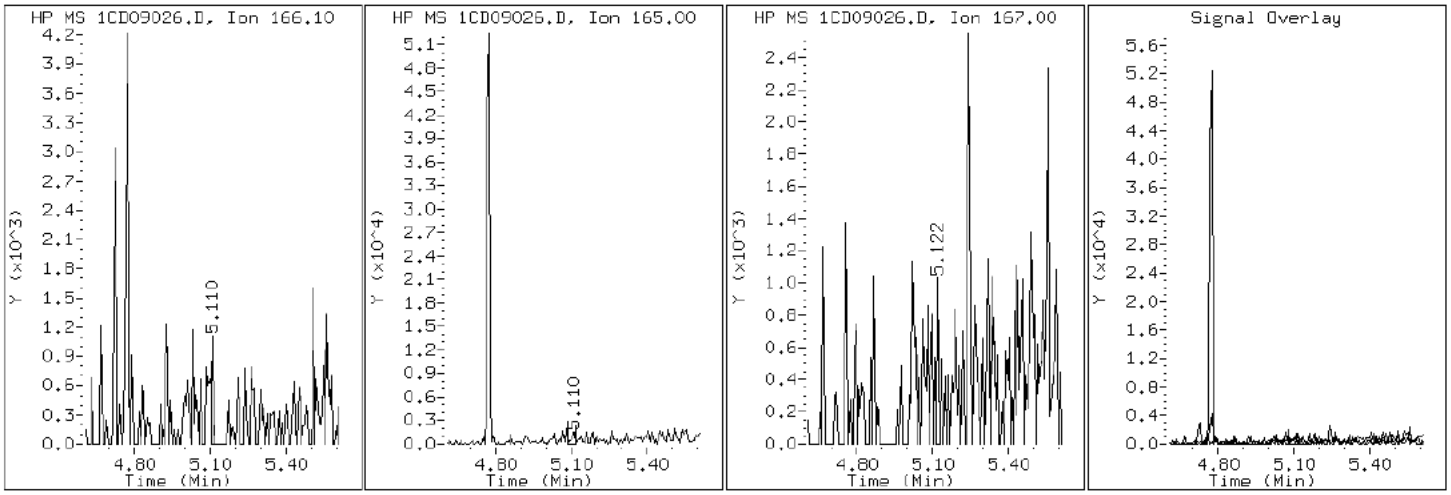
Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC

9 Fluorene



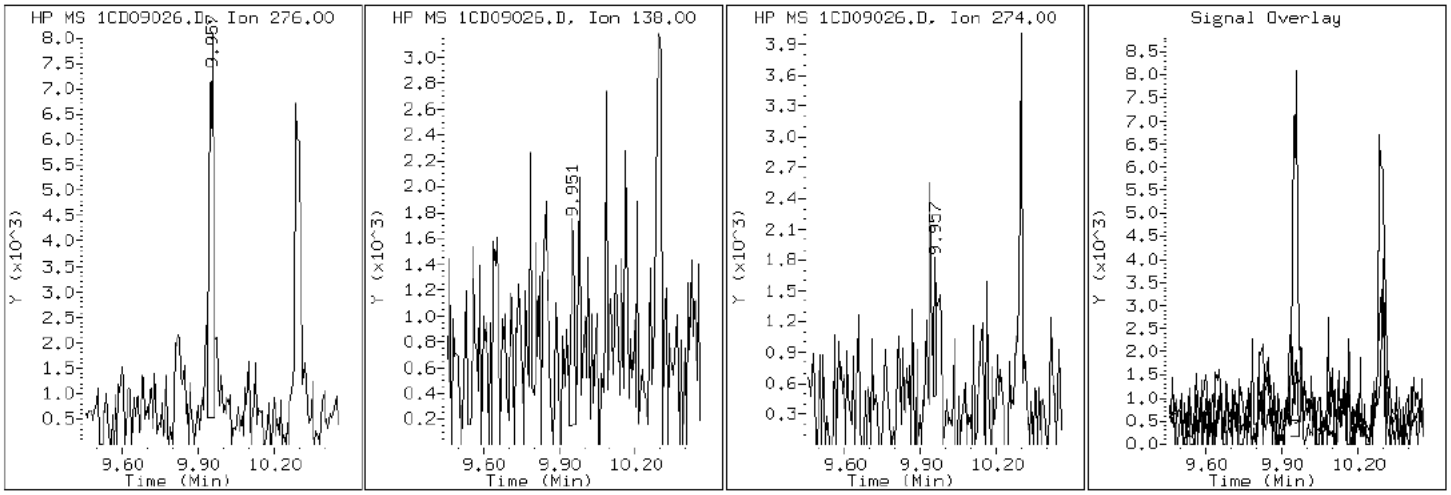
Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC

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



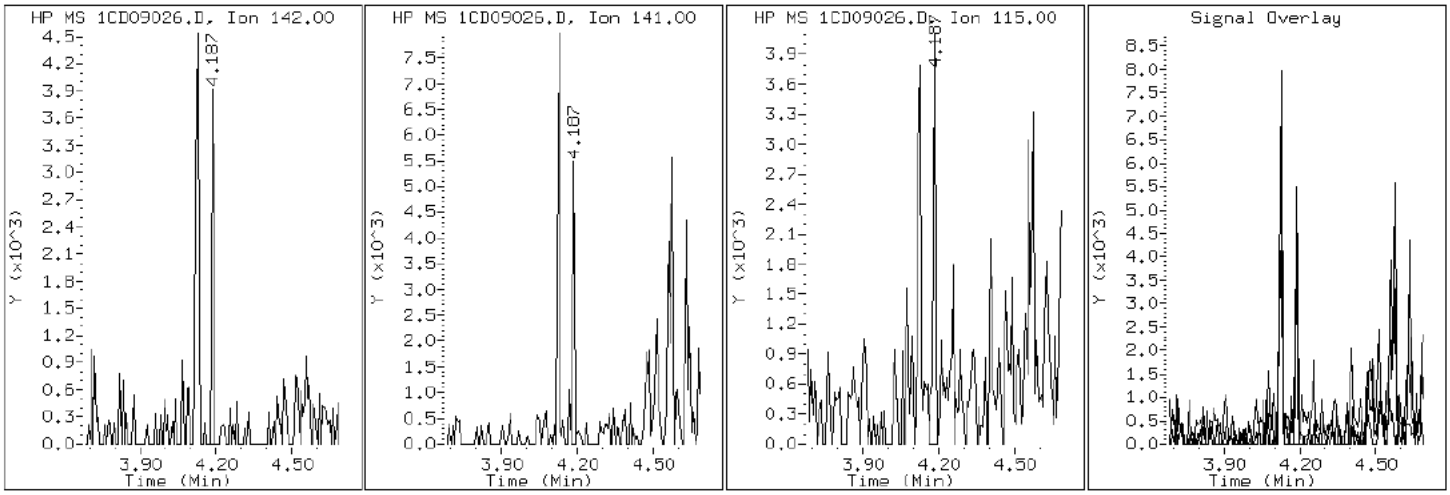
Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC

4 1-Methylnaphthalene



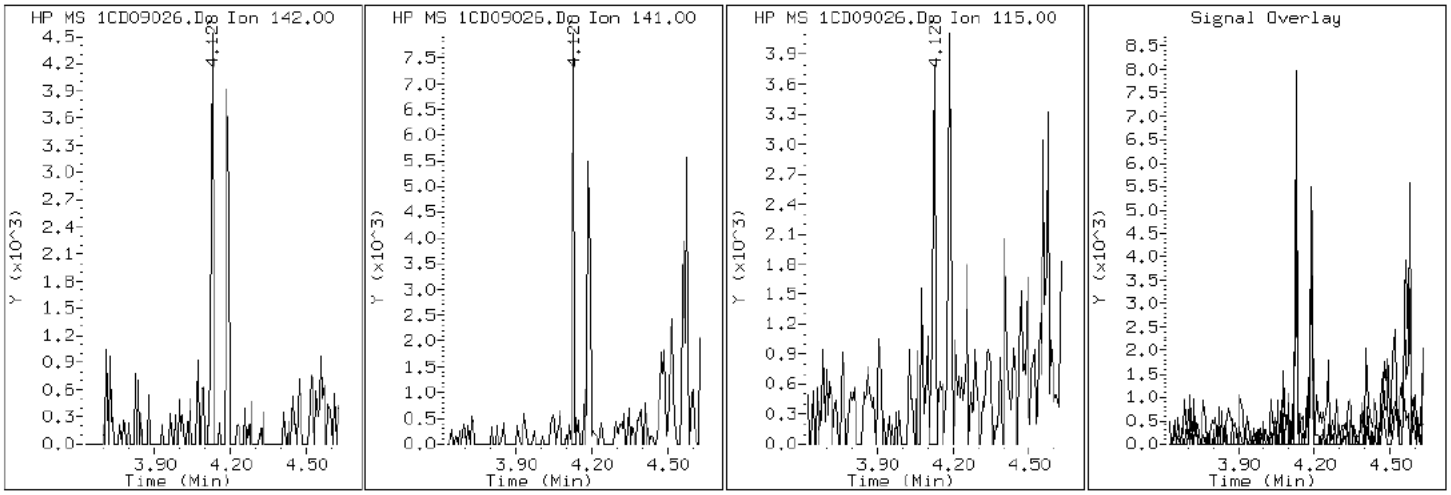
Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC

3 2-Methylnaphthalene



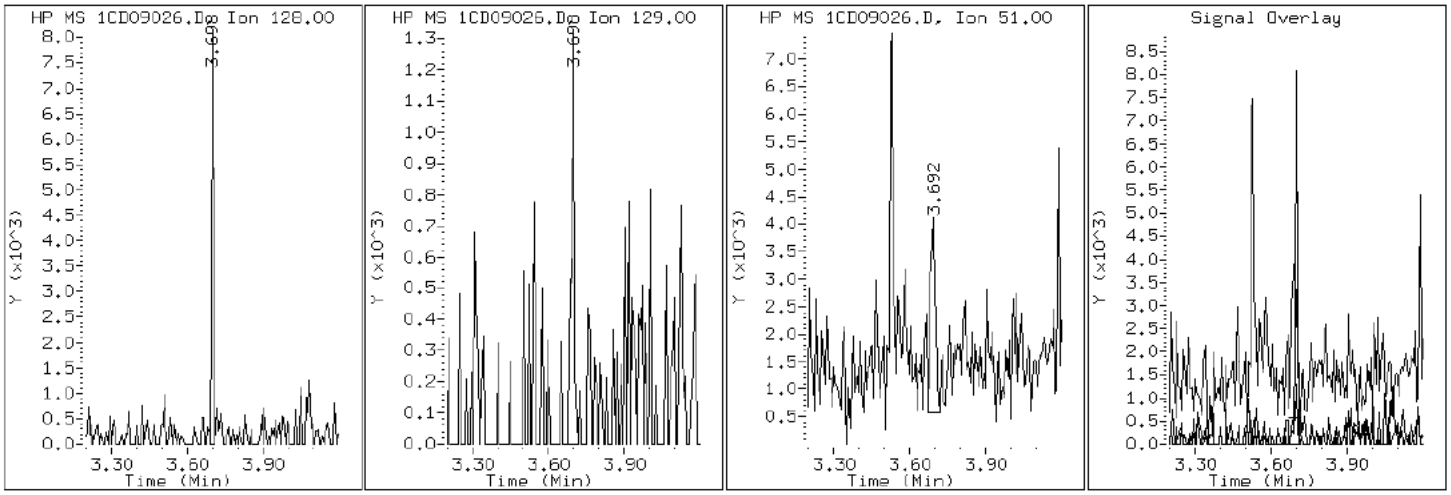
Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC

2 Naphthalene



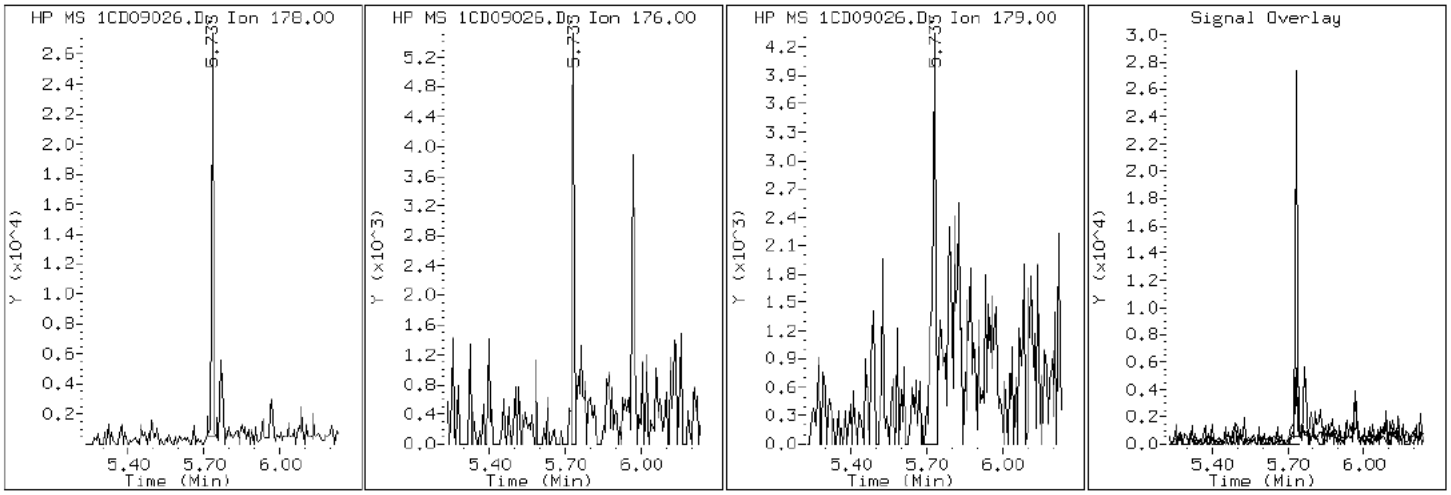
Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC

11 Phenanthrene



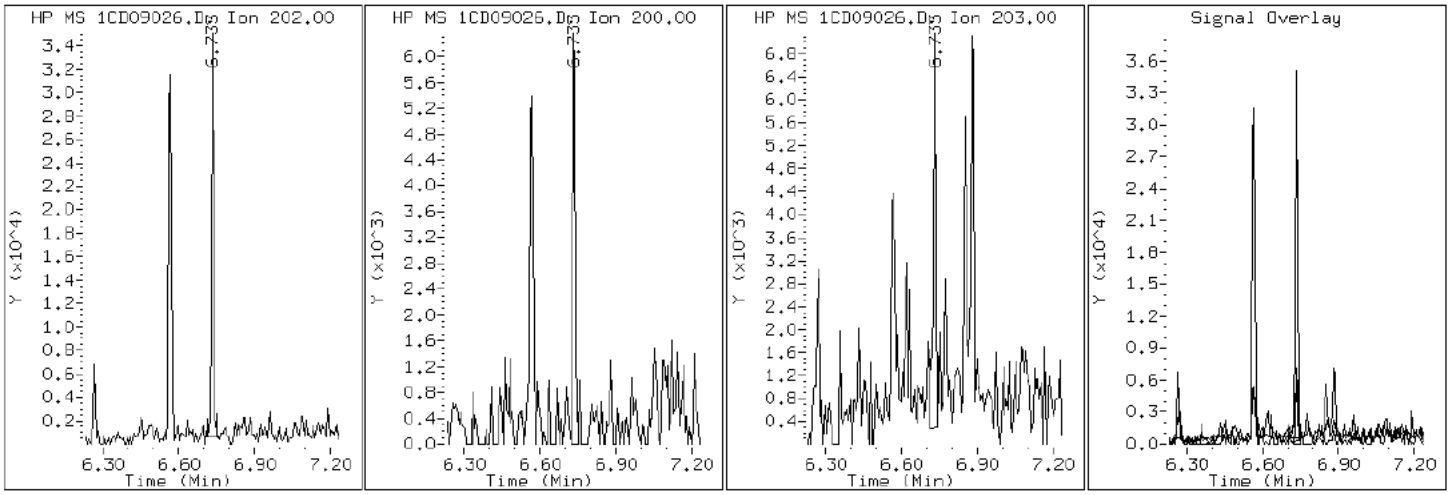
Data File: 1CD09026.D

Date: 09-APR-2013 18:53

Client ID: CV1120B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-50-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD09026.D
Inj. Date and Time: 09-APR-2013 18:53
Instrument ID: BSMC5973.i
Client ID: CV1120B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

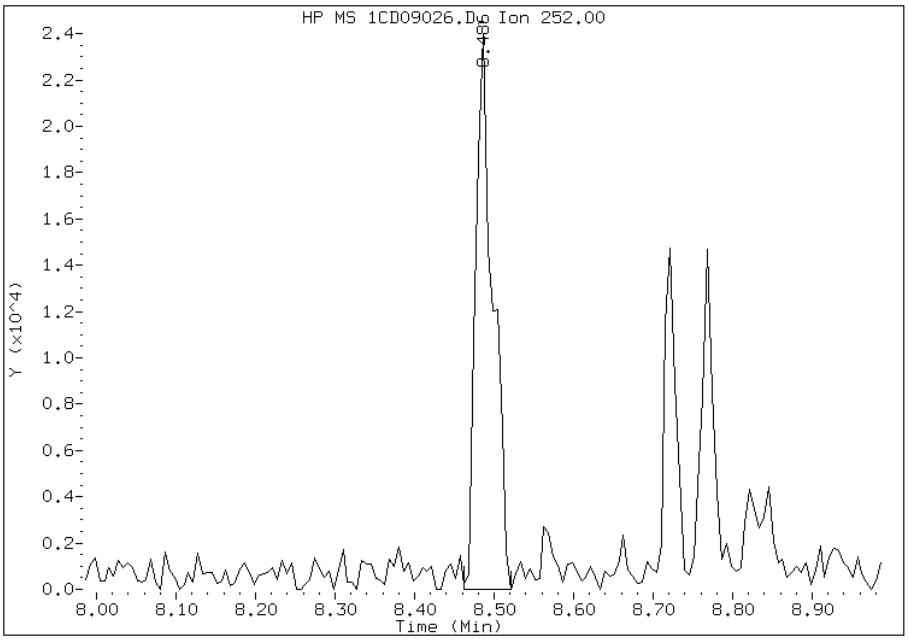
Processing Integration Results

RT: 8.49

Response: 35931

Amount: 2

Conc: 180



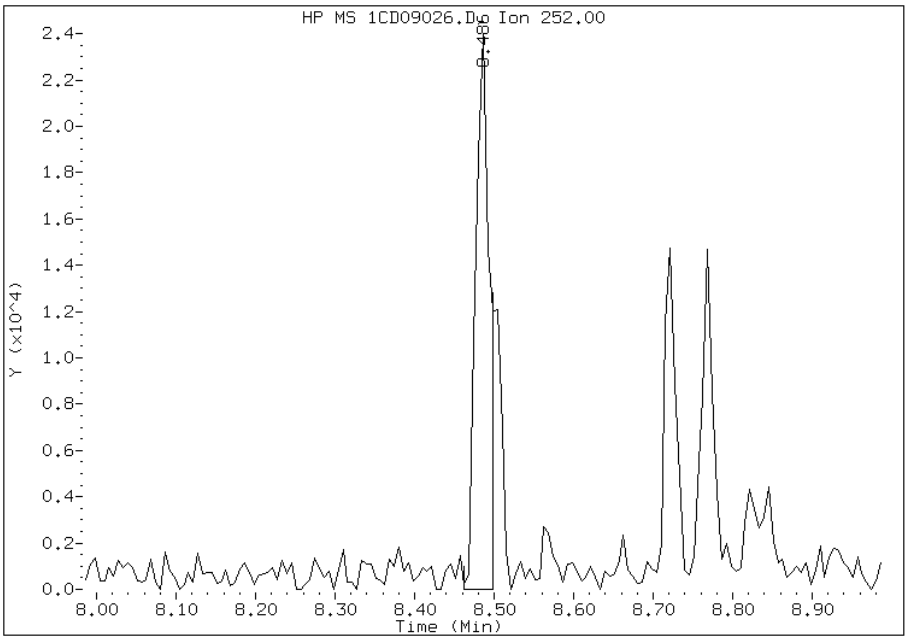
Manual Integration Results

RT: 8.49

Response: 28613

Amount: 2

Conc: 143



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:53
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09026.D
Inj. Date and Time: 09-APR-2013 18:53
Instrument ID: BSMC5973.i
Client ID: CV1120B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

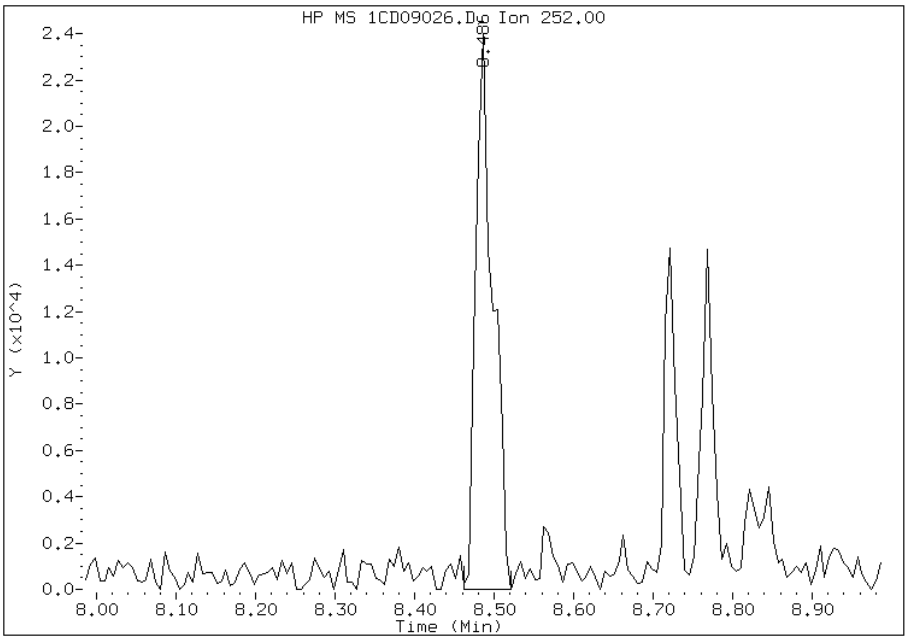
Processing Integration Results

RT: 8.49

Response: 35931

Amount: 2

Conc: 186



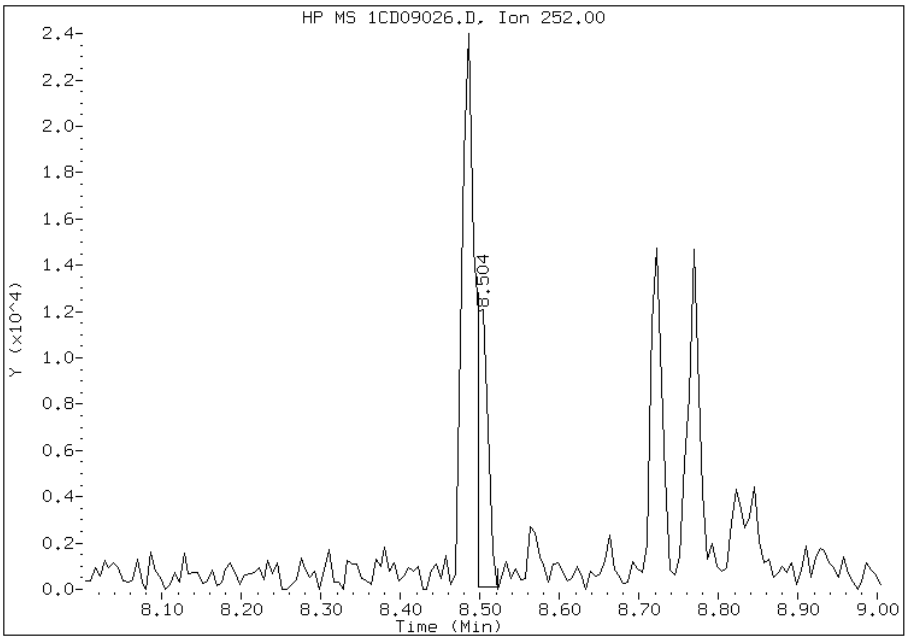
Manual Integration Results

RT: 8.50

Response: 11381

Amount: 1

Conc: 59



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:54
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09026.D
Inj. Date and Time: 09-APR-2013 18:53
Instrument ID: BSMC5973.i
Client ID: CV1120B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

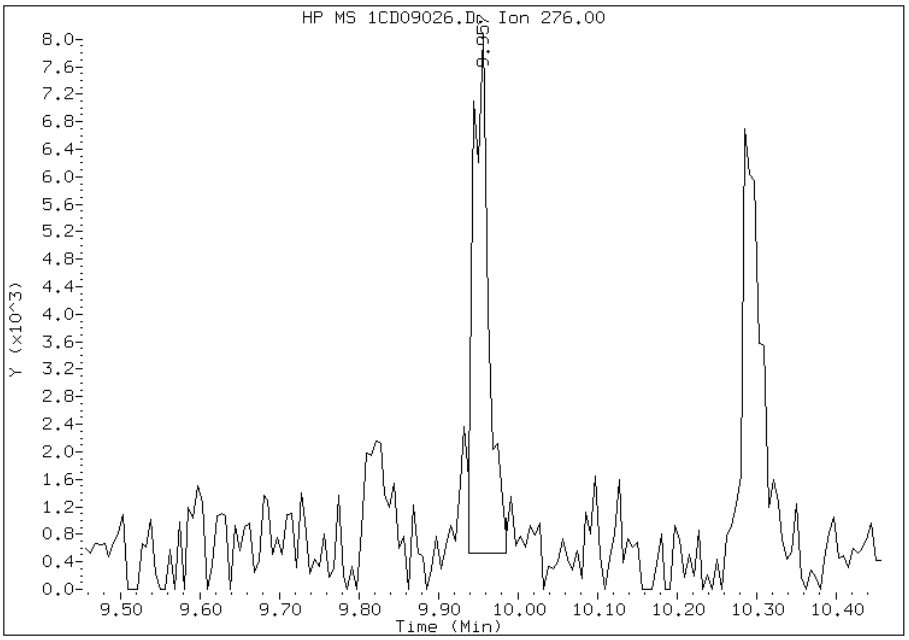
Processing Integration Results

RT: 9.96

Response: 10065

Amount: 1

Conc: 56



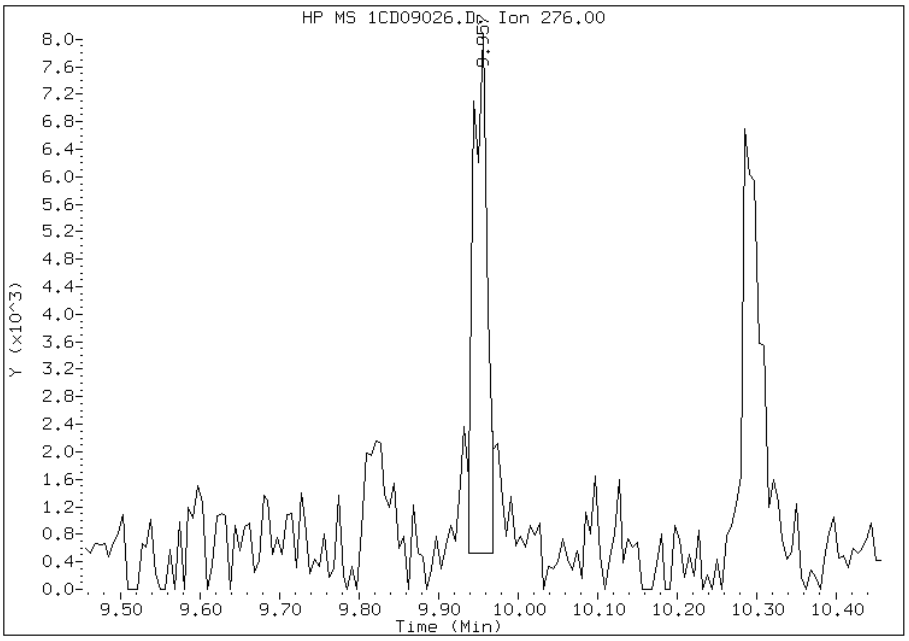
Manual Integration Results

RT: 9.96

Response: 9146

Amount: 1

Conc: 51



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:54
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1121A-CS | Lab Sample ID: 680-88811-51

Matrix: Solid | Lab File ID: 1CD09027.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 08:45

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.38(g) | Date Analyzed: 04/09/2013 19:11

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

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

% Moisture: 18.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	23	J	48	6.0
120-12-7	Anthracene	41		10	5.0
56-55-3	Benzo[a]anthracene	160		9.6	4.7
50-32-8	Benzo[a]pyrene	130		12	6.2
205-99-2	Benzo[b]fluoranthene	270		15	7.3
191-24-2	Benzo[g,h,i]perylene	88		24	5.3
207-08-9	Benzo[k]fluoranthene	76		9.6	4.3
218-01-9	Chrysene	220		11	5.4
53-70-3	Dibenz(a,h)anthracene	28		24	4.9
206-44-0	Fluoranthene	260		24	4.8
86-73-7	Fluorene	13	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	99		24	8.5
90-12-0	1-Methylnaphthalene	100		48	5.3
91-57-6	2-Methylnaphthalene	180		48	8.5
91-20-3	Naphthalene	140		48	5.3
85-01-8	Phenanthrene	250		9.6	4.7
129-00-0	Pyrene	250		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	55		30-130

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09027.D
Lab Smp Id: 680-88811-A-51-A Client Smp ID: CV1121A-CS
Inj Date : 09-APR-2013 19:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-51-a
Misc Info : 680-88811-A-51-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.380	Weight Extracted
M	18.575	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.686	3.686	(1.000)	375792	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	288775	40.0000	
*	10 Phenanthrene-d10	188	5.715	5.716	(1.000)	545193	40.0000	
$	14 o-Terphenyl	230	5.968	5.968	(1.044)	42566	5.50869	439.8773
*	18 Chrysene-d12	240	7.656	7.657	(1.000)	563394	40.0000	
*	23 Perylene-d12	264	8.821	8.827	(1.000)	535061	40.0000	
	2 Naphthalene	128	3.698	3.698	(1.003)	16339	1.69279	135.1715
	3 2-Methylnaphthalene	142	4.121	4.127	(1.118)	14744	2.24402	179.1880
	4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	7503	1.26910	101.3398
	5 Acenaphthylene	152	4.686	4.686	(0.982)	3369	0.28188	22.5089
	7 Acenaphthene	154	4.792	4.792	(1.004)	1826	0.24667	19.6972(a)
	9 Fluorene	166	5.115	5.110	(1.071)	1651	0.16730	13.3594(Q)
	11 Phenanthrene	178	5.733	5.733	(1.003)	48910	3.08026	245.9631
	12 Anthracene	178	5.768	5.768	(1.009)	8341	0.51820	41.3788

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.874	5.874	(1.028)	8309	0.60252	48.1124
15 Fluoranthene	202	6.568	6.568	(1.149)	56370	3.21455	256.6871
16 Pyrene	202	6.733	6.733	(0.879)	48523	3.10916	248.2715
17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	30612	2.01087	160.5710
19 Chrysene	228	7.674	7.674	(1.002)	44063	2.74463	219.1628
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	51001	3.37160	269.2277(M)
21 Benzo(k)fluoranthene	252	8.503	8.509	(0.964)	14003	0.95713	76.4284(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	22677	1.59233	127.1502
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.129)	16783	1.24074	99.0750
25 Dibenzo(a,h)anthracene	278	9.968	9.974	(1.130)	4366	0.34941	27.9008
26 Benzo(g,h,i)perylene	276	10.303	10.298	(1.168)	15157	1.09790	87.6686(MH)

QC Flag Legend

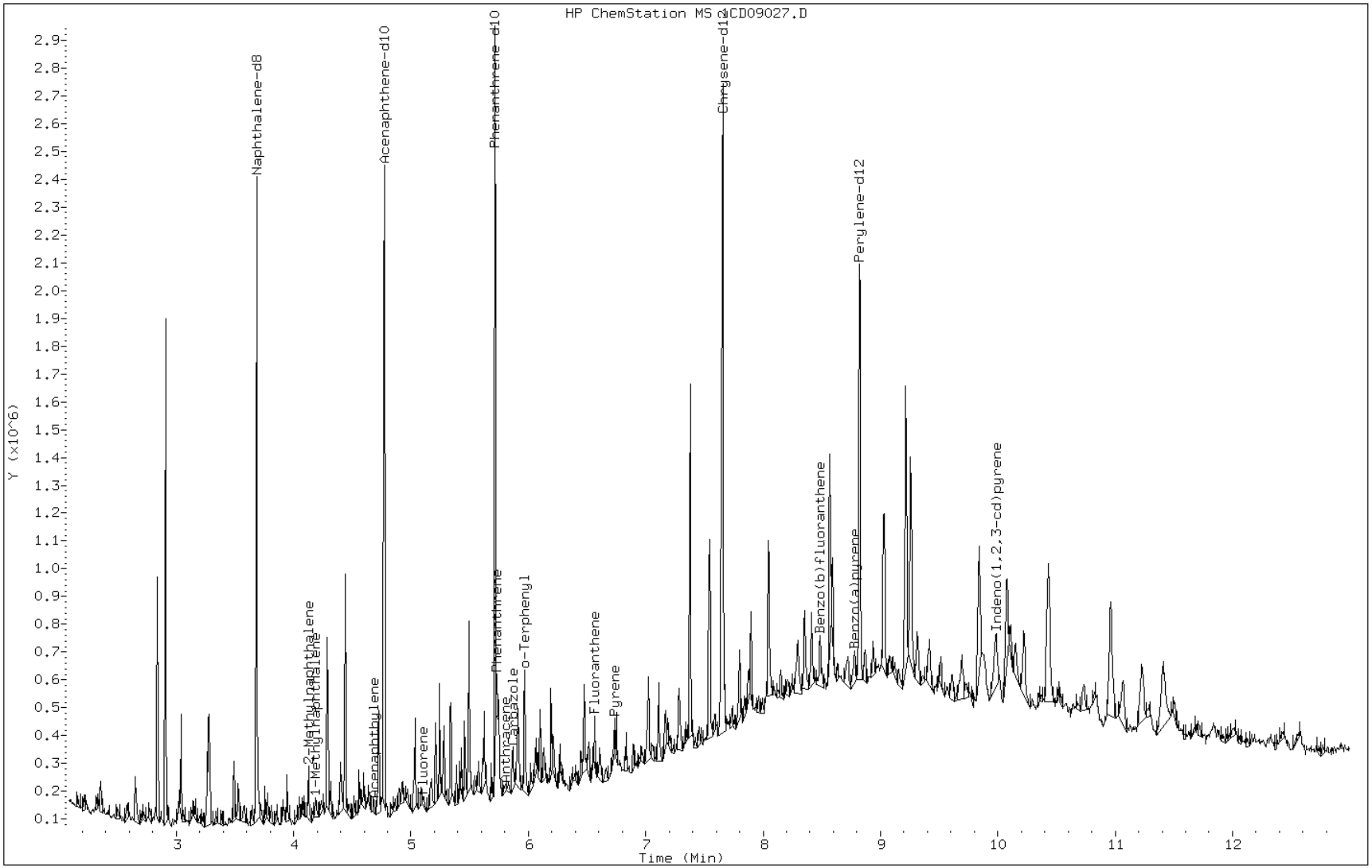
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC



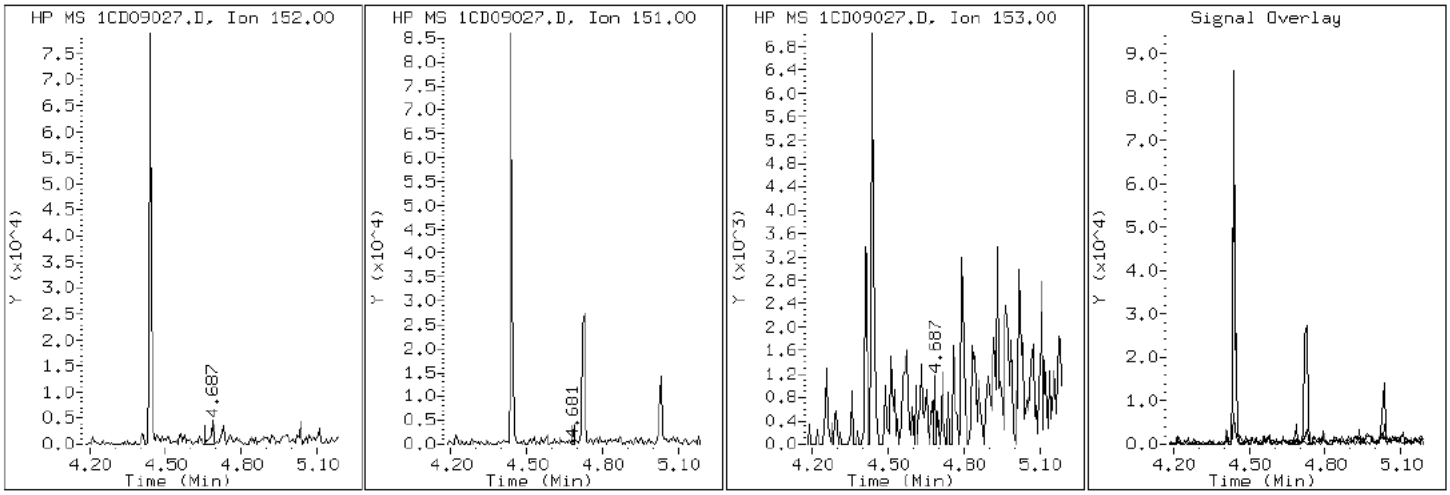
Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC

5 Acenaphthylene



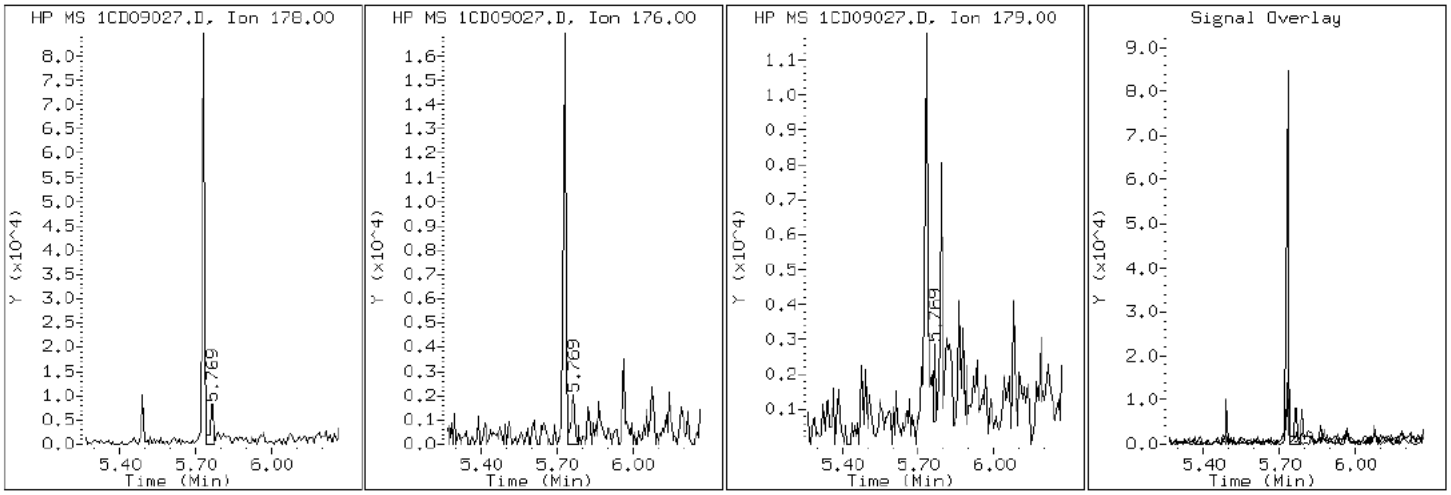
Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC

12 Anthracene



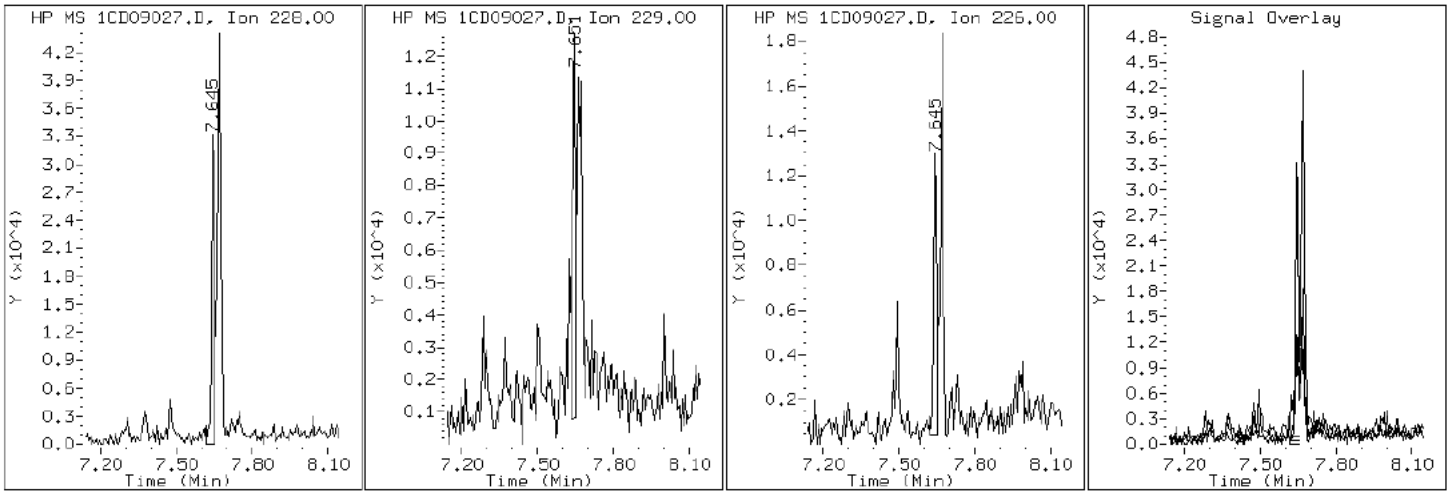
Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC

17 Benzo(a)anthracene



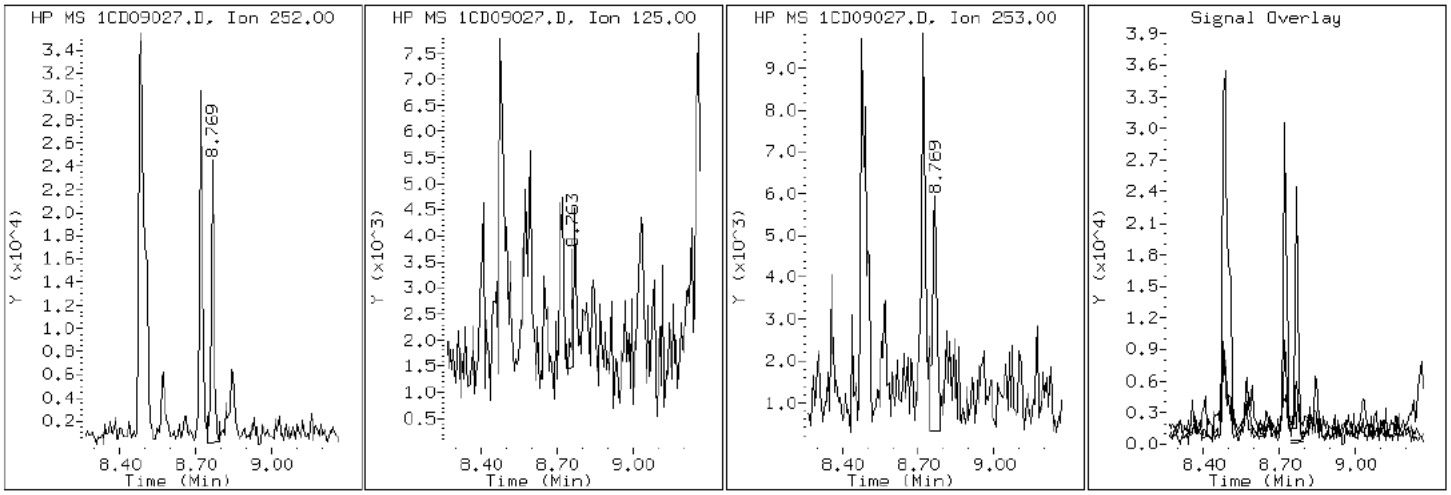
Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC

22 Benzo(a)pyrene



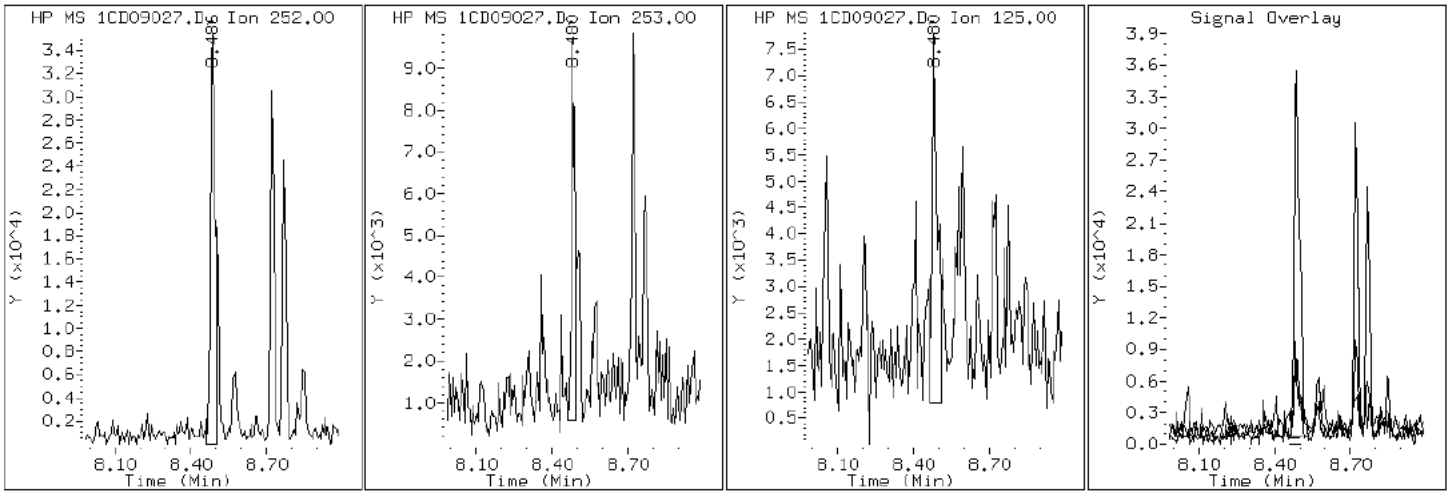
Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC

20 Benzo(b)fluoranthene



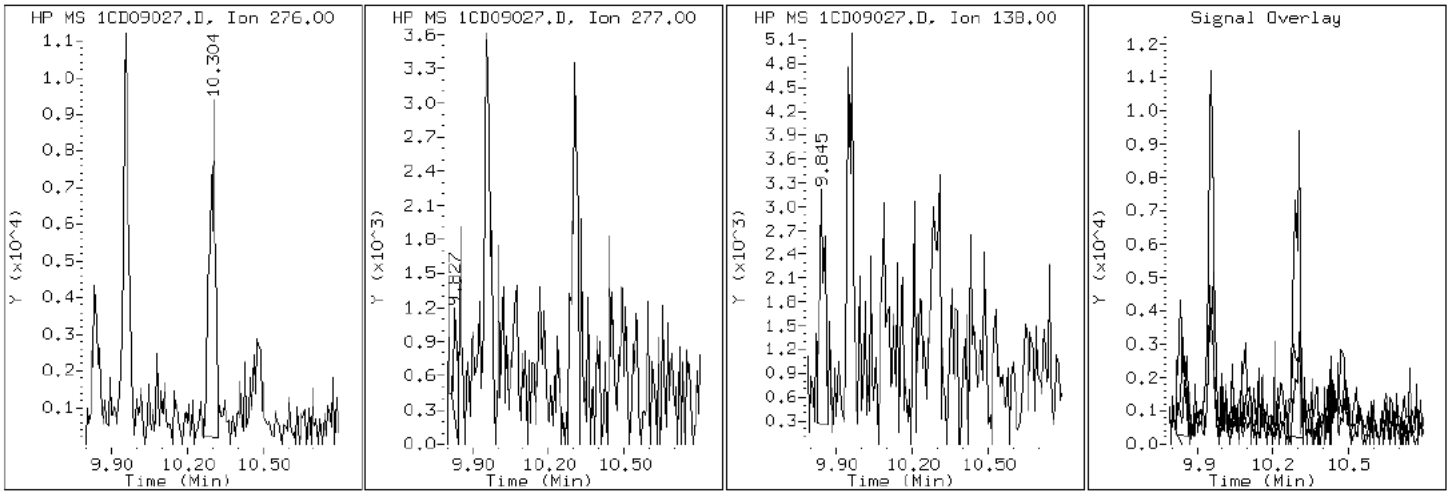
Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC

26 Benzo(g,h,i)perylene



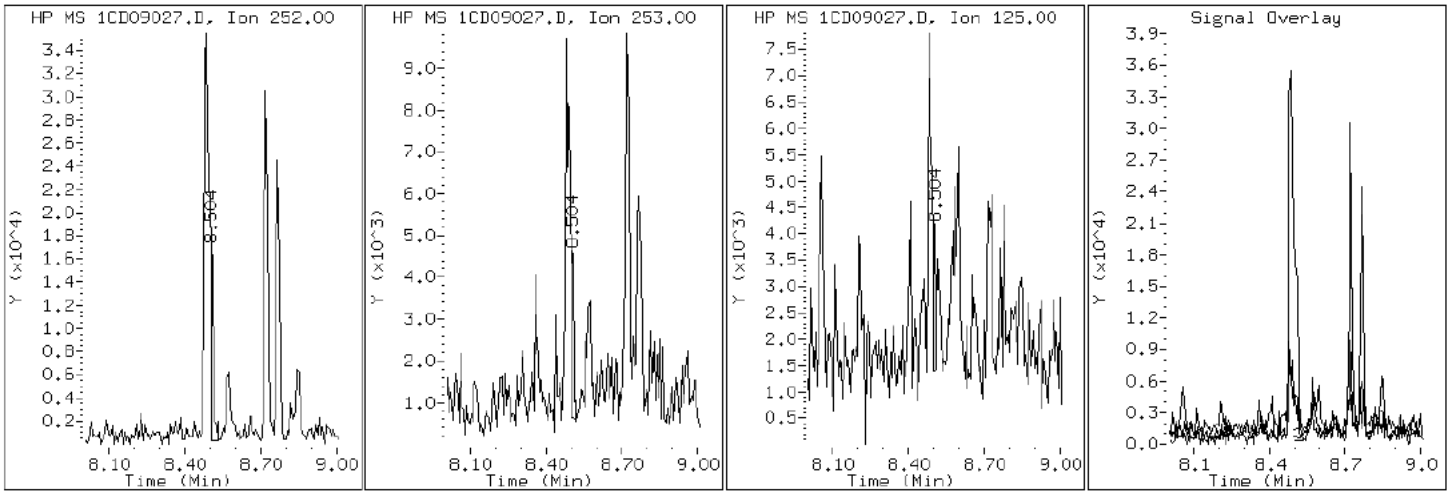
Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC

21 Benzo(k)fluoranthene



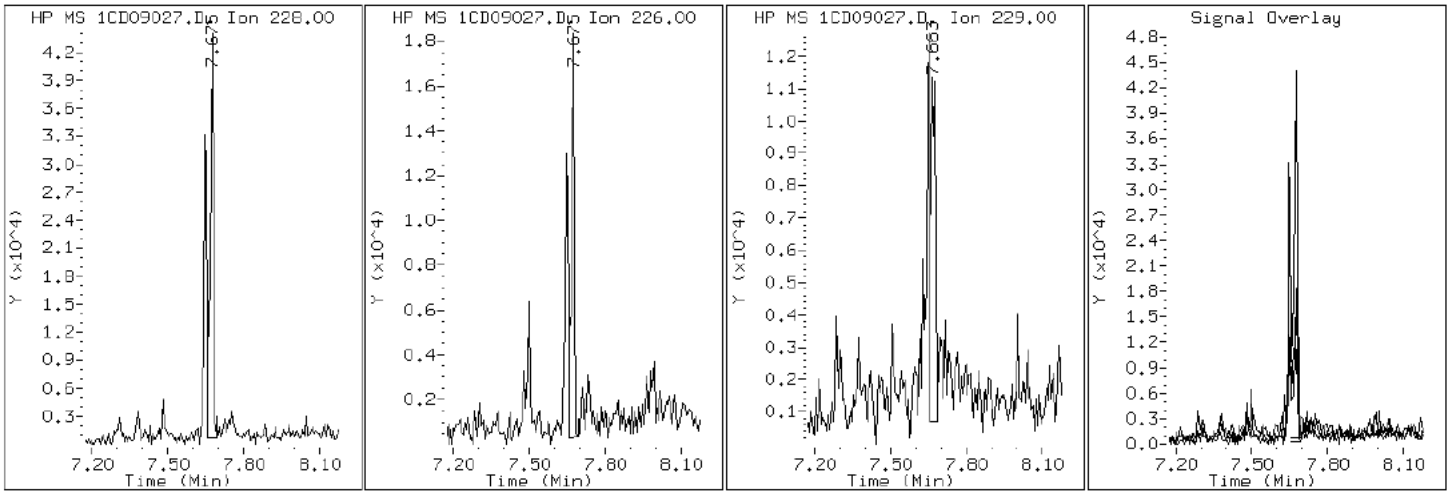
Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC

19 Chrysene



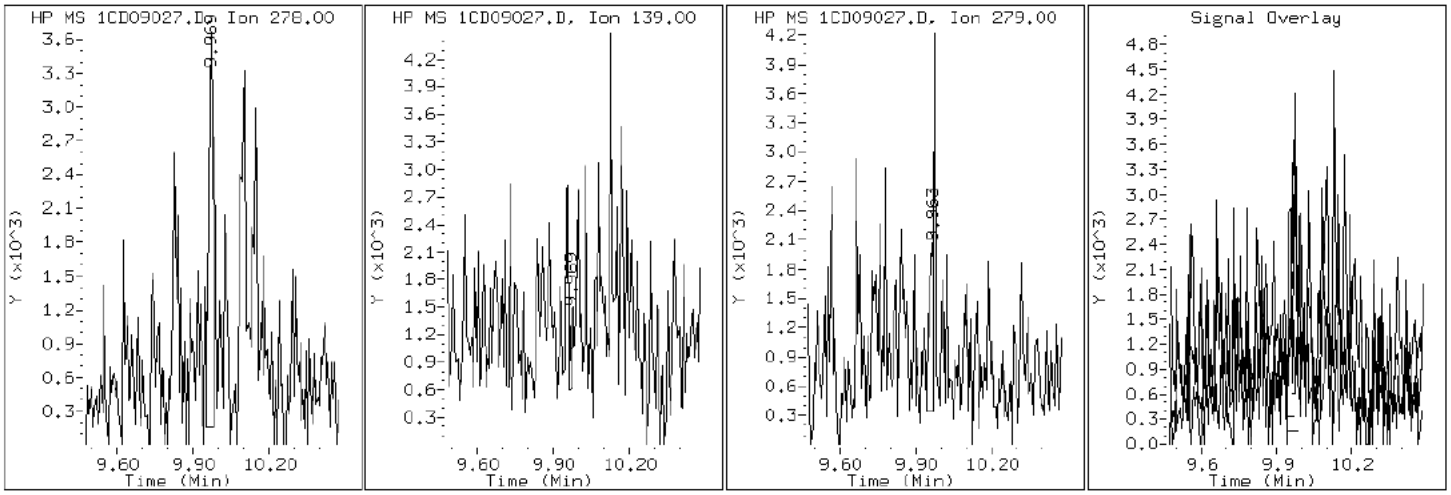
Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC

25 Dibenzo(a,h)anthracene



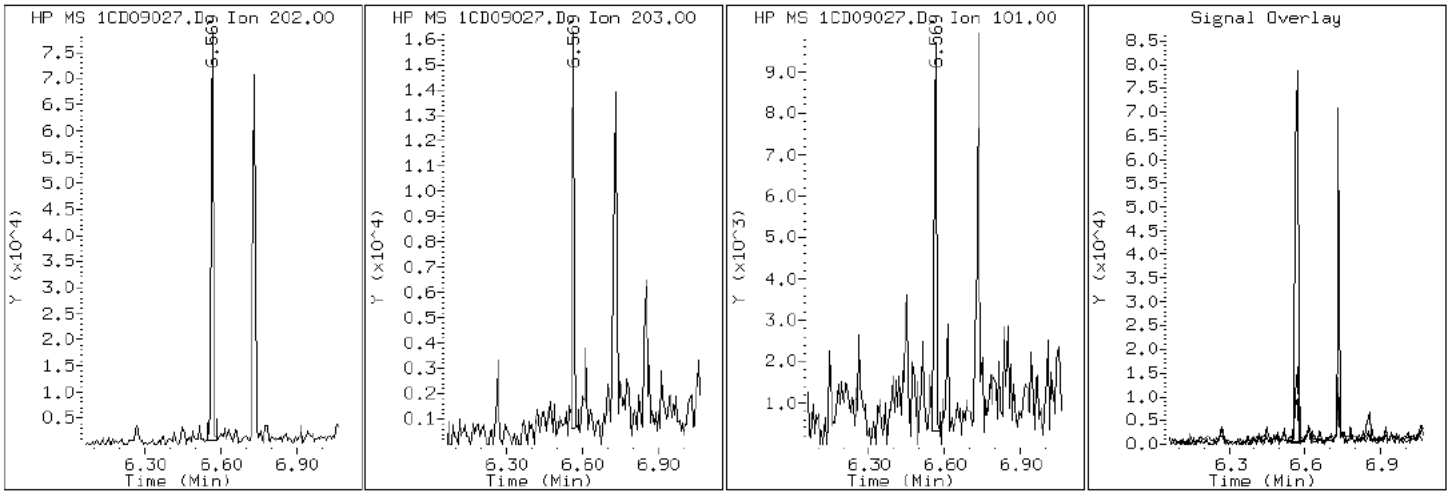
Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC

15 Fluoranthene



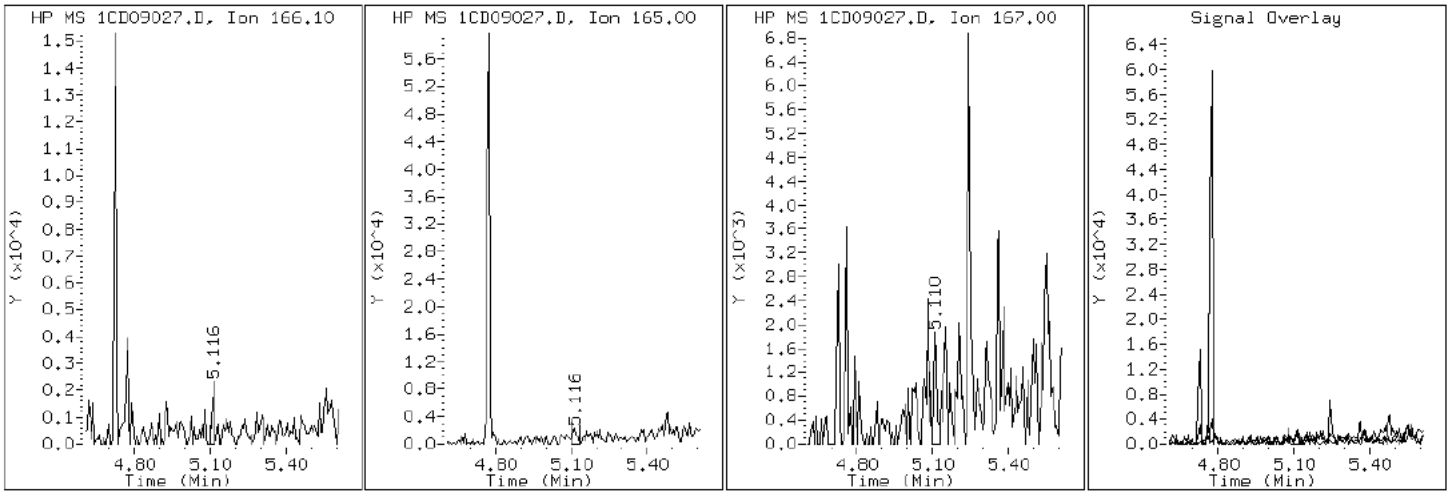
Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC

9 Fluorene



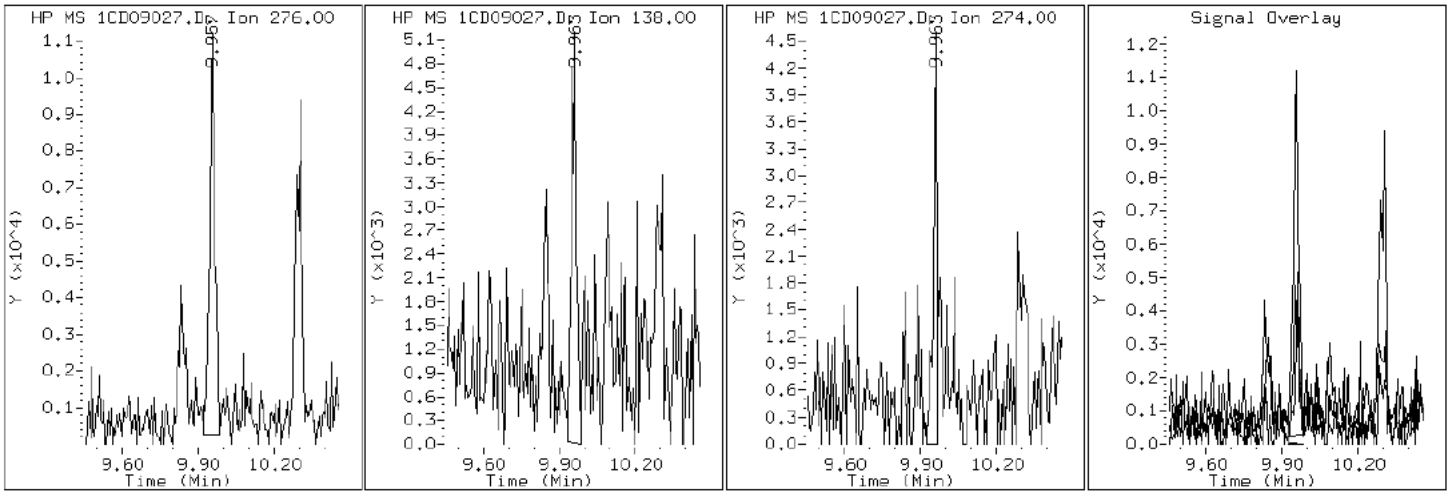
Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC

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



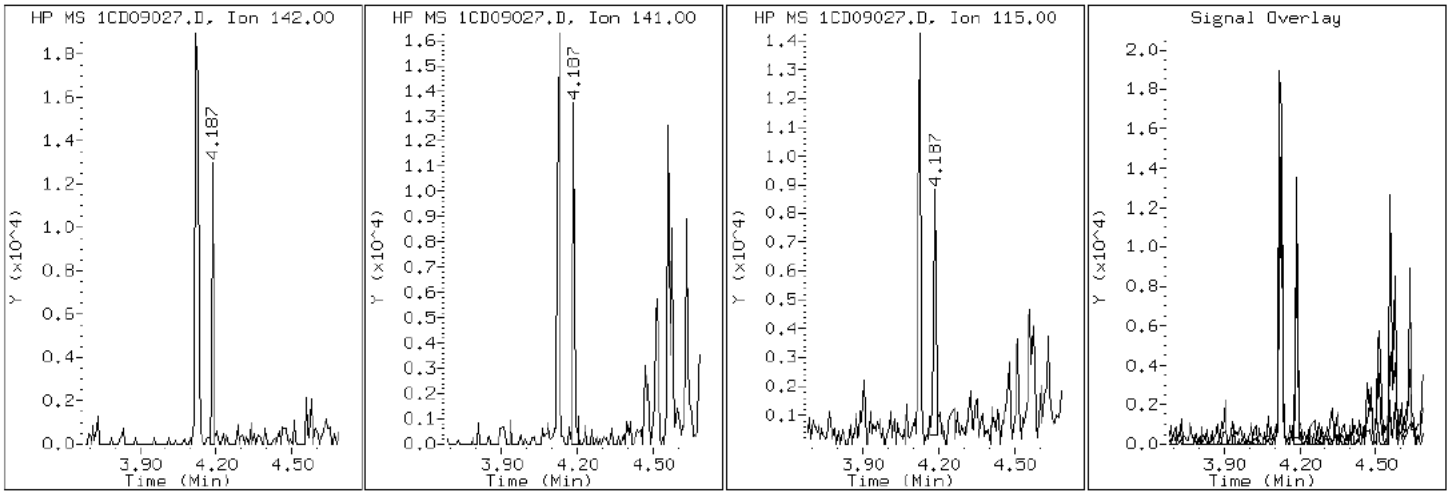
Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC

4 1-Methylnaphthalene



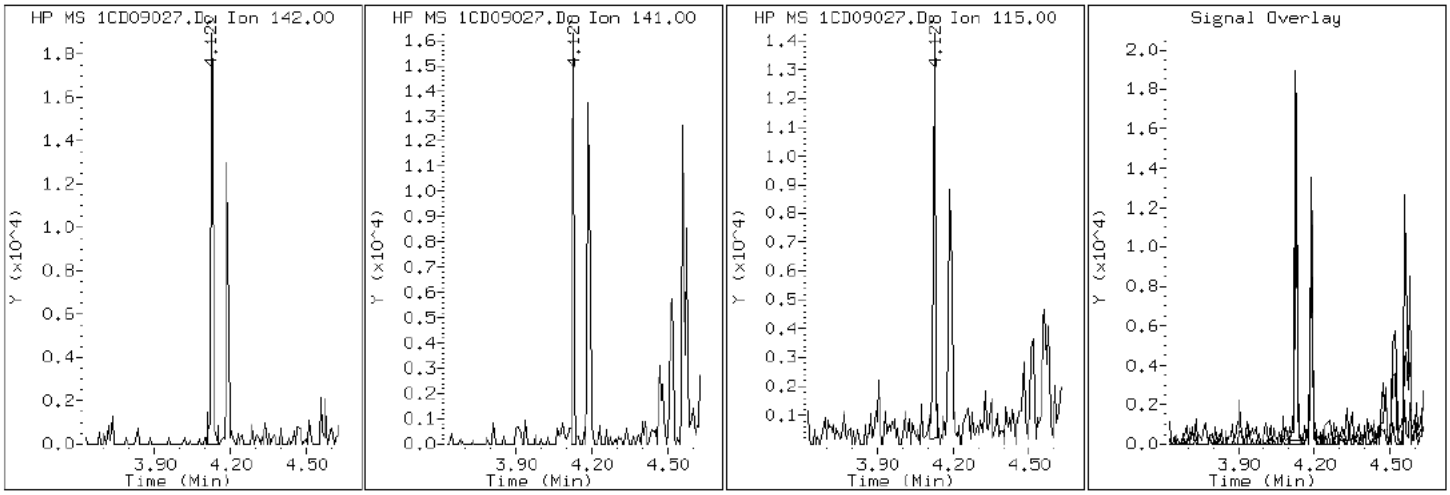
Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC

3 2-Methylnaphthalene



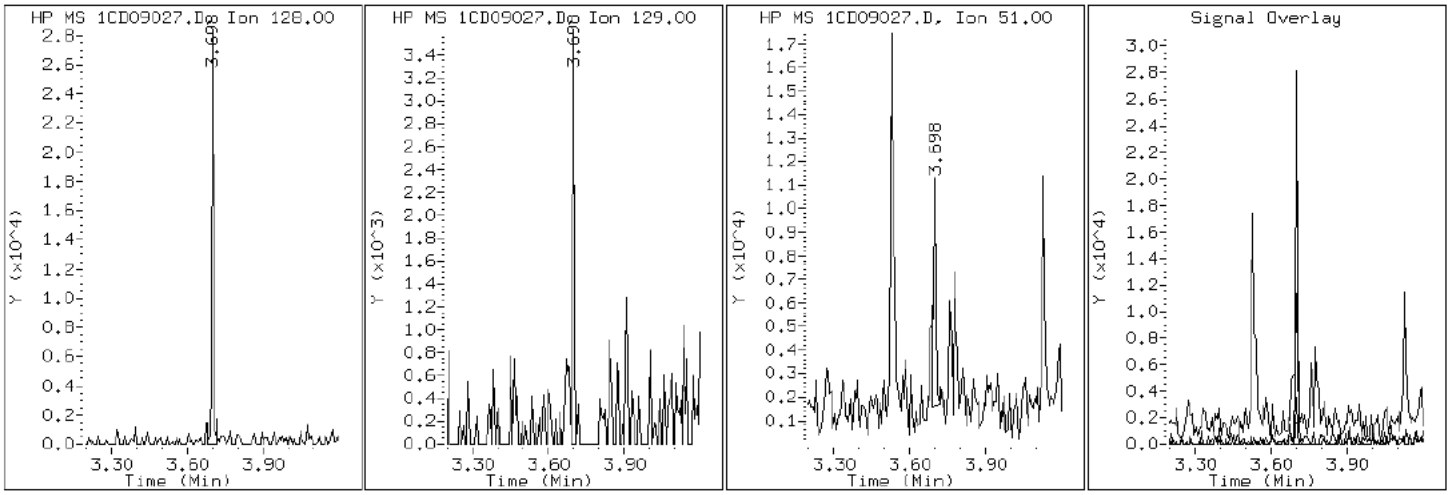
Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC

2 Naphthalene



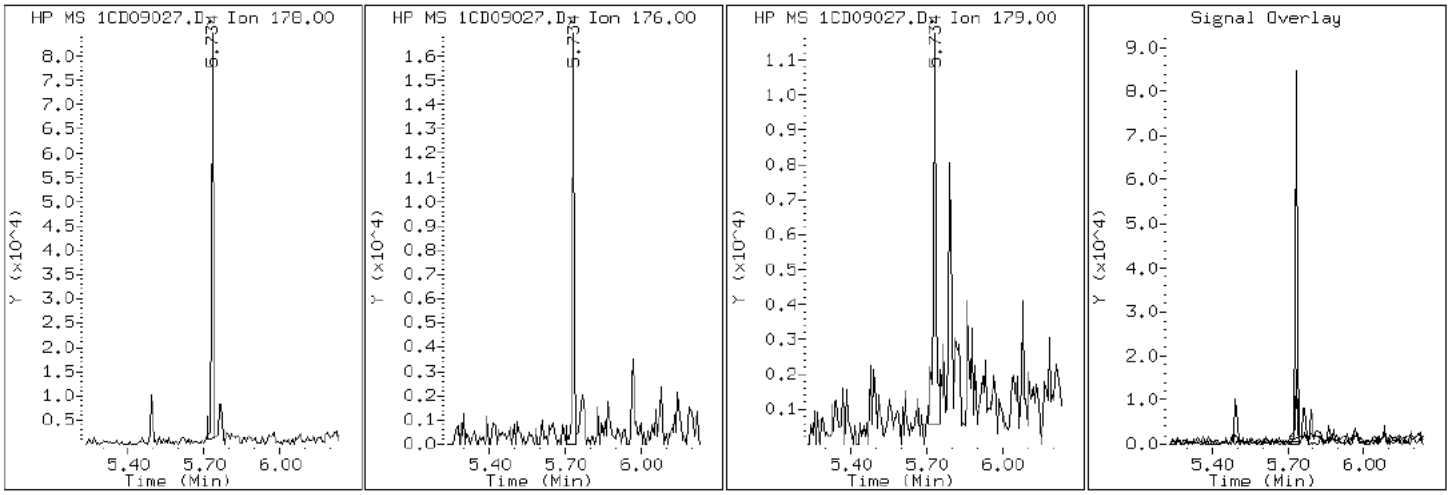
Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC

11 Phenanthrene



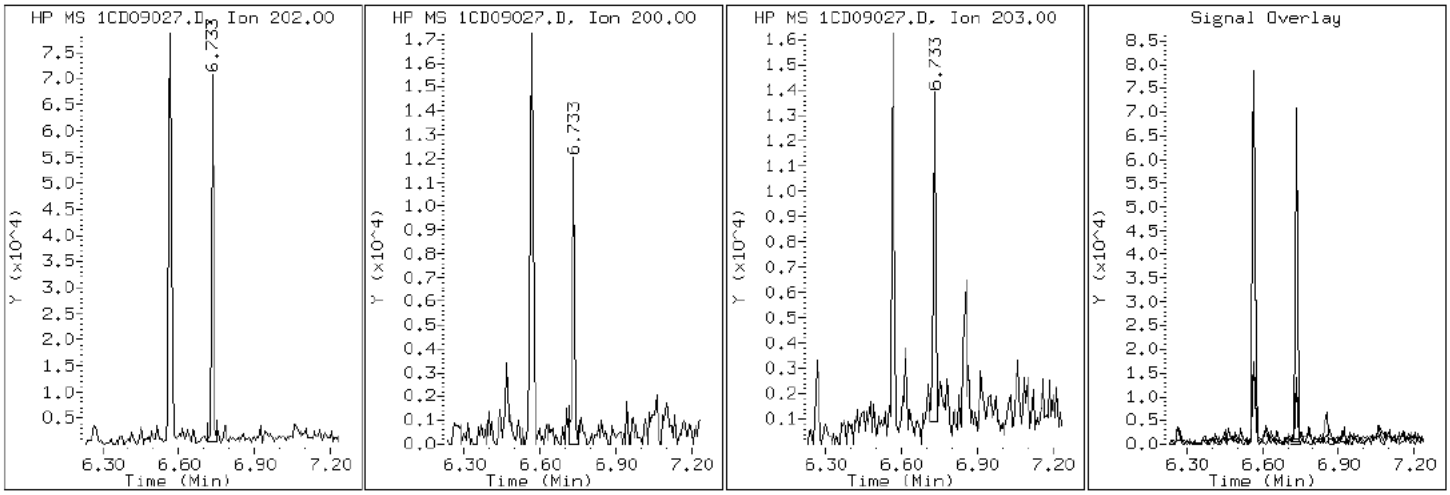
Data File: 1CD09027.D

Date: 09-APR-2013 19:11

Client ID: CV1121A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-51-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD09027.D
Inj. Date and Time: 09-APR-2013 19:11
Instrument ID: BSMC5973.i
Client ID: CV1121A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

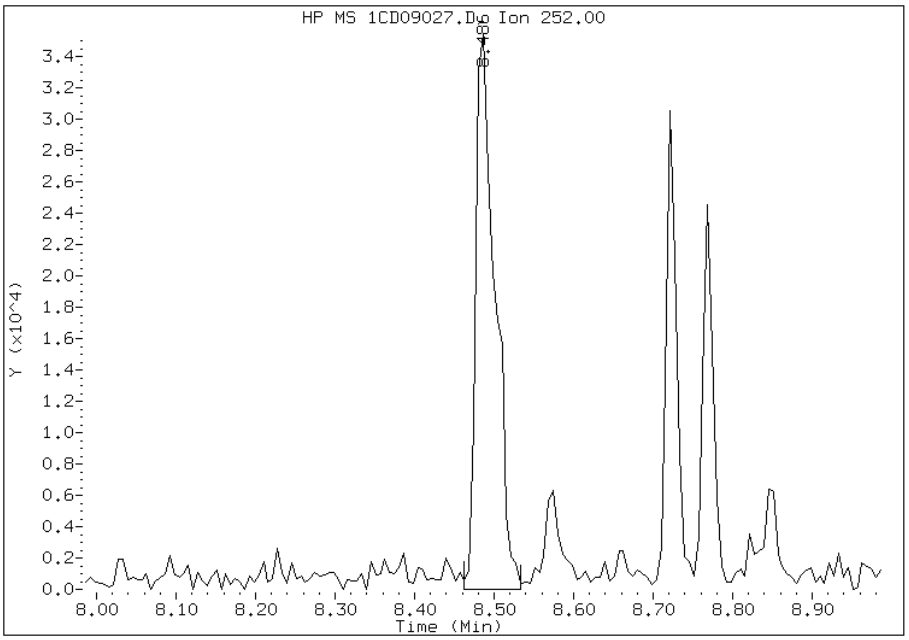
Processing Integration Results

RT: 8.49

Response: 59658

Amount: 4

Conc: 315



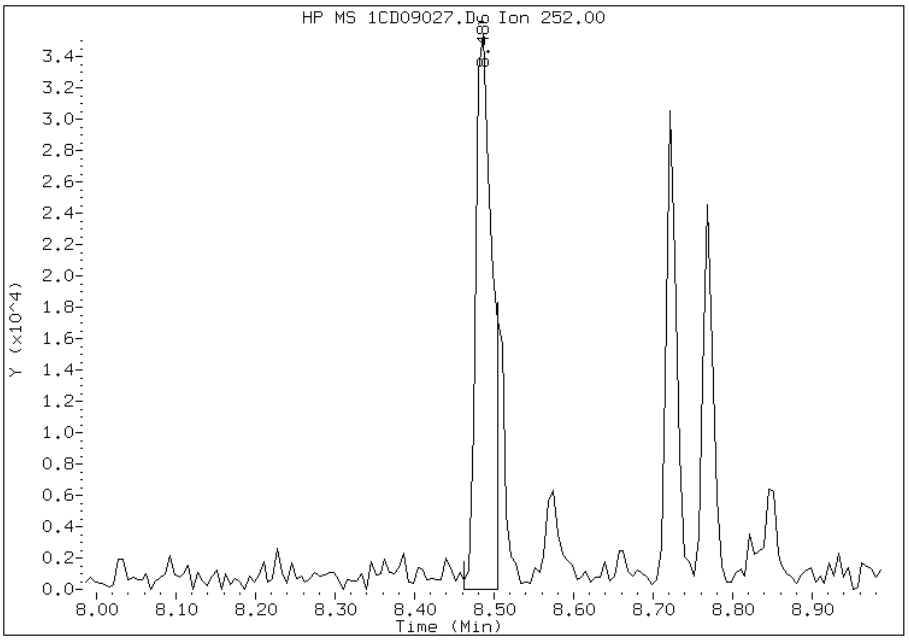
Manual Integration Results

RT: 8.49

Response: 51001

Amount: 3

Conc: 269



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:52
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09027.D
Inj. Date and Time: 09-APR-2013 19:11
Instrument ID: BSMC5973.i
Client ID: CV1121A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/10/2013

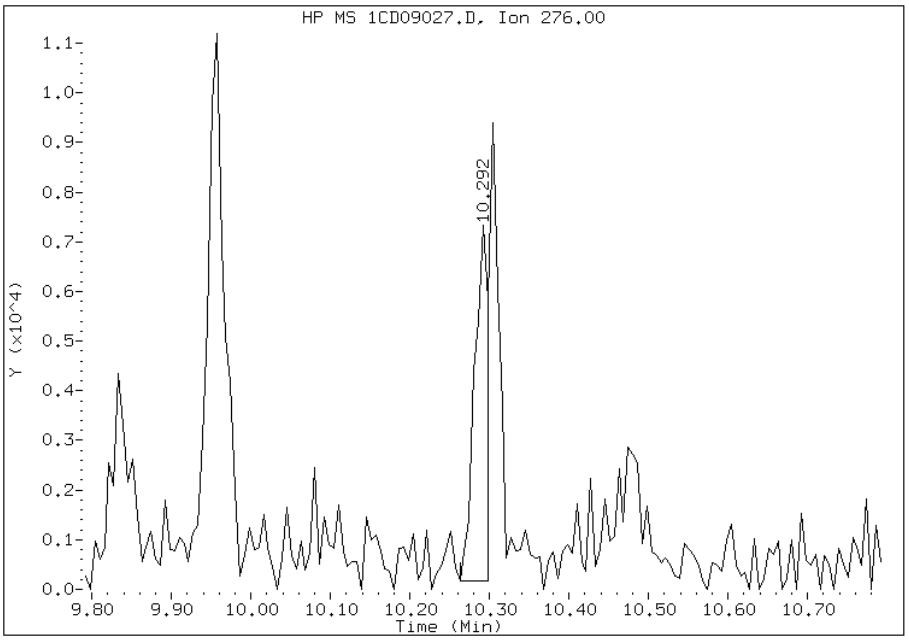
Processing Integration Results

RT: 10.29

Response: 8509

Amount: 1

Conc: 49



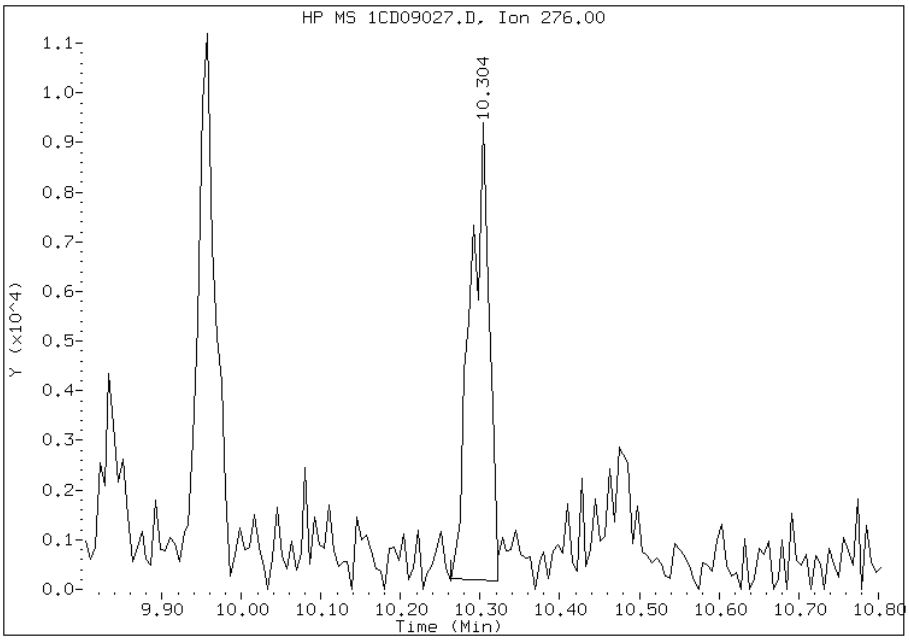
Manual Integration Results

RT: 10.30

Response: 15157

Amount: 1

Conc: 88



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 15:07
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CD09027.D
Inj. Date and Time: 09-APR-2013 19:11
Instrument ID: BSMC5973.i
Client ID: CV1121A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

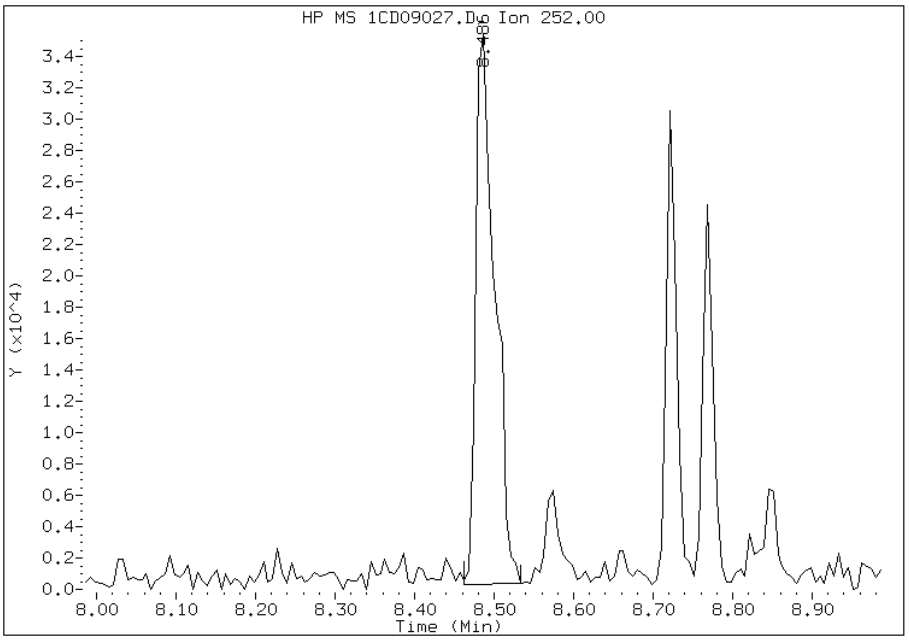
Processing Integration Results

RT: 8.49

Response: 58047

Amount: 4

Conc: 317



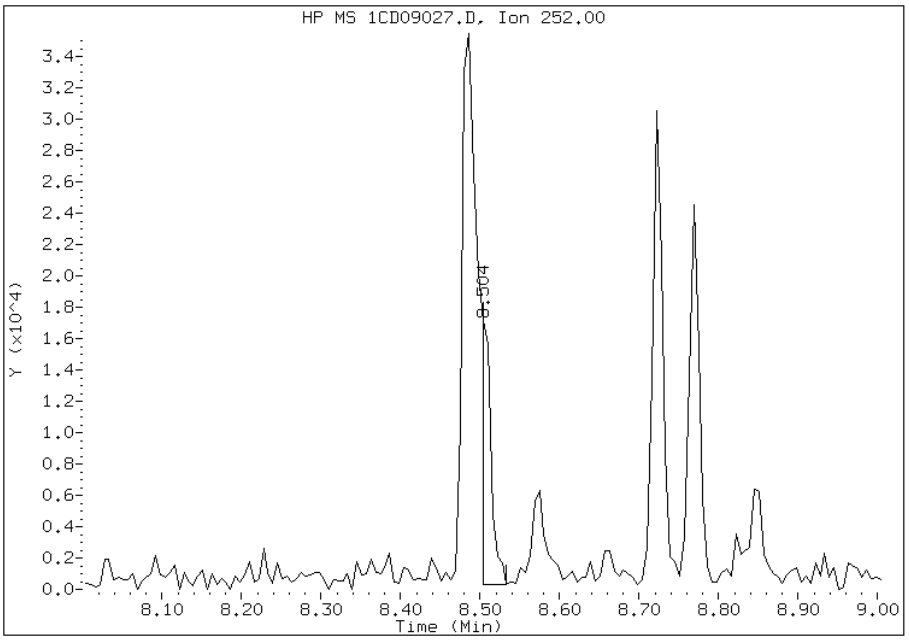
Manual Integration Results

RT: 8.50

Response: 14003

Amount: 1

Conc: 76



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:53
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1121B-CS | Lab Sample ID: 680-88811-52

Matrix: Solid | Lab File ID: 1CD09028.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 08:50

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 14.81(g) | Date Analyzed: 04/09/2013 19:29

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.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	41	J	210	26
120-12-7	Anthracene	99		44	22
56-55-3	Benzo[a]anthracene	440		42	20
50-32-8	Benzo[a]pyrene	370		54	27
205-99-2	Benzo[b]fluoranthene	400		64	32
191-24-2	Benzo[g,h,i]perylene	260		100	23
207-08-9	Benzo[k]fluoranthene	320		42	19
218-01-9	Chrysene	490		47	23
53-70-3	Dibenz(a,h)anthracene	44	J	100	21
206-44-0	Fluoranthene	590		100	21
86-73-7	Fluorene	57	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	230		100	37
90-12-0	1-Methylnaphthalene	110	J	210	23
91-57-6	2-Methylnaphthalene	210		210	37
91-20-3	Naphthalene	230		210	23
85-01-8	Phenanthrene	390		42	20
129-00-0	Pyrene	580		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	106		30-130

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09028.D
Lab Smp Id: 680-88811-A-52-A Client Smp ID: CV1121B-CS
Inj Date : 09-APR-2013 19:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-52-a
Misc Info : 680-88811-A-52-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 28
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.810	Weight Extracted
M	22.326	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.686	3.686	(1.000)	373641	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	281393	40.0000	
*	10 Phenanthrene-d10	188	5.715	5.716	(1.000)	489897	40.0000	
$	14 o-Terphenyl	230	5.968	5.968	(1.044)	15333	2.64289	918.9808
*	18 Chrysene-d12	240	7.651	7.657	(1.000)	496321	40.0000	
*	23 Perylene-d12	264	8.821	8.827	(1.000)	474433	40.0000	
	2 Naphthalene	128	3.698	3.698	(1.003)	6245	0.65073	226.2709(Q)
	3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	4019	0.61521	213.9185
	4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	1879	0.31966	111.1498(Q)
	5 Acenaphthylene	152	4.686	4.686	(0.982)	1381	0.11858	41.2322
	9 Fluorene	166	5.109	5.110	(1.070)	1584	0.16473	57.2779(Q)
	11 Phenanthrene	178	5.733	5.733	(1.003)	15913	1.11529	387.8051
	12 Anthracene	178	5.762	5.768	(1.008)	4129	0.28547	99.2645(Q)
	13 Carbazole	167	5.874	5.874	(1.028)	2705	0.21829	75.9040(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.568	(1.149)	26527	1.68347	585.3738
16 Pyrene	202	6.733	6.733	(0.880)	23001	1.67299	581.7268
17 Benzo(a)anthracene	228	7.645	7.645	(0.999)	16277	1.26748	440.7252
19 Chrysene	228	7.668	7.674	(1.002)	20086	1.42021	493.8322
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	15290	1.13997	396.3881(M)
21 Benzo(k)fluoranthene	252	8.492	8.509	(0.963)	12042	0.92828	322.7783(M)
22 Benzo(a)pyrene	252	8.762	8.768	(0.993)	13425	1.06314	369.6731
24 Indeno(1,2,3-cd)pyrene	276	9.950	9.956	(1.128)	8007	0.66759	232.1328(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.974	(1.131)	1406	0.12690	44.1256
26 Benzo(g,h,i)perylene	276	10.292	10.298	(1.167)	9192	0.75091	261.1036

QC Flag Legend

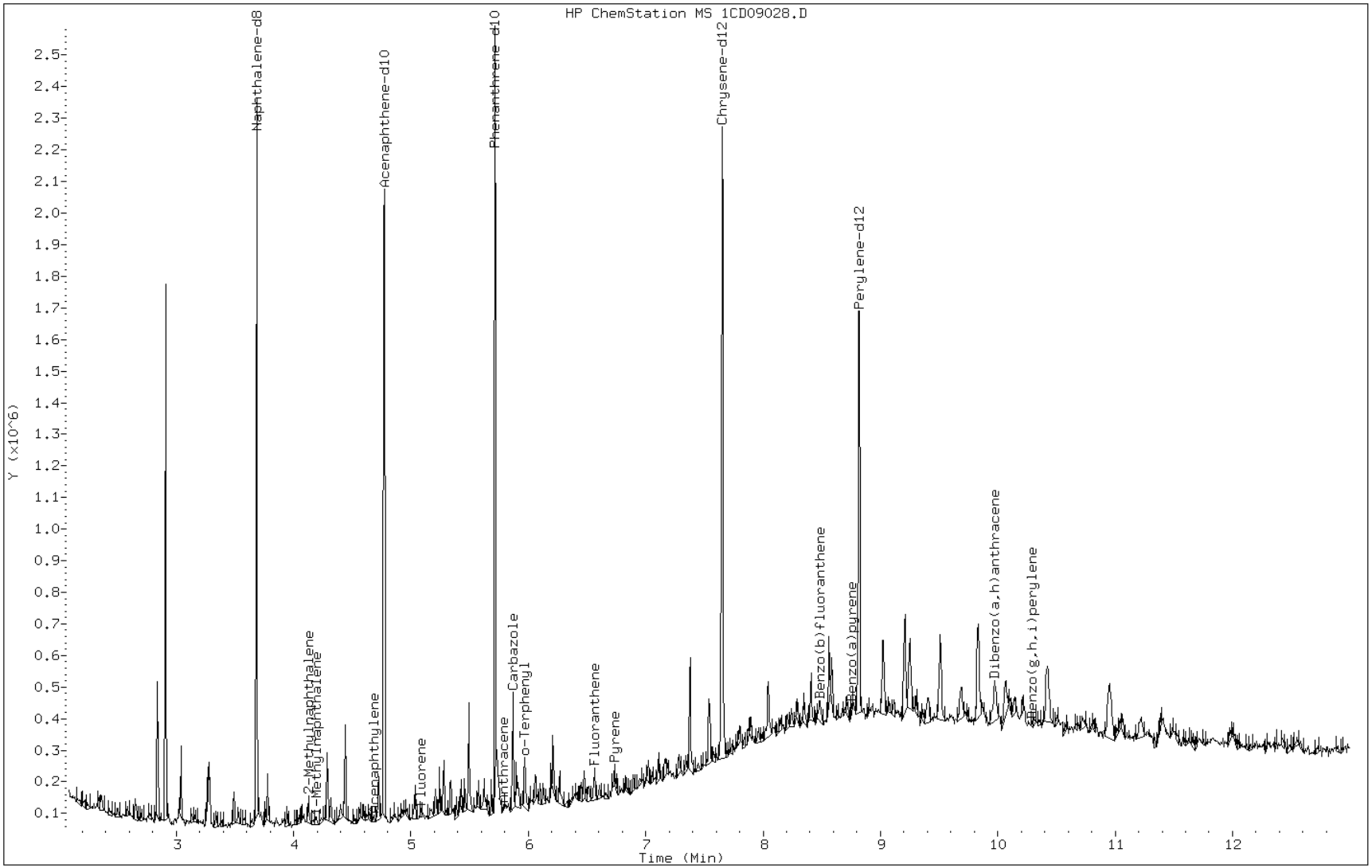
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC



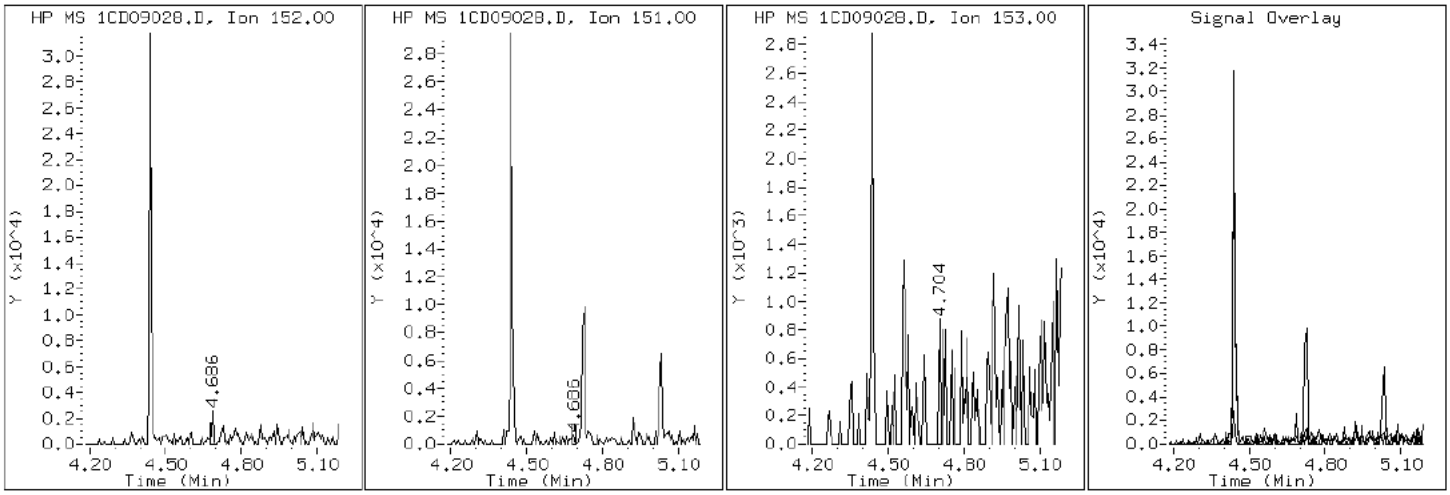
Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC

5 Acenaphthylene



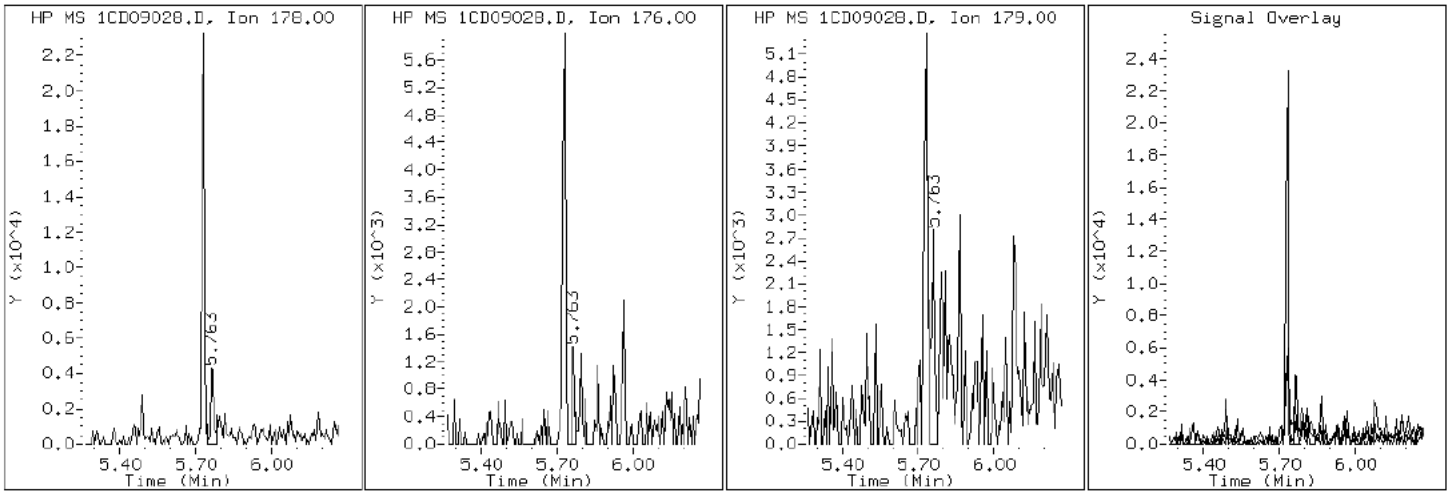
Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC

12 Anthracene



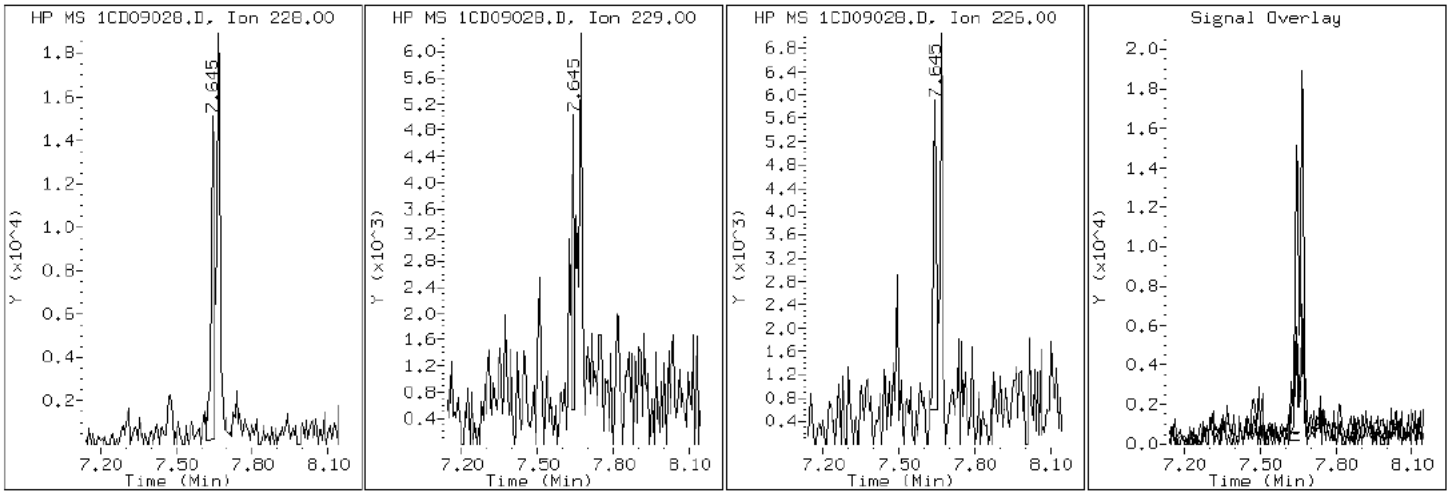
Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC

17 Benzo(a)anthracene



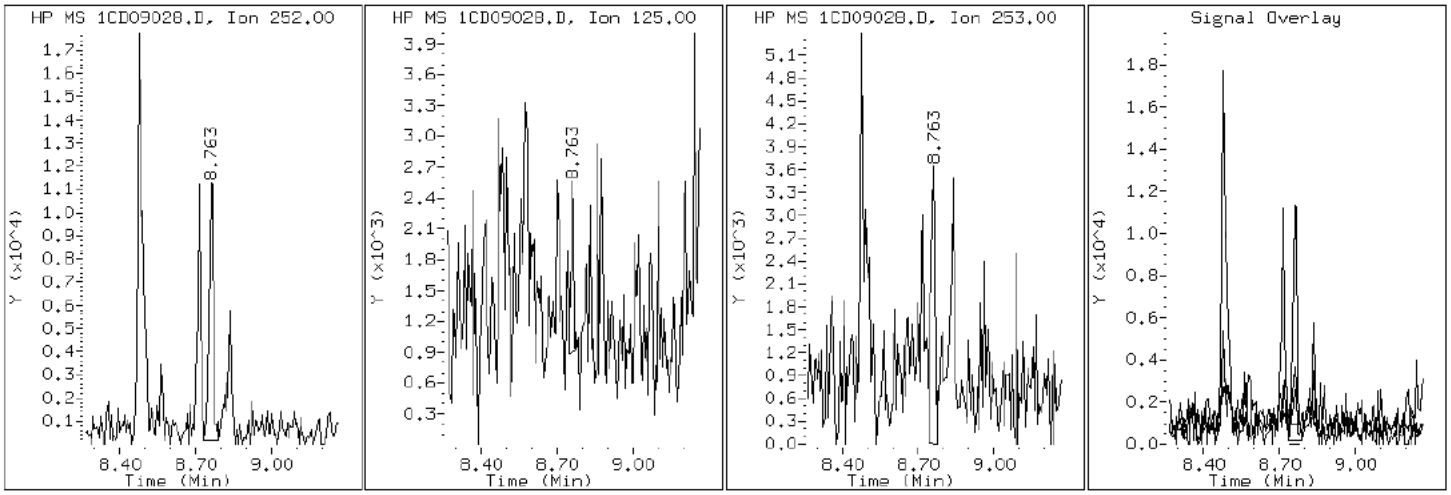
Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC

22 Benzo(a)pyrene



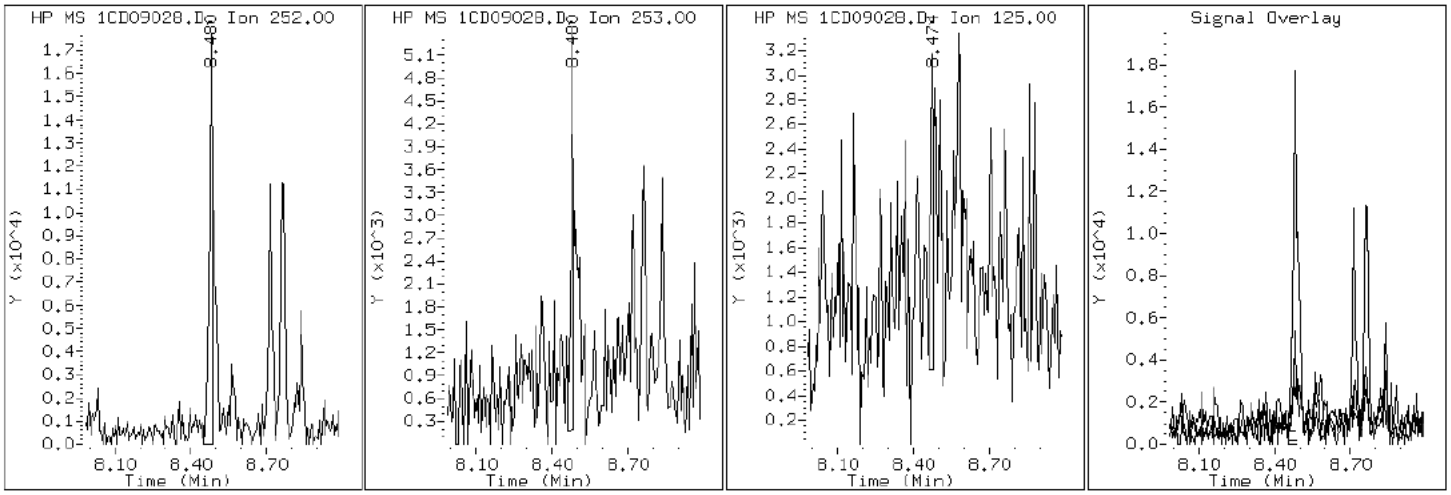
Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC

20 Benzo(b)fluoranthene



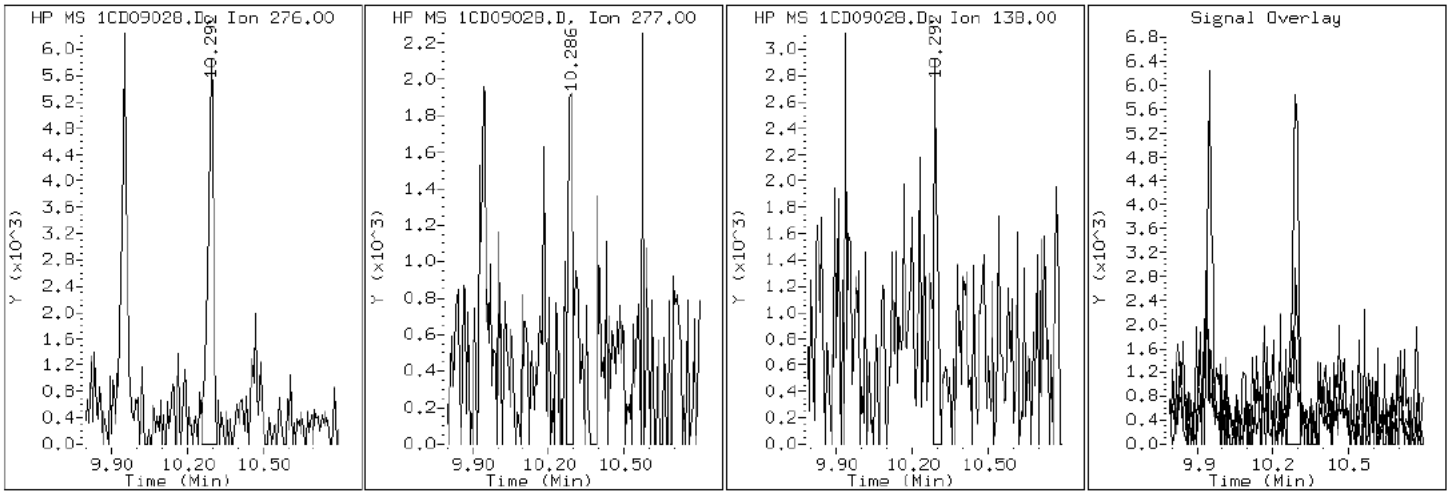
Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC

26 Benzo(g,h,i)perylene



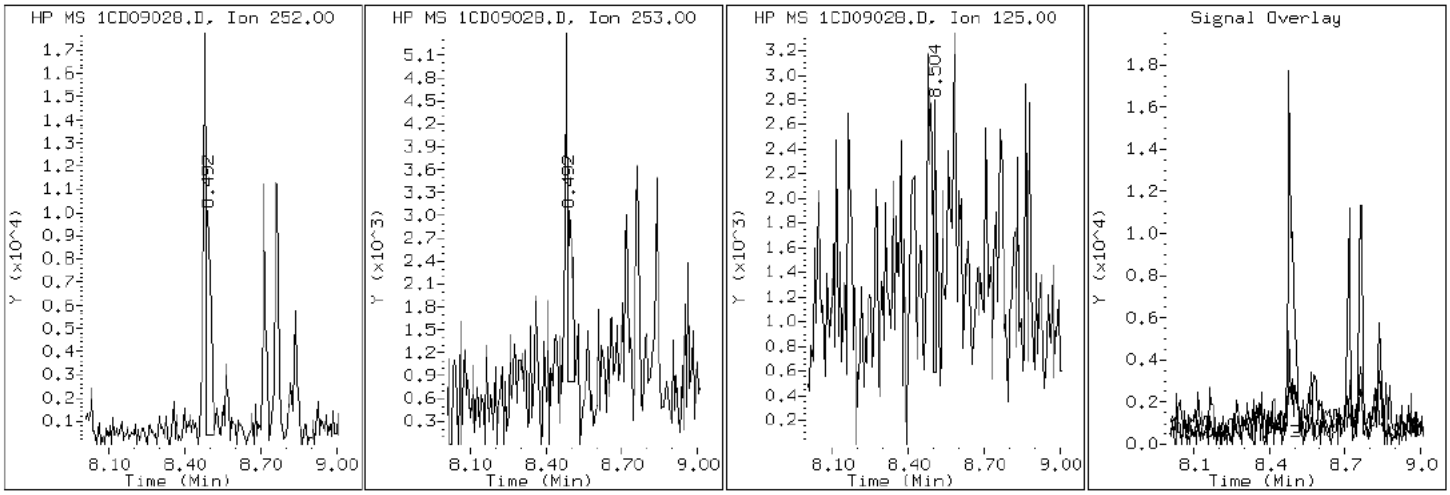
Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC

21 Benzo(k)fluoranthene



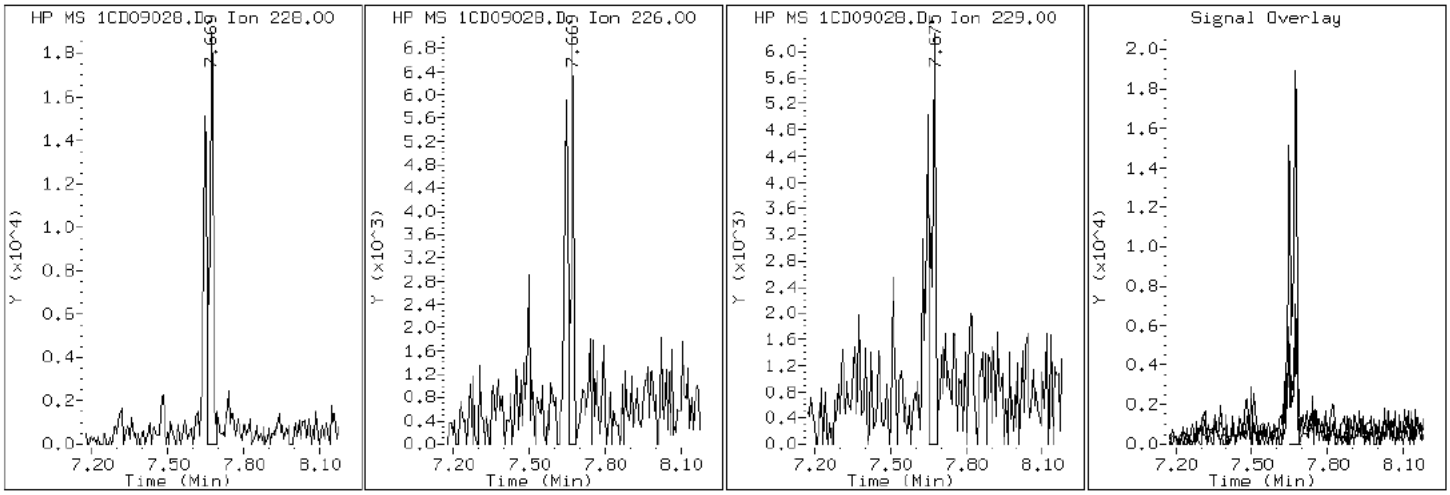
Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC

19 Chrysene



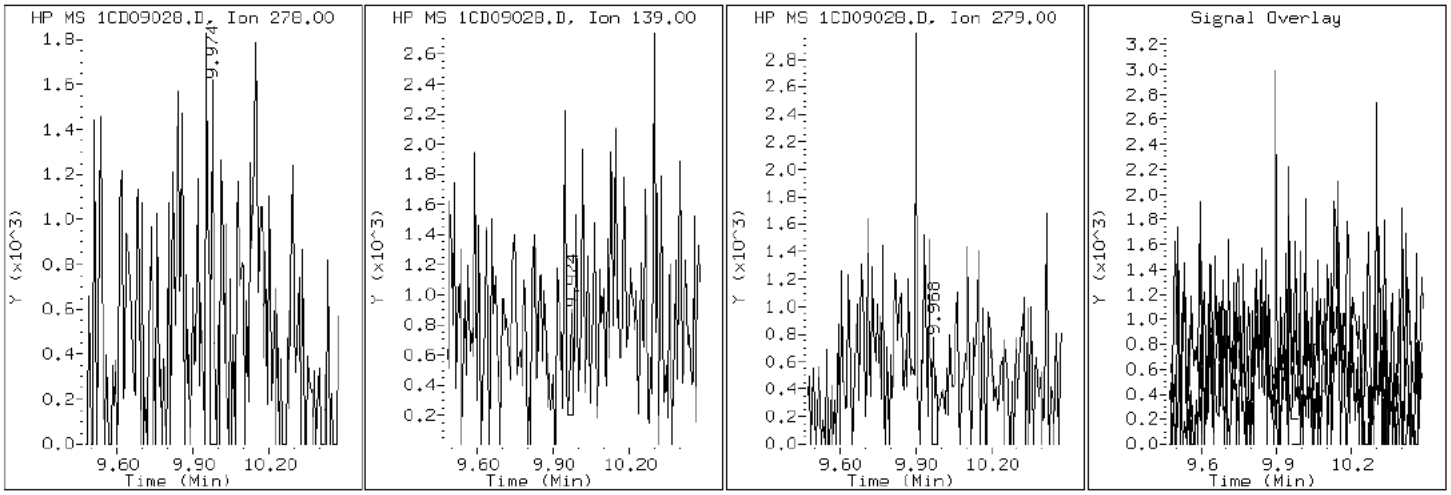
Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC

25 Dibenzo(a,h)anthracene



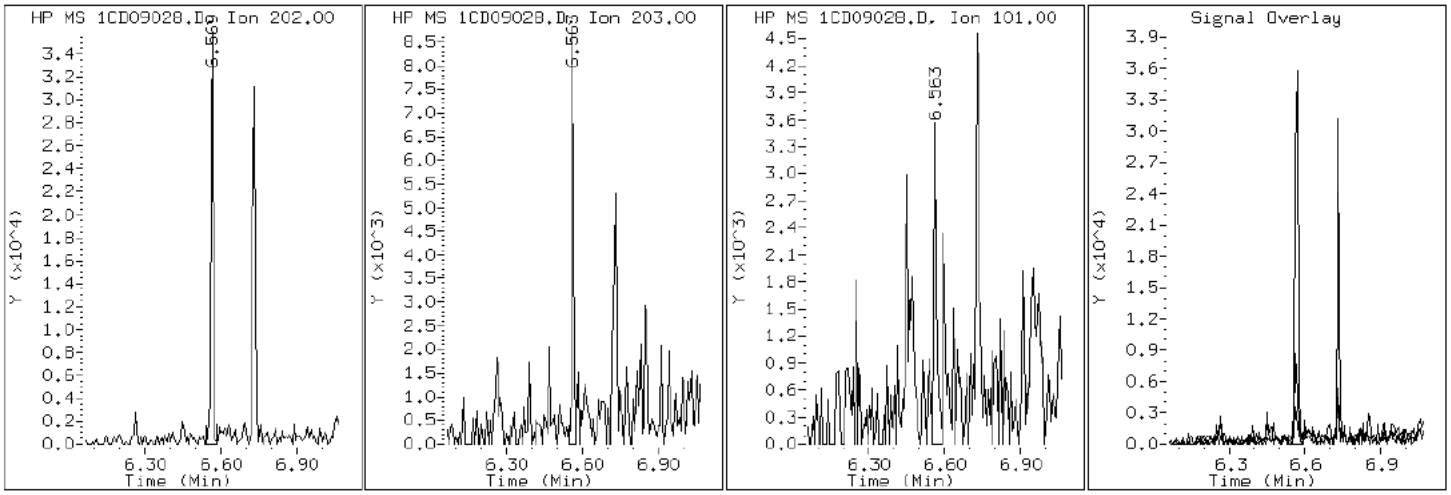
Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC

15 Fluoranthene



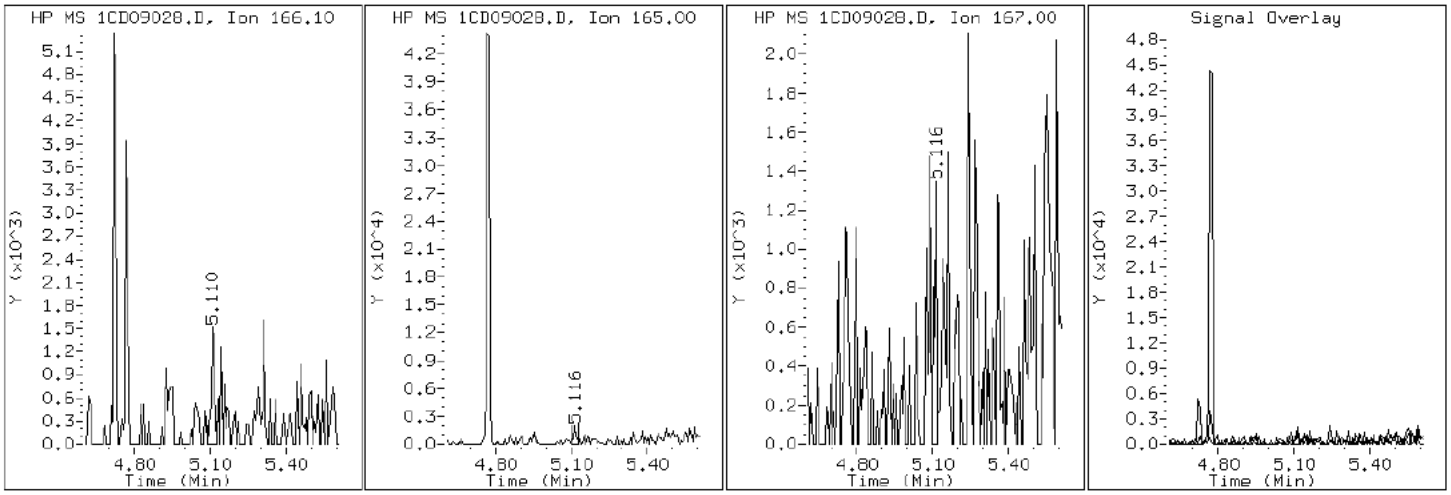
Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC

9 Fluorene



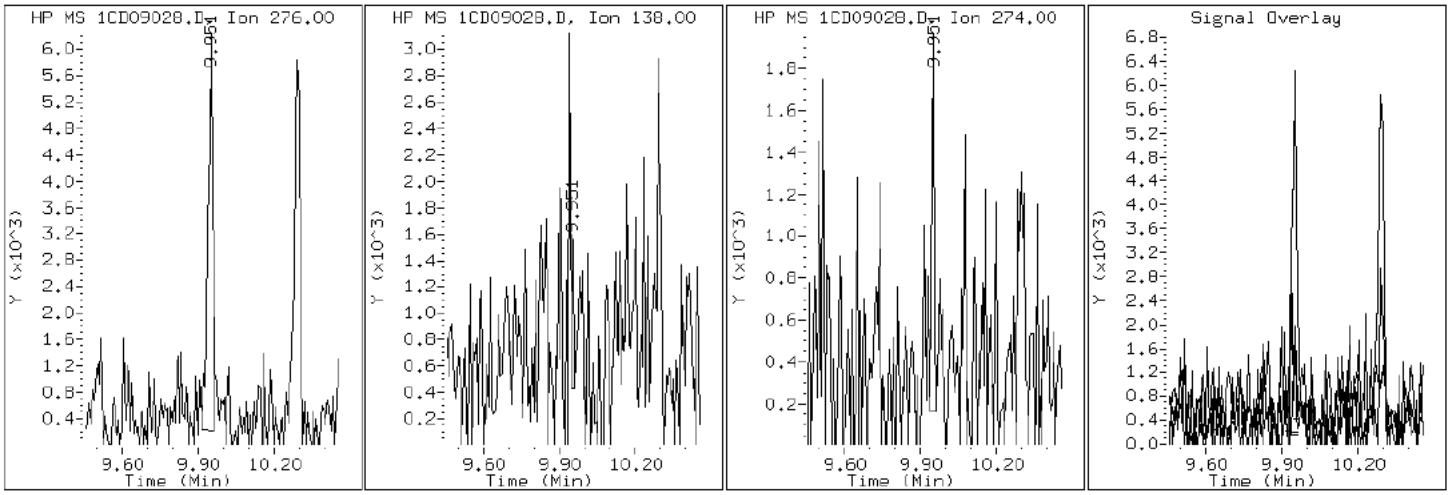
Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC

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



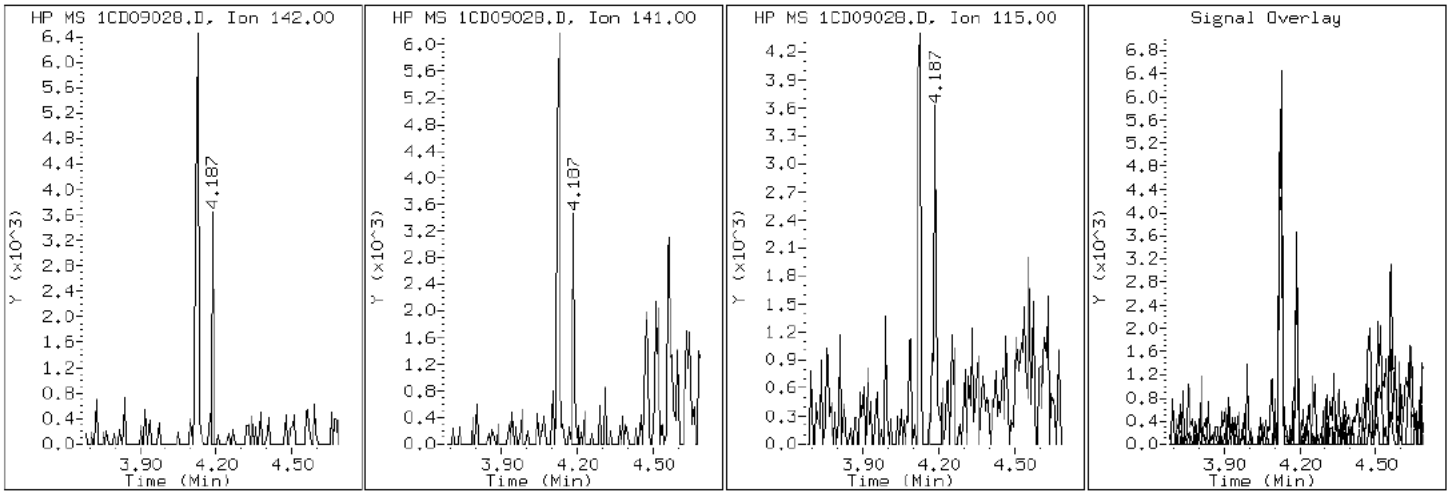
Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC

4 1-Methylnaphthalene



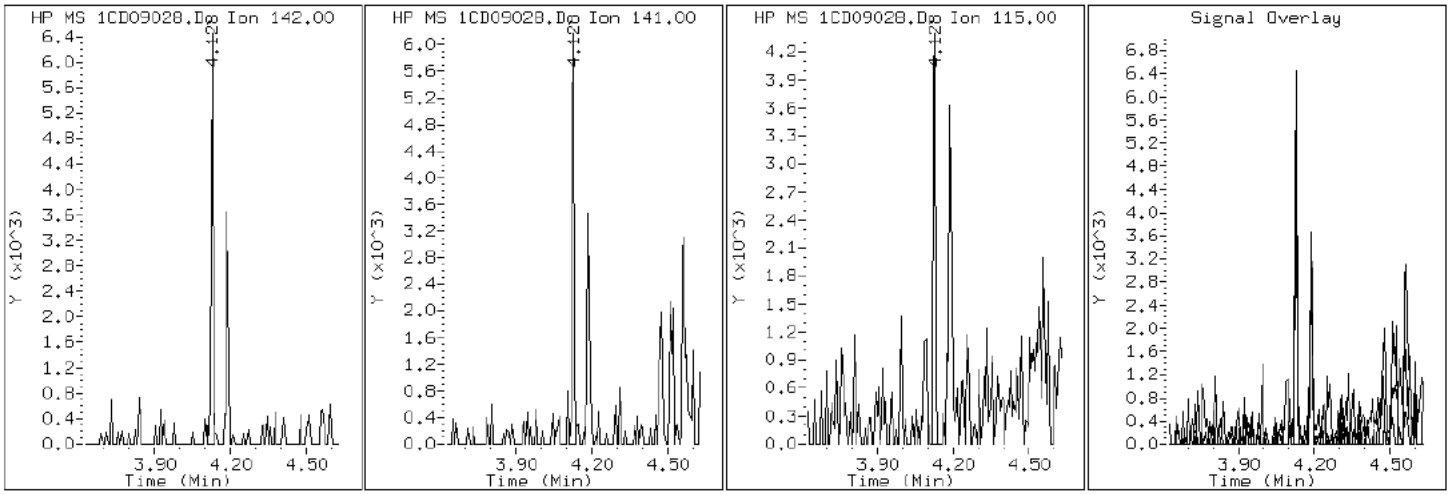
Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC

3 2-Methylnaphthalene



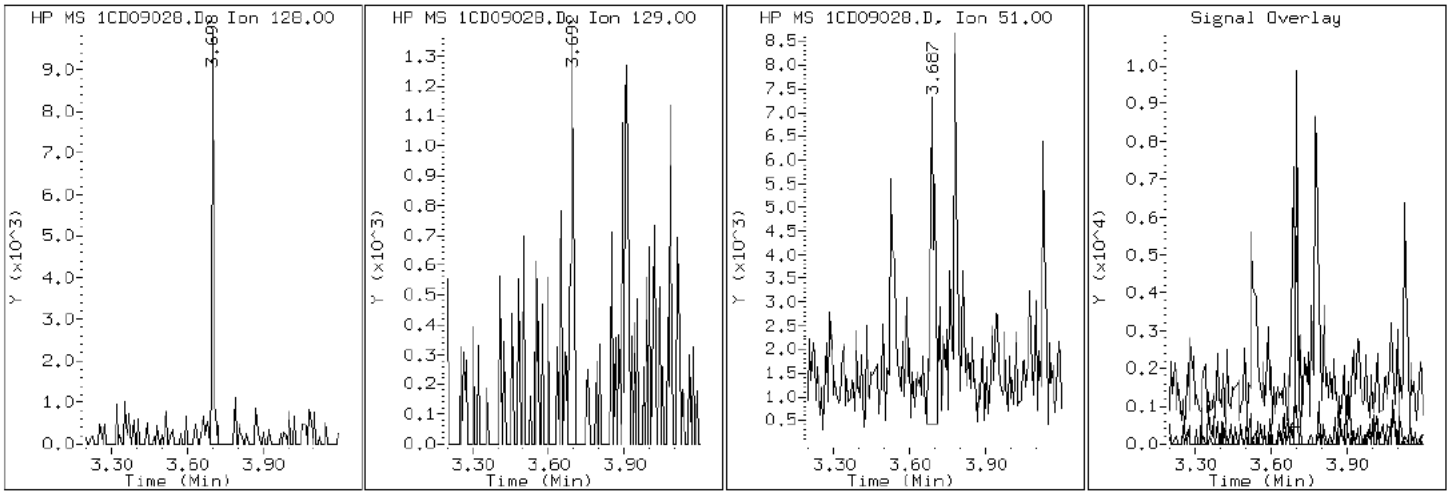
Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC

2 Naphthalene



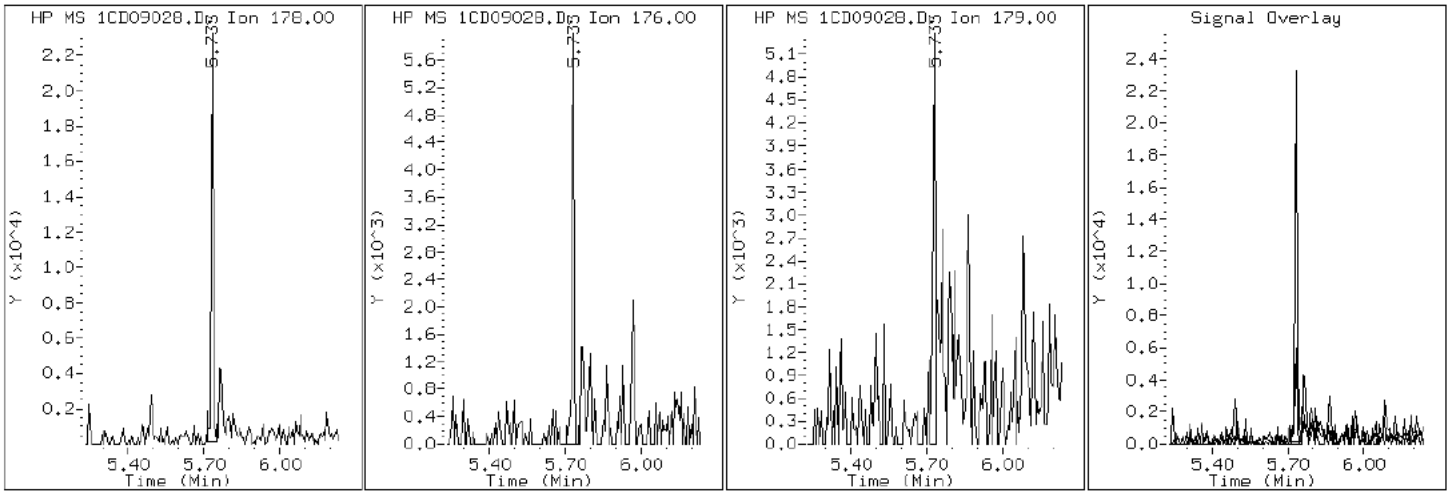
Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC

11 Phenanthrene



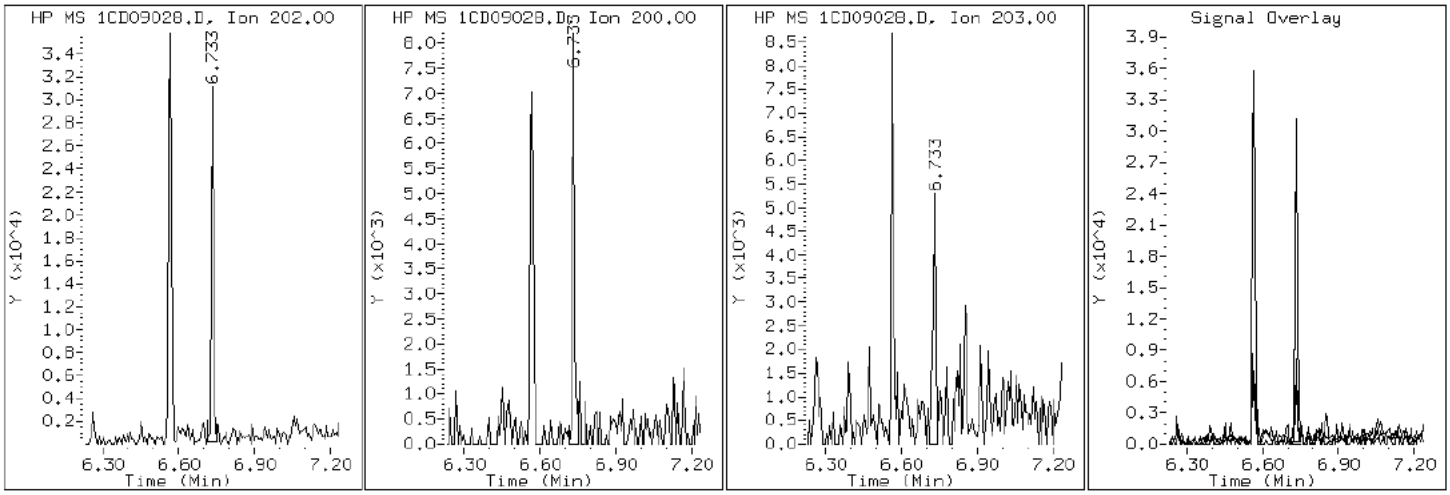
Data File: 1CD09028.D

Date: 09-APR-2013 19:29

Client ID: CV1121B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-52-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD09028.D
Inj. Date and Time: 09-APR-2013 19:29
Instrument ID: BSMC5973.i
Client ID: CV1121B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

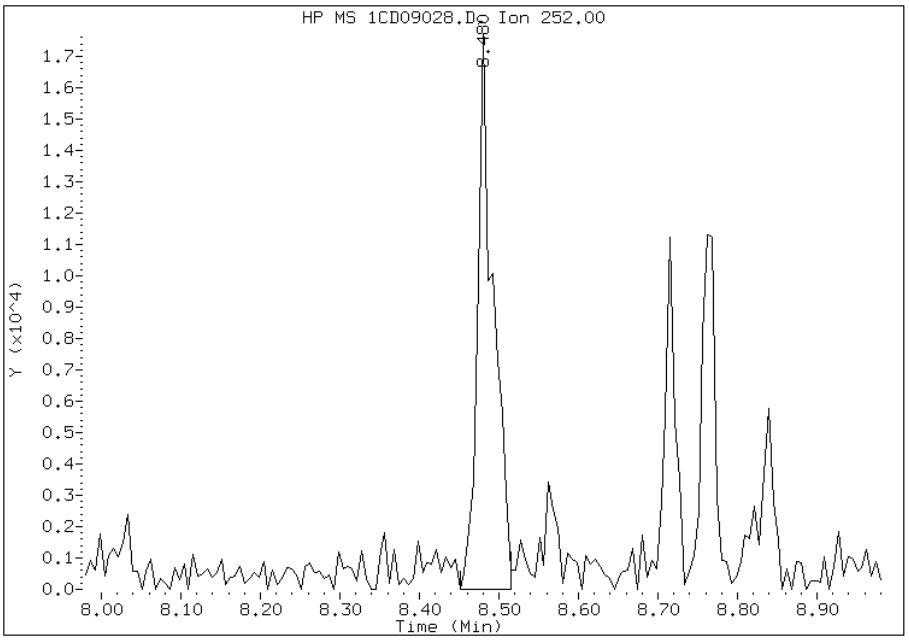
Processing Integration Results

RT: 8.48

Response: 24707

Amount: 2

Conc: 641



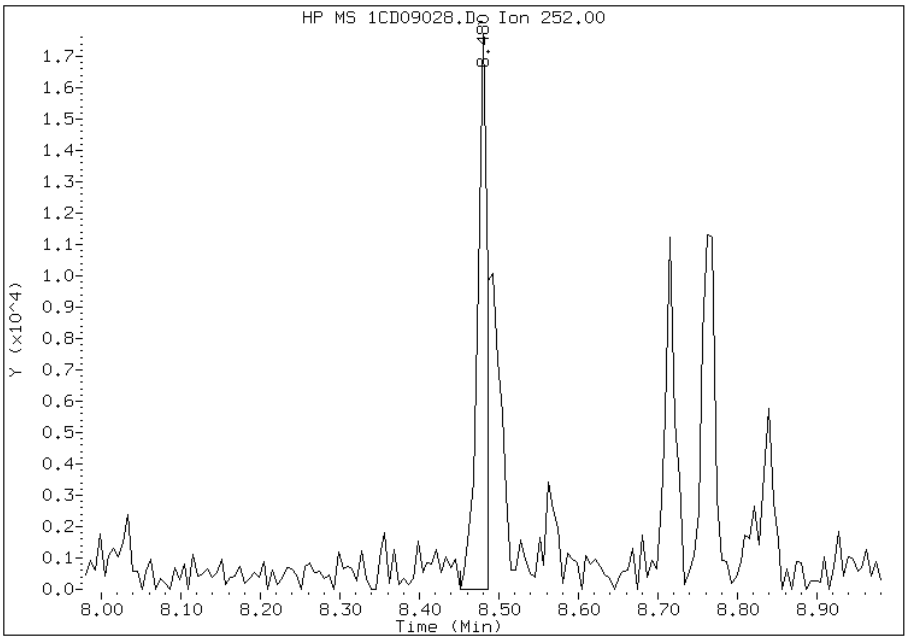
Manual Integration Results

RT: 8.48

Response: 15290

Amount: 1

Conc: 396



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09028.D
Inj. Date and Time: 09-APR-2013 19:29
Instrument ID: BSMC5973.i
Client ID: CV1121B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

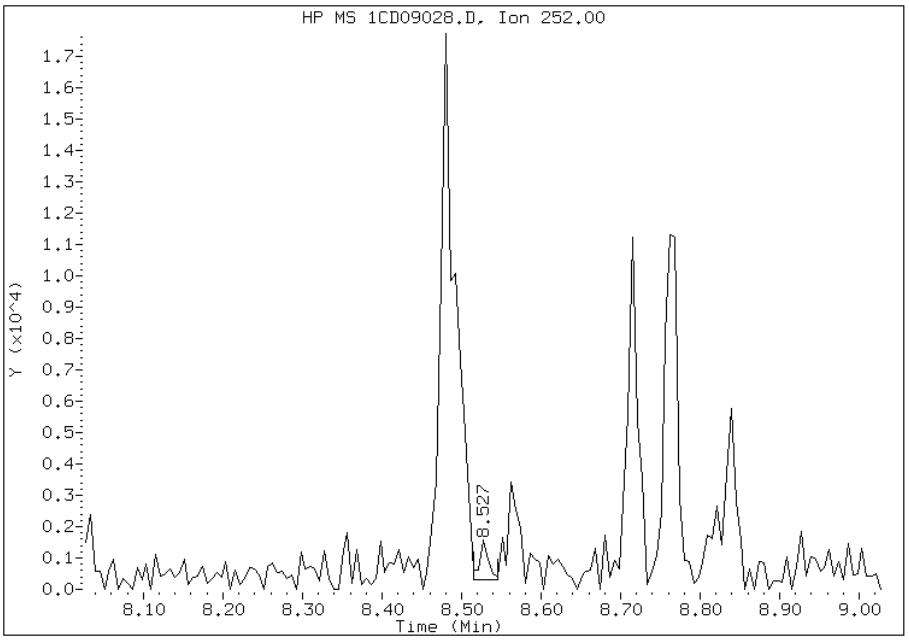
Processing Integration Results

RT: 8.53

Response: 987

Amount: 0

Conc: 26



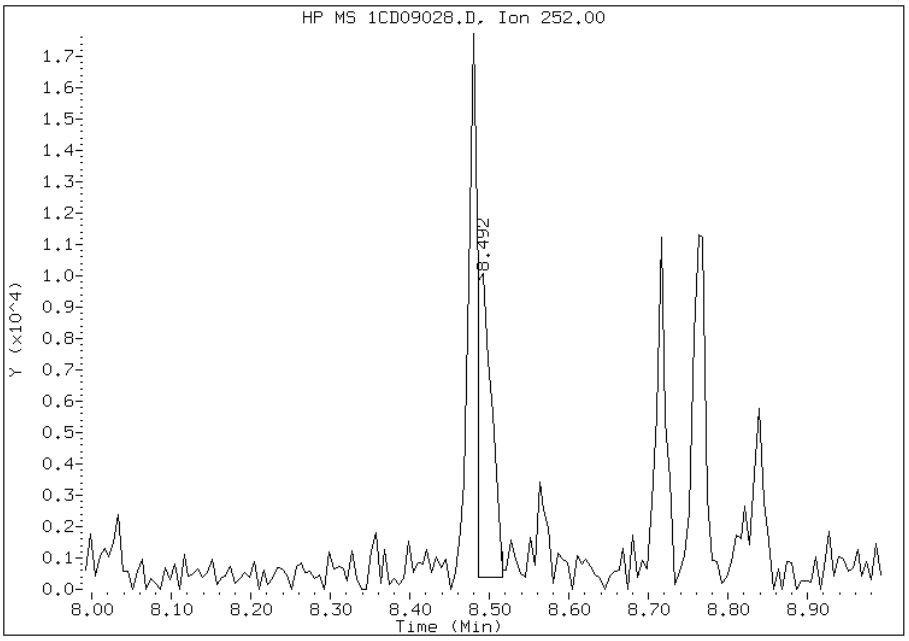
Manual Integration Results

RT: 8.49

Response: 12042

Amount: 1

Conc: 323



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09028.D
Inj. Date and Time: 09-APR-2013 19:29
Instrument ID: BSMC5973.i
Client ID: CV1121B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

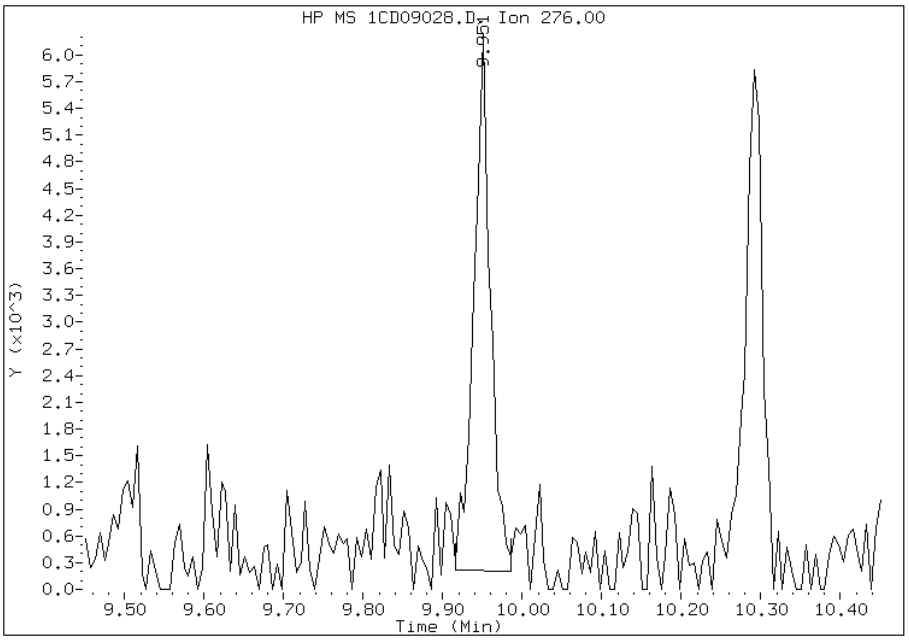
Processing Integration Results

RT: 9.95

Response: 8755

Amount: 1

Conc: 254



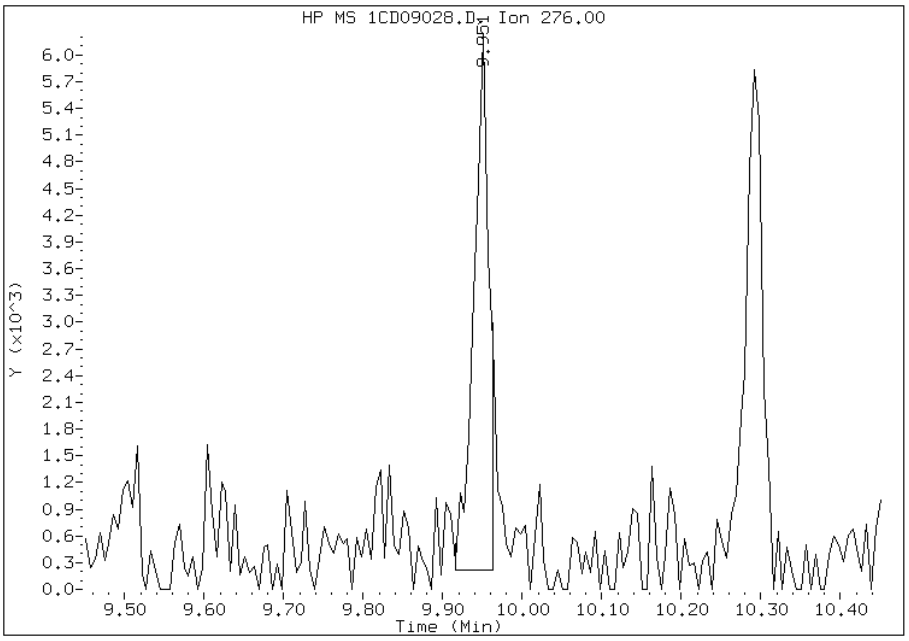
Manual Integration Results

RT: 9.95

Response: 8007

Amount: 1

Conc: 232



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1121C-CS | Lab Sample ID: 680-88811-53

Matrix: Solid | Lab File ID: 1CD09029.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 08:59

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 14.90(g) | Date Analyzed: 04/09/2013 19:48

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

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

% Moisture: 18.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	99
208-96-8	Acenaphthylene	50	J	200	25
120-12-7	Anthracene	58		42	21
56-55-3	Benzo[a]anthracene	250		40	19
50-32-8	Benzo[a]pyrene	200		52	26
205-99-2	Benzo[b]fluoranthene	250		61	30
191-24-2	Benzo[g,h,i]perylene	130		99	22
207-08-9	Benzo[k]fluoranthene	100		40	18
218-01-9	Chrysene	240		45	22
53-70-3	Dibenz(a,h)anthracene	63	J	99	20
206-44-0	Fluoranthene	270		99	20
86-73-7	Fluorene	99	U	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	130		99	35
90-12-0	1-Methylnaphthalene	80	J	200	22
91-57-6	2-Methylnaphthalene	180	J	200	35
91-20-3	Naphthalene	120	J	200	22
85-01-8	Phenanthrene	250		40	19
129-00-0	Pyrene	280		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	100		30-130

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09029.D
Lab Smp Id: 680-88811-A-53-A Client Smp ID: CV1121C-CS
Inj Date : 09-APR-2013 19:48
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-53-a
Misc Info : 680-88811-A-53-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 29
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.900	Weight Extracted
M	18.861	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.686	3.686	(1.000)	408620	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	309214	40.0000	
*	10 Phenanthrene-d10	188	5.715	5.716	(1.000)	555659	40.0000	
$	14 o-Terphenyl	230	5.968	5.968	(1.044)	16019	2.49159	824.3686
*	18 Chrysene-d12	240	7.651	7.657	(1.000)	554419	40.0000	
*	23 Perylene-d12	264	8.815	8.827	(1.000)	521029	40.0000	
	2 Naphthalene	128	3.698	3.698	(1.003)	3898	0.37140	122.8826(Q)
	3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	3918	0.54841	181.4459
	4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	1549	0.24096	79.7234(Q)
	5 Acenaphthylene	152	4.686	4.686	(0.982)	1934	0.15112	50.0002
	11 Phenanthrene	178	5.733	5.733	(1.003)	12004	0.74175	245.4151
	12 Anthracene	178	5.762	5.768	(1.008)	2867	0.17476	57.8217
	13 Carbazole	167	5.874	5.874	(1.028)	2202	0.15667	51.8356
	15 Fluoranthene	202	6.562	6.568	(1.148)	14396	0.80548	266.5023

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Pyrene	202	6.733	6.733	(0.880)	12983	0.84537	279.6981
17 Benzo(a)anthracene	228	7.645	7.645	(0.999)	10156	0.76784	254.0474
19 Chrysene	228	7.674	7.674	(1.003)	11637	0.73659	243.7076
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.962)	10971	0.74481	246.4279
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.964)	4318	0.30309	100.2810(Q)
22 Benzo(a)pyrene	252	8.756	8.768	(0.993)	8303	0.59872	198.0930
24 Indeno(1,2,3-cd)pyrene	276	9.945	9.956	(1.128)	5281	0.40093	132.6518(M)
25 Dibenzo(a,h)anthracene	278	9.956	9.974	(1.129)	2307	0.18960	62.7312
26 Benzo(g,h,i)perylene	276	10.292	10.298	(1.167)	5311	0.39506	130.7102(M)

QC Flag Legend

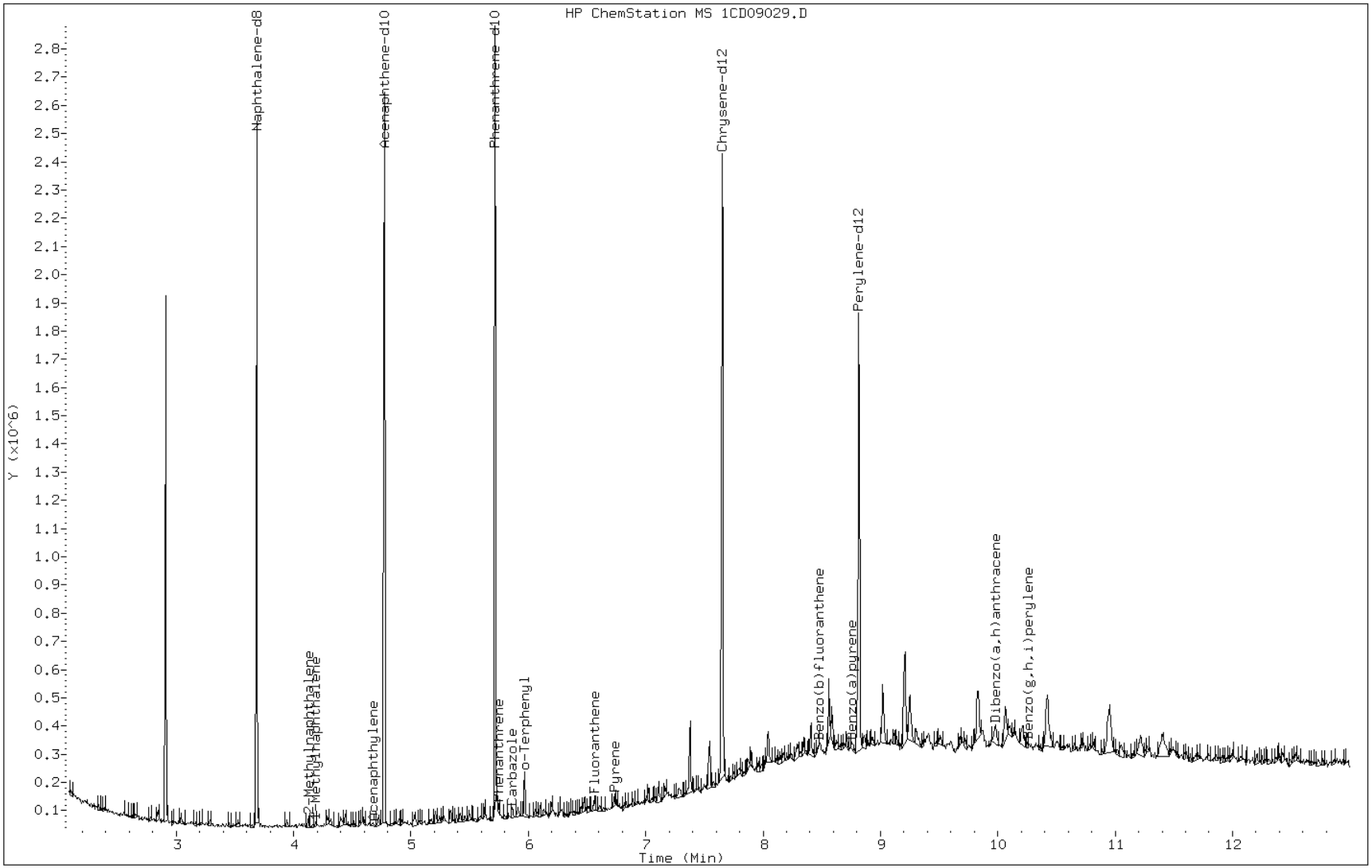
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD09029.D

Date: 09-APR-2013 19:48

Client ID: CV1121C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-53-a Operator: SCC



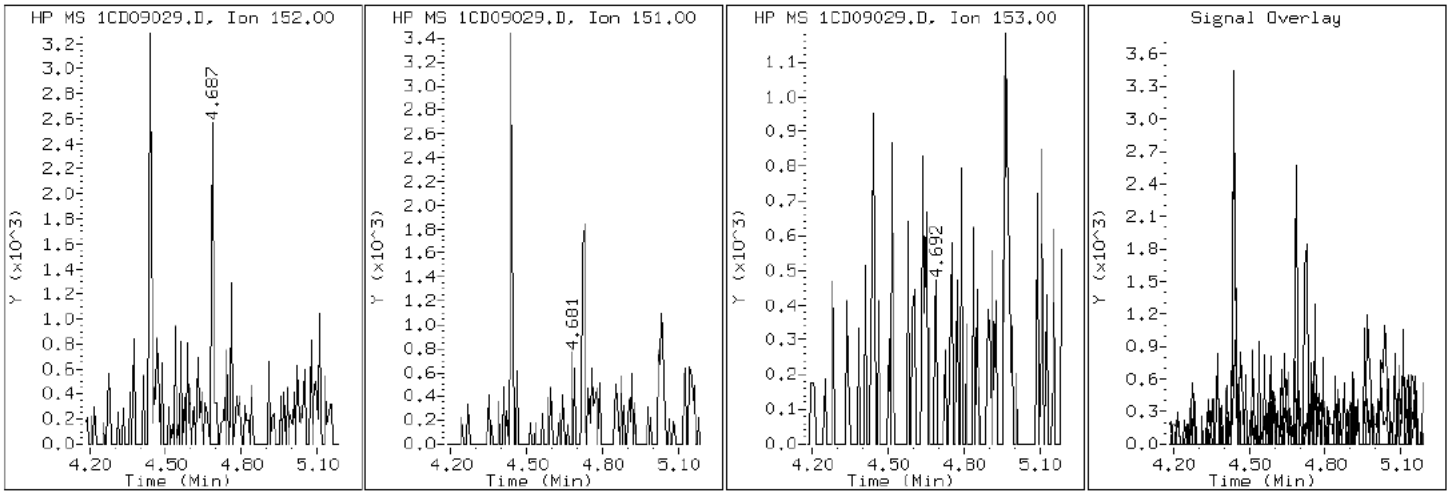
Data File: 1CD09029.D

Date: 09-APR-2013 19:48

Client ID: CV1121C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-53-a Operator: SCC

5 Acenaphthylene



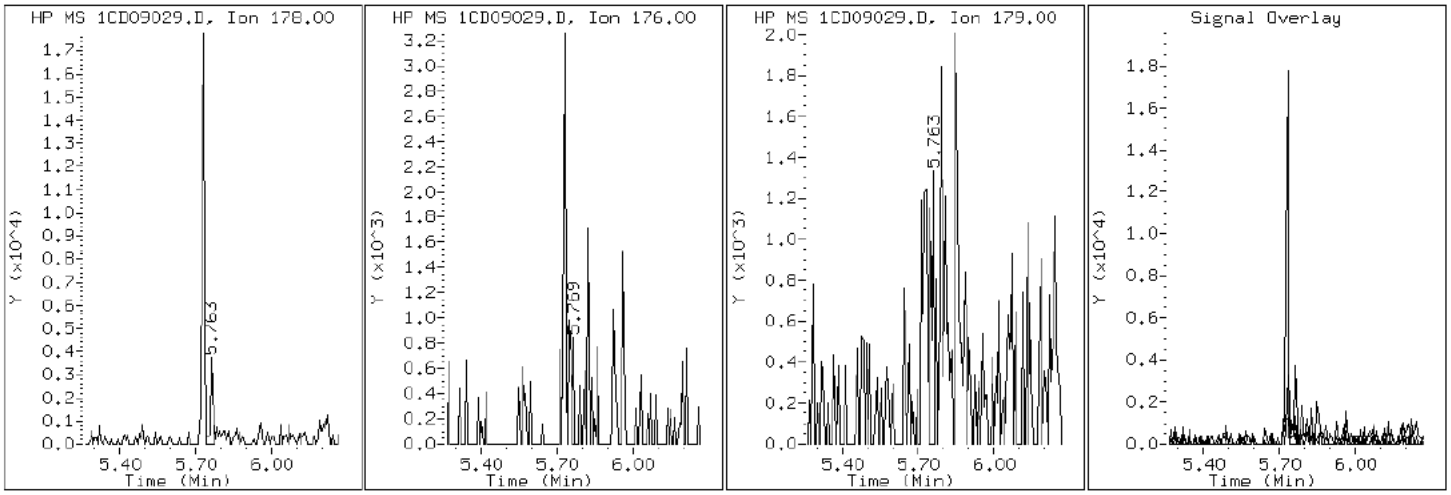
Data File: 1CD09029.D

Date: 09-APR-2013 19:48

Client ID: CV1121C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-53-a Operator: SCC

12 Anthracene



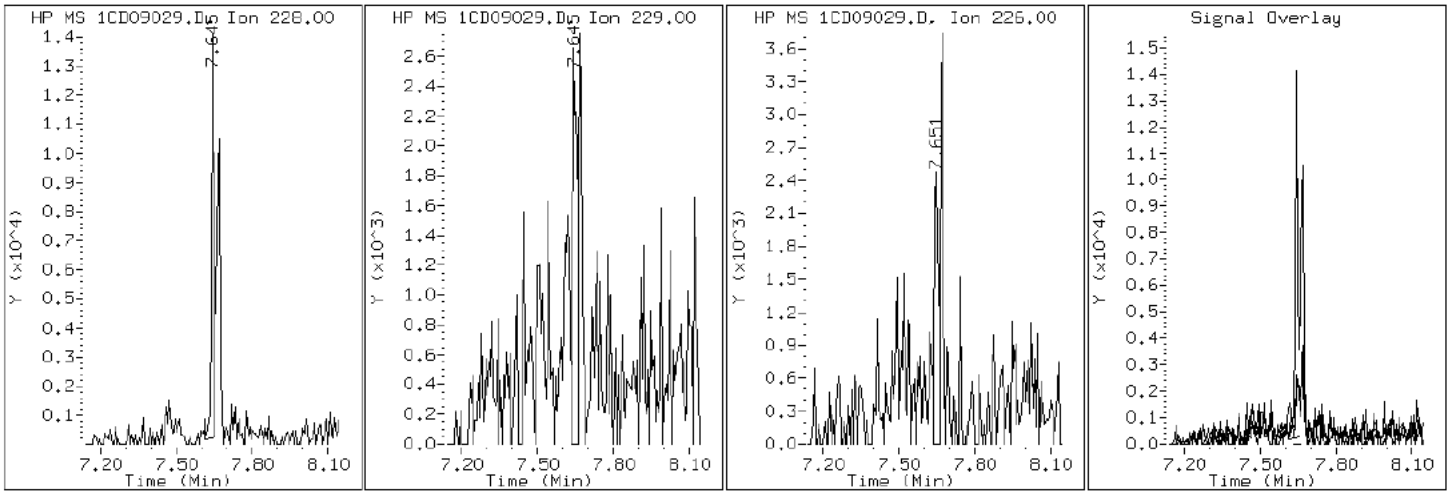
Data File: 1CD09029.D

Date: 09-APR-2013 19:48

Client ID: CV1121C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-53-a Operator: SCC

17 Benzo(a)anthracene



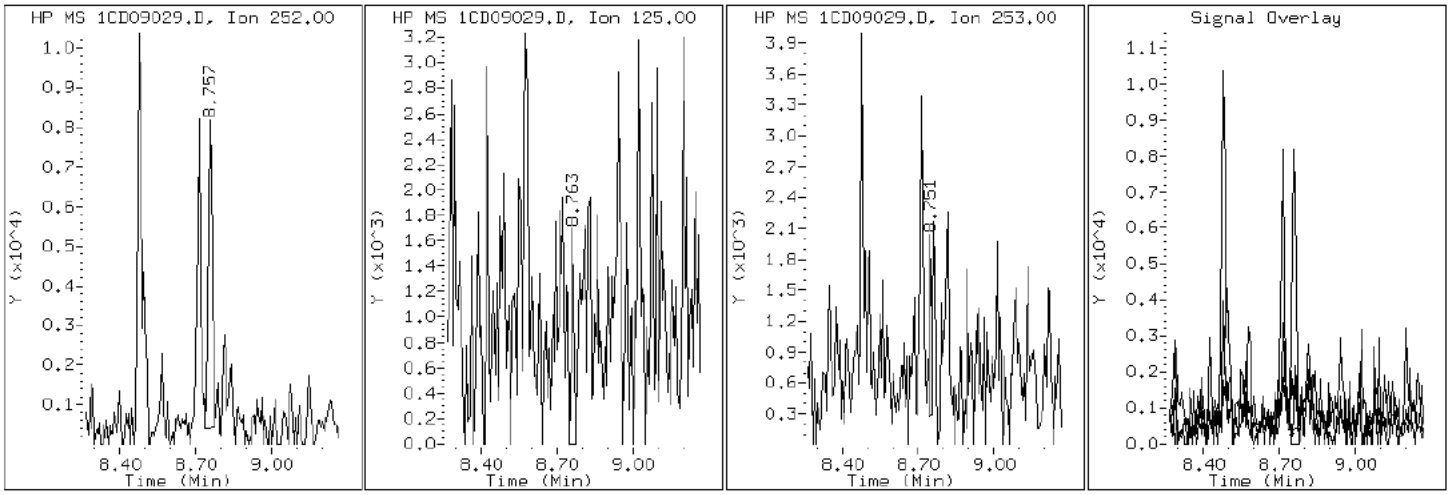
Data File: 1CD09029.D

Date: 09-APR-2013 19:48

Client ID: CV1121C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-53-a Operator: SCC

22 Benzo(a)pyrene



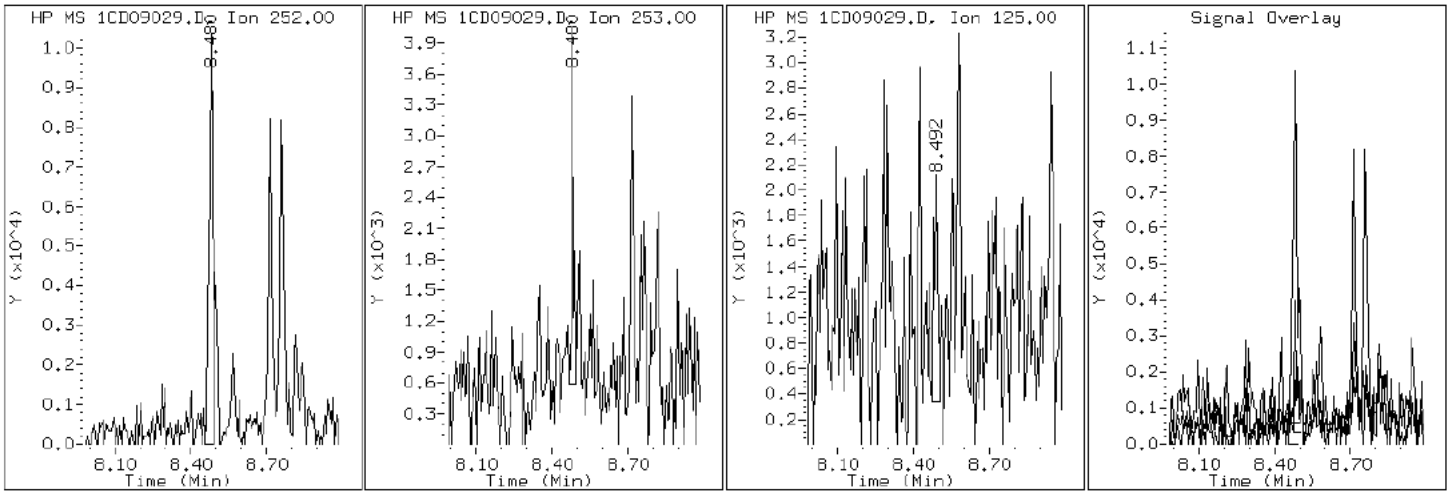
Data File: 1CD09029.D

Date: 09-APR-2013 19:48

Client ID: CV1121C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-53-a Operator: SCC

20 Benzo(b)fluoranthene



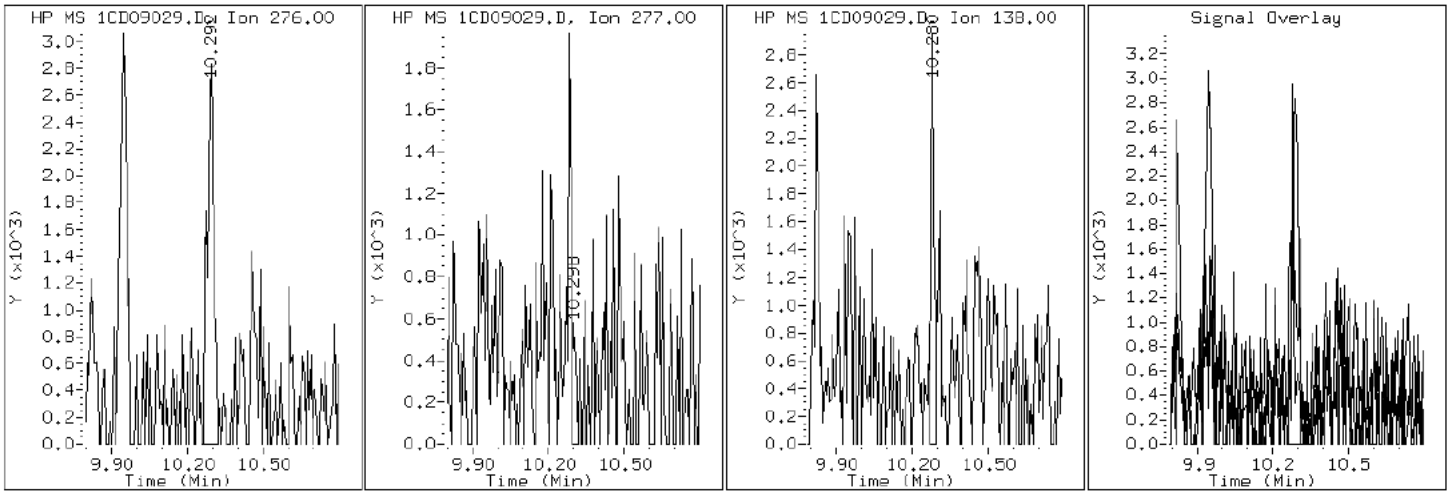
Data File: 1CD09029.D

Date: 09-APR-2013 19:48

Client ID: CV1121C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-53-a Operator: SCC

26 Benzo(g,h,i)perylene



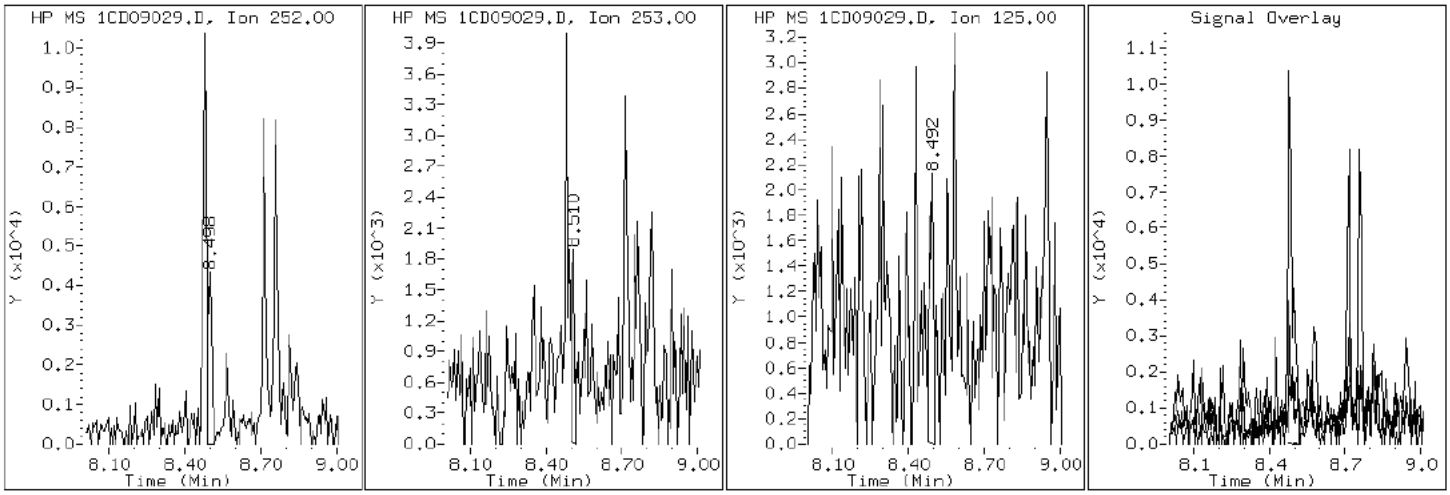
Data File: 1CD09029.D

Date: 09-APR-2013 19:48

Client ID: CV1121C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-53-a Operator: SCC

21 Benzo(k)fluoranthene



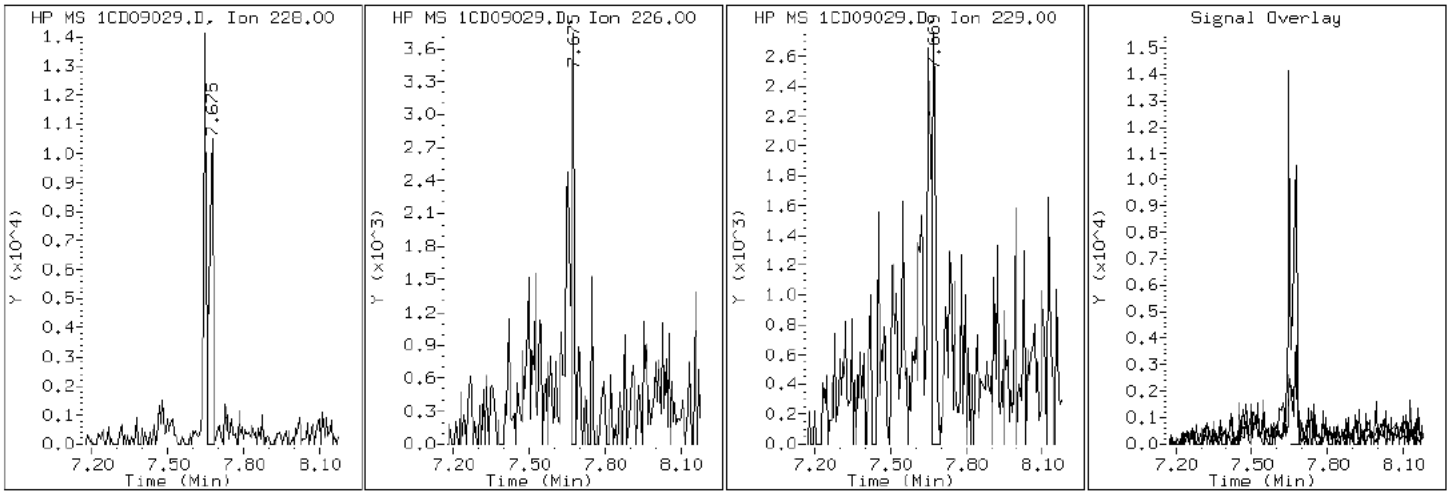
Data File: 1CD09029.D

Date: 09-APR-2013 19:48

Client ID: CV1121C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-53-a Operator: SCC

19 Chrysene



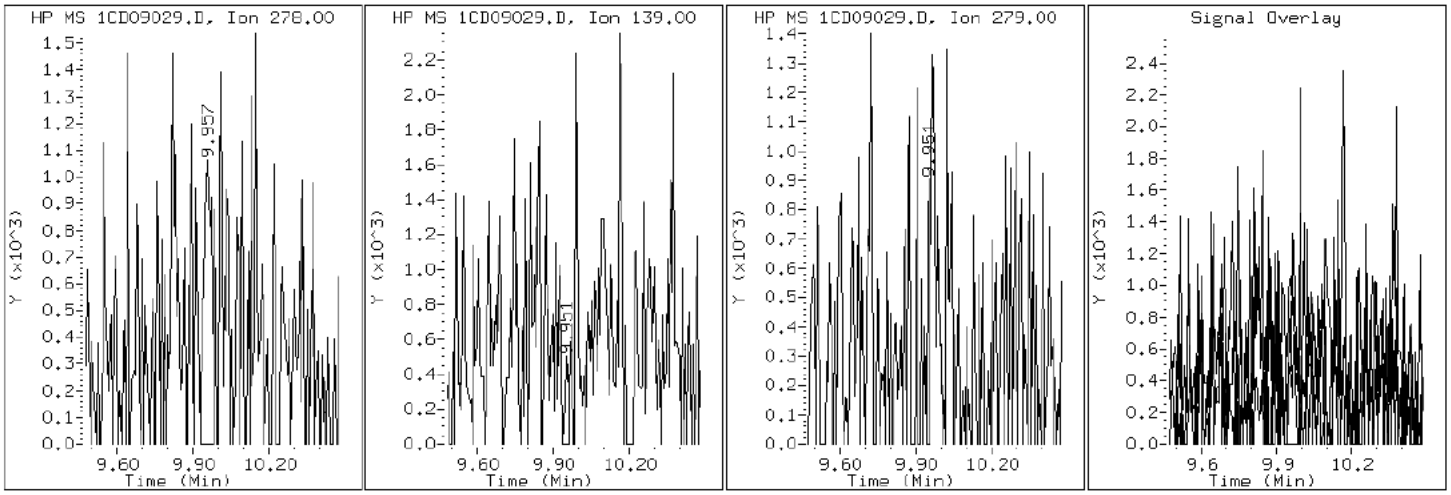
Data File: 1CD09029.D

Date: 09-APR-2013 19:48

Client ID: CV1121C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-53-a Operator: SCC

25 Dibenzo(a,h)anthracene



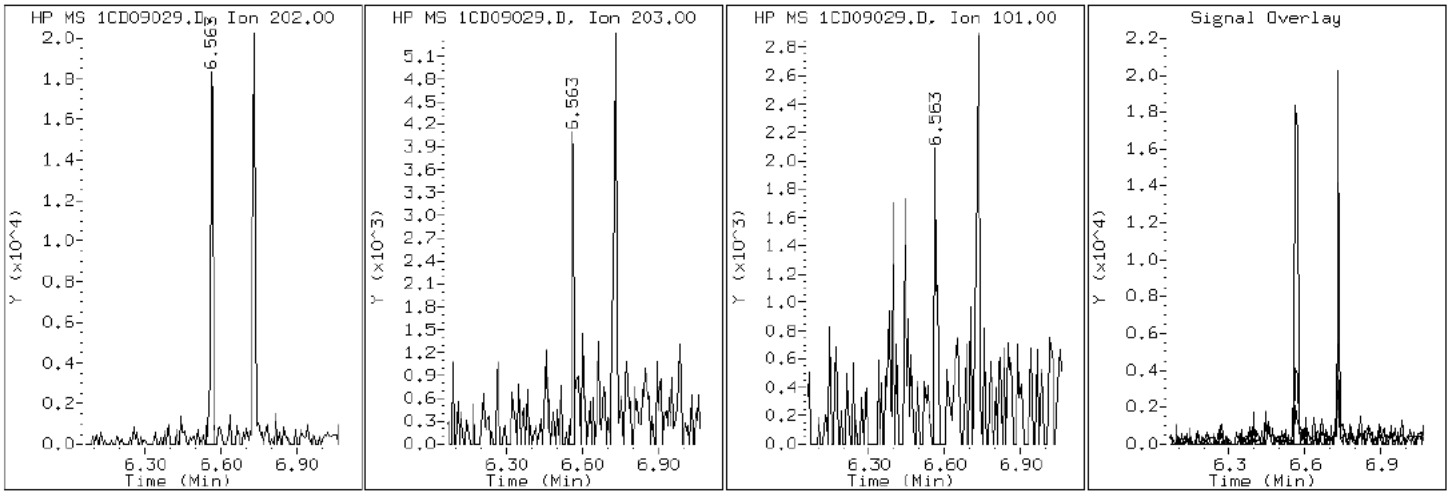
Data File: 1CD09029.D

Date: 09-APR-2013 19:48

Client ID: CV1121C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-53-a Operator: SCC

15 Fluoranthene



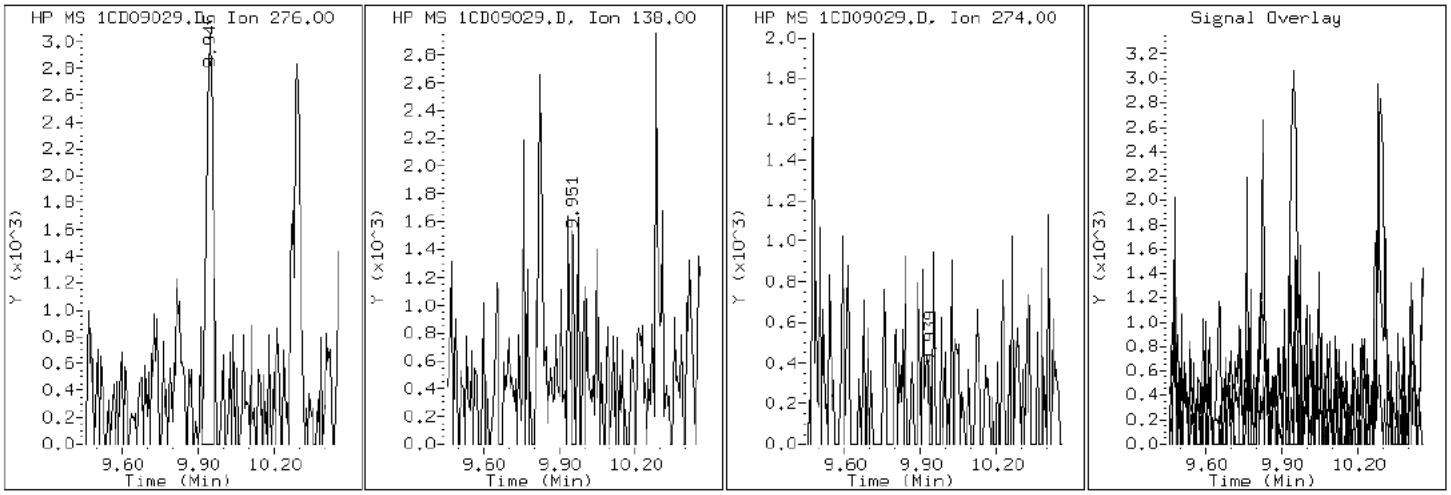
Data File: 1CD09029.D

Date: 09-APR-2013 19:48

Client ID: CV1121C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-53-a Operator: SCC

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



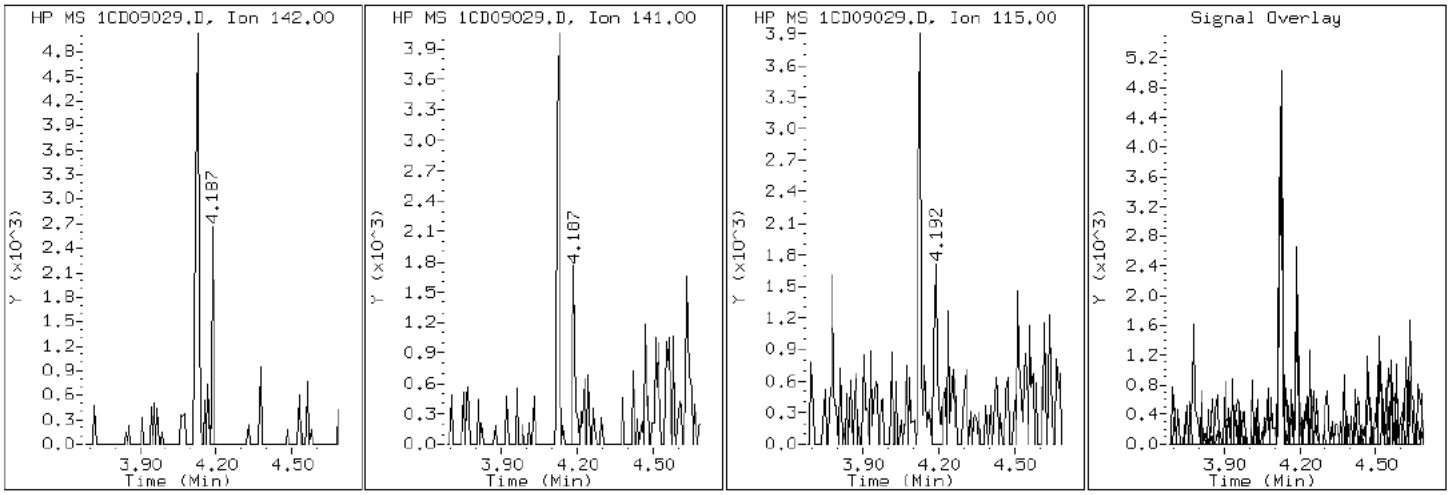
Data File: 1CD09029.D

Date: 09-APR-2013 19:48

Client ID: CV1121C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-53-a Operator: SCC

4 1-Methylnaphthalene



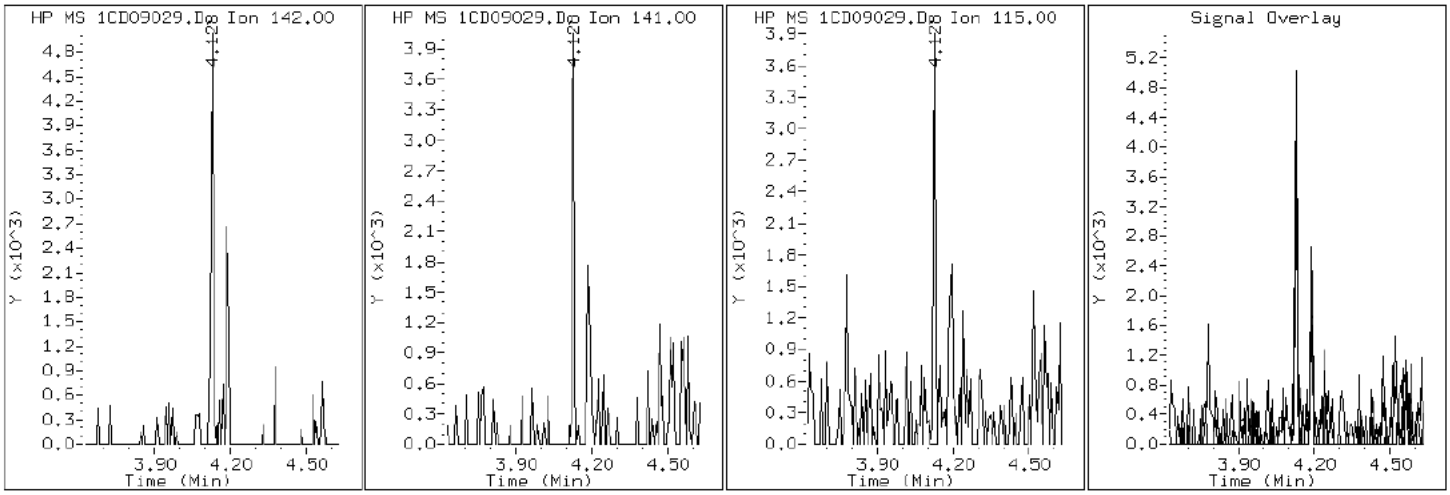
Data File: 1CD09029.D

Date: 09-APR-2013 19:48

Client ID: CV1121C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-53-a Operator: SCC

3 2-Methylnaphthalene



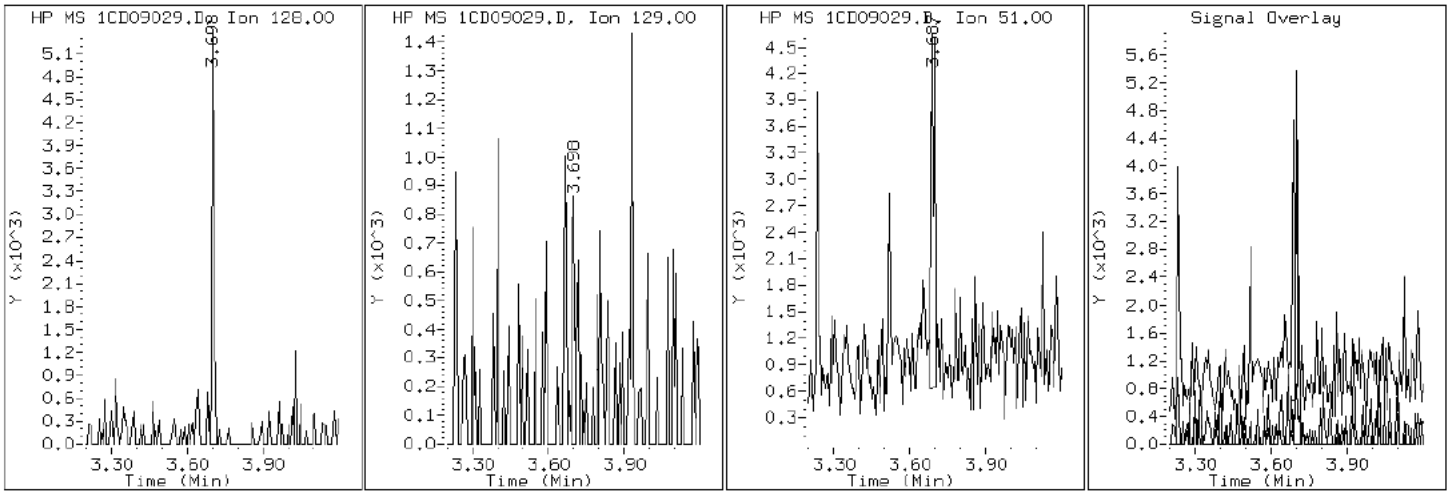
Data File: 1CD09029.D

Date: 09-APR-2013 19:48

Client ID: CV1121C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-53-a Operator: SCC

2 Naphthalene



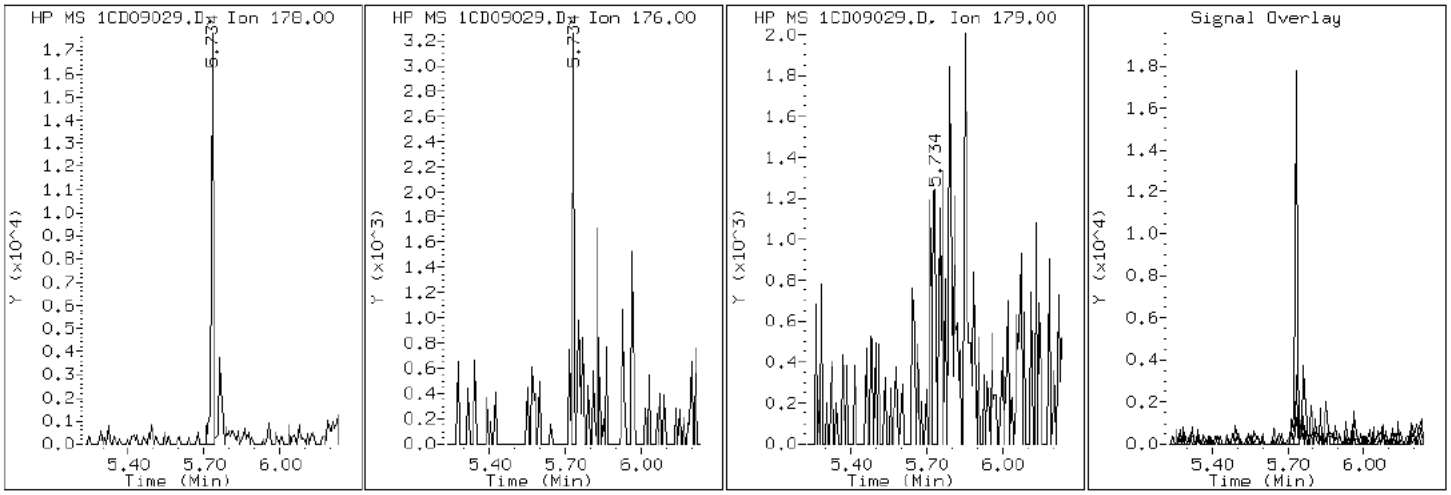
Data File: 1CD09029.D

Date: 09-APR-2013 19:48

Client ID: CV1121C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-53-a Operator: SCC

11 Phenanthrene



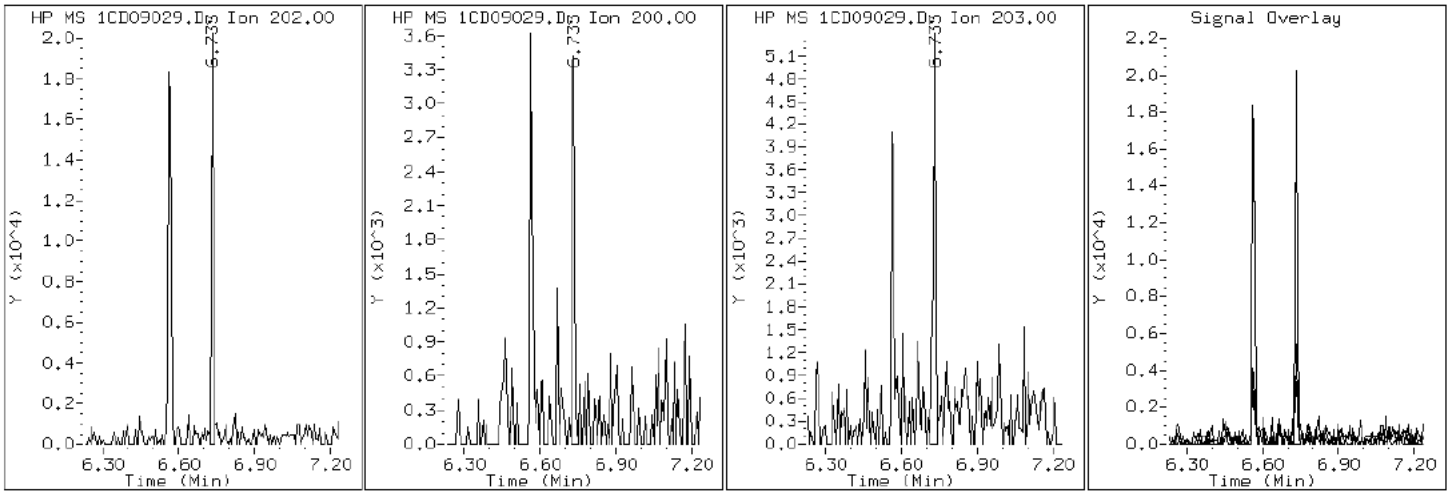
Data File: 1CD09029.D

Date: 09-APR-2013 19:48

Client ID: CV1121C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-53-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD09029.D
Inj. Date and Time: 09-APR-2013 19:48
Instrument ID: BSMC5973.i
Client ID: CV1121C-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/10/2013

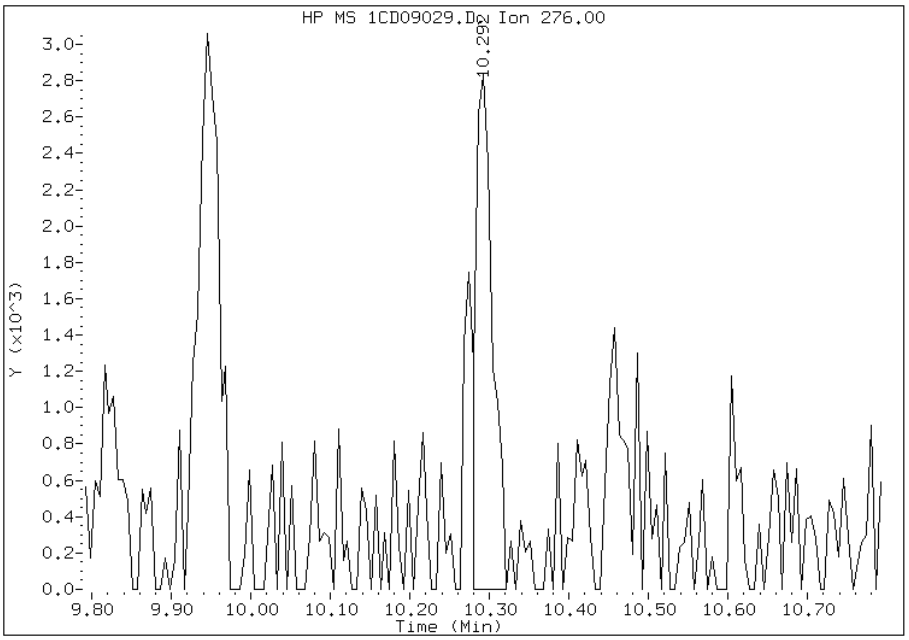
Processing Integration Results

RT: 10.29

Response: 4218

Amount: 0

Conc: 104



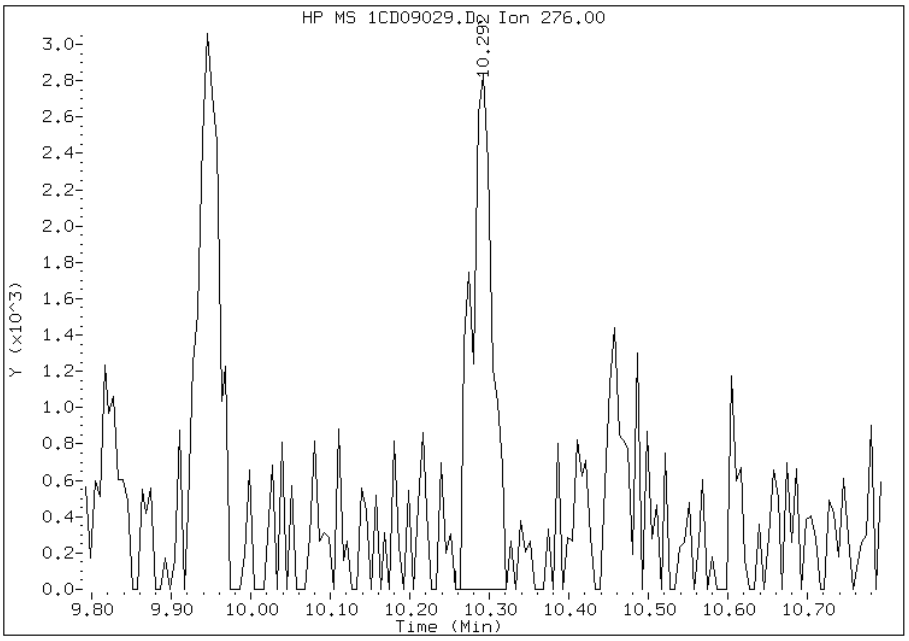
Manual Integration Results

RT: 10.29

Response: 5311

Amount: 0

Conc: 131



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 15:07
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CD09029.D
Inj. Date and Time: 09-APR-2013 19:48
Instrument ID: BSMC5973.i
Client ID: CV1121C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

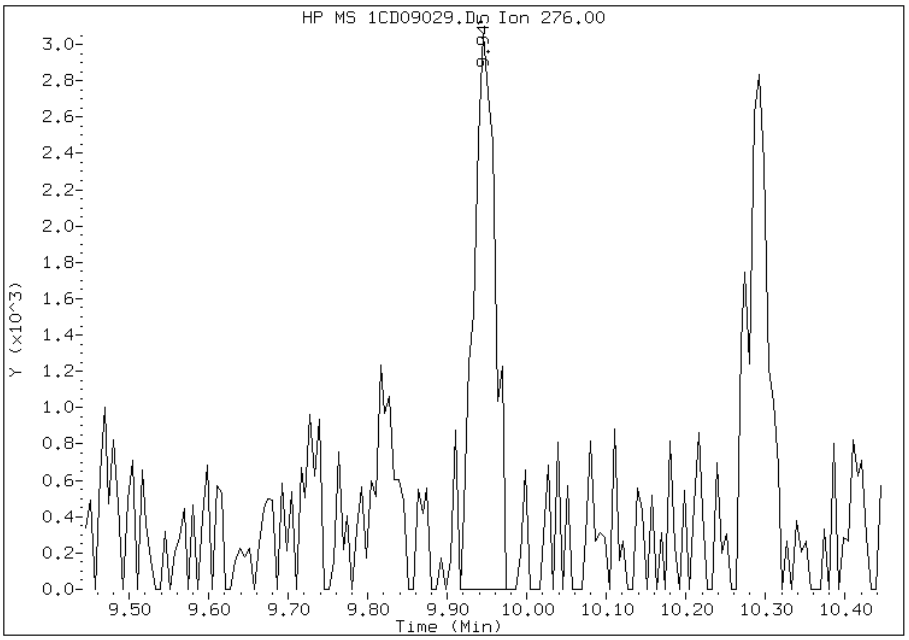
Processing Integration Results

RT: 9.95

Response: 5715

Amount: 0

Conc: 144



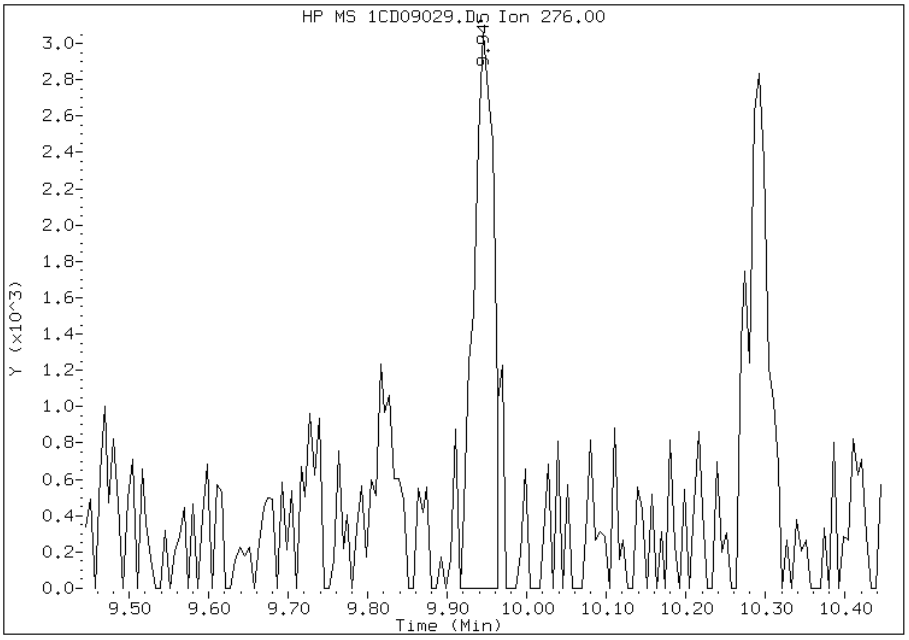
Manual Integration Results

RT: 9.95

Response: 5281

Amount: 0

Conc: 133



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:50
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1122A-CS | Lab Sample ID: 680-88811-54

Matrix: Solid | Lab File ID: 1CD09030.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 10:50

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 14.87(g) | Date Analyzed: 04/09/2013 20:06

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

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

% Moisture: 17.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	21	J	49	6.1
120-12-7	Anthracene	31		10	5.1
56-55-3	Benzo[a]anthracene	190		9.8	4.8
50-32-8	Benzo[a]pyrene	200		13	6.4
205-99-2	Benzo[b]fluoranthene	330		15	7.5
191-24-2	Benzo[g,h,i]perylene	180		24	5.4
207-08-9	Benzo[k]fluoranthene	97		9.8	4.4
218-01-9	Chrysene	310		11	5.5
53-70-3	Dibenz(a,h)anthracene	53		24	5.0
206-44-0	Fluoranthene	300		24	4.9
86-73-7	Fluorene	24	U	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	140		24	8.7
90-12-0	1-Methylnaphthalene	110		49	5.4
91-57-6	2-Methylnaphthalene	110		49	8.7
91-20-3	Naphthalene	65		49	5.4
85-01-8	Phenanthrene	230		9.8	4.8
129-00-0	Pyrene	280		24	4.5

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

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09030.D
Lab Smp Id: 680-88811-A-54-A Client Smp ID: CV1122A-CS
Inj Date : 09-APR-2013 20:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-54-a
Misc Info : 680-88811-A-54-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	14.870	Weight Extracted
M	17.462	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.686	3.686	(1.000)	399800	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	287691	40.0000	
*	10 Phenanthrene-d10	188	5.716	5.716	(1.000)	553880	40.0000	
$	14 o-Terphenyl	230	5.968	5.968	(1.044)	48042	6.03938	492.0695
*	18 Chrysene-d12	240	7.657	7.657	(1.000)	574520	40.0000	
*	23 Perylene-d12	264	8.821	8.827	(1.000)	524547	40.0000	
	2 Naphthalene	128	3.698	3.698	(1.003)	8219	0.80039	65.2130(Q)
	3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	9268	1.32587	108.0278
	4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	8261	1.31341	107.0123
	5 Acenaphthylene	152	4.686	4.686	(0.982)	3079	0.25859	21.0691
	11 Phenanthrene	178	5.733	5.733	(1.003)	45855	2.84256	231.6032
	12 Anthracene	178	5.763	5.768	(1.008)	6178	0.37780	30.7817
	13 Carbazole	167	5.874	5.874	(1.028)	8321	0.59393	48.3915
	15 Fluoranthene	202	6.568	6.568	(1.149)	66625	3.73977	304.7045

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Pyrene	202	6.733	6.733	(0.879)	55622	3.49502	284.7632
17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	37498	2.38821	194.5839
19 Chrysene	228	7.674	7.674	(1.002)	61591	3.76213	306.5266
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	60049	4.04932	329.9262(M)
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.963)	17145	1.19538	97.3960(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	35069	2.51183	204.6561
24 Indeno(1,2,3-cd)pyrene	276	9.951	9.956	(1.128)	23443	1.76784	144.0382(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.974	(1.129)	7964	0.65013	52.9705
26 Benzo(g,h,i)perylene	276	10.298	10.298	(1.167)	29883	2.20796	179.8974(MH)

QC Flag Legend

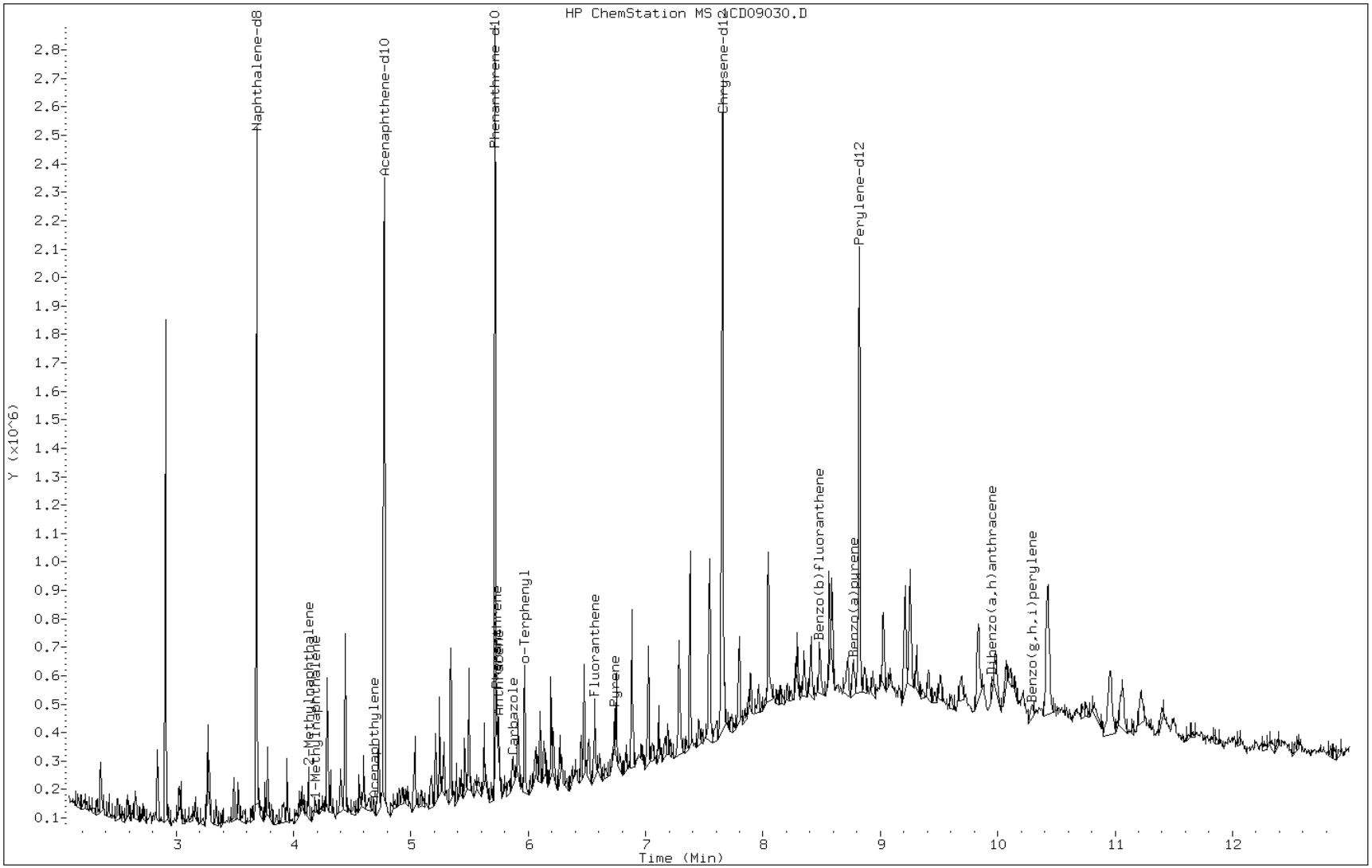
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD09030.D

Date: 09-APR-2013 20:06

Client ID: CV1122A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-54-a Operator: SCC



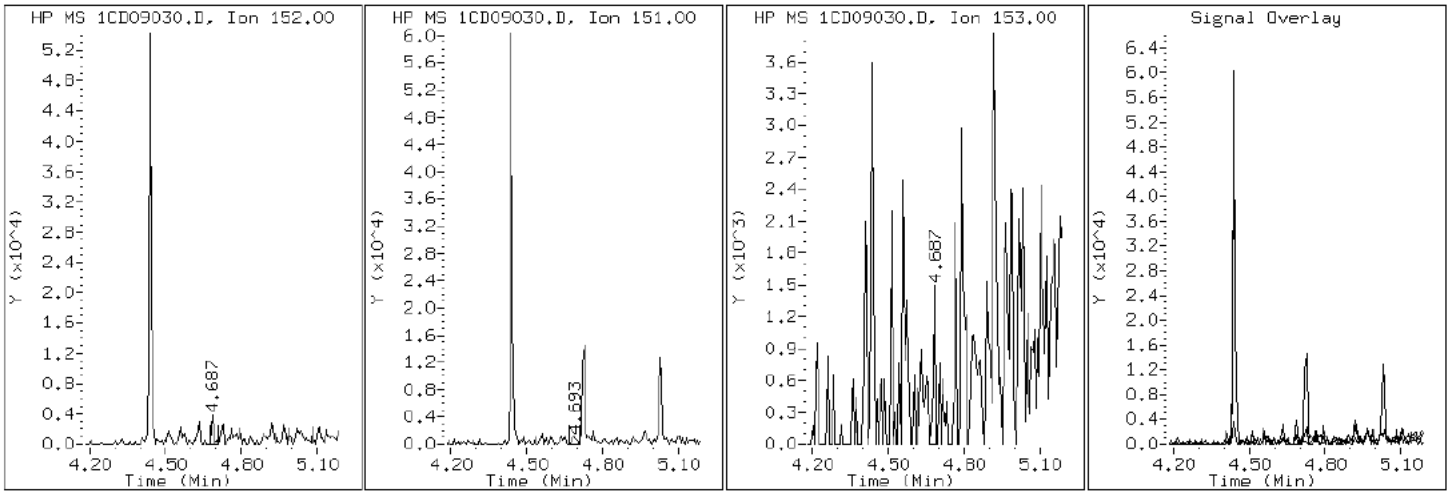
Data File: 1CD09030.D

Date: 09-APR-2013 20:06

Client ID: CV1122A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-54-a Operator: SCC

5 Acenaphthylene



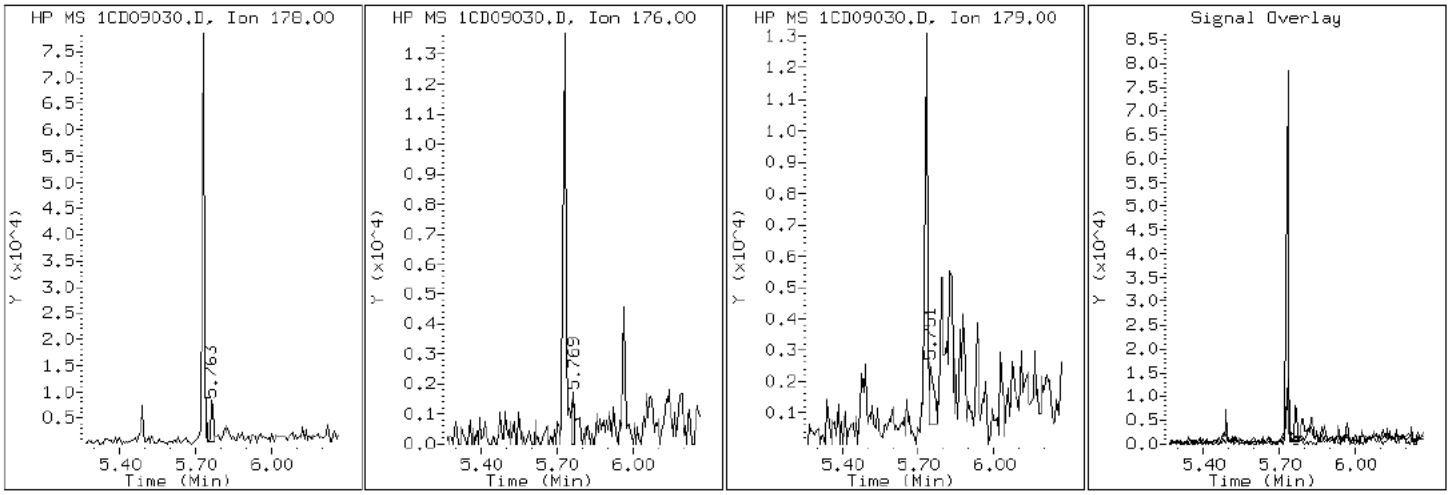
Data File: 1CD09030.D

Date: 09-APR-2013 20:06

Client ID: CV1122A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-54-a Operator: SCC

12 Anthracene



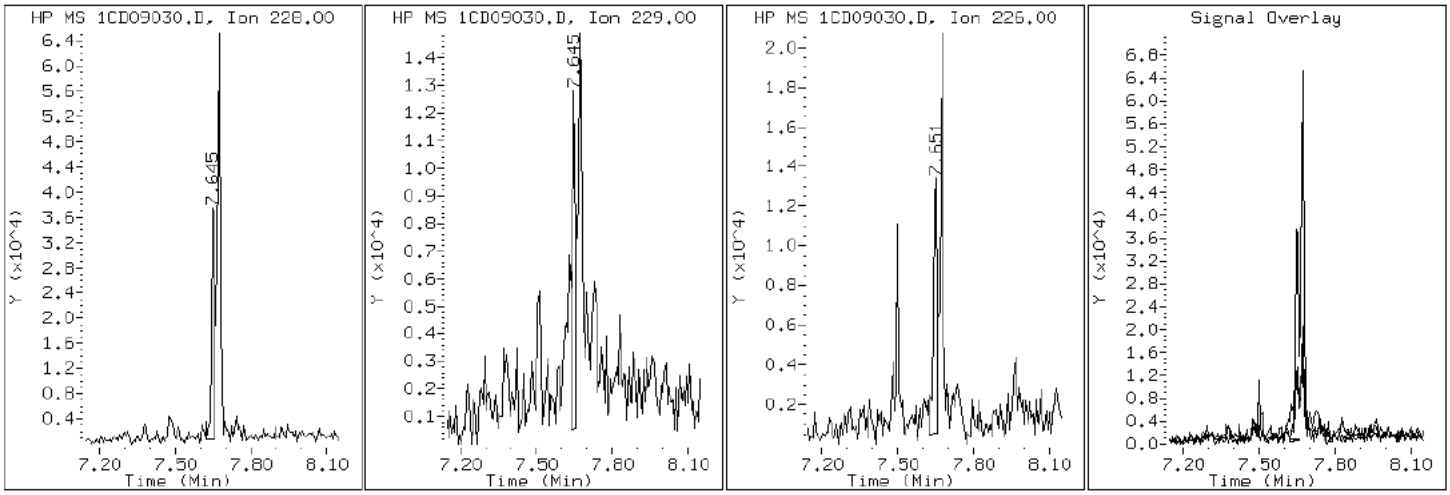
Data File: 1CD09030.D

Date: 09-APR-2013 20:06

Client ID: CV1122A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-54-a Operator: SCC

17 Benzo(a)anthracene



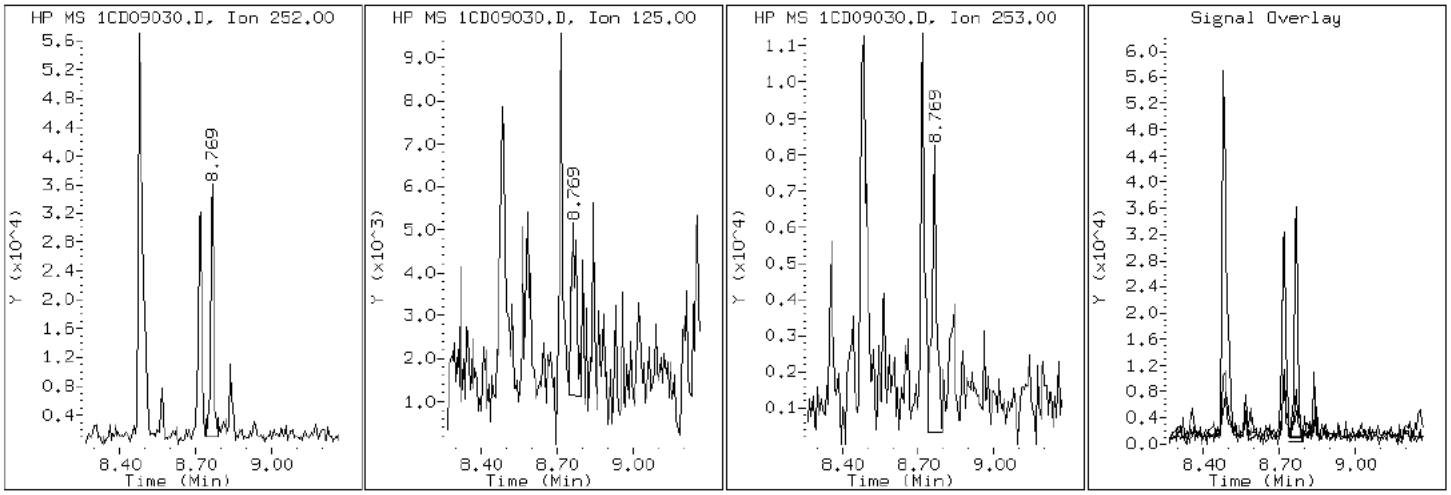
Data File: 1CD09030.D

Date: 09-APR-2013 20:06

Client ID: CV1122A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-54-a Operator: SCC

22 Benzo(a)pyrene



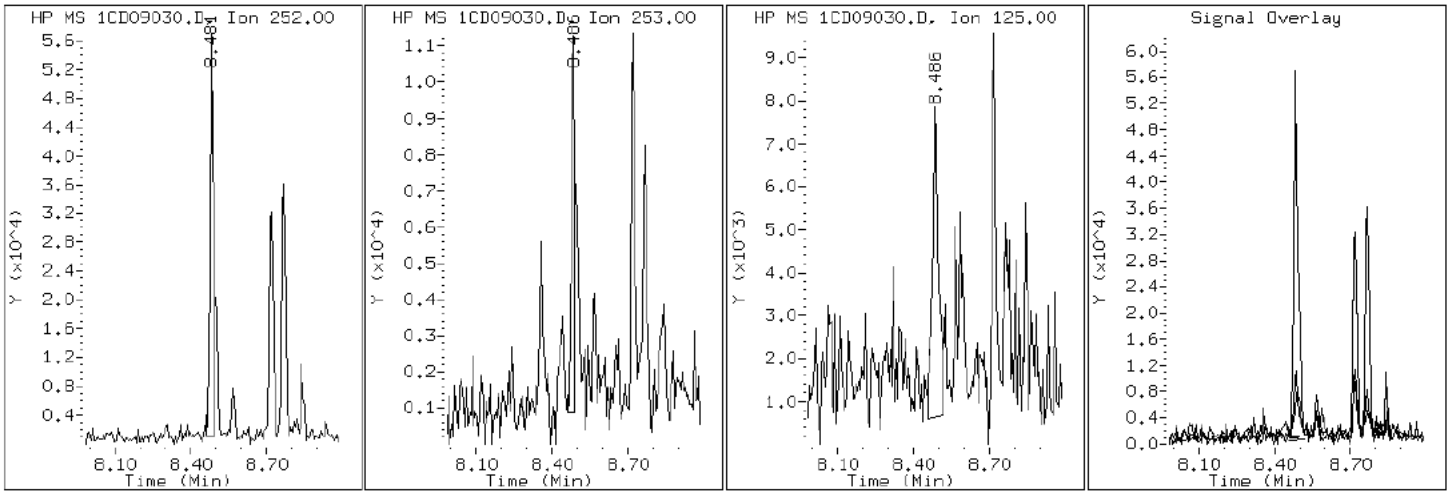
Data File: 1CD09030.D

Date: 09-APR-2013 20:06

Client ID: CV1122A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-54-a Operator: SCC

20 Benzo(b)fluoranthene



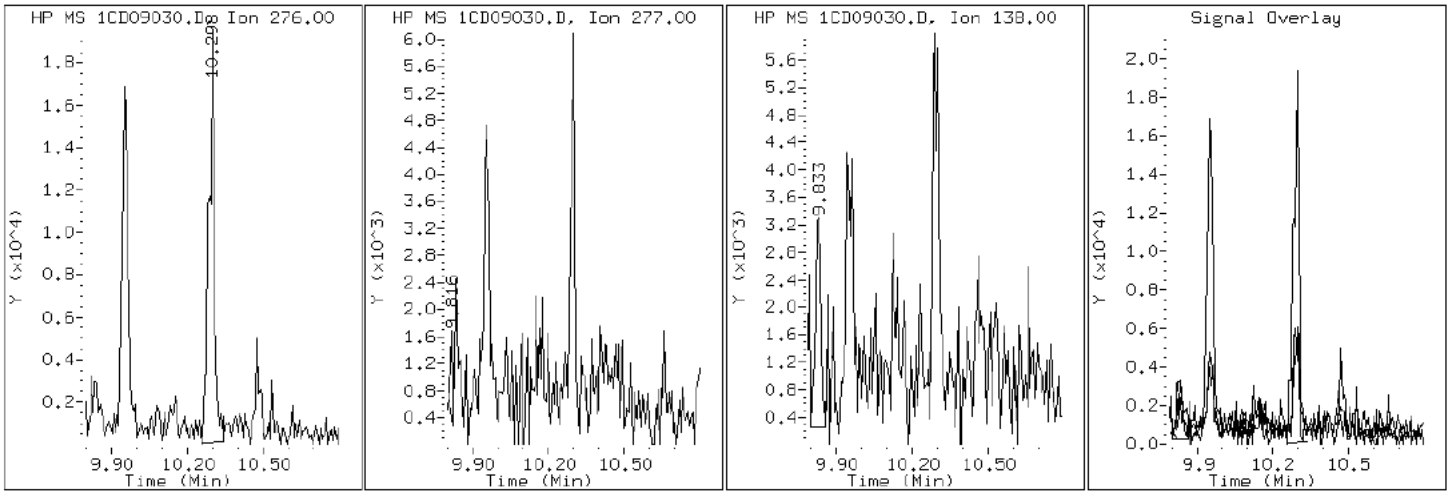
Data File: 1CD09030.D

Date: 09-APR-2013 20:06

Client ID: CV1122A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-54-a Operator: SCC

26 Benzo(g,h,i)perylene



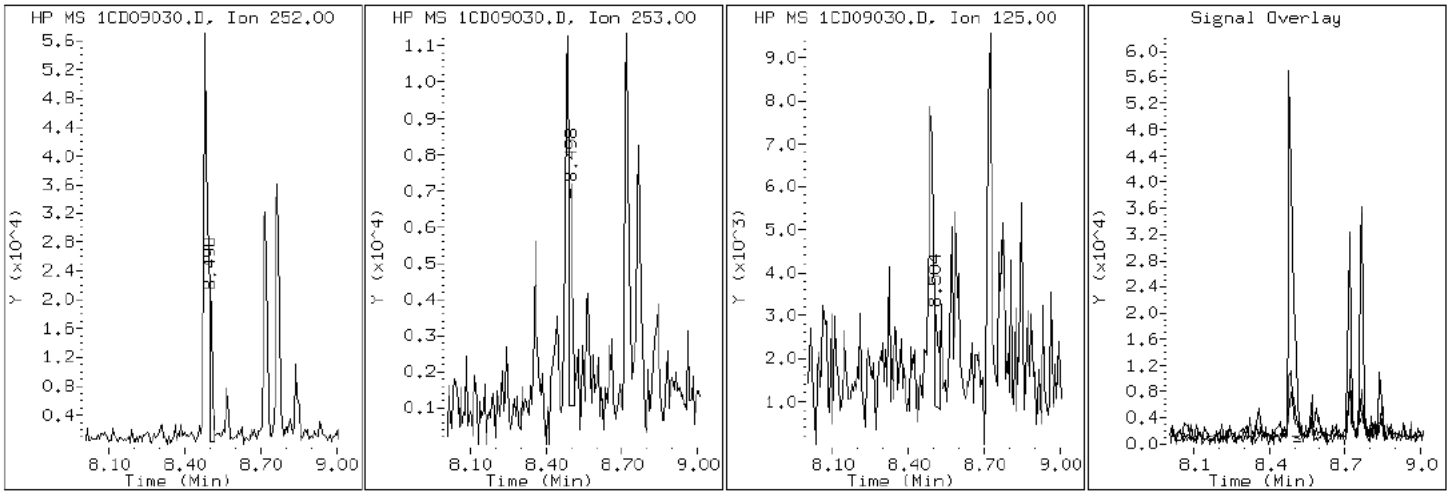
Data File: 1CD09030.D

Date: 09-APR-2013 20:06

Client ID: CV1122A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-54-a Operator: SCC

21 Benzo(k)fluoranthene



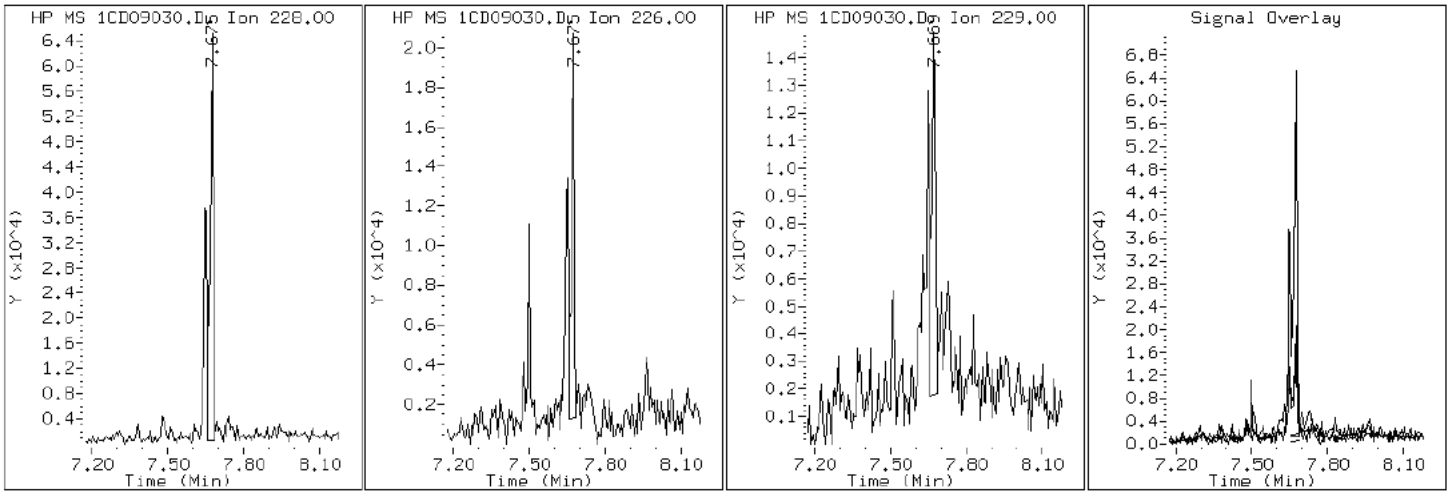
Data File: 1CD09030.D

Date: 09-APR-2013 20:06

Client ID: CV1122A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-54-a Operator: SCC

19 Chrysene



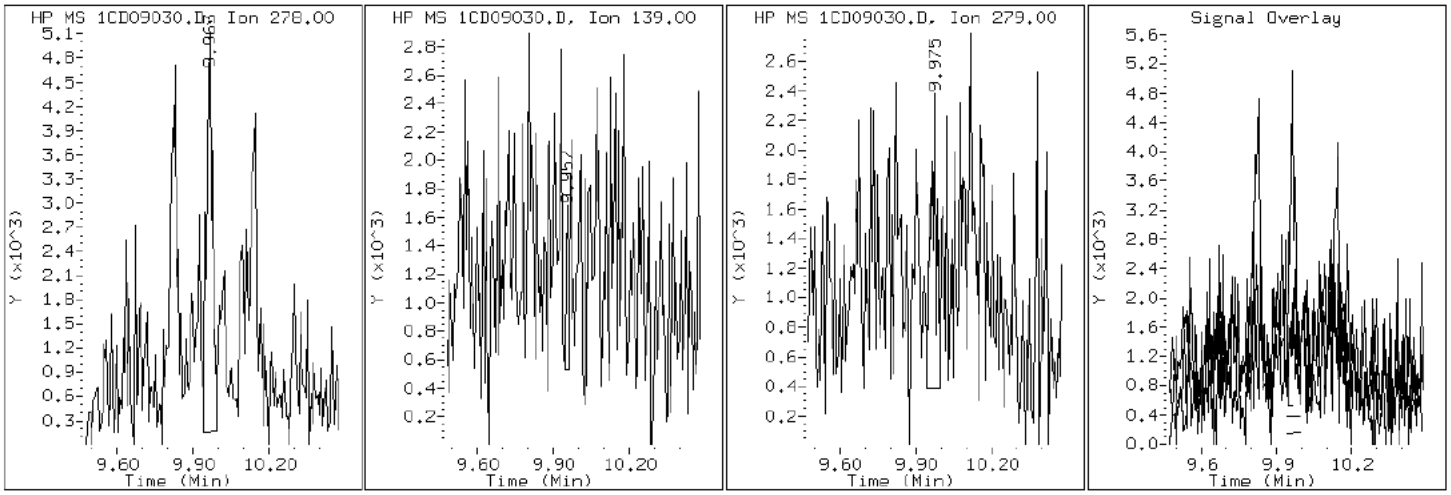
Data File: 1CD09030.D

Date: 09-APR-2013 20:06

Client ID: CV1122A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-54-a Operator: SCC

25 Dibenzo(a,h)anthracene



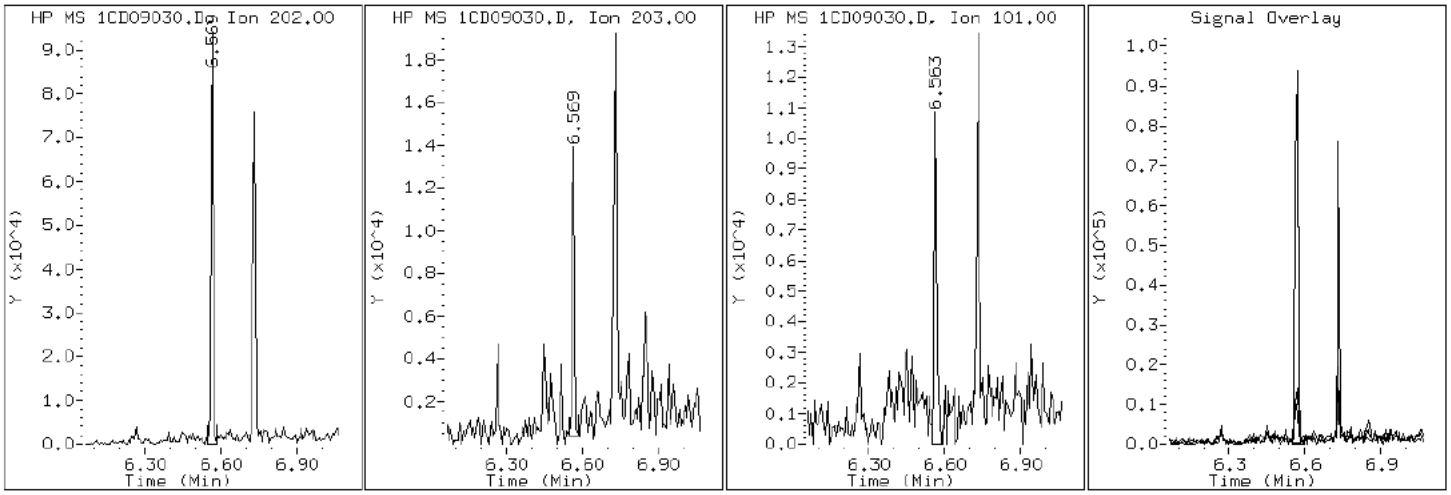
Data File: 1CD09030.D

Date: 09-APR-2013 20:06

Client ID: CV1122A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-54-a Operator: SCC

15 Fluoranthene



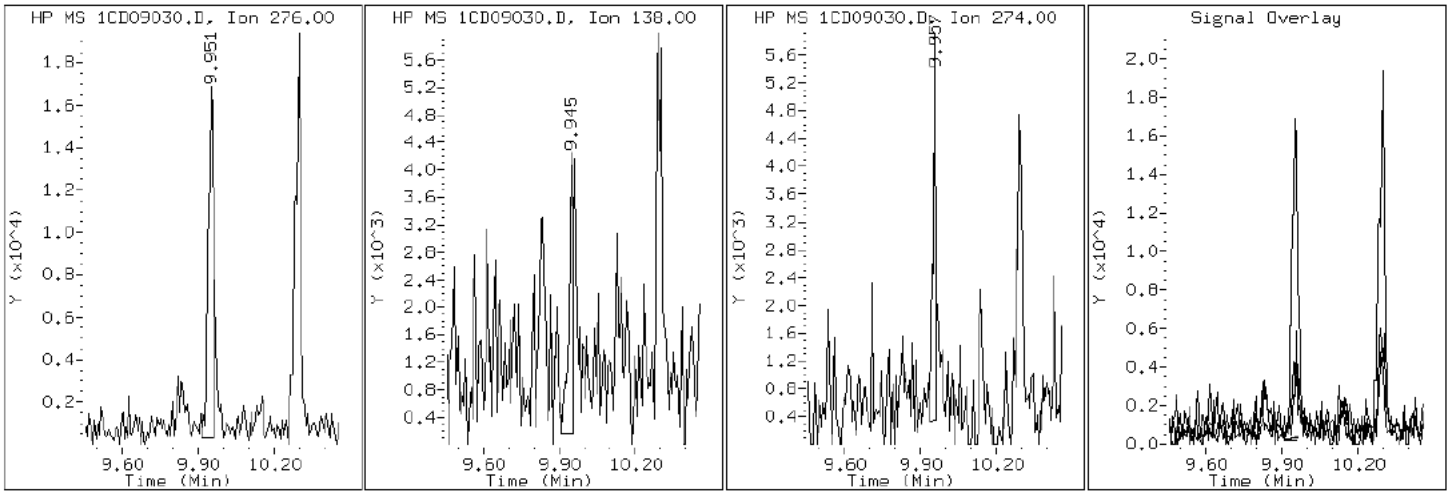
Data File: 1CD09030.D

Date: 09-APR-2013 20:06

Client ID: CV1122A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-54-a Operator: SCC

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



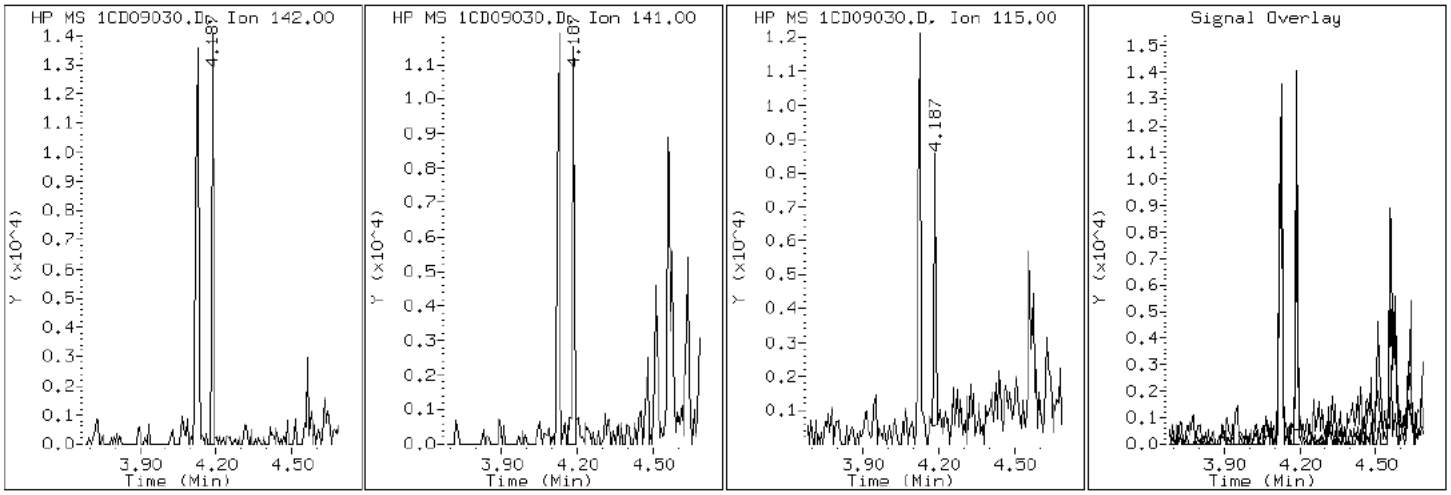
Data File: 1CD09030.D

Date: 09-APR-2013 20:06

Client ID: CV1122A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-54-a Operator: SCC

4 1-Methylnaphthalene



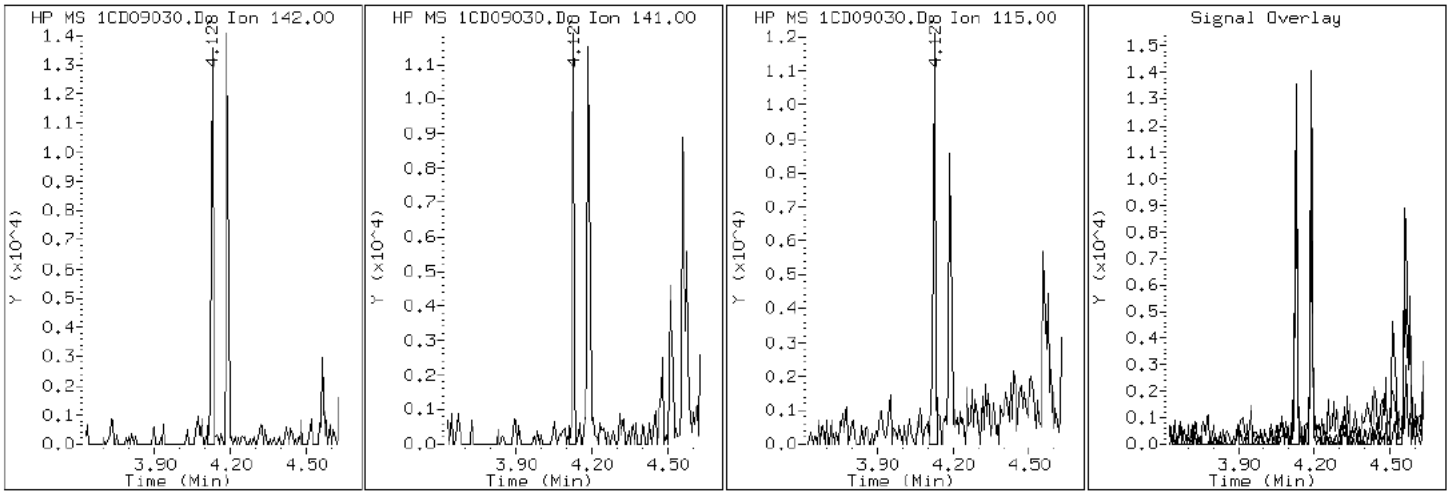
Data File: 1CD09030.D

Date: 09-APR-2013 20:06

Client ID: CV1122A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-54-a Operator: SCC

3 2-Methylnaphthalene



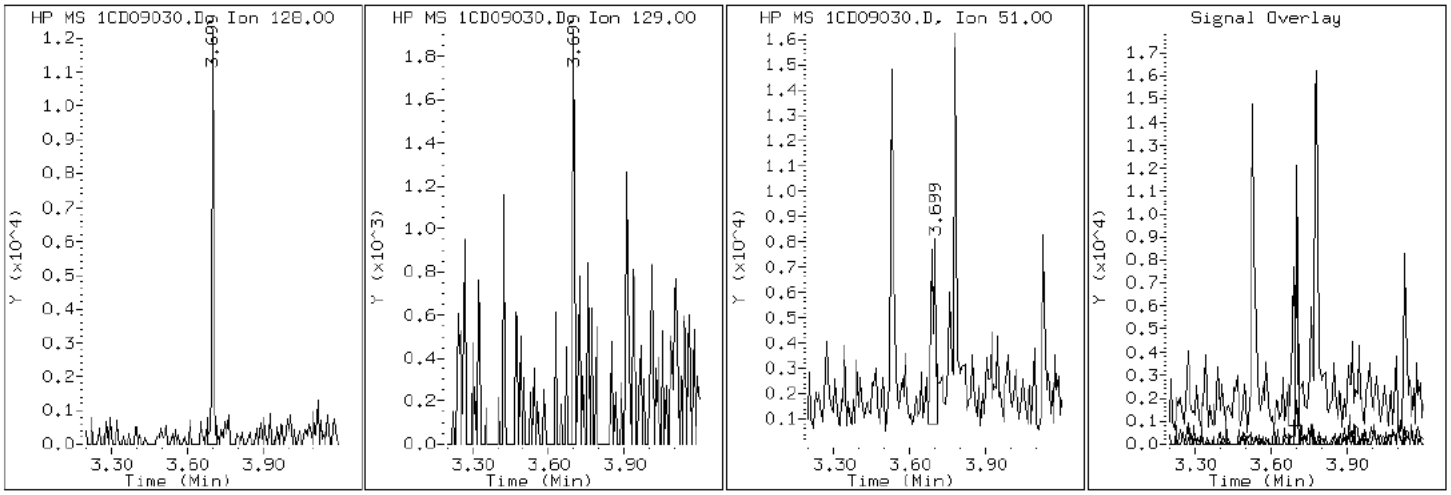
Data File: 1CD09030.D

Date: 09-APR-2013 20:06

Client ID: CV1122A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-54-a Operator: SCC

2 Naphthalene



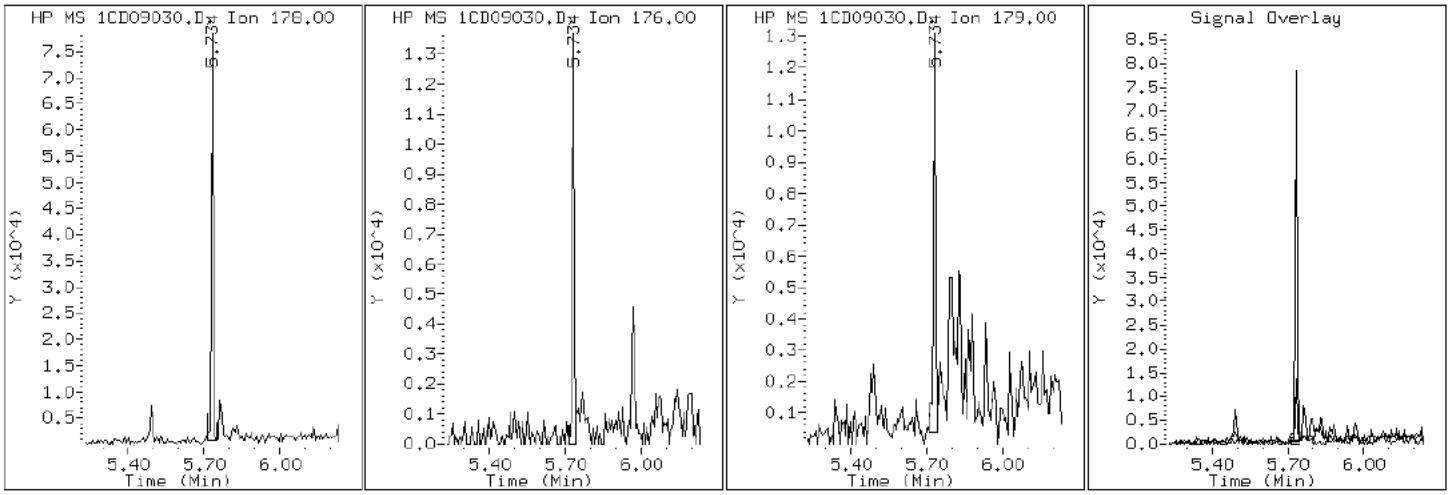
Data File: 1CD09030.D

Date: 09-APR-2013 20:06

Client ID: CV1122A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-54-a Operator: SCC

11 Phenanthrene



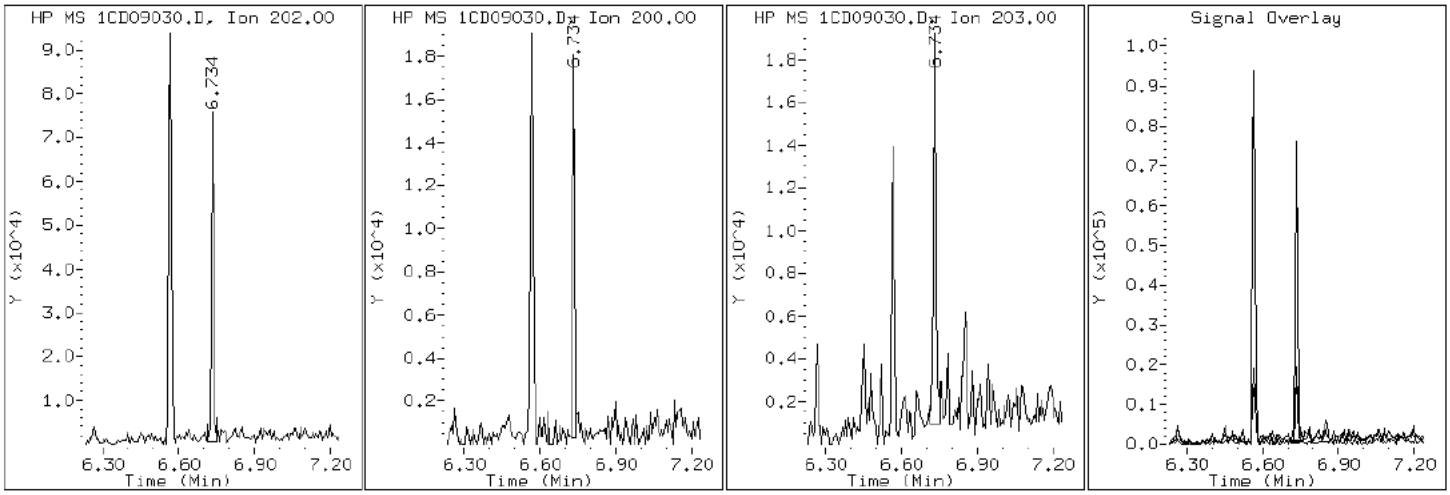
Data File: 1CD09030.D

Date: 09-APR-2013 20:06

Client ID: CV1122A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-54-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD09030.D
Inj. Date and Time: 09-APR-2013 20:06
Instrument ID: BSMC5973.i
Client ID: CV1122A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

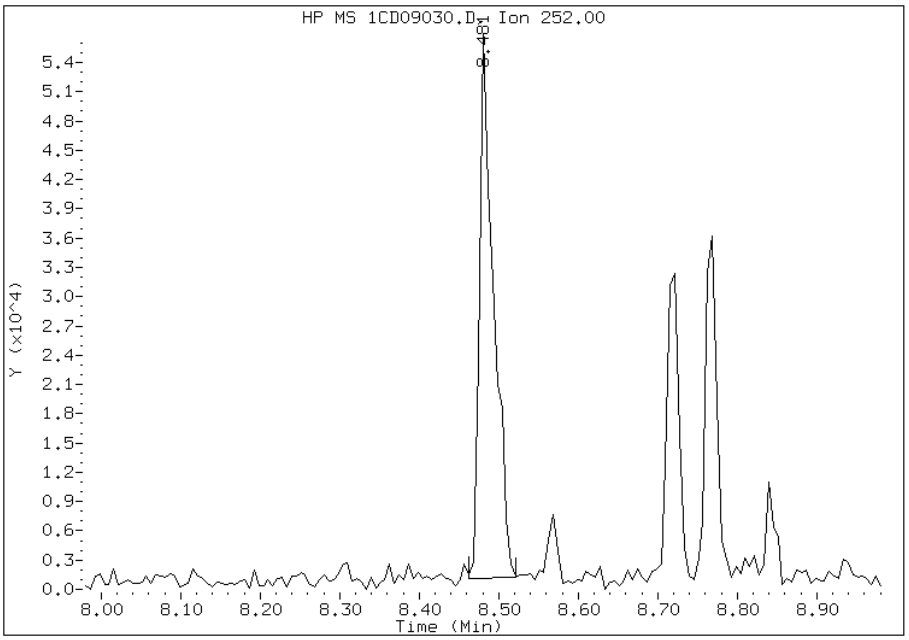
Processing Integration Results

RT: 8.48

Response: 68780

Amount: 5

Conc: 378



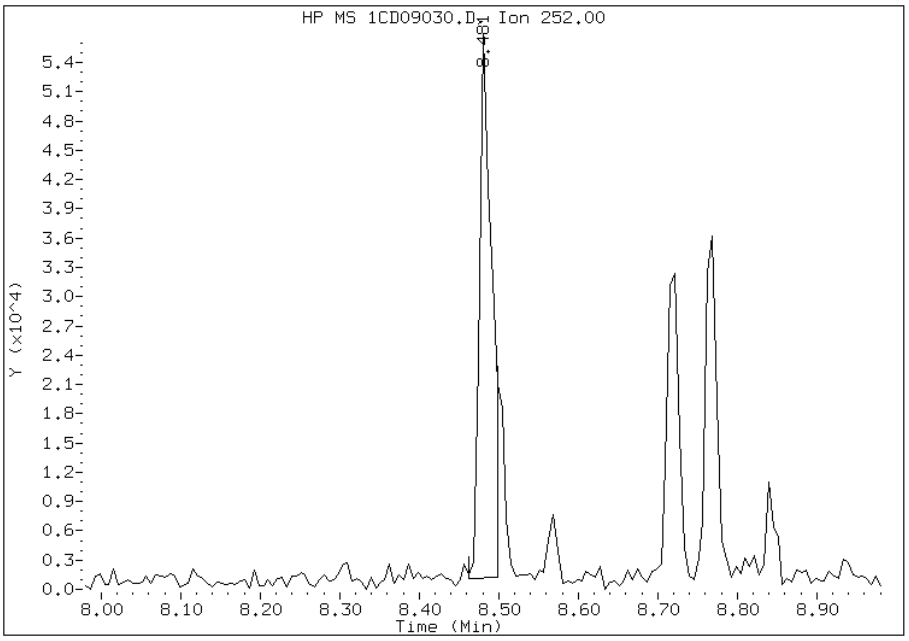
Manual Integration Results

RT: 8.48

Response: 60049

Amount: 4

Conc: 330



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:47
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09030.D
Inj. Date and Time: 09-APR-2013 20:06
Instrument ID: BSMC5973.i
Client ID: CV1122A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/10/2013

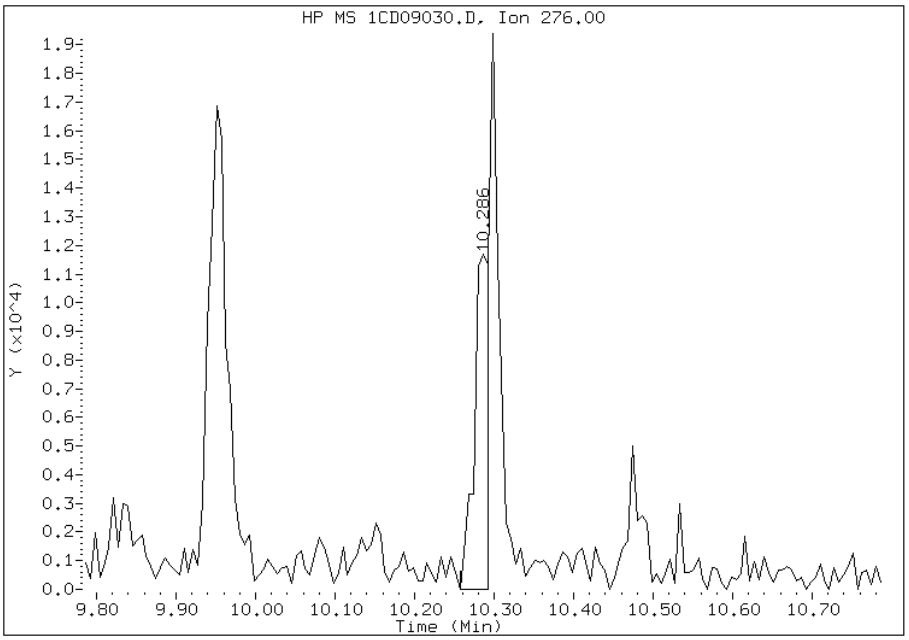
Processing Integration Results

RT: 10.29

Response: 14881

Amount: 1

Conc: 90



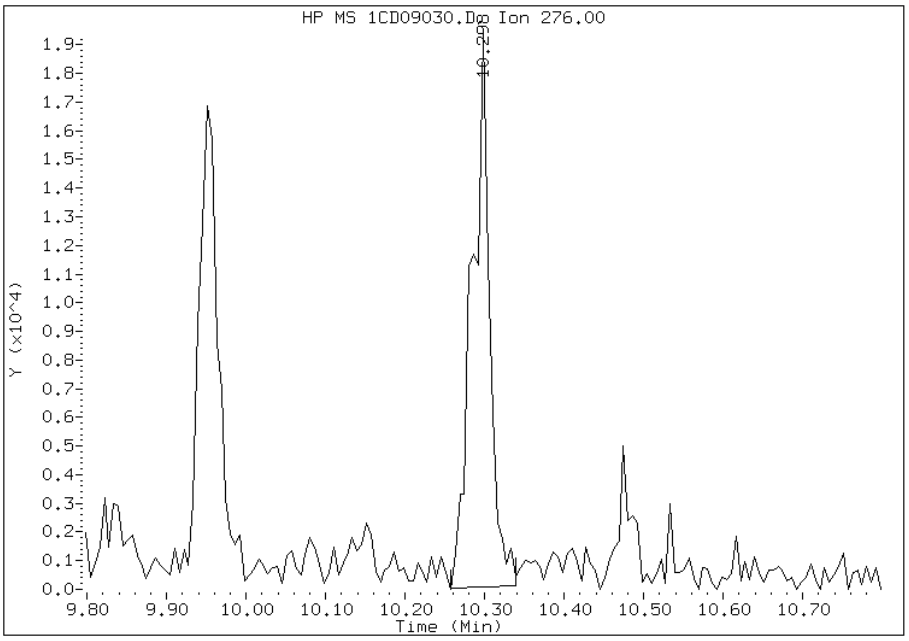
Manual Integration Results

RT: 10.30

Response: 29883

Amount: 2

Conc: 180



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 15:08
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CD09030.D
Inj. Date and Time: 09-APR-2013 20:06
Instrument ID: BSMC5973.i
Client ID: CV1122A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

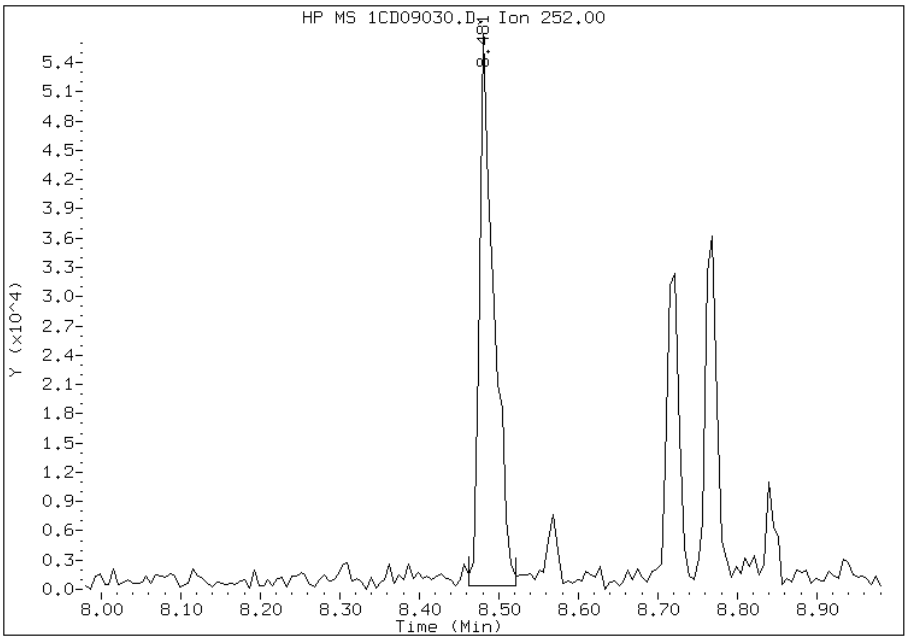
Processing Integration Results

RT: 8.48

Response: 71922

Amount: 5

Conc: 409



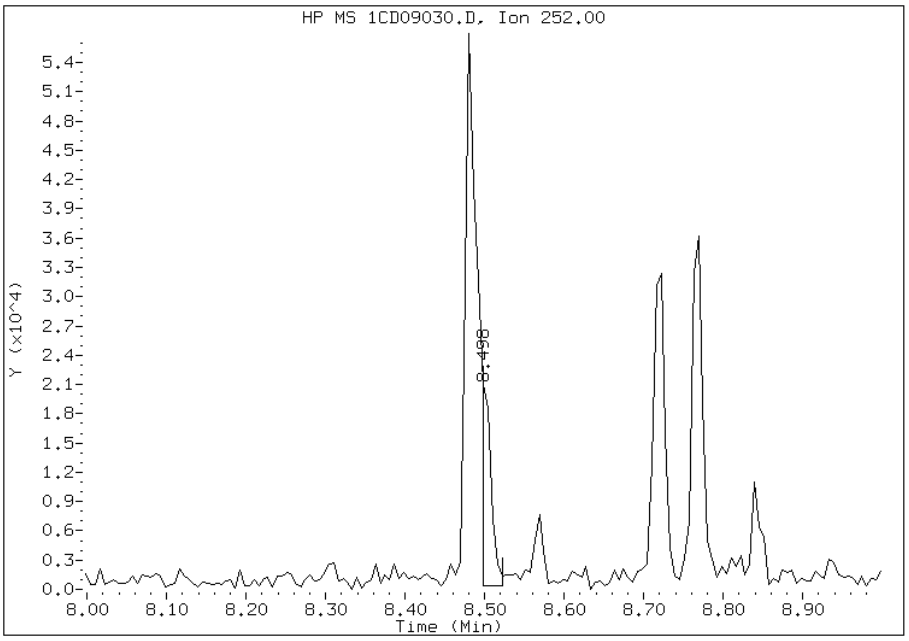
Manual Integration Results

RT: 8.50

Response: 17145

Amount: 1

Conc: 97



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:48
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09030.D
Inj. Date and Time: 09-APR-2013 20:06
Instrument ID: BSMC5973.i
Client ID: CV1122A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

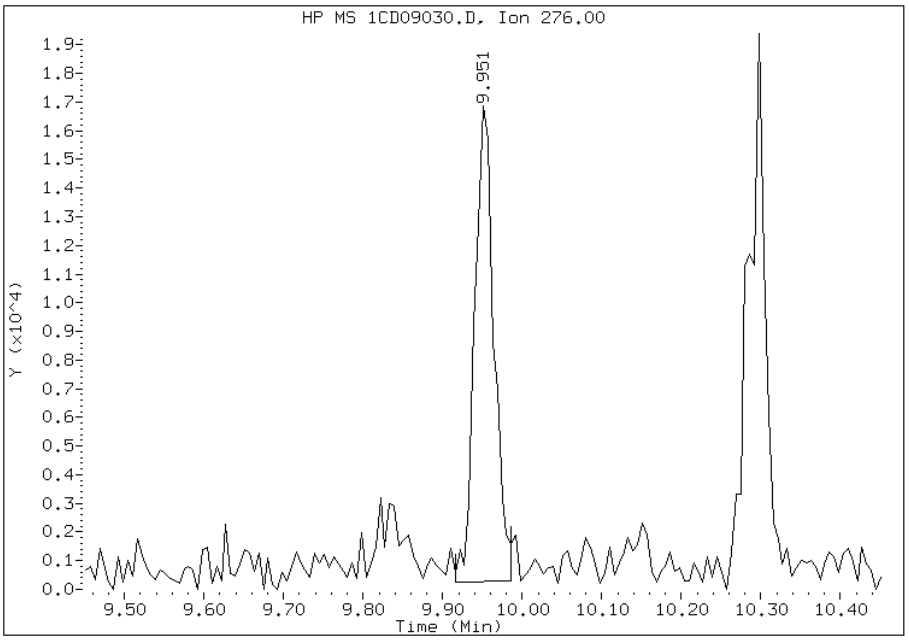
Processing Integration Results

RT: 9.95

Response: 27819

Amount: 2

Conc: 171



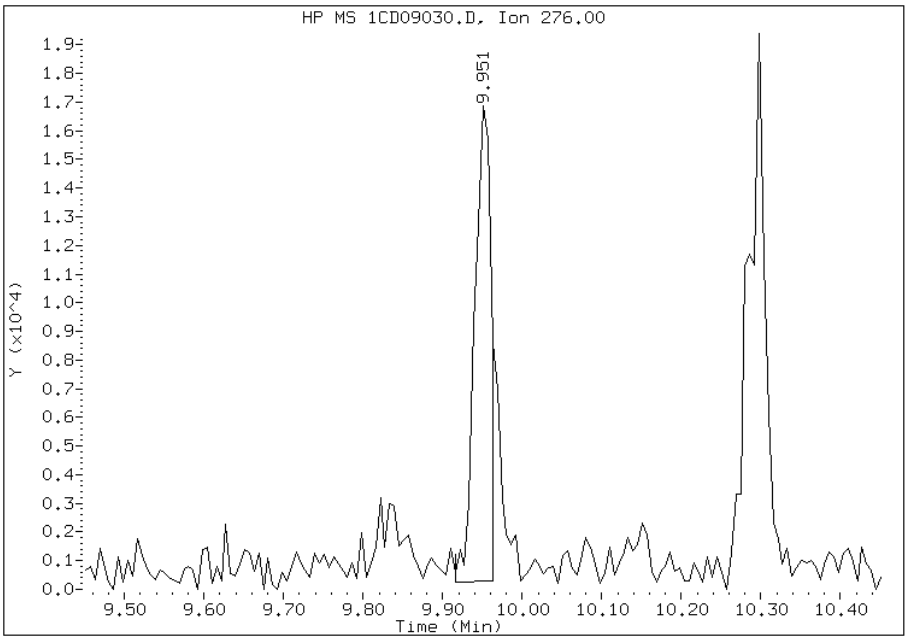
Manual Integration Results

RT: 9.95

Response: 23443

Amount: 2

Conc: 144



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1122B-CS | Lab Sample ID: 680-88811-55

Matrix: Solid | Lab File ID: 1CD09031.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 11:00

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.14(g) | Date Analyzed: 04/09/2013 20:24

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

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

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	20	J	48	6.0
120-12-7	Anthracene	19		10	5.1
56-55-3	Benzo[a]anthracene	93		9.7	4.7
50-32-8	Benzo[a]pyrene	61		13	6.3
205-99-2	Benzo[b]fluoranthene	140		15	7.4
191-24-2	Benzo[g,h,i]perylene	70		24	5.3
207-08-9	Benzo[k]fluoranthene	42		9.7	4.3
218-01-9	Chrysene	130		11	5.4
53-70-3	Dibenz(a,h)anthracene	17	J	24	4.9
206-44-0	Fluoranthene	110		24	4.8
86-73-7	Fluorene	11	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	54		24	8.6
90-12-0	1-Methylnaphthalene	64		48	5.3
91-57-6	2-Methylnaphthalene	55		48	8.6
91-20-3	Naphthalene	65		48	5.3
85-01-8	Phenanthrene	94		9.7	4.7
129-00-0	Pyrene	120		24	4.5

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

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09031.D
Lab Smp Id: 680-88811-A-55-A Client Smp ID: CV1122B-CS
Inj Date : 09-APR-2013 20:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-55-a
Misc Info : 680-88811-A-55-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	15.140	Weight Extracted
M	17.865	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.686	3.686	(1.000)	401128	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	304796	40.0000	
*	10 Phenanthrene-d10	188	5.715	5.716	(1.000)	546805	40.0000	
$	14 o-Terphenyl	230	5.968	5.968	(1.044)	43585	5.60876	451.0398
*	18 Chrysene-d12	240	7.651	7.657	(1.000)	562133	40.0000	
*	23 Perylene-d12	264	8.815	8.827	(1.000)	521214	40.0000	
	2 Naphthalene	128	3.698	3.698	(1.003)	8355	0.81094	65.2132
	3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	4787	0.68256	54.8891(Q)
	4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	5001	0.79247	63.7281
	5 Acenaphthylene	152	4.686	4.686	(0.982)	3094	0.24527	19.7237
	9 Fluorene	166	5.115	5.110	(1.071)	1473	0.14142	11.3726(QMH)
	11 Phenanthrene	178	5.733	5.733	(1.003)	18657	1.17152	94.2099
	12 Anthracene	178	5.762	5.768	(1.008)	3750	0.23229	18.6798
	13 Carbazole	167	5.874	5.874	(1.028)	2888	0.20880	16.7914(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.568	(1.149)	24262	1.37949	110.9341
16 Pyrene	202	6.733	6.733	(0.880)	23491	1.50859	121.3161
17 Benzo(a)anthracene	228	7.645	7.645	(0.999)	16591	1.15425	92.8210
19 Chrysene	228	7.674	7.674	(1.003)	25098	1.56683	125.9998
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.962)	26285	1.78383	143.4502
21 Benzo(k)fluoranthene	252	8.503	8.509	(0.965)	7356	0.51615	41.5075(Q)
22 Benzo(a)pyrene	252	8.762	8.768	(0.994)	10455	0.75363	60.6048
24 Indeno(1,2,3-cd)pyrene	276	9.944	9.956	(1.128)	8815	0.66899	53.7983
25 Dibenzo(a,h)anthracene	278	9.968	9.974	(1.131)	2591	0.21287	17.1180
26 Benzo(g,h,i)perylene	276	10.297	10.298	(1.168)	11736	0.87268	70.1783

QC Flag Legend

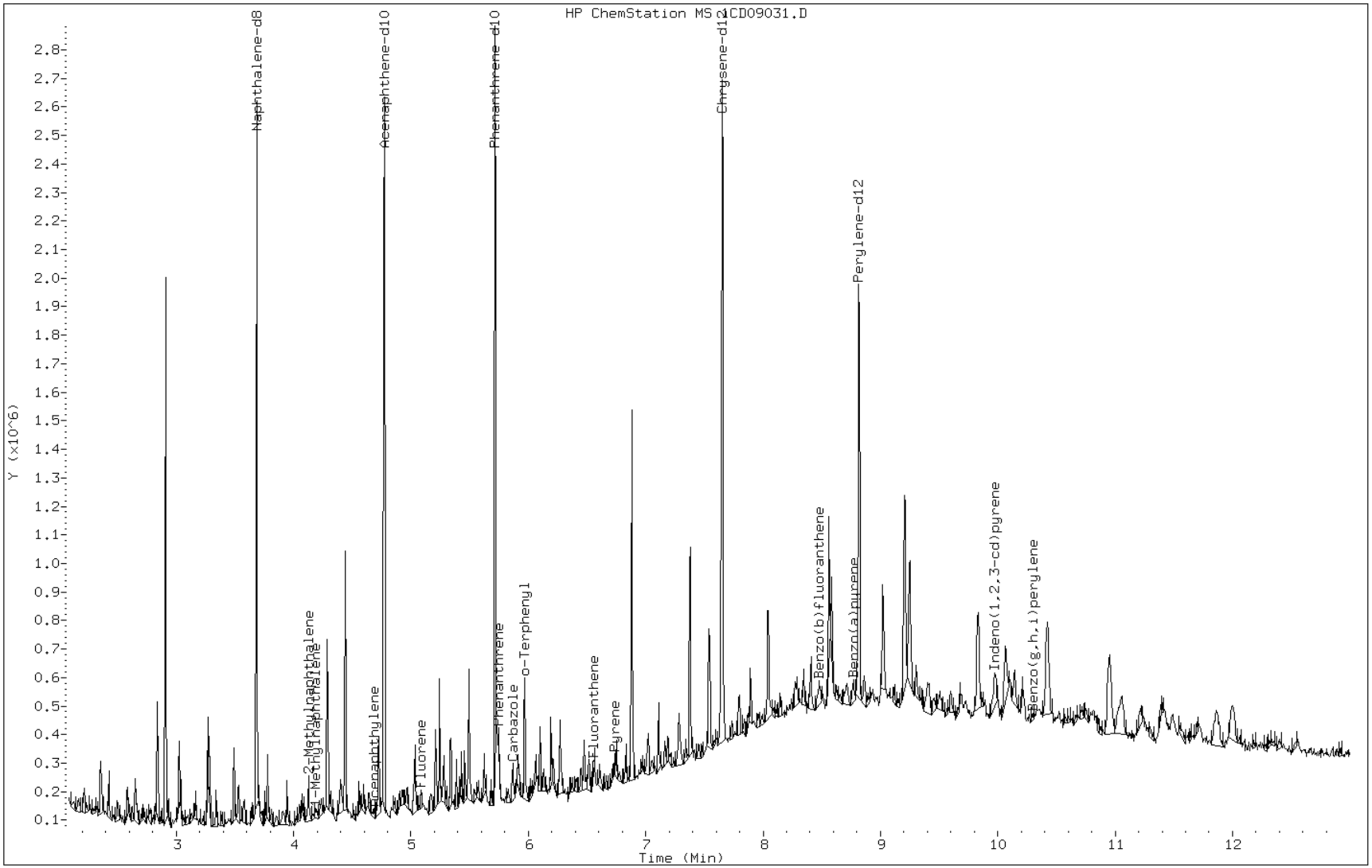
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC



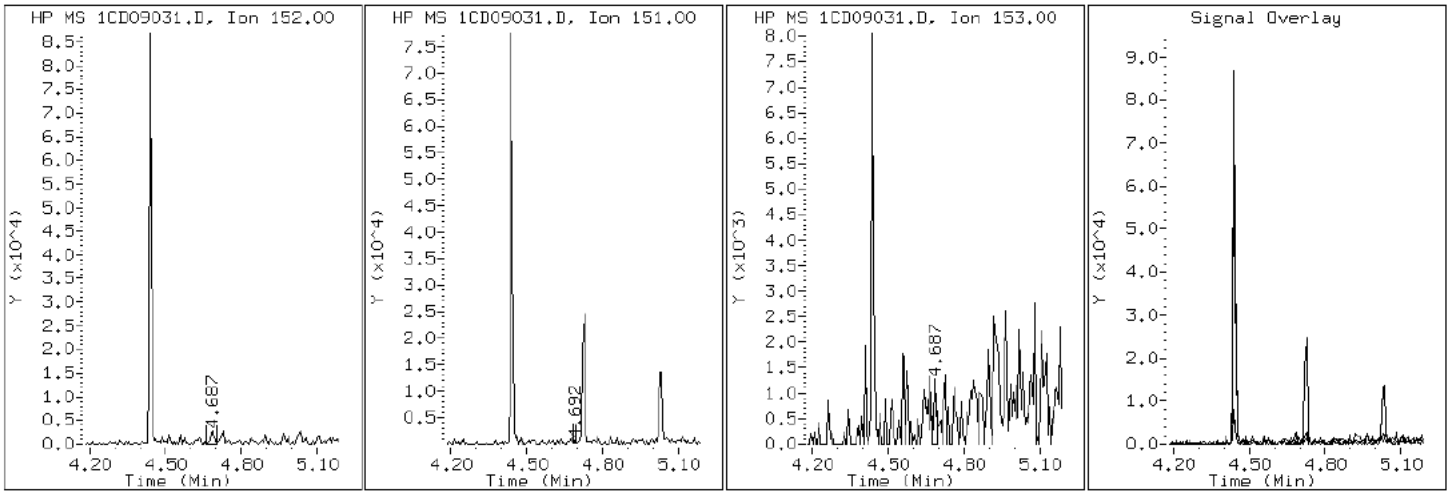
Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC

5 Acenaphthylene



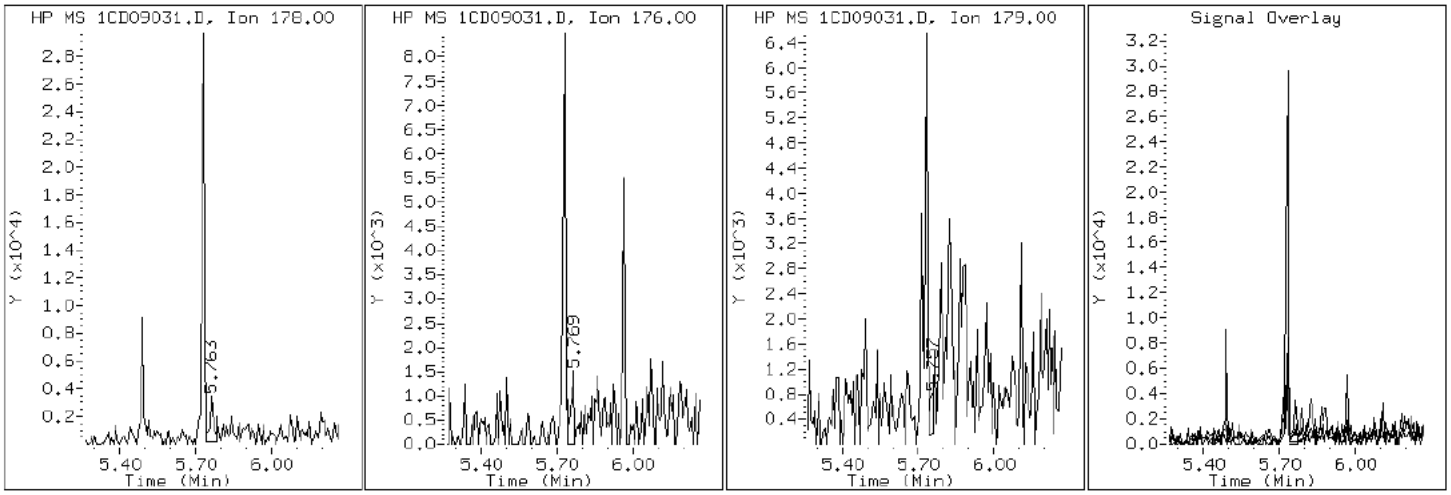
Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC

12 Anthracene



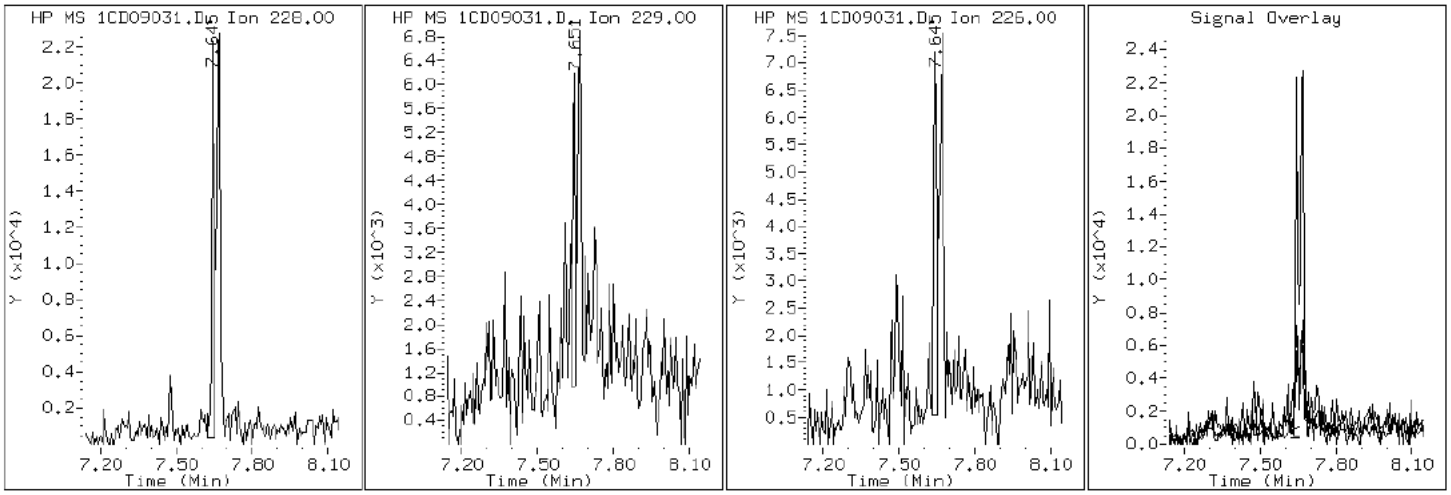
Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC

17 Benzo(a)anthracene



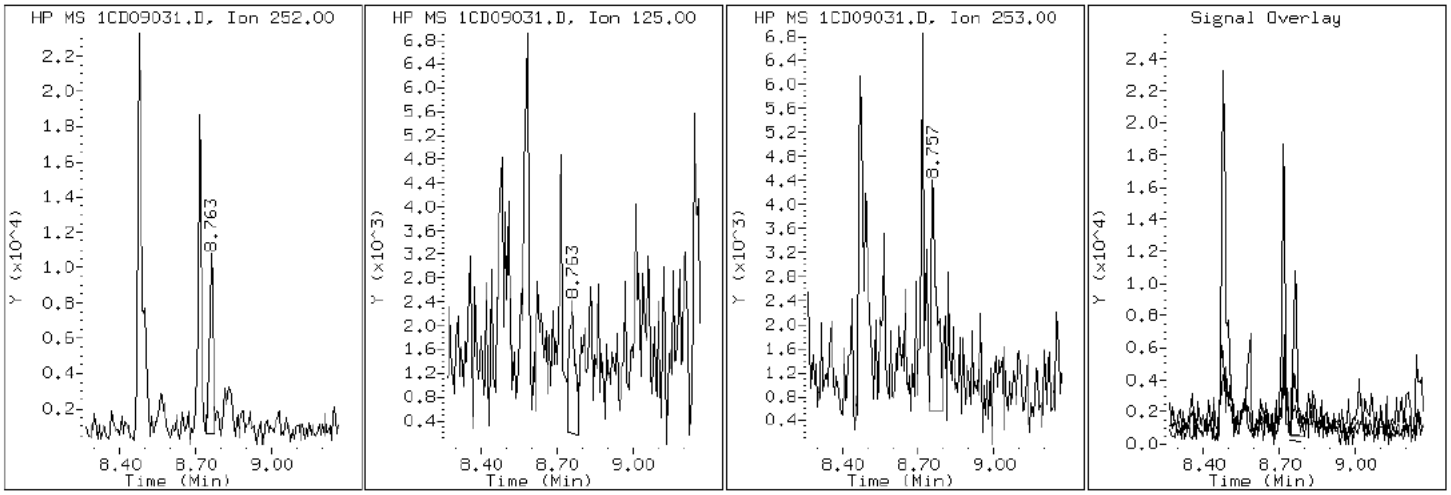
Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC

22 Benzo(a)pyrene



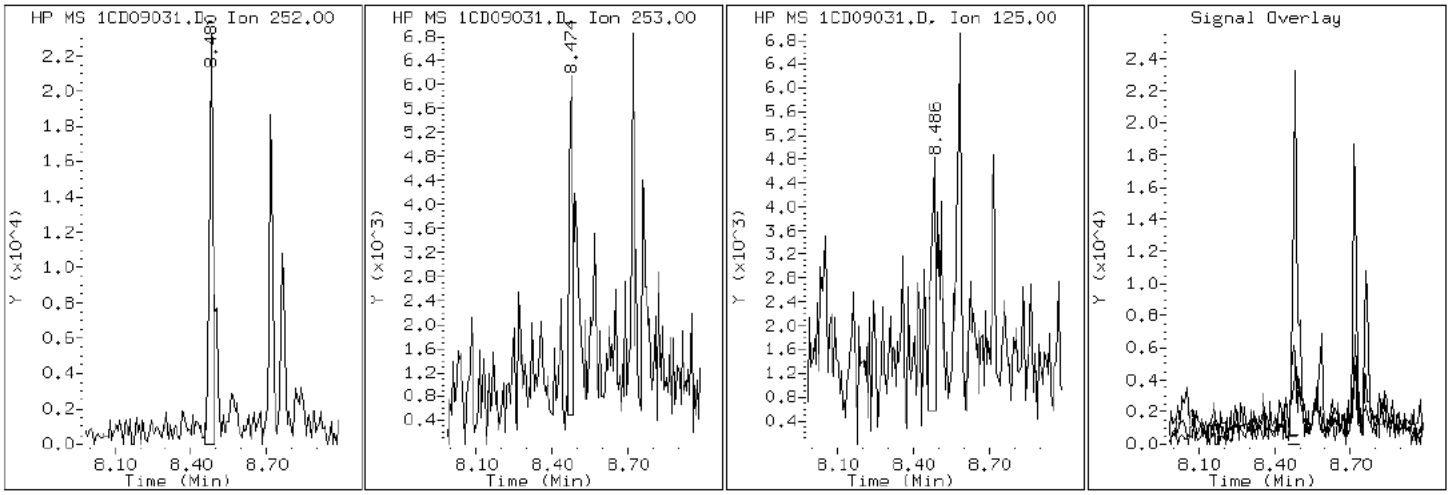
Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC

20 Benzo(b)fluoranthene



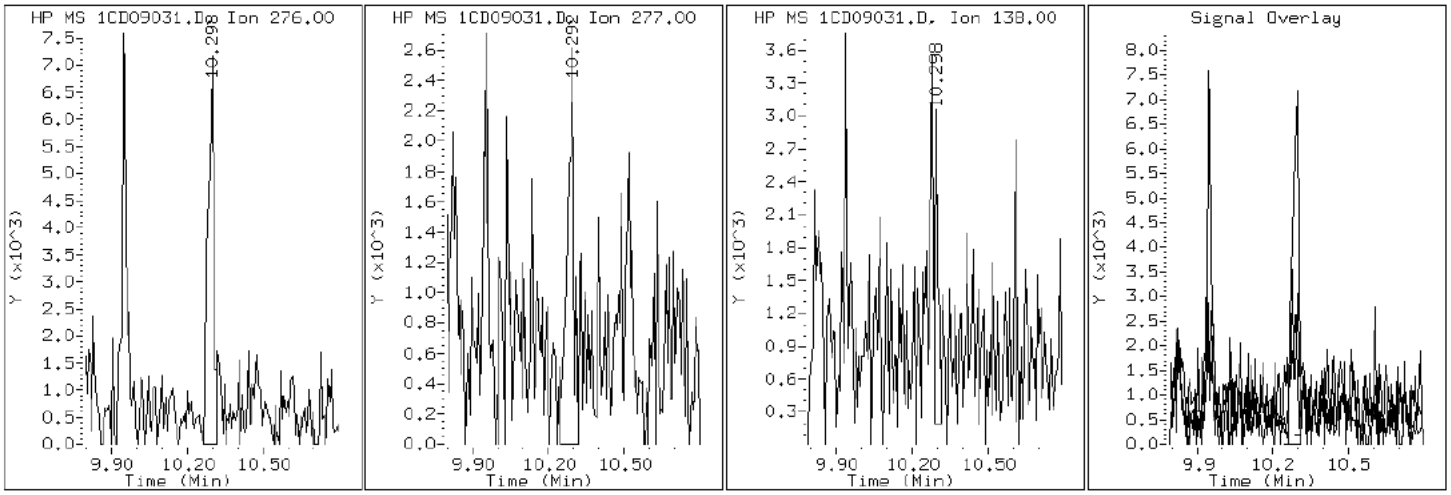
Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC

26 Benzo(g,h,i)perylene



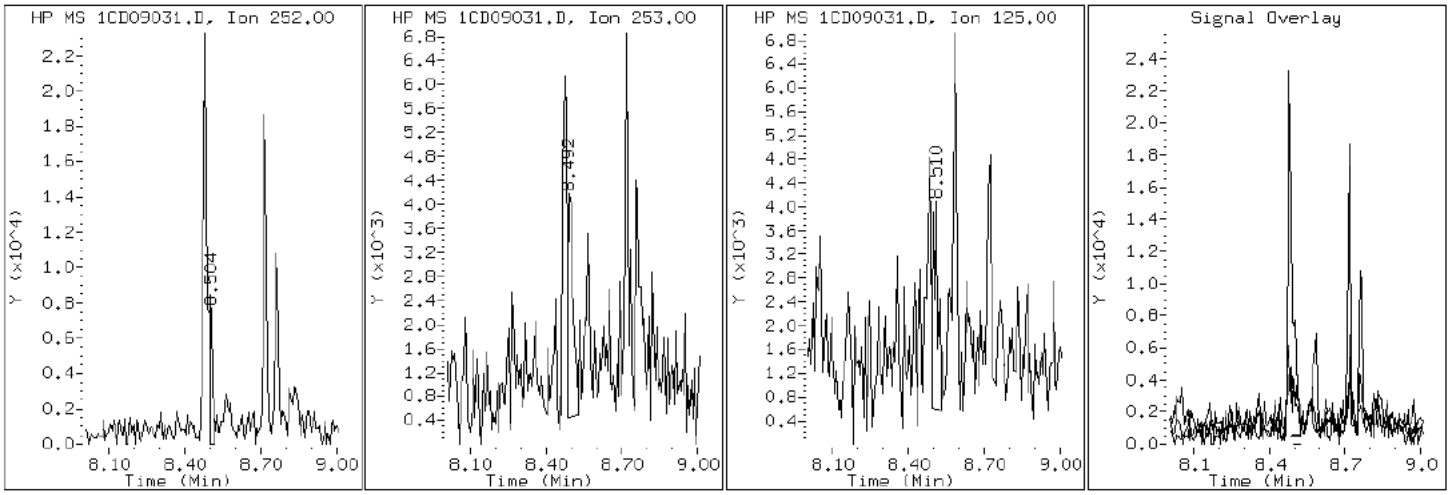
Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC

21 Benzo(k)fluoranthene



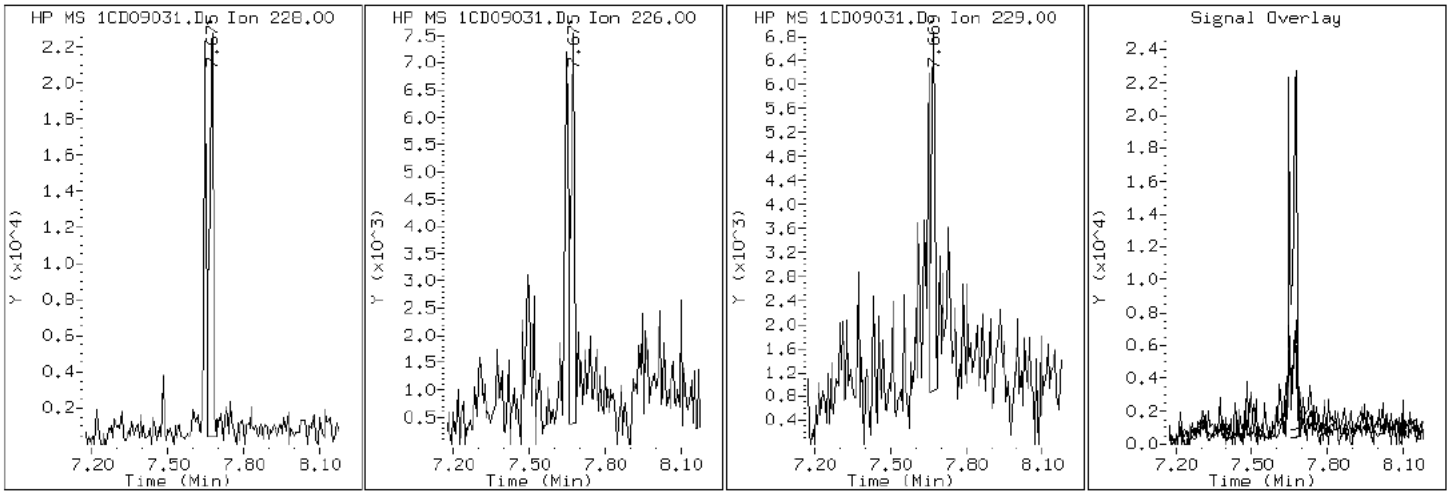
Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC

19 Chrysene



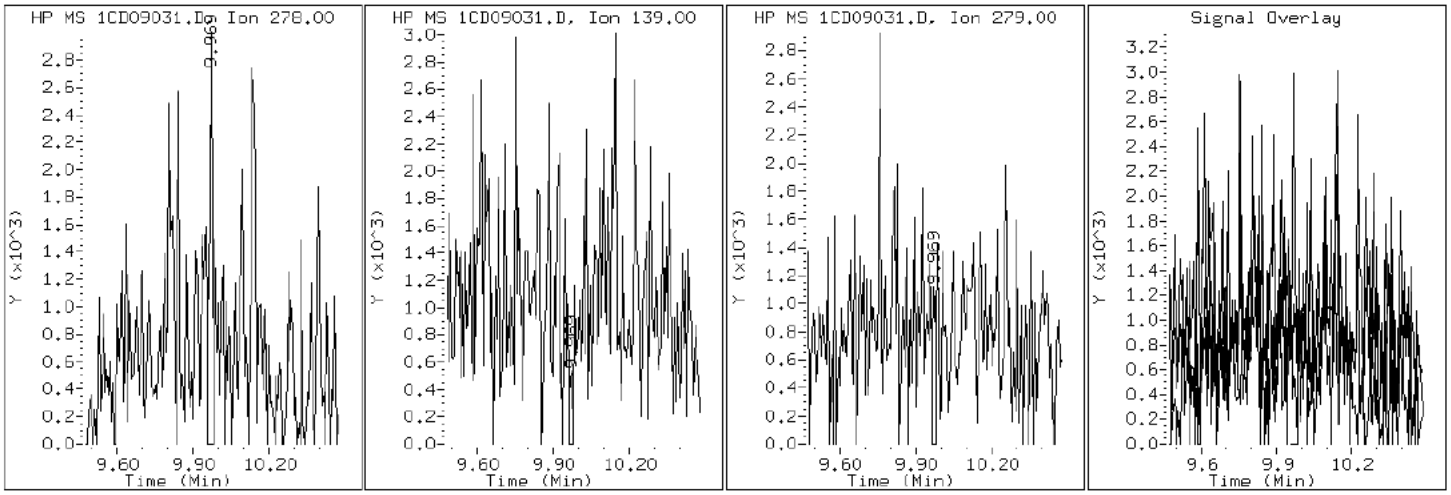
Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC

25 Dibenzo(a,h)anthracene



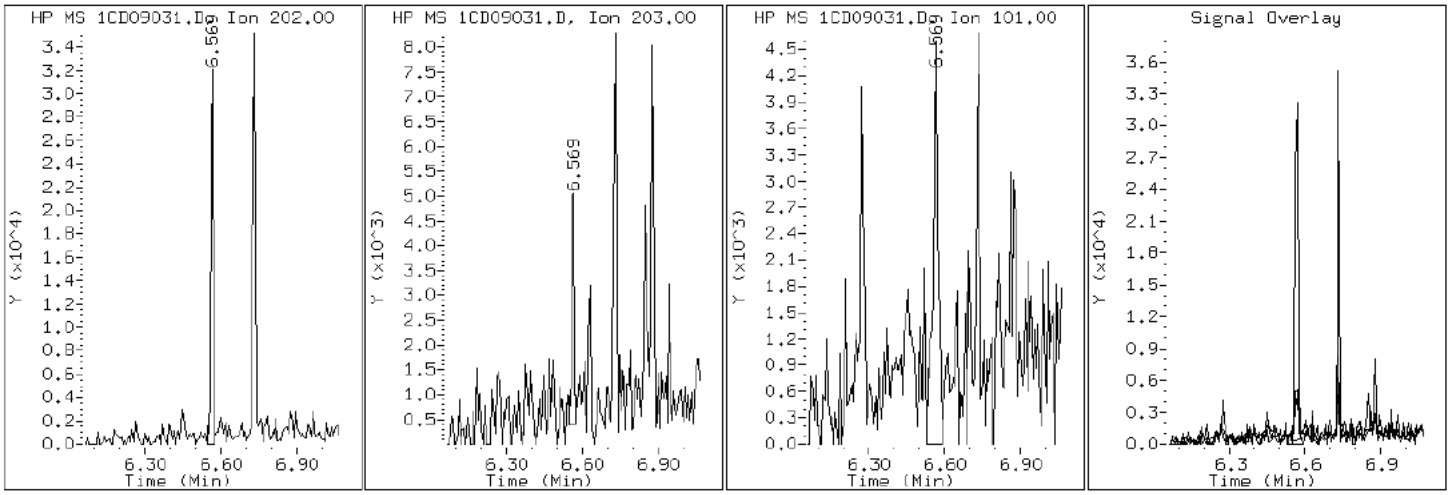
Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC

15 Fluoranthene



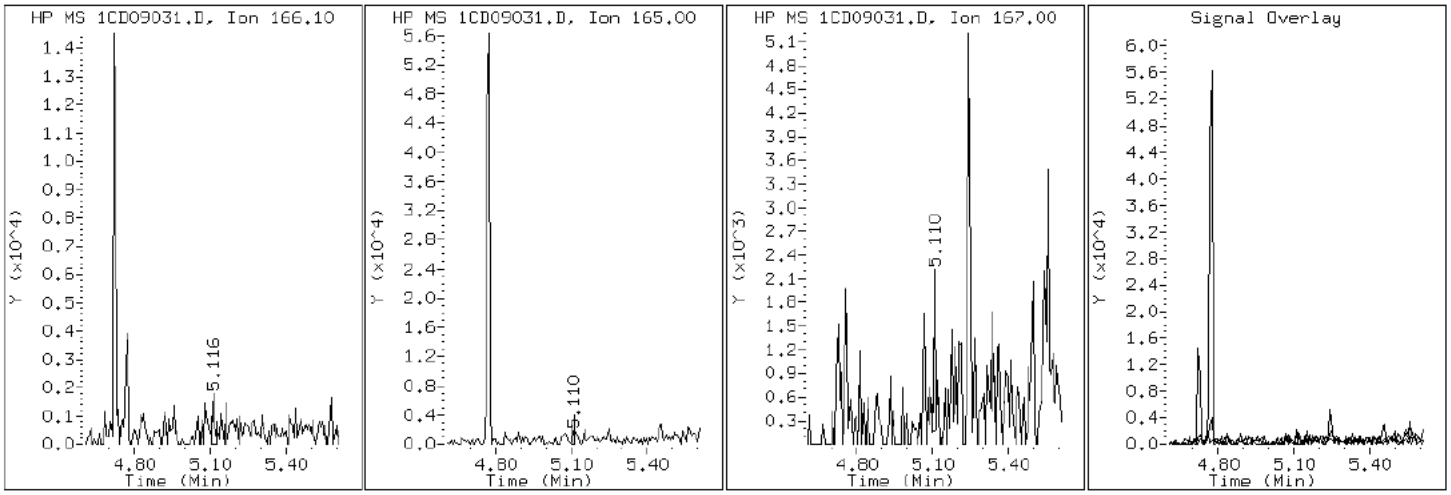
Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC

9 Fluorene



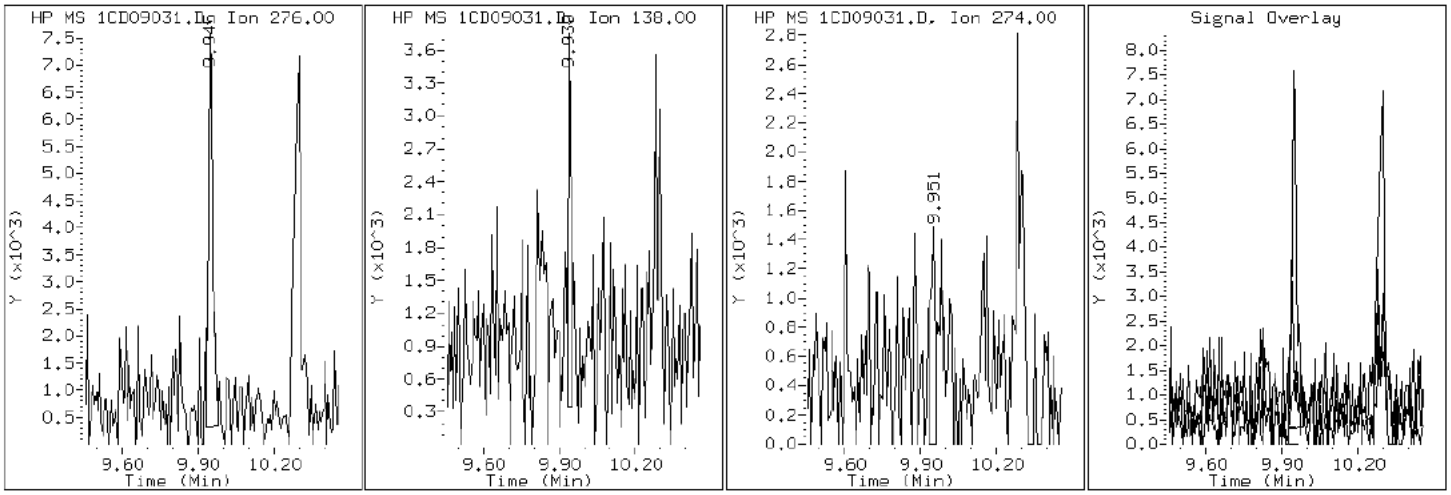
Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC

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



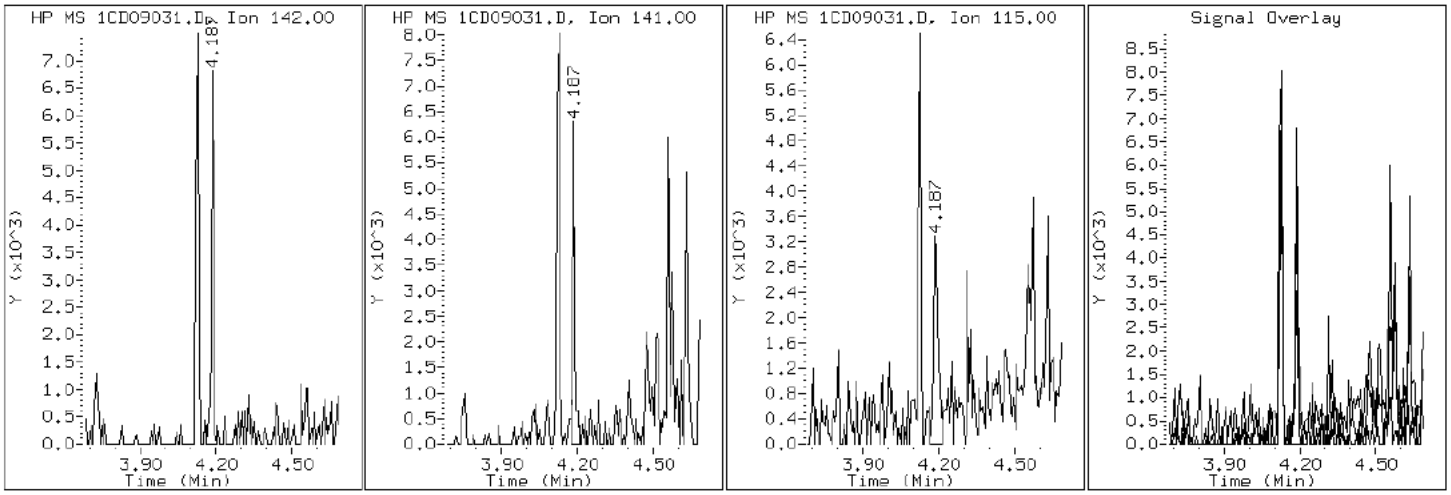
Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC

4 1-Methylnaphthalene



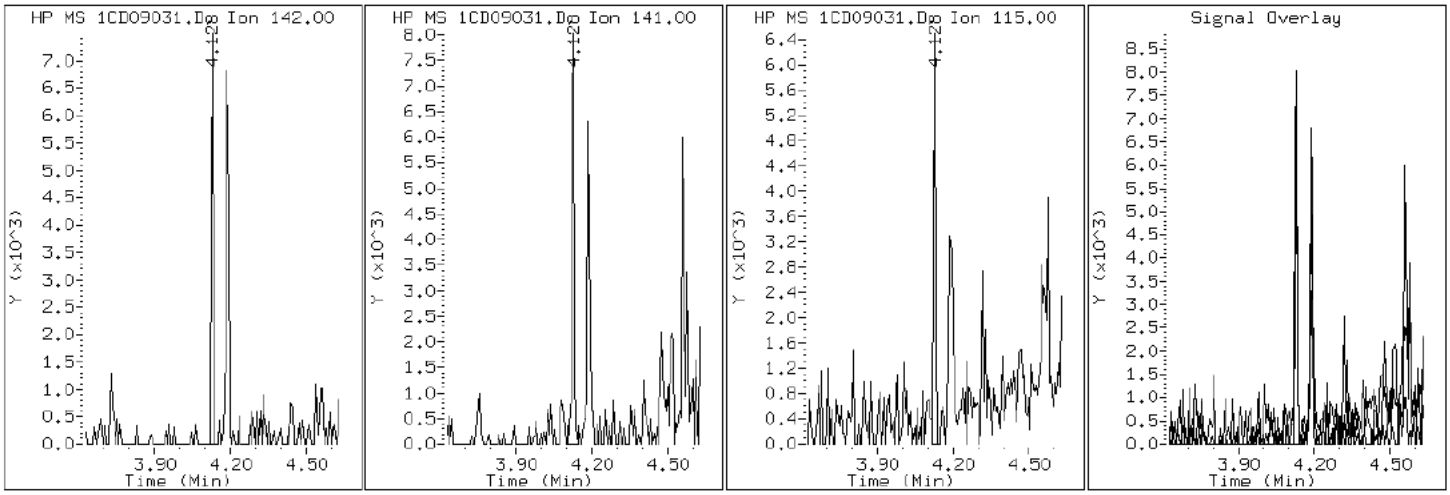
Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC

3 2-Methylnaphthalene



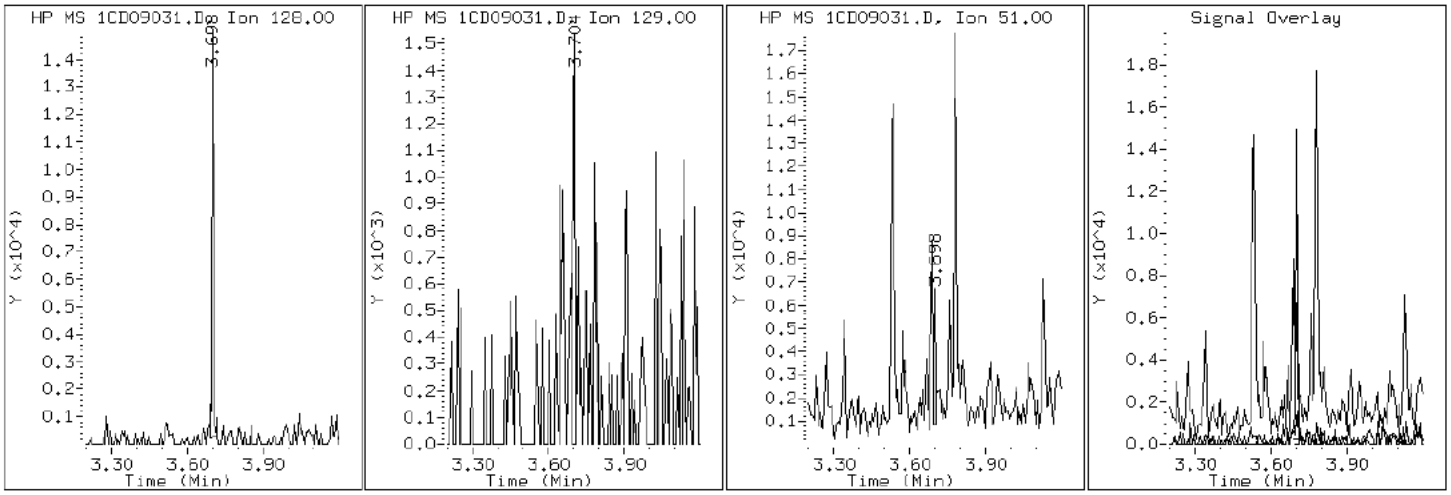
Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC

2 Naphthalene



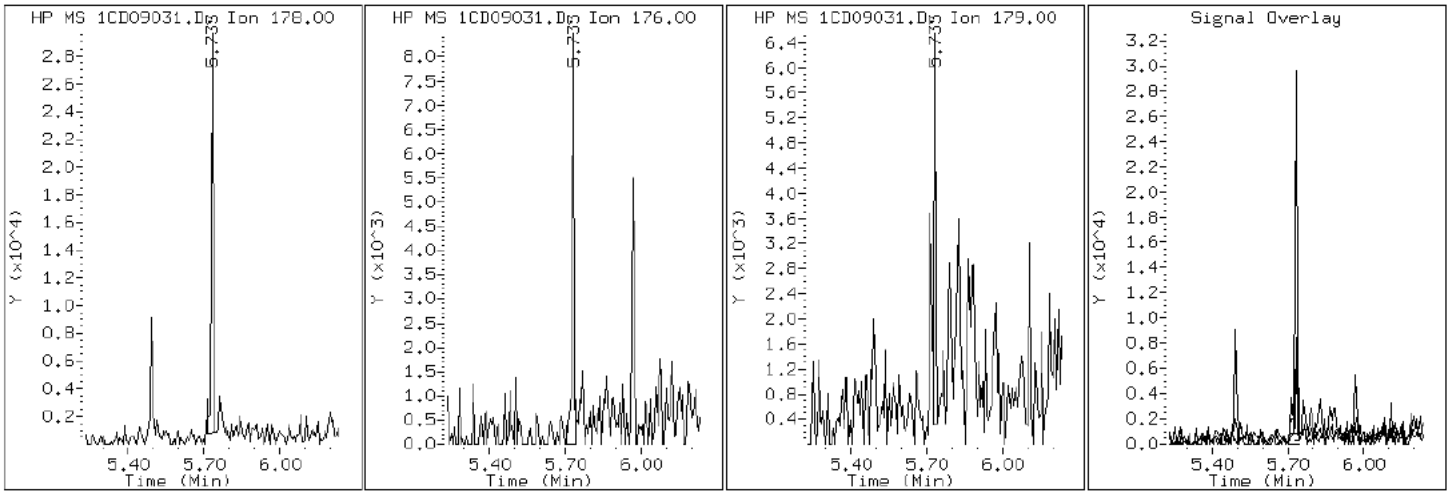
Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC

11 Phenanthrene



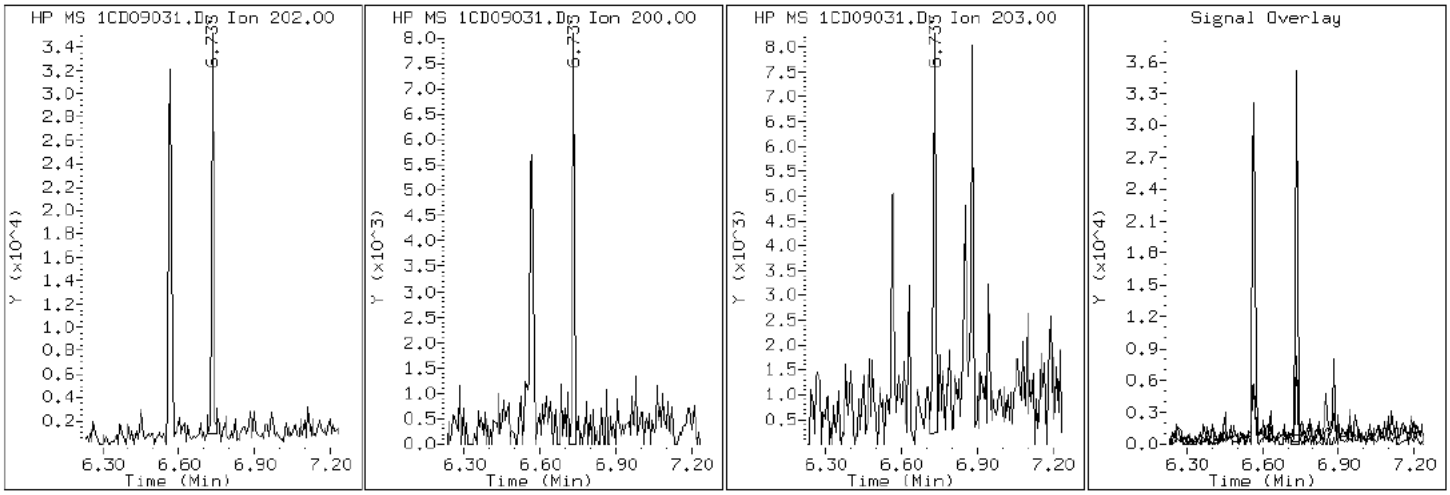
Data File: 1CD09031.D

Date: 09-APR-2013 20:24

Client ID: CV1122B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-55-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD09031.D
Inj. Date and Time: 09-APR-2013 20:24
Instrument ID: BSMC5973.i
Client ID: CV1122B-CS
Compound: 9 Fluorene
CAS #: 86-73-7
Report Date: 04/10/2013

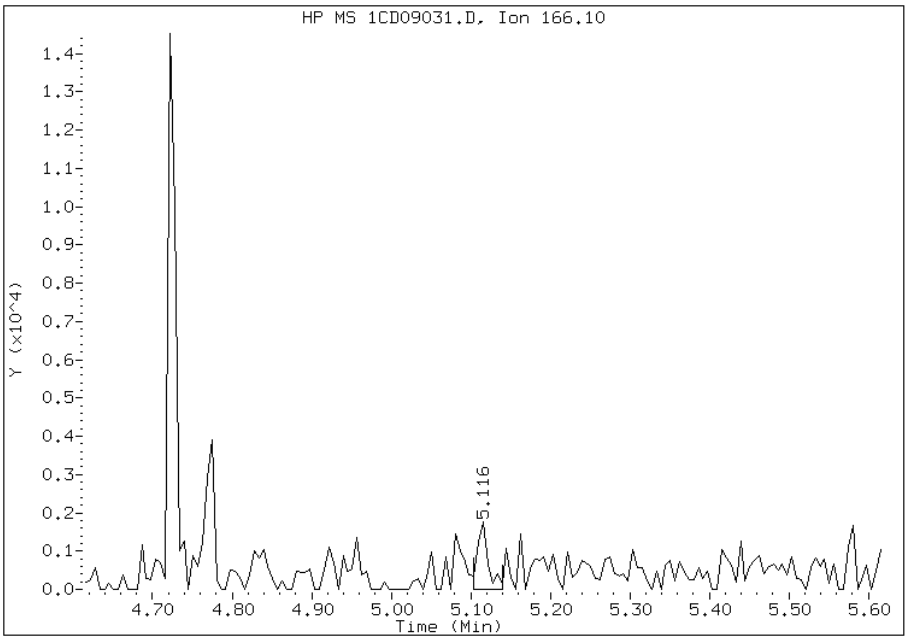
Processing Integration Results

RT: 5.12

Response: 1670

Amount: 0

Conc: 13



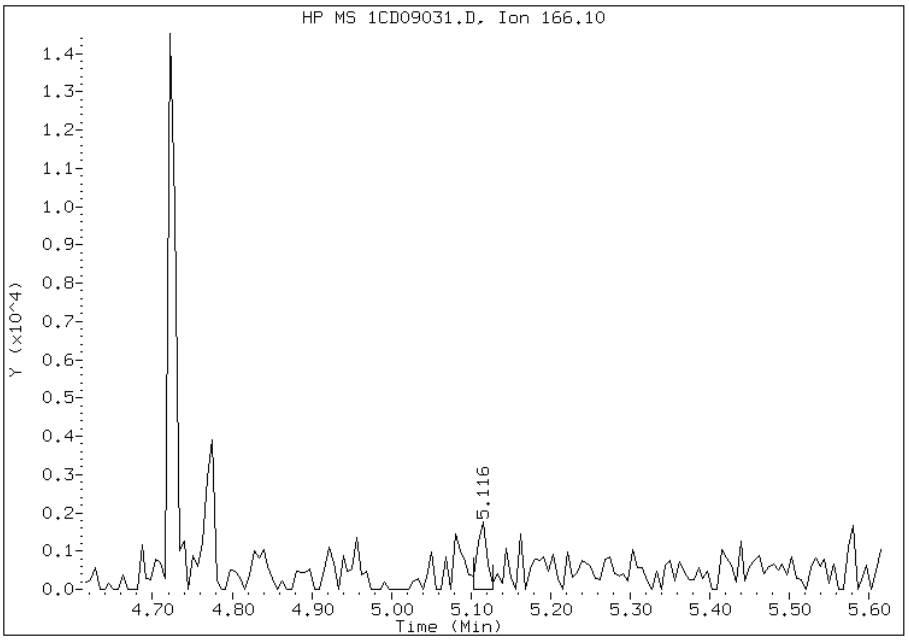
Manual Integration Results

RT: 5.12

Response: 1473

Amount: 0

Conc: 11



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1123A-CS | Lab Sample ID: 680-88811-56

Matrix: Solid | Lab File ID: 1CD09032.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 09:05

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.40(g) | Date Analyzed: 04/09/2013 20:43

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

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

% Moisture: 16.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	470	U	470	93
208-96-8	Acenaphthylene	33	J	190	23
120-12-7	Anthracene	62		39	20
56-55-3	Benzo[a]anthracene	330		37	18
50-32-8	Benzo[a]pyrene	270		48	24
205-99-2	Benzo[b]fluoranthene	440		57	28
191-24-2	Benzo[g,h,i]perylene	170		93	21
207-08-9	Benzo[k]fluoranthene	210		37	17
218-01-9	Chrysene	360		42	21
53-70-3	Dibenz(a,h)anthracene	76	J	93	19
206-44-0	Fluoranthene	460		93	19
86-73-7	Fluorene	93	U	93	19
193-39-5	Indeno[1,2,3-cd]pyrene	180		93	33
90-12-0	1-Methylnaphthalene	110	J	190	21
91-57-6	2-Methylnaphthalene	140	J	190	33
91-20-3	Naphthalene	150	J	190	21
85-01-8	Phenanthrene	350		37	18
129-00-0	Pyrene	440		93	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	81		30-130

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09032.D
Lab Smp Id: 680-88811-A-56-A Client Smp ID: CV1123A-CS
Inj Date : 09-APR-2013 20:43
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-56-a
Misc Info : 680-88811-A-56-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	15.400	Weight Extracted
M	16.424	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.686	3.686	(1.000)	387463	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.774	(1.000)	287947	40.0000	
* 10 Phenanthrene-d10	188	5.716	5.716	(1.000)	495805	40.0000	
$ 14 o-Terphenyl	230	5.968	5.968	(1.044)	10512	2.02432	629.1269
* 18 Chrysene-d12	240	7.657	7.657	(1.000)	524444	40.0000	
* 23 Perylene-d12	264	8.821	8.827	(1.000)	506862	40.0000	
2 Naphthalene	128	3.698	3.698	(1.003)	4759	0.47820	148.6167(Q)
3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	3099	0.45746	142.1699
4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	2136	0.35041	108.9027
5 Acenaphthylene	152	4.686	4.686	(0.982)	1265	0.10615	32.9887
11 Phenanthrene	178	5.733	5.733	(1.003)	16062	1.11232	345.6896
12 Anthracene	178	5.763	5.768	(1.008)	2936	0.20057	62.3347
13 Carbazole	167	5.874	5.874	(1.028)	3399	0.27103	84.2314(Q)
15 Fluoranthene	202	6.563	6.568	(1.148)	23668	1.48414	461.2453

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.733	6.733	(0.879)	20543	1.41408	439.4720
17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	13895	1.05003	326.3322
19 Chrysene	228	7.674	7.674	(1.002)	17285	1.15662	359.4597
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	20515	1.43167	444.9398
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.963)	9156	0.66065	205.3185
22 Benzo(a)pyrene	252	8.762	8.768	(0.993)	11586	0.85881	266.9031
24 Indeno(1,2,3-cd)pyrene	276	9.951	9.956	(1.128)	7376	0.57563	178.8974(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.974	(1.129)	2877	0.24305	75.5373(Q)
26 Benzo(g,h,i)perylene	276	10.292	10.298	(1.167)	7117	0.54420	169.1283

QC Flag Legend

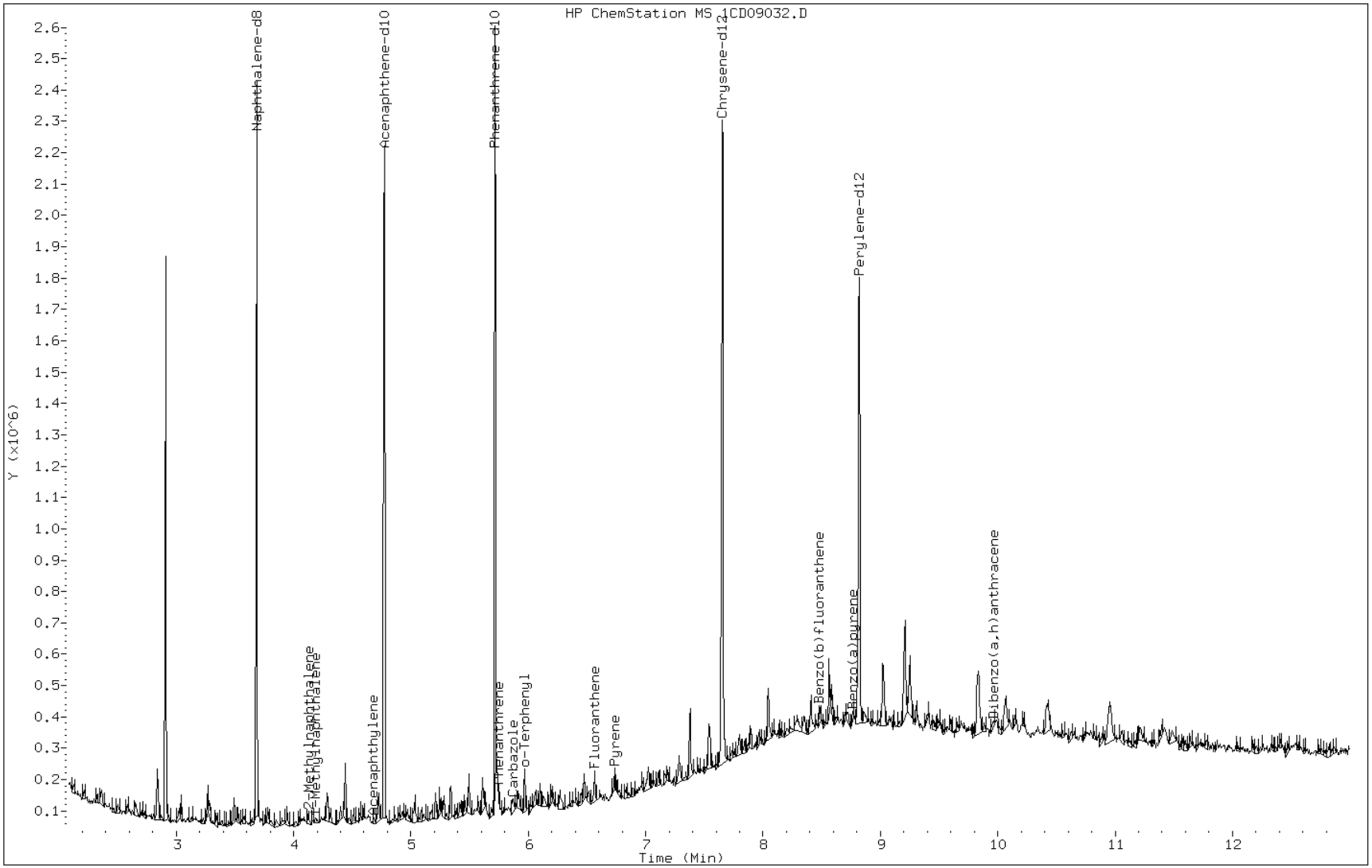
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD09032.D

Date: 09-APR-2013 20:43

Client ID: CV1123A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-56-a Operator: SCC



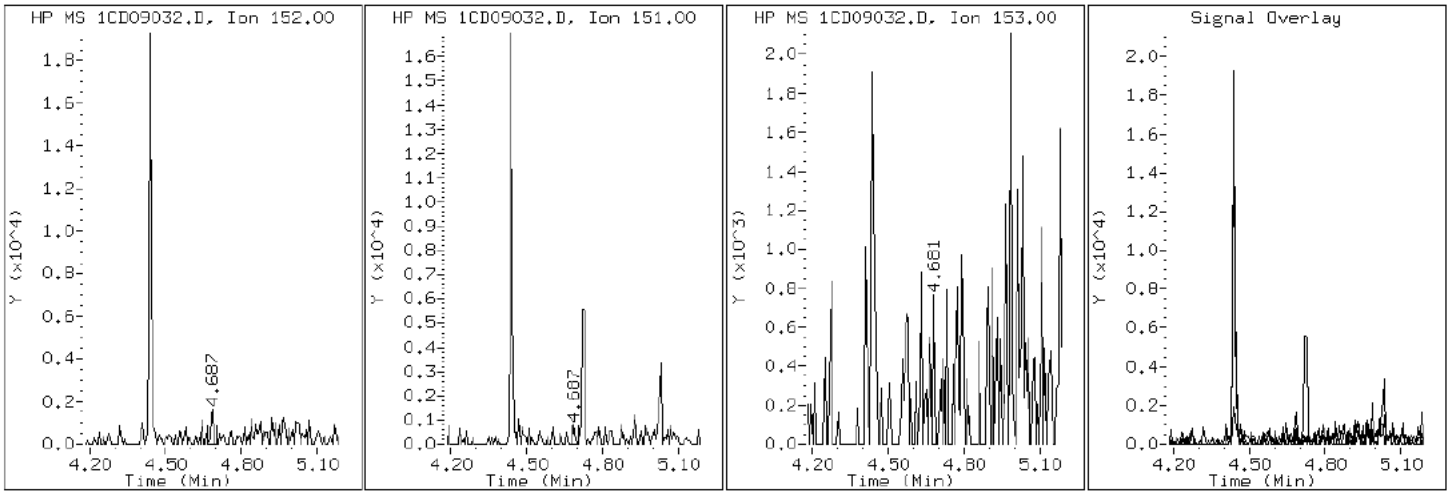
Data File: 1CD09032.D

Date: 09-APR-2013 20:43

Client ID: CV1123A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-56-a Operator: SCC

5 Acenaphthylene



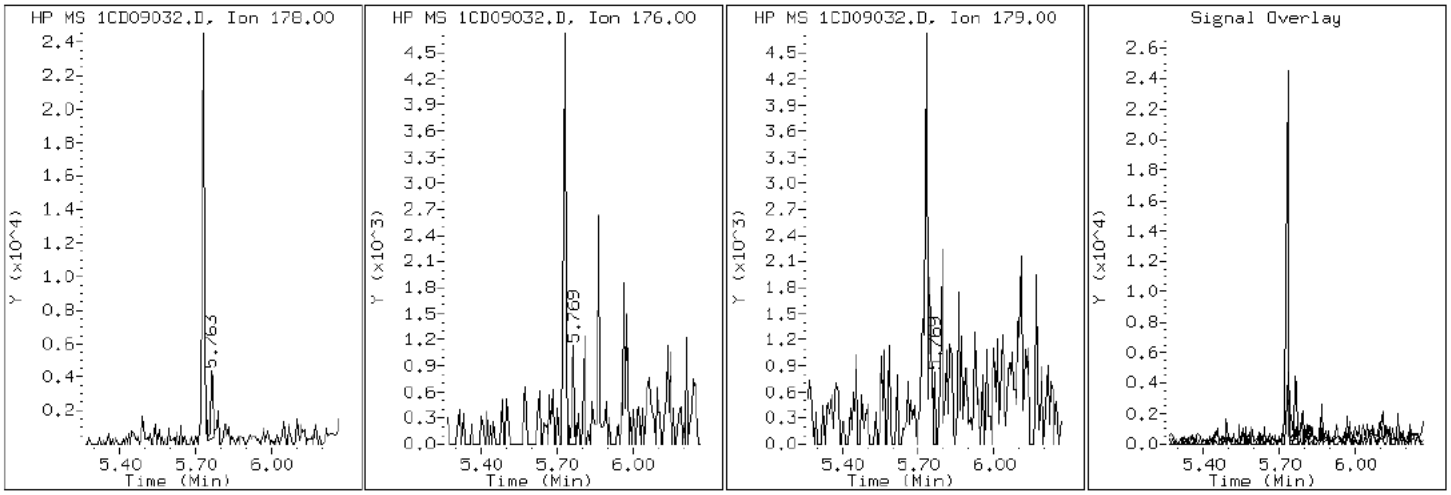
Data File: 1CD09032.D

Date: 09-APR-2013 20:43

Client ID: CV1123A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-56-a Operator: SCC

12 Anthracene



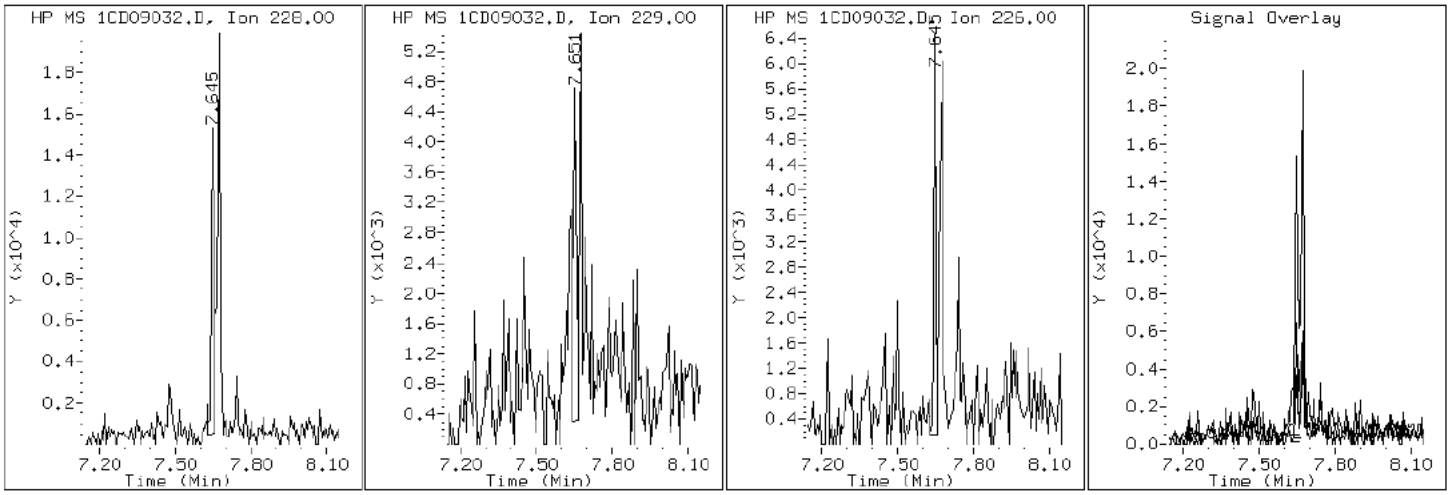
Data File: 1CD09032.D

Date: 09-APR-2013 20:43

Client ID: CV1123A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-56-a Operator: SCC

17 Benzo(a)anthracene



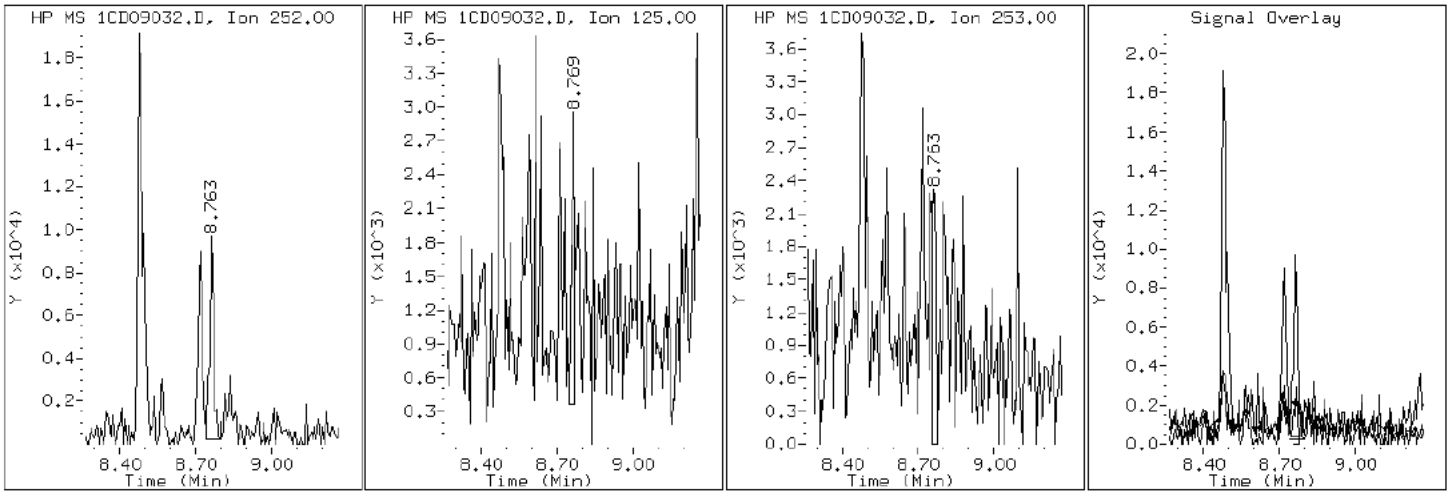
Data File: 1CD09032.D

Date: 09-APR-2013 20:43

Client ID: CV1123A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-56-a Operator: SCC

22 Benzo(a)pyrene



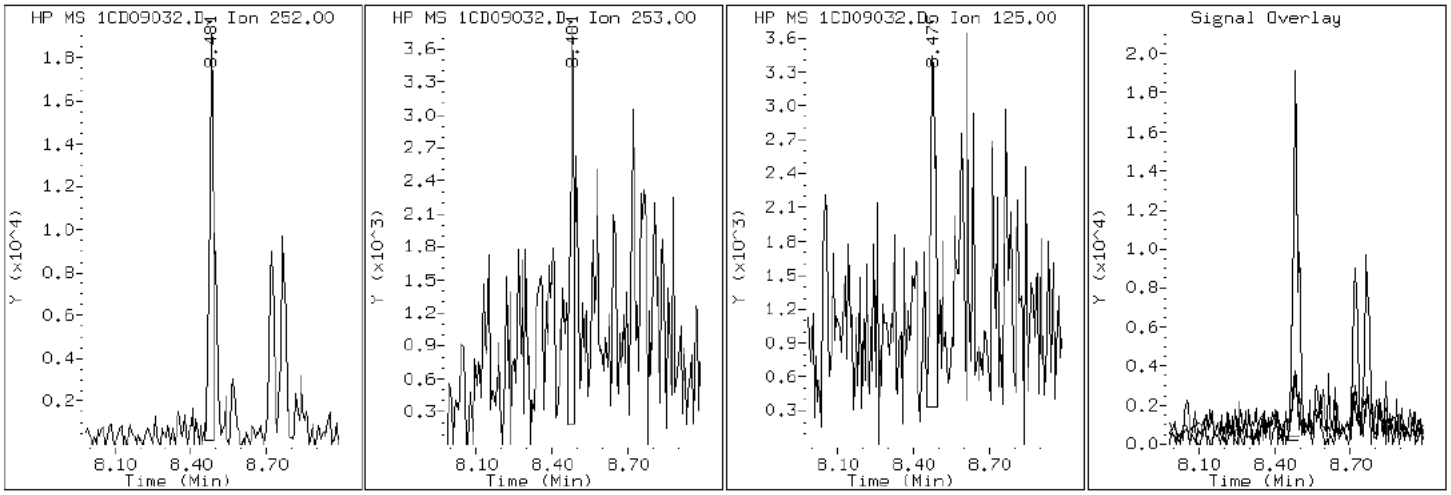
Data File: 1CD09032.D

Date: 09-APR-2013 20:43

Client ID: CV1123A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-56-a Operator: SCC

20 Benzo(b)fluoranthene



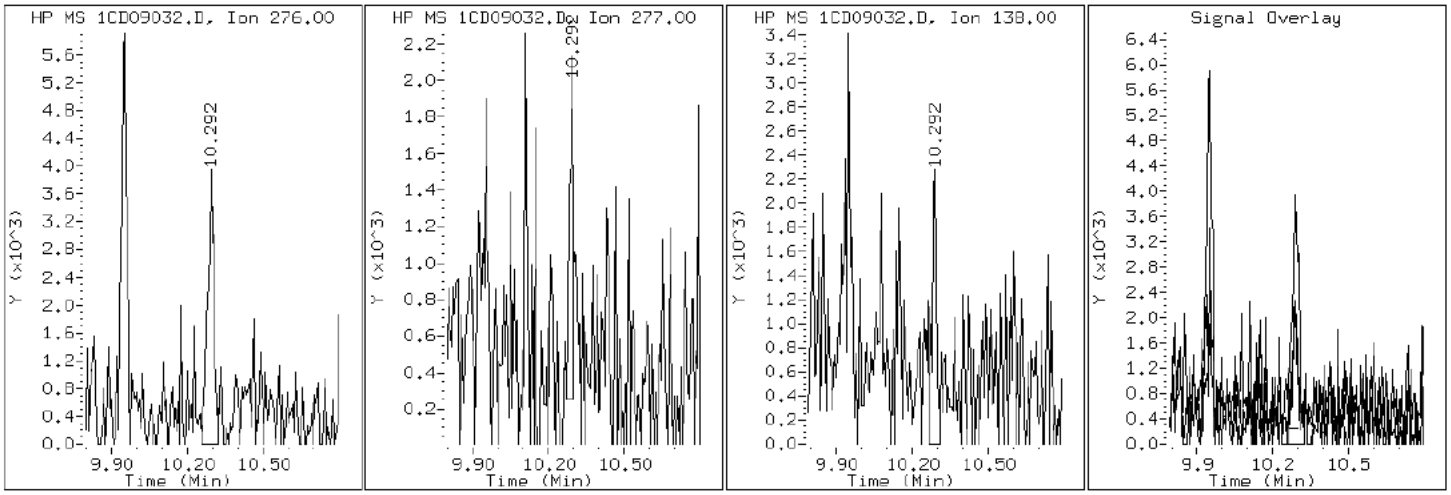
Data File: 1CD09032.D

Date: 09-APR-2013 20:43

Client ID: CV1123A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-56-a Operator: SCC

26 Benzo(g,h,i)perylene



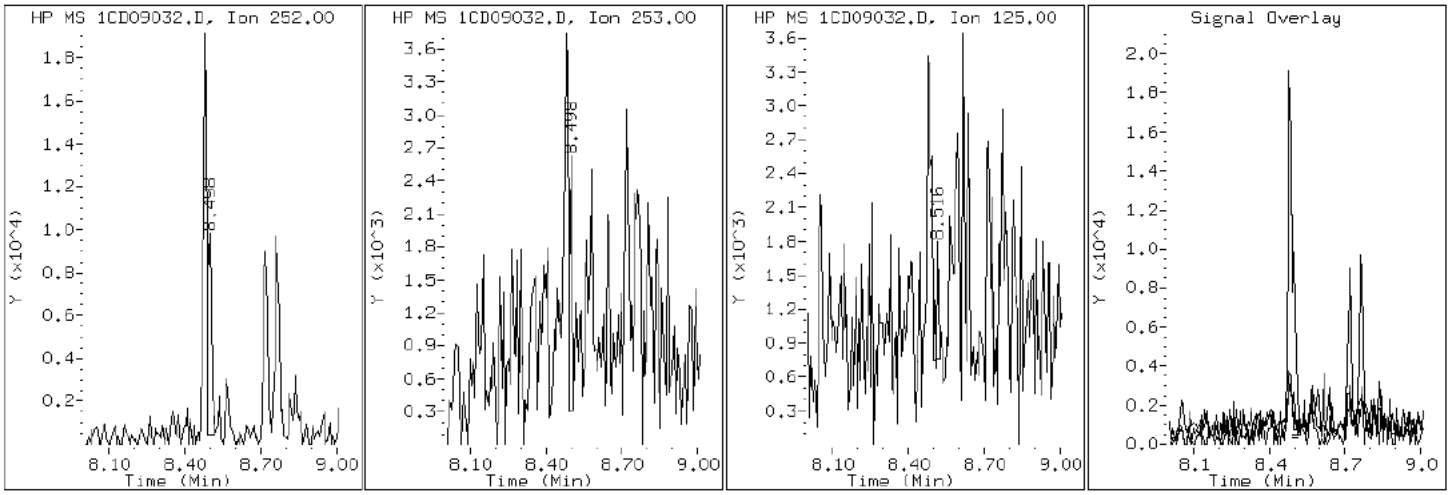
Data File: 1CD09032.D

Date: 09-APR-2013 20:43

Client ID: CV1123A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-56-a Operator: SCC

21 Benzo(k)fluoranthene



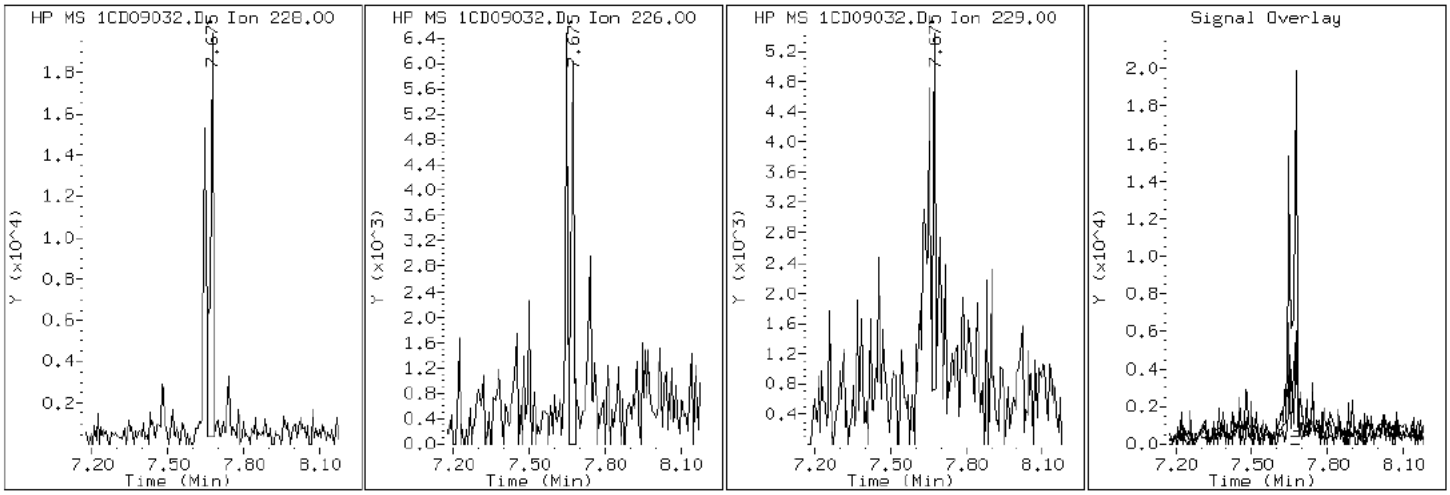
Data File: 1CD09032.D

Date: 09-APR-2013 20:43

Client ID: CV1123A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-56-a Operator: SCC

19 Chrysene



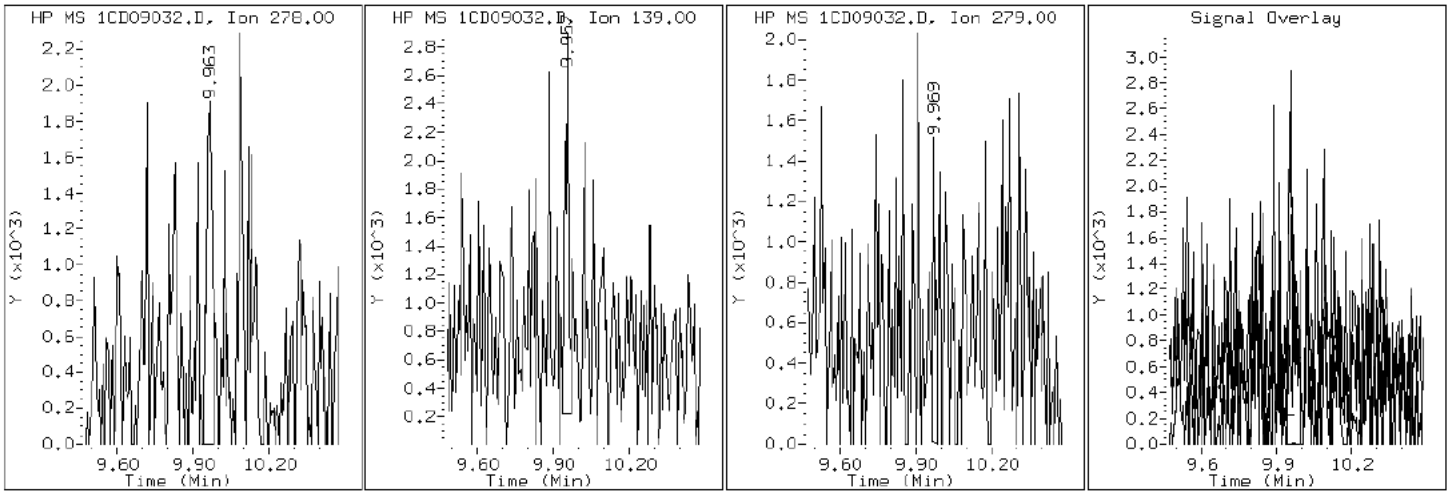
Data File: 1CD09032.D

Date: 09-APR-2013 20:43

Client ID: CV1123A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-56-a Operator: SCC

25 Dibenzo(a,h)anthracene



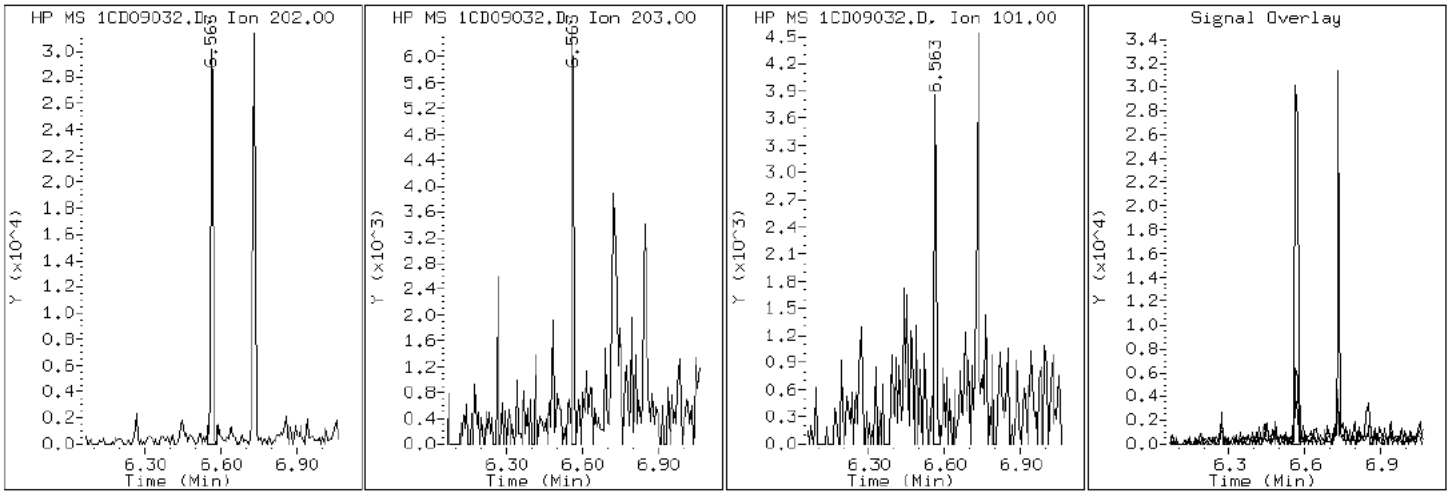
Data File: 1CD09032.D

Date: 09-APR-2013 20:43

Client ID: CV1123A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-56-a Operator: SCC

15 Fluoranthene



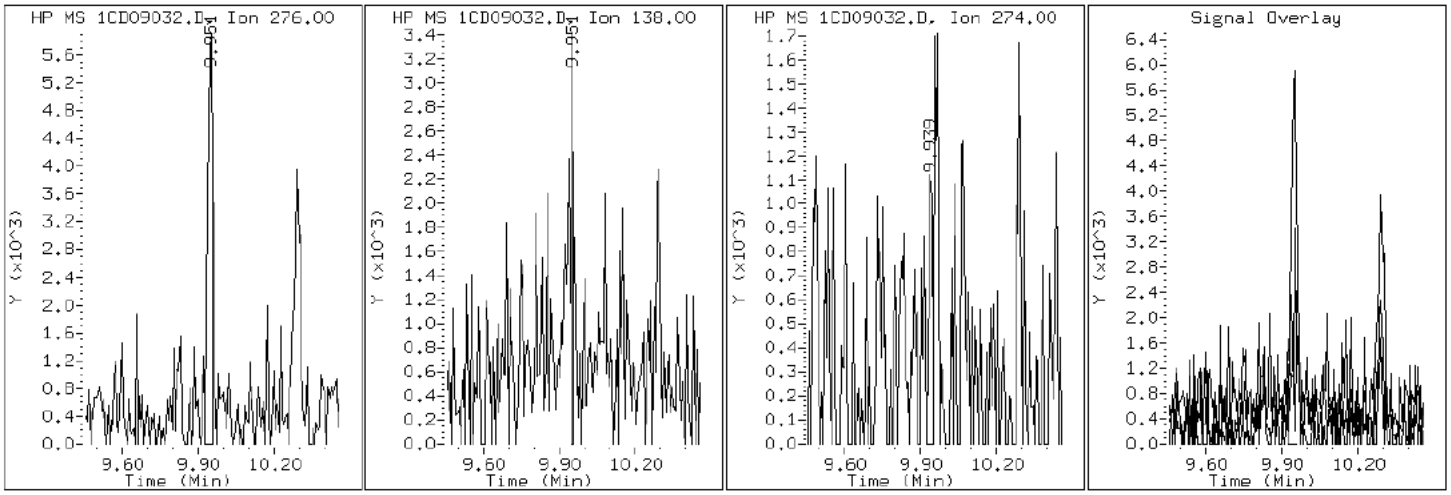
Data File: 1CD09032.D

Date: 09-APR-2013 20:43

Client ID: CV1123A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-56-a Operator: SCC

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



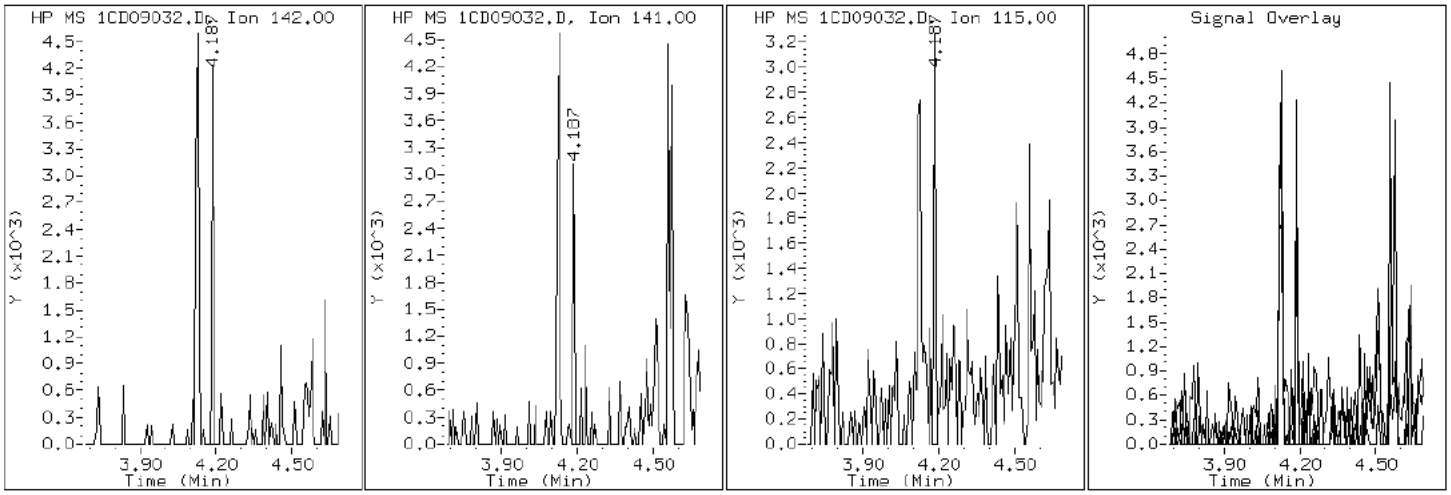
Data File: 1CD09032.D

Date: 09-APR-2013 20:43

Client ID: CV1123A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-56-a Operator: SCC

4 1-Methylnaphthalene



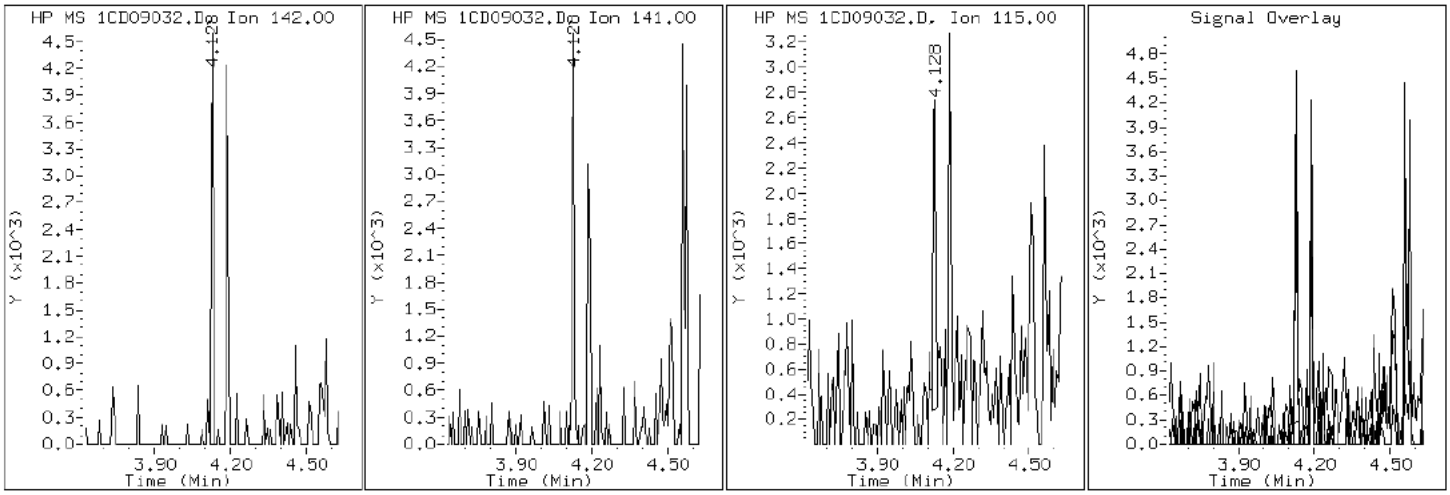
Data File: 1CD09032.D

Date: 09-APR-2013 20:43

Client ID: CV1123A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-56-a Operator: SCC

3 2-Methylnaphthalene



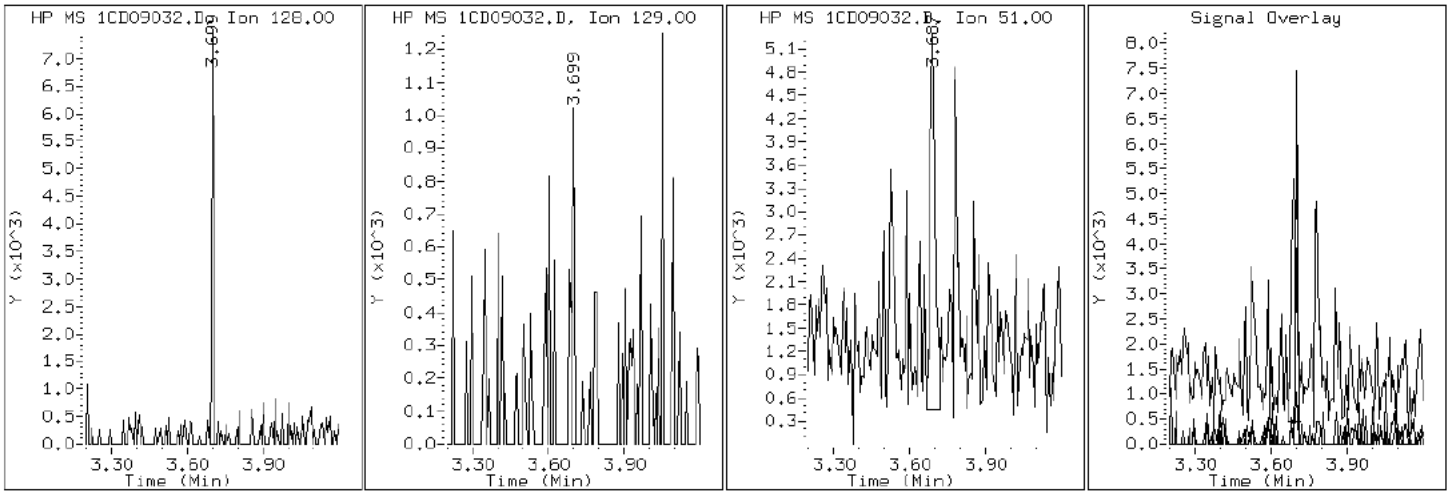
Data File: 1CD09032.D

Date: 09-APR-2013 20:43

Client ID: CV1123A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-56-a Operator: SCC

2 Naphthalene



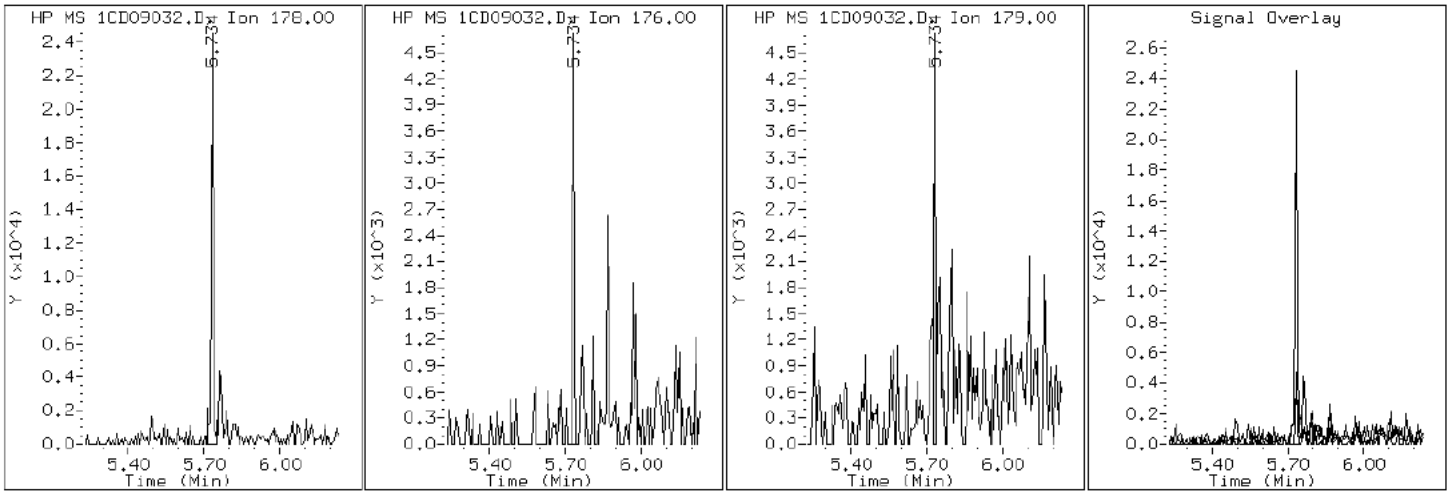
Data File: 1CD09032.D

Date: 09-APR-2013 20:43

Client ID: CV1123A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-56-a Operator: SCC

11 Phenanthrene



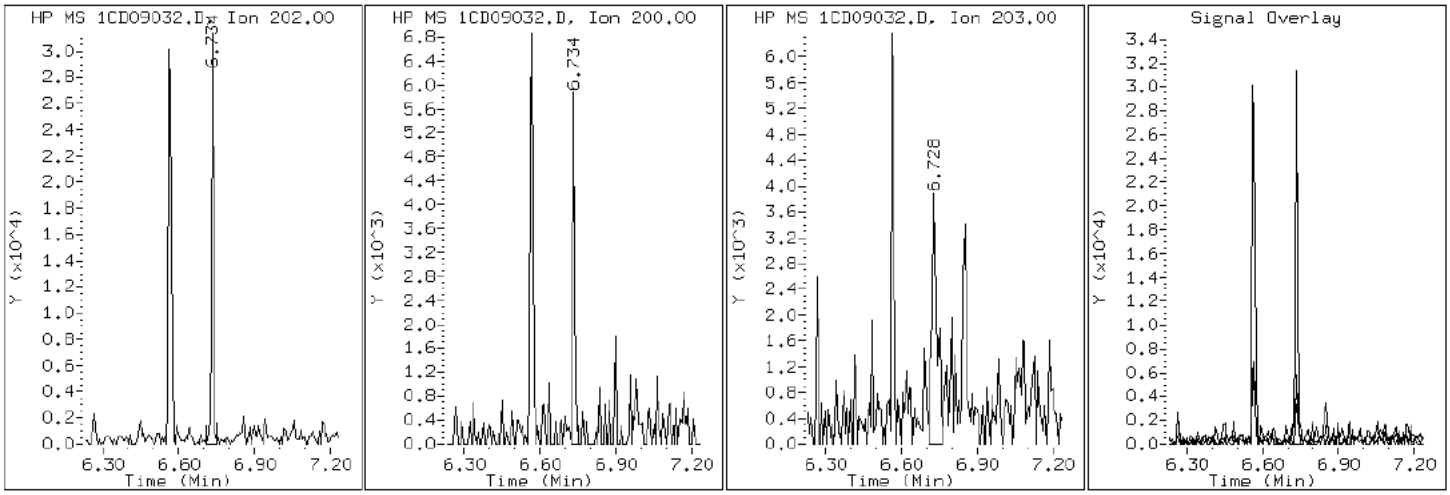
Data File: 1CD09032.D

Date: 09-APR-2013 20:43

Client ID: CV1123A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-56-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD09032.D
Inj. Date and Time: 09-APR-2013 20:43
Instrument ID: BSMC5973.i
Client ID: CV1123A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

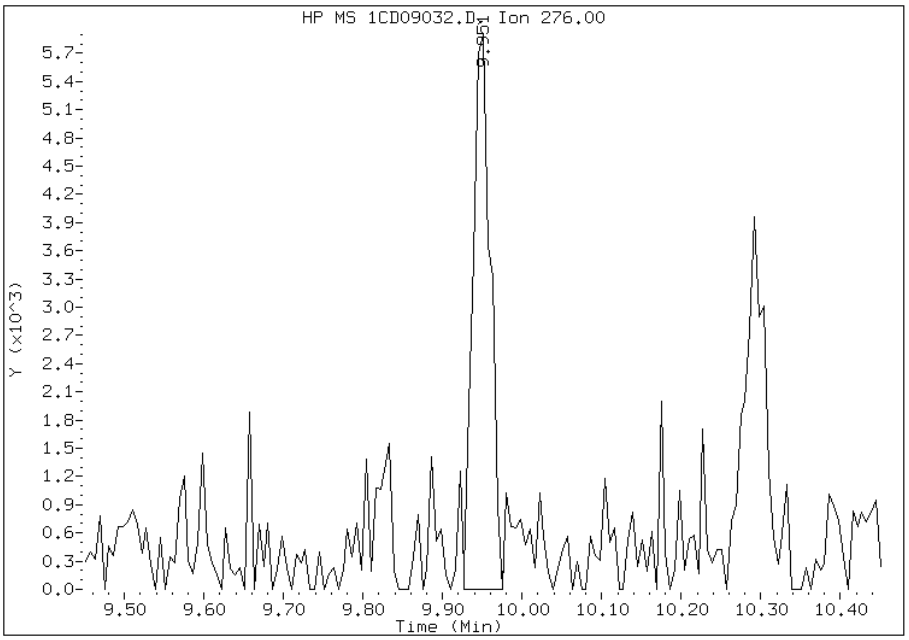
Processing Integration Results

RT: 9.95

Response: 8860

Amount: 1

Conc: 215



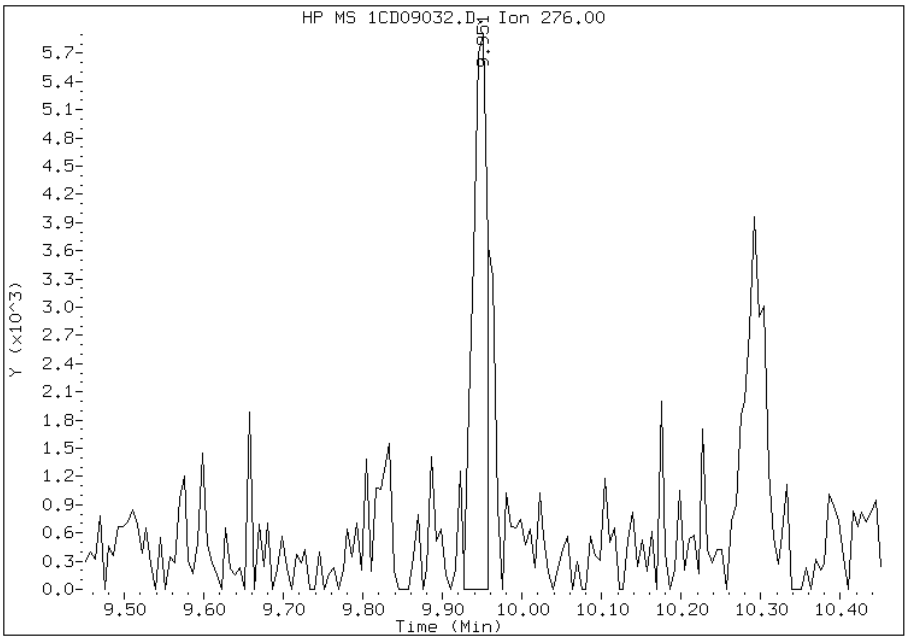
Manual Integration Results

RT: 9.95

Response: 7376

Amount: 1

Conc: 179



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1123B-CS | Lab Sample ID: 680-88811-57

Matrix: Solid | Lab File ID: 1CD09033.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 09:25

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.37(g) | Date Analyzed: 04/09/2013 21:01

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

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

% Moisture: 20.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	31	J	120	25
208-96-8	Acenaphthylene	31	J	49	6.1
120-12-7	Anthracene	71		10	5.2
56-55-3	Benzo[a]anthracene	280		9.8	4.8
50-32-8	Benzo[a]pyrene	270		13	6.4
205-99-2	Benzo[b]fluoranthene	510		15	7.5
191-24-2	Benzo[g,h,i]perylene	180		25	5.4
207-08-9	Benzo[k]fluoranthene	120		9.8	4.4
218-01-9	Chrysene	350		11	5.5
53-70-3	Dibenz(a,h)anthracene	60		25	5.0
206-44-0	Fluoranthene	540		25	4.9
86-73-7	Fluorene	19	J	25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	170		25	8.7
90-12-0	1-Methylnaphthalene	93		49	5.4
91-57-6	2-Methylnaphthalene	120		49	8.7
91-20-3	Naphthalene	110		49	5.4
85-01-8	Phenanthrene	370		9.8	4.8
129-00-0	Pyrene	530		25	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	65		30-130

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09033.D
Lab Smp Id: 680-88811-A-57-A Client Smp ID: CV1123B-CS
Inj Date : 09-APR-2013 21:01
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-57-a
Misc Info : 680-88811-A-57-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.370	Weight Extracted
M	20.529	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.686	3.686	(1.000)	385222	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	301923	40.0000	
*	10 Phenanthrene-d10	188	5.716	5.716	(1.000)	527016	40.0000	
$	14 o-Terphenyl	230	5.968	5.968	(1.044)	49268	6.45277	528.2783
*	18 Chrysene-d12	240	7.657	7.657	(1.000)	563260	40.0000	
*	23 Perylene-d12	264	8.821	8.827	(1.000)	502500	40.0000	
	2 Naphthalene	128	3.698	3.698	(1.003)	13783	1.39302	114.0441
	3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	9811	1.45667	119.2549
	4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	6876	1.13458	92.8861
	5 Acenaphthylene	152	4.686	4.686	(0.982)	4706	0.37660	30.8320
	7 Acenaphthene	154	4.792	4.792	(1.004)	2924	0.37780	30.9299(Q)
	9 Fluorene	166	5.110	5.110	(1.070)	2411	0.23368	19.1309
	11 Phenanthrene	178	5.733	5.733	(1.003)	68734	4.47803	366.6093
	12 Anthracene	178	5.768	5.768	(1.009)	13526	0.86931	71.1687

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.874	5.874	(1.028)	10553	0.79164	64.8102
15 Fluoranthene	202	6.568	6.568	(1.149)	110838	6.53865	535.3087
16 Pyrene	202	6.733	6.733	(0.879)	100187	6.42112	525.6866
17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	54575	3.47960	284.8693
19 Chrysene	228	7.674	7.674	(1.002)	68812	4.28723	350.9888
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	88503	6.22993	510.0344(M)
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.963)	20793	1.51333	123.8942(M)
22 Benzo(a)pyrene	252	8.762	8.768	(0.993)	43852	3.27872	268.4239
24 Indeno(1,2,3-cd)pyrene	276	9.951	9.956	(1.128)	26504	2.08636	170.8072
25 Dibenzo(a,h)anthracene	278	9.962	9.974	(1.129)	8629	0.73532	60.1997(Q)
26 Benzo(g,h,i)perylene	276	10.292	10.298	(1.167)	28158	2.17178	177.8004

QC Flag Legend

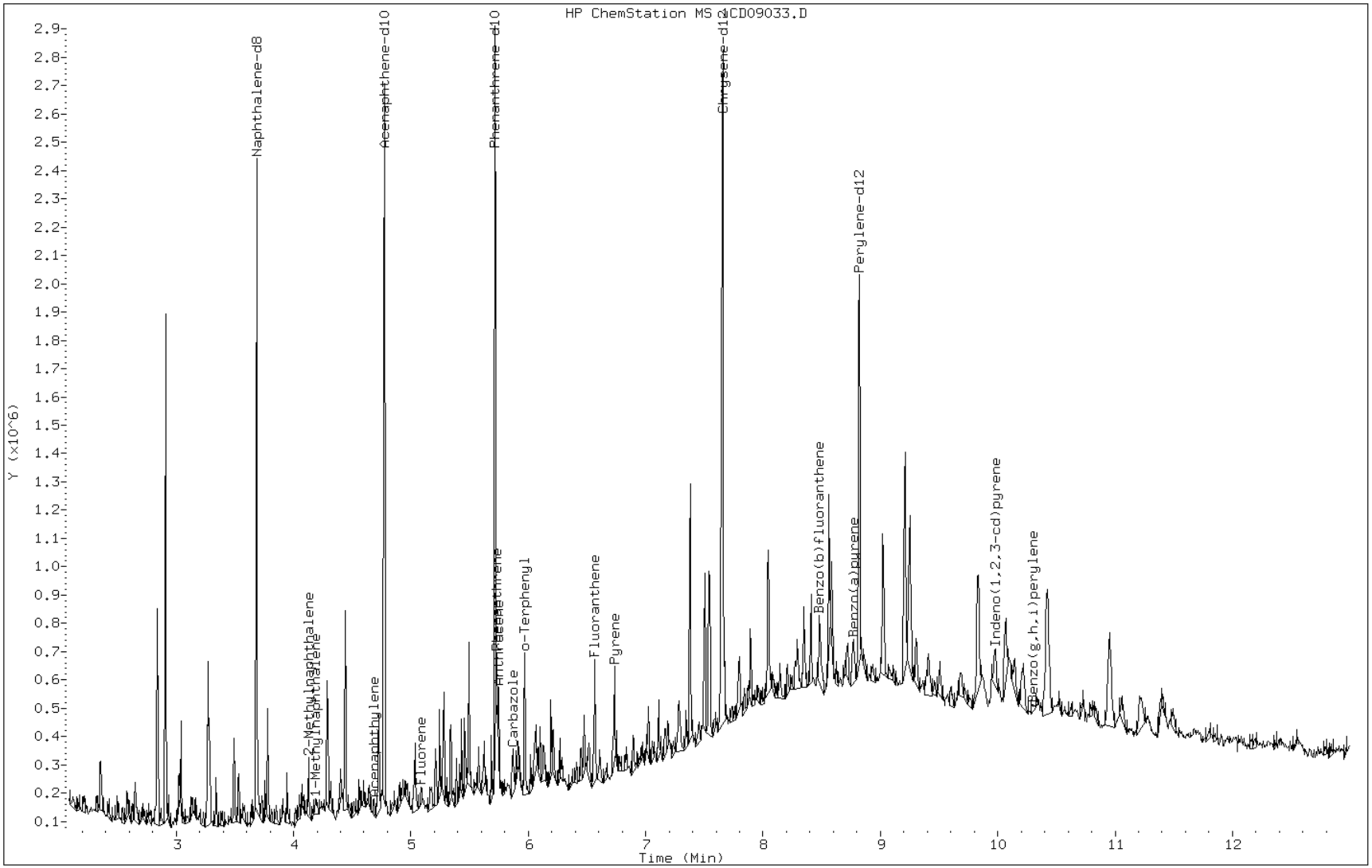
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC



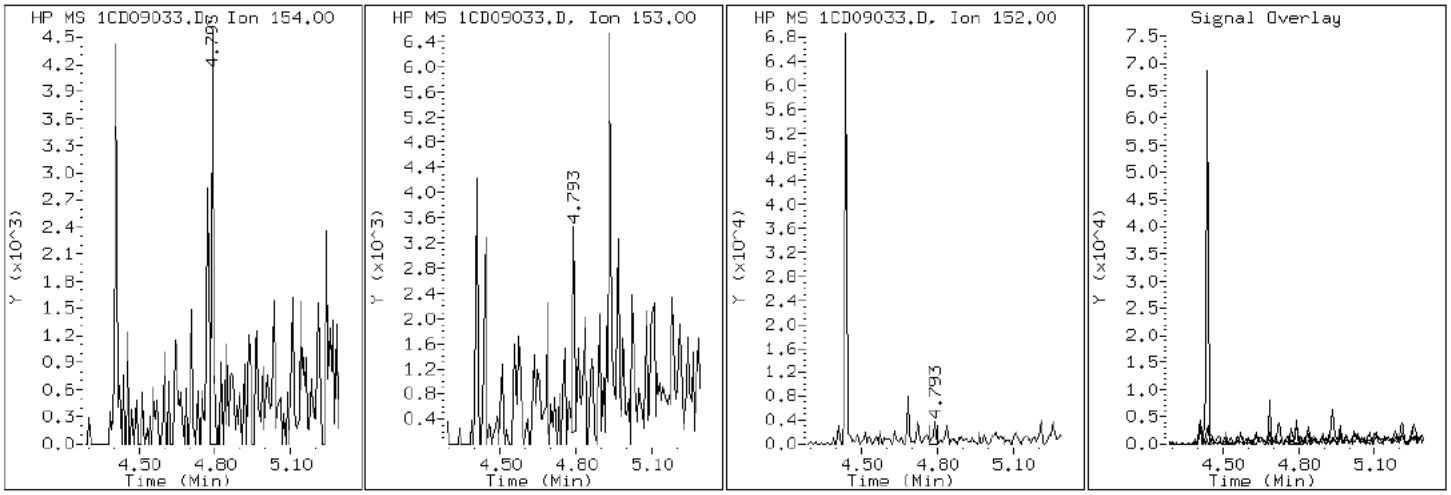
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

7 Acenaphthene



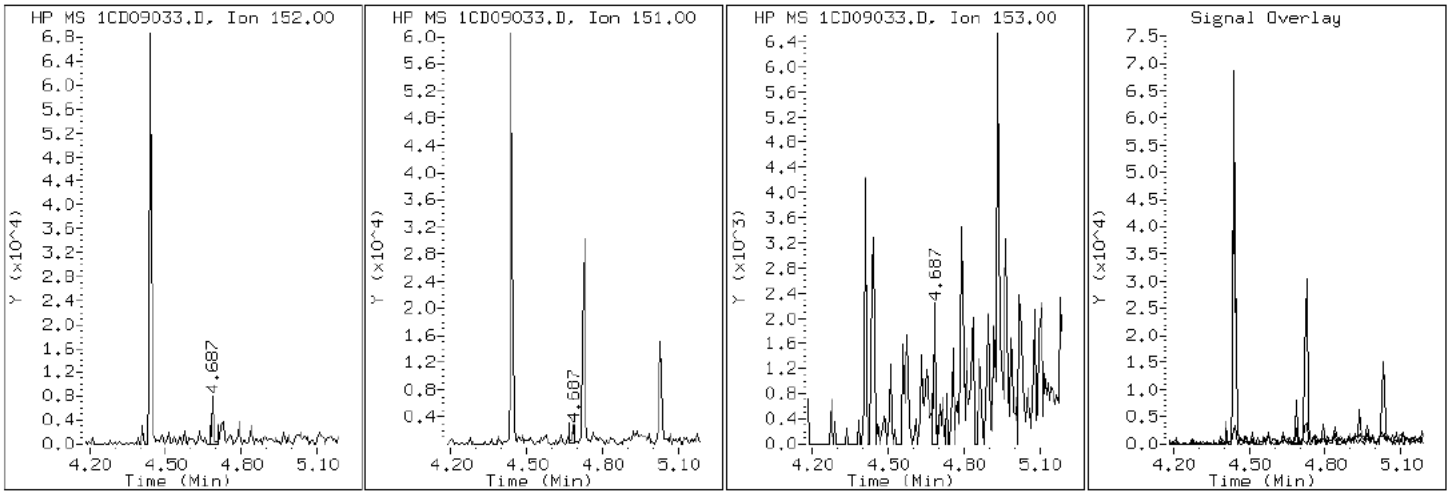
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

5 Acenaphthylene



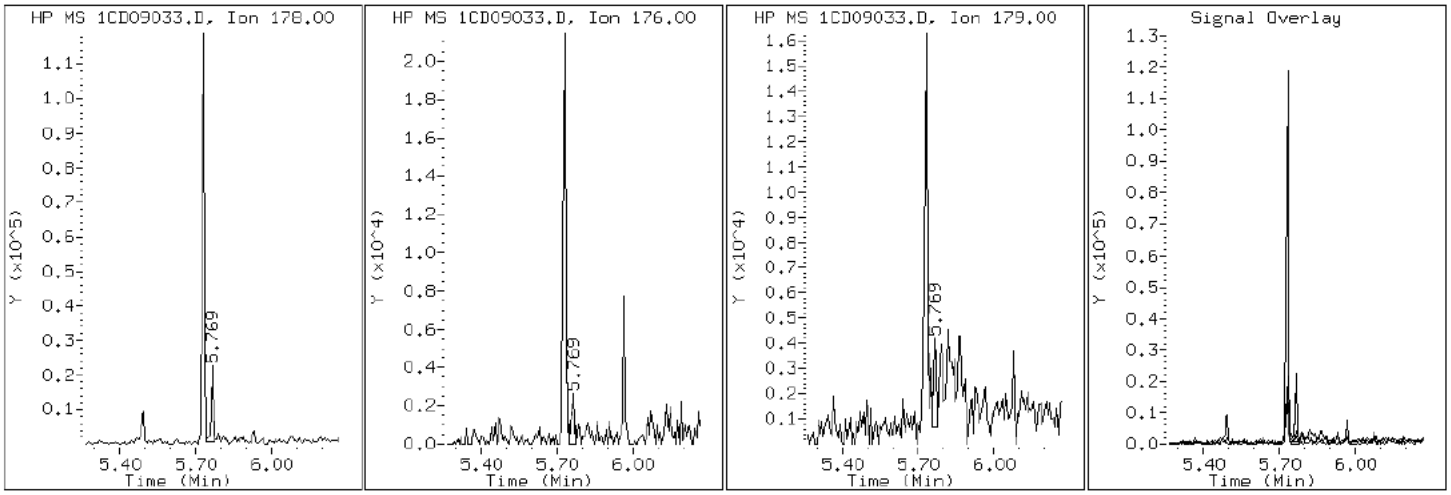
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

12 Anthracene



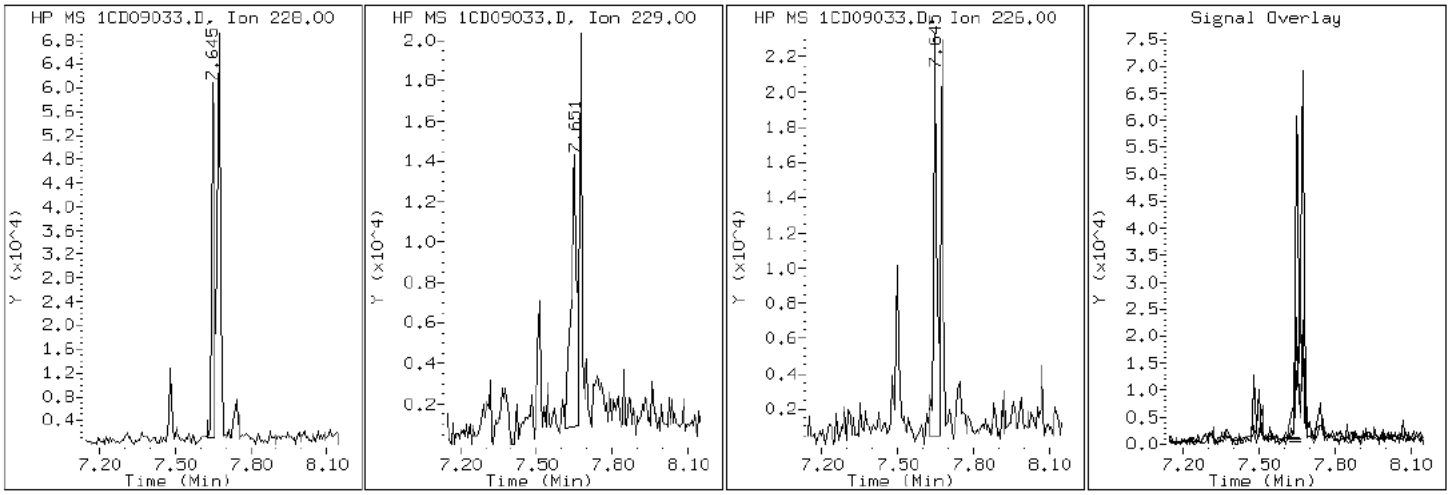
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

17 Benzo(a)anthracene



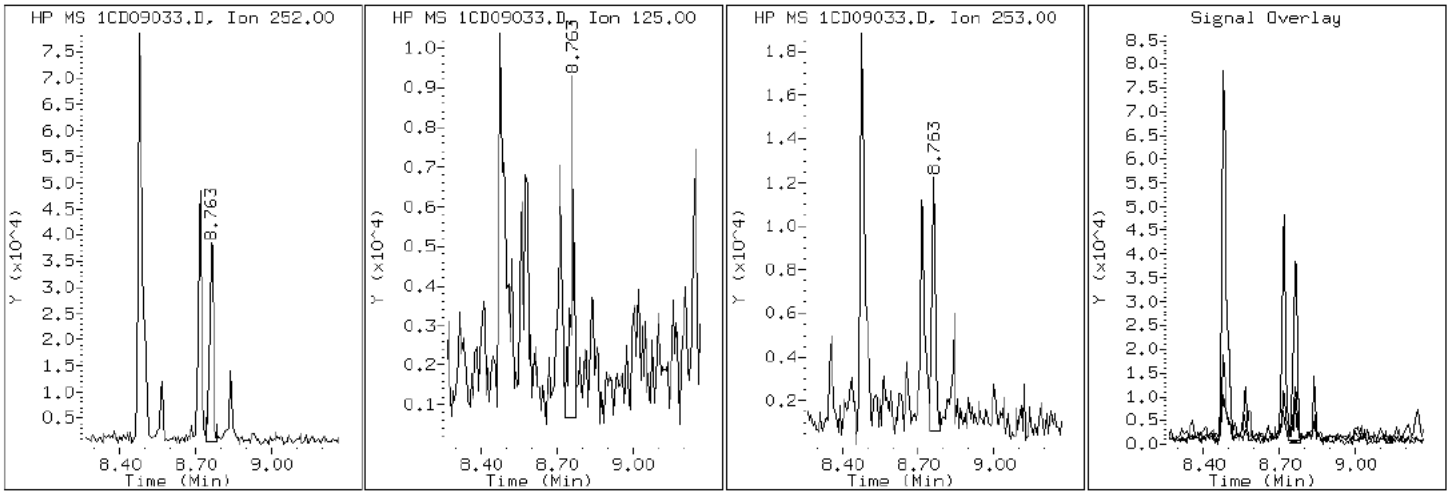
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

22 Benzo(a)pyrene



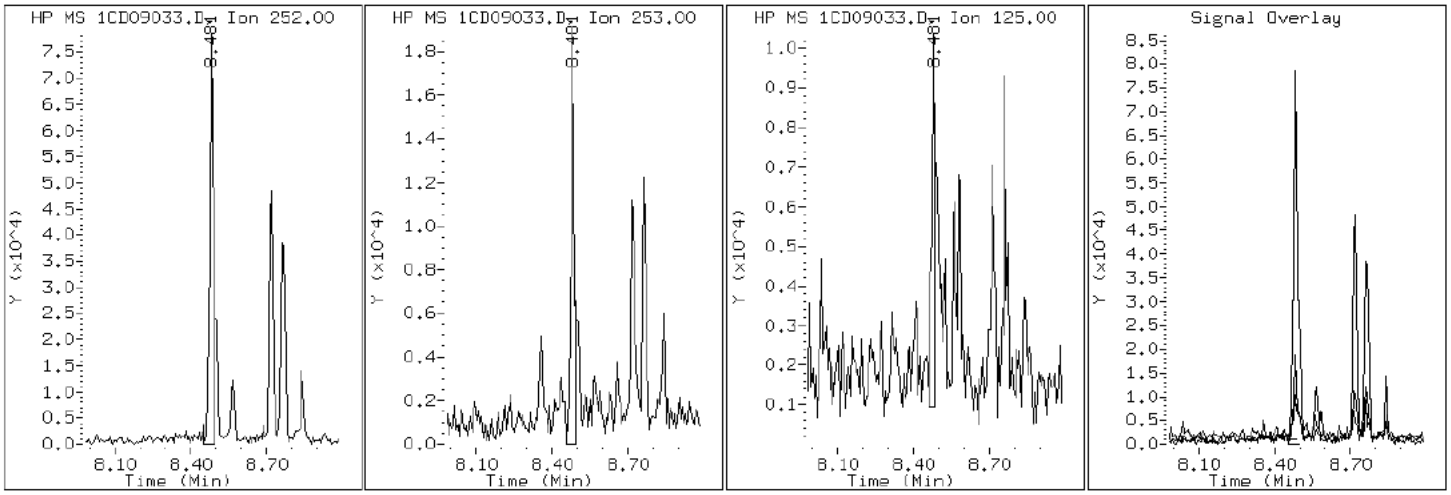
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

20 Benzo(b)fluoranthene



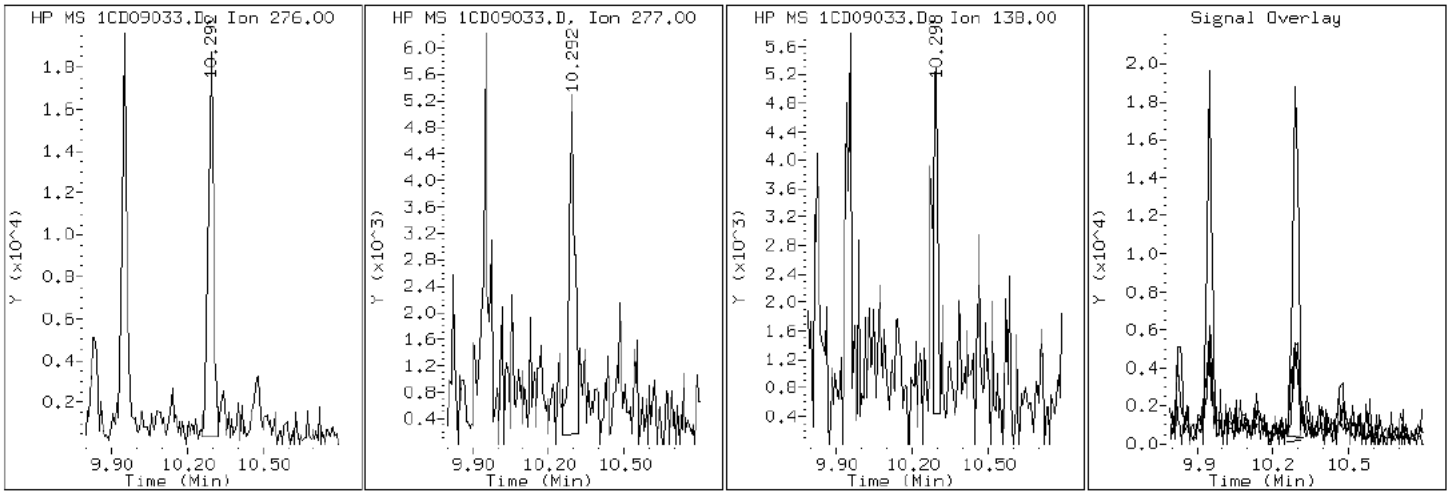
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

26 Benzo(g,h,i)perylene



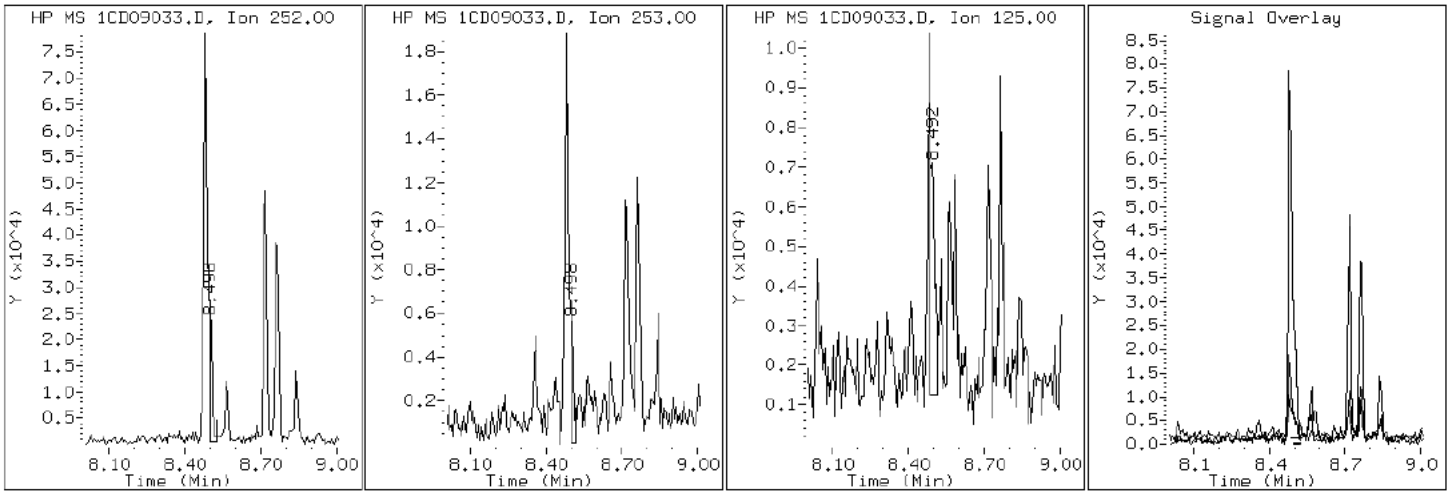
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

21 Benzo(k)fluoranthene



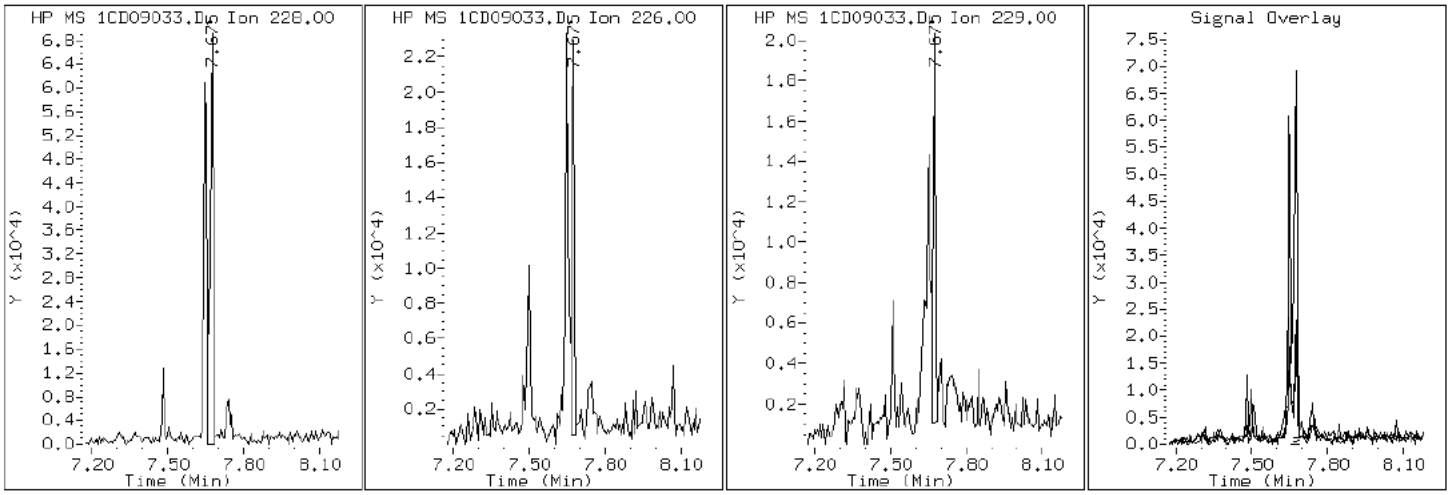
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

19 Chrysene



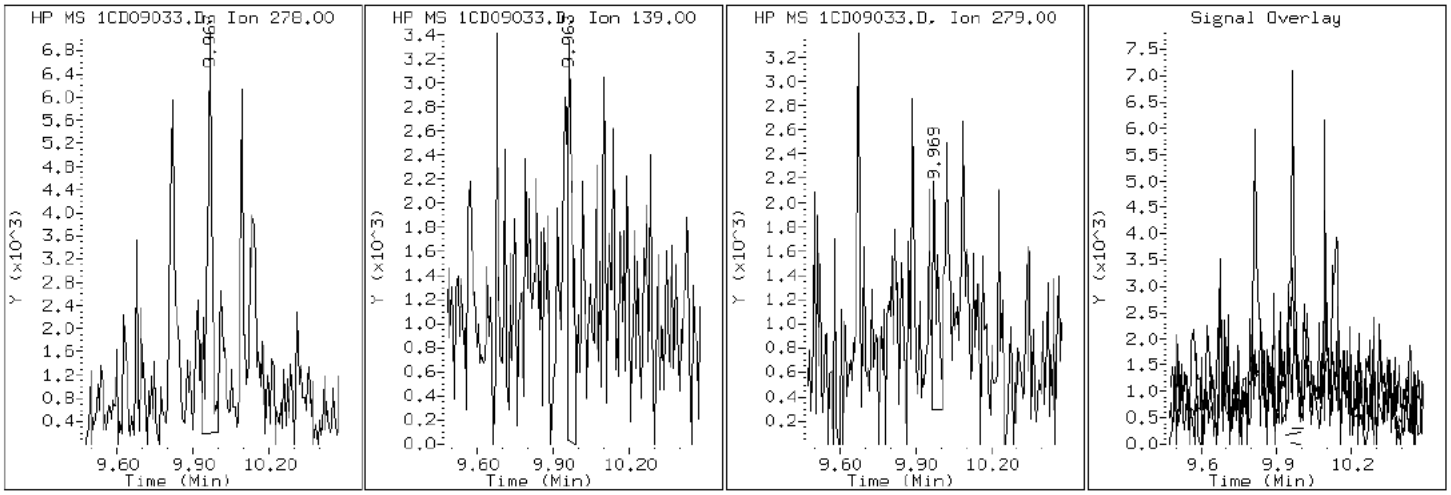
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

25 Dibenzo(a,h)anthracene



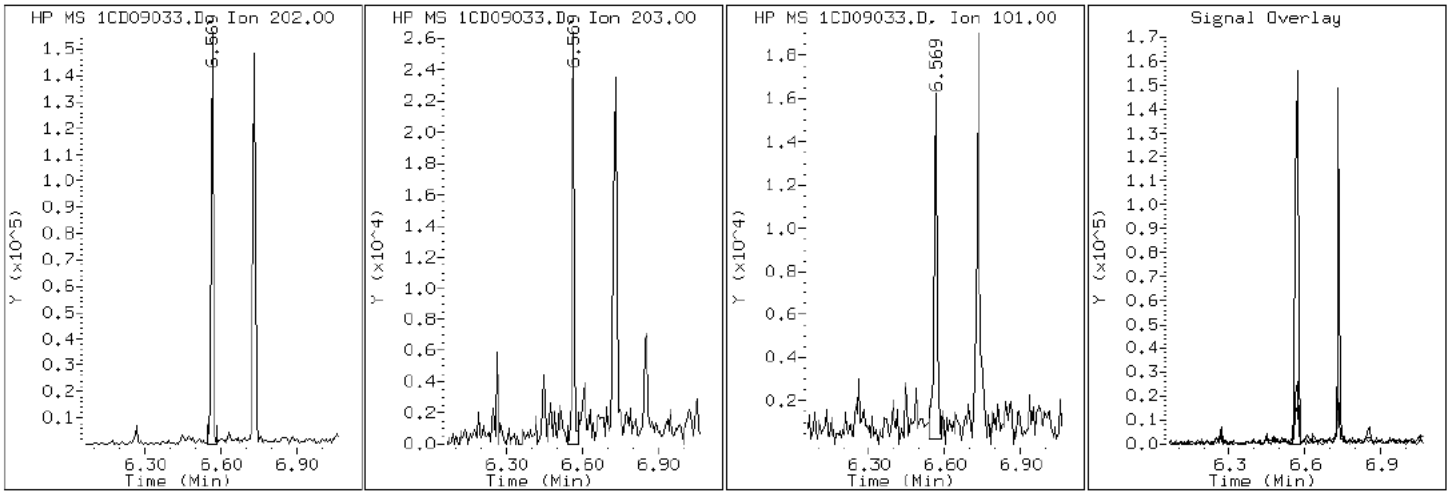
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

15 Fluoranthene



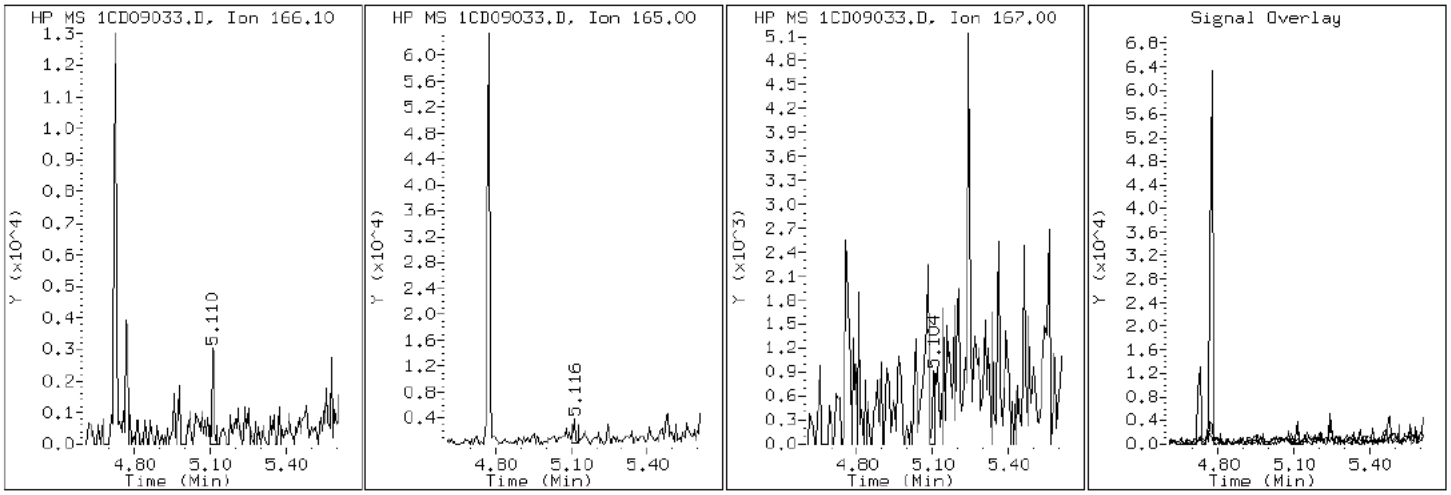
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

9 Fluorene



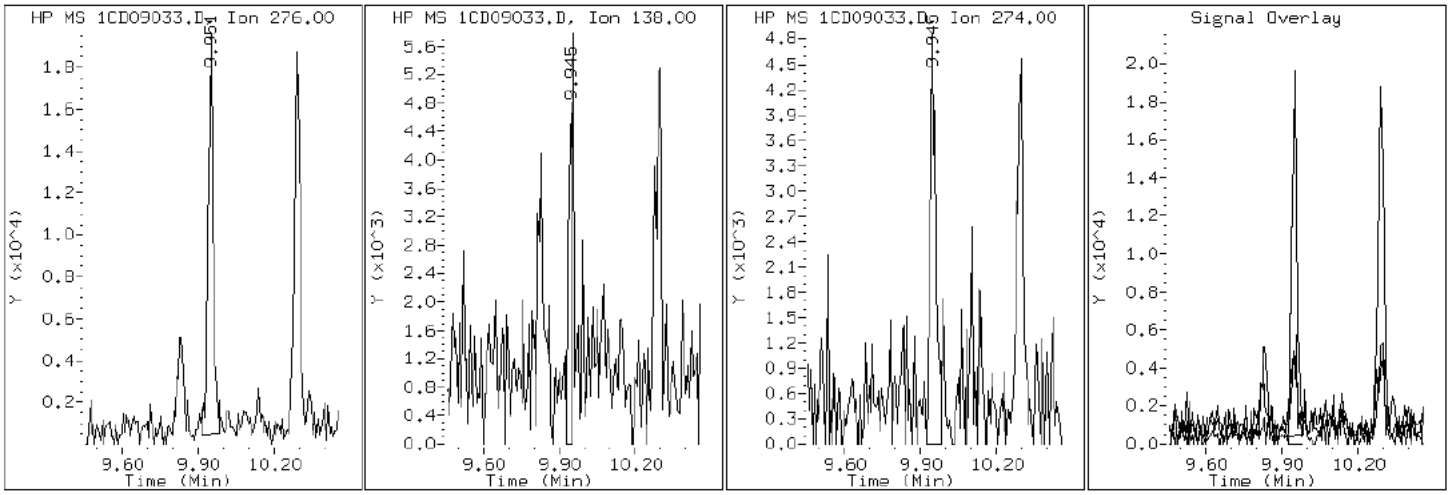
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

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



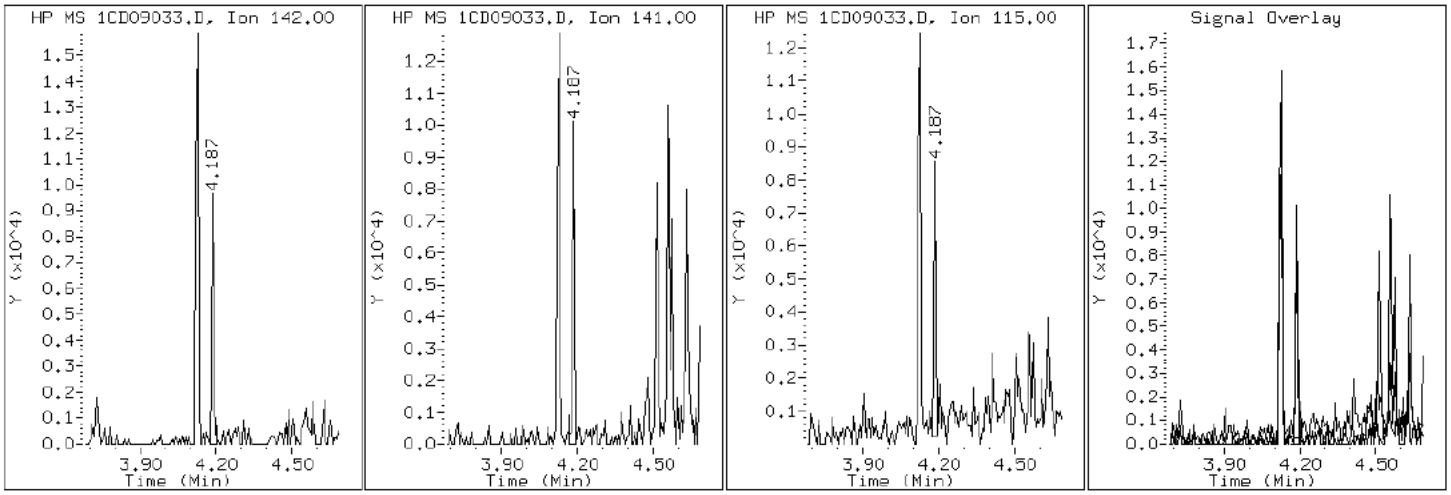
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

4 1-Methylnaphthalene



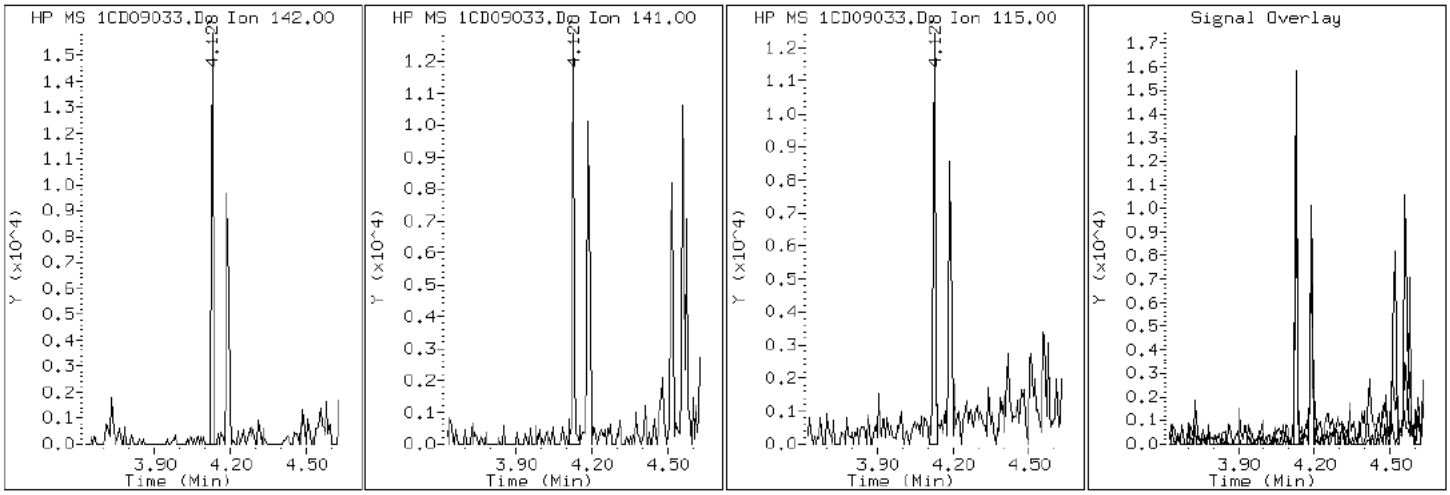
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

3 2-Methylnaphthalene



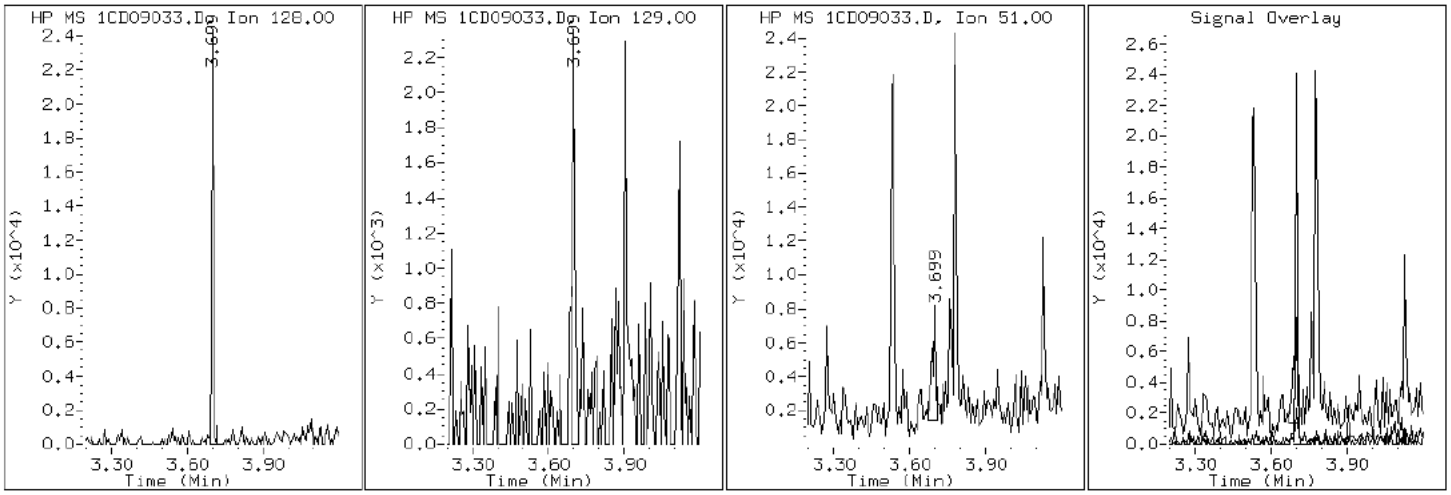
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

2 Naphthalene



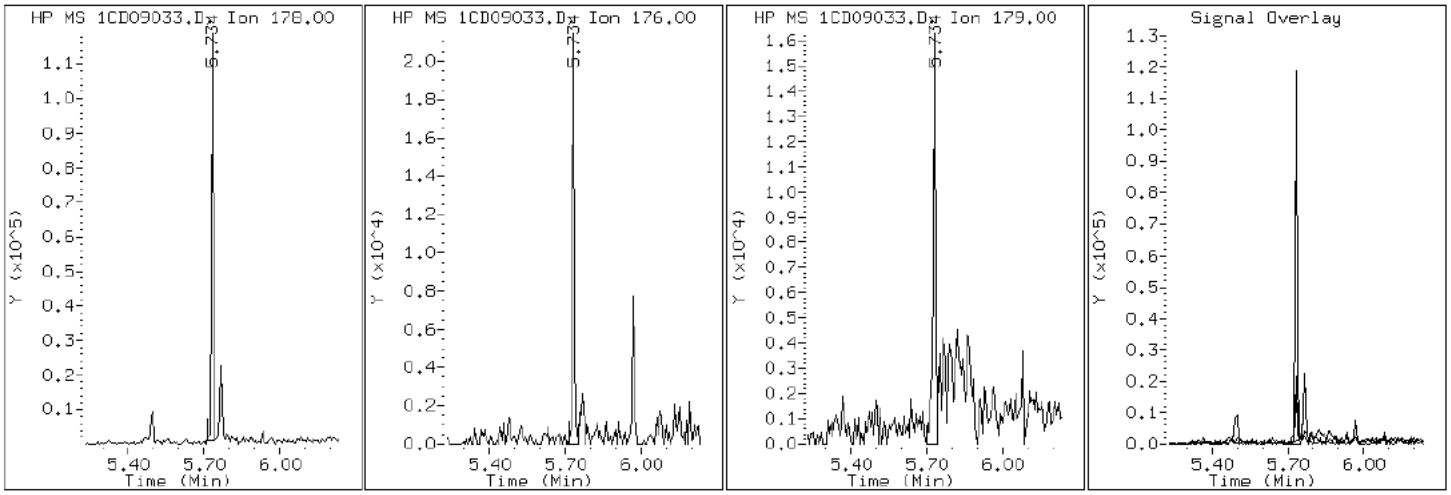
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

11 Phenanthrene



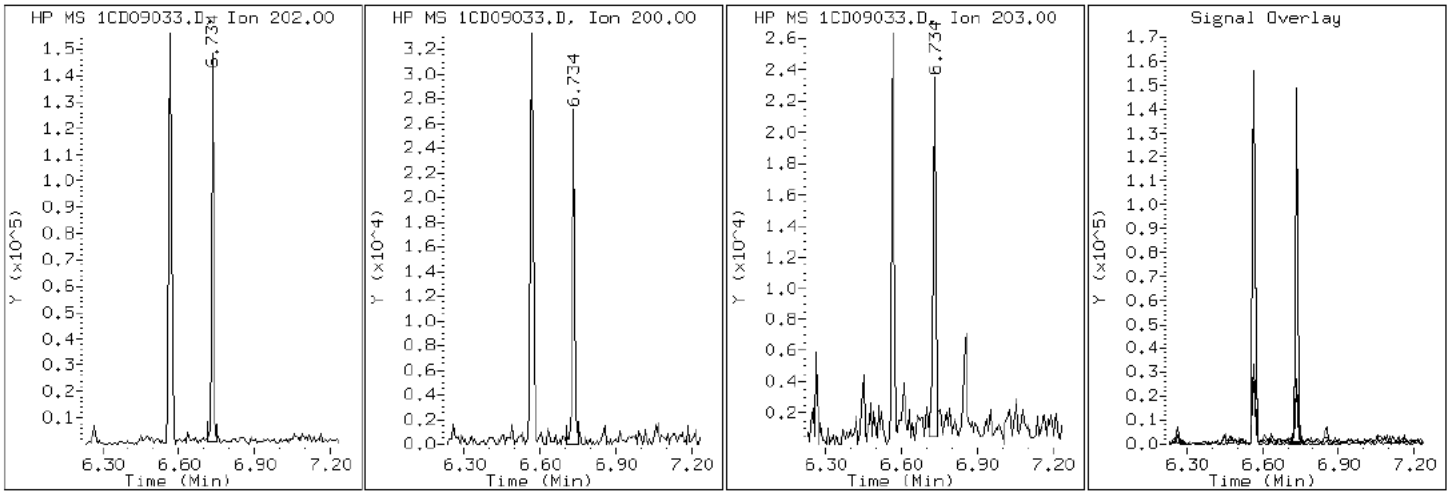
Data File: 1CD09033.D

Date: 09-APR-2013 21:01

Client ID: CV1123B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-57-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD09033.D
Inj. Date and Time: 09-APR-2013 21:01
Instrument ID: BSMC5973.i
Client ID: CV1123B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

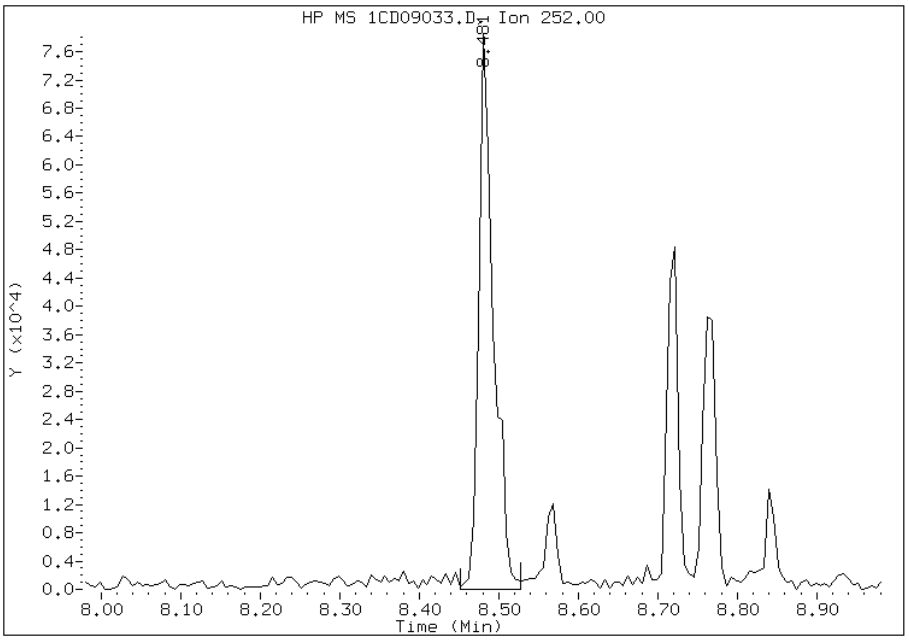
Processing Integration Results

RT: 8.48

Response: 101520

Amount: 7

Conc: 585



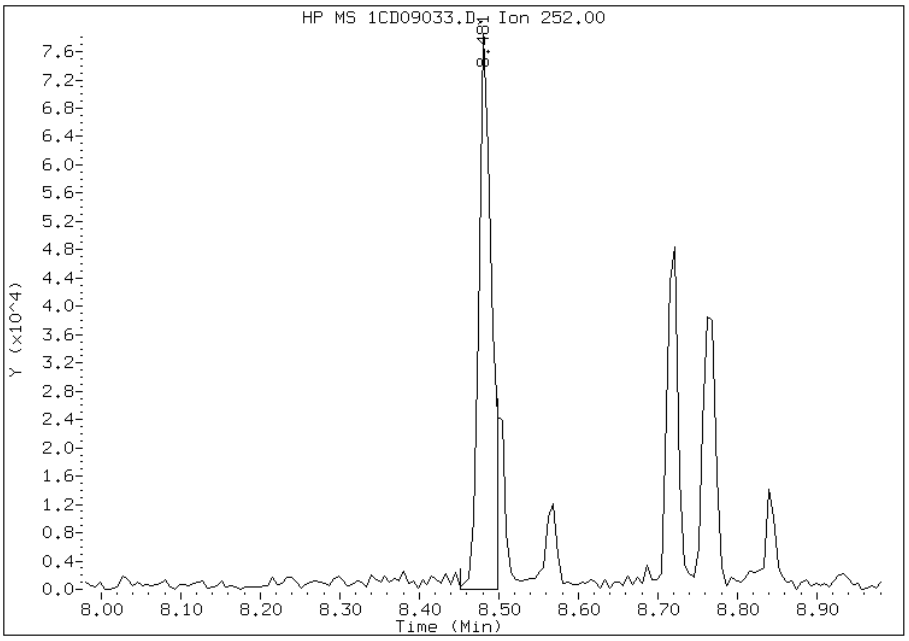
Manual Integration Results

RT: 8.48

Response: 88503

Amount: 6

Conc: 510



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:44
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09033.D
Inj. Date and Time: 09-APR-2013 21:01
Instrument ID: BSMC5973.i
Client ID: CV1123B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

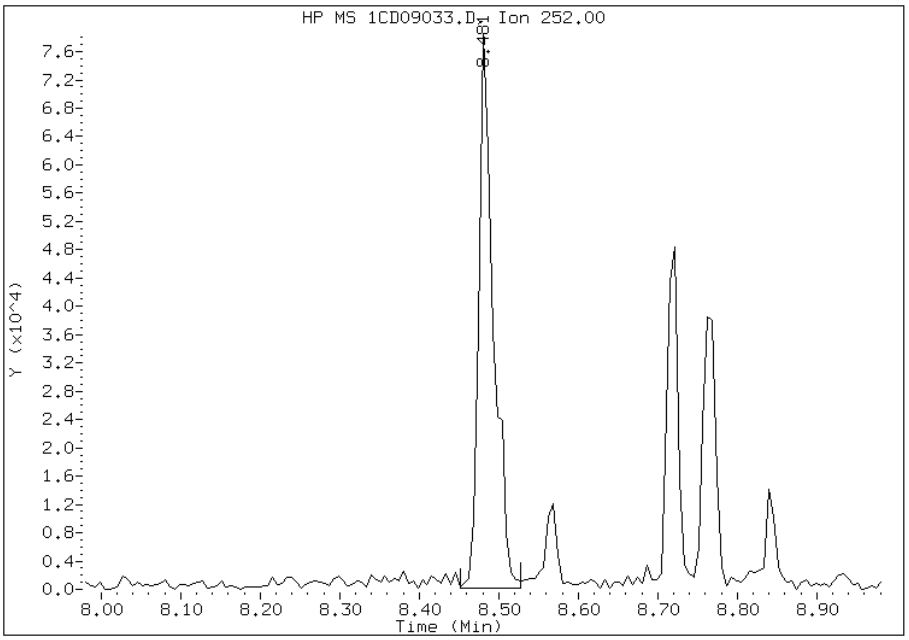
Processing Integration Results

RT: 8.48

Response: 100512

Amount: 7

Conc: 599



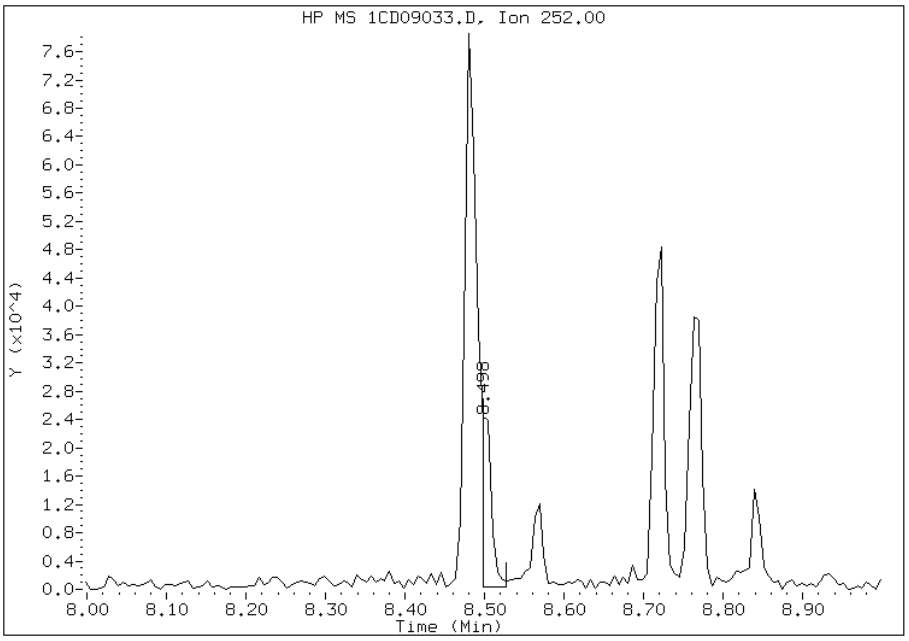
Manual Integration Results

RT: 8.50

Response: 20793

Amount: 2

Conc: 124



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:44
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1125A-CS | Lab Sample ID: 680-88811-58

Matrix: Solid | Lab File ID: 1CD10005.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 10:06

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.22(g) | Date Analyzed: 04/10/2013 12:47

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

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

% Moisture: 14.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136309 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	460	U	460	92
208-96-8	Acenaphthylene	33	J	180	23
120-12-7	Anthracene	31	J	39	19
56-55-3	Benzo[a]anthracene	220		37	18
50-32-8	Benzo[a]pyrene	190		48	24
205-99-2	Benzo[b]fluoranthene	240		56	28
191-24-2	Benzo[g,h,i]perylene	200		92	20
207-08-9	Benzo[k]fluoranthene	150		37	17
218-01-9	Chrysene	290		41	21
53-70-3	Dibenz(a,h)anthracene	89	J	92	19
206-44-0	Fluoranthene	290		92	18
86-73-7	Fluorene	92	U	92	19
193-39-5	Indeno[1,2,3-cd]pyrene	110		92	33
90-12-0	1-Methylnaphthalene	92	J	180	20
91-57-6	2-Methylnaphthalene	62	J	180	33
91-20-3	Naphthalene	87	J	180	20
85-01-8	Phenanthrene	250		37	18
129-00-0	Pyrene	250		92	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	92		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10005.D
Lab Smp Id: 680-88811-A-58-A Client Smp ID: CV1125A-CS
Inj Date : 10-APR-2013 12:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-58-a
Misc Info : 680-88811-A-58-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 5
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.220	Weight Extracted
M	14.286	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.680	3.680	(1.000)	307394	40.0000	
* 6 Acenaphthene-d10	164	4.769	4.768	(1.000)	220780	40.0000	
* 10 Phenanthrene-d10	188	5.710	5.710	(1.000)	411244	40.0000	
$ 14 o-Terphenyl	230	5.963	5.963	(1.044)	10515	2.29186	702.7173
* 18 Chrysene-d12	240	7.645	7.645	(1.000)	514167	40.0000	
* 23 Perylene-d12	264	8.809	8.809	(1.000)	540026	40.0000	
2 Naphthalene	128	3.692	3.692	(1.003)	2241	0.28384	87.0287(Q)
3 2-Methylnaphthalene	142	4.121	4.121	(1.120)	1083	0.20151	61.7850(Q)
4 1-Methylnaphthalene	142	4.180	4.180	(1.136)	1456	0.30108	92.3140(Q)
5 Acenaphthylene	152	4.680	4.680	(0.982)	981	0.10736	32.9178(Q)
11 Phenanthrene	178	5.727	5.727	(1.003)	9690	0.80903	248.0593
12 Anthracene	178	5.757	5.763	(1.008)	1217	0.10023	30.7333(Q)
13 Carbazole	167	5.868	5.868	(1.028)	1742	0.16746	51.3471(Q)
15 Fluoranthene	202	6.557	6.557	(1.148)	12542	0.94818	290.7250

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Pyrene	202	6.727	6.727	(0.880)	11825	0.83024	254.5641
17 Benzo(a)anthracene	228	7.639	7.639	(0.999)	8707	0.72007	220.7839
19 Chrysene	228	7.662	7.668	(1.002)	14009	0.95615	293.1681
20 Benzo(b)fluoranthene	252	8.474	8.474	(0.962)	11842	0.77566	237.8283(M)
21 Benzo(k)fluoranthene	252	8.480	8.498	(0.963)	7132	0.48300	148.0957(M)
22 Benzo(a)pyrene	252	8.751	8.756	(0.993)	9043	0.62914	192.9041
24 Indeno(1,2,3-cd)pyrene	276	9.933	9.939	(1.128)	5096	0.37328	114.4515(M)
25 Dibenzo(a,h)anthracene	278	9.933	9.950	(1.128)	3663	0.29045	89.0569(MH)
26 Benzo(g,h,i)perylene	276	10.268	10.280	(1.166)	9197	0.66006	202.3832(M)

QC Flag Legend

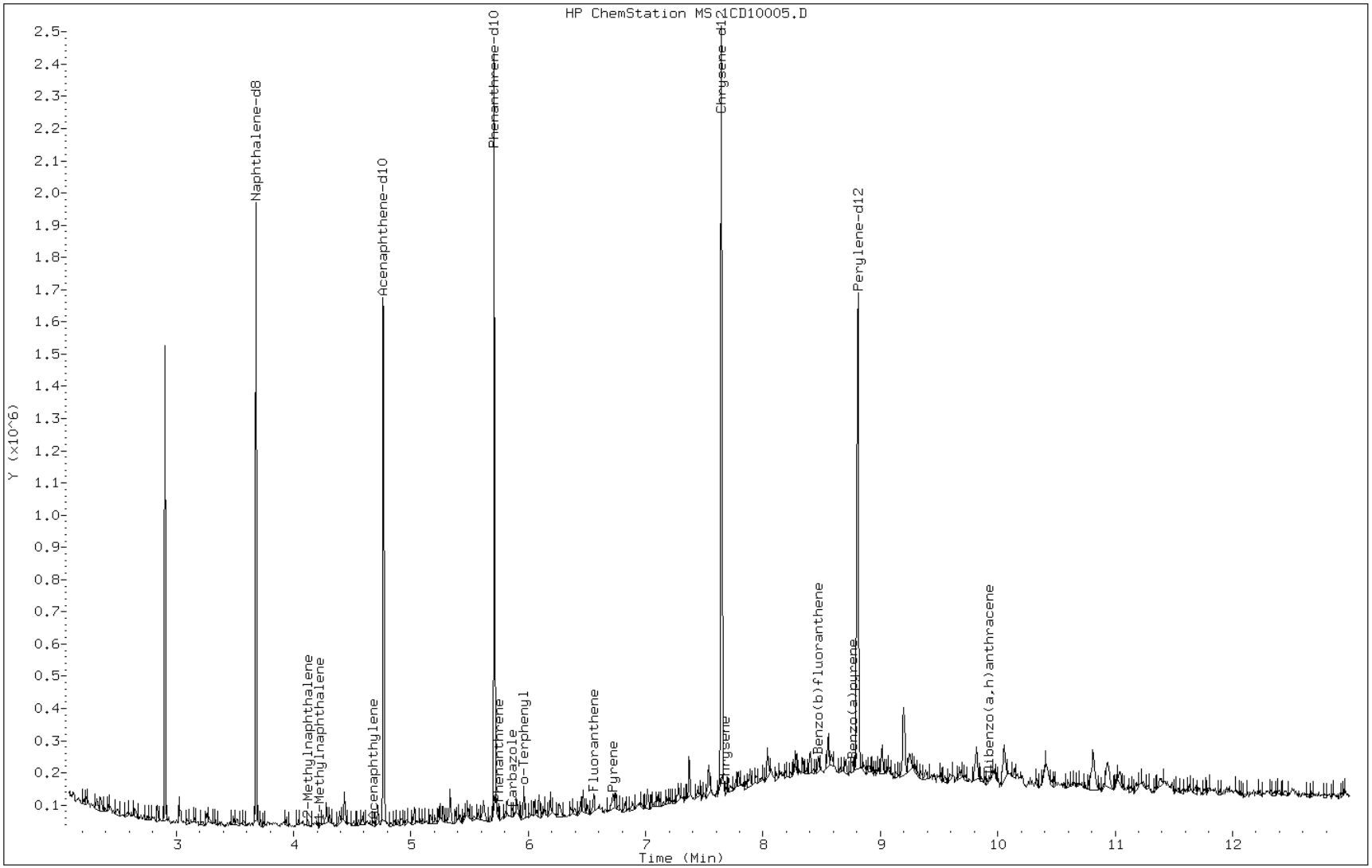
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD10005.D

Date: 10-APR-2013 12:47

Client ID: CV1125A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-58-a Operator: SCC



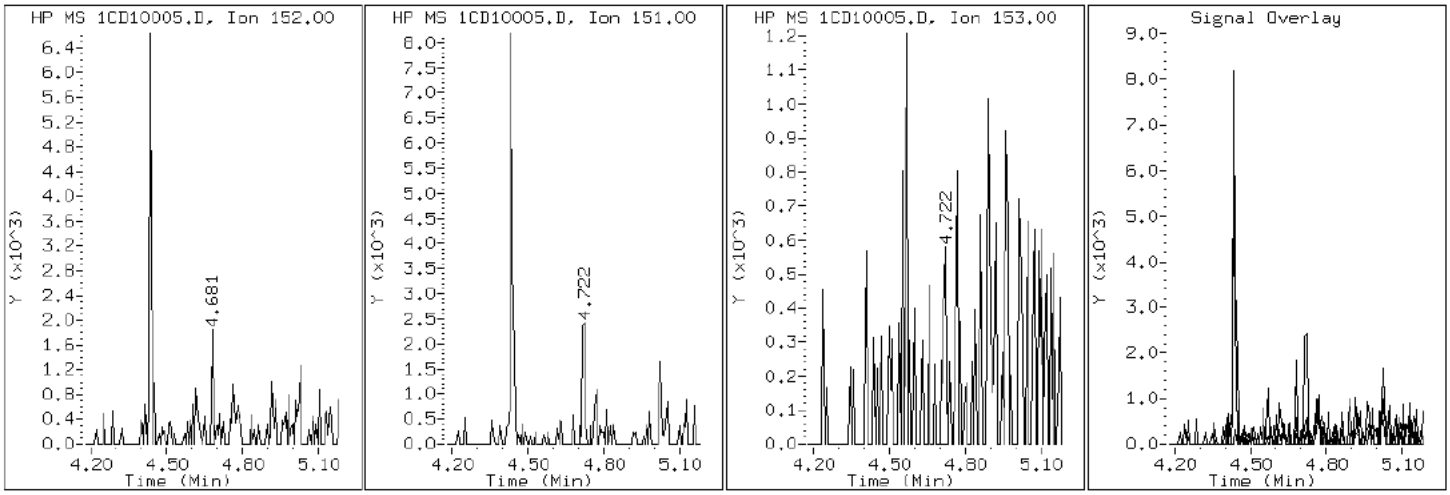
Data File: 1CD10005.D

Date: 10-APR-2013 12:47

Client ID: CV1125A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-58-a Operator: SCC

5 Acenaphthylene



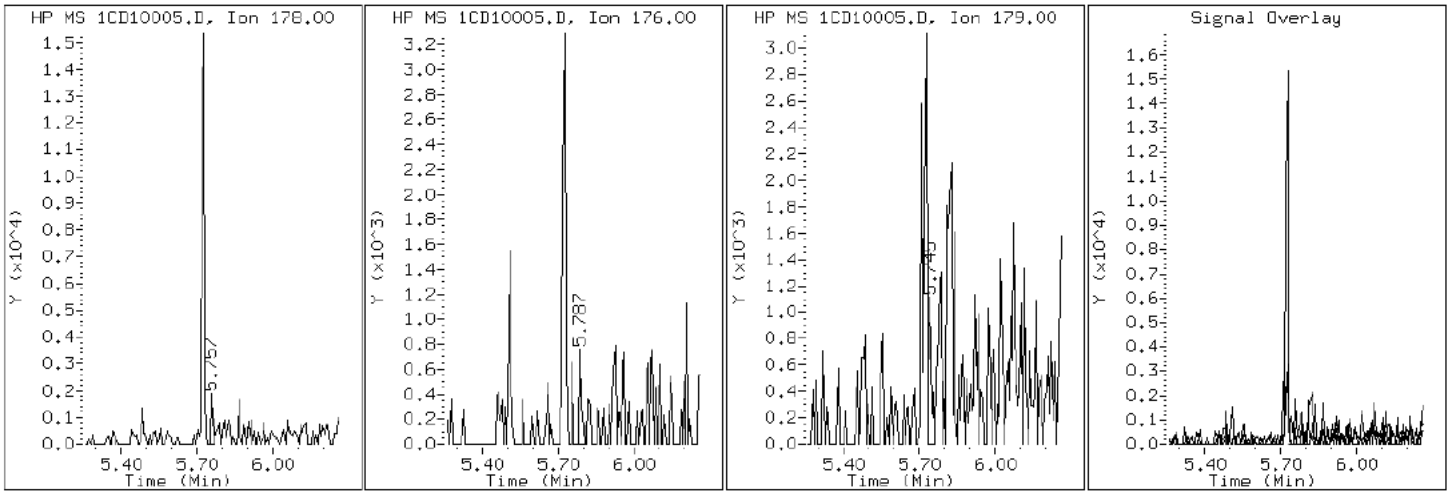
Data File: 1CD10005.D

Date: 10-APR-2013 12:47

Client ID: CV1125A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-58-a Operator: SCC

12 Anthracene



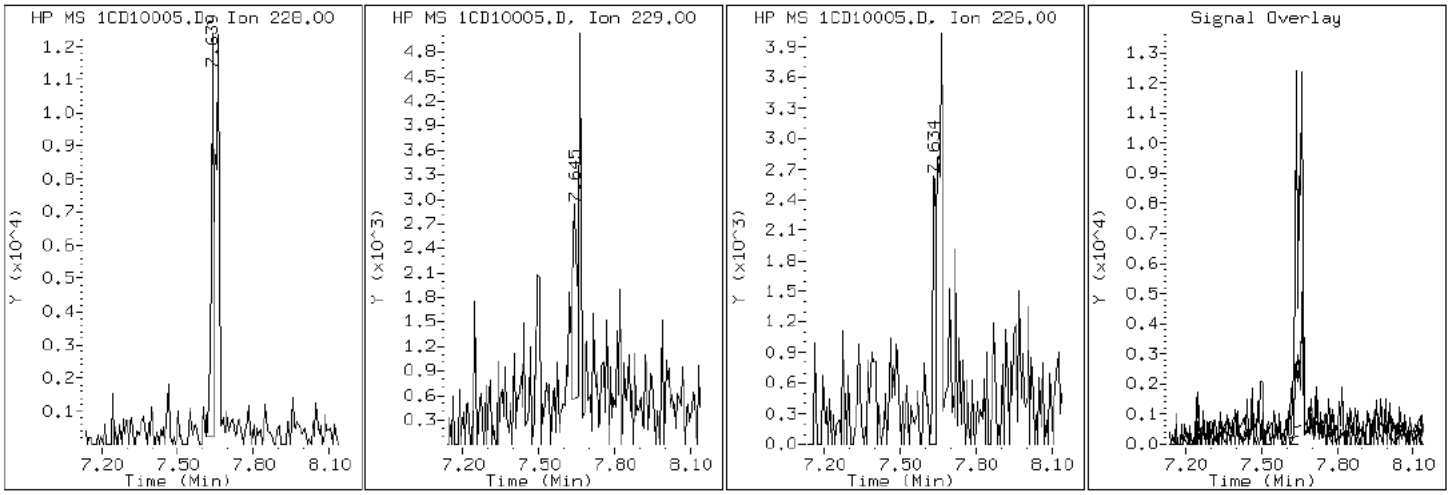
Data File: 1CD10005.D

Date: 10-APR-2013 12:47

Client ID: CV1125A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-58-a Operator: SCC

17 Benzo(a)anthracene



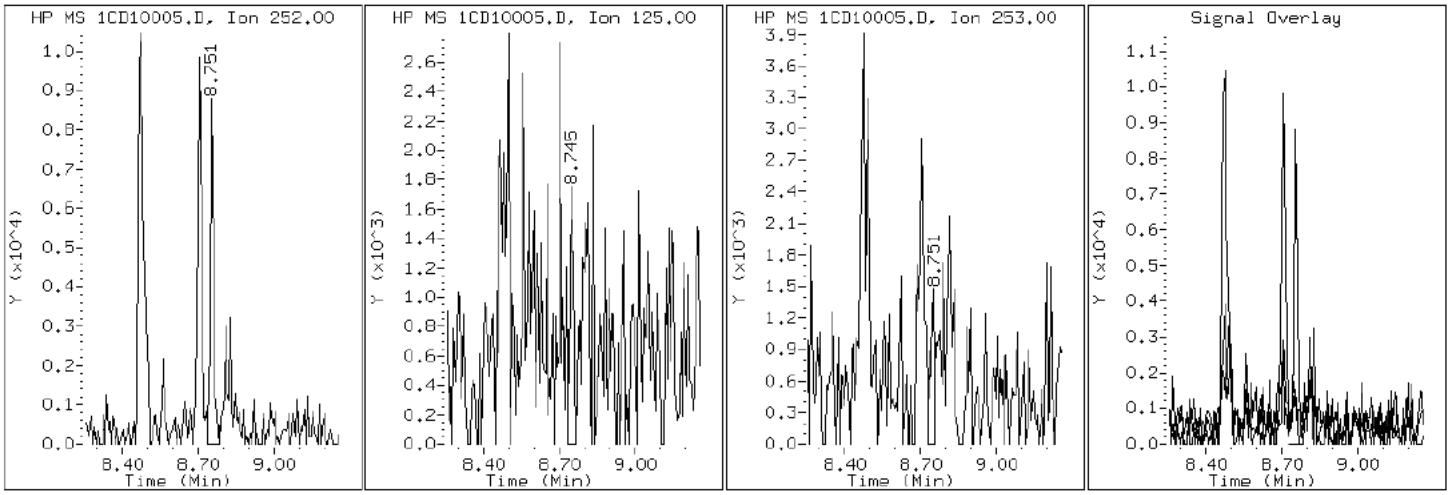
Data File: 1CD10005.D

Date: 10-APR-2013 12:47

Client ID: CV1125A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-58-a Operator: SCC

22 Benzo(a)pyrene



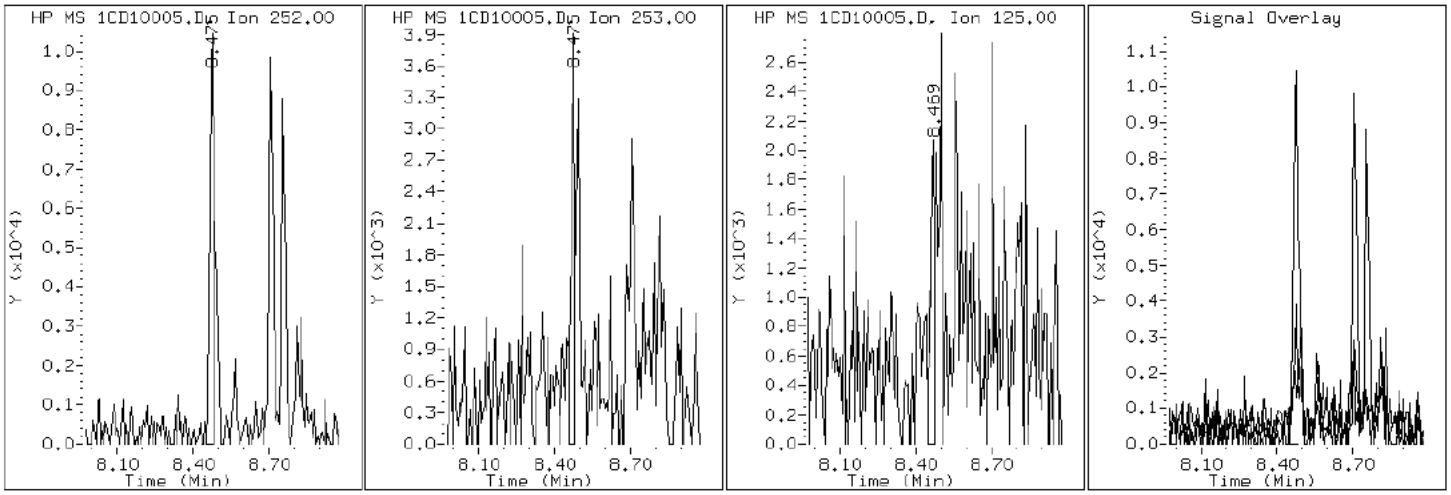
Data File: 1CD10005.D

Date: 10-APR-2013 12:47

Client ID: CV1125A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-58-a Operator: SCC

20 Benzo(b)fluoranthene



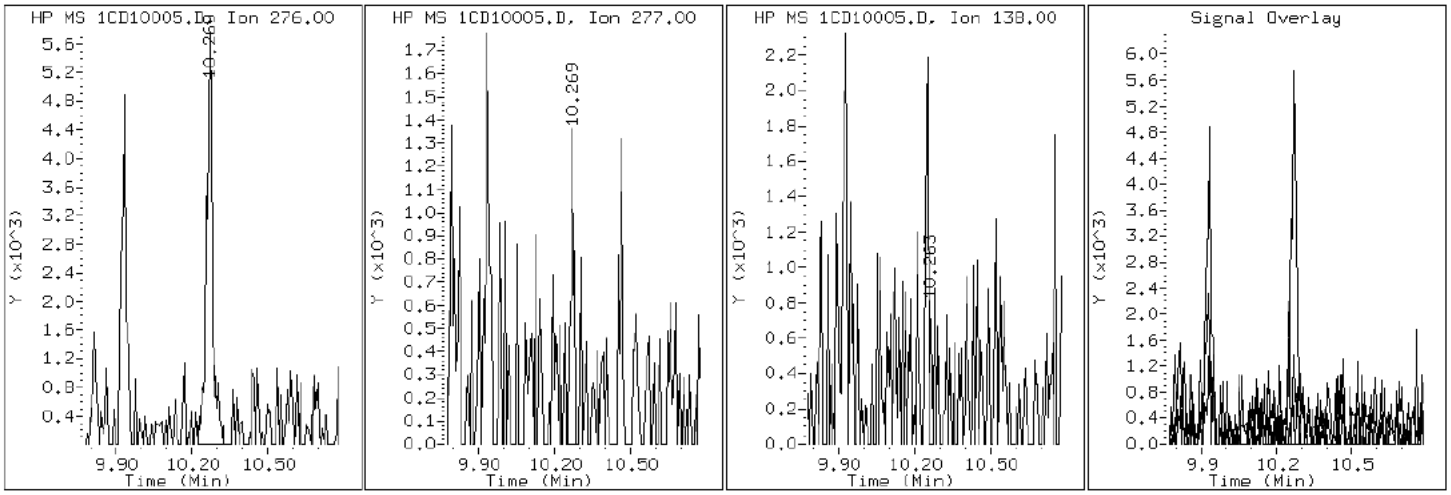
Data File: 1CD10005.D

Date: 10-APR-2013 12:47

Client ID: CV1125A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-58-a Operator: SCC

26 Benzo(g,h,i)perylene



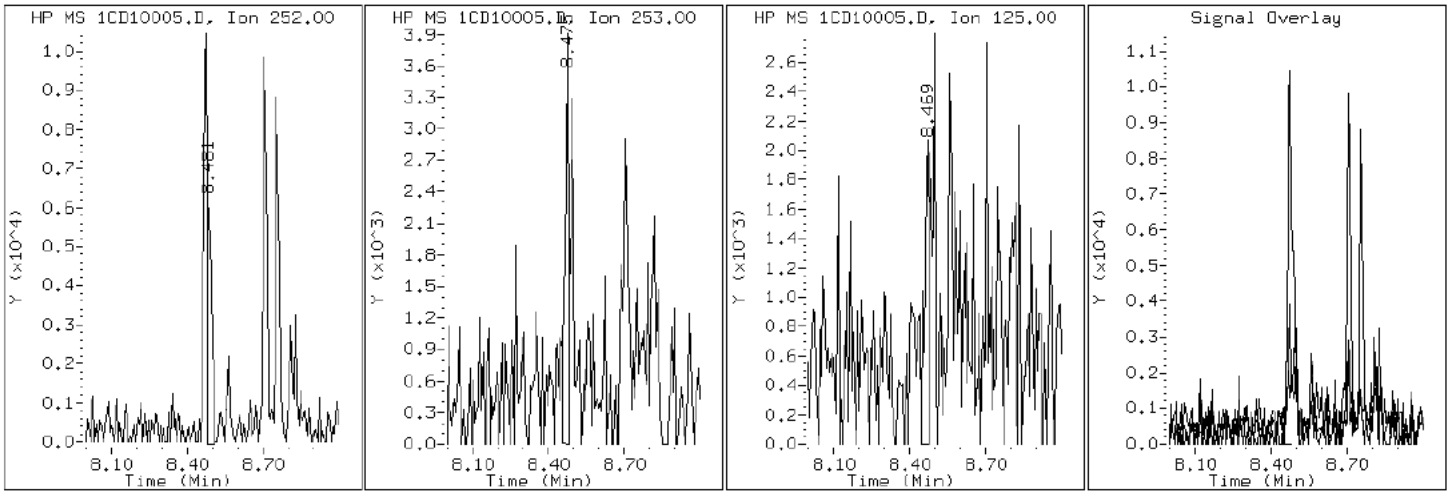
Data File: 1CD10005.D

Date: 10-APR-2013 12:47

Client ID: CV1125A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-58-a Operator: SCC

21 Benzo(k)fluoranthene



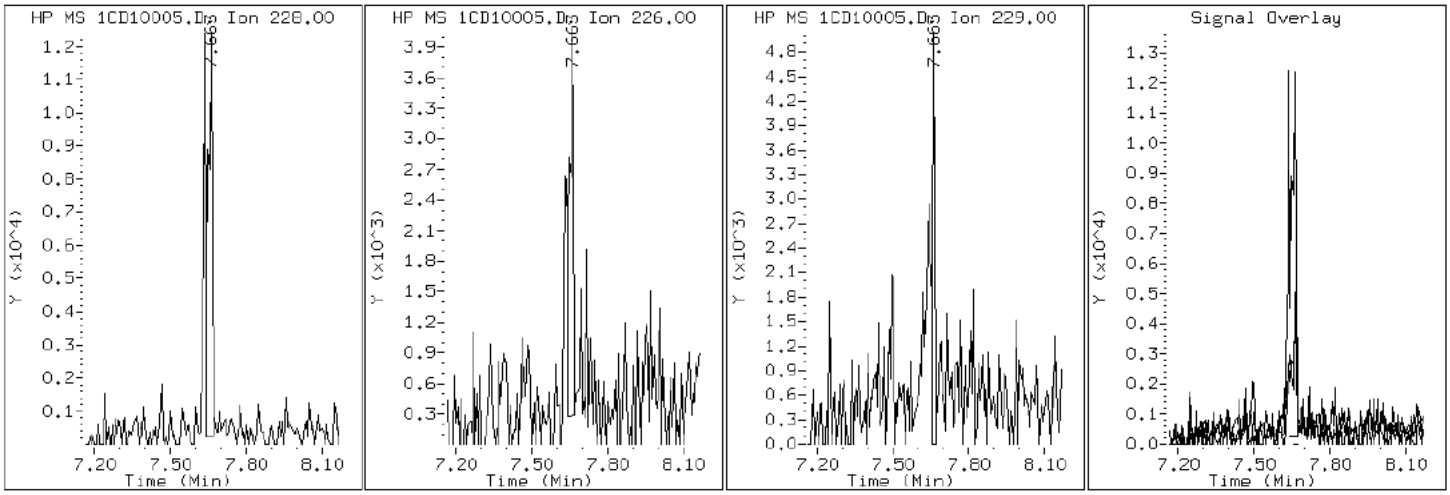
Data File: 1CD10005.D

Date: 10-APR-2013 12:47

Client ID: CV1125A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-58-a Operator: SCC

19 Chrysene



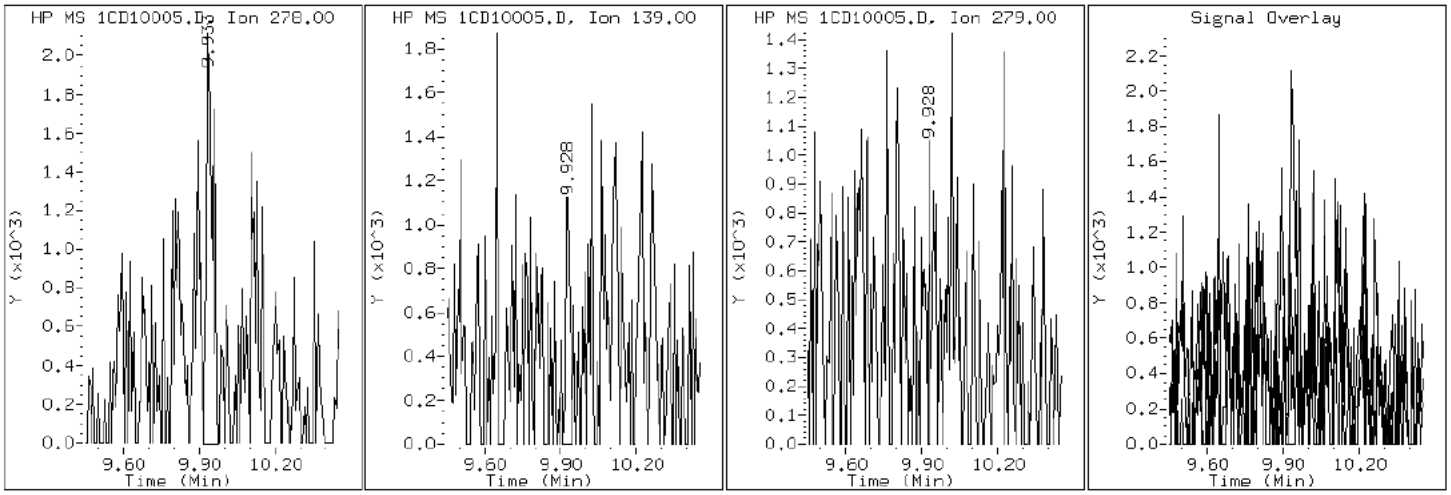
Data File: 1CD10005.D

Date: 10-APR-2013 12:47

Client ID: CV1125A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-58-a Operator: SCC

25 Dibenzo(a,h)anthracene



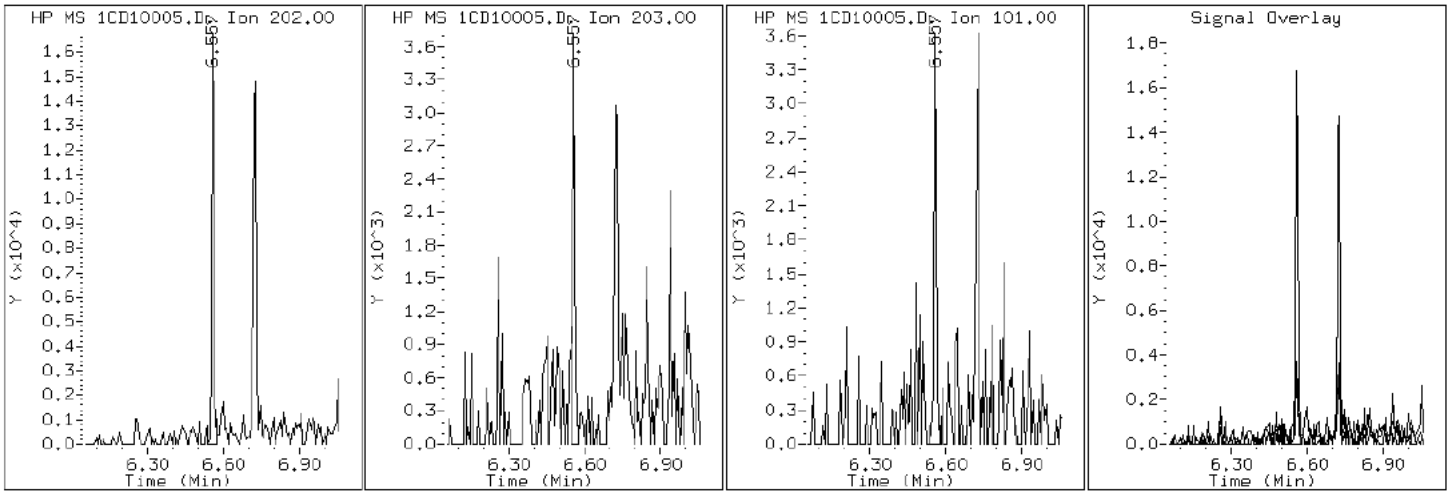
Data File: 1CD10005.D

Date: 10-APR-2013 12:47

Client ID: CV1125A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-58-a Operator: SCC

15 Fluoranthene



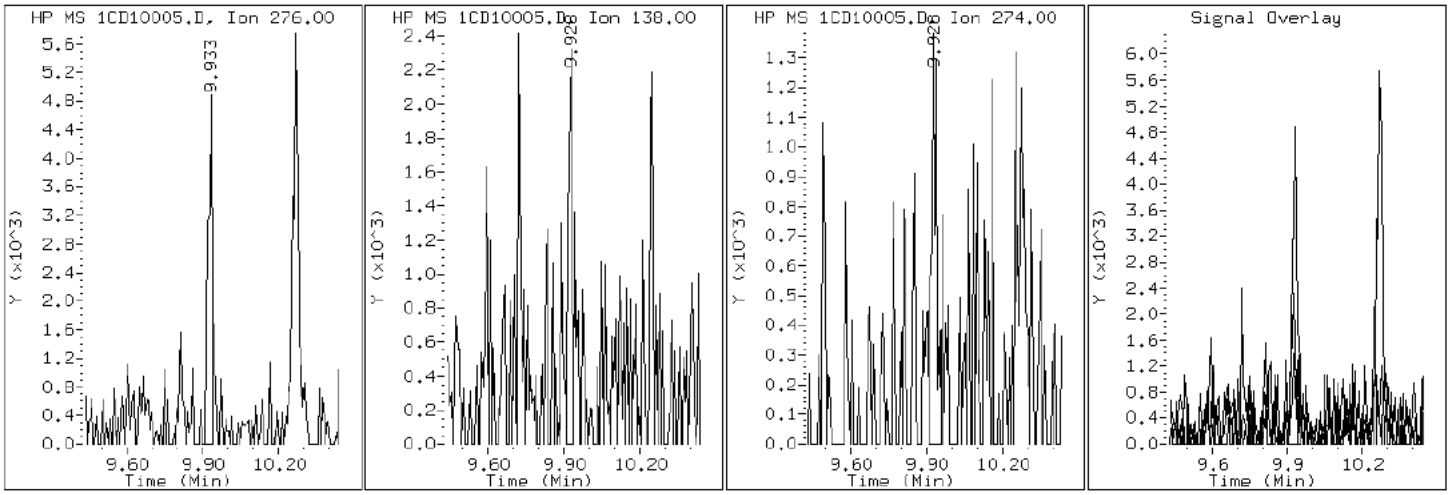
Data File: 1CD10005.D

Date: 10-APR-2013 12:47

Client ID: CV1125A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-58-a Operator: SCC

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



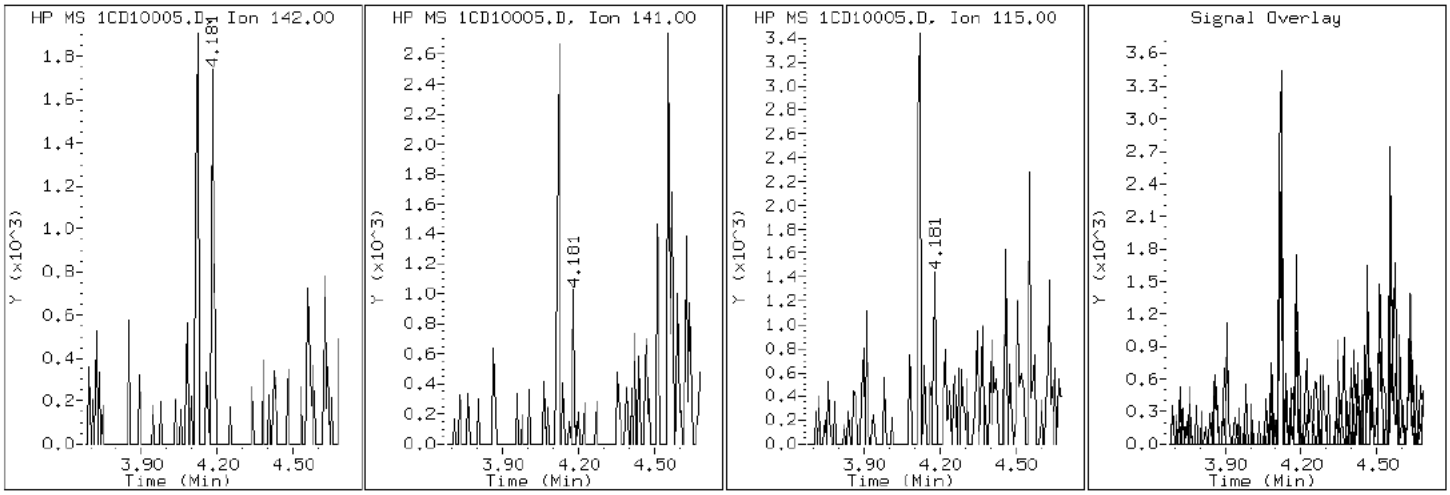
Data File: 1CD10005.D

Date: 10-APR-2013 12:47

Client ID: CV1125A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-58-a Operator: SCC

4 1-Methylnaphthalene



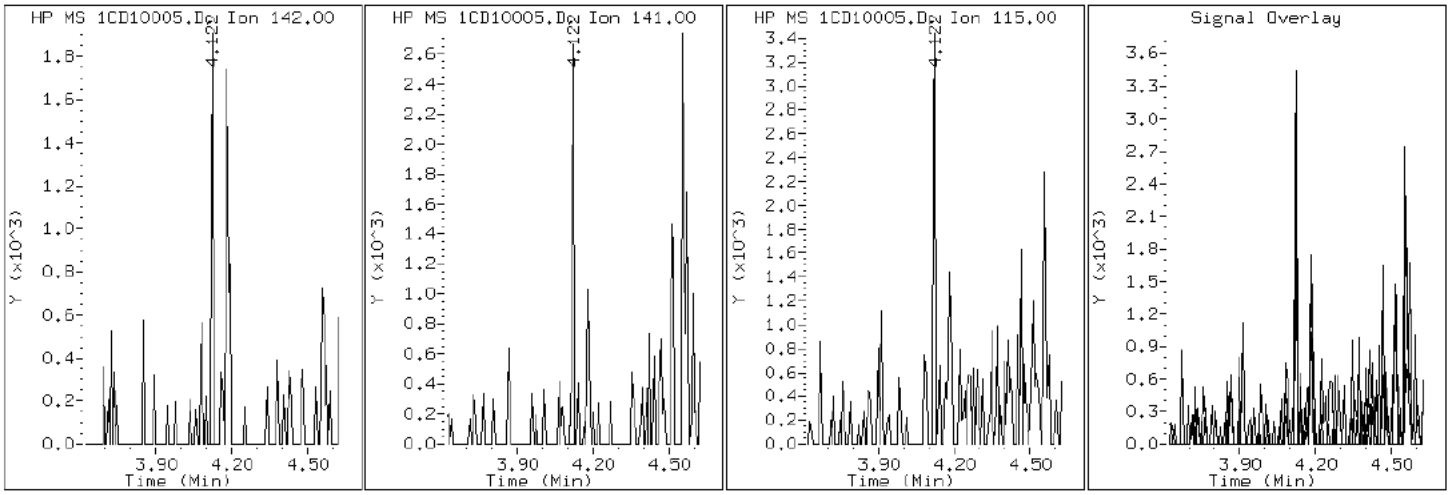
Data File: 1CD10005.D

Date: 10-APR-2013 12:47

Client ID: CV1125A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-58-a Operator: SCC

3 2-Methylnaphthalene



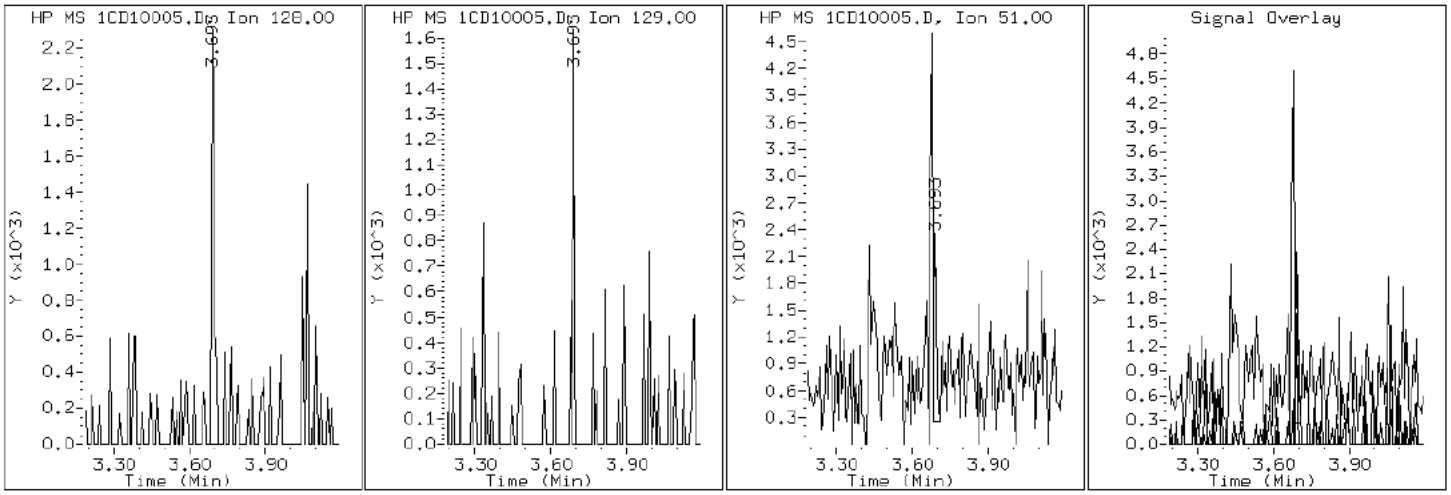
Data File: 1CD10005.D

Date: 10-APR-2013 12:47

Client ID: CV1125A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-58-a Operator: SCC

2 Naphthalene



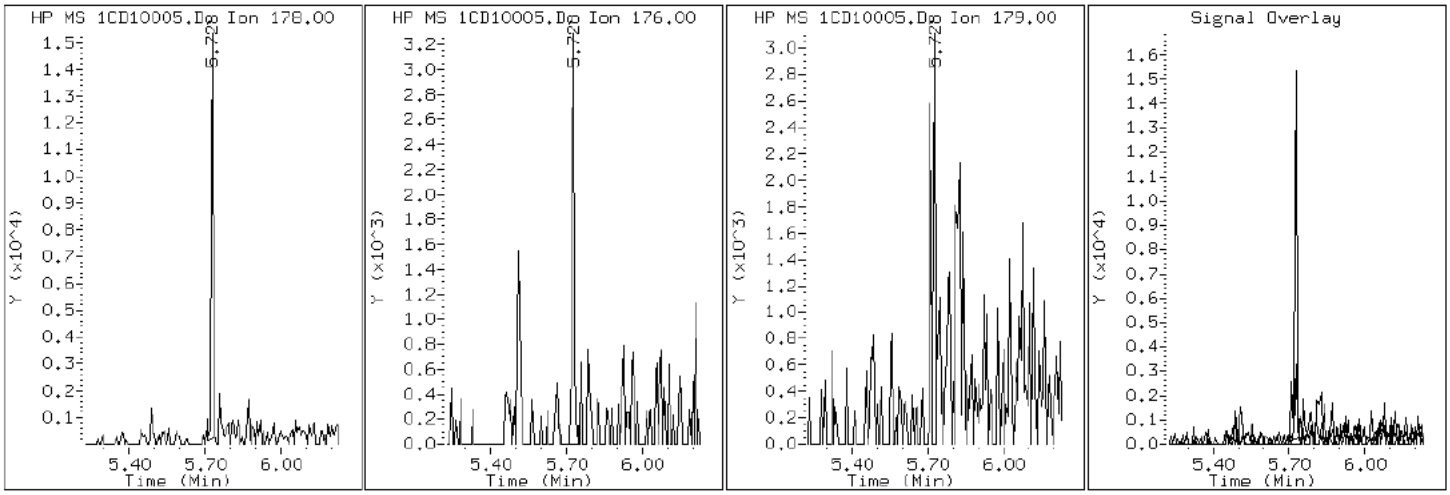
Data File: 1CD10005.D

Date: 10-APR-2013 12:47

Client ID: CV1125A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-58-a Operator: SCC

11 Phenanthrene



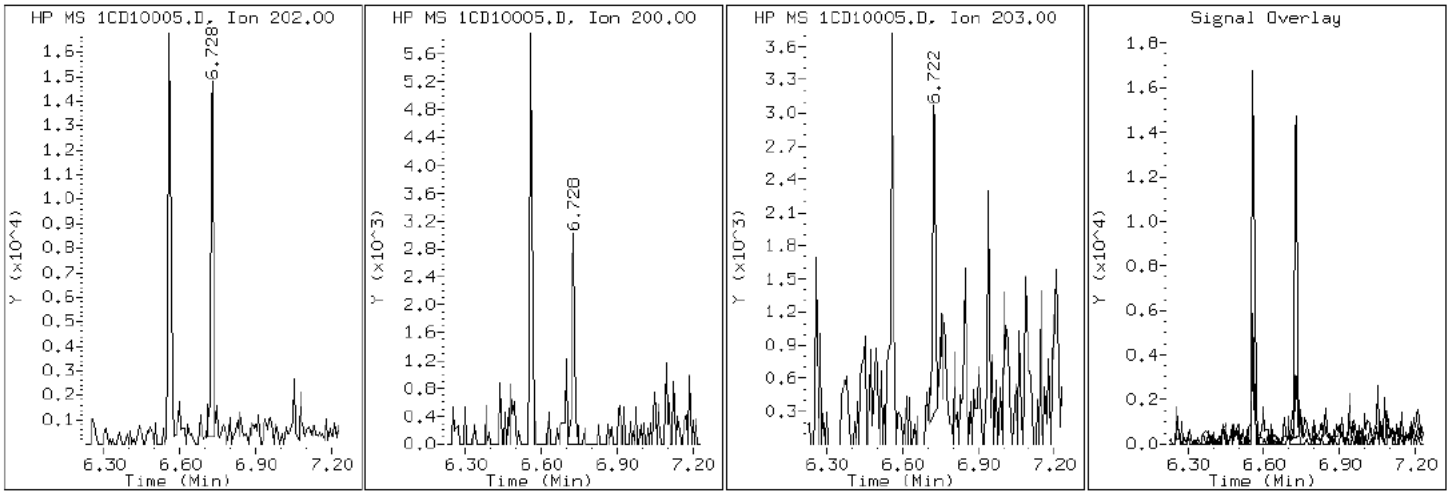
Data File: 1CD10005.D

Date: 10-APR-2013 12:47

Client ID: CV1125A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-58-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD10005.D
Inj. Date and Time: 10-APR-2013 12:47
Instrument ID: BSMC5973.i
Client ID: CV1125A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

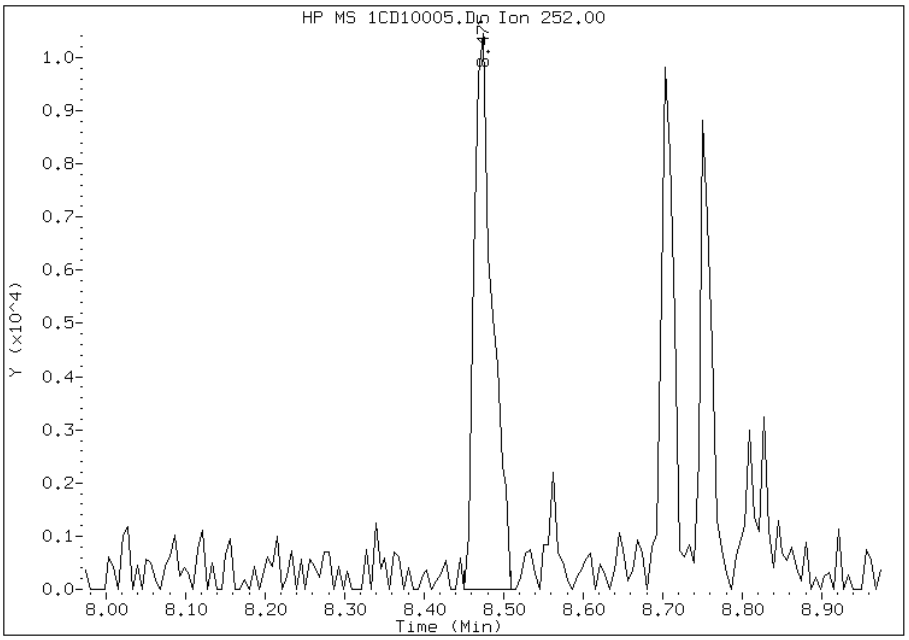
Processing Integration Results

RT: 8.47

Response: 16632

Amount: 1

Conc: 334



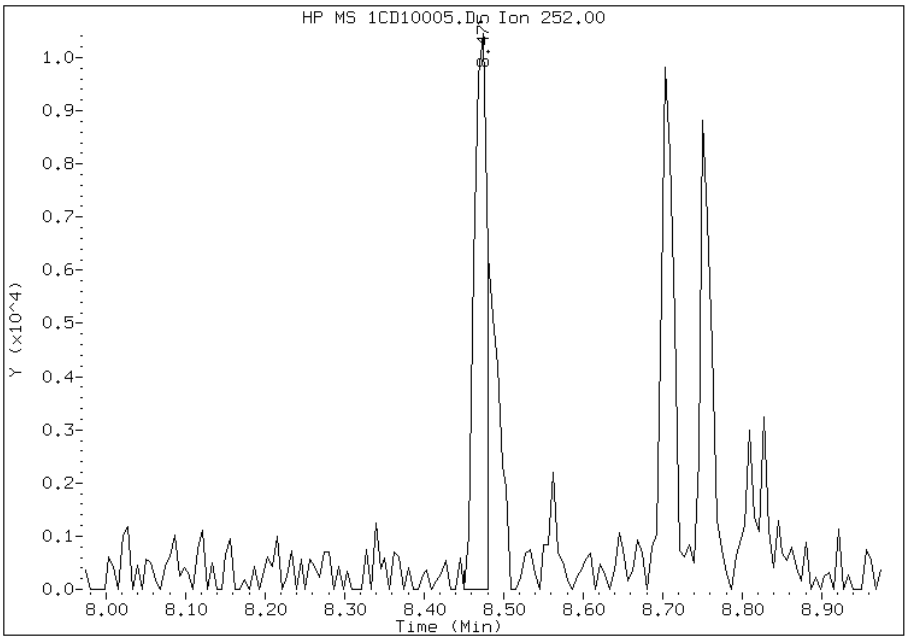
Manual Integration Results

RT: 8.47

Response: 11842

Amount: 1

Conc: 238



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 13:41
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD10005.D
Inj. Date and Time: 10-APR-2013 12:47
Instrument ID: BSMC5973.i
Client ID: CV1125A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/10/2013

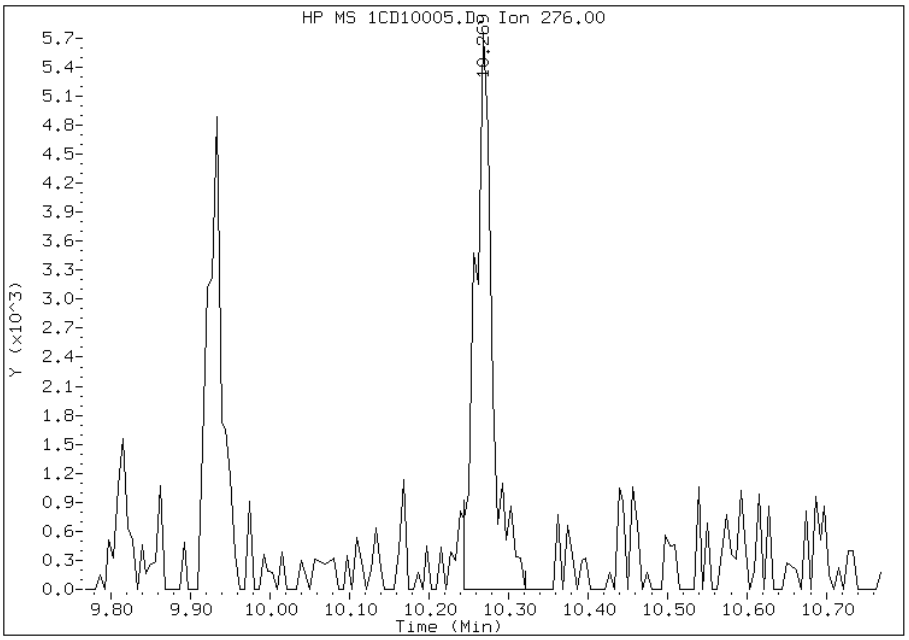
Processing Integration Results

RT: 10.27

Response: 8709

Amount: 1

Conc: 192



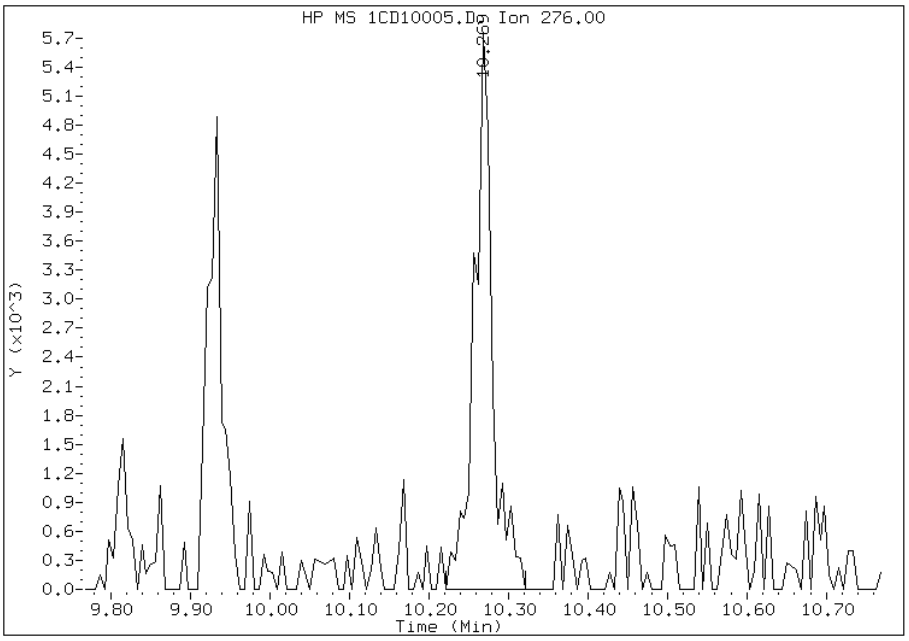
Manual Integration Results

RT: 10.27

Response: 9197

Amount: 1

Conc: 202



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 13:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10005.D
Inj. Date and Time: 10-APR-2013 12:47
Instrument ID: BSMC5973.i
Client ID: CV1125A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

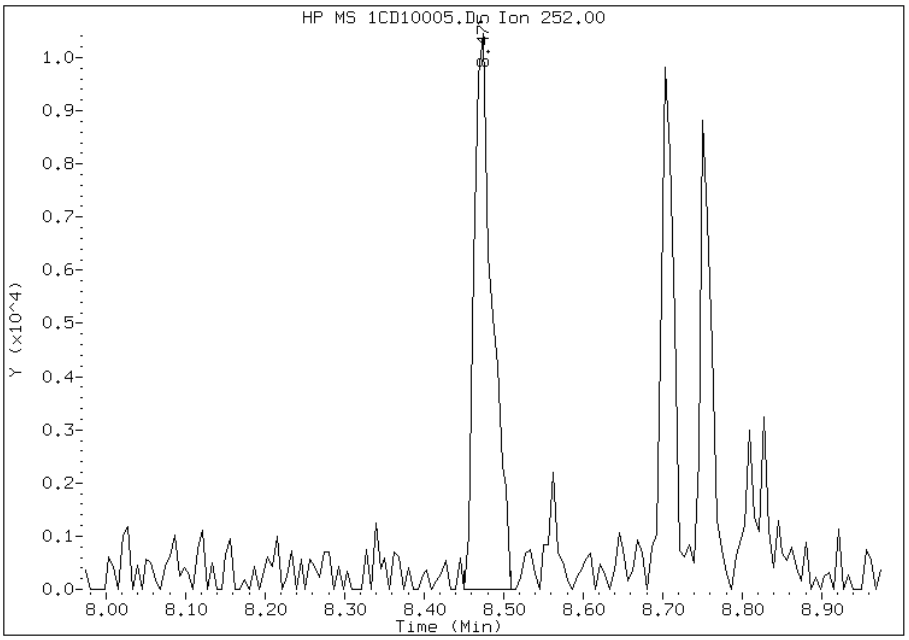
Processing Integration Results

RT: 8.47

Response: 16632

Amount: 1

Conc: 345



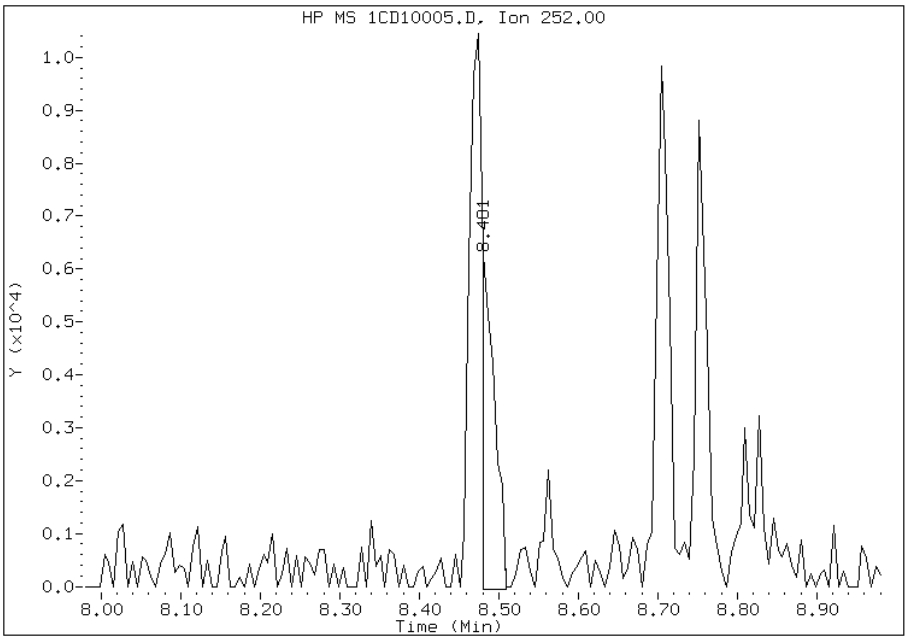
Manual Integration Results

RT: 8.48

Response: 7132

Amount: 0

Conc: 148



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 13:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10005.D
Inj. Date and Time: 10-APR-2013 12:47
Instrument ID: BSMC5973.i
Client ID: CV1125A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/10/2013

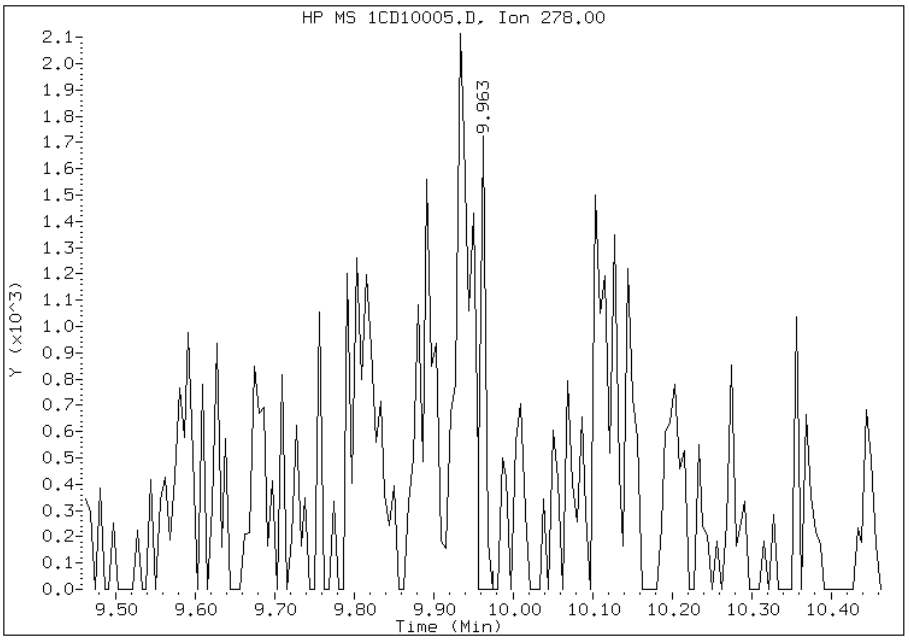
Processing Integration Results

RT: 9.96

Response: 834

Amount: 0

Conc: 20



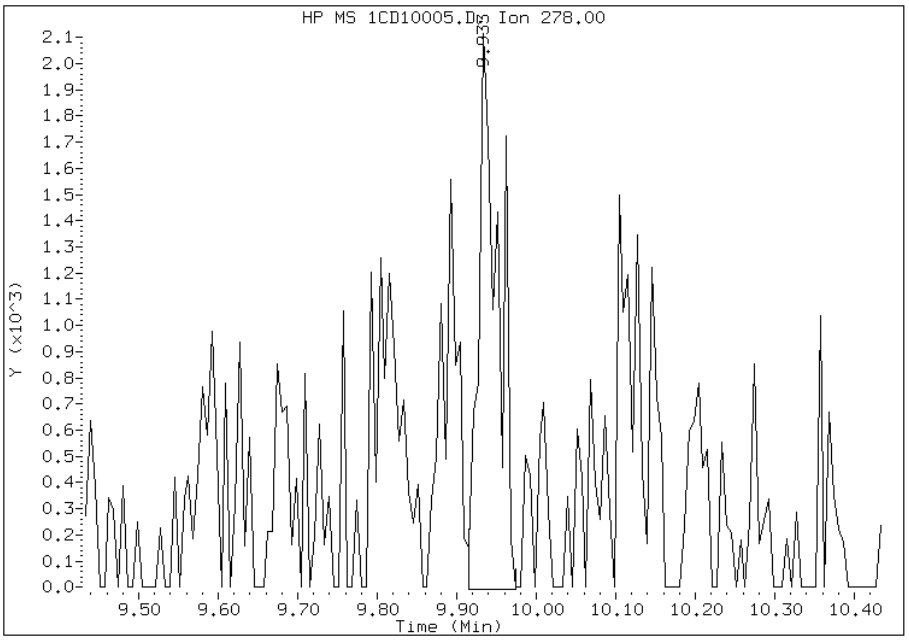
Manual Integration Results

RT: 9.93

Response: 3663

Amount: 0

Conc: 89



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 13:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10005.D
Inj. Date and Time: 10-APR-2013 12:47
Instrument ID: BSMC5973.i
Client ID: CV1125A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

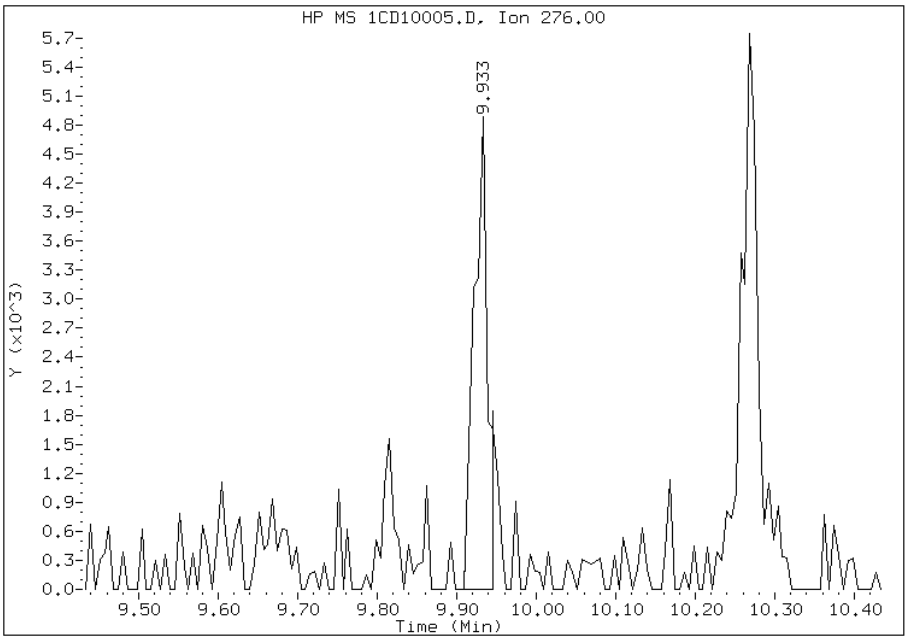
Processing Integration Results

RT: 9.93

Response: 5678

Amount: 0

Conc: 128



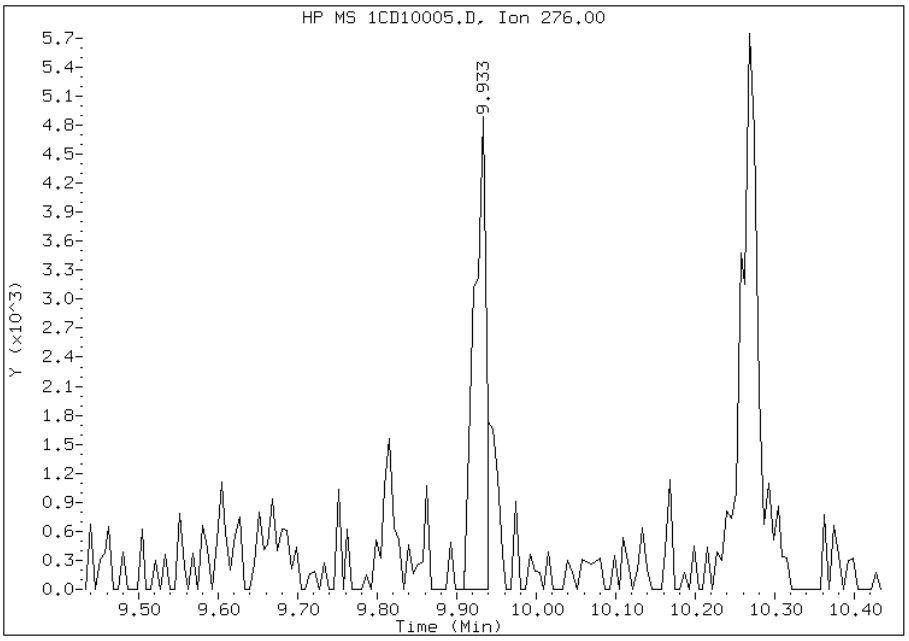
Manual Integration Results

RT: 9.93

Response: 5096

Amount: 0

Conc: 114



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 13:42
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1125B-CS | Lab Sample ID: 680-88811-59

Matrix: Solid | Lab File ID: 1CD10006.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 10:15

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 14.99(g) | Date Analyzed: 04/10/2013 13:05

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

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

% Moisture: 16.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136309 | 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	130		40	20
56-55-3	Benzo[a]anthracene	420		38	19
50-32-8	Benzo[a]pyrene	270		50	25
205-99-2	Benzo[b]fluoranthene	480		59	29
191-24-2	Benzo[g,h,i]perylene	270		96	21
207-08-9	Benzo[k]fluoranthene	270		38	17
218-01-9	Chrysene	400		43	22
53-70-3	Dibenz(a,h)anthracene	62	J	96	20
206-44-0	Fluoranthene	670		96	19
86-73-7	Fluorene	55	J	96	20
193-39-5	Indeno[1,2,3-cd]pyrene	170		96	34
90-12-0	1-Methylnaphthalene	100	J	190	21
91-57-6	2-Methylnaphthalene	80	J	190	34
91-20-3	Naphthalene	100	J	190	21
85-01-8	Phenanthrene	540		38	19
129-00-0	Pyrene	600		96	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10006.D
Lab Smp Id: 680-88811-A-59-A Client Smp ID: CV1125B-CS
Inj Date : 10-APR-2013 13:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-59-a
Misc Info : 680-88811-A-59-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 6
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	16.816	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.680	3.680	(1.000)	350279	40.0000	
* 6 Acenaphthene-d10	164	4.763	4.768	(1.000)	240452	40.0000	
* 10 Phenanthrene-d10	188	5.710	5.710	(1.000)	443099	40.0000	
$ 14 o-Terphenyl	230	5.963	5.963	(1.044)	9908	2.09532	672.1548
* 18 Chrysene-d12	240	7.645	7.645	(1.000)	561969	40.0000	
* 23 Perylene-d12	264	8.809	8.809	(1.000)	572162	40.0000	
2 Naphthalene	128	3.692	3.692	(1.003)	2877	0.31978	102.5815
3 2-Methylnaphthalene	142	4.122	4.121	(1.120)	1534	0.25048	80.3504(Q)
4 1-Methylnaphthalene	142	4.180	4.180	(1.136)	1794	0.32555	104.4328
9 Fluorene	166	5.104	5.104	(1.072)	1410	0.17160	55.0464
11 Phenanthrene	178	5.727	5.727	(1.003)	21821	1.69088	542.4160
12 Anthracene	178	5.763	5.763	(1.009)	5200	0.39749	127.5113
13 Carbazole	167	5.874	5.868	(1.029)	2426	0.21645	69.4360(Q)
15 Fluoranthene	202	6.557	6.557	(1.148)	29908	2.09850	673.1765

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Pyrene	202	6.727	6.727	(0.880)	29239	1.87827	602.5285
17 Benzo(a)anthracene	228	7.639	7.639	(0.999)	19045	1.30525	418.7104
19 Chrysene	228	7.662	7.668	(1.002)	20062	1.25281	401.8860
20 Benzo(b)fluoranthene	252	8.468	8.474	(0.961)	24079	1.48861	477.5291
21 Benzo(k)fluoranthene	252	8.492	8.498	(0.964)	13178	0.84233	270.2113
22 Benzo(a)pyrene	252	8.751	8.756	(0.993)	12898	0.84694	271.6903
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.939	(1.127)	7795	0.53890	172.8745(M)
25 Dibenzo(a,h)anthracene	278	9.945	9.950	(1.129)	2571	0.19241	61.7242(M)
26 Benzo(g,h,i)perylene	276	10.274	10.280	(1.166)	12561	0.85086	272.9451(M)

QC Flag Legend

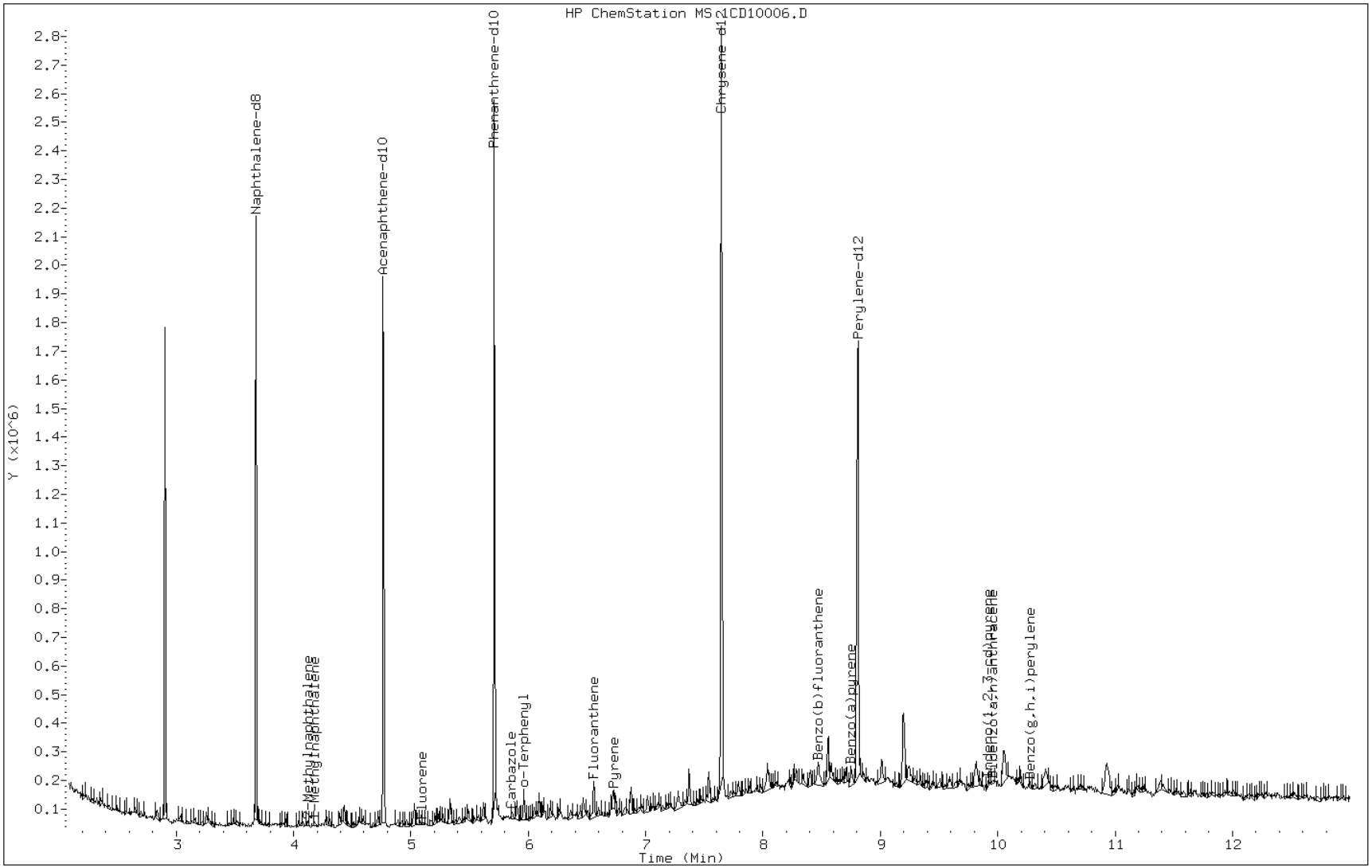
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD10006.D

Date: 10-APR-2013 13:05

Client ID: CV1125B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-59-a Operator: SCC



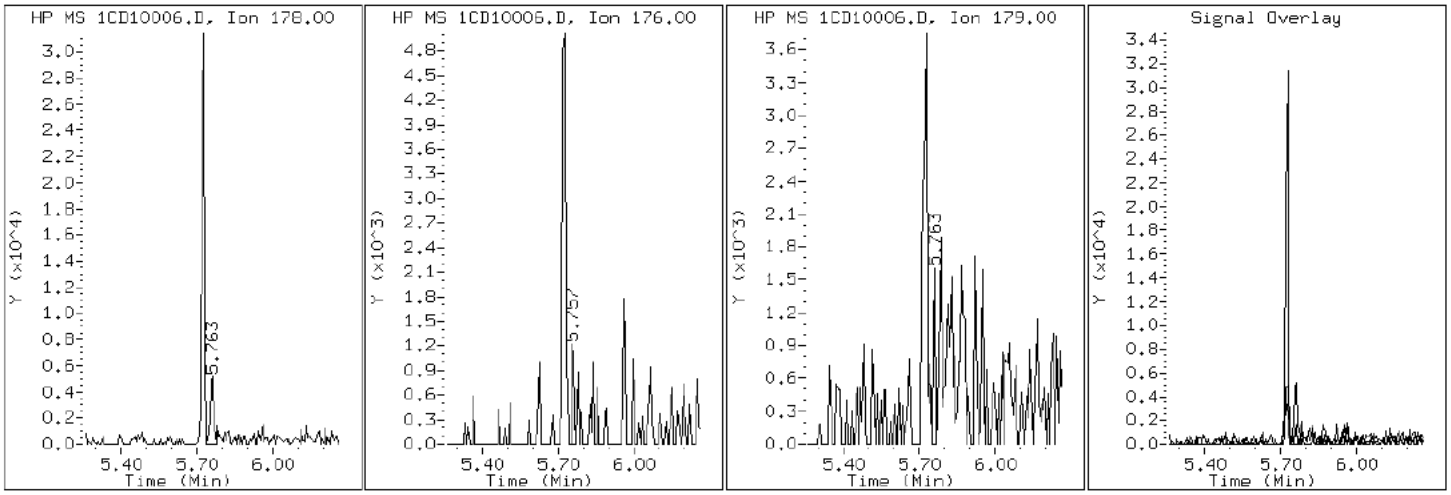
Data File: 1CD10006.D

Date: 10-APR-2013 13:05

Client ID: CV1125B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-59-a Operator: SCC

12 Anthracene



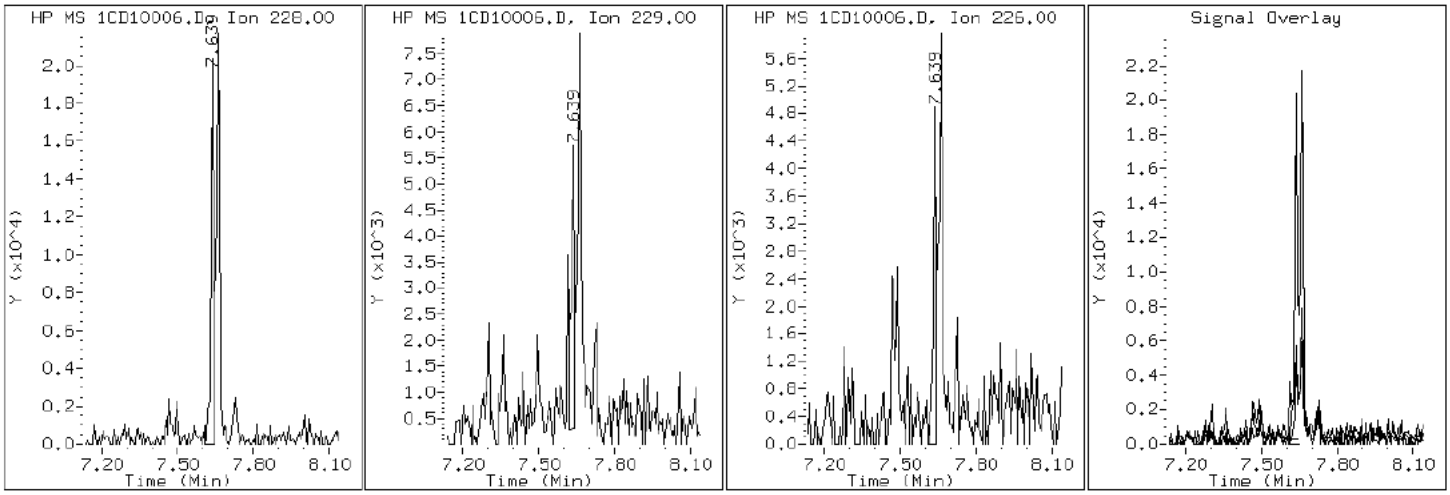
Data File: 1CD10006.D

Date: 10-APR-2013 13:05

Client ID: CV1125B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-59-a Operator: SCC

17 Benzo(a)anthracene



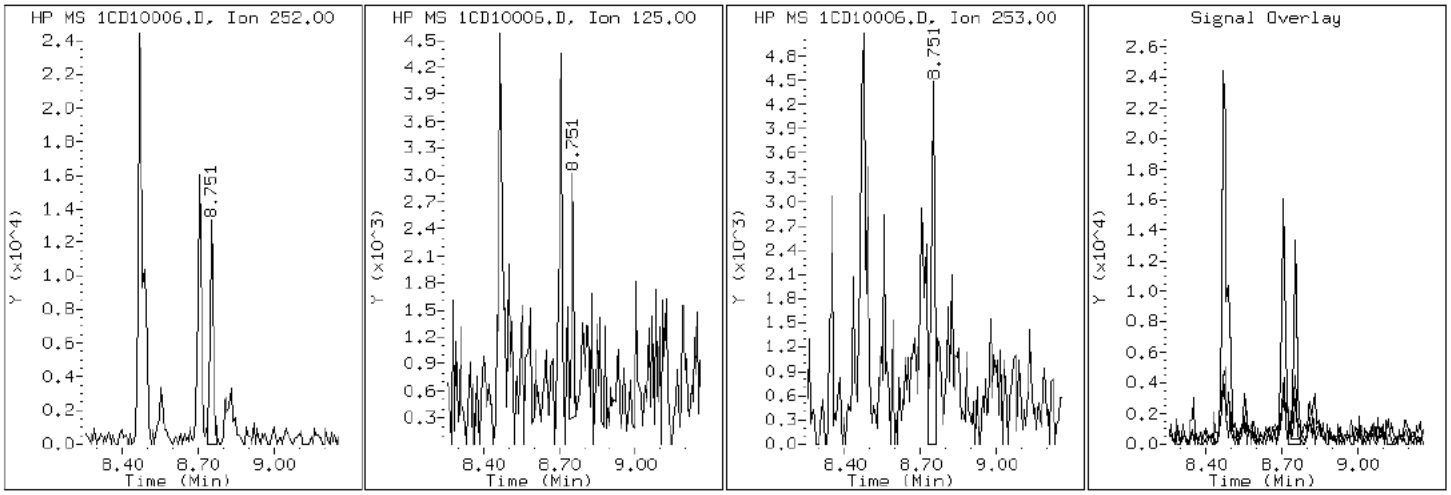
Data File: 1CD10006.D

Date: 10-APR-2013 13:05

Client ID: CV1125B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-59-a Operator: SCC

22 Benzo(a)pyrene



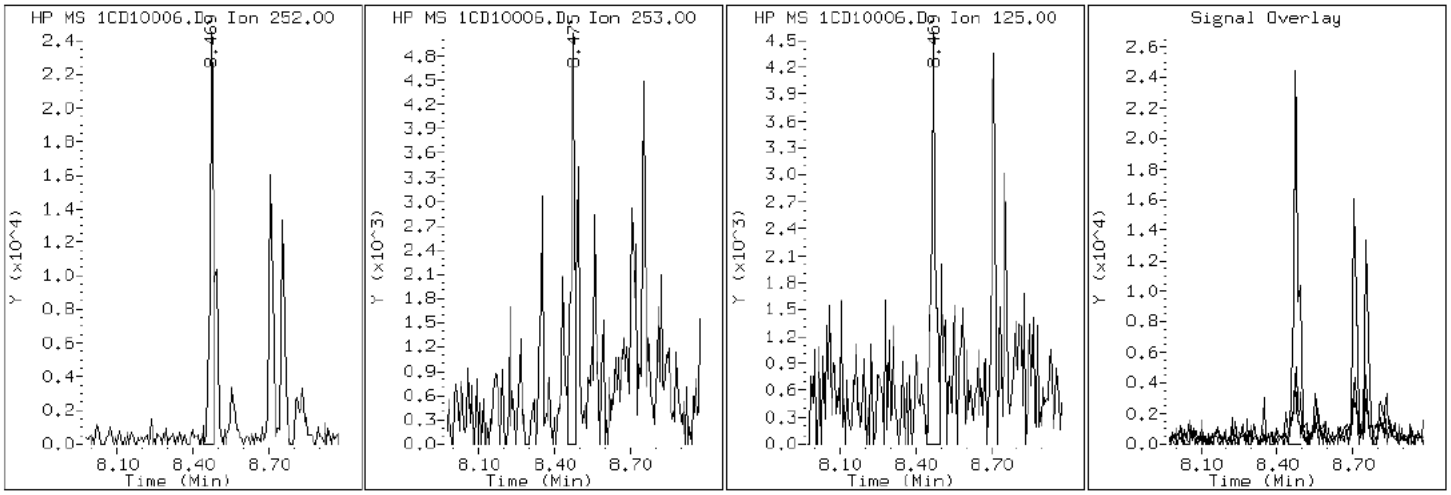
Data File: 1CD10006.D

Date: 10-APR-2013 13:05

Client ID: CV1125B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-59-a Operator: SCC

20 Benzo(b)fluoranthene



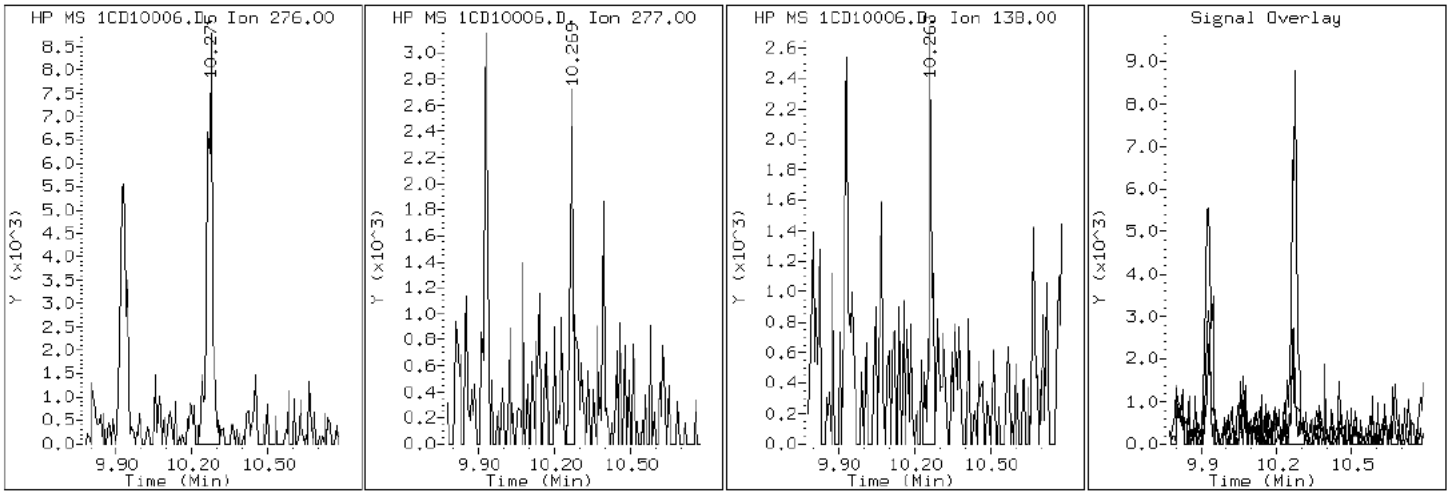
Data File: 1CD10006.D

Date: 10-APR-2013 13:05

Client ID: CV1125B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-59-a Operator: SCC

26 Benzo(g,h,i)perylene



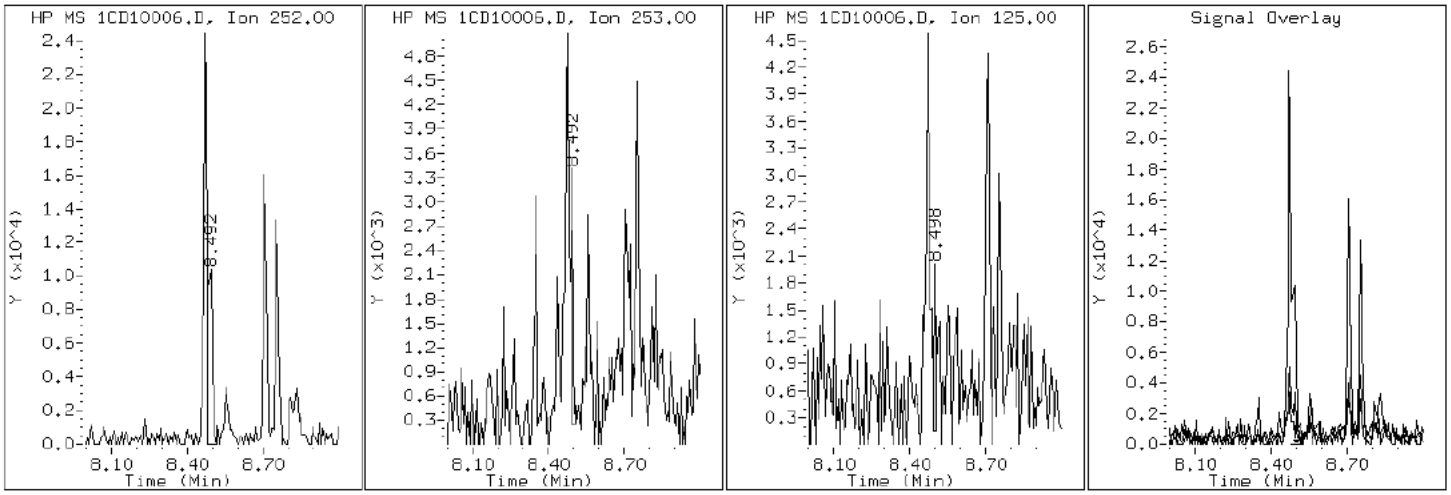
Data File: 1CD10006.D

Date: 10-APR-2013 13:05

Client ID: CV1125B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-59-a Operator: SCC

21 Benzo(k)fluoranthene



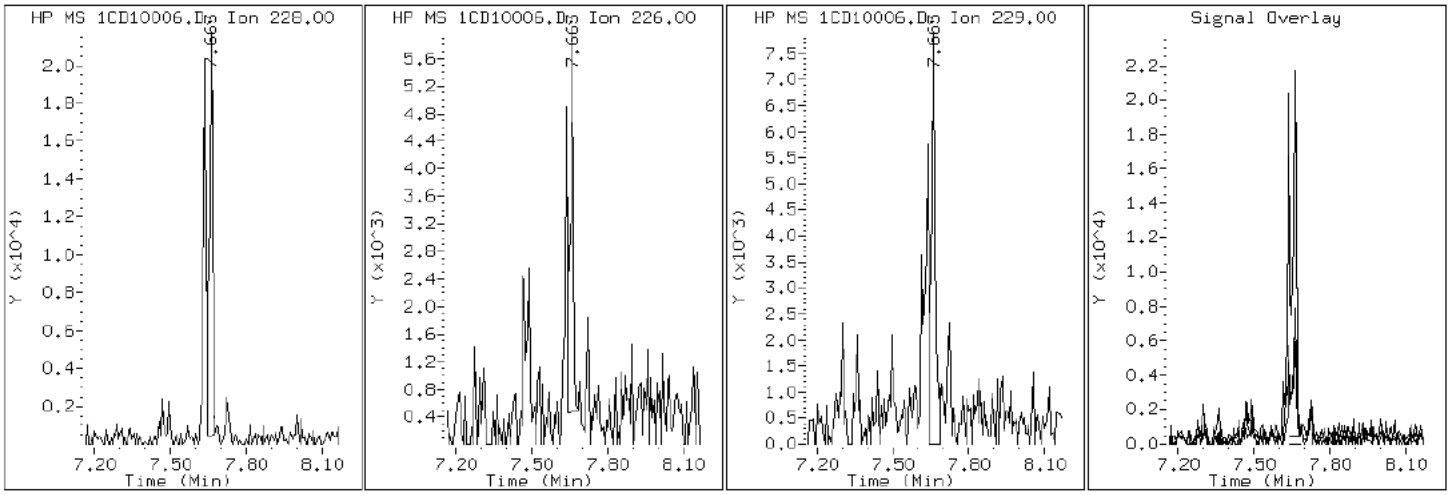
Data File: 1CD10006.D

Date: 10-APR-2013 13:05

Client ID: CV1125B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-59-a Operator: SCC

19 Chrysene



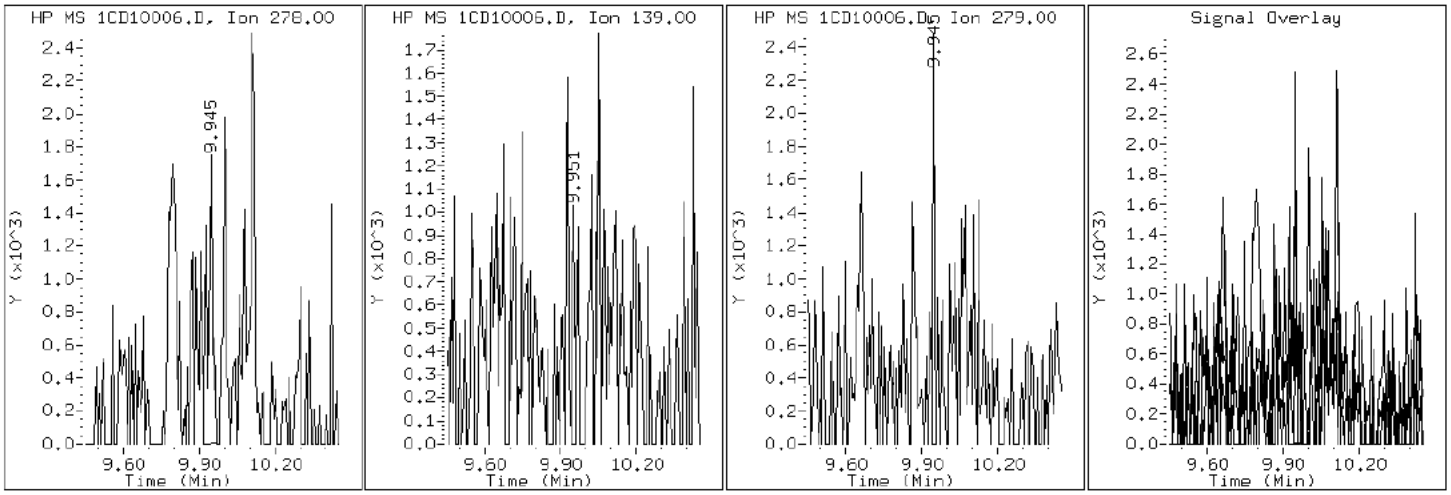
Data File: 1CD10006.D

Date: 10-APR-2013 13:05

Client ID: CV1125B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-59-a Operator: SCC

25 Dibenzo(a,h)anthracene



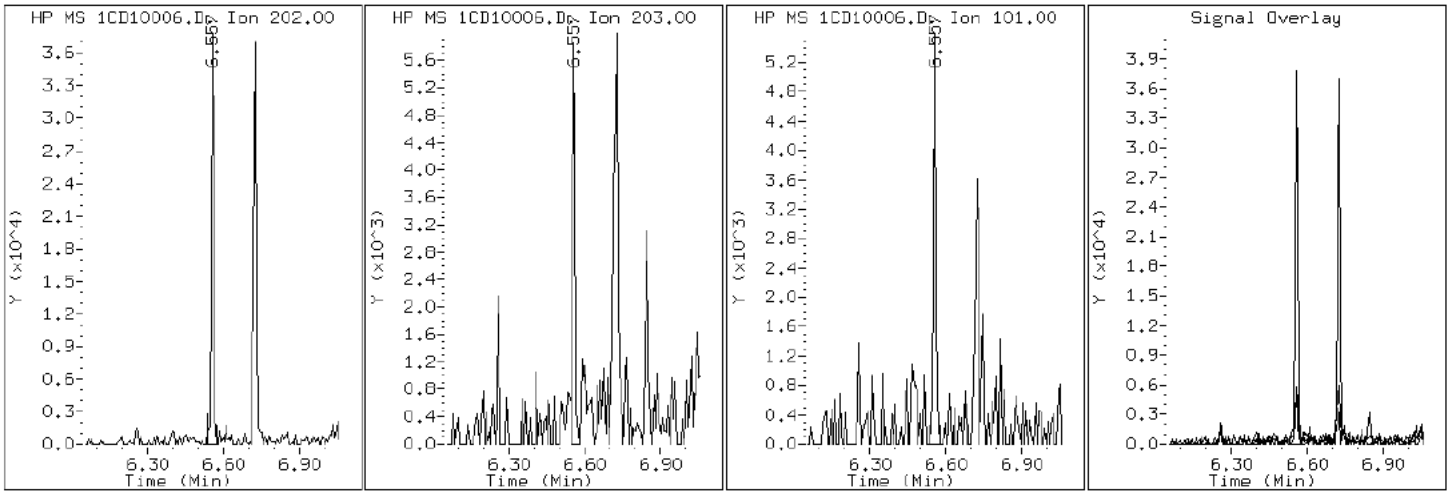
Data File: 1CD10006.D

Date: 10-APR-2013 13:05

Client ID: CV1125B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-59-a Operator: SCC

15 Fluoranthene



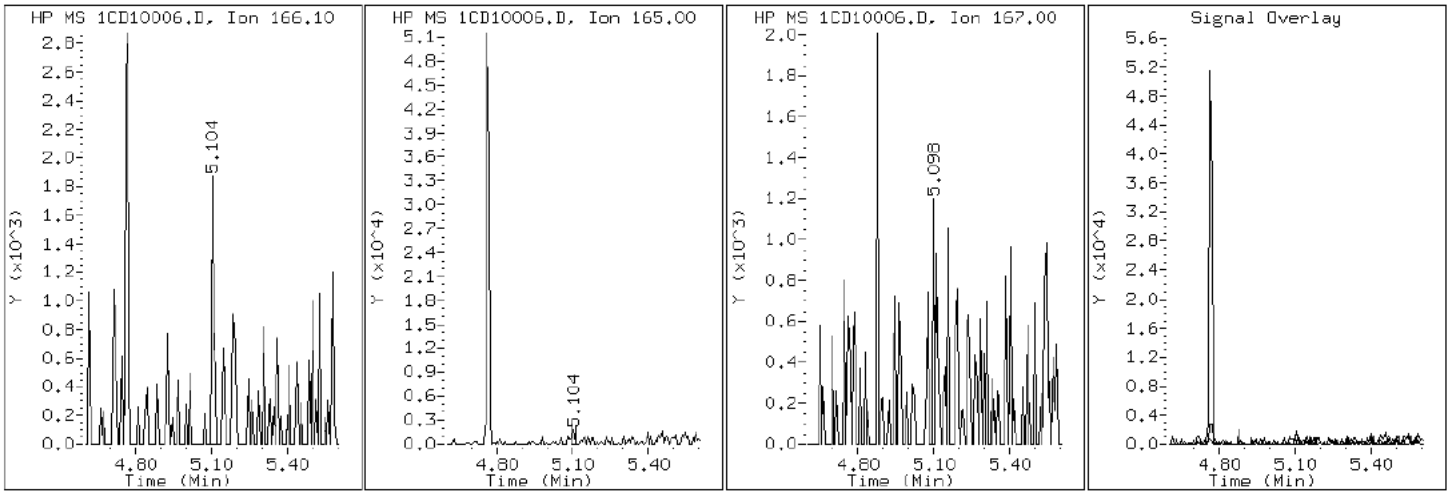
Data File: 1CD10006.D

Date: 10-APR-2013 13:05

Client ID: CV1125B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-59-a Operator: SCC

9 Fluorene



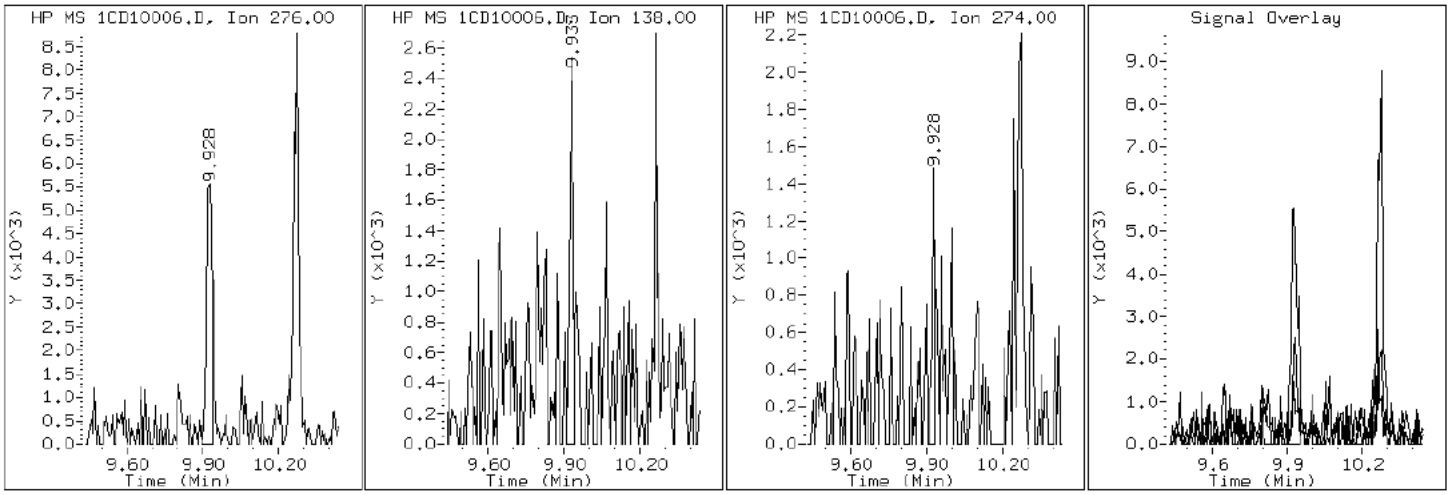
Data File: 1CD10006.D

Date: 10-APR-2013 13:05

Client ID: CV1125B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-59-a Operator: SCC

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



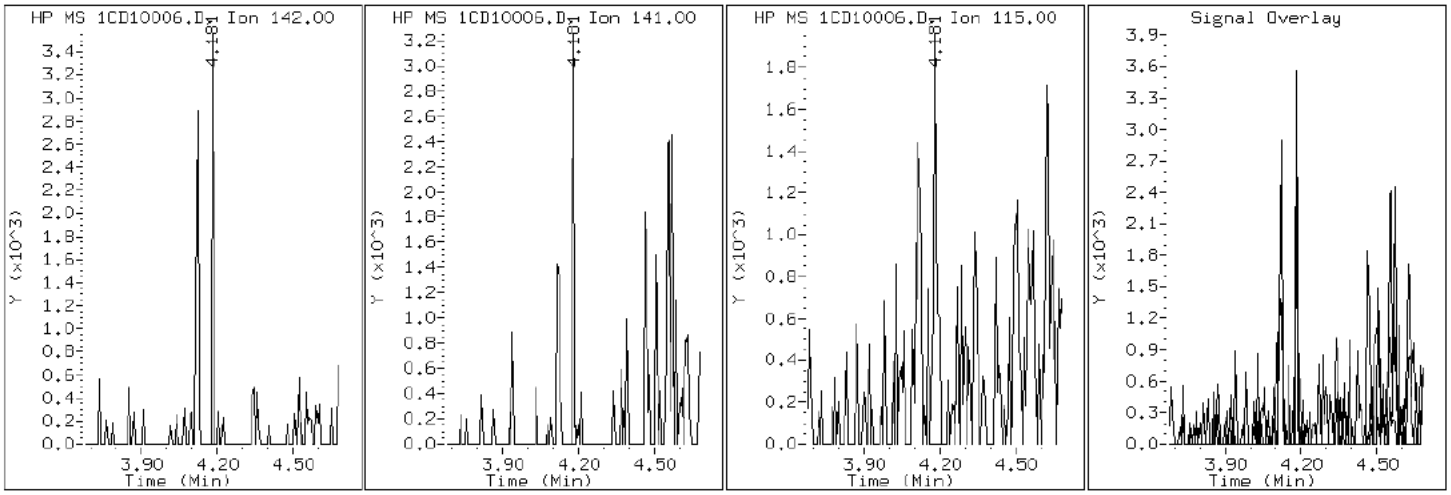
Data File: 1CD10006.D

Date: 10-APR-2013 13:05

Client ID: CV1125B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-59-a Operator: SCC

4 1-Methylnaphthalene



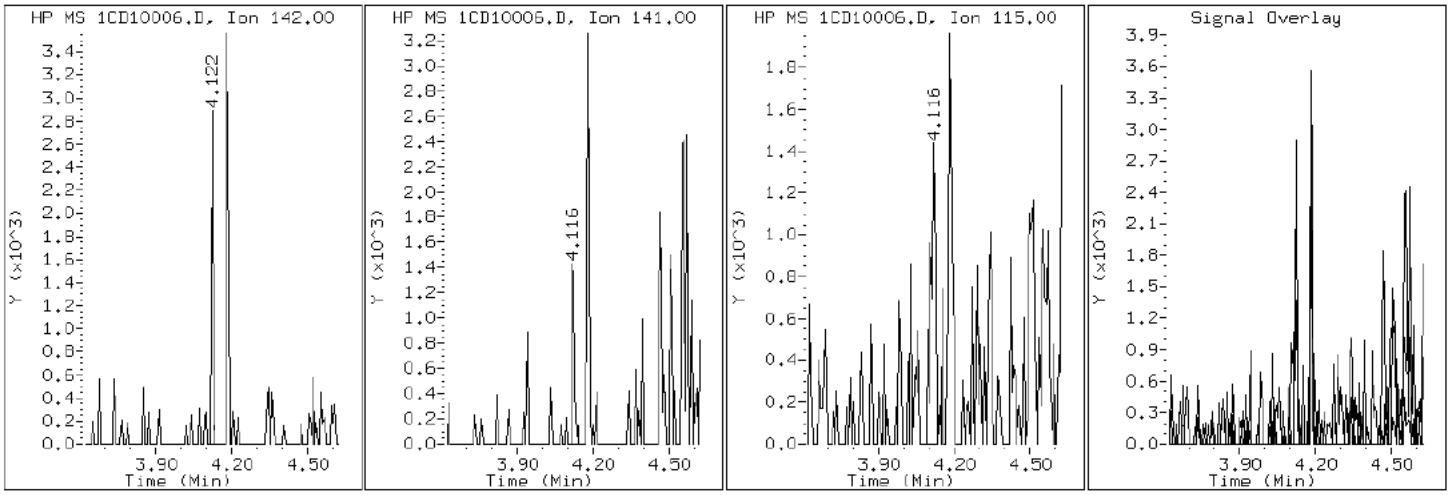
Data File: 1CD10006.D

Date: 10-APR-2013 13:05

Client ID: CV1125B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-59-a Operator: SCC

3 2-Methylnaphthalene



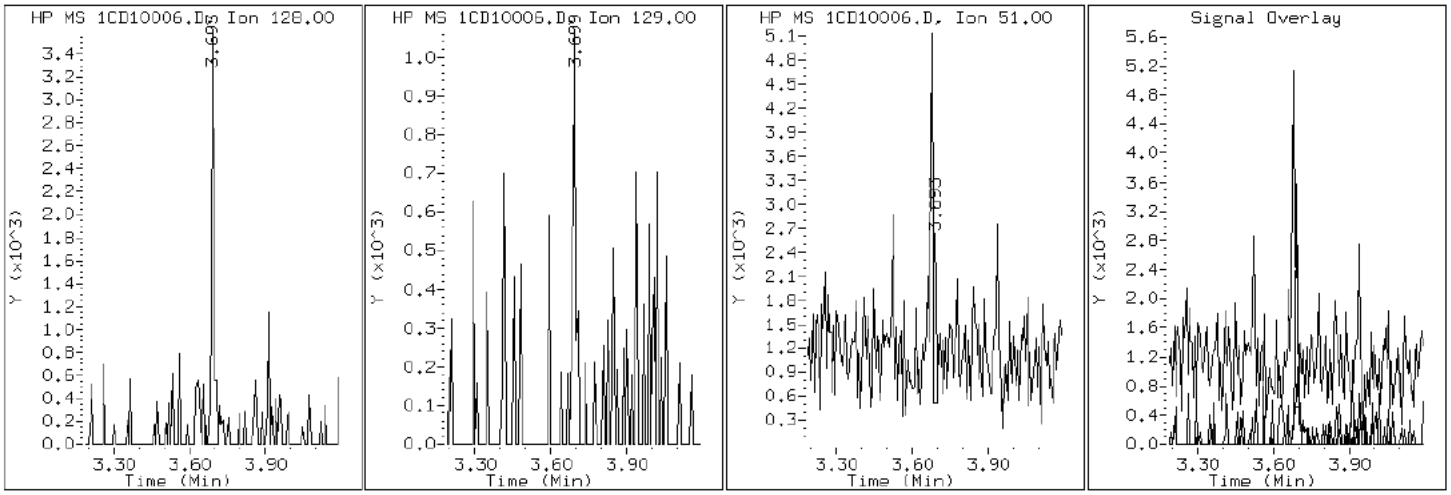
Data File: 1CD10006.D

Date: 10-APR-2013 13:05

Client ID: CV1125B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-59-a Operator: SCC

2 Naphthalene



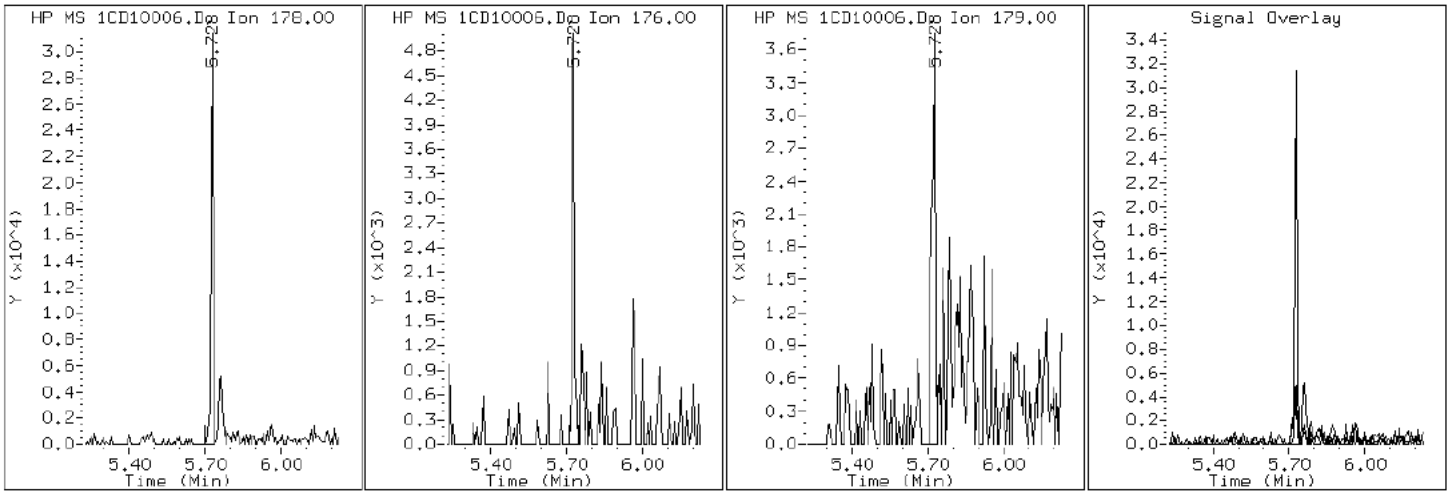
Data File: 1CD10006.D

Date: 10-APR-2013 13:05

Client ID: CV1125B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-59-a Operator: SCC

11 Phenanthrene



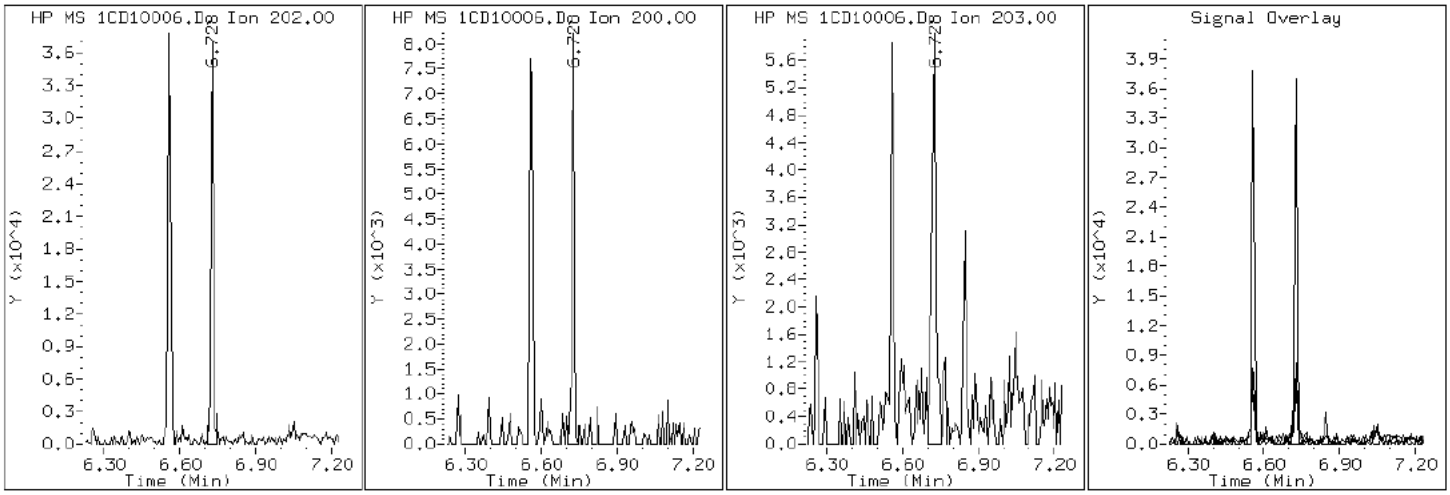
Data File: 1CD10006.D

Date: 10-APR-2013 13:05

Client ID: CV1125B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-59-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD10006.D
Inj. Date and Time: 10-APR-2013 13:05
Instrument ID: BSMC5973.i
Client ID: CV1125B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/10/2013

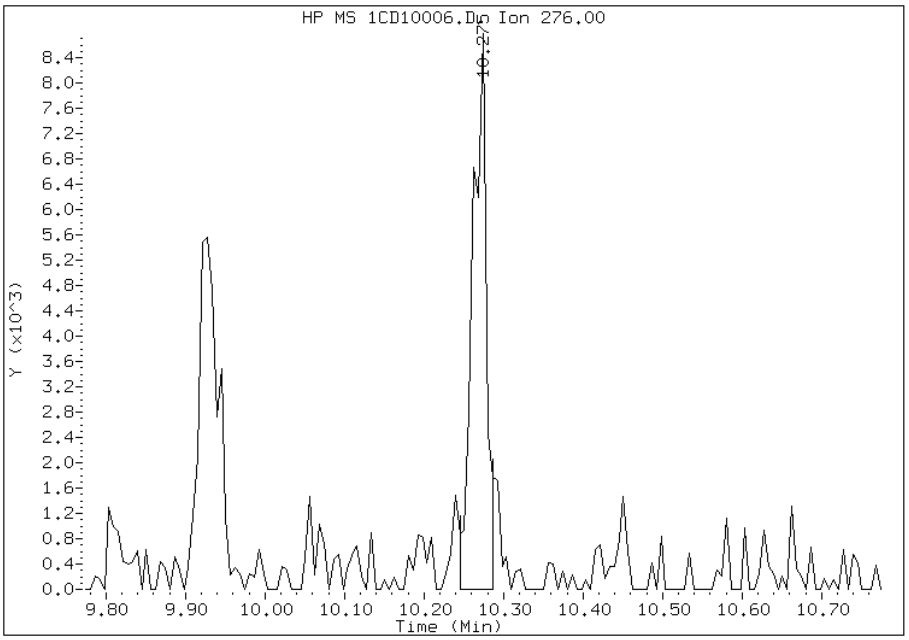
Processing Integration Results

RT: 10.27

Response: 10755

Amount: 1

Conc: 234



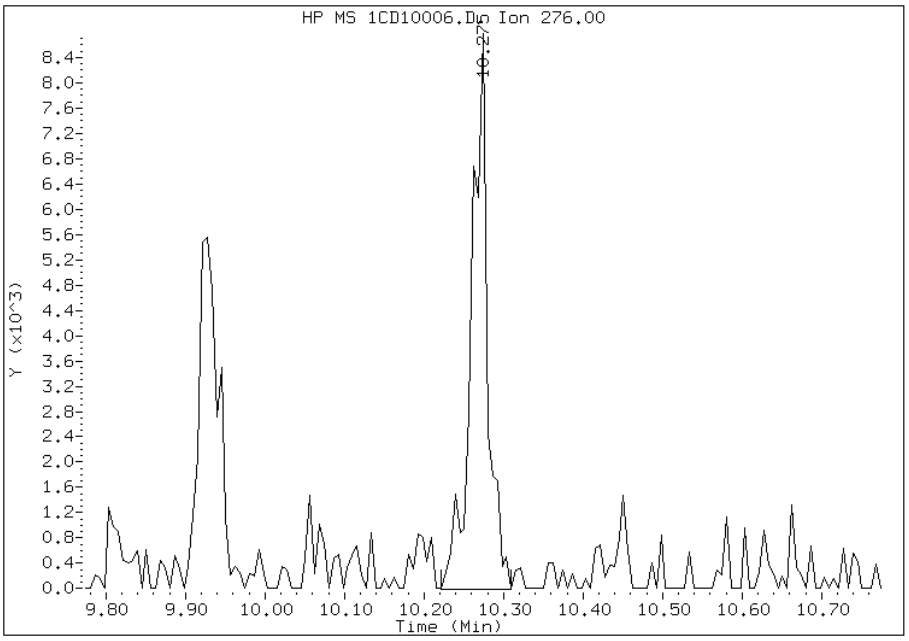
Manual Integration Results

RT: 10.27

Response: 12561

Amount: 1

Conc: 273



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 13:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10006.D
Inj. Date and Time: 10-APR-2013 13:05
Instrument ID: BSMC5973.i
Client ID: CV1125B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/10/2013

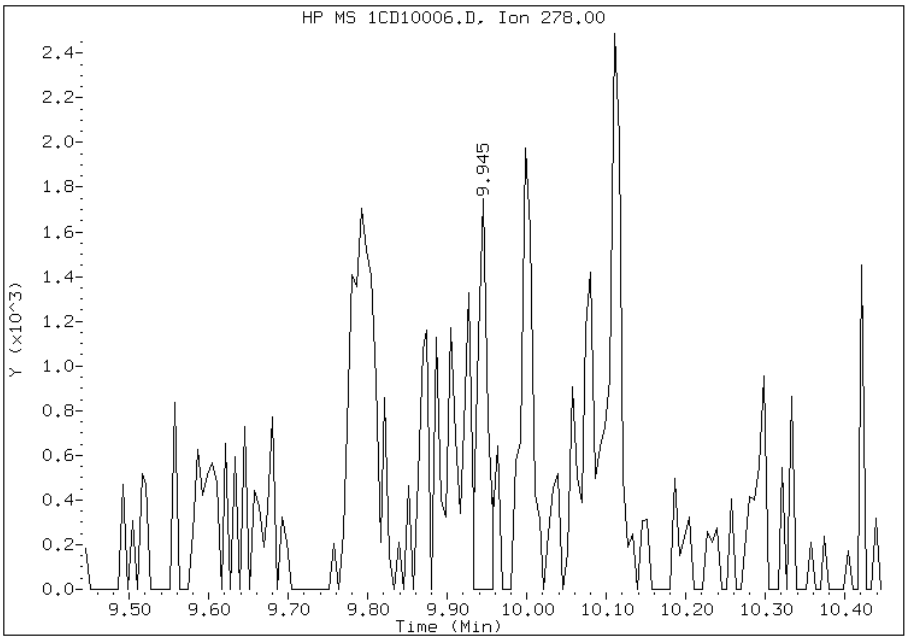
Processing Integration Results

RT: 9.95

Response: 1513

Amount: 0

Conc: 36



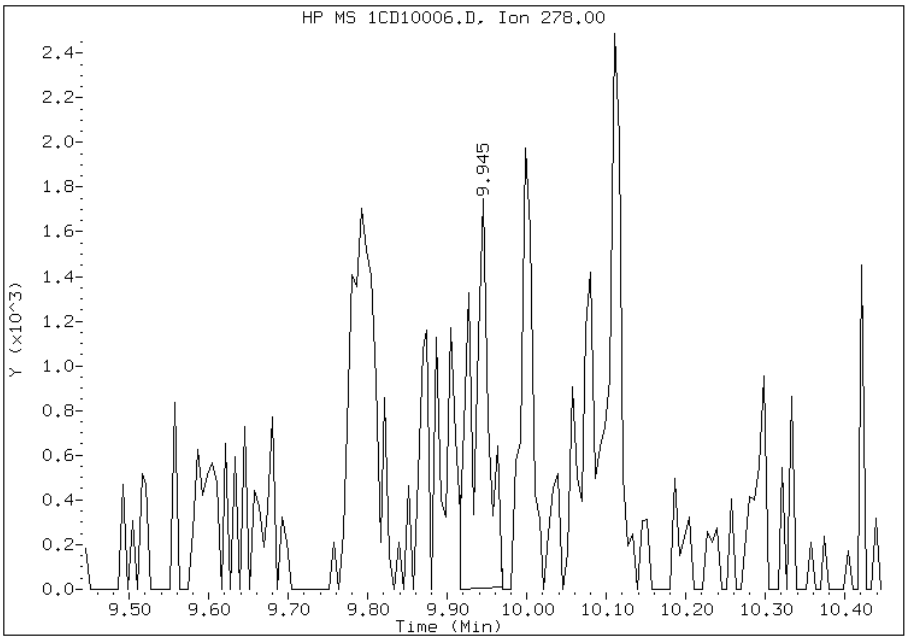
Manual Integration Results

RT: 9.95

Response: 2571

Amount: 0

Conc: 62



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 13:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10006.D
Inj. Date and Time: 10-APR-2013 13:05
Instrument ID: BSMC5973.i
Client ID: CV1125B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

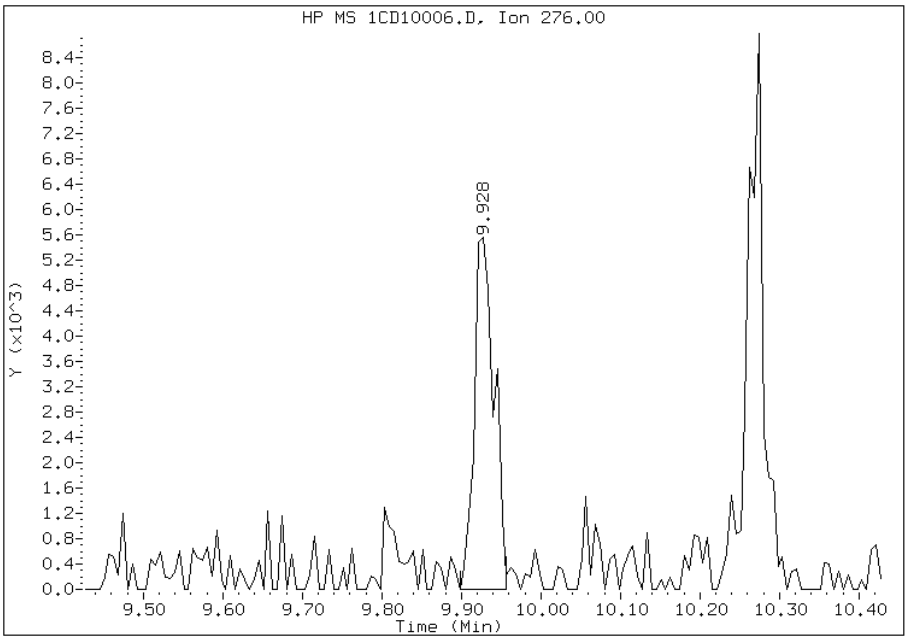
Processing Integration Results

RT: 9.93

Response: 9503

Amount: 1

Conc: 211



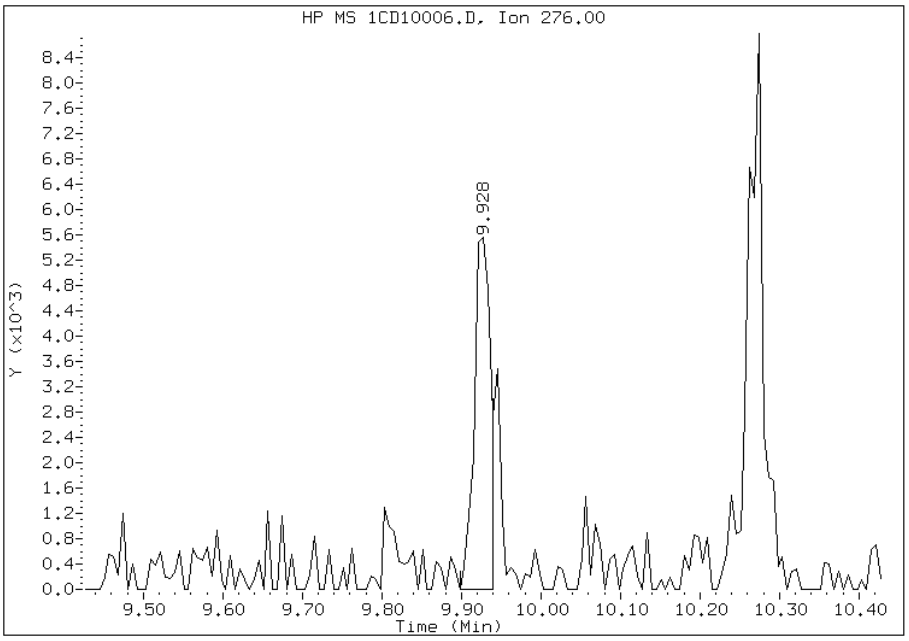
Manual Integration Results

RT: 9.93

Response: 7795

Amount: 1

Conc: 173



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 13:43
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1127A-CS | Lab Sample ID: 680-88811-60

Matrix: Solid | Lab File ID: 1CD10007.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 10:30

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.22(g) | Date Analyzed: 04/10/2013 13:24

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

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

% Moisture: 20.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136309 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	26	J	49	6.2
120-12-7	Anthracene	36		10	5.2
56-55-3	Benzo[a]anthracene	140		9.9	4.8
50-32-8	Benzo[a]pyrene	130		13	6.4
205-99-2	Benzo[b]fluoranthene	350		15	7.5
191-24-2	Benzo[g,h,i]perylene	130		25	5.4
207-08-9	Benzo[k]fluoranthene	110		9.9	4.5
218-01-9	Chrysene	340		11	5.6
53-70-3	Dibenz(a,h)anthracene	46		25	5.1
206-44-0	Fluoranthene	320		25	4.9
86-73-7	Fluorene	8.0	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	130		25	8.8
90-12-0	1-Methylnaphthalene	71		49	5.4
91-57-6	2-Methylnaphthalene	78		49	8.8
91-20-3	Naphthalene	78		49	5.4
85-01-8	Phenanthrene	180		9.9	4.8
129-00-0	Pyrene	260		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10007.D
Lab Smp Id: 680-88811-A-60-A Client Smp ID: CV1127A-CS
Inj Date : 10-APR-2013 13:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-60-a
Misc Info : 680-88811-A-60-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	15.220	Weight Extracted
M	20.273	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.680	3.680	(1.000)	362800	40.0000	
* 6 Acenaphthene-d10	164	4.769	4.768	(1.000)	257256	40.0000	
* 10 Phenanthrene-d10	188	5.710	5.710	(1.000)	491662	40.0000	
$ 14 o-Terphenyl	230	5.963	5.963	(1.044)	35231	5.11548	421.5660
* 18 Chrysene-d12	240	7.645	7.645	(1.000)	605946	40.0000	
* 23 Perylene-d12	264	8.809	8.809	(1.000)	572420	40.0000	
2 Naphthalene	128	3.692	3.692	(1.003)	8846	0.94930	78.2317
3 2-Methylnaphthalene	142	4.122	4.121	(1.120)	6037	0.95173	78.4316
4 1-Methylnaphthalene	142	4.180	4.180	(1.136)	4908	0.85990	70.8640(Q)
5 Acenaphthylene	152	4.680	4.680	(0.981)	3412	0.32046	26.4090
9 Fluorene	166	5.104	5.104	(1.070)	855	0.09726	8.0149(Q)
11 Phenanthrene	178	5.727	5.727	(1.003)	31486	2.19882	181.2047
12 Anthracene	178	5.763	5.763	(1.009)	6379	0.43945	36.2153
13 Carbazole	167	5.869	5.868	(1.028)	9058	0.72835	60.0233

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.557	6.557	(1.148)	61255	3.87345	319.2106
16 Pyrene	202	6.727	6.727	(0.880)	53492	3.18686	262.6288
17 Benzo(a)anthracene	228	7.639	7.639	(0.999)	28068	1.73429	142.9222
19 Chrysene	228	7.663	7.668	(1.002)	70373	4.07562	335.8715
20 Benzo(b)fluoranthene	252	8.468	8.474	(0.961)	67996	4.20175	346.2654(M)
21 Benzo(k)fluoranthene	252	8.492	8.498	(0.964)	20643	1.31890	108.6904(QMH)
22 Benzo(a)pyrene	252	8.757	8.756	(0.994)	24724	1.62276	133.7318
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.939	(1.127)	23648	1.63416	134.6708(M)
25 Dibenzo(a,h)anthracene	278	9.951	9.950	(1.130)	7481	0.55963	46.1187
26 Benzo(g,h,i)perylene	276	10.274	10.280	(1.166)	22718	1.53818	126.7609

QC Flag Legend

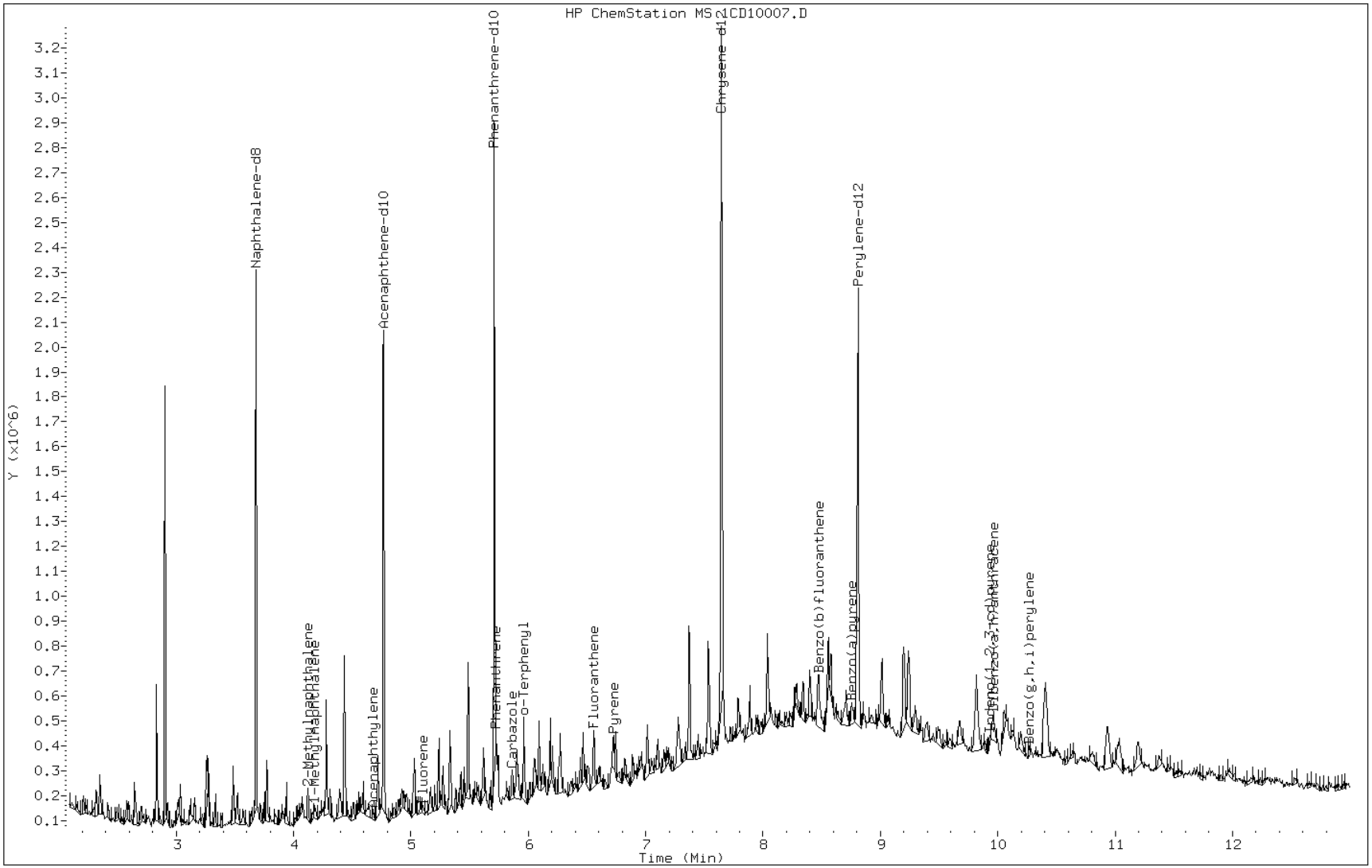
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC



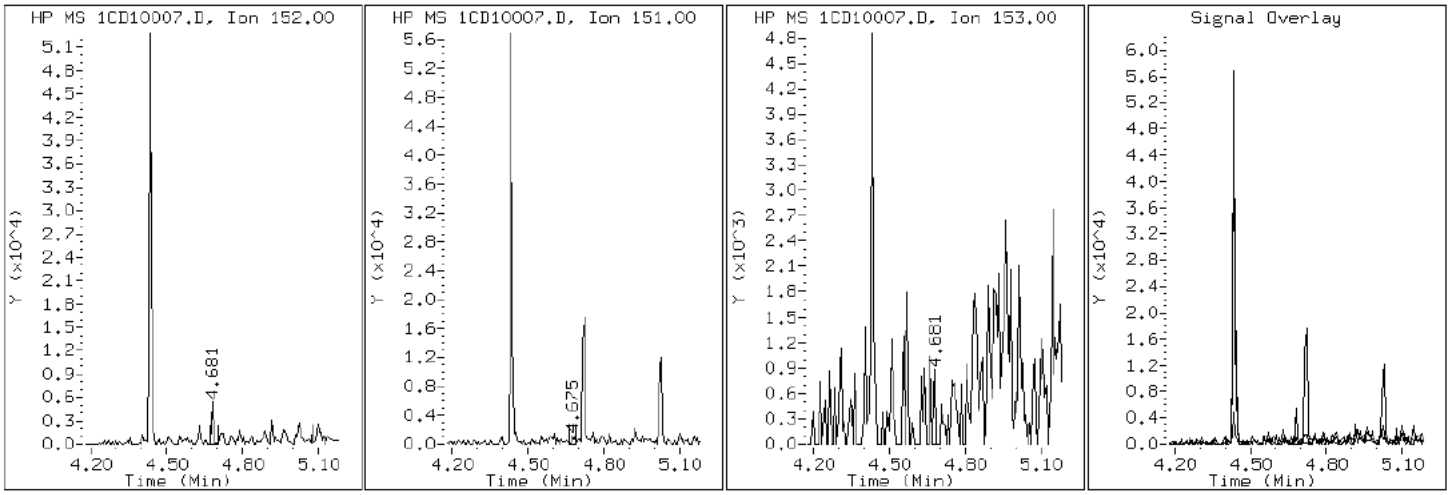
Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC

5 Acenaphthylene



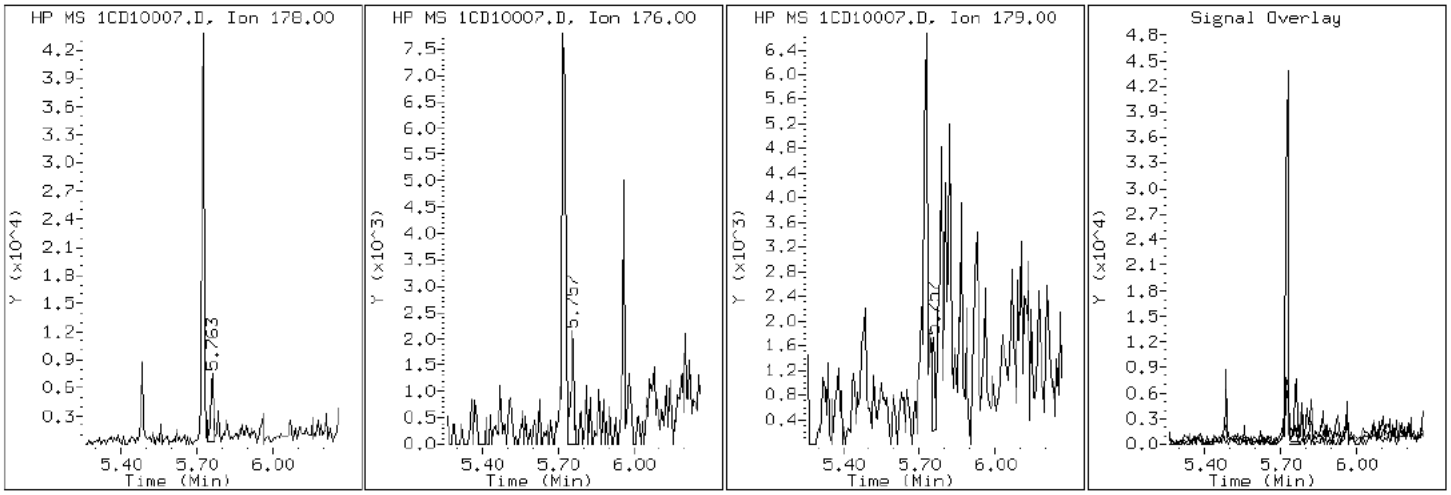
Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC

12 Anthracene



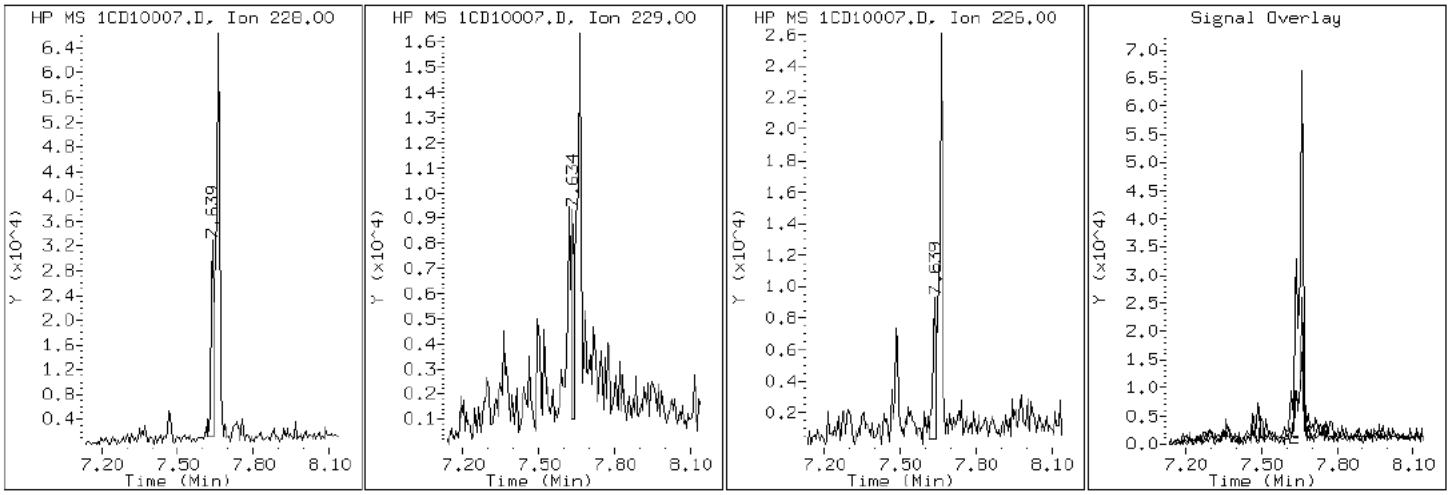
Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC

17 Benzo(a)anthracene



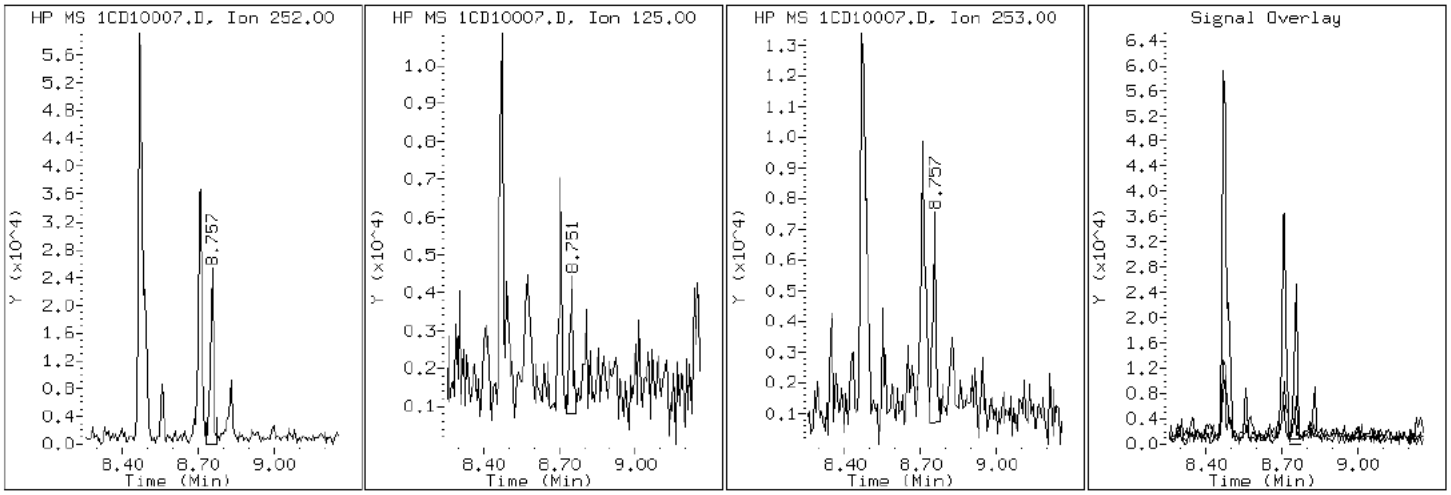
Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC

22 Benzo(a)pyrene



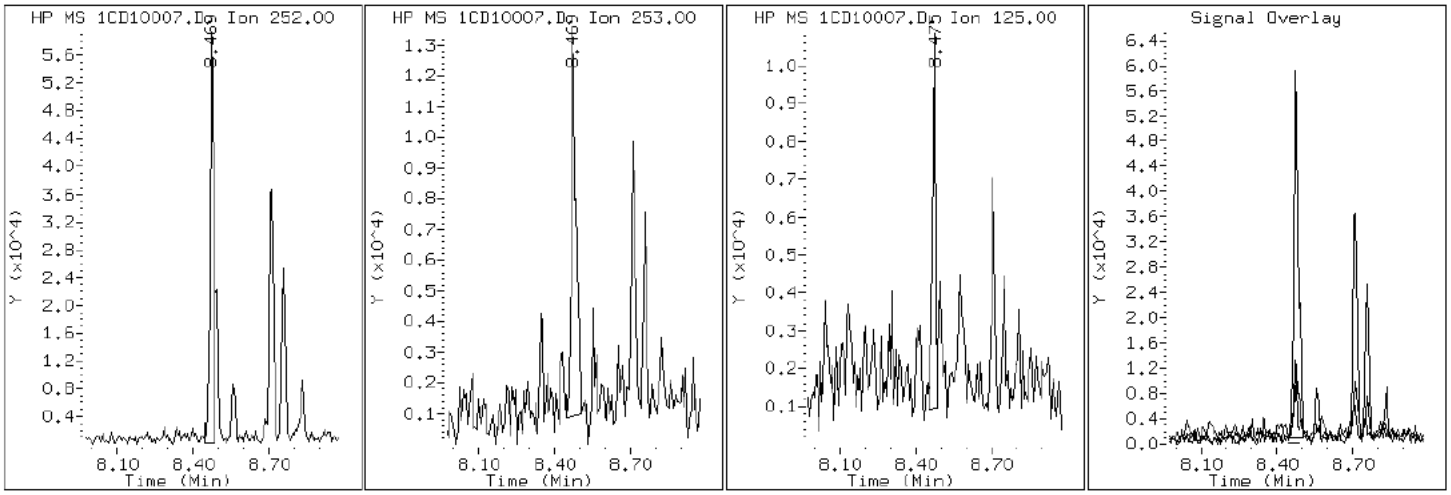
Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC

20 Benzo(b)fluoranthene



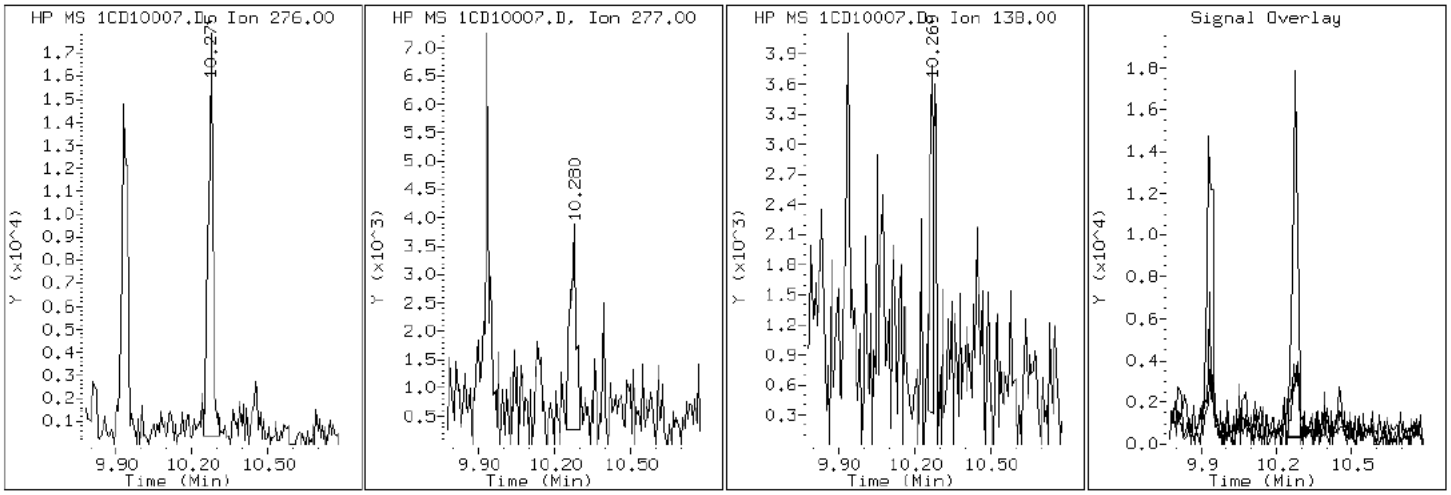
Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC

26 Benzo(g,h,i)perylene



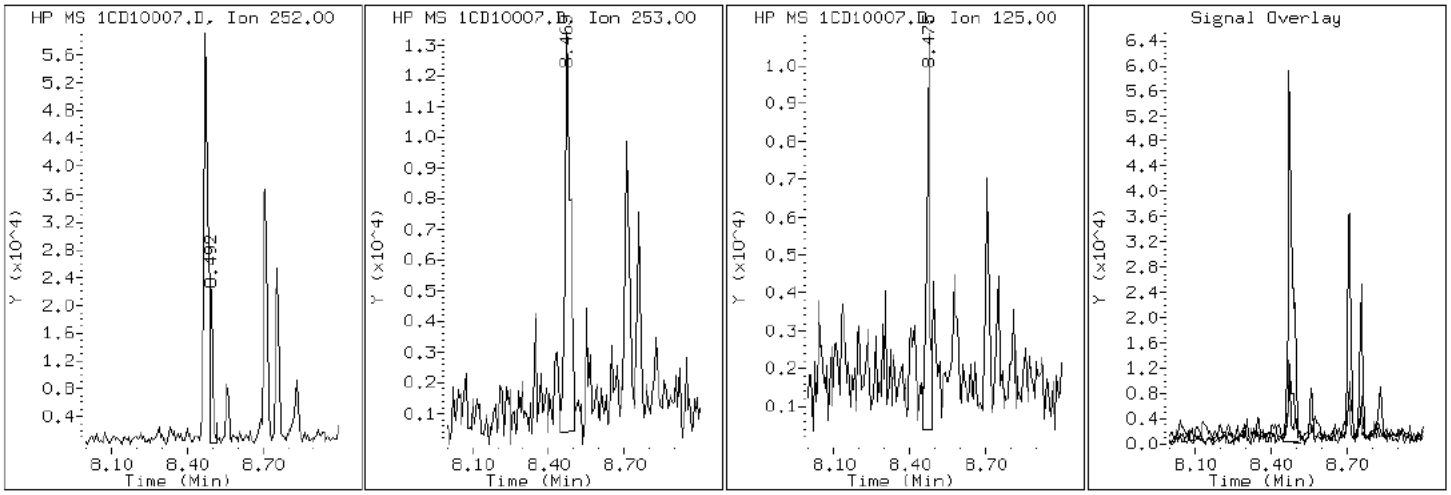
Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC

21 Benzo(k)fluoranthene



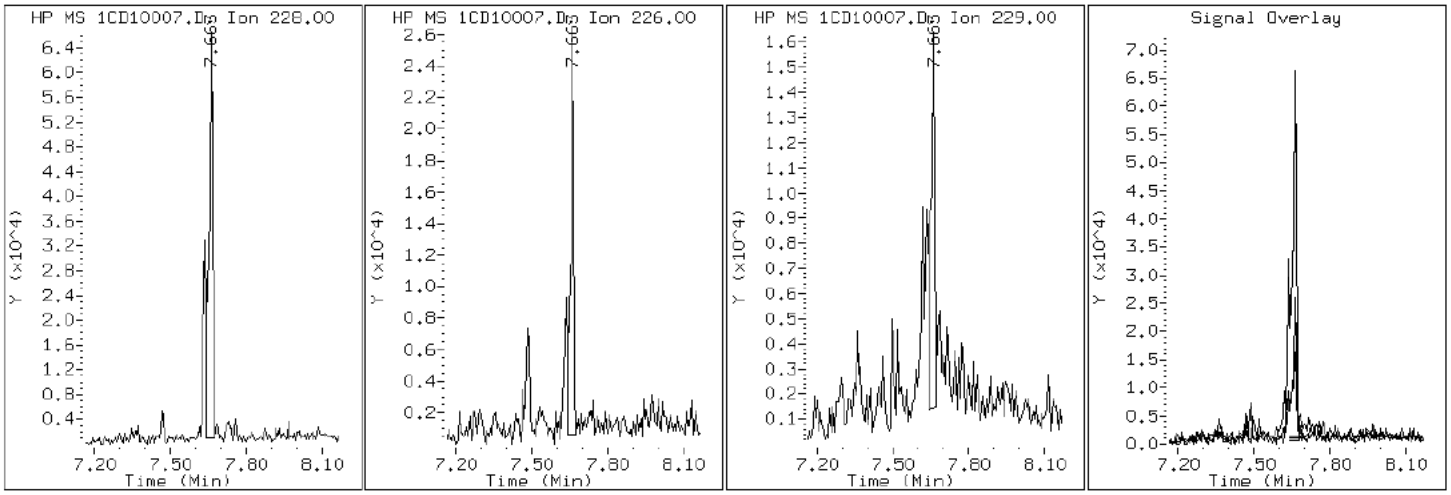
Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC

19 Chrysene



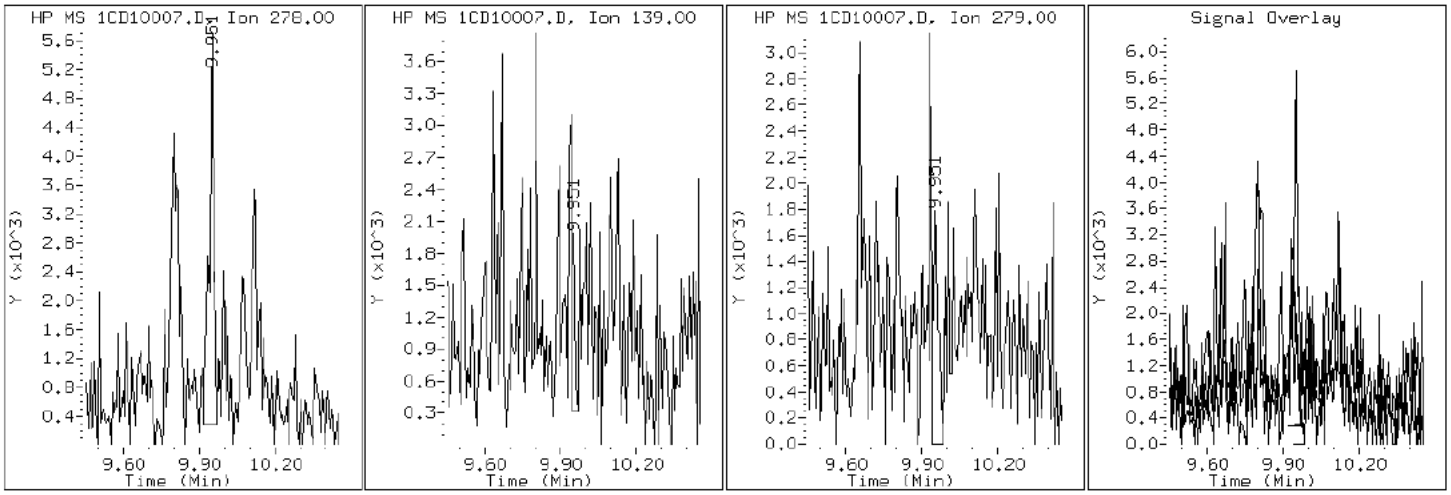
Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC

25 Dibenzo(a,h)anthracene



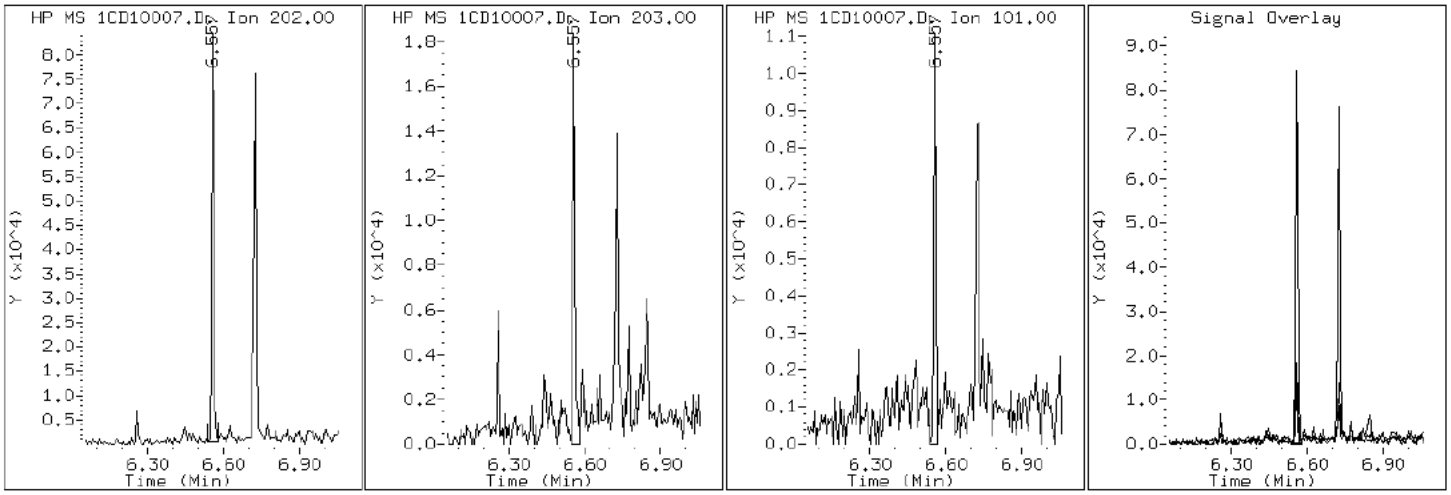
Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC

15 Fluoranthene



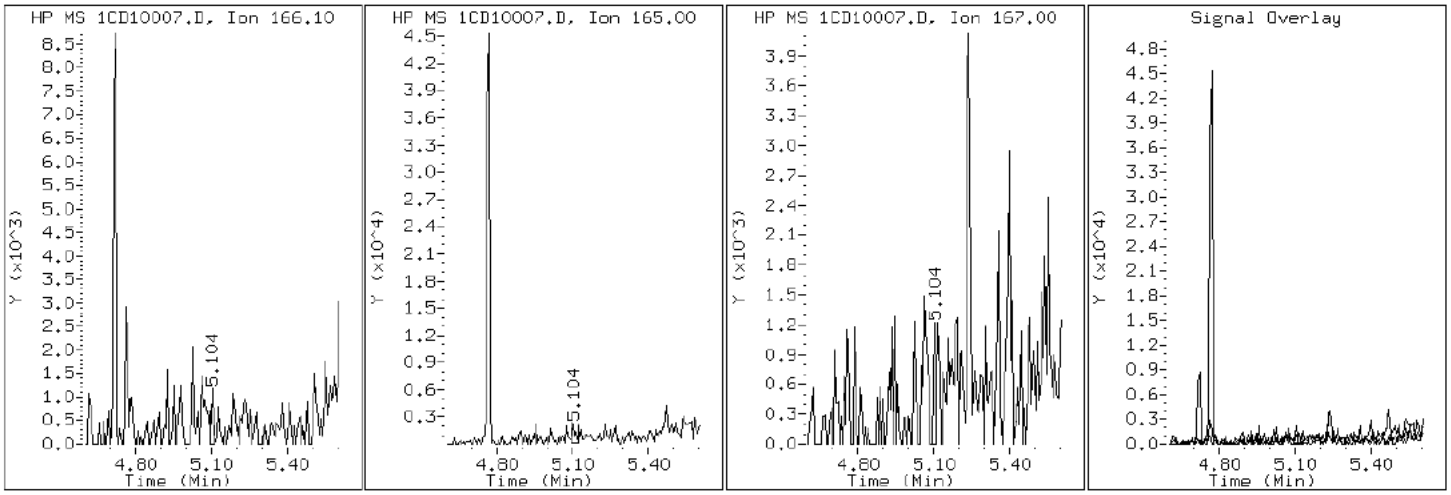
Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC

9 Fluorene



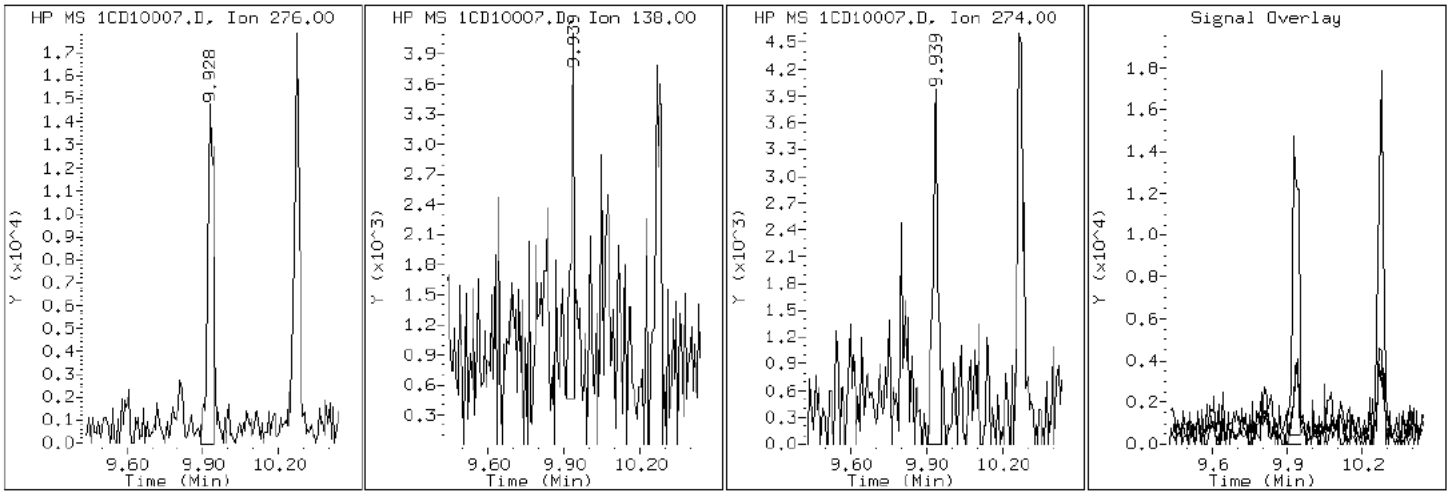
Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC

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



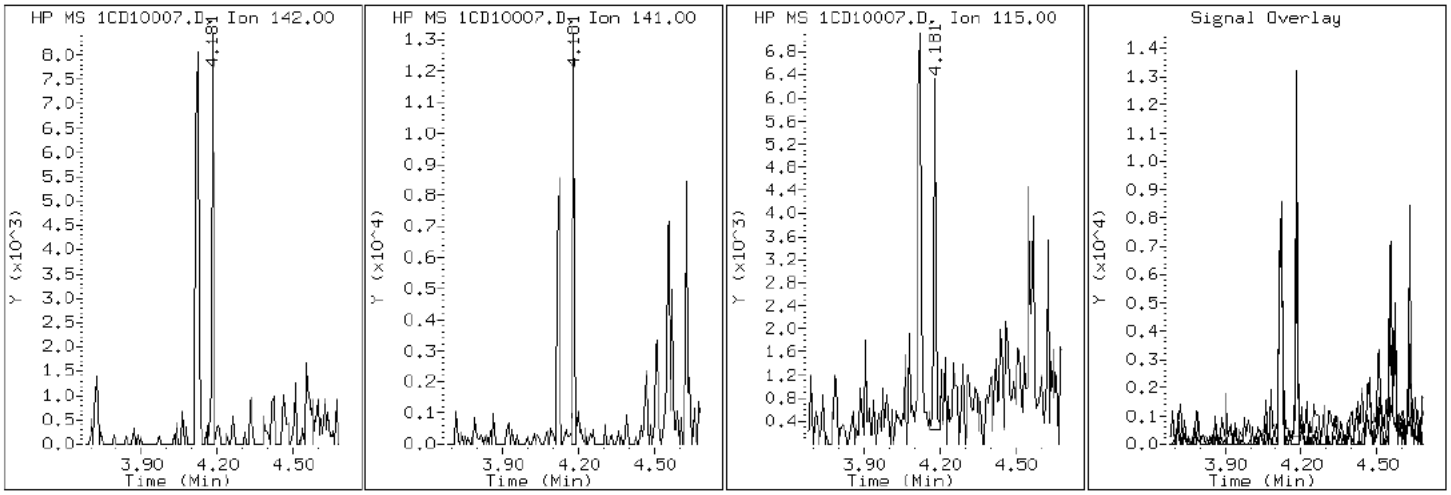
Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC

4 1-Methylnaphthalene



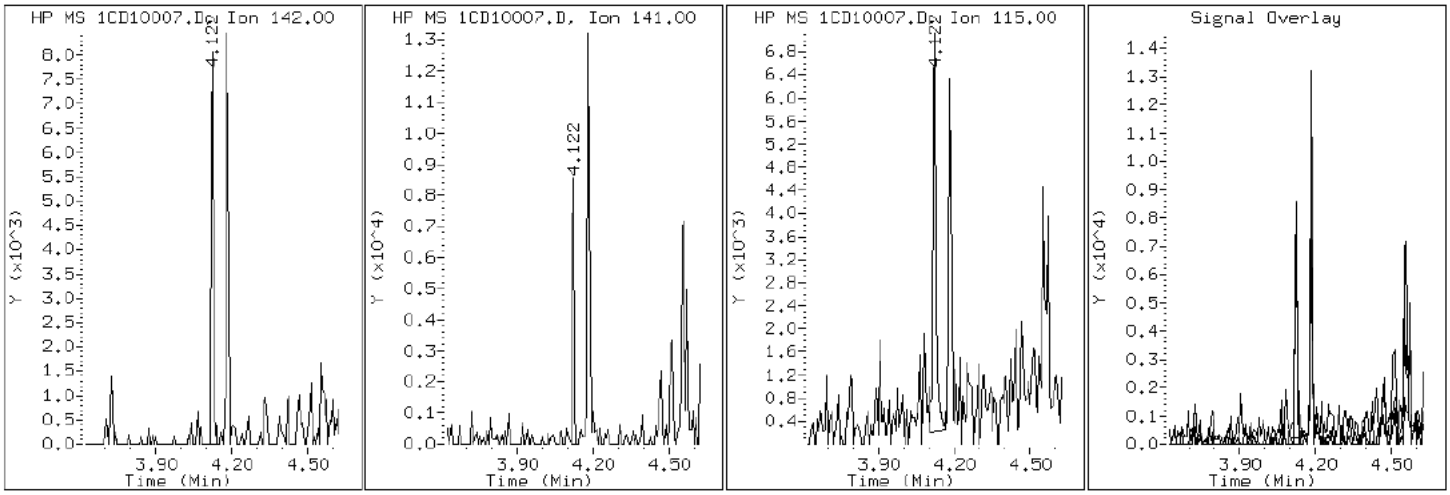
Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC

3 2-Methylnaphthalene



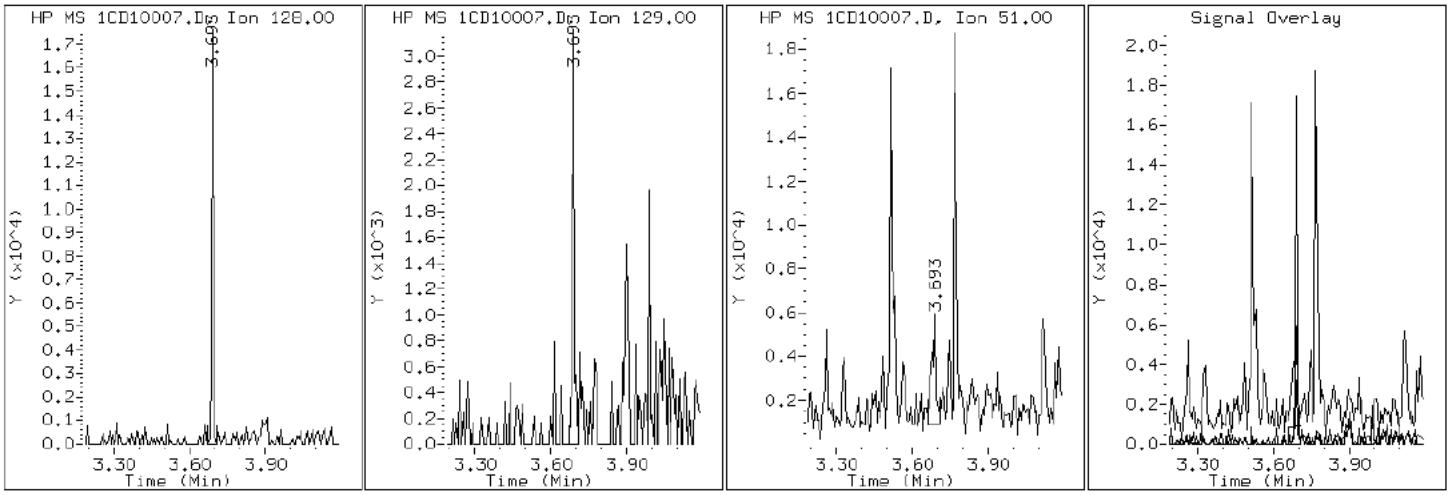
Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC

2 Naphthalene



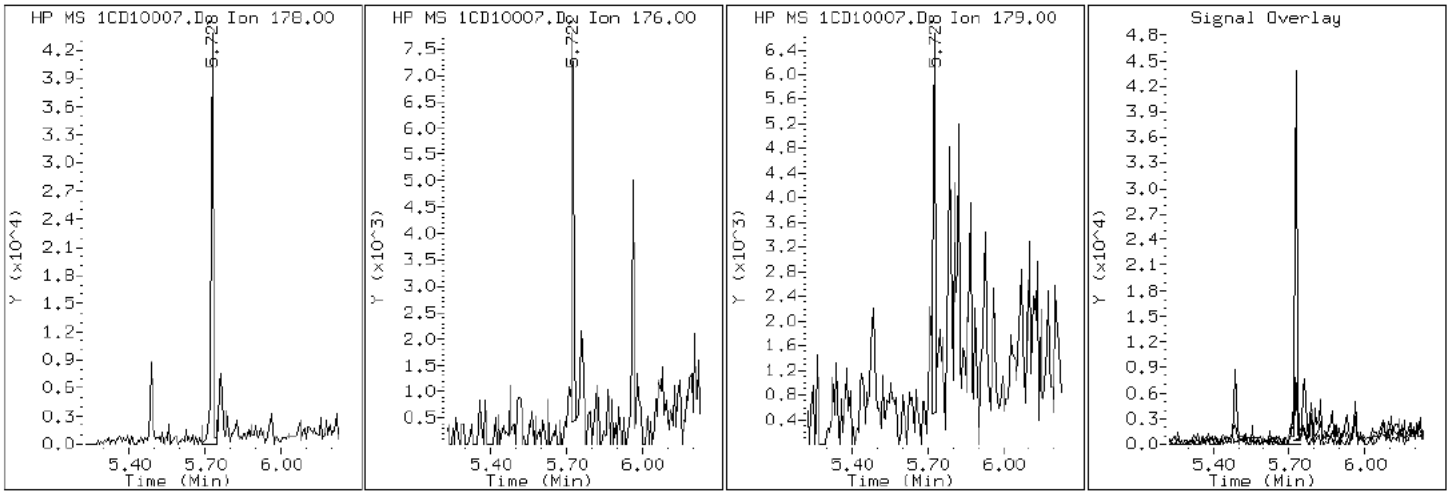
Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC

11 Phenanthrene



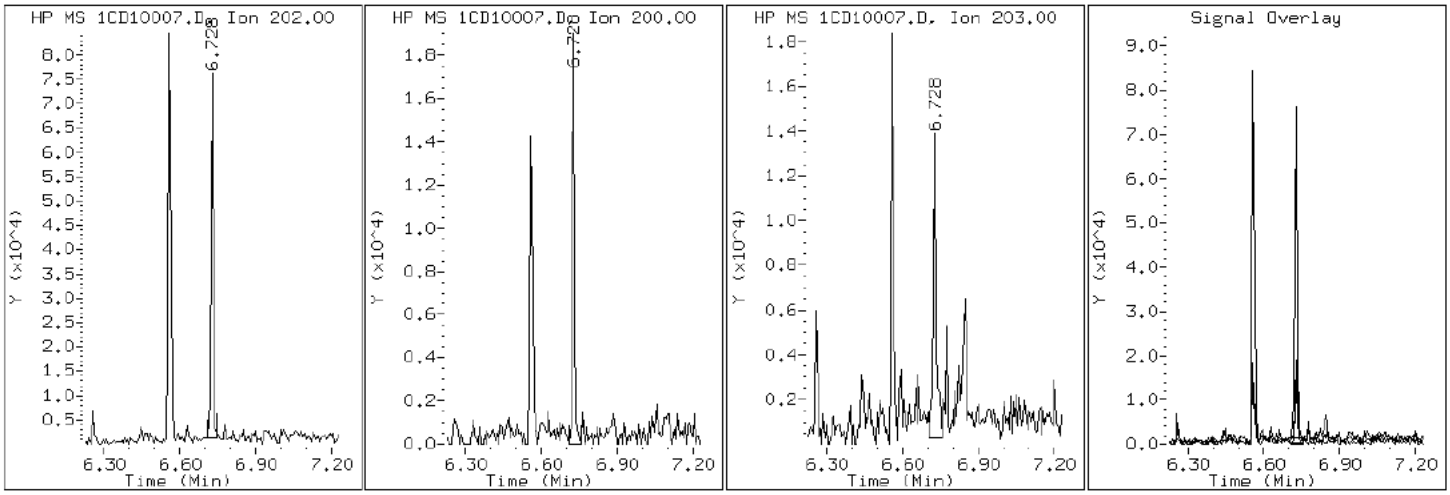
Data File: 1CD10007.D

Date: 10-APR-2013 13:24

Client ID: CV1127A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-60-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD10007.D
Inj. Date and Time: 10-APR-2013 13:24
Instrument ID: BSMC5973.i
Client ID: CV1127A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

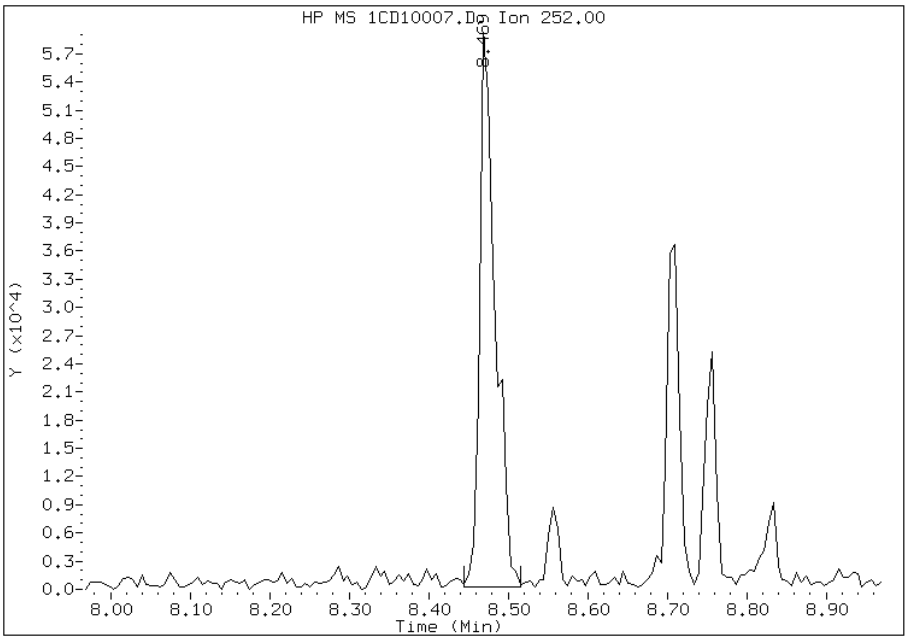
Processing Integration Results

RT: 8.47

Response: 81058

Amount: 5

Conc: 413



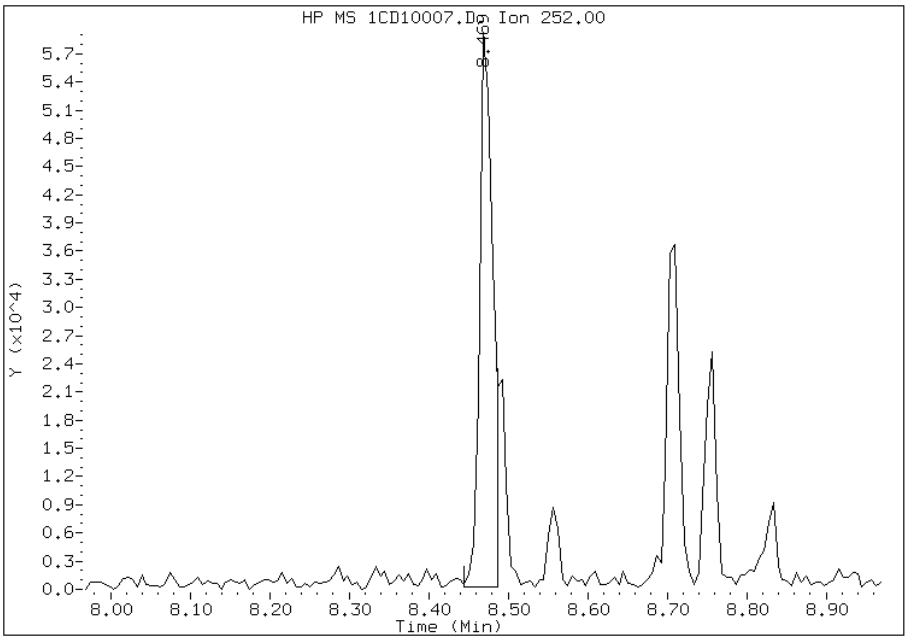
Manual Integration Results

RT: 8.47

Response: 67996

Amount: 4

Conc: 346



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 13:44
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD10007.D
Inj. Date and Time: 10-APR-2013 13:24
Instrument ID: BSMC5973.i
Client ID: CV1127A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

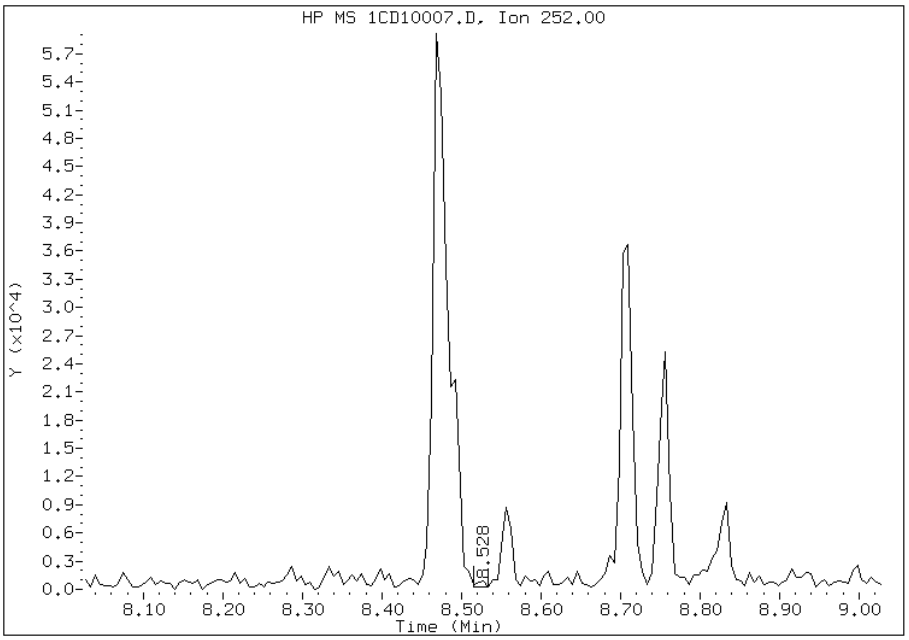
Processing Integration Results

RT: 8.53

Response: 539

Amount: 0

Conc: 3



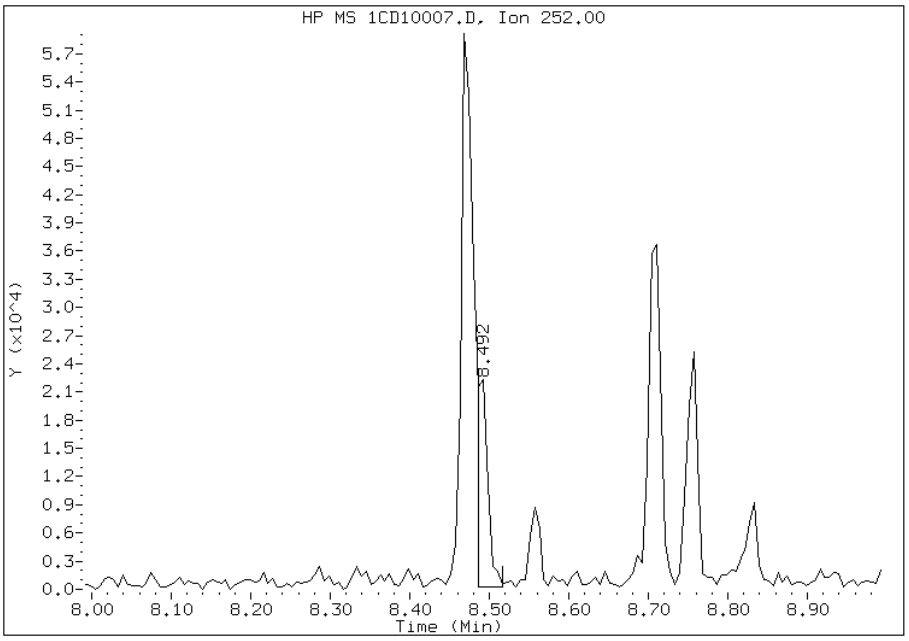
Manual Integration Results

RT: 8.49

Response: 20643

Amount: 1

Conc: 109



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 13:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10007.D
Inj. Date and Time: 10-APR-2013 13:24
Instrument ID: BSMC5973.i
Client ID: CV1127A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

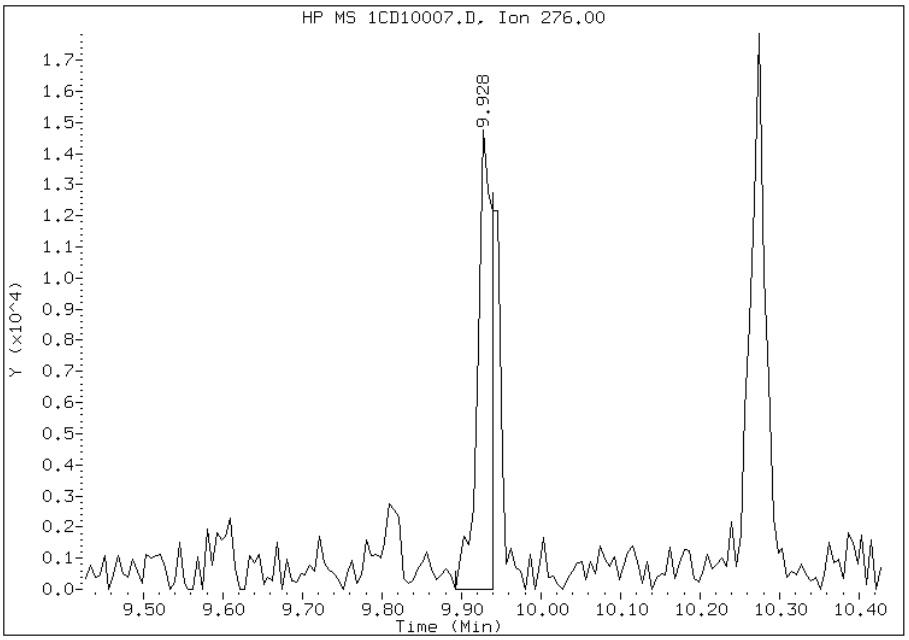
Processing Integration Results

RT: 9.93

Response: 19160

Amount: 1

Conc: 109



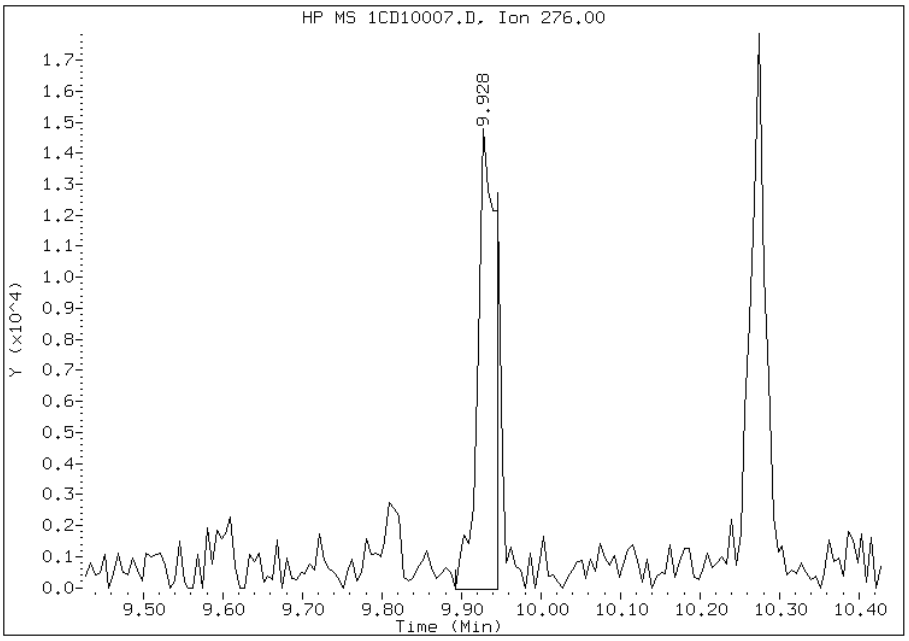
Manual Integration Results

RT: 9.93

Response: 23648

Amount: 2

Conc: 135



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 13:45
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1127A-CSD | Lab Sample ID: 680-88811-61

Matrix: Solid | Lab File ID: 1AD09018.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 10:32

Extract. Method: 3546 | Date Extracted: 04/08/2013 09:32

Sample wt/vol: 15.11(g) | Date Analyzed: 04/09/2013 17:33

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

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

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136269 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	60		48	6.0
120-12-7	Anthracene	72		10	5.1
56-55-3	Benzo[a]anthracene	200		9.6	4.7
50-32-8	Benzo[a]pyrene	170		13	6.3
205-99-2	Benzo[b]fluoranthene	490		15	7.3
191-24-2	Benzo[g,h,i]perylene	250		24	5.3
207-08-9	Benzo[k]fluoranthene	210		9.6	4.3
218-01-9	Chrysene	430		11	5.4
53-70-3	Dibenz(a,h)anthracene	67		24	4.9
206-44-0	Fluoranthene	430		24	4.8
86-73-7	Fluorene	24	U	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	250		24	8.6
90-12-0	1-Methylnaphthalene	57		48	5.3
91-57-6	2-Methylnaphthalene	63		48	8.6
91-20-3	Naphthalene	60		48	5.3
85-01-8	Phenanthrene	170		9.6	4.7
129-00-0	Pyrene	440		24	4.5

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\BSMA5973.i\1A040913_IC.b\1AD09018.D
Lab Smp Id: 680-88811-A-61-A Client Smp ID: CV1127A-CSD
Inj Date : 09-APR-2013 17:33
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88811-a-61-a
Misc Info : 680-88811-A-61-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:20 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	17.588	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.590	2.591	(1.000)	1710192	40.0000	
*	6 Acenaphthene-d10	164	3.621	3.622	(1.000)	892990	40.0000	
*	10 Phenanthrene-d10	188	4.577	4.573	(1.000)	1454131	40.0000	
$	14 o-Terphenyl	230	4.876	4.877	(1.065)	185609	6.04403	485.3681
*	18 Chrysene-d12	240	6.596	6.597	(1.000)	1261525	40.0000	
*	23 Perylene-d12	264	7.680	7.676	(1.000)	1497273	40.0000	
	2 Naphthalene	128	2.601	2.602	(1.004)	32846	0.74764	60.0398
	3 2-Methylnaphthalene	141	3.007	3.008	(1.161)	24352	0.78722	63.2179
	4 1-Methylnaphthalene	142	3.060	3.062	(1.181)	22229	0.71163	57.1481
	5 Acenaphthylene	152	3.530	3.532	(0.975)	25399	0.75082	60.2946
	11 Phenanthrene	178	4.588	4.589	(1.002)	122614	2.12573	170.7074
	12 Anthracene	178	4.620	4.626	(1.009)	42468	0.89509	71.8805
	13 Carbazole	167	4.748	4.755	(1.037)	32499	0.63726	51.1754
	15 Fluoranthene	202	5.453	5.454	(1.191)	330311	5.38259	432.2510

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Pyrene	202	5.619	5.620	(0.852)	269033	5.53430	444.4340
17 Benzo(a)anthracene	228	6.586	6.581	(0.998)	105659	2.51087	201.6365
19 Chrysene	228	6.612	6.613	(1.002)	228635	5.32729	427.8102
20 Benzo(b)fluoranthene	252	7.403	7.404	(0.964)	279620	6.15904	494.6041(M)
21 Benzo(k)fluoranthene	252	7.413	7.425	(0.965)	129308	2.56444	205.9384(QM)
22 Benzo(a)pyrene	252	7.627	7.628	(0.993)	127695	2.11764	170.0578
24 Indeno(1,2,3-cd)pyrene	276	8.450	8.451	(1.100)	117620	3.12080	250.6173(M)
25 Dibenzo(a,h)anthracene	278	8.476	8.477	(1.104)	31746	0.83866	67.3489
26 Benzo(g,h,i)perylene	276	8.669	8.670	(1.129)	125832	3.08560	247.7901

QC Flag Legend

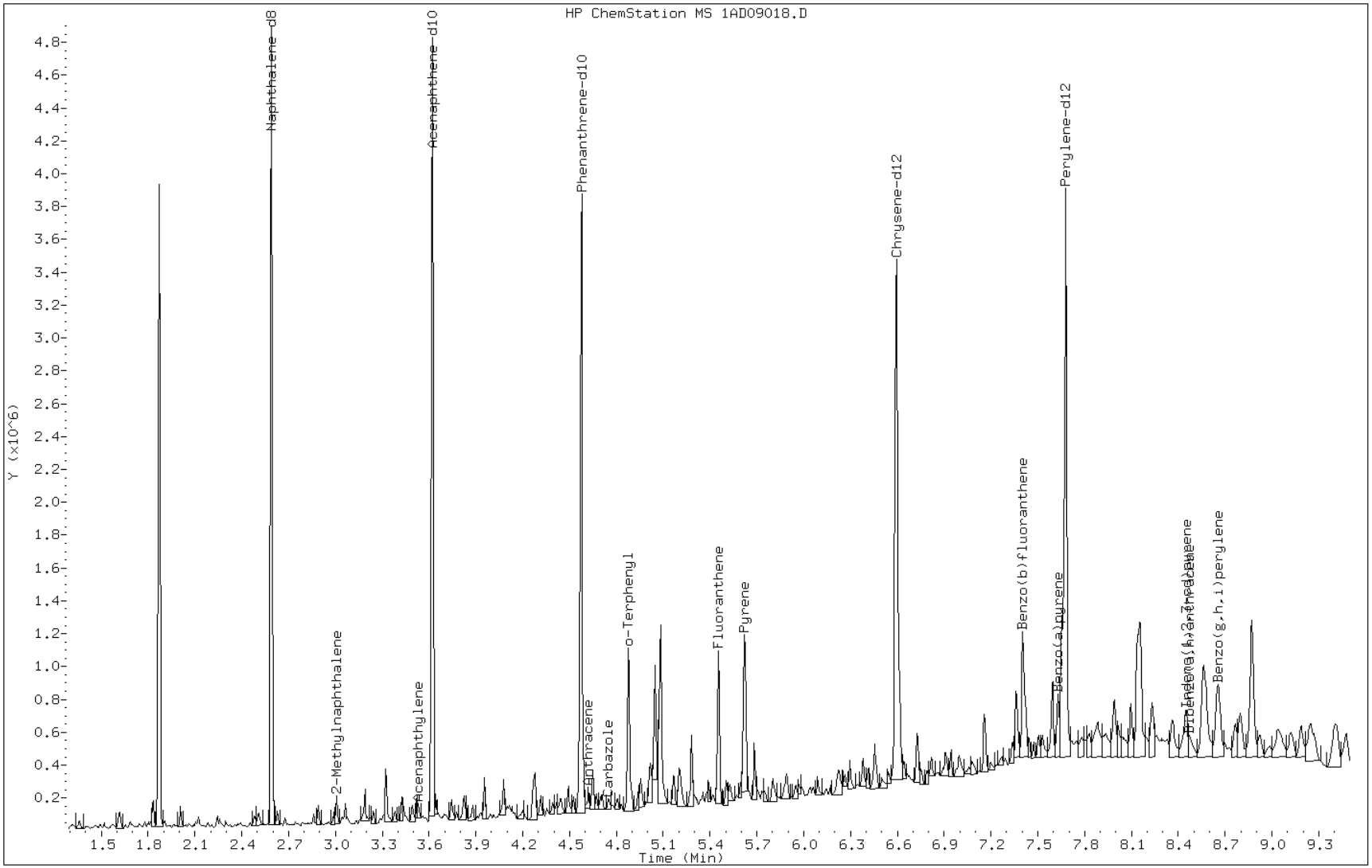
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AD09018.D

Date: 09-APR-2013 17:33

Client ID: CV1127A-CSD Instrument: BSMA5973.i

Sample Info: 680-88811-a-61-a Operator: SCC



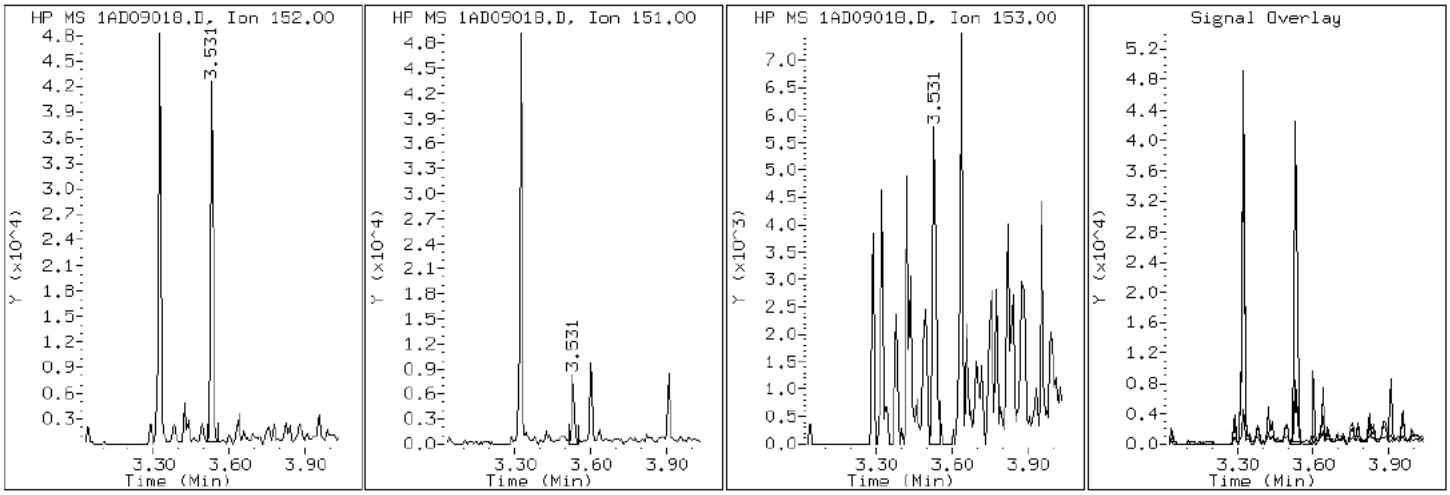
Data File: 1AD09018.D

Date: 09-APR-2013 17:33

Client ID: CV1127A-CSD Instrument: BSMA5973.i

Sample Info: 680-88811-a-61-a Operator: SCC

5 Acenaphthylene



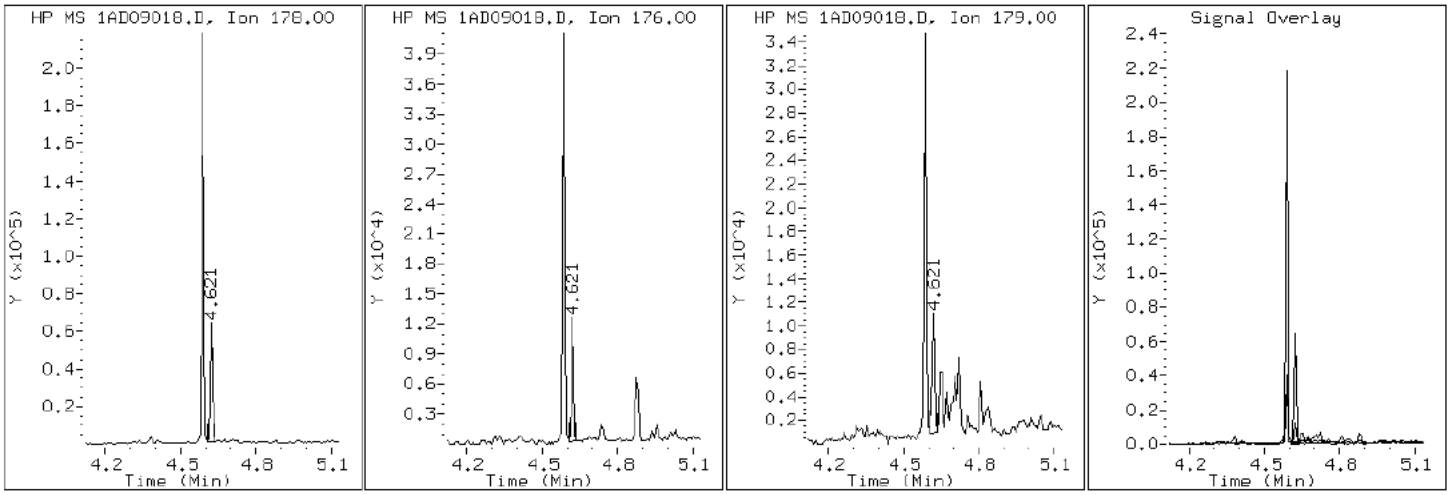
Data File: 1AD09018.D

Date: 09-APR-2013 17:33

Client ID: CV1127A-CSD Instrument: BSMA5973.i

Sample Info: 680-88811-a-61-a Operator: SCC

12 Anthracene



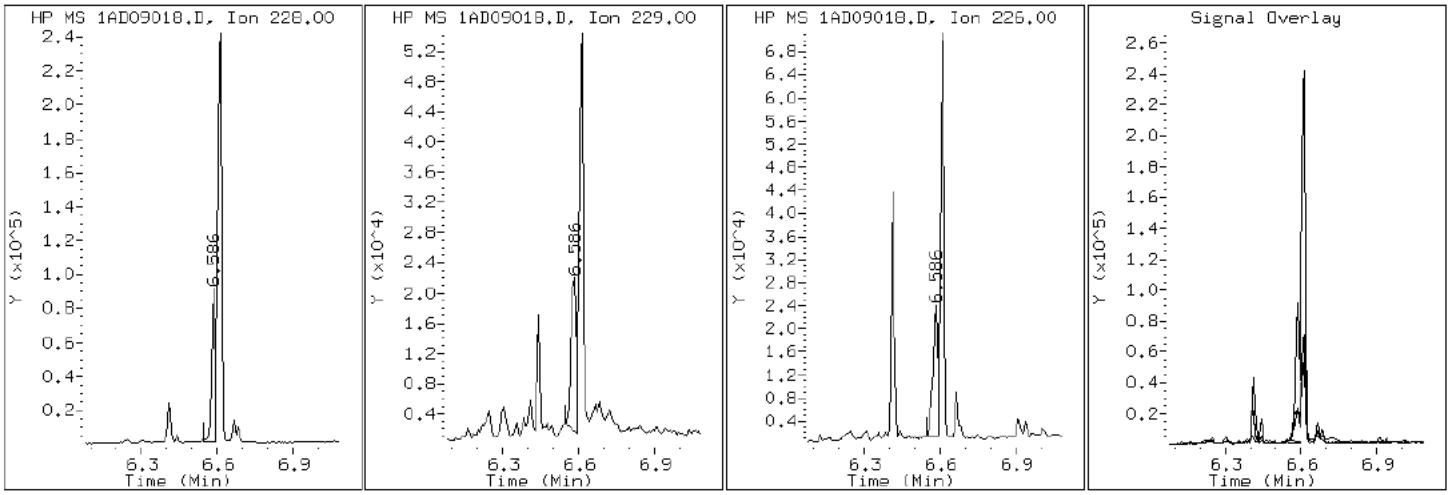
Data File: 1AD09018.D

Date: 09-APR-2013 17:33

Client ID: CV1127A-CSD Instrument: BSMA5973.i

Sample Info: 680-88811-a-61-a Operator: SCC

17 Benzo(a)anthracene



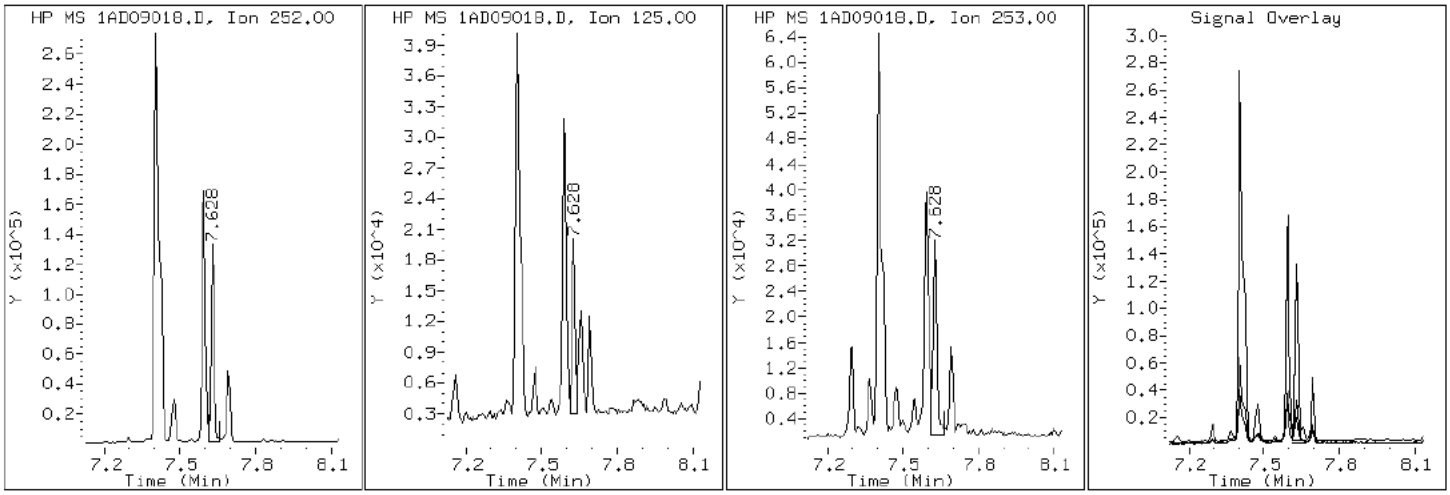
Data File: 1AD09018.D

Date: 09-APR-2013 17:33

Client ID: CV1127A-CSD Instrument: BSMA5973.i

Sample Info: 680-88811-a-61-a Operator: SCC

22 Benzo(a)pyrene



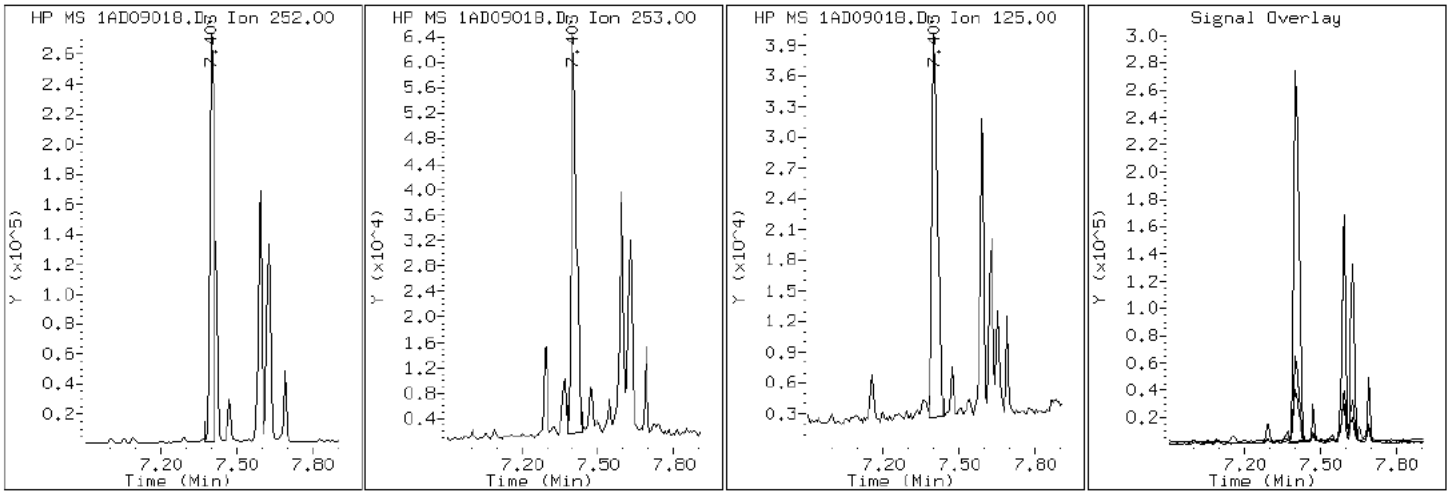
Data File: 1AD09018.D

Date: 09-APR-2013 17:33

Client ID: CV1127A-CSD Instrument: BSMA5973.i

Sample Info: 680-88811-a-61-a Operator: SCC

20 Benzo(b)fluoranthene



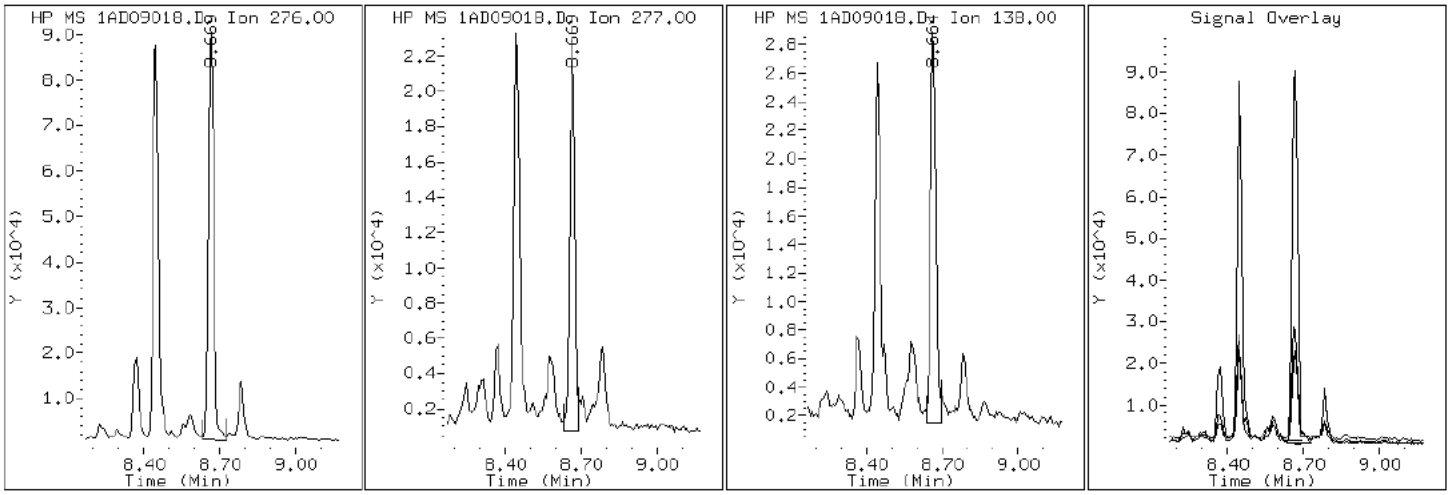
Data File: 1AD09018.D

Date: 09-APR-2013 17:33

Client ID: CV1127A-CSD Instrument: BSMA5973.i

Sample Info: 680-88811-a-61-a Operator: SCC

26 Benzo(g,h,i)perylene



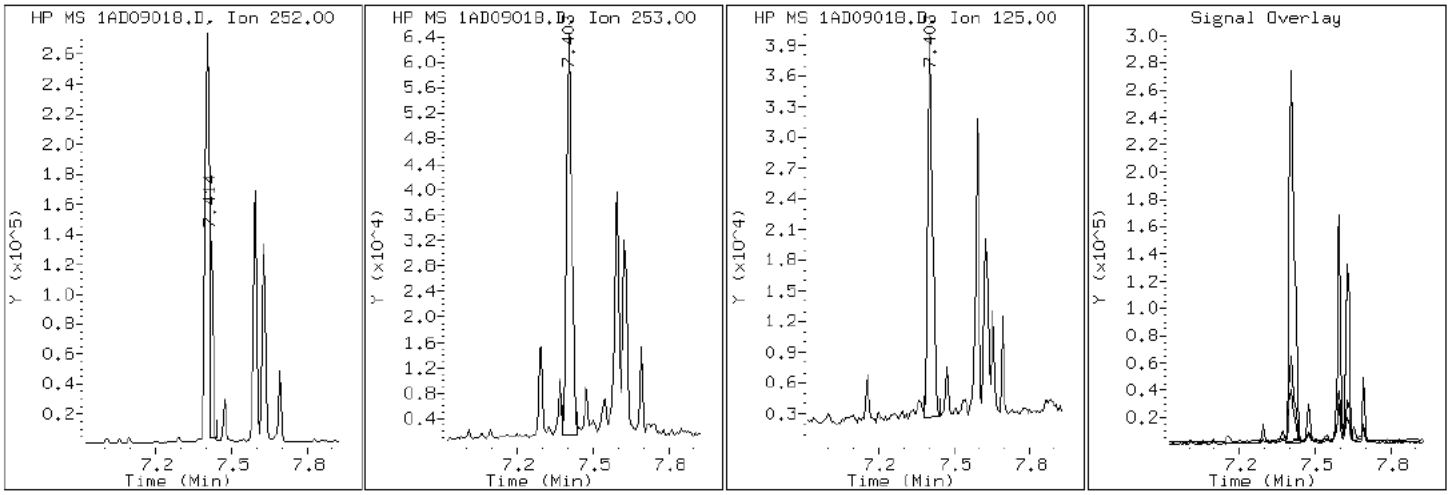
Data File: 1AD09018.D

Date: 09-APR-2013 17:33

Client ID: CV1127A-CSD Instrument: BSMA5973.i

Sample Info: 680-88811-a-61-a Operator: SCC

21 Benzo(k)fluoranthene



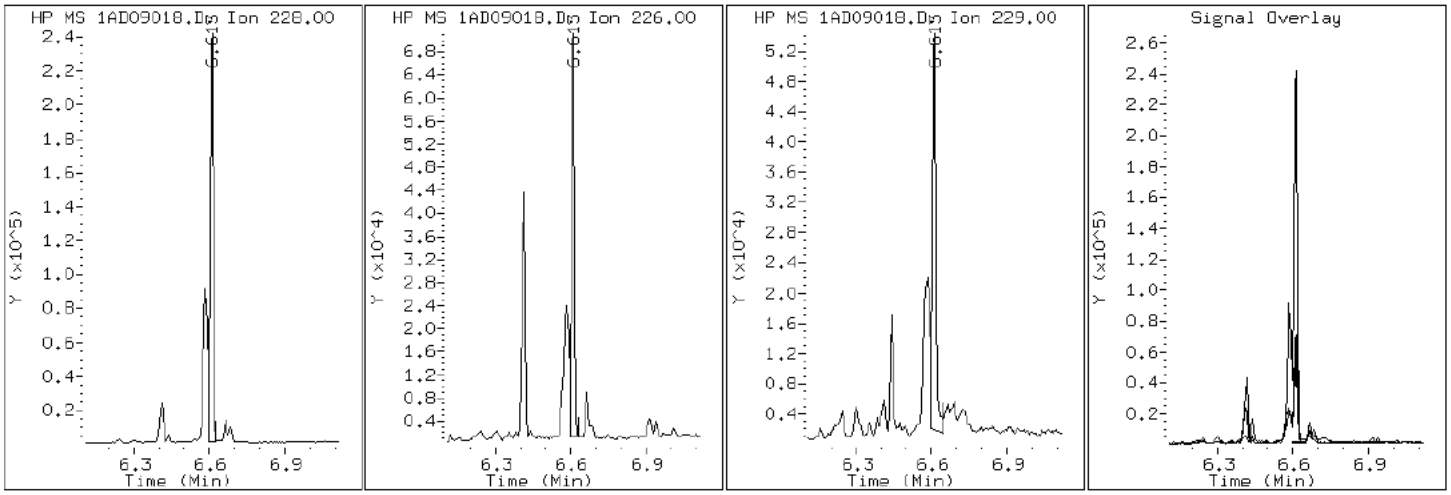
Data File: 1AD09018.D

Date: 09-APR-2013 17:33

Client ID: CV1127A-CSD Instrument: BSMA5973.i

Sample Info: 680-88811-a-61-a Operator: SCC

19 Chrysene



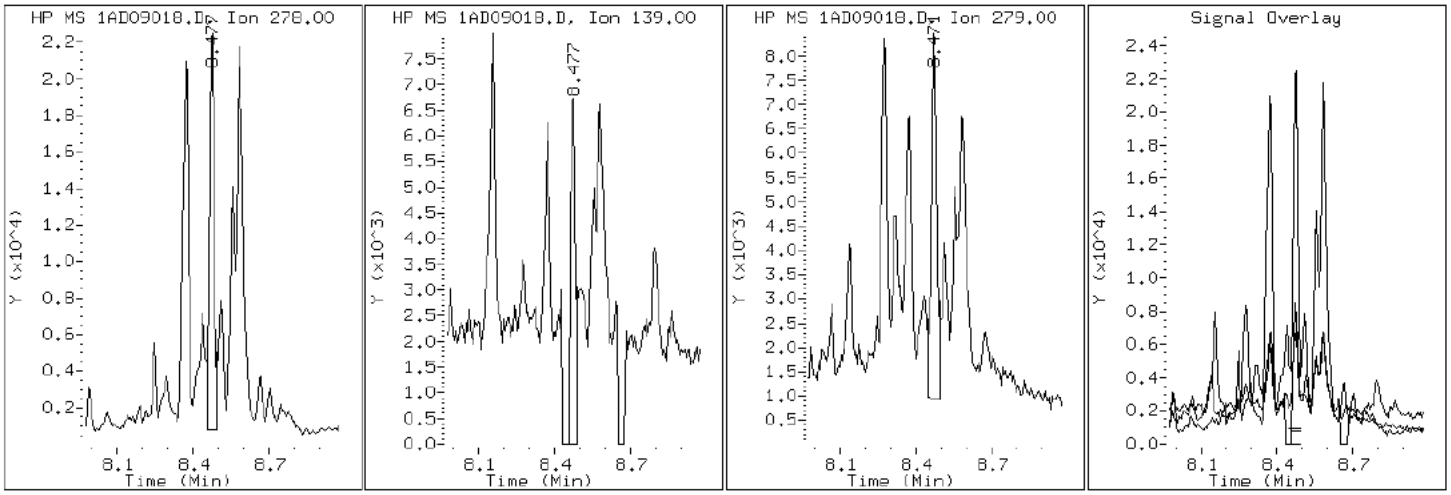
Data File: 1AD09018.D

Date: 09-APR-2013 17:33

Client ID: CV1127A-CSD Instrument: BSMA5973.i

Sample Info: 680-88811-a-61-a Operator: SCC

25 Dibenzo(a,h)anthracene



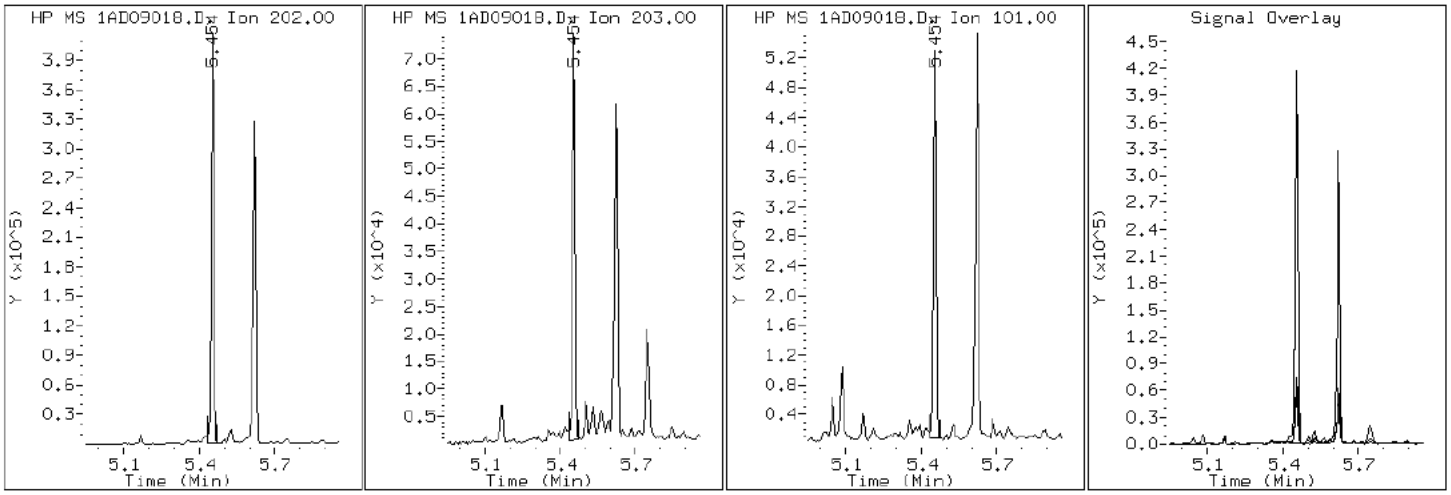
Data File: 1AD09018.D

Date: 09-APR-2013 17:33

Client ID: CV1127A-CSD Instrument: BSMA5973.i

Sample Info: 680-88811-a-61-a Operator: SCC

15 Fluoranthene



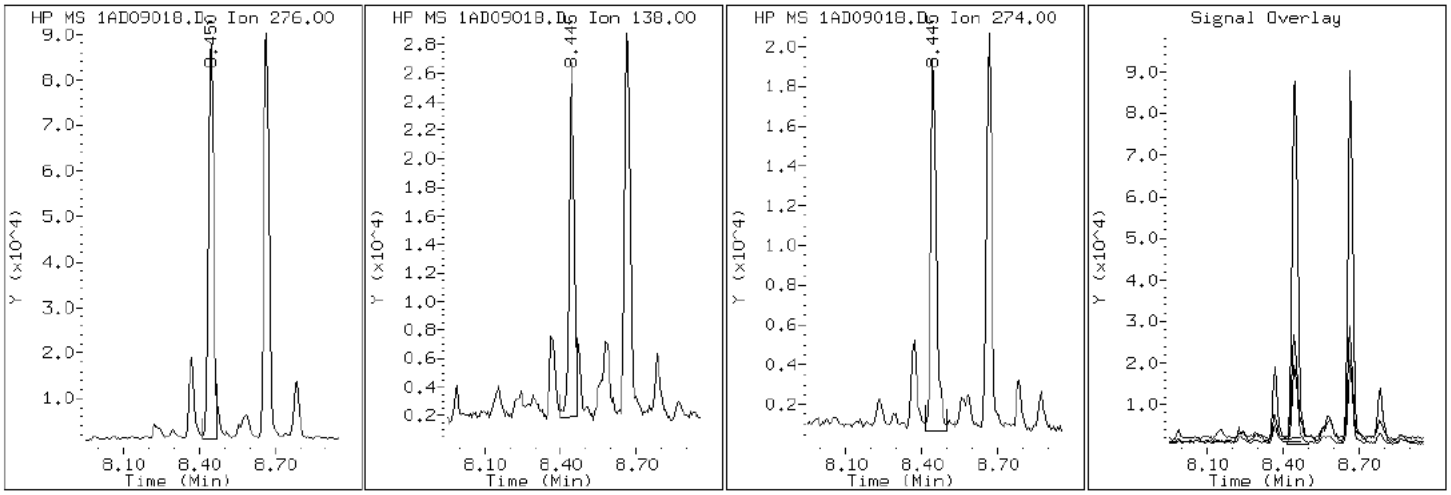
Data File: 1AD09018.D

Date: 09-APR-2013 17:33

Client ID: CV1127A-CSD Instrument: BSMA5973.i

Sample Info: 680-88811-a-61-a Operator: SCC

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



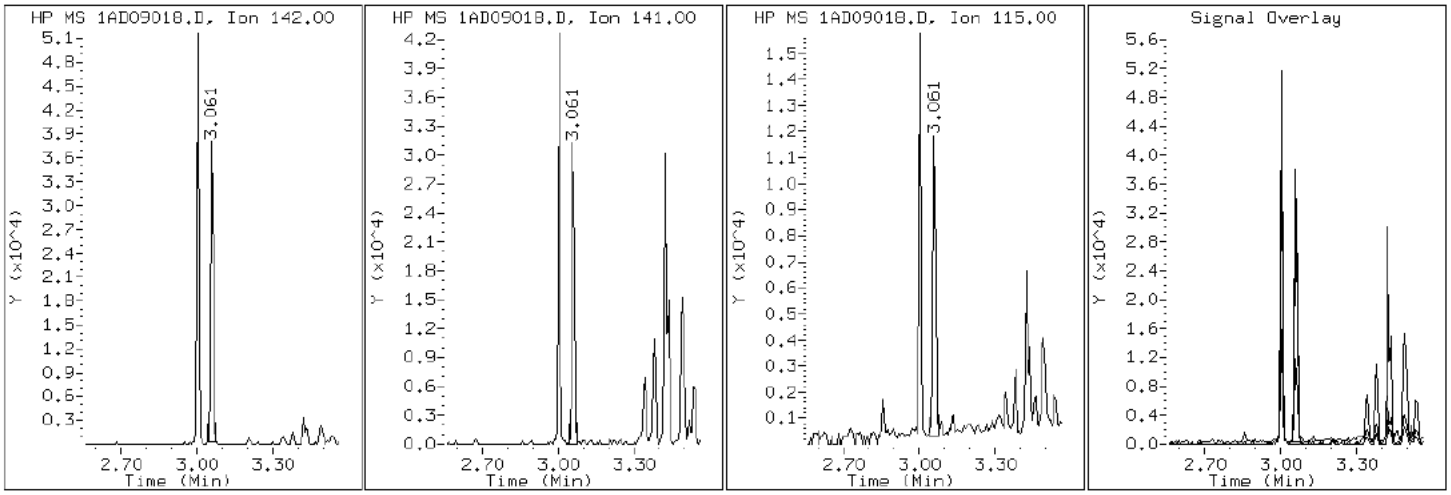
Data File: 1AD09018.D

Date: 09-APR-2013 17:33

Client ID: CV1127A-CSD Instrument: BSMA5973.i

Sample Info: 680-88811-a-61-a Operator: SCC

4 1-Methylnaphthalene



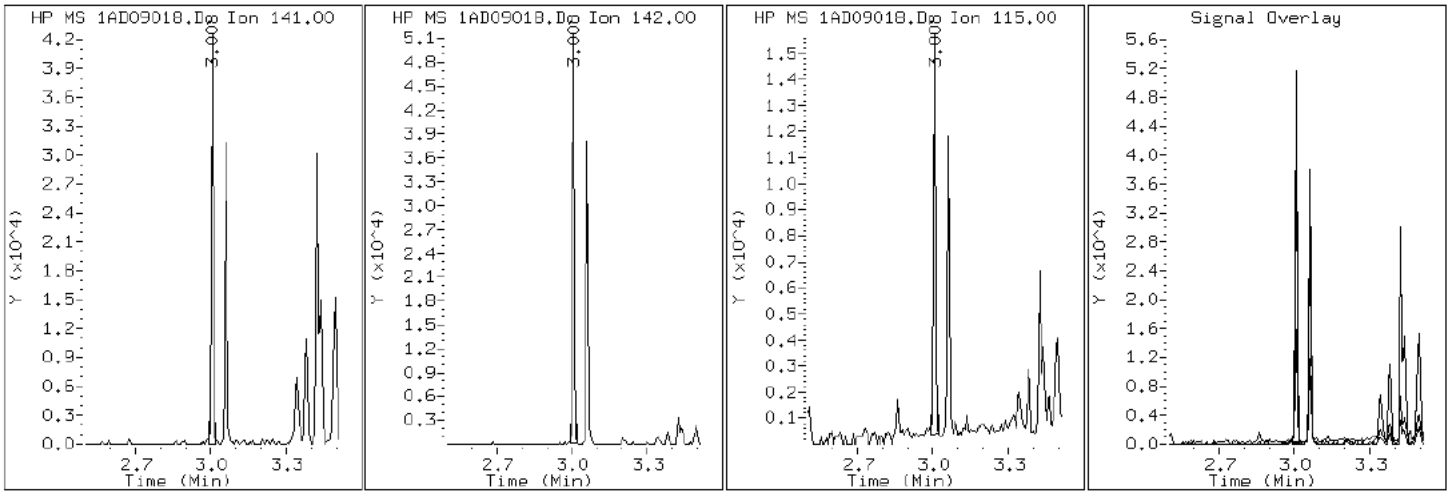
Data File: 1AD09018.D

Date: 09-APR-2013 17:33

Client ID: CV1127A-CSD Instrument: BSMA5973.i

Sample Info: 680-88811-a-61-a Operator: SCC

3 2-Methylnaphthalene



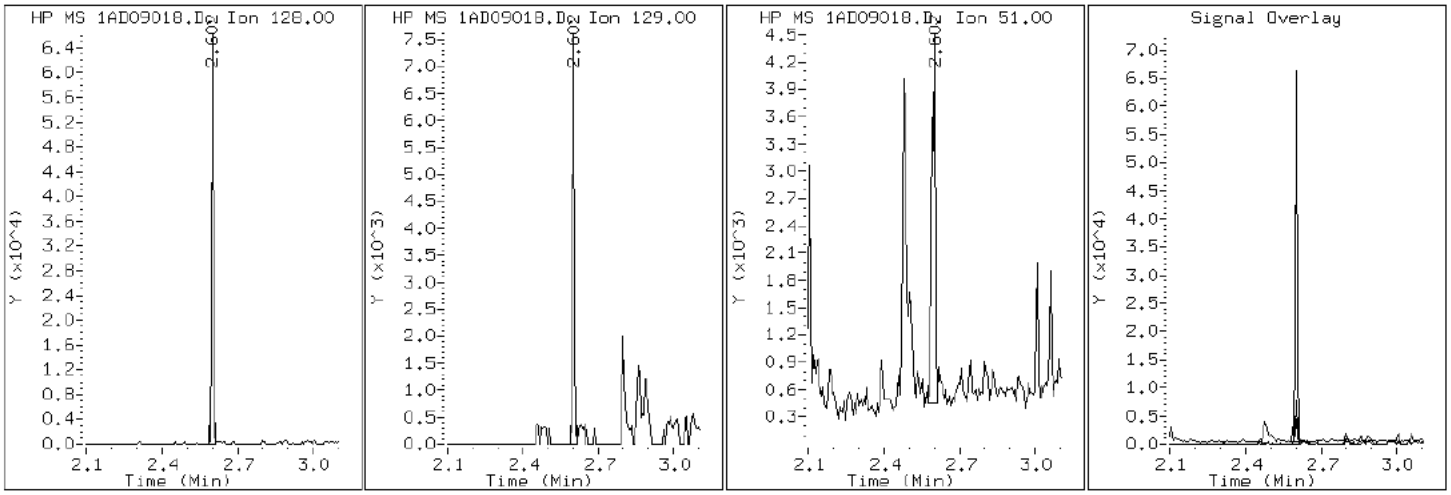
Data File: 1AD09018.D

Date: 09-APR-2013 17:33

Client ID: CV1127A-CSD Instrument: BSMA5973.i

Sample Info: 680-88811-a-61-a Operator: SCC

2 Naphthalene



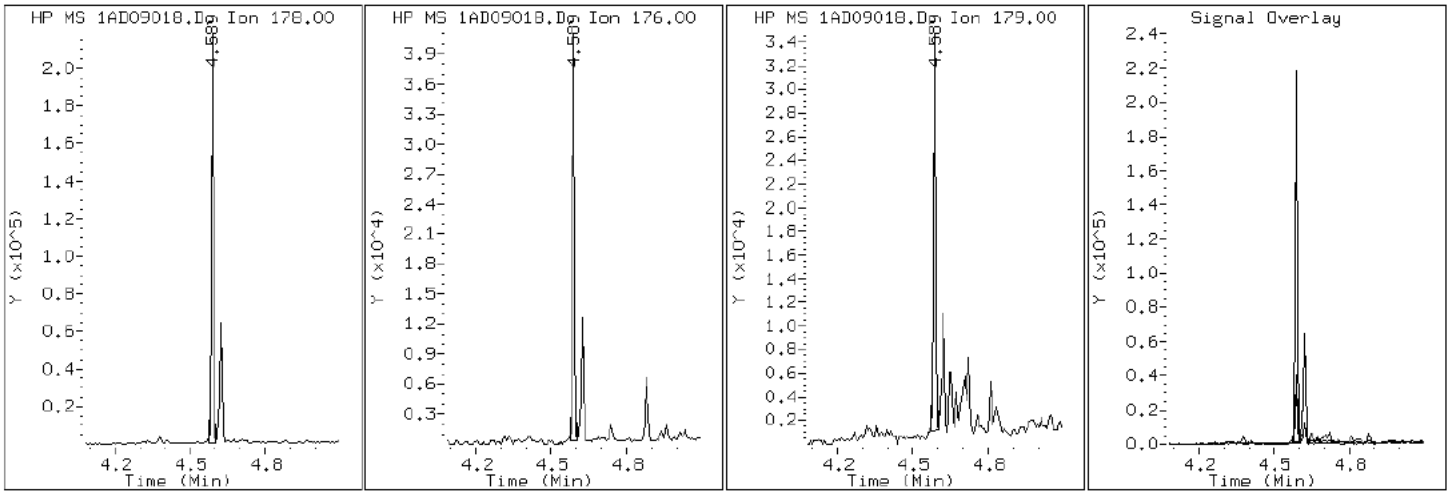
Data File: 1AD09018.D

Date: 09-APR-2013 17:33

Client ID: CV1127A-CSD Instrument: BSMA5973.i

Sample Info: 680-88811-a-61-a Operator: SCC

11 Phenanthrene



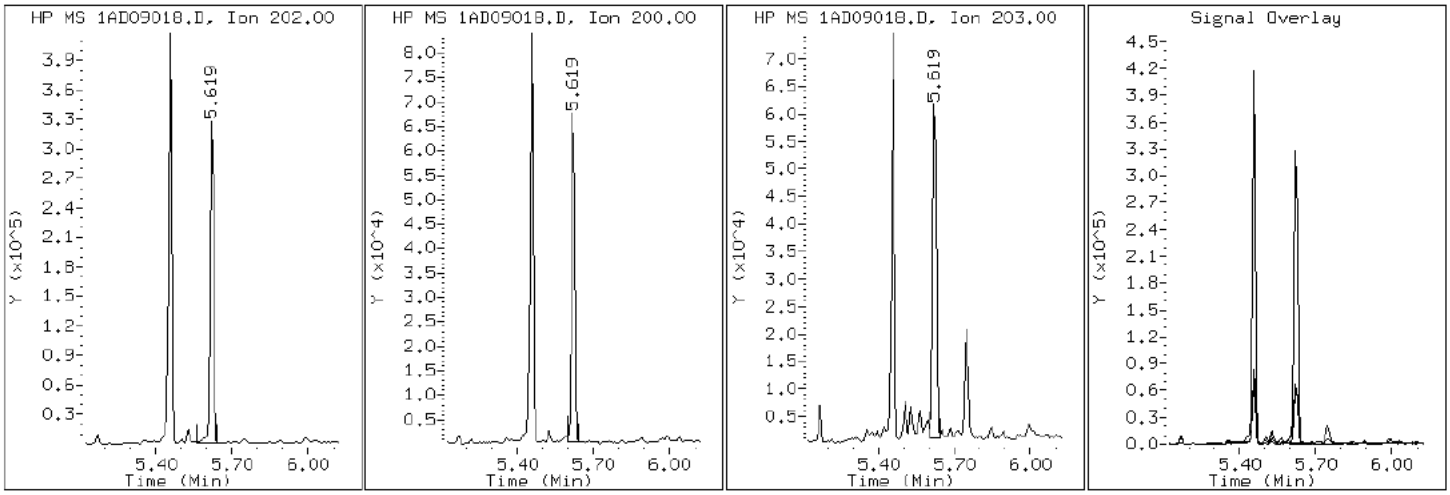
Data File: 1AD09018.D

Date: 09-APR-2013 17:33

Client ID: CV1127A-CSD Instrument: BSMA5973.i

Sample Info: 680-88811-a-61-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD09018.D
Inj. Date and Time: 09-APR-2013 17:33
Instrument ID: BSMA5973.i
Client ID: CV1127A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

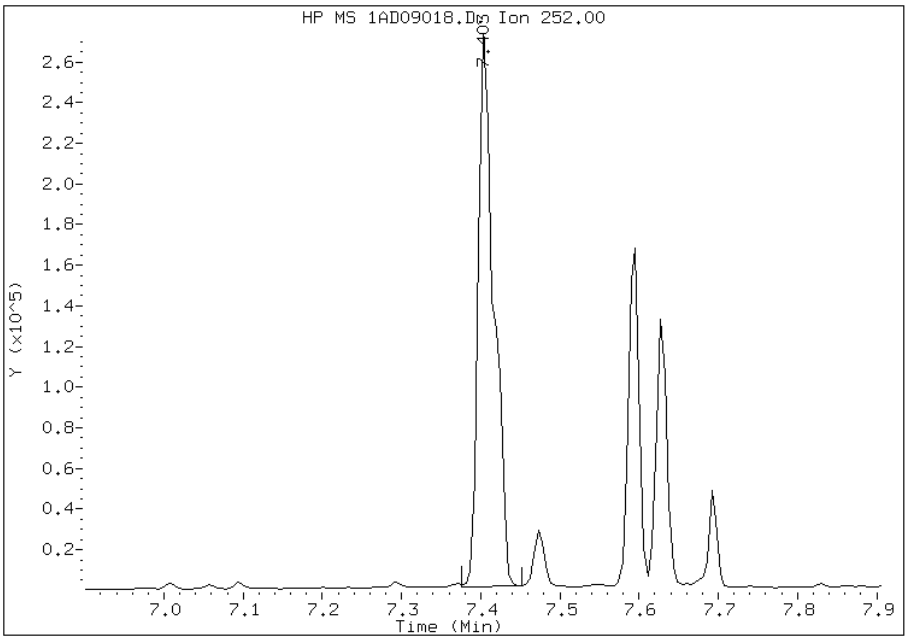
Processing Integration Results

RT: 7.40

Response: 367992

Amount: 8

Conc: 651



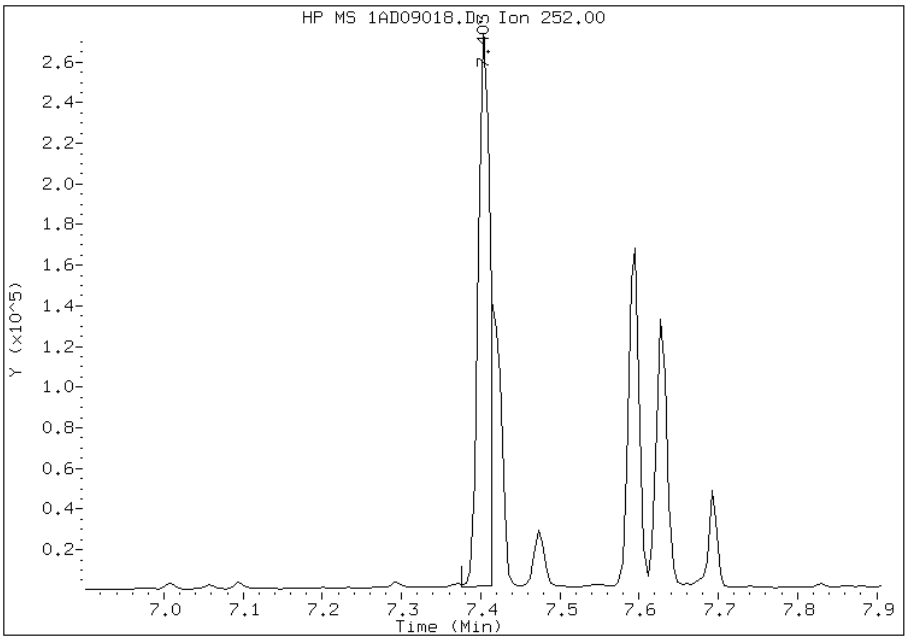
Manual Integration Results

RT: 7.40

Response: 279620

Amount: 6

Conc: 495



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 12:03
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD09018.D
Inj. Date and Time: 09-APR-2013 17:33
Instrument ID: BSMA5973.i
Client ID: CV1127A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

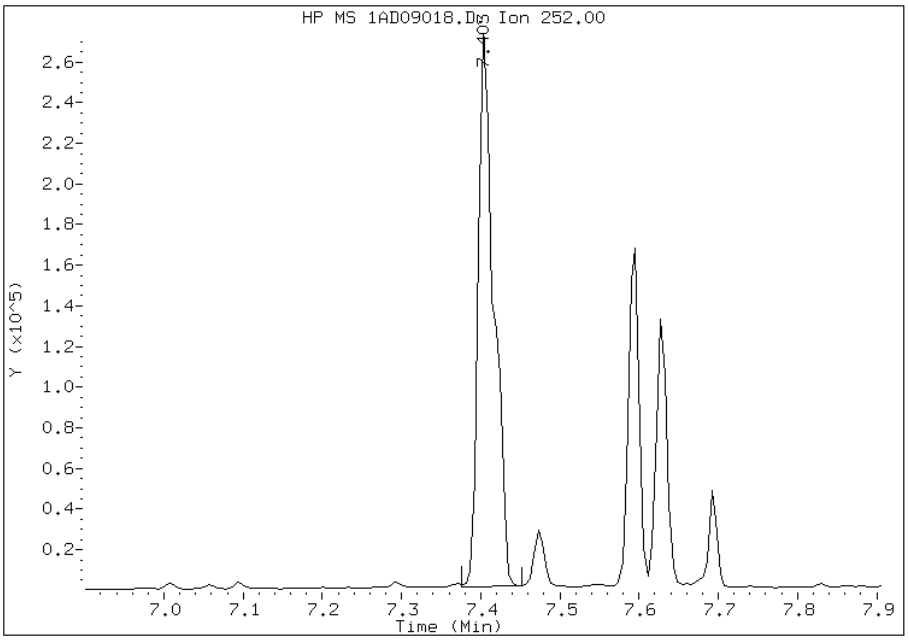
Processing Integration Results

RT: 7.40

Response: 367992

Amount: 7

Conc: 586



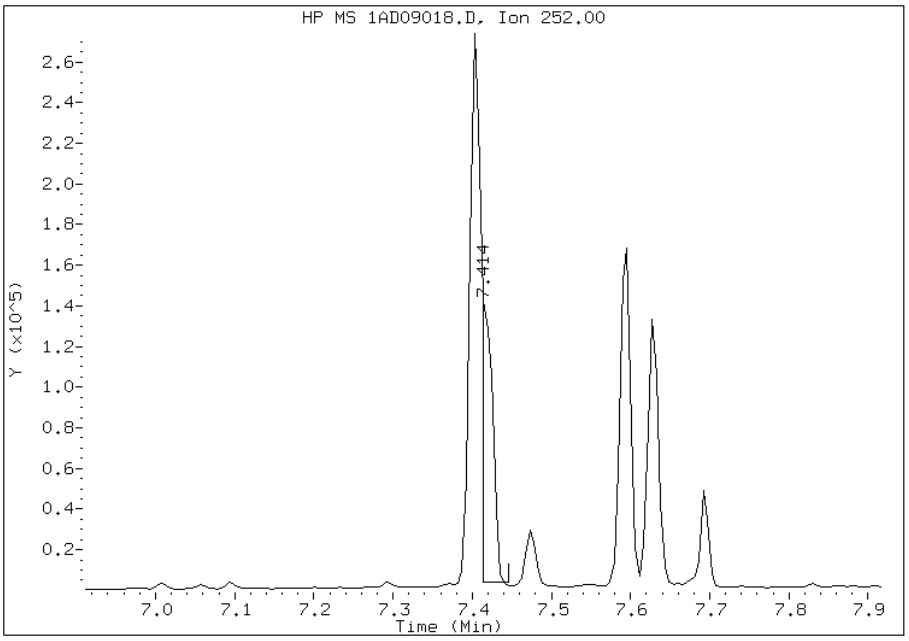
Manual Integration Results

RT: 7.41

Response: 129308

Amount: 3

Conc: 206



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 12:03
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD09018.D
Inj. Date and Time: 09-APR-2013 17:33
Instrument ID: BSMA5973.i
Client ID: CV1127A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

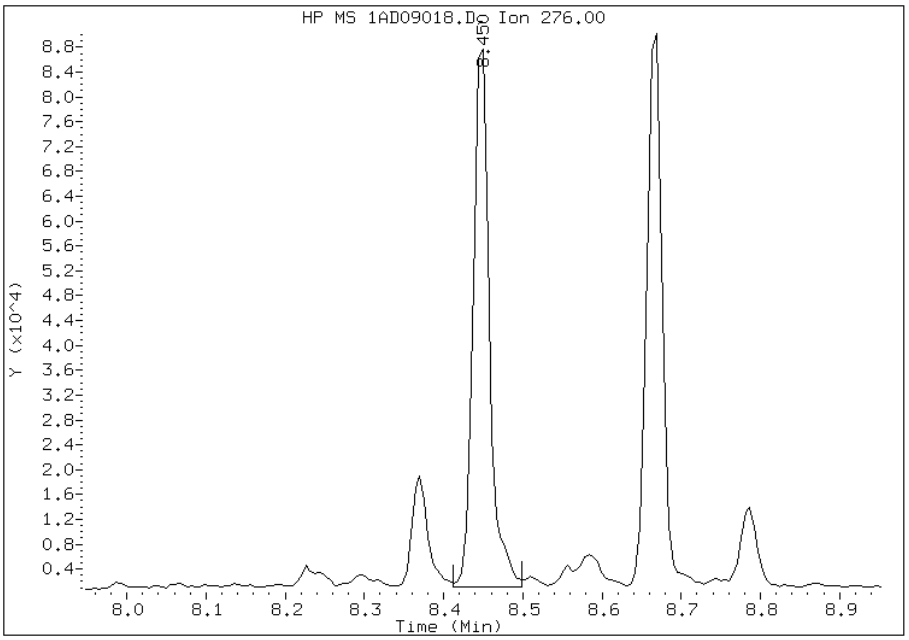
Processing Integration Results

RT: 8.45

Response: 122639

Amount: 3

Conc: 260



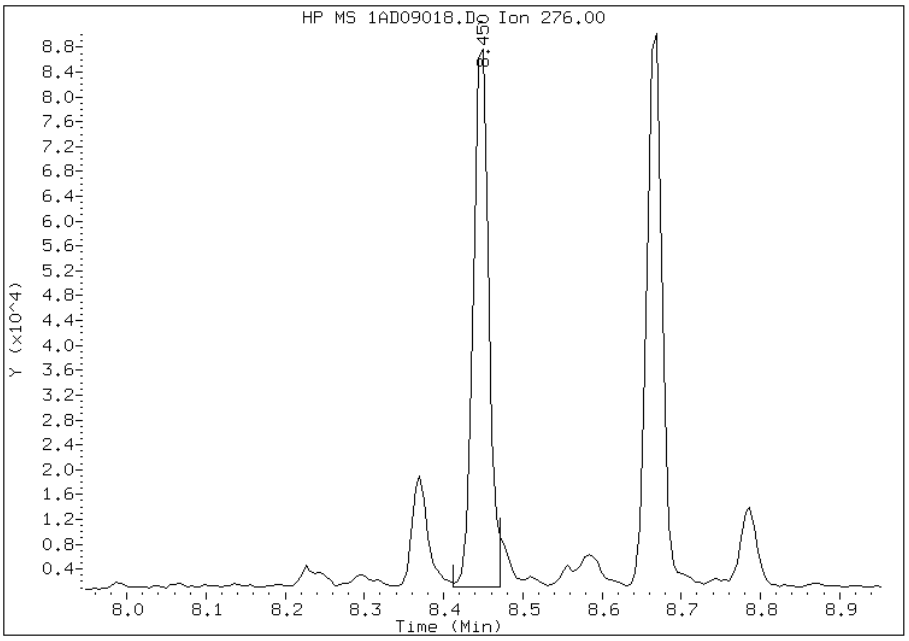
Manual Integration Results

RT: 8.45

Response: 117620

Amount: 3

Conc: 251



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 12:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1131A-CS | Lab Sample ID: 680-88811-63

Matrix: Solid | Lab File ID: 1AD09022.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 11:00

Extract. Method: 3546 | Date Extracted: 04/08/2013 09:32

Sample wt/vol: 14.91(g) | Date Analyzed: 04/09/2013 18:33

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

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

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

Analysis Batch No.: 136269 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	61	J	120	24
208-96-8	Acenaphthylene	56		48	6.0
120-12-7	Anthracene	93		10	5.1
56-55-3	Benzo[a]anthracene	350		9.7	4.7
50-32-8	Benzo[a]pyrene	340		13	6.3
205-99-2	Benzo[b]fluoranthene	670		15	7.4
191-24-2	Benzo[g,h,i]perylene	380		24	5.3
207-08-9	Benzo[k]fluoranthene	200		9.7	4.3
218-01-9	Chrysene	450		11	5.4
53-70-3	Dibenz(a,h)anthracene	120		24	4.9
206-44-0	Fluoranthene	550		24	4.8
86-73-7	Fluorene	48		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	370		24	8.6
90-12-0	1-Methylnaphthalene	100		48	5.3
91-57-6	2-Methylnaphthalene	150		48	8.6
91-20-3	Naphthalene	180		48	5.3
85-01-8	Phenanthrene	390		9.7	4.7
129-00-0	Pyrene	500		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09022.D
Lab Smp Id: 680-88811-A-63-A Client Smp ID: CV1131A-CS
Inj Date : 09-APR-2013 18:33
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88811-a-63-a
Misc Info : 680-88811-A-63-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:20 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 22
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	14.910	Weight Extracted
M	16.638	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	2.593	2.591	(1.000)	1567279	40.0000	
* 6	Acenaphthene-d10	164	3.624	3.622	(1.000)	804546	40.0000	
* 10	Phenanthrene-d10	188	4.580	4.573	(1.000)	1261172	40.0000	
$ 14	o-Terphenyl	230	4.885	4.877	(1.066)	158185	5.92589	476.7712
* 18	Chrysene-d12	240	6.604	6.597	(1.000)	1201691	40.0000	
* 23	Perylene-d12	264	7.689	7.676	(1.000)	1447368	40.0000	
2	Naphthalene	128	2.604	2.602	(1.004)	125377	2.23236	179.6063
3	2-Methylnaphthalene	141	3.010	3.008	(1.161)	59583	1.81439	145.9778
4	1-Methylnaphthalene	142	3.063	3.062	(1.181)	47236	1.30218	104.7677
5	Acenaphthylene	152	3.533	3.532	(0.975)	19111	0.70201	56.4808
7	Acenaphthene	154	3.640	3.638	(1.004)	12311	0.75337	60.6130
9	Fluorene	166	3.955	3.953	(1.091)	14573	0.59377	47.7724
11	Phenanthrene	178	4.591	4.589	(1.002)	237264	4.81777	387.6169
12	Anthracene	178	4.628	4.626	(1.010)	52969	1.15115	92.6169

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.756	4.755	(1.038)	36976	0.81802	65.8140
15 Fluoranthene	202	5.461	5.454	(1.192)	358491	6.87842	553.4078
16 Pyrene	202	5.627	5.620	(0.852)	290343	6.27006	504.4614
17 Benzo(a)anthracene	228	6.594	6.581	(0.998)	172961	4.31488	347.1568
19 Chrysene	228	6.620	6.613	(1.002)	226476	5.53973	445.7029
20 Benzo(b)fluoranthene	252	7.416	7.404	(0.965)	367687	8.37809	674.0647(M)
21 Benzo(k)fluoranthene	252	7.427	7.425	(0.966)	122272	2.50851	201.8239(QM)
22 Benzo(a)pyrene	252	7.635	7.628	(0.993)	210415	4.26043	342.7757
24 Indeno(1,2,3-cd)pyrene	276	8.463	8.451	(1.101)	175892	4.60895	370.8162(M)
25 Dibenzo(a,h)anthracene	278	8.490	8.477	(1.104)	54126	1.47919	119.0094
26 Benzo(g,h,i)perylene	276	8.687	8.670	(1.130)	184435	4.67857	376.4177

QC Flag Legend

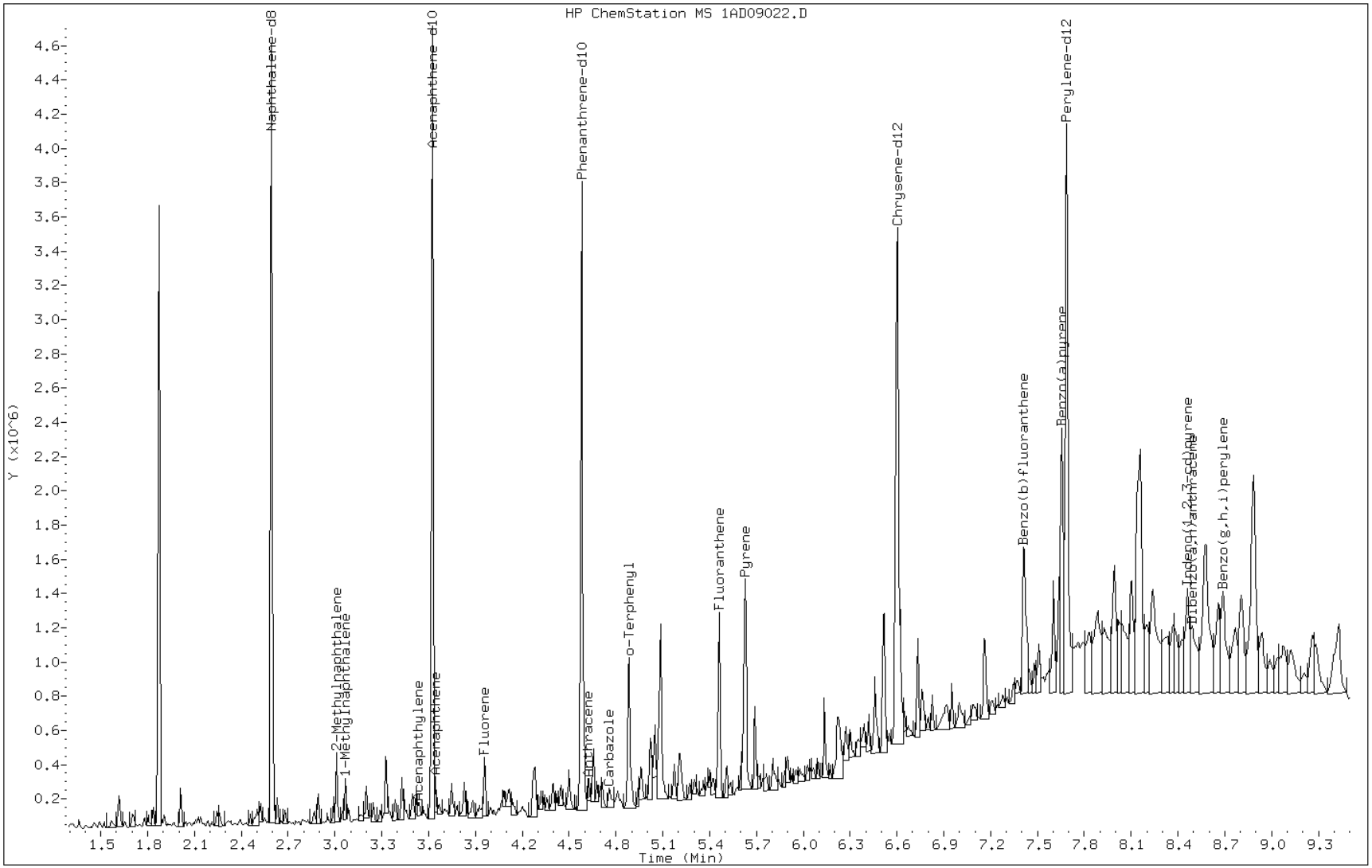
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC



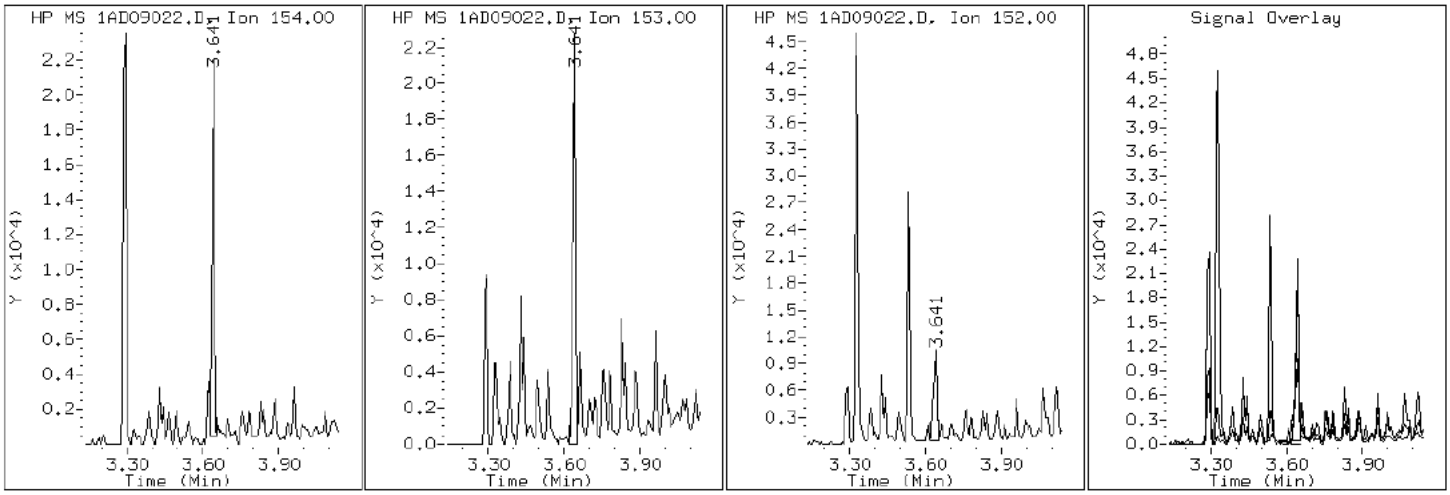
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

7 Acenaphthene



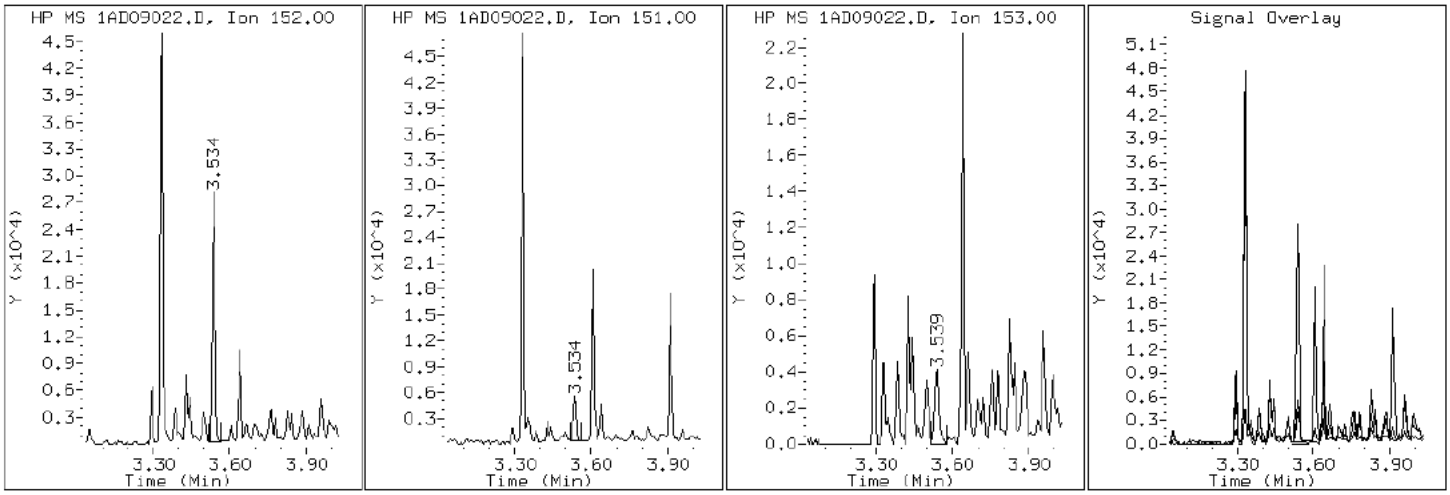
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

5 Acenaphthylene



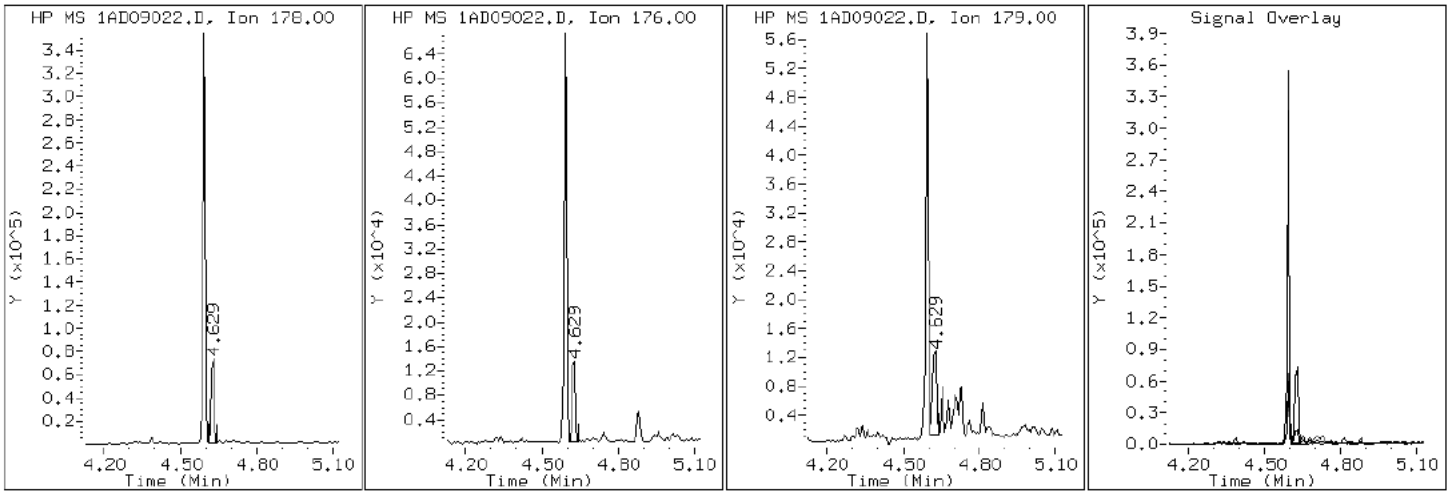
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

12 Anthracene



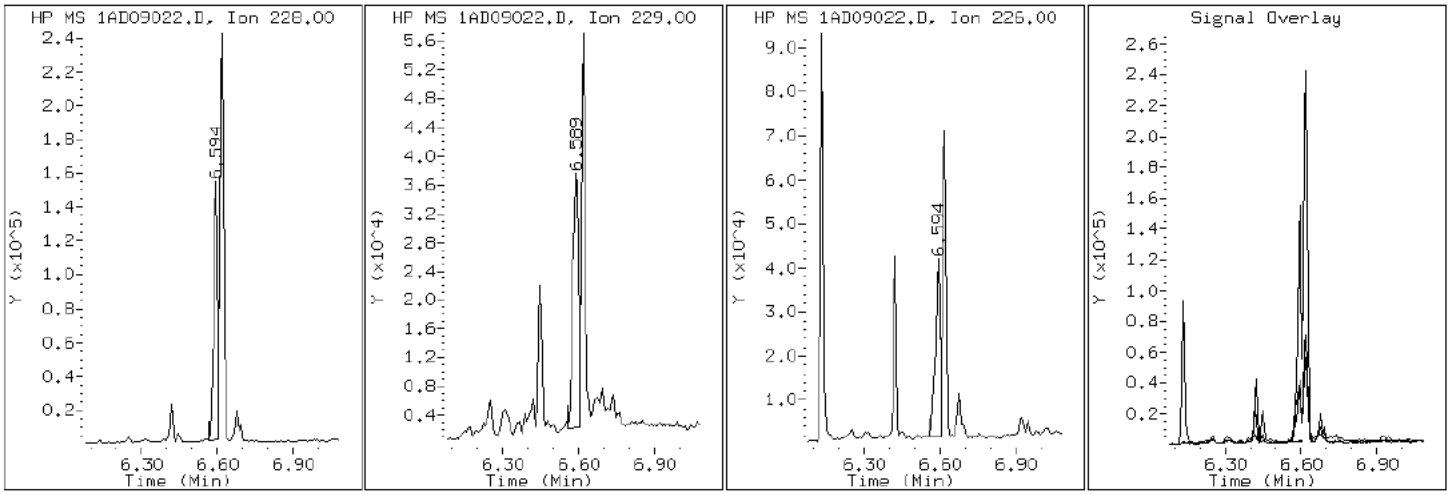
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

17 Benzo(a)anthracene



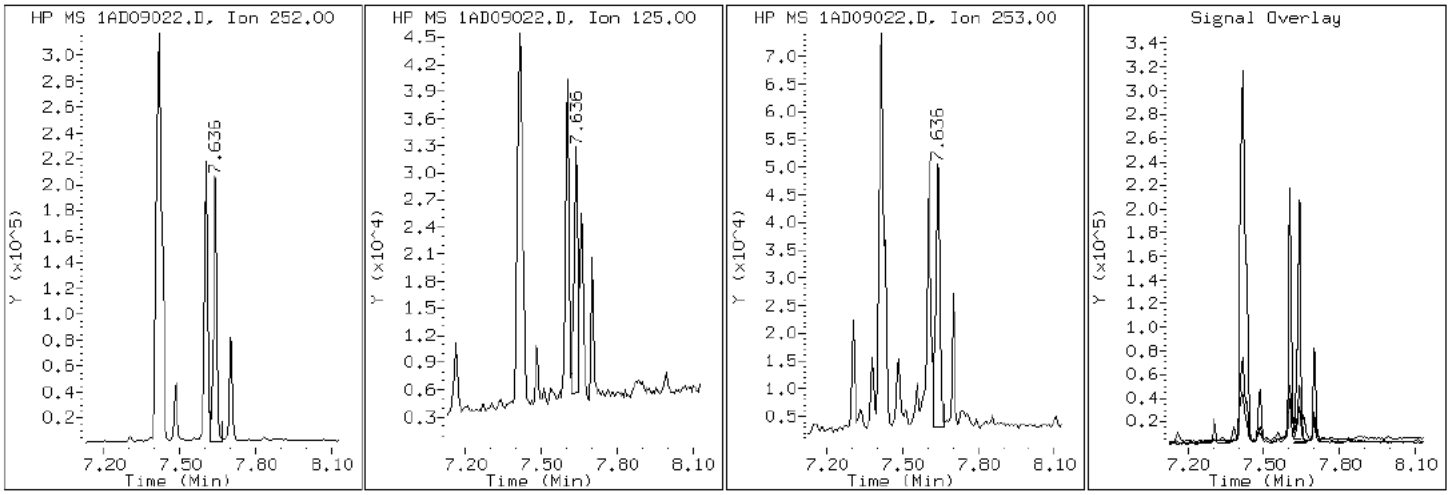
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

22 Benzo(a)pyrene



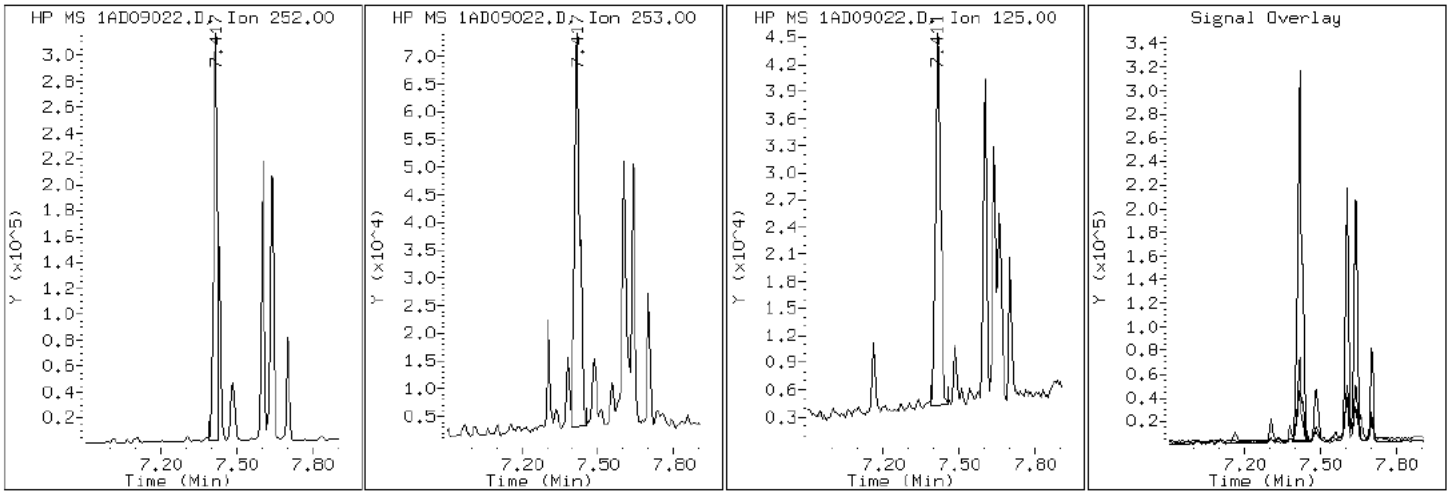
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

20 Benzo(b)fluoranthene



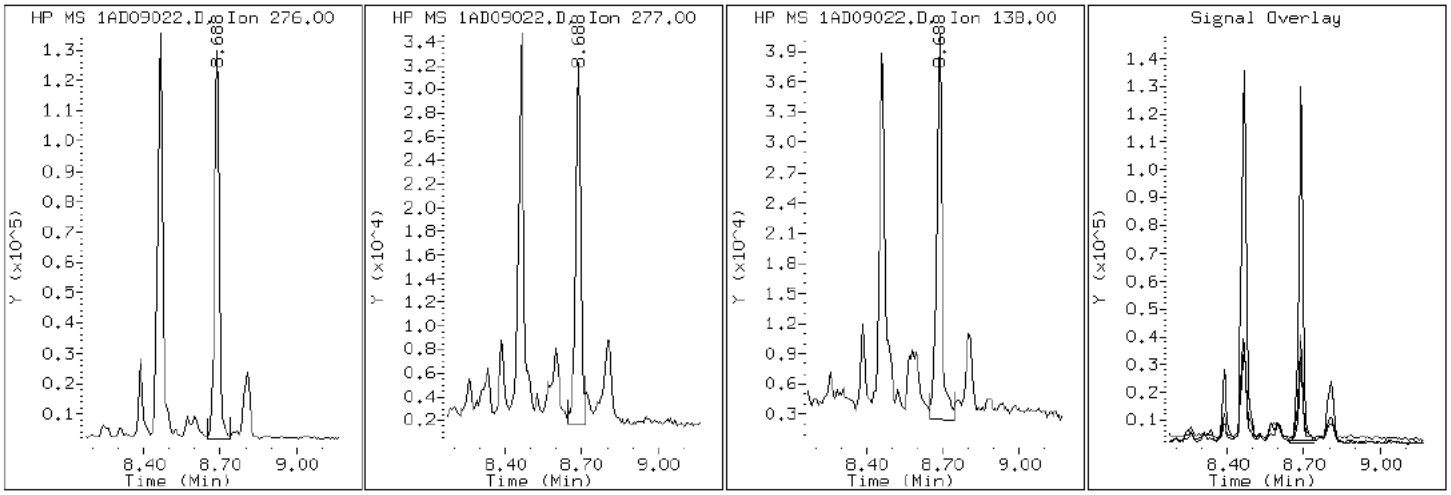
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

26 Benzo(g,h,i)perylene



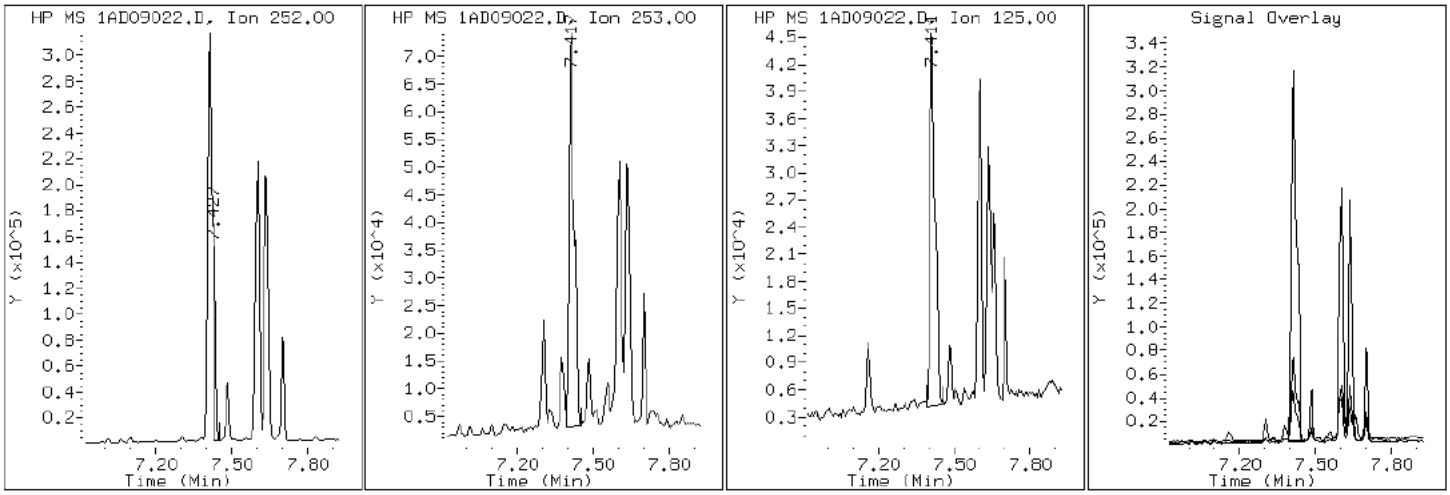
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

21 Benzo(k)fluoranthene



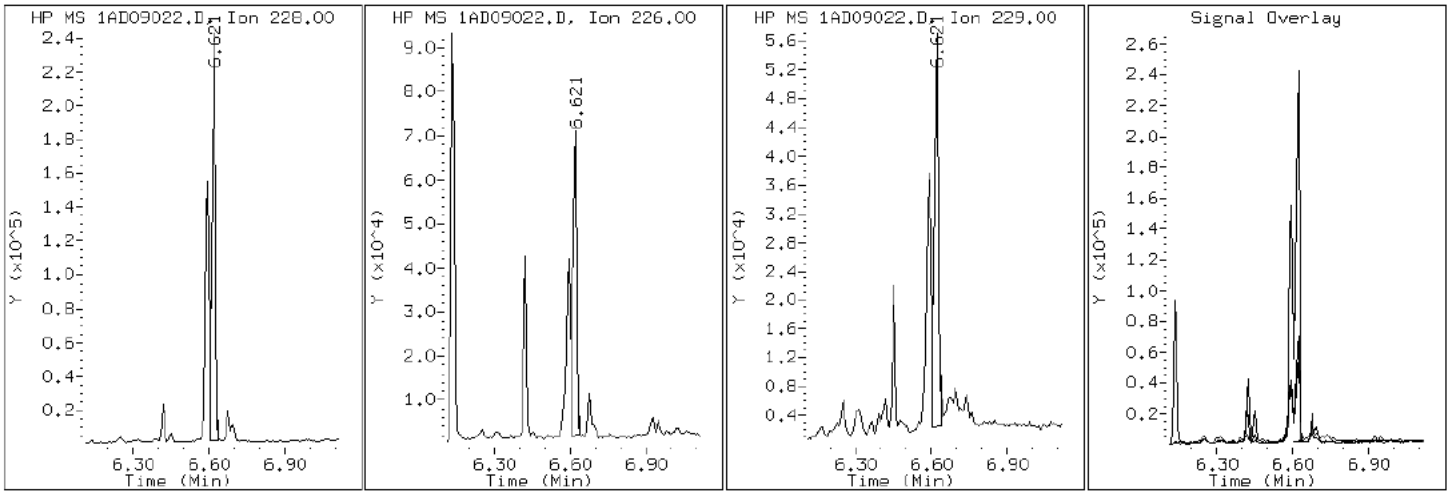
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

19 Chrysene



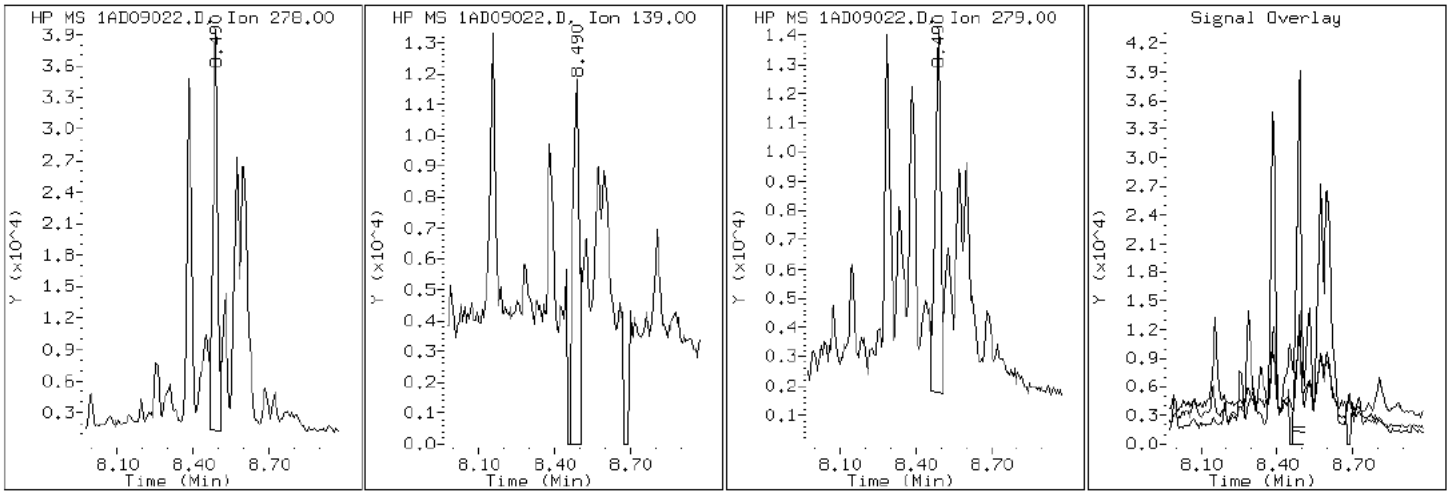
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

25 Dibenzo(a,h)anthracene



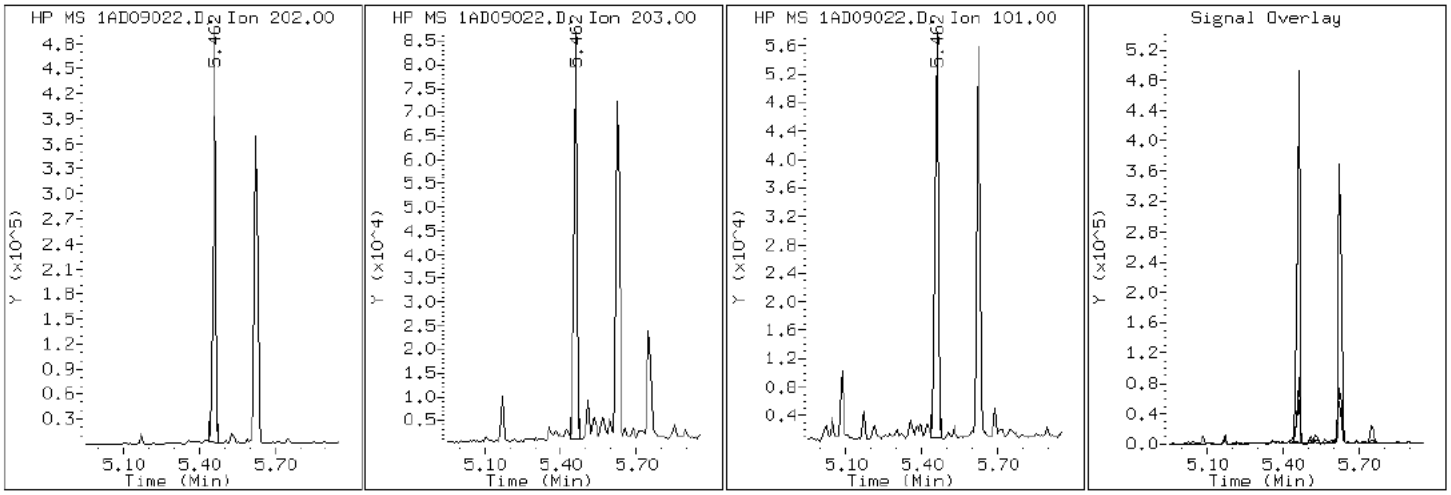
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

15 Fluoranthene



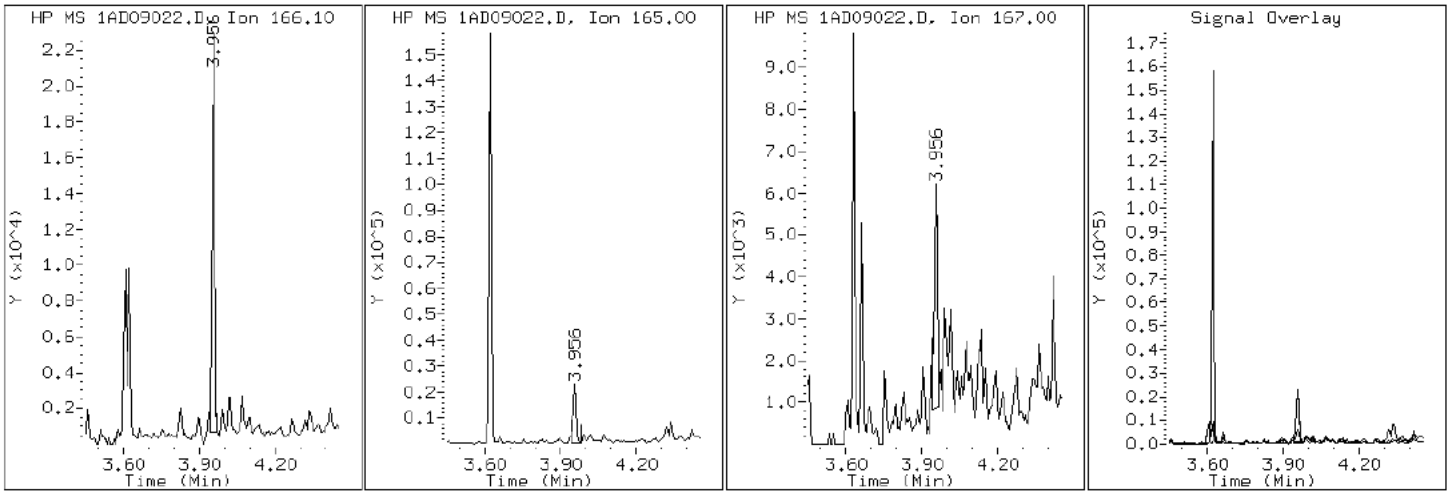
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

9 Fluorene



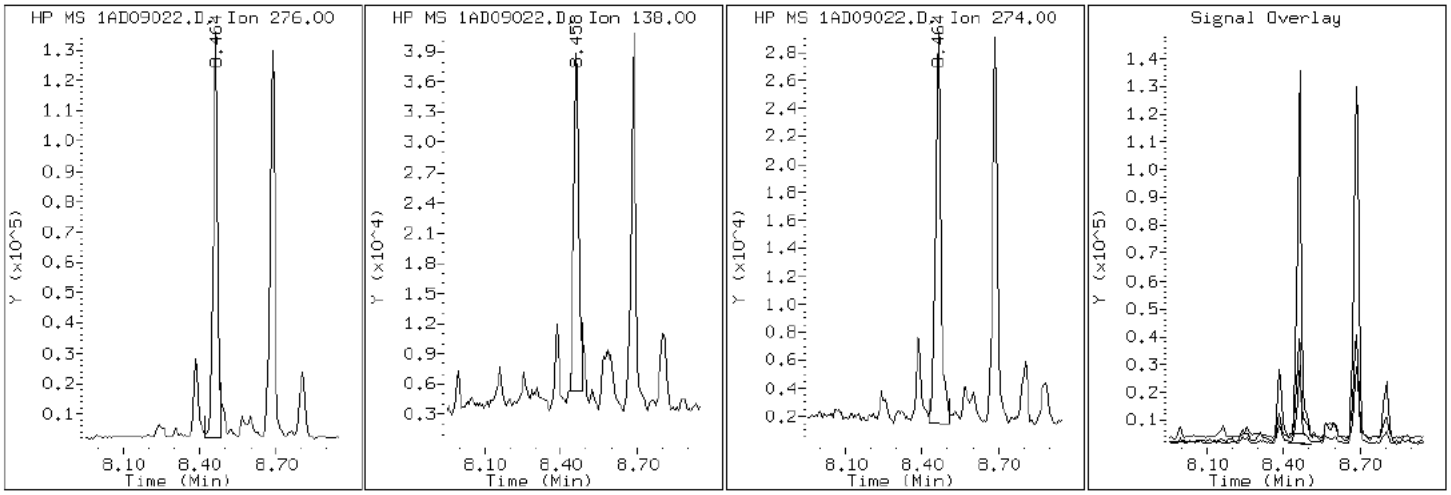
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

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



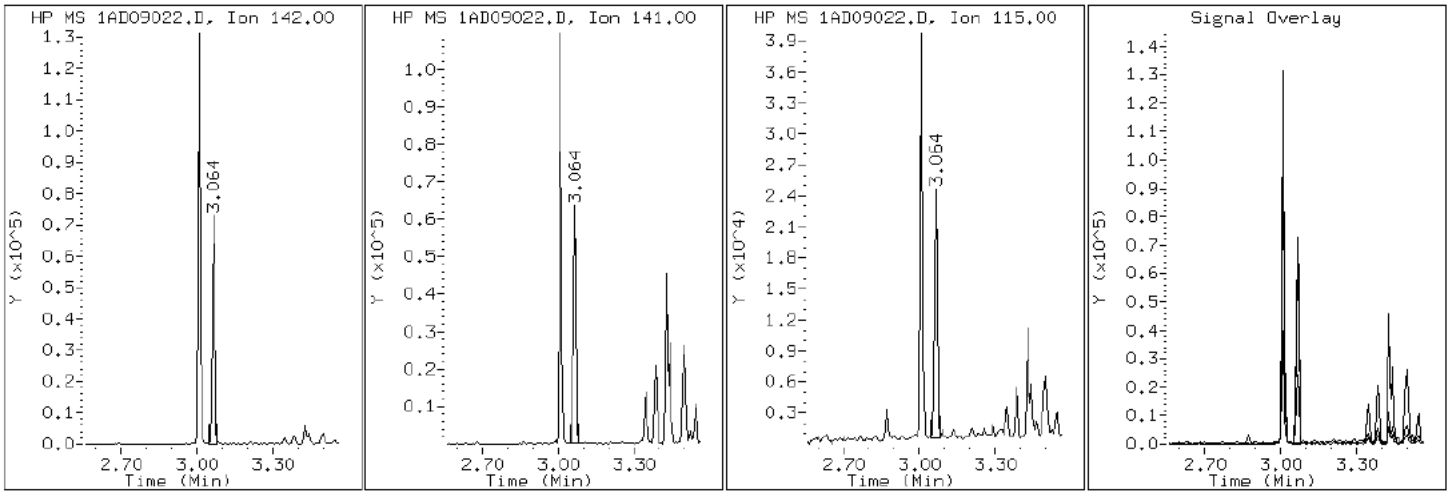
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

4 1-Methylnaphthalene



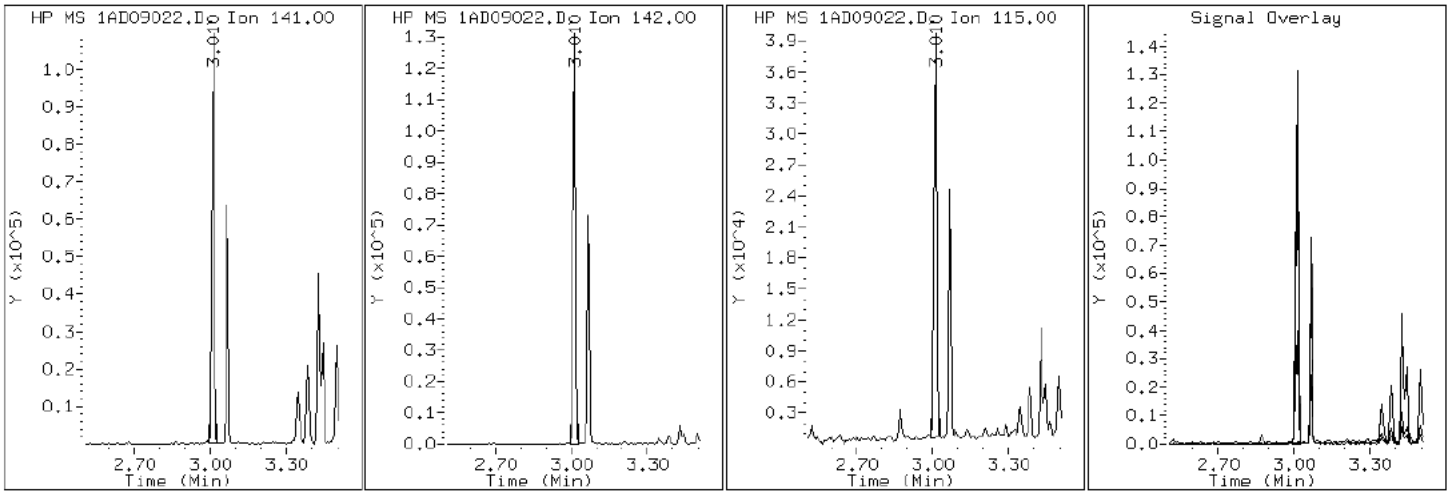
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

3 2-Methylnaphthalene



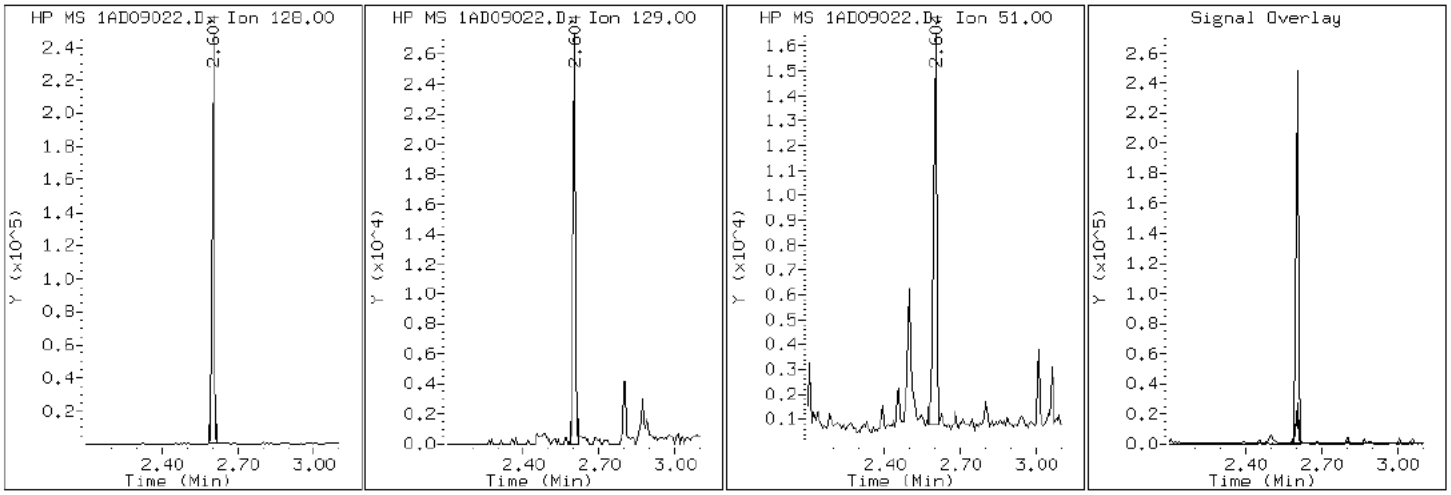
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

2 Naphthalene



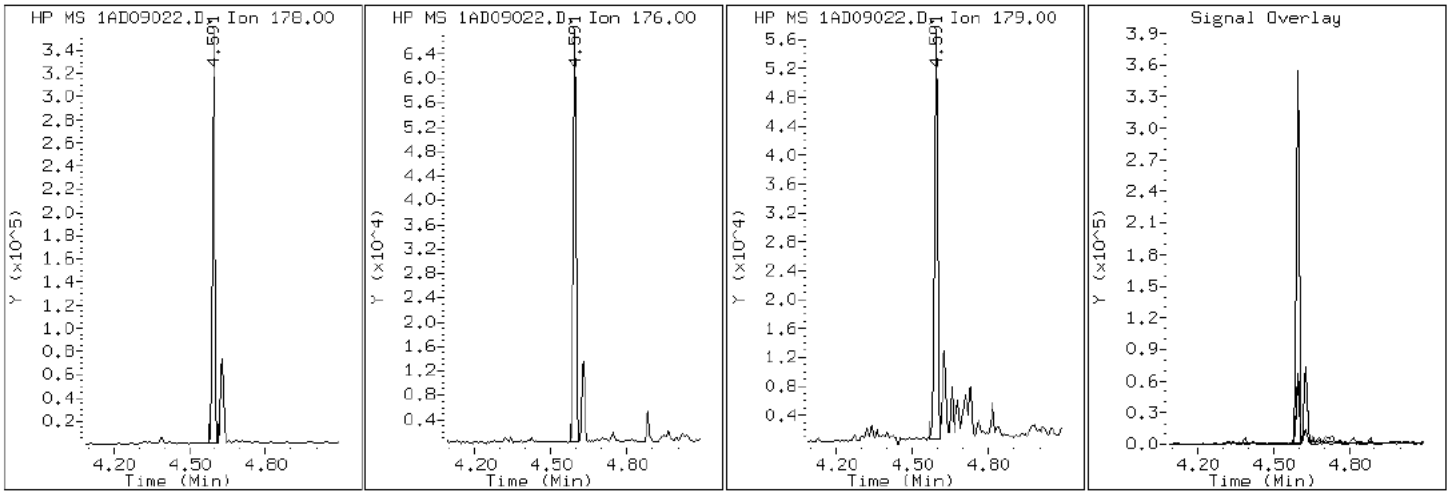
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

11 Phenanthrene



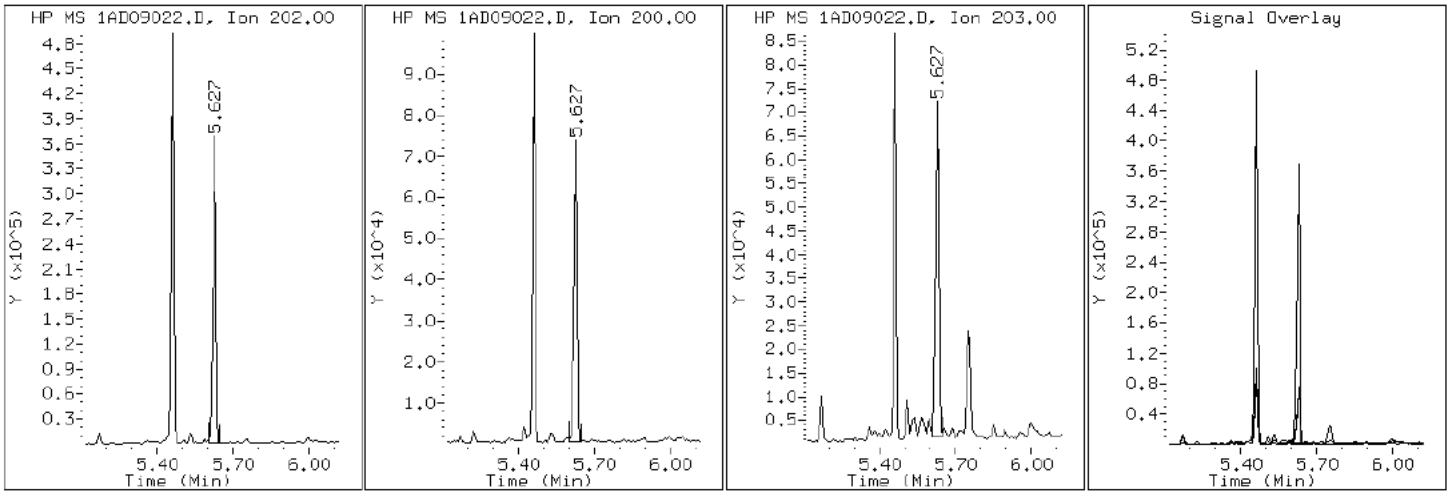
Data File: 1AD09022.D

Date: 09-APR-2013 18:33

Client ID: CV1131A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-63-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD09022.D
Inj. Date and Time: 09-APR-2013 18:33
Instrument ID: BSMA5973.i
Client ID: CV1131A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

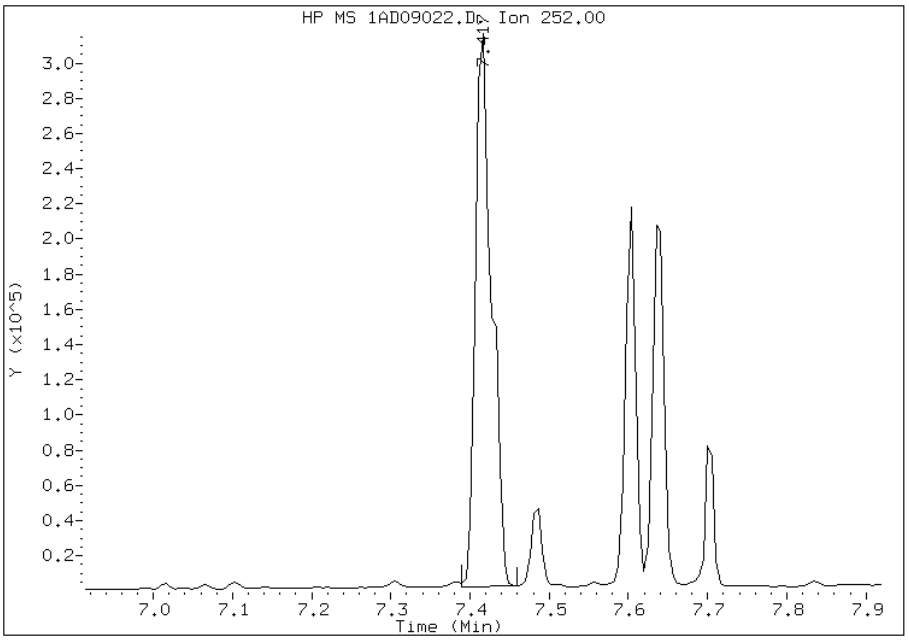
Processing Integration Results

RT: 7.42

Response: 441580

Amount: 10

Conc: 810



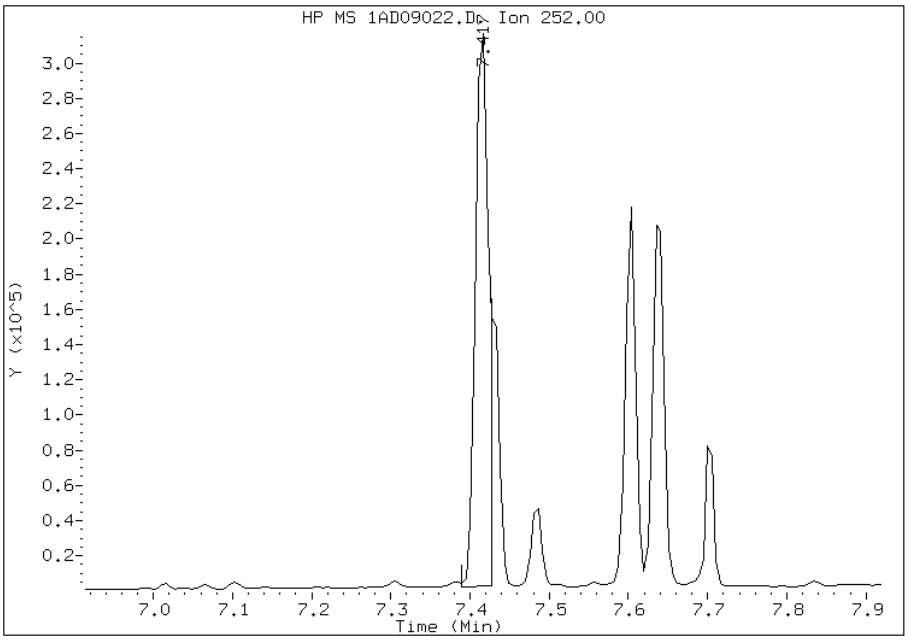
Manual Integration Results

RT: 7.42

Response: 367687

Amount: 8

Conc: 674



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 12:08
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD09022.D
Inj. Date and Time: 09-APR-2013 18:33
Instrument ID: BSMA5973.i
Client ID: CV1131A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

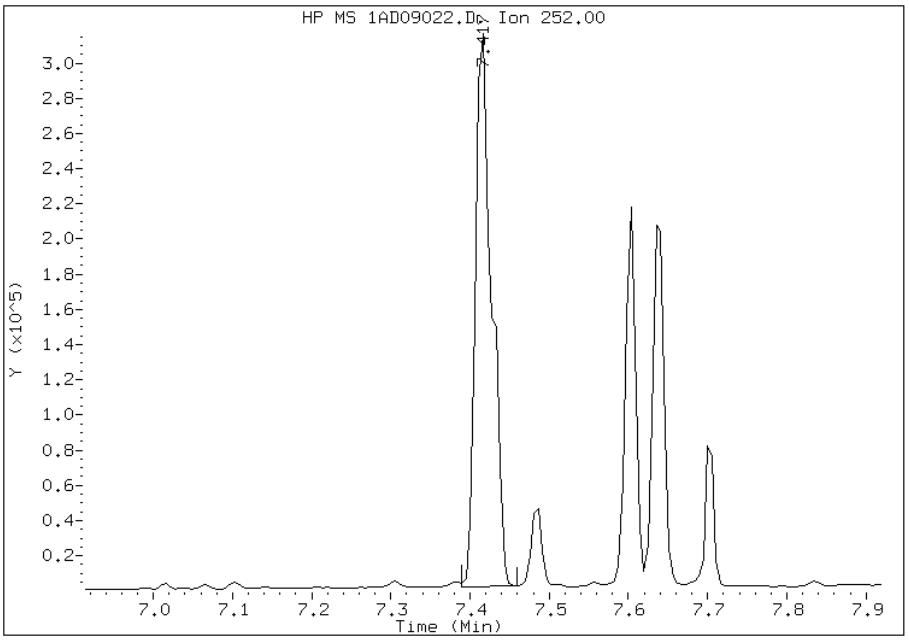
Processing Integration Results

RT: 7.42

Response: 441585

Amount: 9

Conc: 729



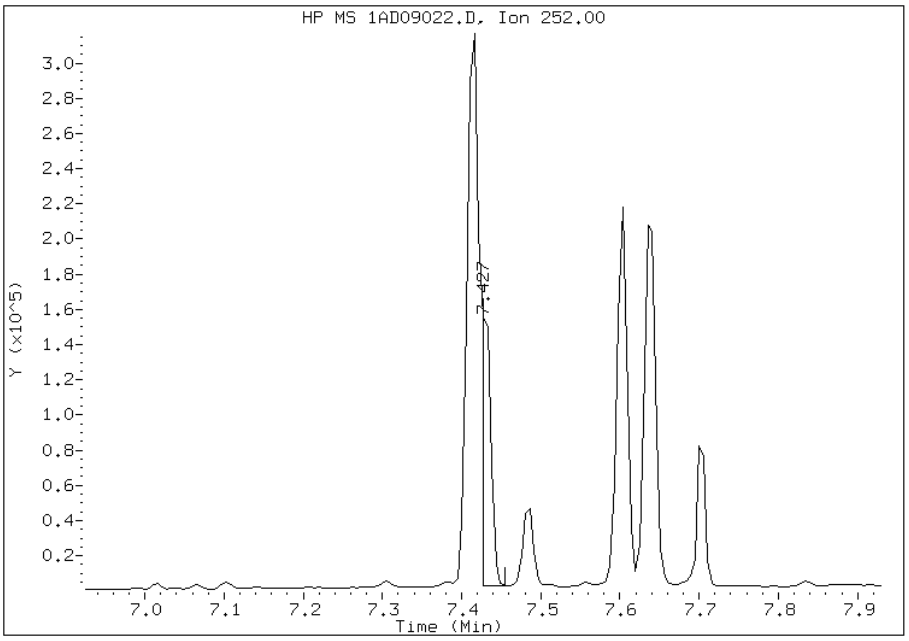
Manual Integration Results

RT: 7.43

Response: 122272

Amount: 3

Conc: 202



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 12:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD09022.D
Inj. Date and Time: 09-APR-2013 18:33
Instrument ID: BSMA5973.i
Client ID: CV1131A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

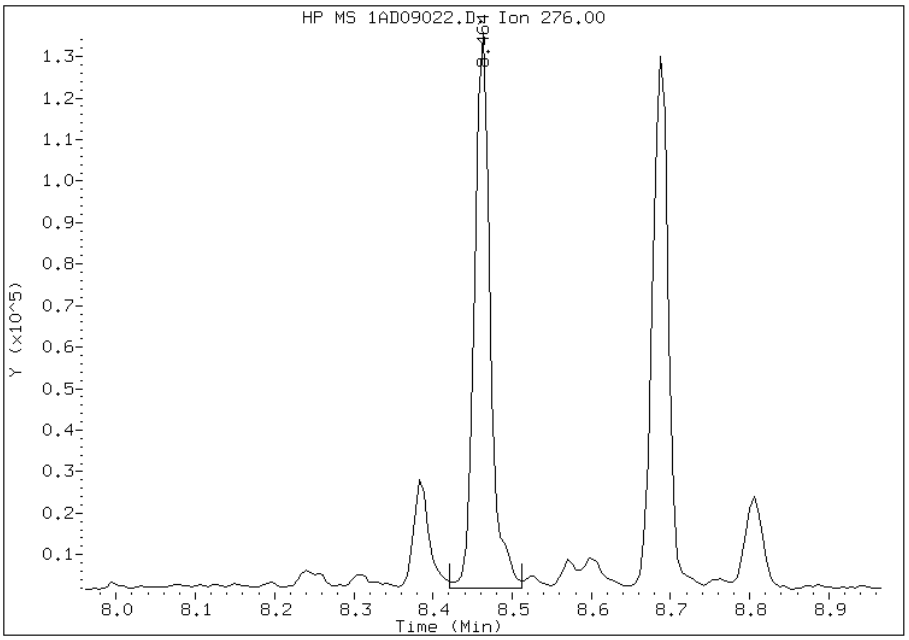
Processing Integration Results

RT: 8.46

Response: 184540

Amount: 5

Conc: 387



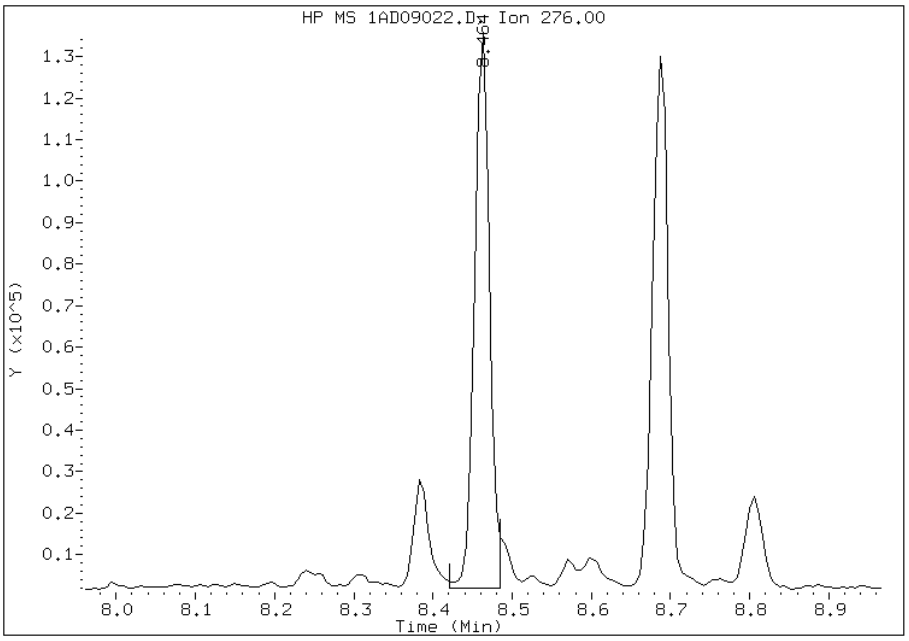
Manual Integration Results

RT: 8.46

Response: 175892

Amount: 5

Conc: 371



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 12:08
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1131B-CS | Lab Sample ID: 680-88811-64

Matrix: Solid | Lab File ID: 1AD09023.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 11:07

Extract. Method: 3546 | Date Extracted: 04/08/2013 09:32

Sample wt/vol: 15.20(g) | Date Analyzed: 04/09/2013 18:48

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

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

% Moisture: 32.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136269 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	580	U	580	120
208-96-8	Acenaphthylene	230	U	230	29
120-12-7	Anthracene	180		49	24
56-55-3	Benzo[a]anthracene	310		46	23
50-32-8	Benzo[a]pyrene	60	U	60	30
205-99-2	Benzo[b]fluoranthene	540		71	35
191-24-2	Benzo[g,h,i]perylene	290		120	26
207-08-9	Benzo[k]fluoranthene	160		46	21
218-01-9	Chrysene	390		52	26
53-70-3	Dibenz(a,h)anthracene	92	J	120	24
206-44-0	Fluoranthene	470		120	23
86-73-7	Fluorene	120	U	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	400		120	41
90-12-0	1-Methylnaphthalene	250		230	26
91-57-6	2-Methylnaphthalene	270		230	41
91-20-3	Naphthalene	270		230	26
85-01-8	Phenanthrene	460		46	23
129-00-0	Pyrene	470		120	21

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09023.D
Lab Smp Id: 680-88811-A-64-A Client Smp ID: CV1131B-CS
Inj Date : 09-APR-2013 18:48
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88811-a-64-a
Misc Info : 680-88811-A-64-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:20 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 23
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.200	Weight Extracted
M	32.029	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.596	2.591	(1.000)	1686031	40.0000	
*	6 Acenaphthene-d10	164	3.627	3.622	(1.000)	867118	40.0000	
*	10 Phenanthrene-d10	188	4.583	4.573	(1.000)	1438639	40.0000	
$	14 o-Terphenyl	230	4.882	4.877	(1.065)	47185	1.47562	571.3050
*	18 Chrysene-d12	240	6.602	6.597	(1.000)	1365632	40.0000	
*	23 Perylene-d12	264	7.692	7.676	(1.000)	1511321	40.0000	
	2 Naphthalene	128	2.607	2.602	(1.004)	29339	0.70666	273.5942
	3 2-Methylnaphthalene	141	3.013	3.008	(1.160)	20000	0.68911	266.7969
	4 1-Methylnaphthalene	142	3.066	3.062	(1.181)	18991	0.65427	253.3114
	11 Phenanthrene	178	4.594	4.589	(1.002)	60839	1.17695	455.6716
	12 Anthracene	178	4.626	4.626	(1.009)	10724	0.47588	184.2439
	13 Carbazole	167	4.759	4.755	(1.038)	9537	0.23558	91.2064
	15 Fluoranthene	202	5.464	5.454	(1.192)	75277	1.20223	465.4612
	16 Pyrene	202	5.625	5.620	(0.852)	64190	1.21979	472.2603

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
17 Benzo(a)anthracene	228	6.597	6.581	(0.999)	36547	0.80229	310.6180
19 Chrysene	228	6.618	6.613	(1.002)	46574	1.00247	388.1184
20 Benzo(b)fluoranthene	252	7.414	7.404	(0.964)	64279	1.40268	543.0665(M)
21 Benzo(k)fluoranthene	252	7.425	7.425	(0.965)	20968	0.41197	159.5009(QM)
24 Indeno(1,2,3-cd)pyrene	276	8.455	8.451	(1.099)	27621	1.03313	399.9902(M)
25 Dibenzo(a,h)anthracene	278	8.482	8.477	(1.103)	9103	0.23825	92.2403
26 Benzo(g,h,i)perylene	276	8.674	8.670	(1.128)	31249	0.75915	293.9161

QC Flag Legend

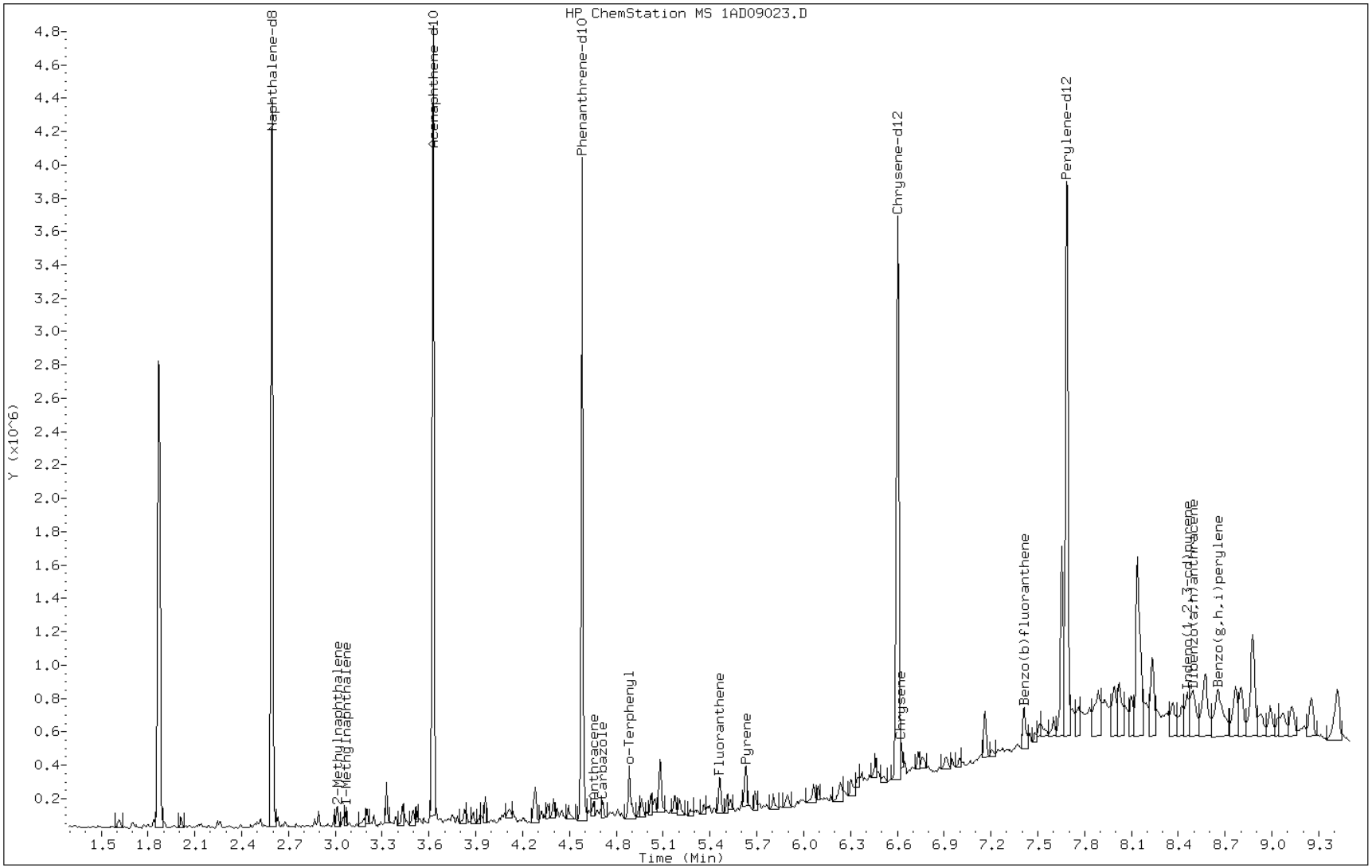
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AD09023.D

Date: 09-APR-2013 18:48

Client ID: CV1131B-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-64-a Operator: SCC



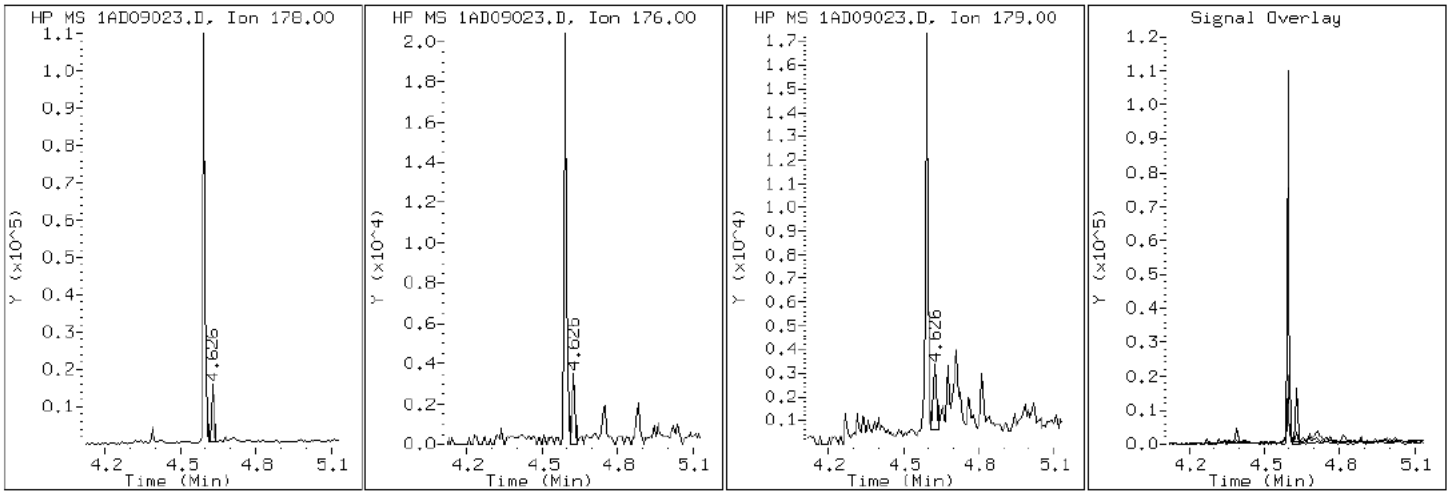
Data File: 1AD09023.D

Date: 09-APR-2013 18:48

Client ID: CV1131B-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-64-a Operator: SCC

12 Anthracene



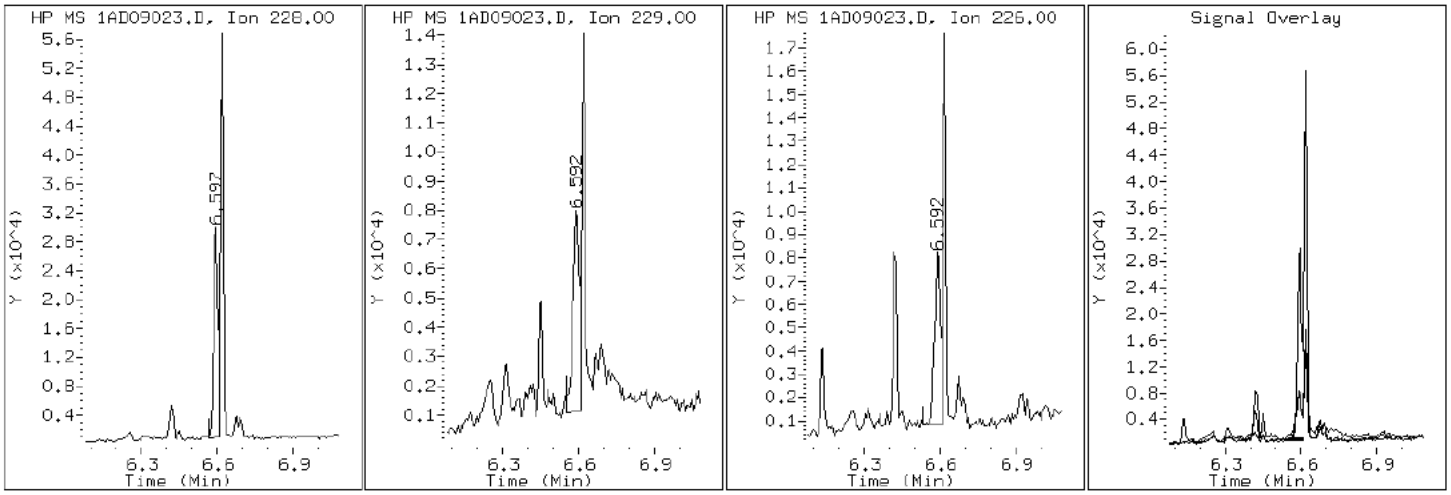
Data File: 1AD09023.D

Date: 09-APR-2013 18:48

Client ID: CV1131B-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-64-a Operator: SCC

17 Benzo(a)anthracene



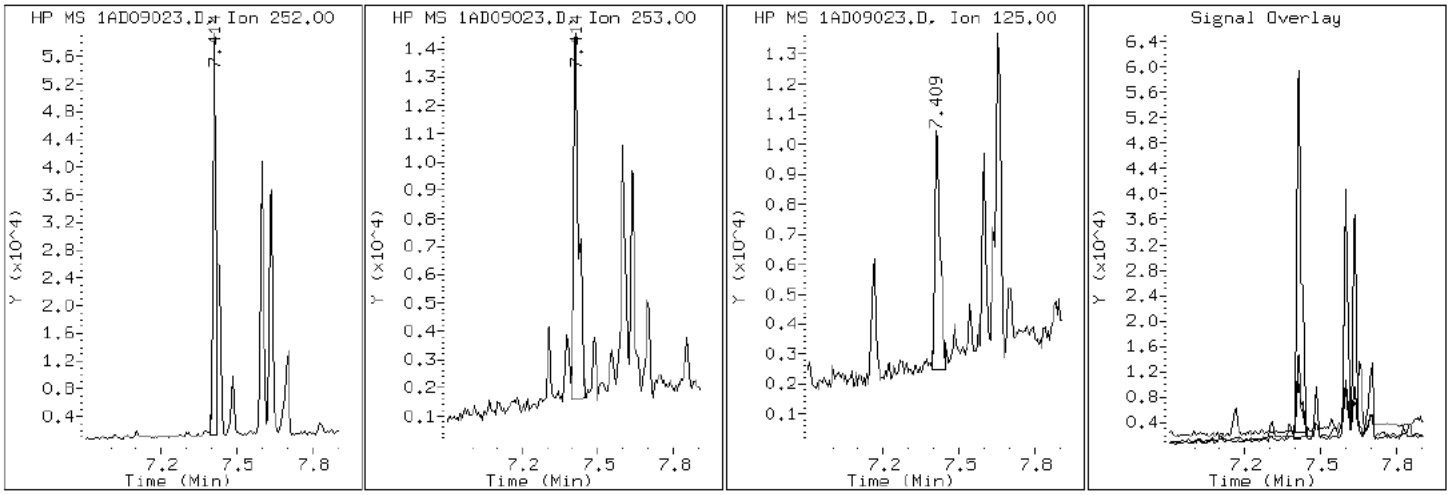
Data File: 1AD09023.D

Date: 09-APR-2013 18:48

Client ID: CV1131B-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-64-a Operator: SCC

20 Benzo(b)fluoranthene



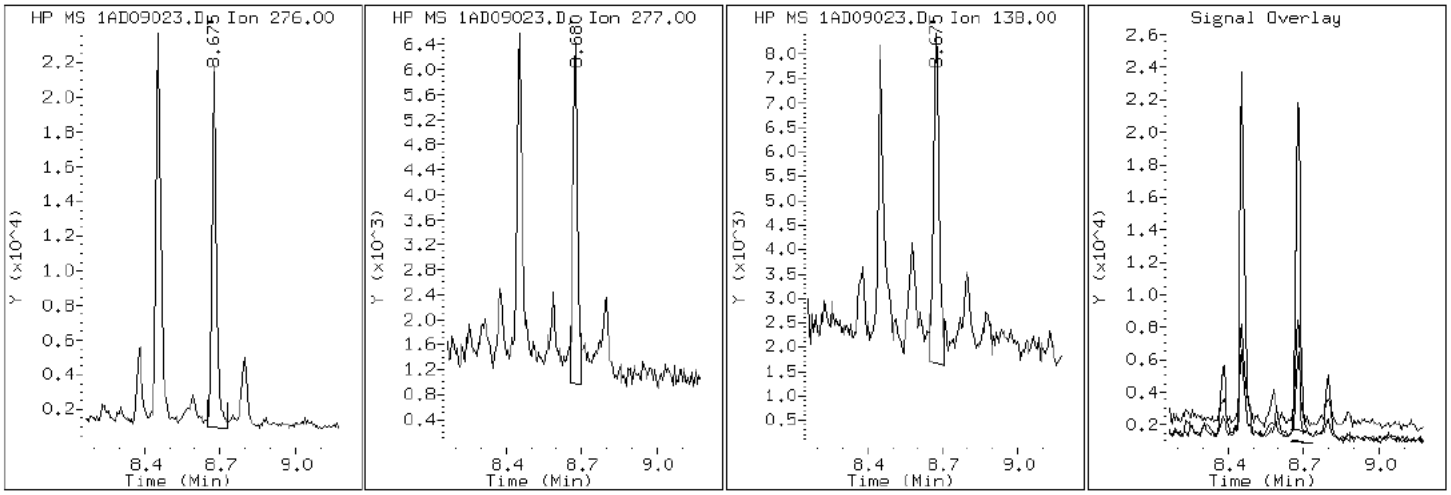
Data File: 1AD09023.D

Date: 09-APR-2013 18:48

Client ID: CV1131B-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-64-a Operator: SCC

26 Benzo(g,h,i)perylene



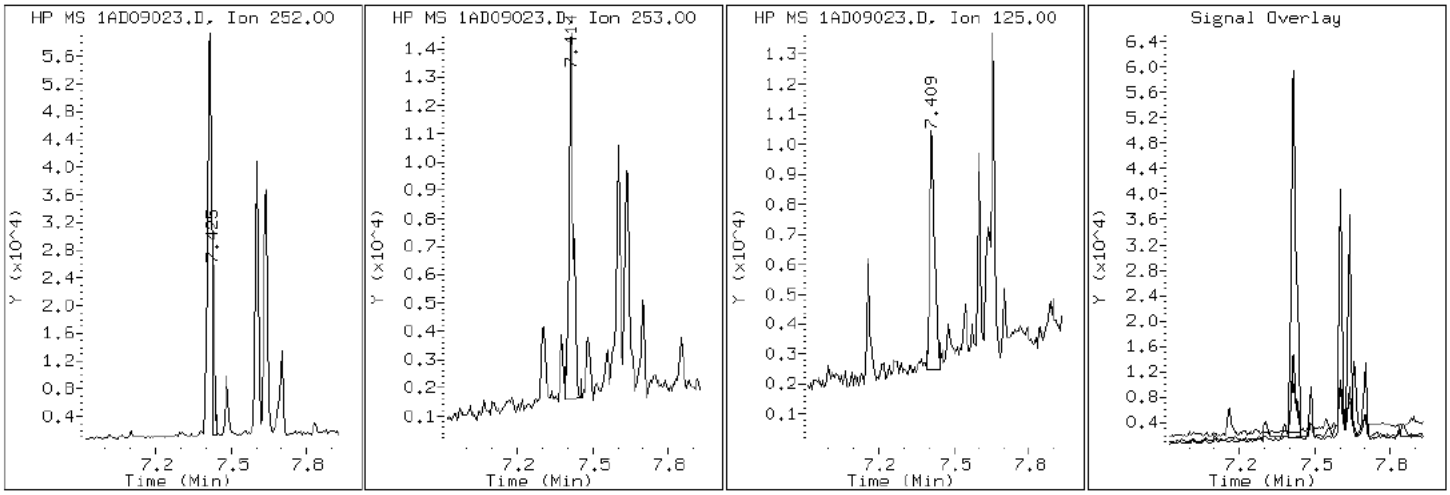
Data File: 1AD09023.D

Date: 09-APR-2013 18:48

Client ID: CV1131B-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-64-a Operator: SCC

21 Benzo(k)fluoranthene



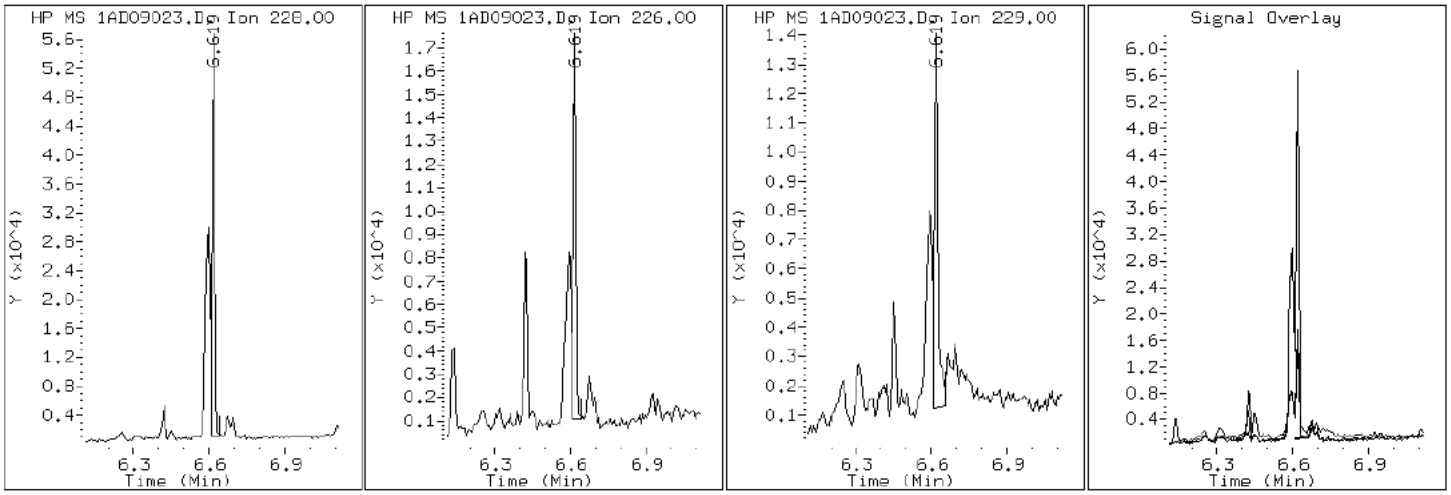
Data File: 1AD09023.D

Date: 09-APR-2013 18:48

Client ID: CV1131B-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-64-a Operator: SCC

19 Chrysene



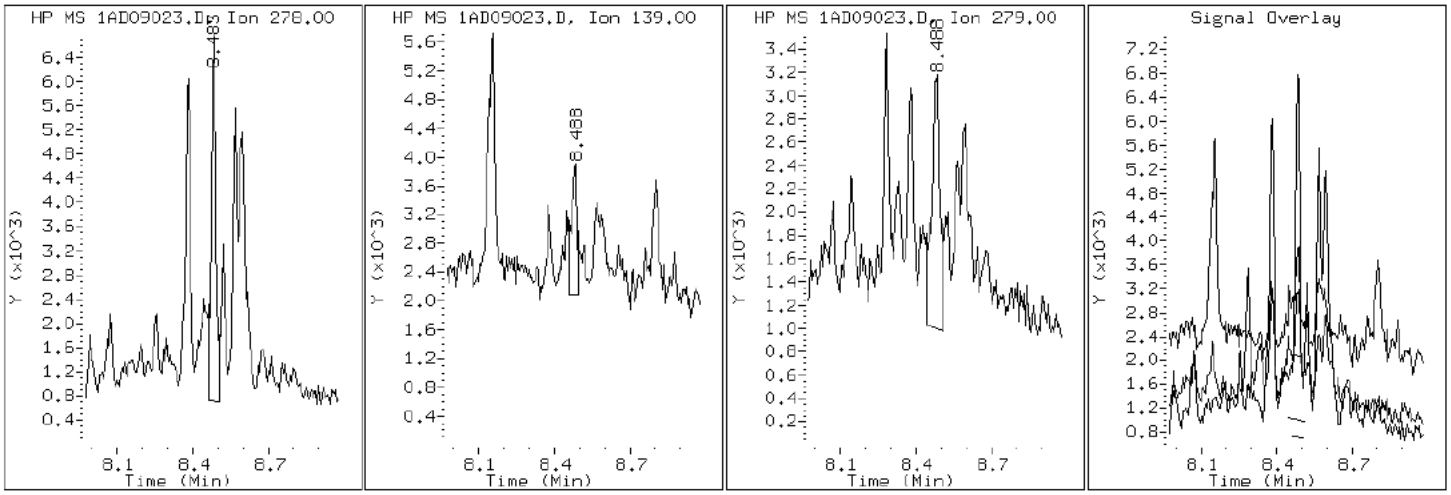
Data File: 1AD09023.D

Date: 09-APR-2013 18:48

Client ID: CV1131B-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-64-a Operator: SCC

25 Dibenzo(a,h)anthracene



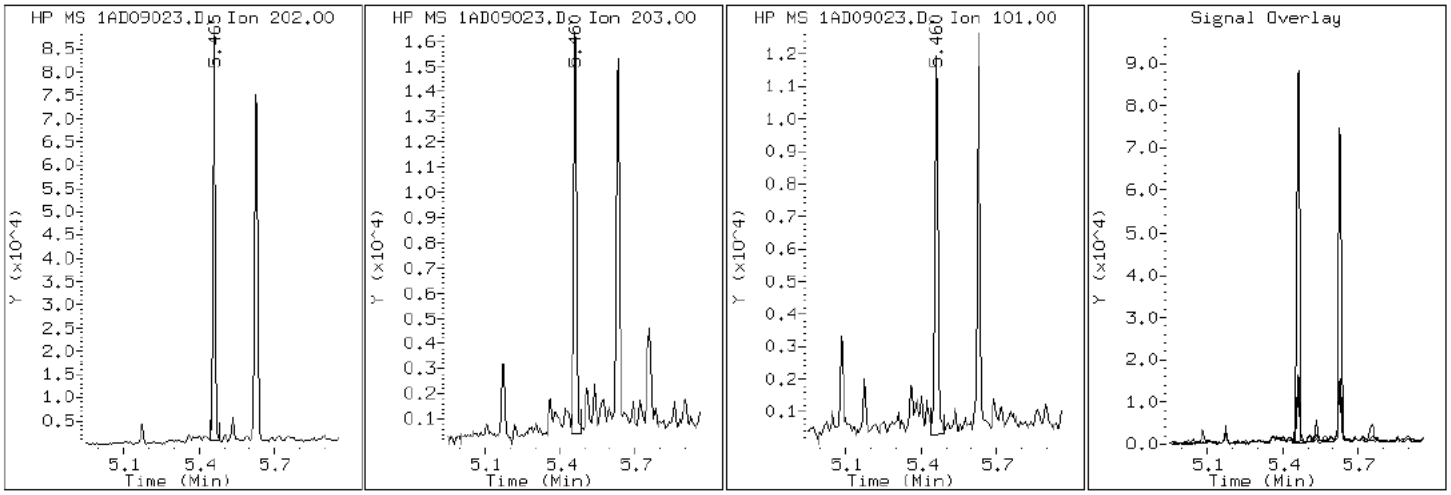
Data File: 1AD09023.D

Date: 09-APR-2013 18:48

Client ID: CV1131B-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-64-a Operator: SCC

15 Fluoranthene



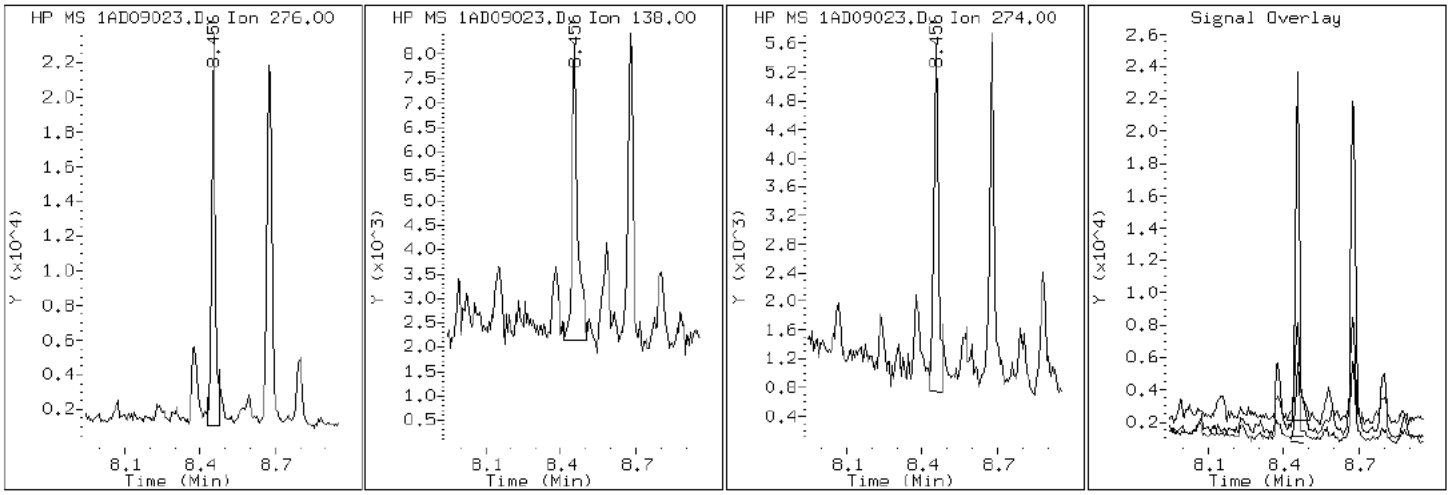
Data File: 1AD09023.D

Date: 09-APR-2013 18:48

Client ID: CV1131B-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-64-a Operator: SCC

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



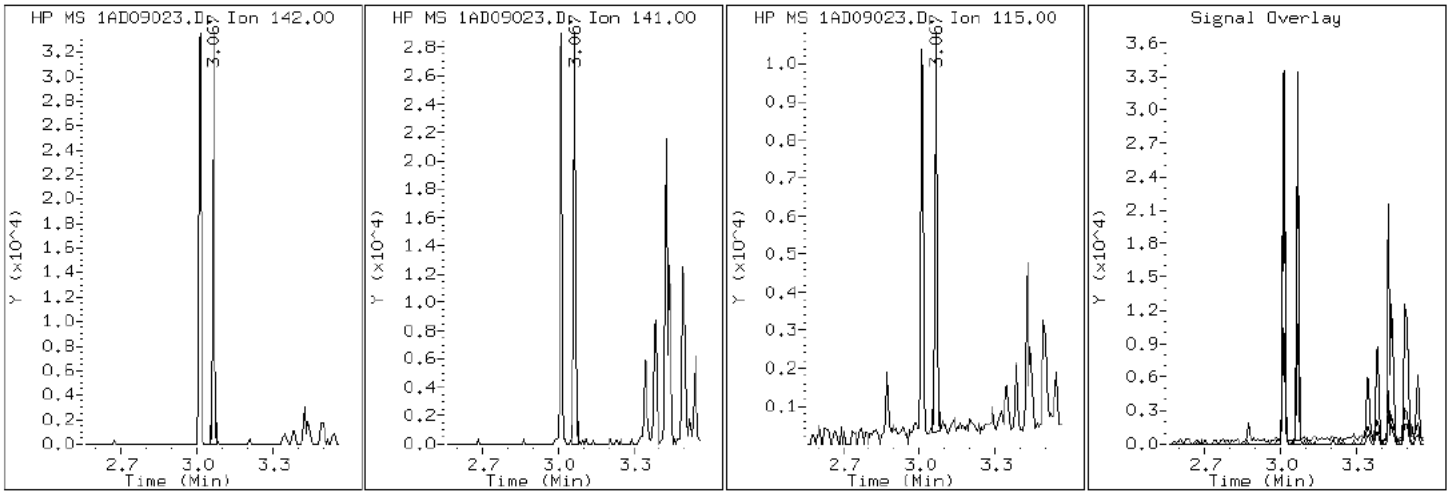
Data File: 1AD09023.D

Date: 09-APR-2013 18:48

Client ID: CV1131B-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-64-a Operator: SCC

4 1-Methylnaphthalene



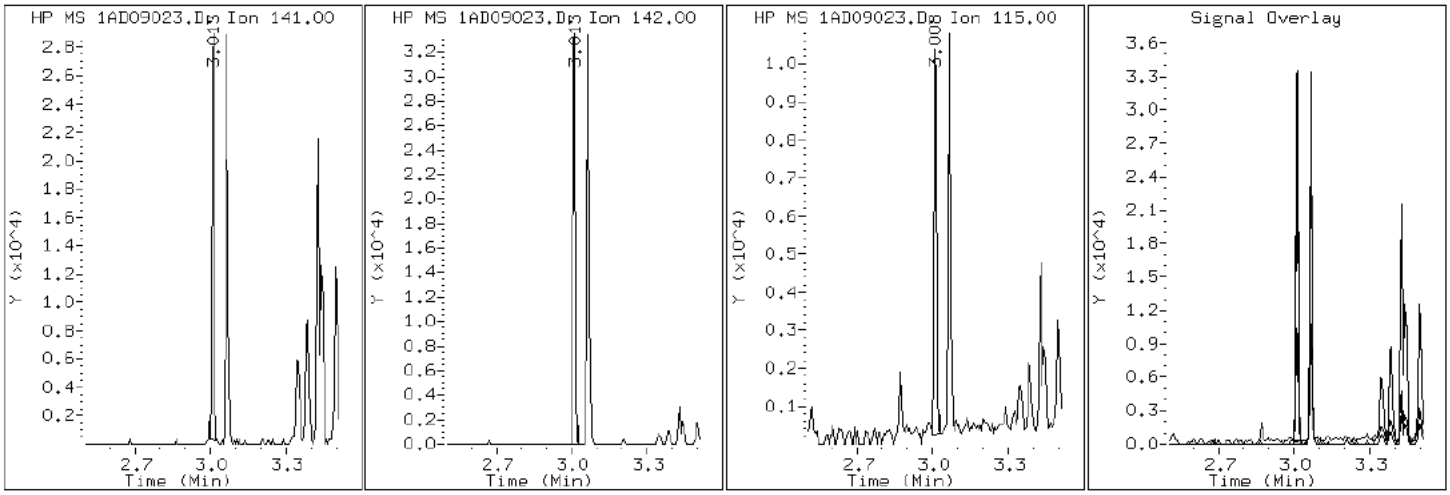
Data File: 1AD09023.D

Date: 09-APR-2013 18:48

Client ID: CV1131B-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-64-a Operator: SCC

3 2-Methylnaphthalene



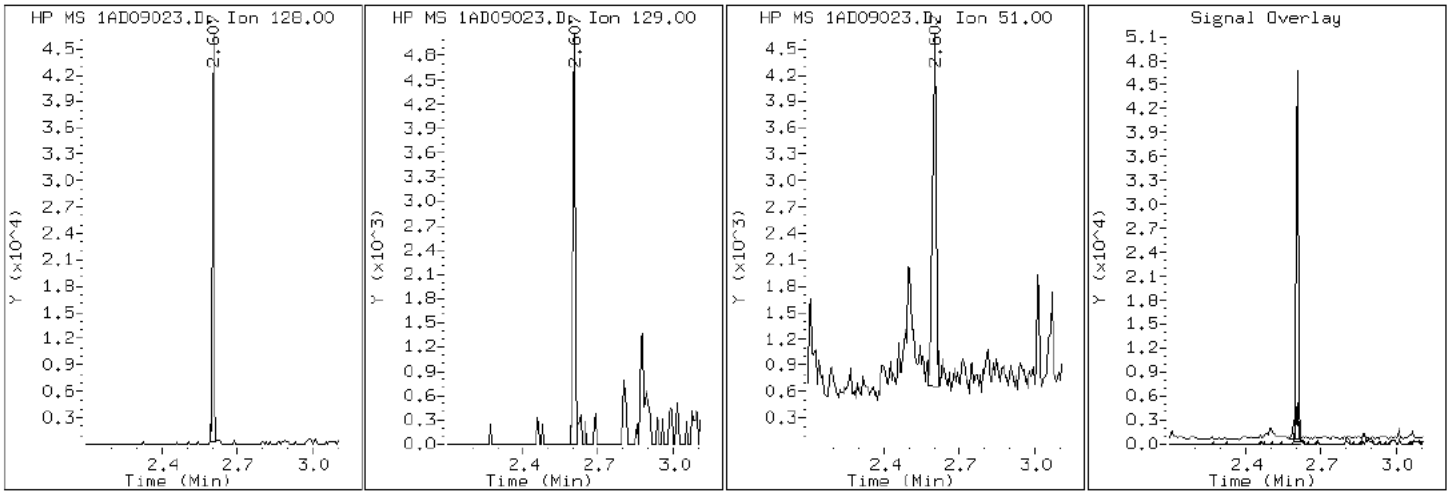
Data File: 1AD09023.D

Date: 09-APR-2013 18:48

Client ID: CV1131B-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-64-a Operator: SCC

2 Naphthalene



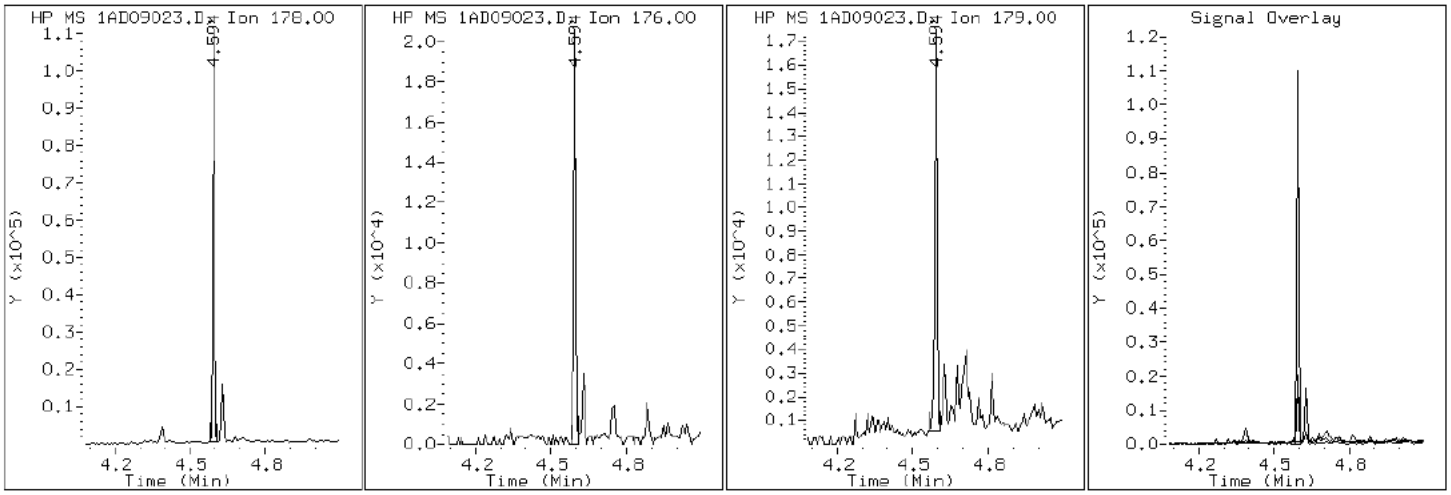
Data File: 1AD09023.D

Date: 09-APR-2013 18:48

Client ID: CV1131B-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-64-a Operator: SCC

11 Phenanthrene



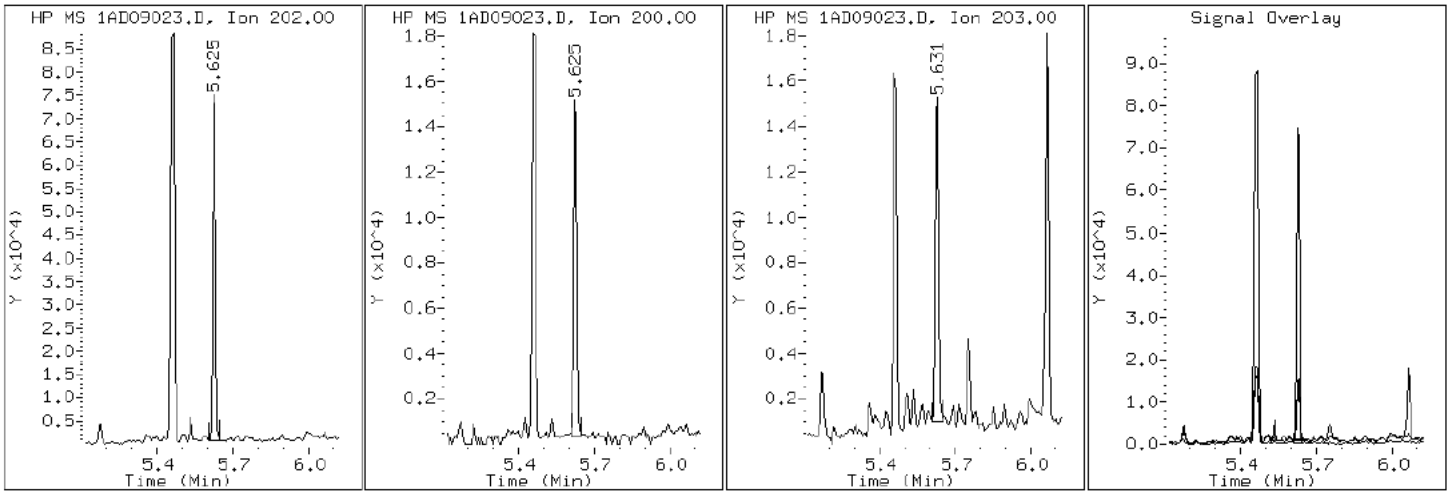
Data File: 1AD09023.D

Date: 09-APR-2013 18:48

Client ID: CV1131B-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-64-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD09023.D
Inj. Date and Time: 09-APR-2013 18:48
Instrument ID: BSMA5973.i
Client ID: CV1131B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

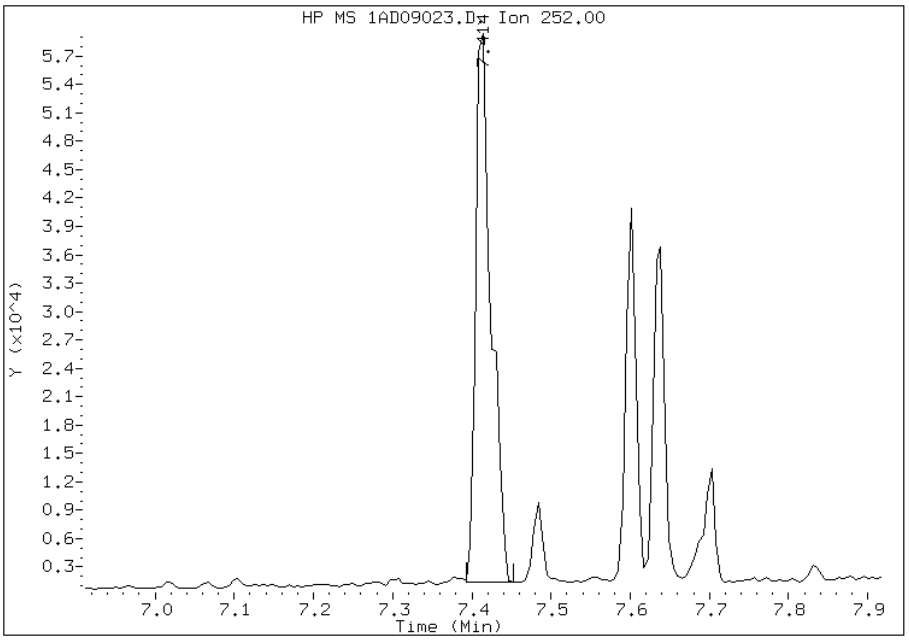
Processing Integration Results

RT: 7.41

Response: 77500

Amount: 2

Conc: 655



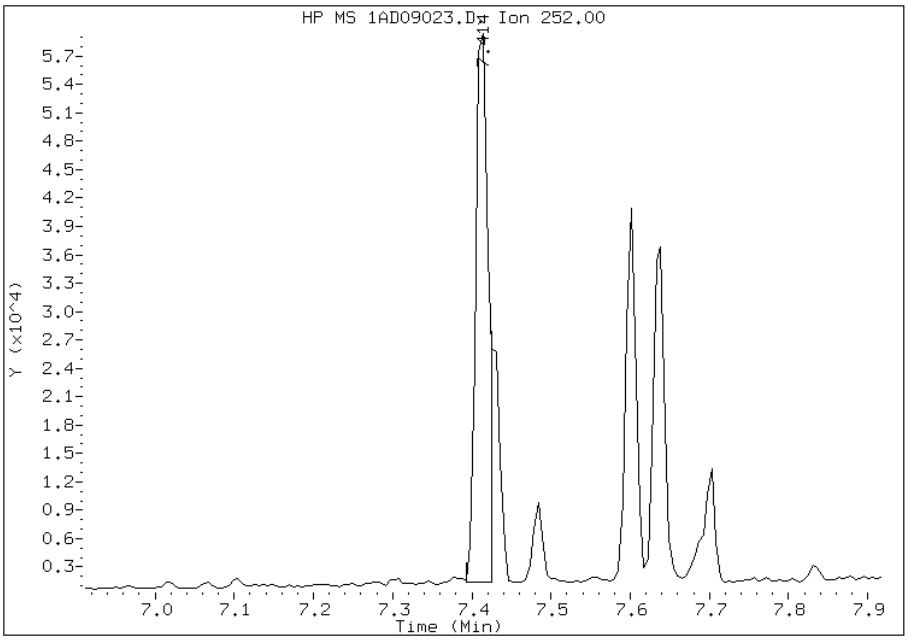
Manual Integration Results

RT: 7.41

Response: 64279

Amount: 1

Conc: 543



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 12:09
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD09023.D
Inj. Date and Time: 09-APR-2013 18:48
Instrument ID: BSMA5973.i
Client ID: CV1131B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

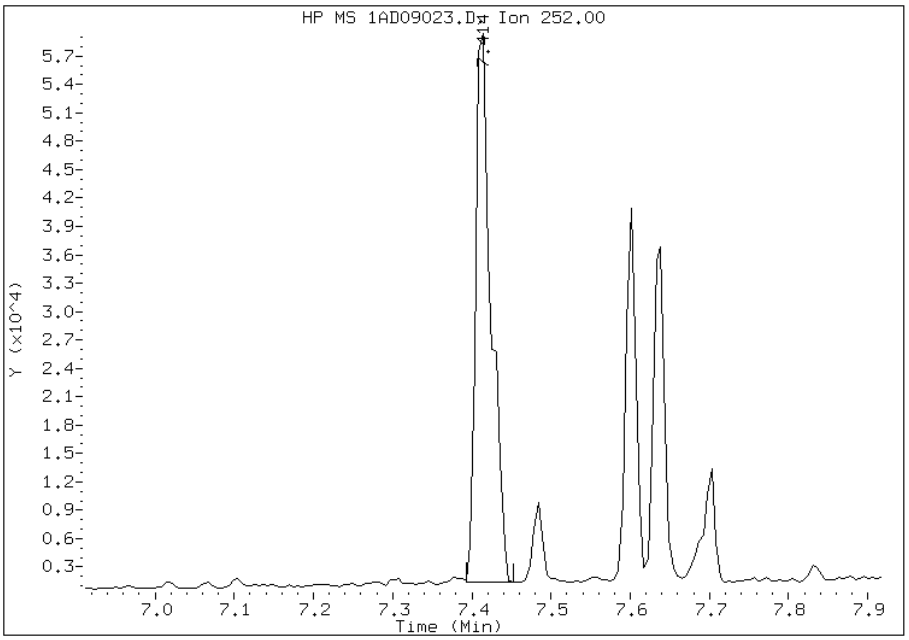
Processing Integration Results

RT: 7.41

Response: 77500

Amount: 2

Conc: 590



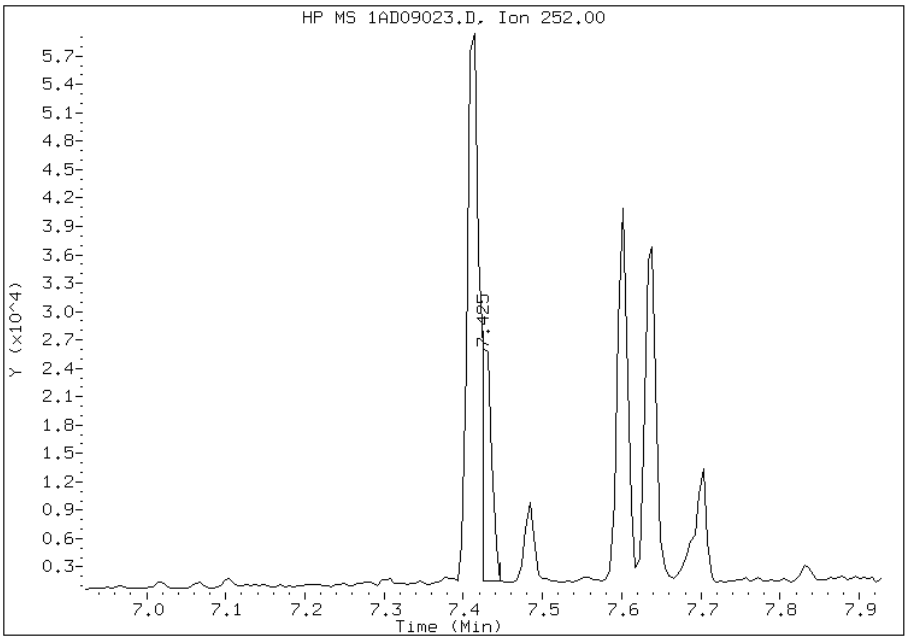
Manual Integration Results

RT: 7.43

Response: 20968

Amount: 0

Conc: 160



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 12:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD09023.D
Inj. Date and Time: 09-APR-2013 18:48
Instrument ID: BSMA5973.i
Client ID: CV1131B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

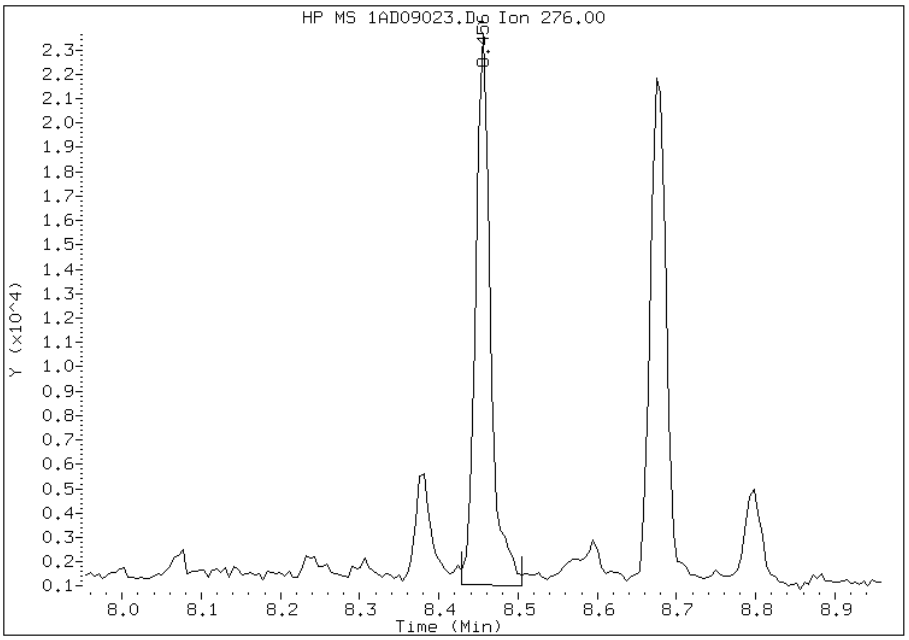
Processing Integration Results

RT: 8.46

Response: 29407

Amount: 1

Conc: 416



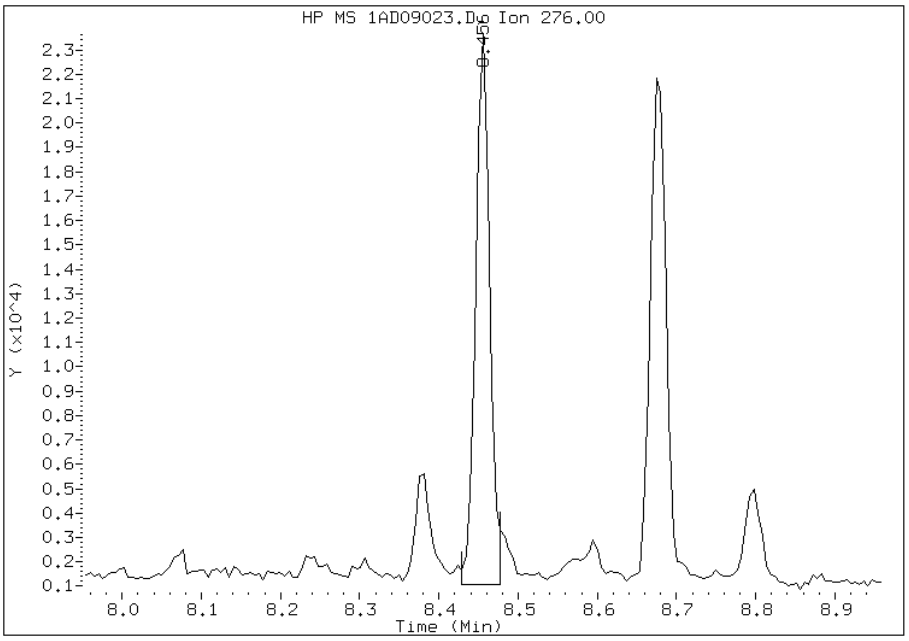
Manual Integration Results

RT: 8.46

Response: 27621

Amount: 1

Conc: 400



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 12:11
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1131C-CS | Lab Sample ID: 680-88811-65

Matrix: Solid | Lab File ID: 1AD09024.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 11:15

Extract. Method: 3546 | Date Extracted: 04/08/2013 09:32

Sample wt/vol: 15.00(g) | Date Analyzed: 04/09/2013 19:03

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

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

% Moisture: 20.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136269 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	200	U	200	25
120-12-7	Anthracene	230		42	21
56-55-3	Benzo[a]anthracene	510		40	20
50-32-8	Benzo[a]pyrene	210		52	26
205-99-2	Benzo[b]fluoranthene	800		61	31
191-24-2	Benzo[g,h,i]perylene	440		100	22
207-08-9	Benzo[k]fluoranthene	260		40	18
218-01-9	Chrysene	580		45	23
53-70-3	Dibenz(a,h)anthracene	140		100	21
206-44-0	Fluoranthene	760		100	20
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	510		100	36
90-12-0	1-Methylnaphthalene	230		200	22
91-57-6	2-Methylnaphthalene	250		200	36
91-20-3	Naphthalene	250		200	22
85-01-8	Phenanthrene	600		40	20
129-00-0	Pyrene	790		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09024.D
Lab Smp Id: 680-88811-A-65-A Client Smp ID: CV1131C-CS
Inj Date : 09-APR-2013 19:03
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88811-a-65-a
Misc Info : 680-88811-A-65-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:20 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 24
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	15.000	Weight Extracted
M	20.313	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.597	2.591	(1.000)	1679507	40.0000	
*	6 Acenaphthene-d10	164	3.627	3.622	(1.000)	873817	40.0000	
*	10 Phenanthrene-d10	188	4.583	4.573	(1.000)	1427818	40.0000	
$	14 o-Terphenyl	230	4.883	4.877	(1.065)	52508	1.64705	551.1697
*	18 Chrysene-d12	240	6.602	6.597	(1.000)	1316176	40.0000	
*	23 Perylene-d12	264	7.692	7.676	(1.000)	1527749	40.0000	
	2 Naphthalene	128	2.607	2.602	(1.004)	31448	0.73669	246.5274
	3 2-Methylnaphthalene	141	3.013	3.008	(1.160)	22247	0.74613	249.6840
	4 1-Methylnaphthalene	142	3.067	3.062	(1.181)	19897	0.67352	225.3854
	11 Phenanthrene	178	4.594	4.589	(1.002)	100035	1.79472	600.5866
	12 Anthracene	178	4.626	4.626	(1.009)	26781	0.69118	231.2982
	13 Carbazole	167	4.760	4.755	(1.038)	17268	0.37427	125.2442
	15 Fluoranthene	202	5.459	5.454	(1.191)	141851	2.26737	758.7542
	16 Pyrene	202	5.630	5.620	(0.853)	120420	2.37431	794.5405

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	6.597	6.581	(0.999)	66418	1.51281	506.2489
19 Chrysene	228	6.618	6.613	(1.002)	78164	1.74563	584.1587
20 Benzo(b)fluoranthene	252	7.414	7.404	(0.964)	111029	2.39679	802.0634(M)
21 Benzo(k)fluoranthene	252	7.425	7.425	(0.965)	40344	0.78414	262.4059(QM)
22 Benzo(a)pyrene	252	7.639	7.628	(0.993)	65915	0.61501	205.8069
24 Indeno(1,2,3-cd)pyrene	276	8.461	8.451	(1.100)	49077	1.51271	506.2153(M)
25 Dibenzo(a,h)anthracene	278	8.482	8.477	(1.103)	15602	0.40395	135.1776
26 Benzo(g,h,i)perylene	276	8.680	8.670	(1.128)	54590	1.31193	439.0245

QC Flag Legend

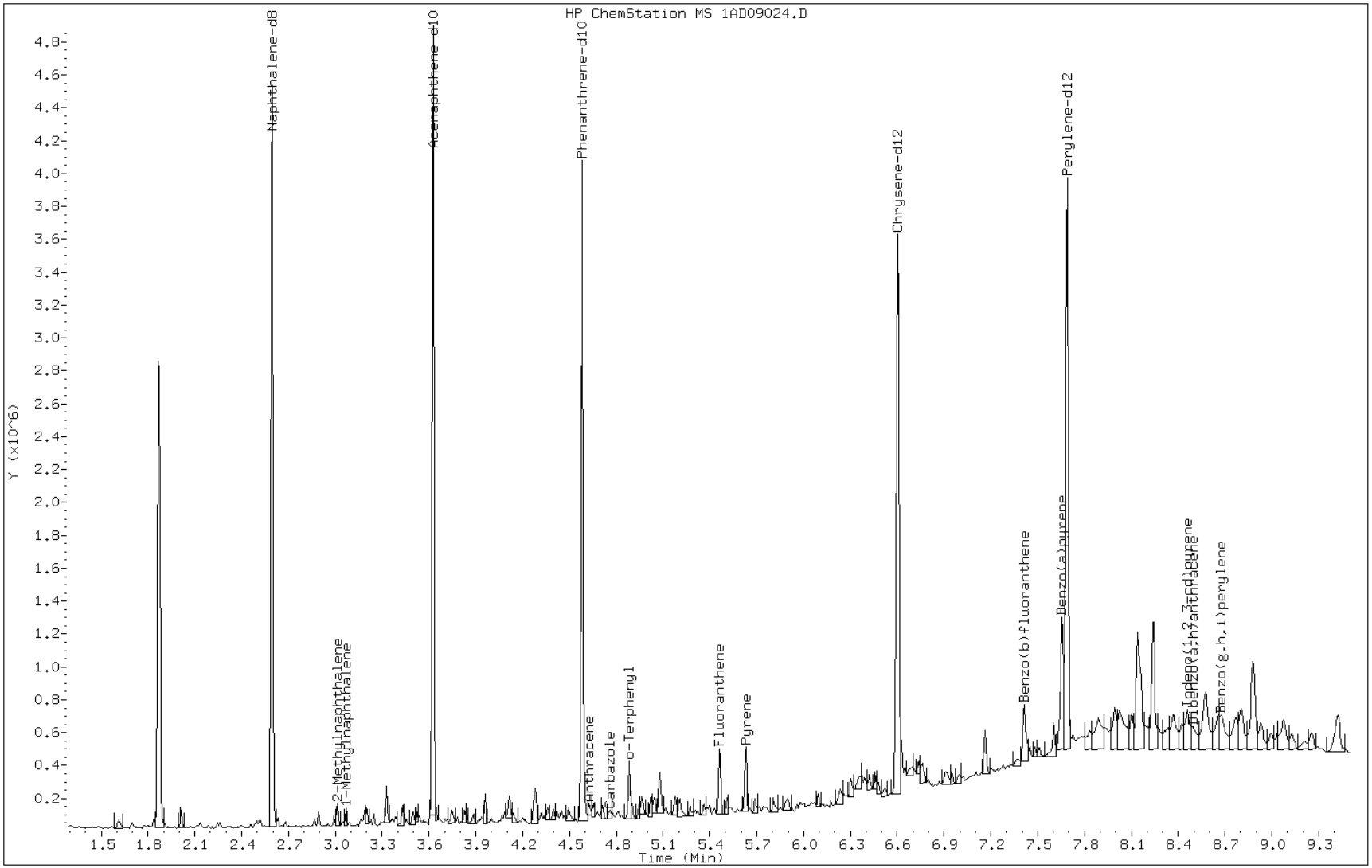
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AD09024.D

Date: 09-APR-2013 19:03

Client ID: CV1131C-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-65-a Operator: SCC



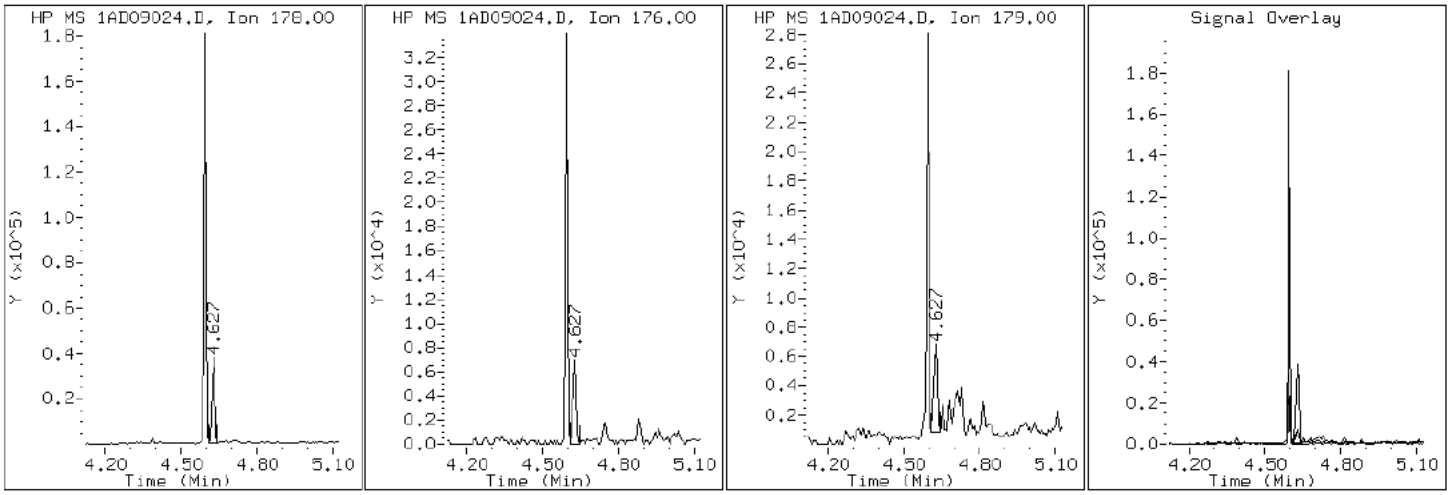
Data File: 1AD09024.D

Date: 09-APR-2013 19:03

Client ID: CV1131C-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-65-a Operator: SCC

12 Anthracene



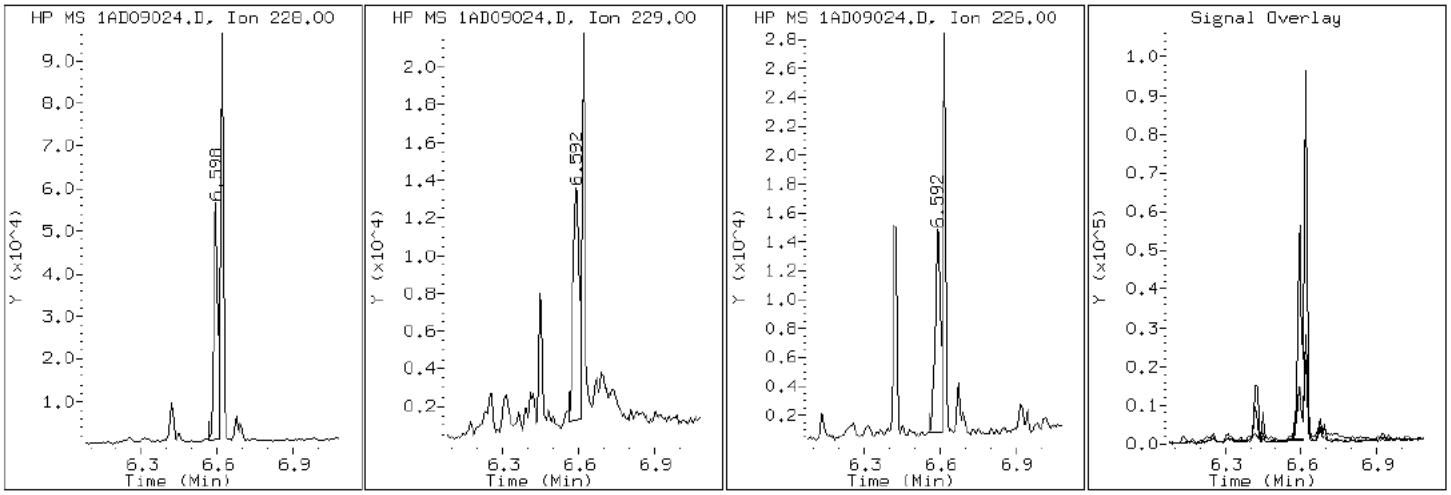
Data File: 1AD09024.D

Date: 09-APR-2013 19:03

Client ID: CV1131C-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-65-a Operator: SCC

17 Benzo(a)anthracene



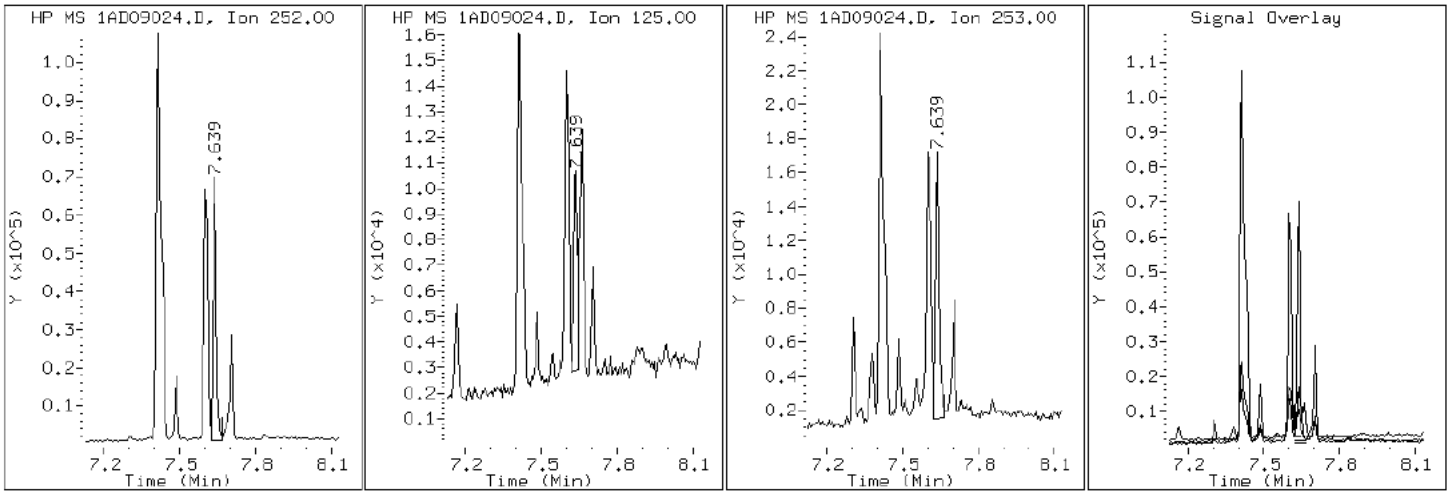
Data File: 1AD09024.D

Date: 09-APR-2013 19:03

Client ID: CV1131C-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-65-a Operator: SCC

22 Benzo(a)pyrene



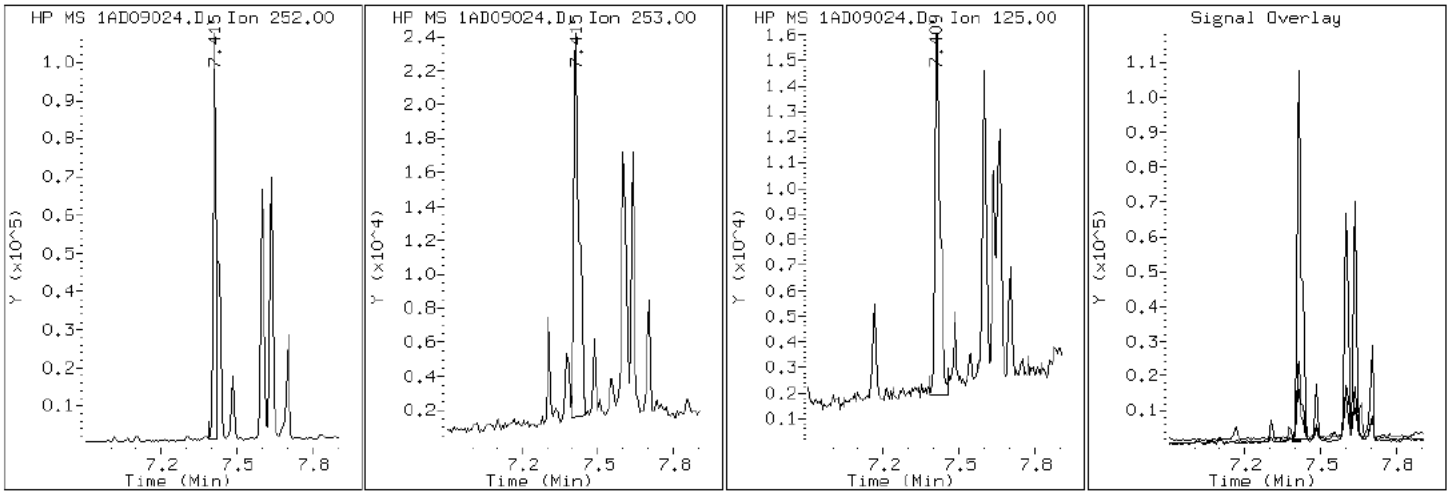
Data File: 1AD09024.D

Date: 09-APR-2013 19:03

Client ID: CV1131C-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-65-a Operator: SCC

20 Benzo(b)fluoranthene



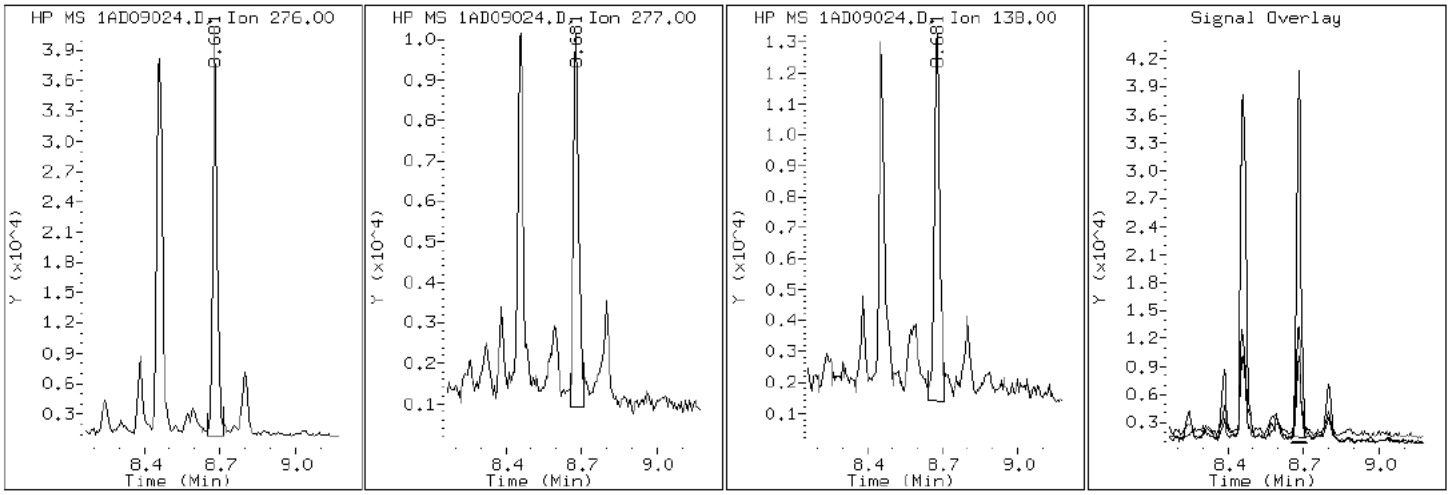
Data File: 1AD09024.D

Date: 09-APR-2013 19:03

Client ID: CV1131C-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-65-a Operator: SCC

26 Benzo(g,h,i)perylene



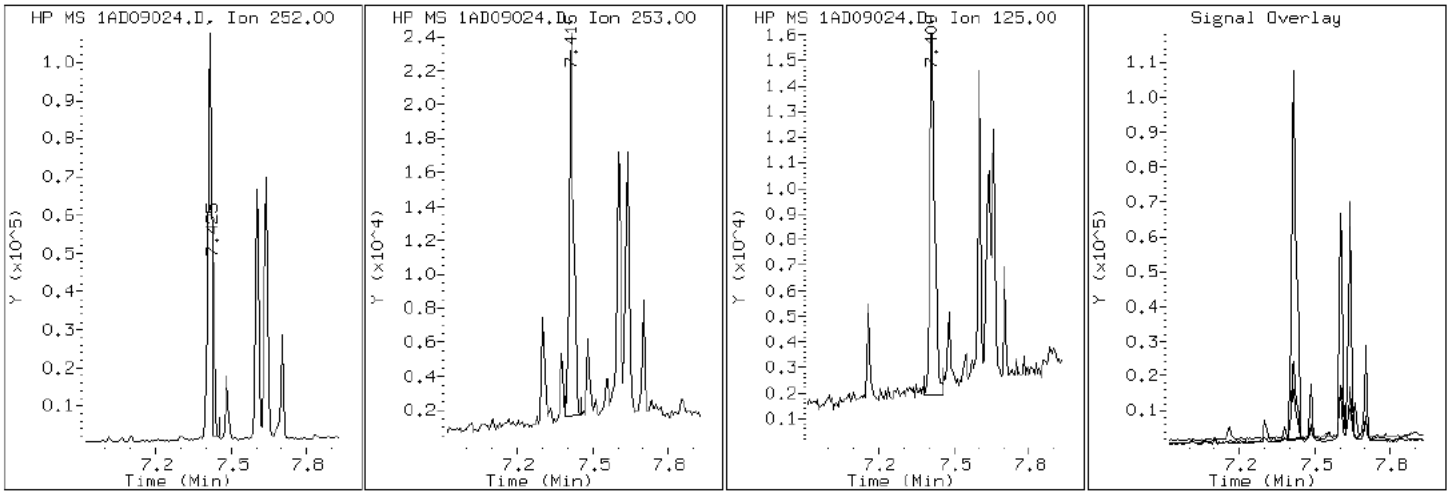
Data File: 1AD09024.D

Date: 09-APR-2013 19:03

Client ID: CV1131C-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-65-a Operator: SCC

21 Benzo(k)fluoranthene



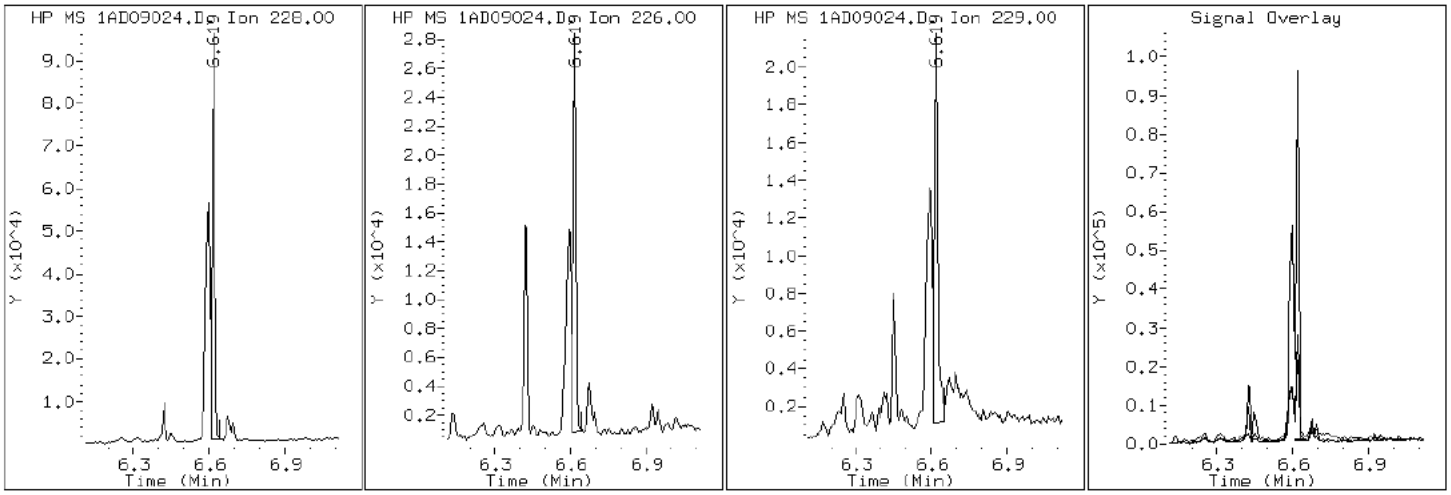
Data File: 1AD09024.D

Date: 09-APR-2013 19:03

Client ID: CV1131C-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-65-a Operator: SCC

19 Chrysene



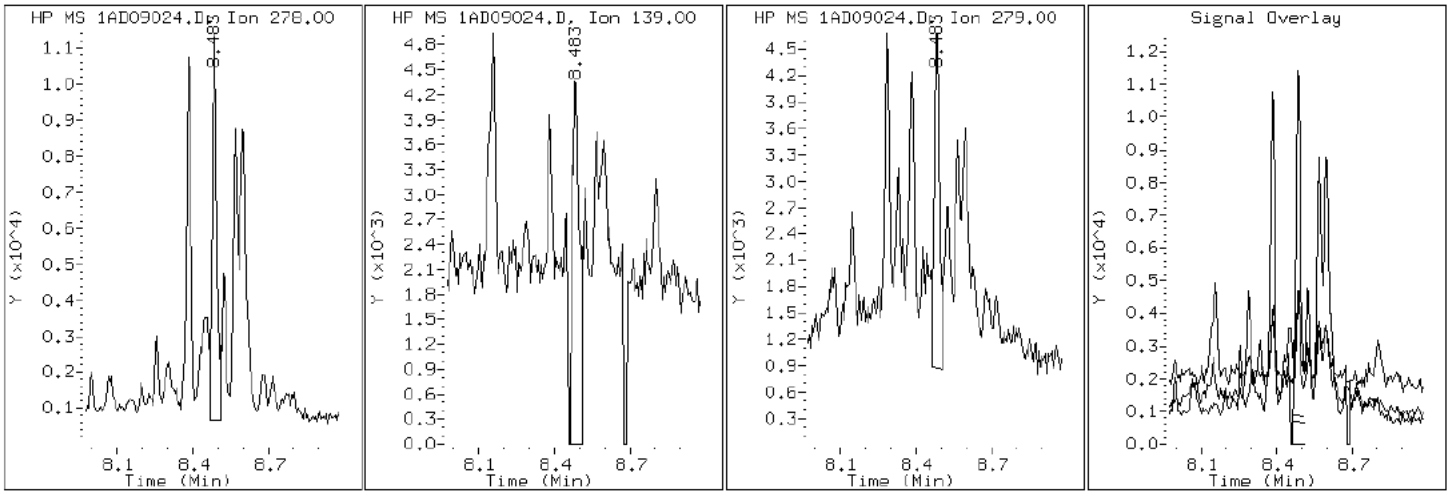
Data File: 1AD09024.D

Date: 09-APR-2013 19:03

Client ID: CV1131C-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-65-a Operator: SCC

25 Dibenzo(a,h)anthracene



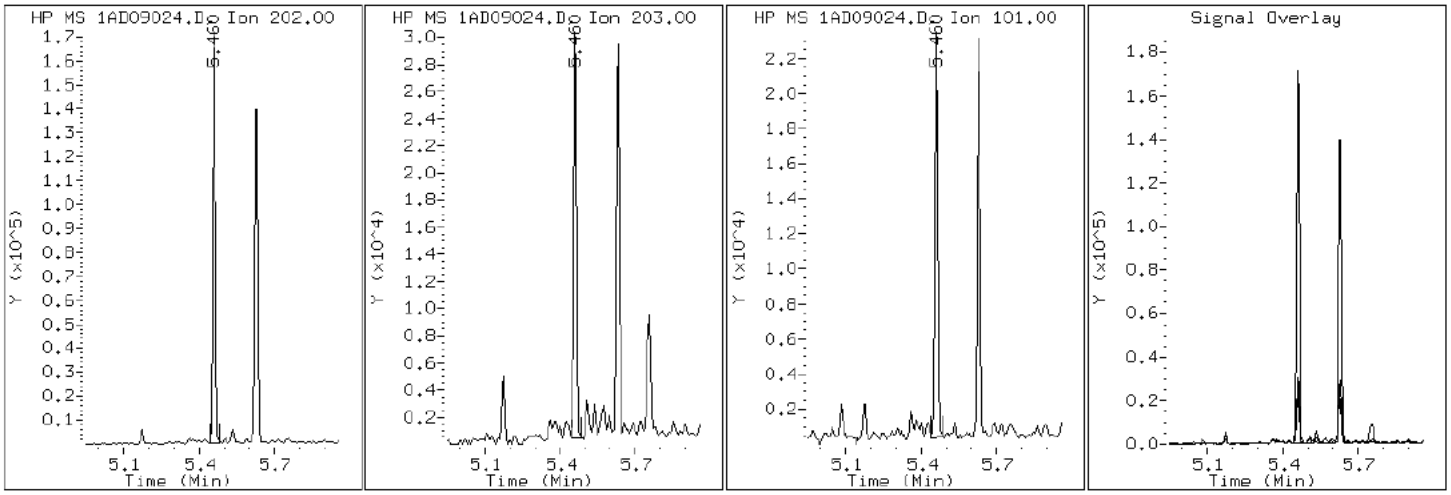
Data File: 1AD09024.D

Date: 09-APR-2013 19:03

Client ID: CV1131C-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-65-a Operator: SCC

15 Fluoranthene



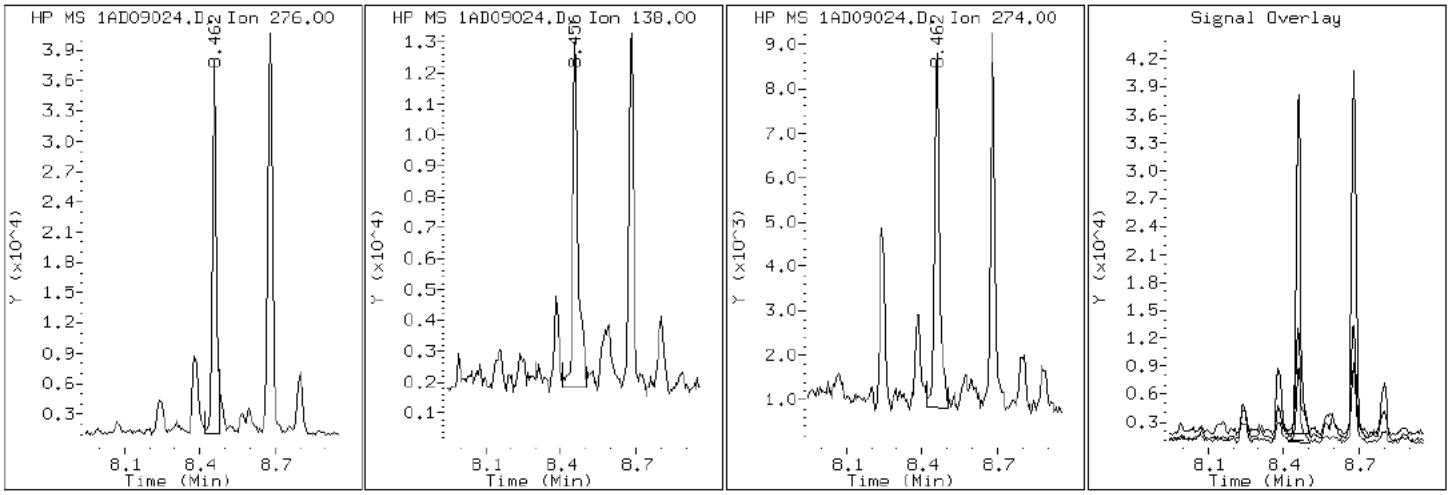
Data File: 1AD09024.D

Date: 09-APR-2013 19:03

Client ID: CV1131C-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-65-a Operator: SCC

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



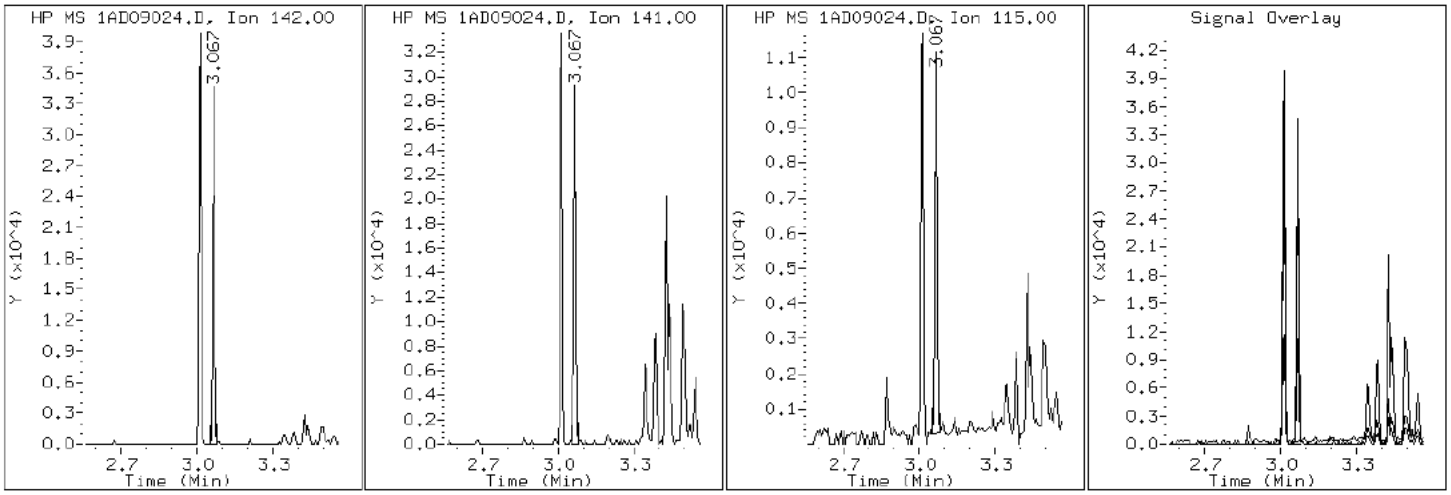
Data File: 1AD09024.D

Date: 09-APR-2013 19:03

Client ID: CV1131C-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-65-a Operator: SCC

4 1-Methylnaphthalene



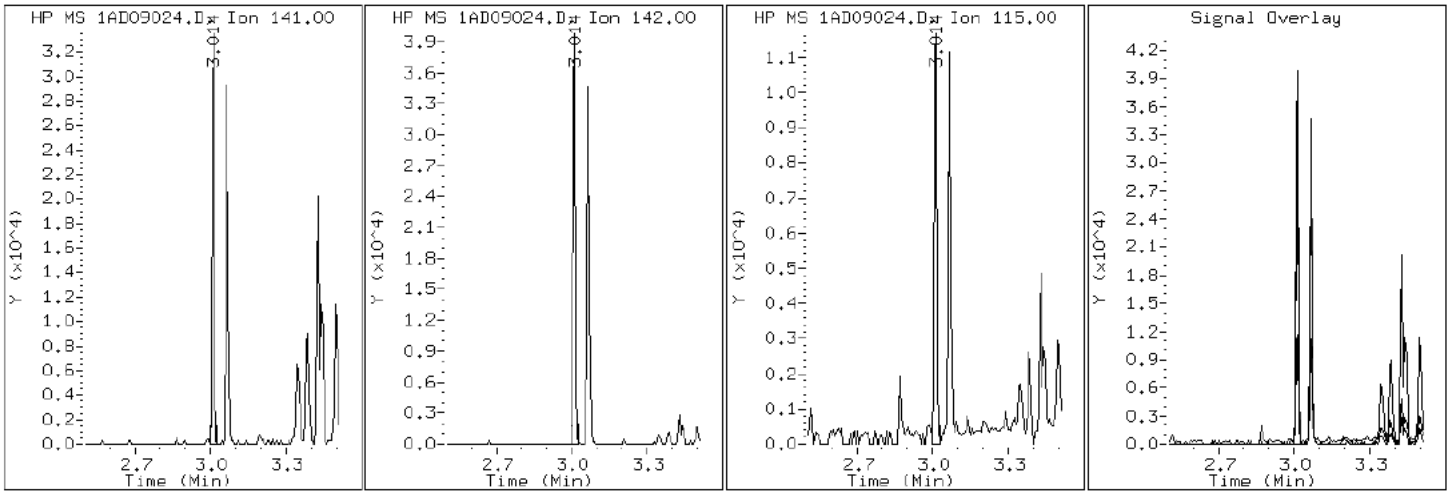
Data File: 1AD09024.D

Date: 09-APR-2013 19:03

Client ID: CV1131C-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-65-a Operator: SCC

3 2-Methylnaphthalene



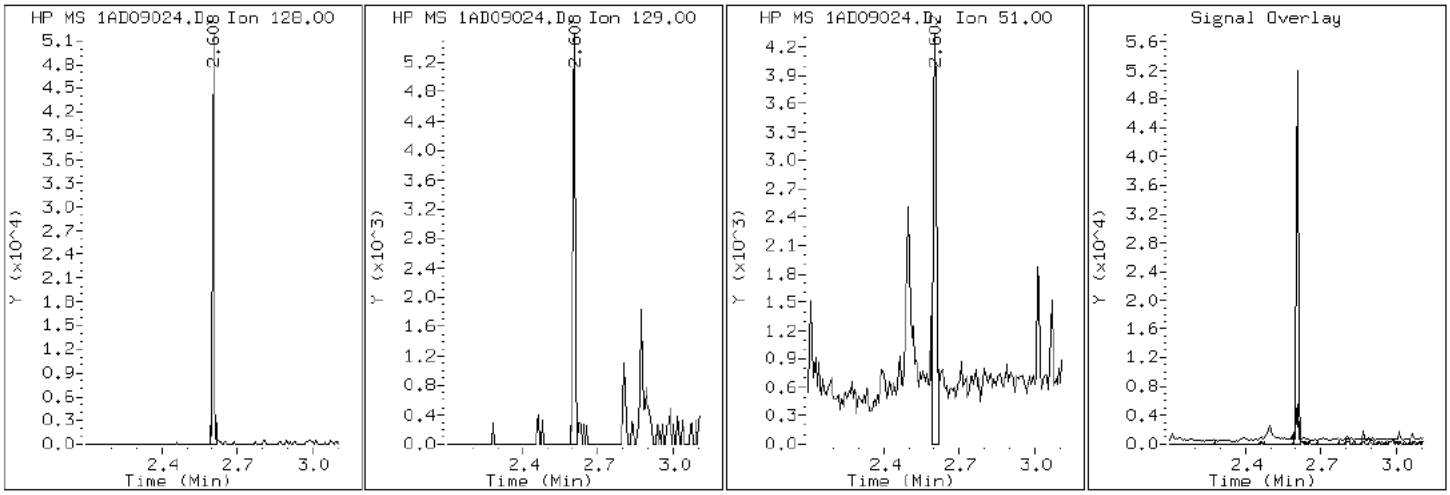
Data File: 1AD09024.D

Date: 09-APR-2013 19:03

Client ID: CV1131C-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-65-a Operator: SCC

2 Naphthalene



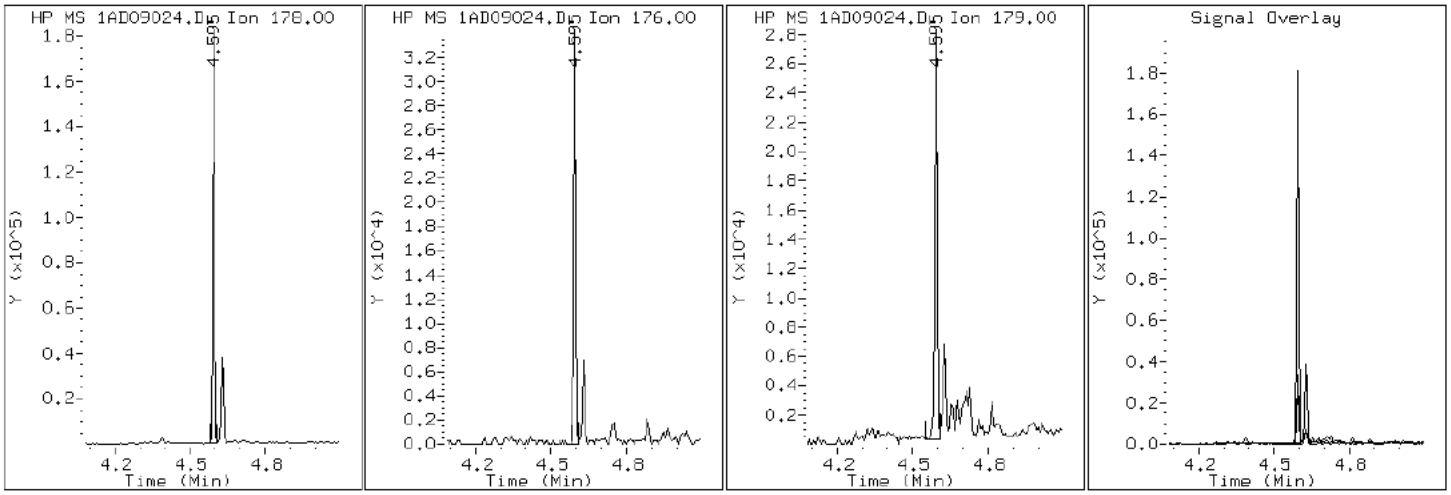
Data File: 1AD09024.D

Date: 09-APR-2013 19:03

Client ID: CV1131C-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-65-a Operator: SCC

11 Phenanthrene



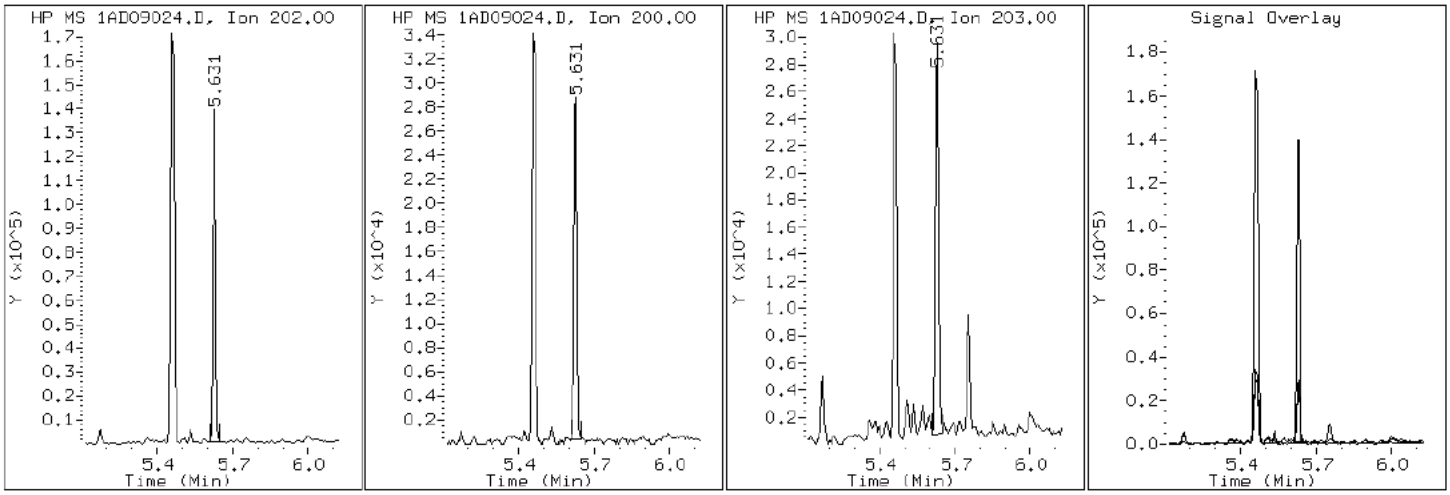
Data File: 1AD09024.D

Date: 09-APR-2013 19:03

Client ID: CV1131C-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-65-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD09024.D
Inj. Date and Time: 09-APR-2013 19:03
Instrument ID: BSMA5973.i
Client ID: CV1131C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

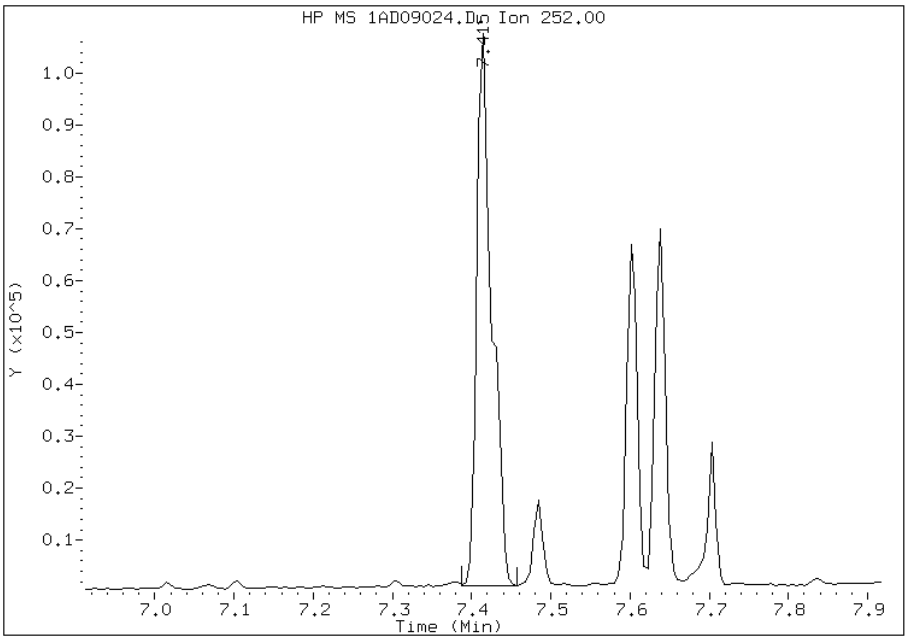
Processing Integration Results

RT: 7.41

Response: 137975

Amount: 3

Conc: 997



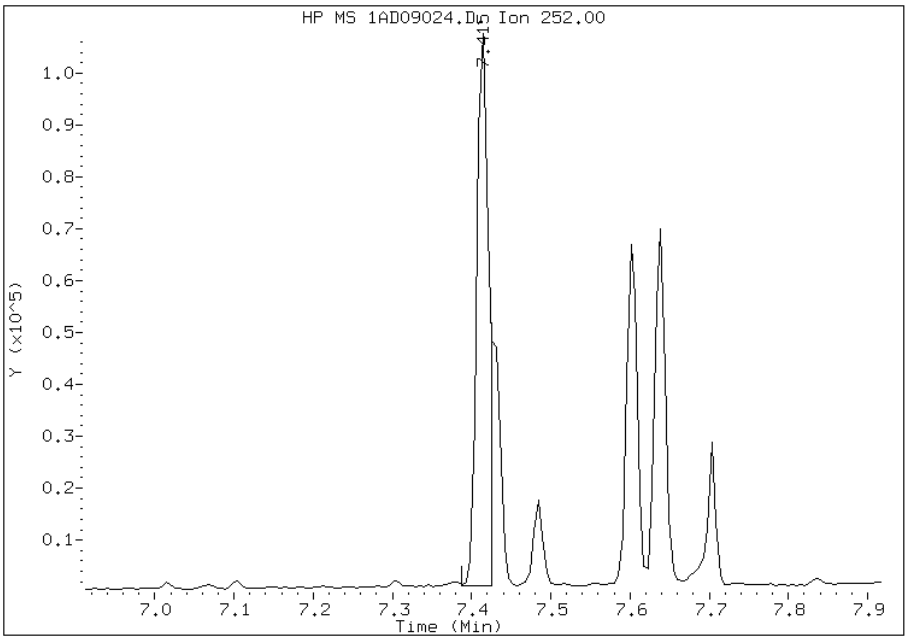
Manual Integration Results

RT: 7.41

Response: 111029

Amount: 2

Conc: 802



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

Manual Integration Report

Data File: 1AD09024.D
Inj. Date and Time: 09-APR-2013 19:03
Instrument ID: BSMA5973.i
Client ID: CV1131C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

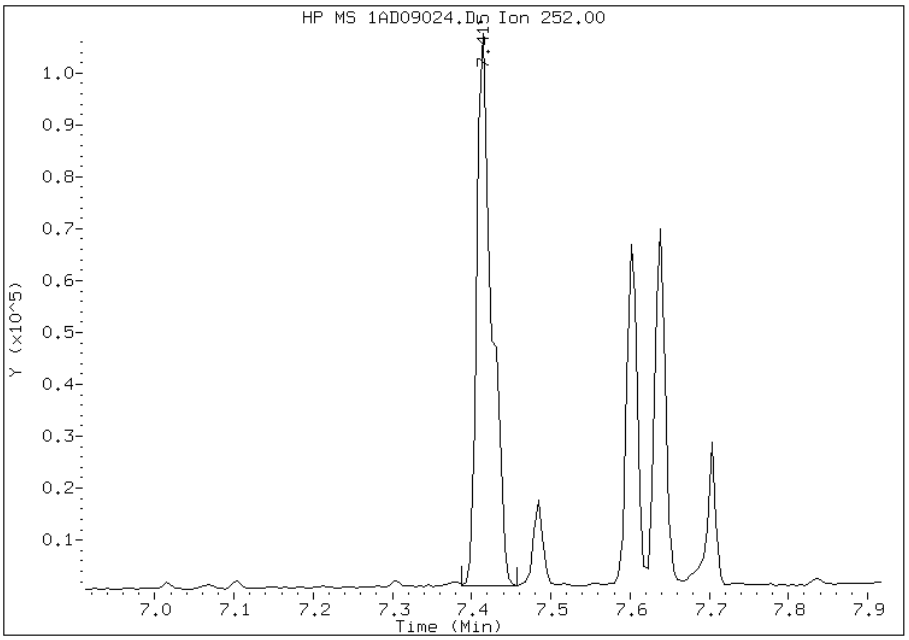
Processing Integration Results

RT: 7.41

Response: 137982

Amount: 3

Conc: 897



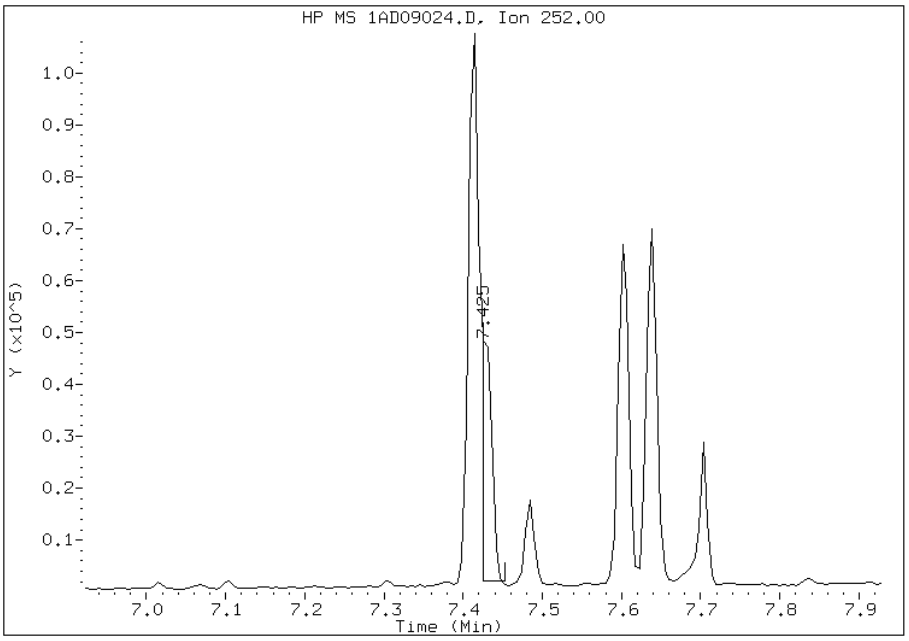
Manual Integration Results

RT: 7.43

Response: 40344

Amount: 1

Conc: 262



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

Manual Integration Report

Data File: 1AD09024.D
Inj. Date and Time: 09-APR-2013 19:03
Instrument ID: BSMA5973.i
Client ID: CV1131C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

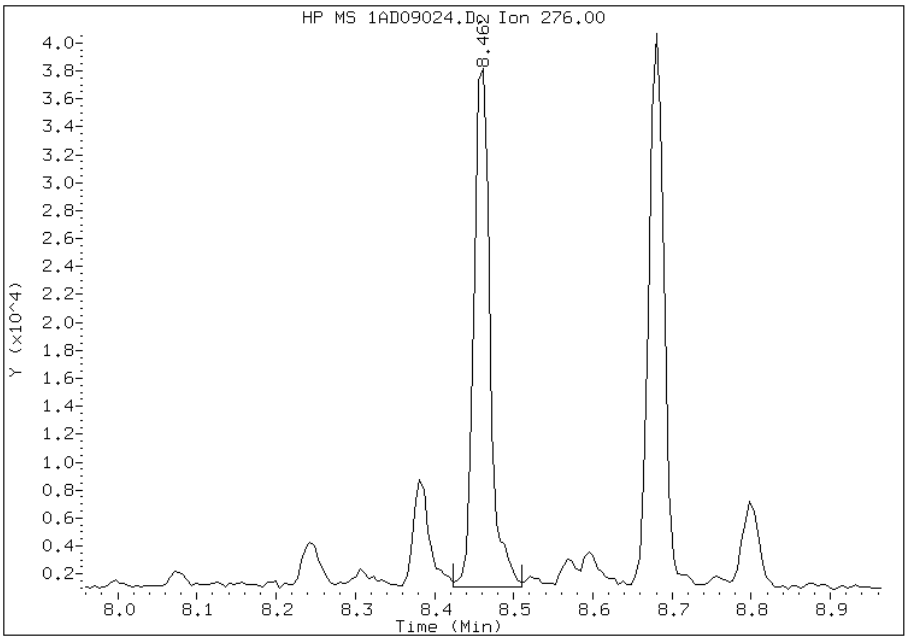
Processing Integration Results

RT: 8.46

Response: 52343

Amount: 2

Conc: 531



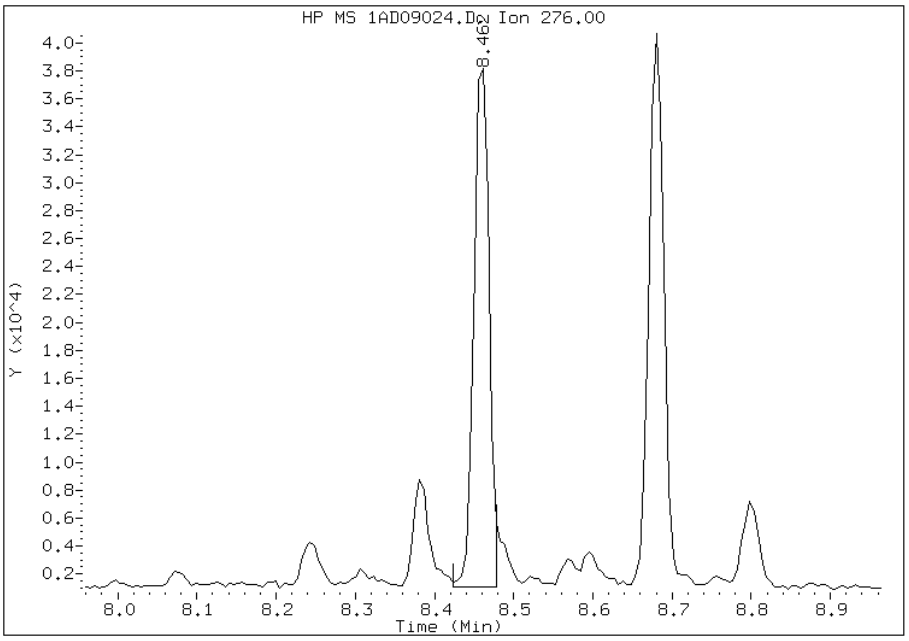
Manual Integration Results

RT: 8.46

Response: 49077

Amount: 2

Conc: 506



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1056A-CS | Lab Sample ID: 680-88811-66

Matrix: Solid | Lab File ID: 1AD09025.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 13:45

Extract. Method: 3546 | Date Extracted: 04/08/2013 09:32

Sample wt/vol: 15.00(g) | Date Analyzed: 04/09/2013 19:18

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

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

% Moisture: 16.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136269 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	53		48	6.0
120-12-7	Anthracene	55		10	5.0
56-55-3	Benzo[a]anthracene	140		9.5	4.6
50-32-8	Benzo[a]pyrene	130		12	6.2
205-99-2	Benzo[b]fluoranthene	320		15	7.3
191-24-2	Benzo[g,h,i]perylene	210		24	5.2
207-08-9	Benzo[k]fluoranthene	94		9.5	4.3
218-01-9	Chrysene	200		11	5.4
53-70-3	Dibenz(a,h)anthracene	56		24	4.9
206-44-0	Fluoranthene	220		24	4.8
86-73-7	Fluorene	24	U	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	200		24	8.5
90-12-0	1-Methylnaphthalene	62		48	5.2
91-57-6	2-Methylnaphthalene	71		48	8.5
91-20-3	Naphthalene	66		48	5.2
85-01-8	Phenanthrene	150		9.5	4.6
129-00-0	Pyrene	230		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	45		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09025.D
Lab Smp Id: 680-88811-A-66-A Client Smp ID: CV1056A-CS
Inj Date : 09-APR-2013 19:18
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88811-a-66-a
Misc Info : 680-88811-A-66-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:20 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	15.983	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.594	2.591	(1.000)	1713354	40.0000	
* 6 Acenaphthene-d10	164	3.625	3.622	(1.000)	910906	40.0000	
* 10 Phenanthrene-d10	188	4.581	4.573	(1.000)	1401319	40.0000	
$ 14 o-Terphenyl	230	4.886	4.877	(1.066)	137191	4.50371	357.3636
* 18 Chrysene-d12	240	6.605	6.597	(1.000)	1385071	40.0000	
* 23 Perylene-d12	264	7.690	7.676	(1.000)	1593073	40.0000	
2 Naphthalene	128	2.605	2.602	(1.004)	39071	0.82987	65.8492
3 2-Methylnaphthalene	141	3.011	3.008	(1.161)	28880	0.89617	71.1102
4 1-Methylnaphthalene	142	3.064	3.062	(1.181)	25674	0.77788	61.7242
5 Acenaphthylene	152	3.534	3.532	(0.975)	18713	0.66876	53.0650
11 Phenanthrene	178	4.597	4.589	(1.003)	100855	1.83852	145.8838
12 Anthracene	178	4.629	4.626	(1.010)	26047	0.68792	54.5858
13 Carbazole	167	4.757	4.755	(1.038)	15563	0.34912	27.7019
15 Fluoranthene	202	5.462	5.454	(1.192)	170803	2.79337	221.6505

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Pyrene	202	5.628	5.620	(0.852)	152001	2.84792	225.9786
17 Benzo(a)anthracene	228	6.595	6.581	(0.998)	84148	1.82132	144.5192
19 Chrysene	228	6.621	6.613	(1.002)	117626	2.49627	198.0755
20 Benzo(b)fluoranthene	252	7.412	7.404	(0.964)	197082	4.07997	323.7405(M)
21 Benzo(k)fluoranthene	252	7.428	7.425	(0.966)	63560	1.18472	94.0062(QM)
22 Benzo(a)pyrene	252	7.636	7.628	(0.993)	112884	1.60324	127.2152
24 Indeno(1,2,3-cd)pyrene	276	8.459	8.451	(1.100)	98629	2.54434	201.8900(M)
25 Dibenzo(a,h)anthracene	278	8.486	8.477	(1.103)	28406	0.70530	55.9644
26 Benzo(g,h,i)perylene	276	8.683	8.670	(1.129)	113287	2.61092	207.1732

QC Flag Legend

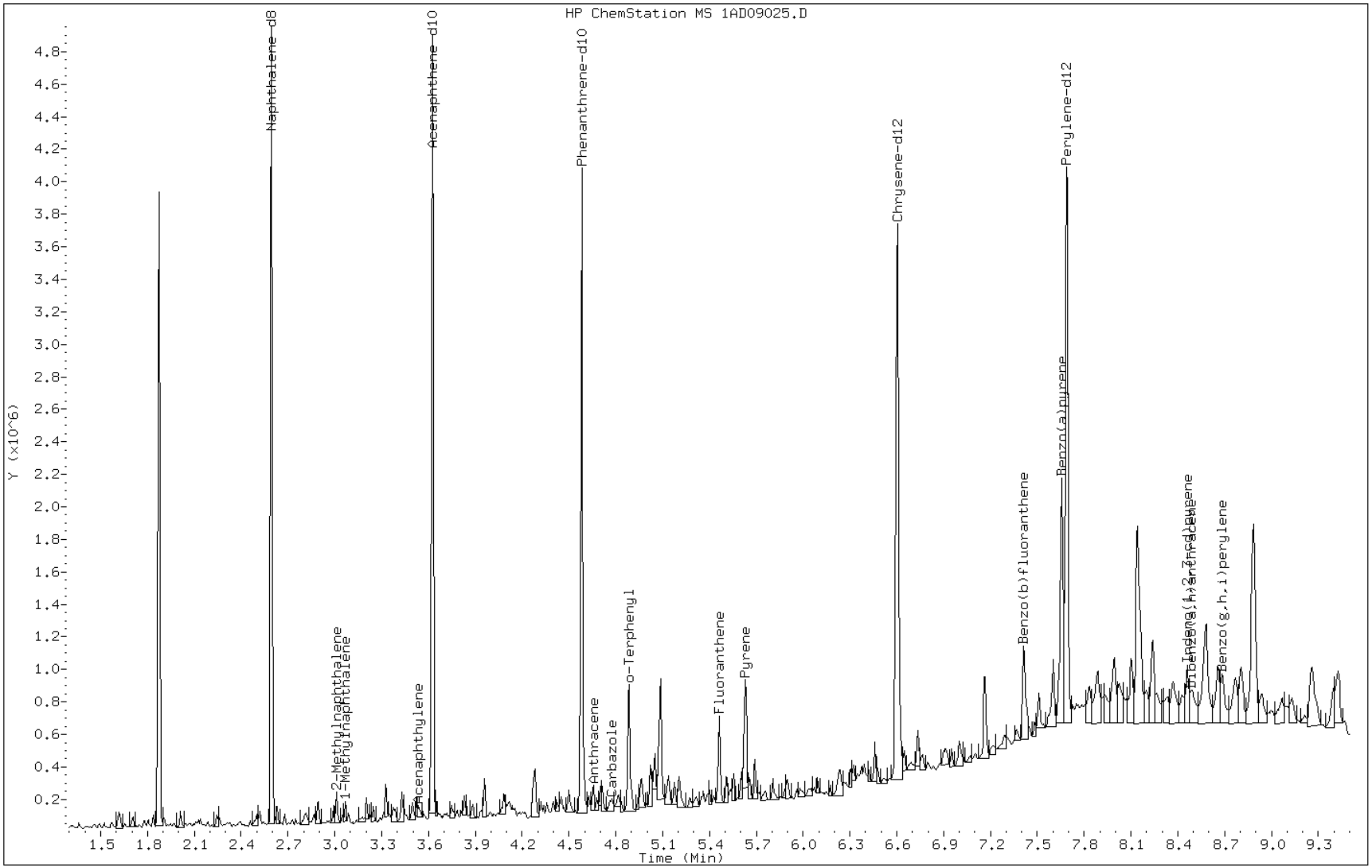
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AD09025.D

Date: 09-APR-2013 19:18

Client ID: CV1056A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-66-a Operator: SCC



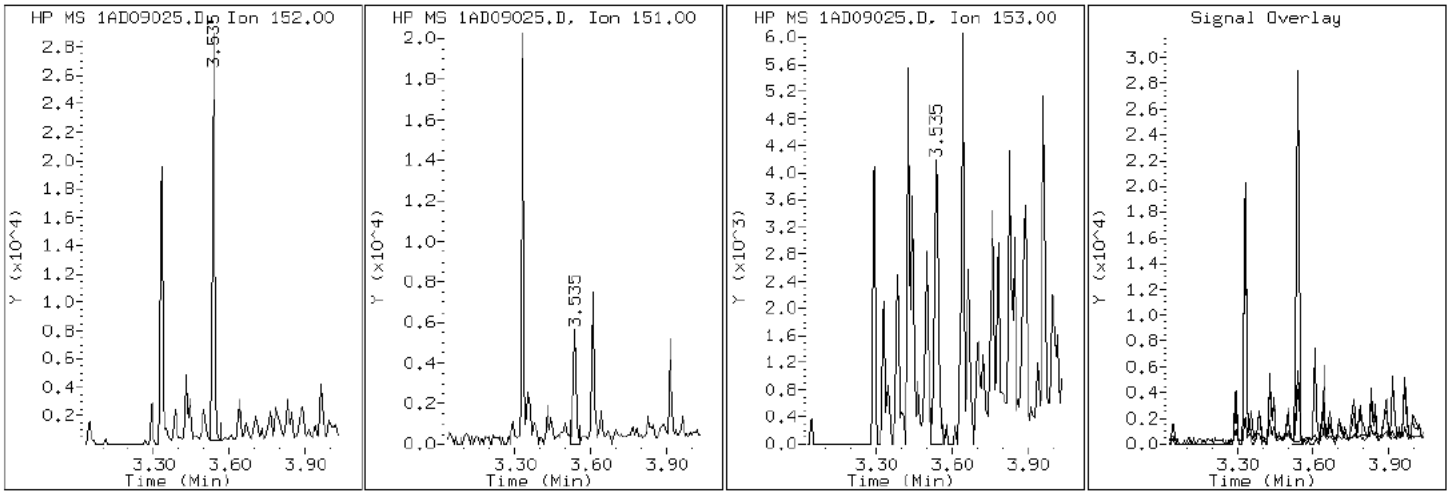
Data File: 1AD09025.D

Date: 09-APR-2013 19:18

Client ID: CV1056A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-66-a Operator: SCC

5 Acenaphthylene



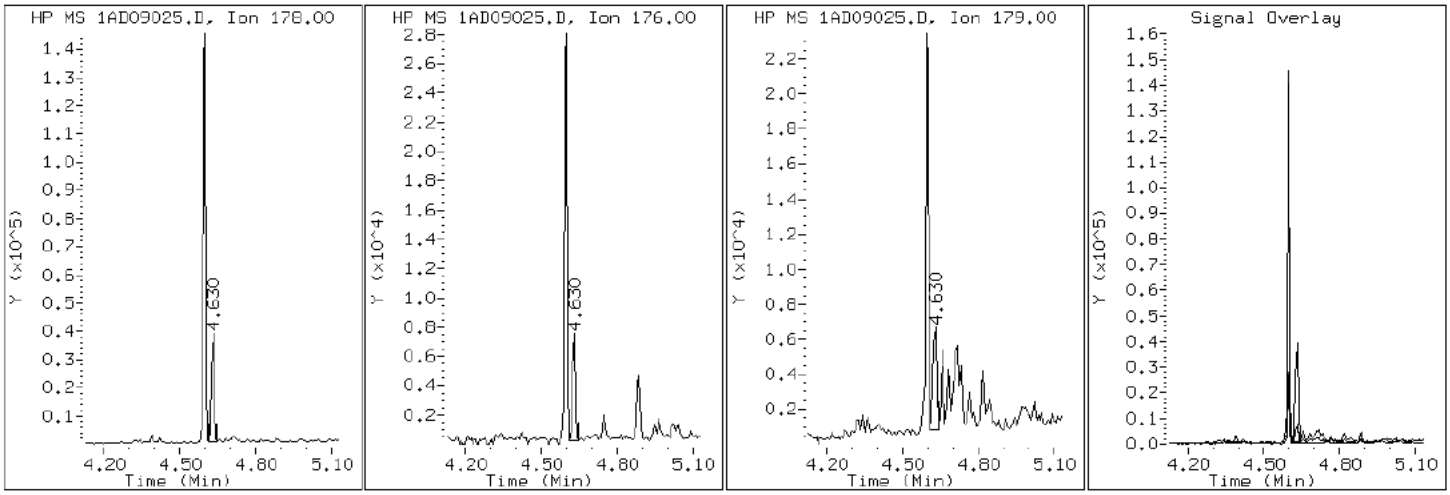
Data File: 1AD09025.D

Date: 09-APR-2013 19:18

Client ID: CV1056A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-66-a Operator: SCC

12 Anthracene



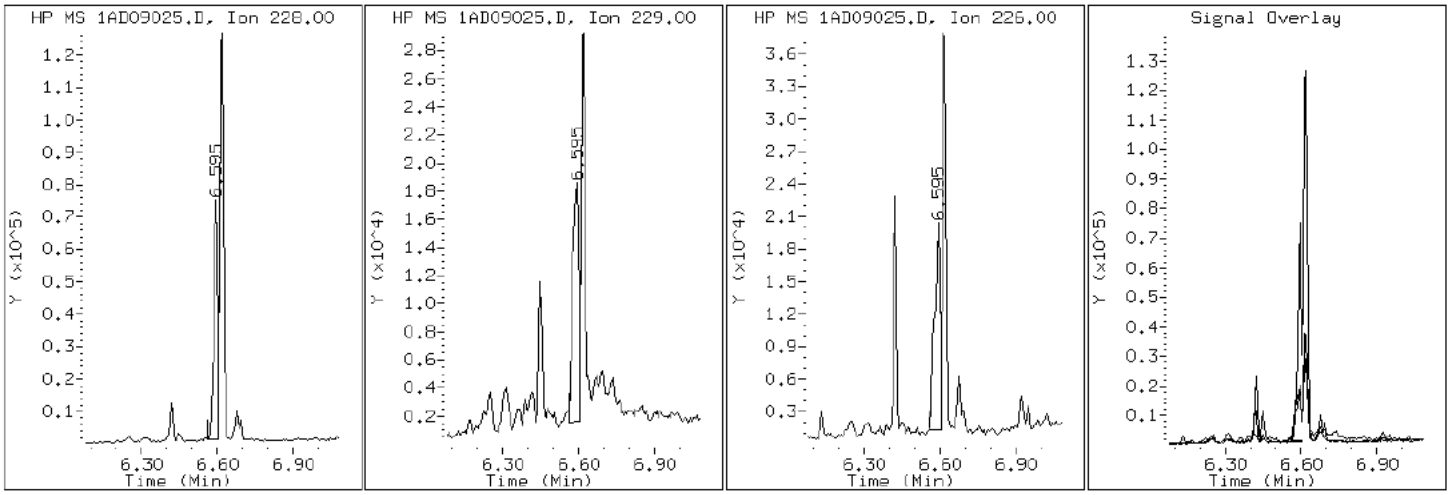
Data File: 1AD09025.D

Date: 09-APR-2013 19:18

Client ID: CV1056A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-66-a Operator: SCC

17 Benzo(a)anthracene



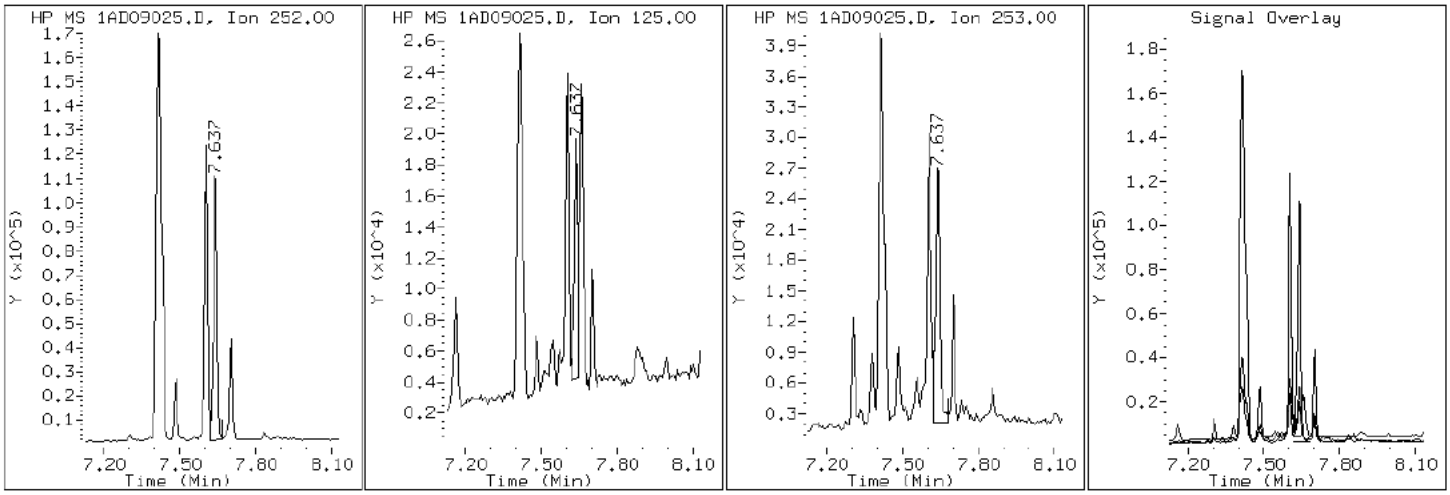
Data File: 1AD09025.D

Date: 09-APR-2013 19:18

Client ID: CV1056A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-66-a Operator: SCC

22 Benzo(a)pyrene



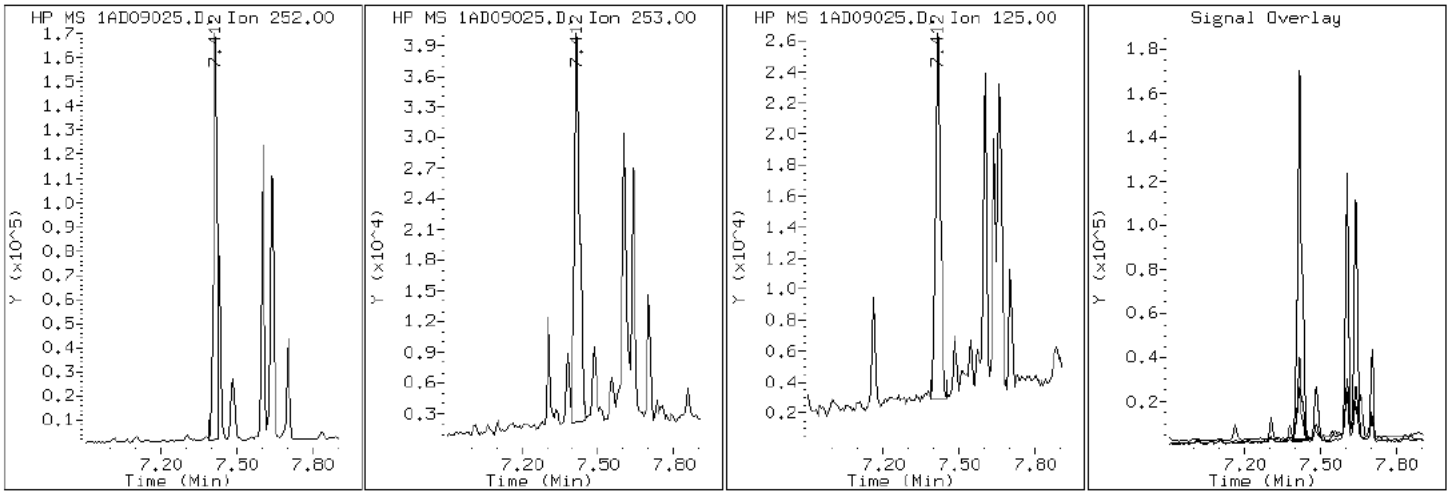
Data File: 1AD09025.D

Date: 09-APR-2013 19:18

Client ID: CV1056A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-66-a Operator: SCC

20 Benzo(b)fluoranthene



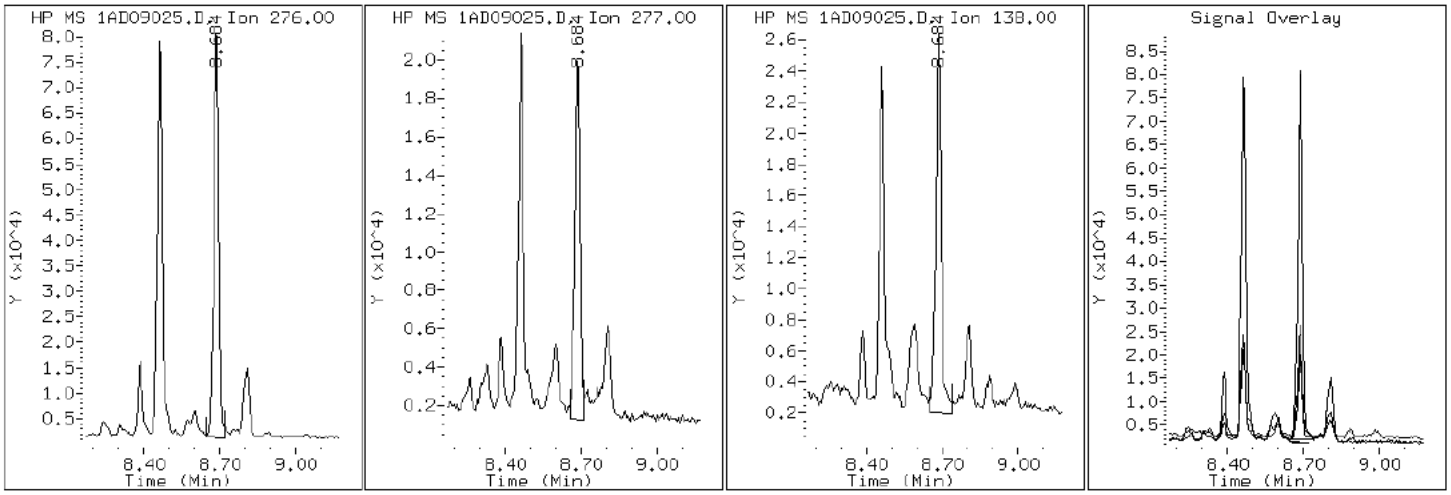
Data File: 1AD09025.D

Date: 09-APR-2013 19:18

Client ID: CV1056A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-66-a Operator: SCC

26 Benzo(g,h,i)perylene



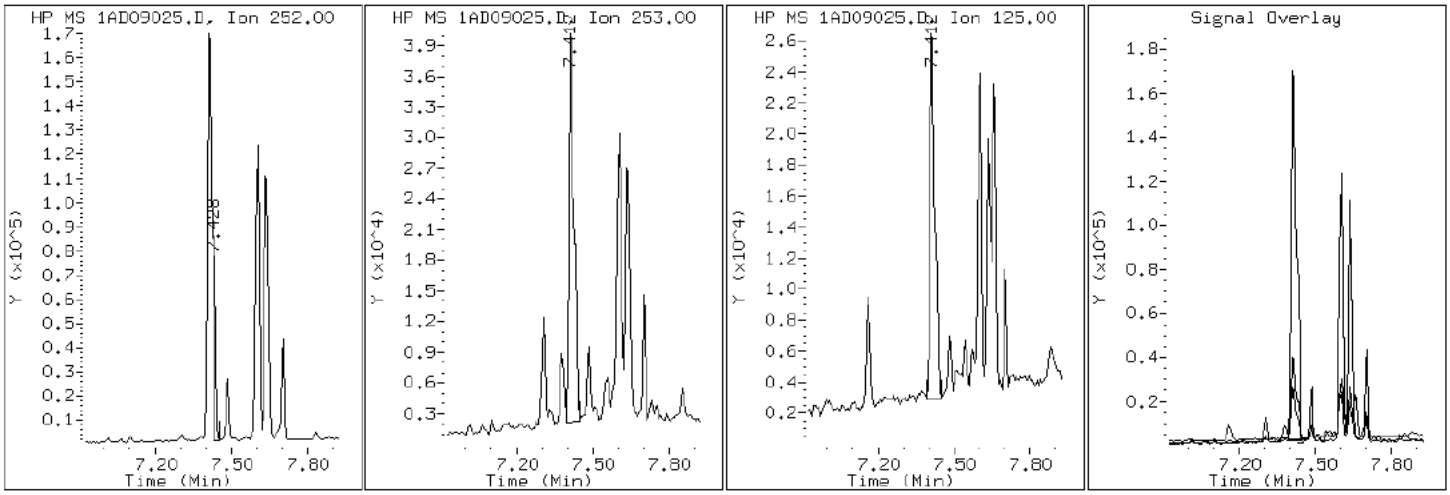
Data File: 1AD09025.D

Date: 09-APR-2013 19:18

Client ID: CV1056A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-66-a Operator: SCC

21 Benzo(k)fluoranthene



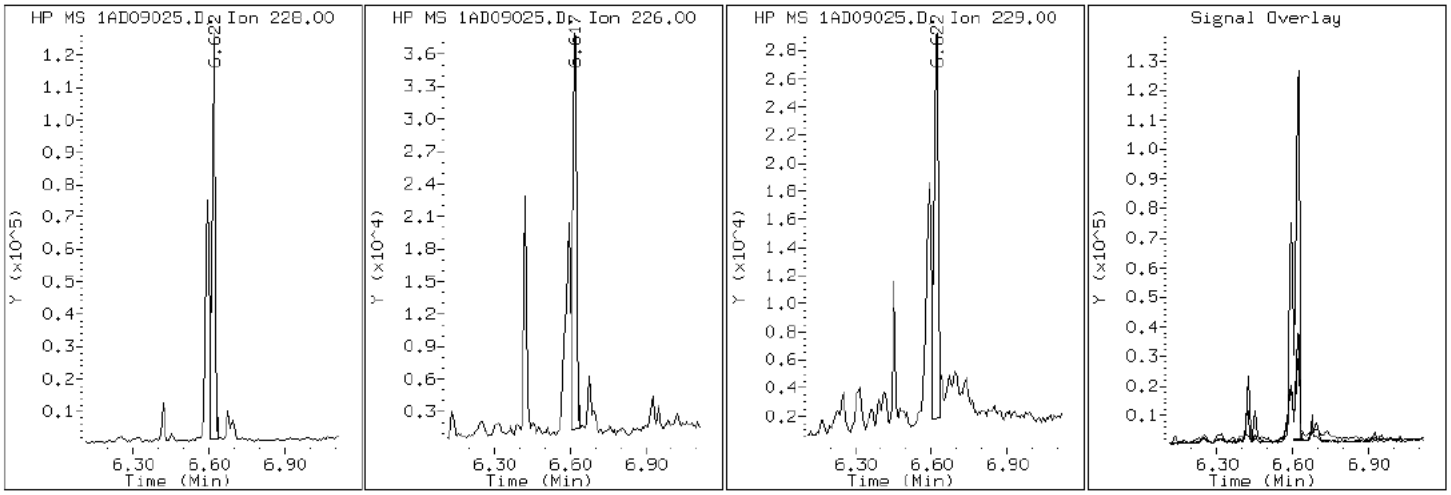
Data File: 1AD09025.D

Date: 09-APR-2013 19:18

Client ID: CV1056A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-66-a Operator: SCC

19 Chrysene



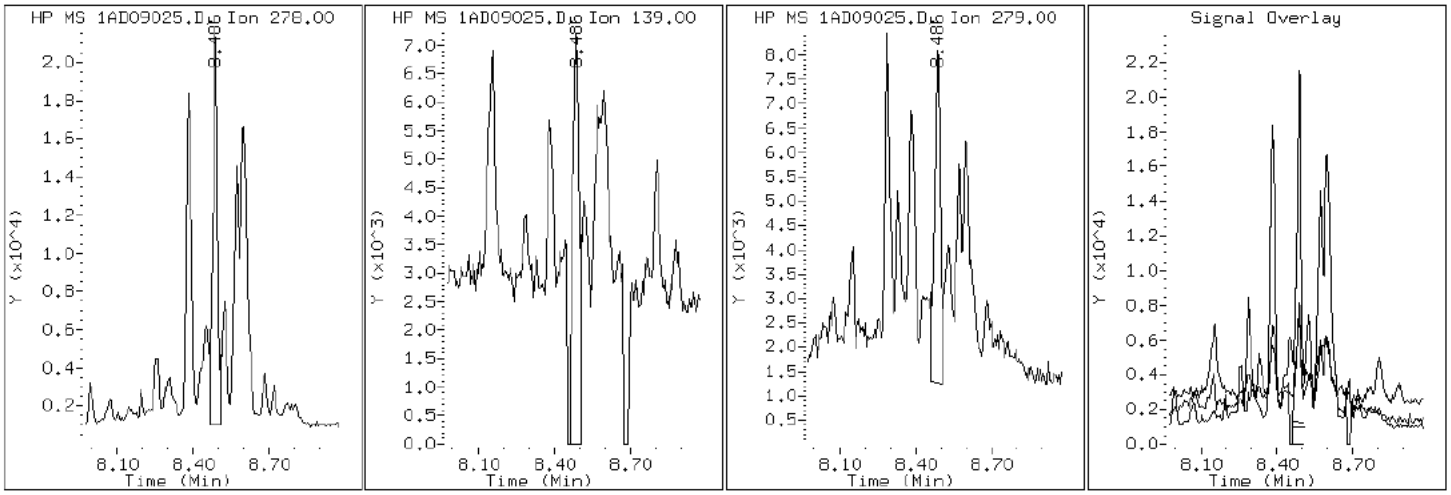
Data File: 1AD09025.D

Date: 09-APR-2013 19:18

Client ID: CV1056A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-66-a Operator: SCC

25 Dibenzo(a,h)anthracene



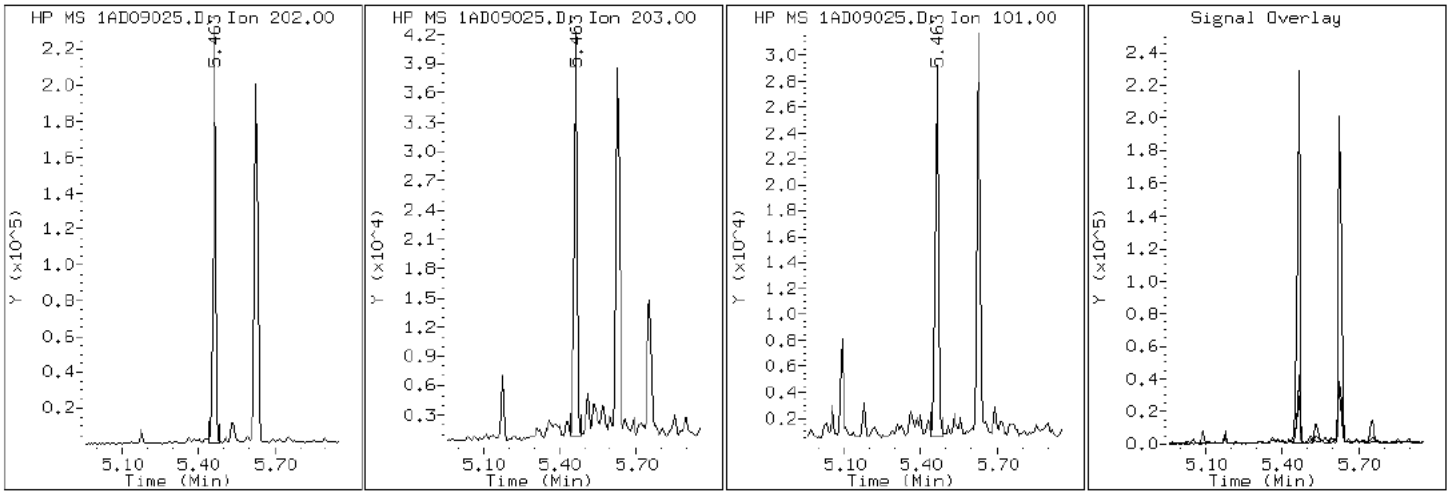
Data File: 1AD09025.D

Date: 09-APR-2013 19:18

Client ID: CV1056A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-66-a Operator: SCC

15 Fluoranthene



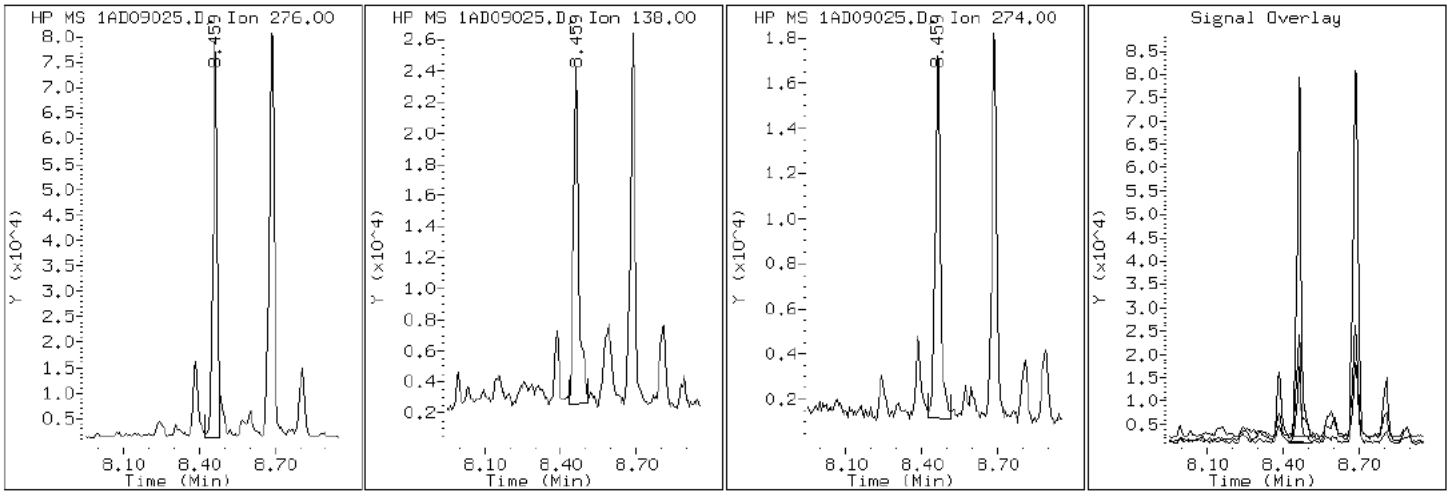
Data File: 1AD09025.D

Date: 09-APR-2013 19:18

Client ID: CV1056A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-66-a Operator: SCC

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



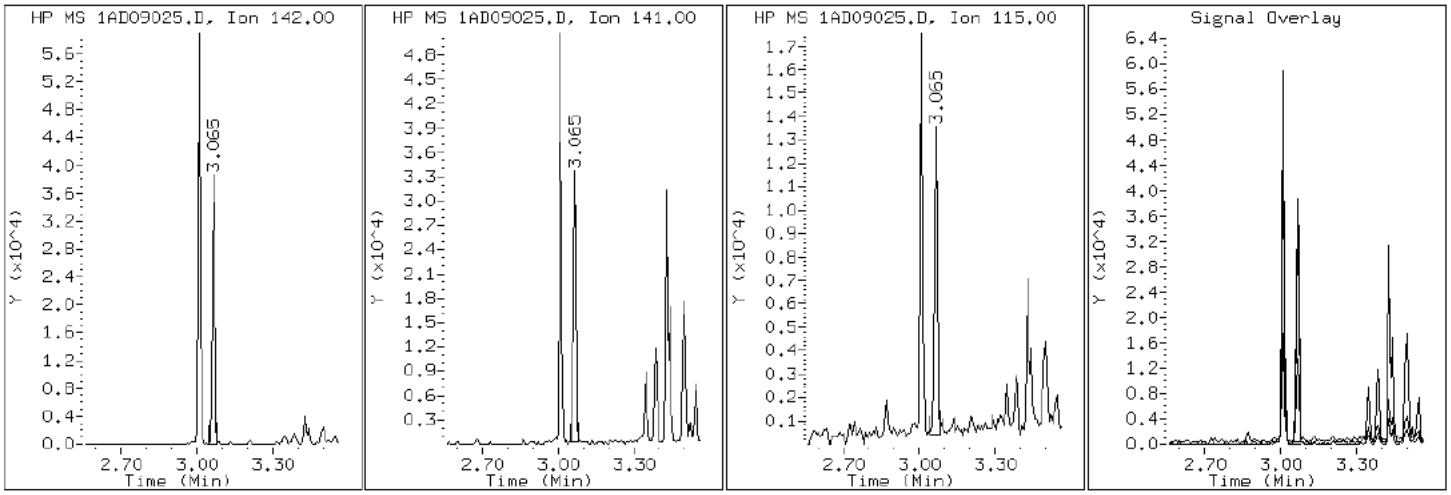
Data File: 1AD09025.D

Date: 09-APR-2013 19:18

Client ID: CV1056A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-66-a Operator: SCC

4 1-Methylnaphthalene



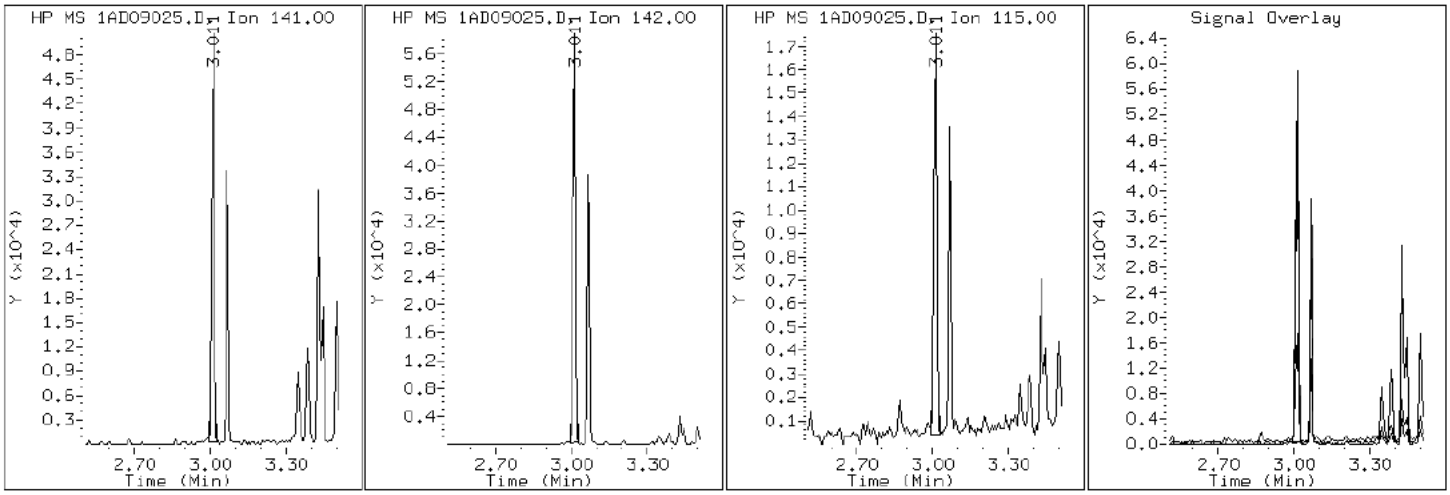
Data File: 1AD09025.D

Date: 09-APR-2013 19:18

Client ID: CV1056A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-66-a Operator: SCC

3 2-Methylnaphthalene



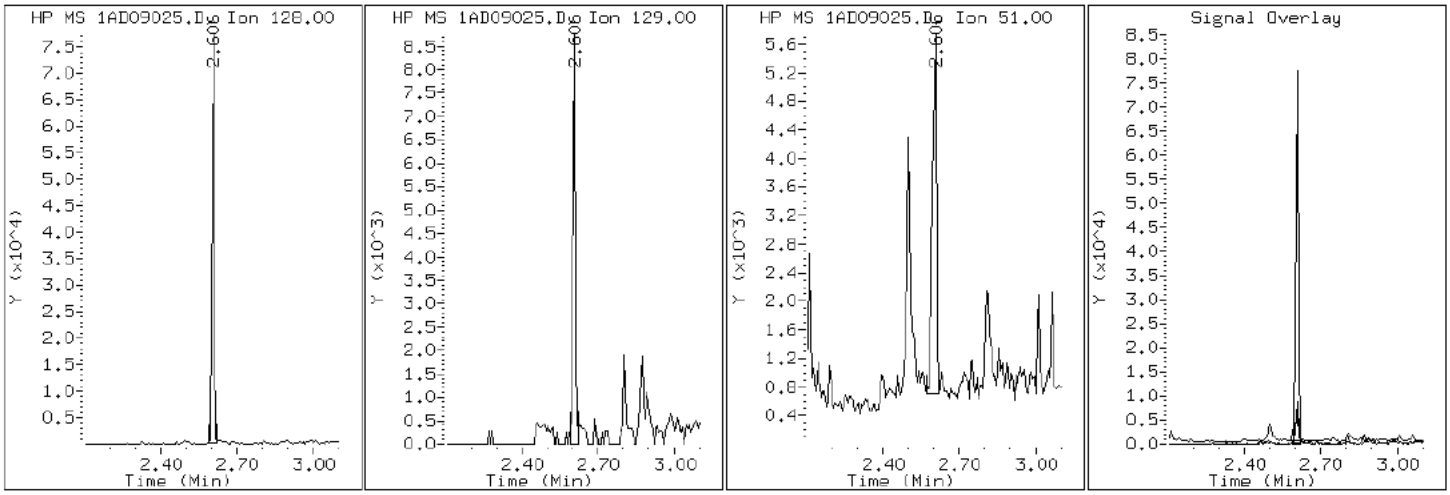
Data File: 1AD09025.D

Date: 09-APR-2013 19:18

Client ID: CV1056A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-66-a Operator: SCC

2 Naphthalene



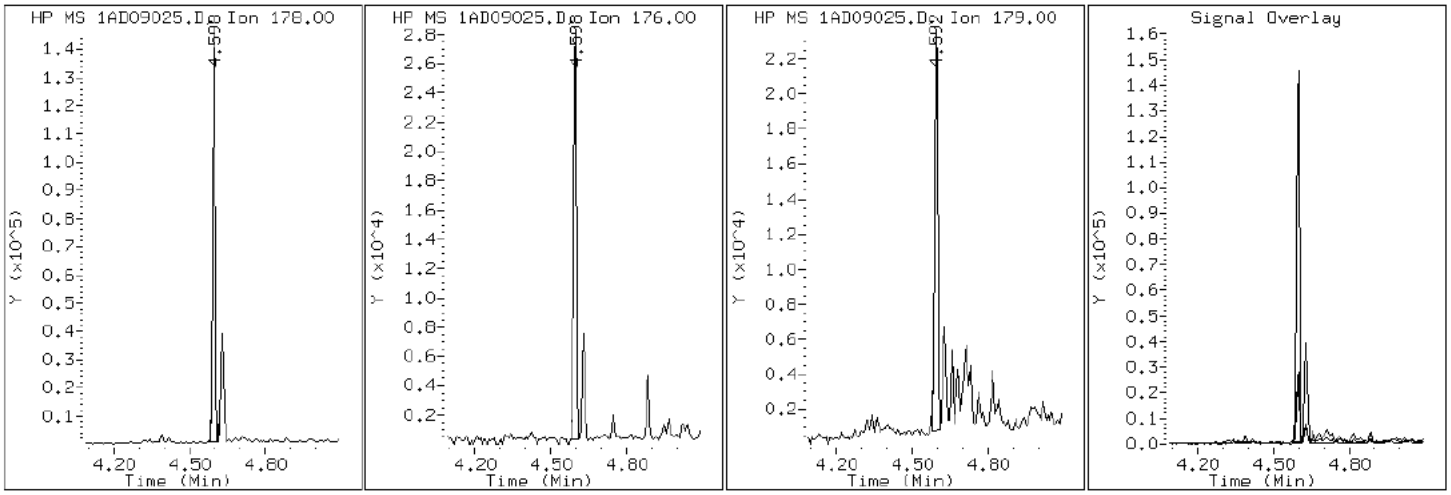
Data File: 1AD09025.D

Date: 09-APR-2013 19:18

Client ID: CV1056A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-66-a Operator: SCC

11 Phenanthrene



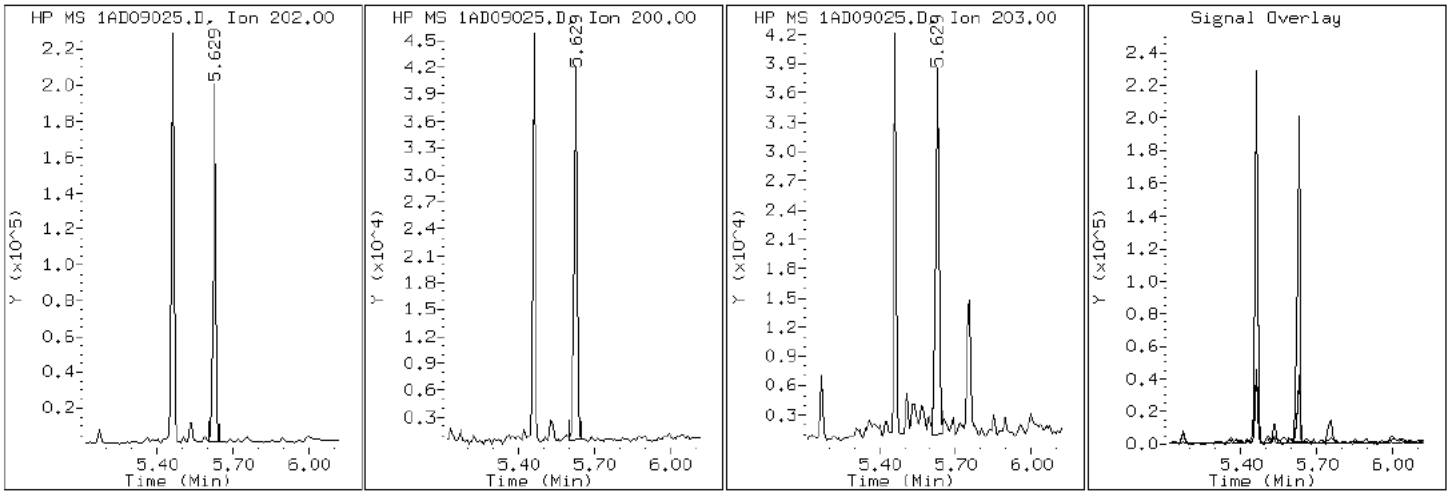
Data File: 1AD09025.D

Date: 09-APR-2013 19:18

Client ID: CV1056A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-a-66-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD09025.D
Inj. Date and Time: 09-APR-2013 19:18
Instrument ID: BSMA5973.i
Client ID: CV1056A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

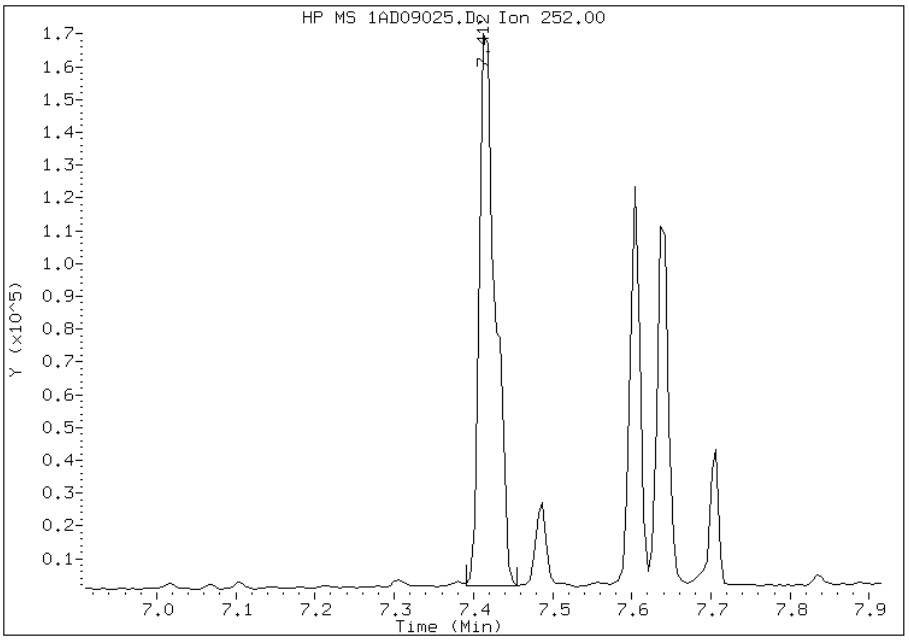
Processing Integration Results

RT: 7.41

Response: 235183

Amount: 5

Conc: 386



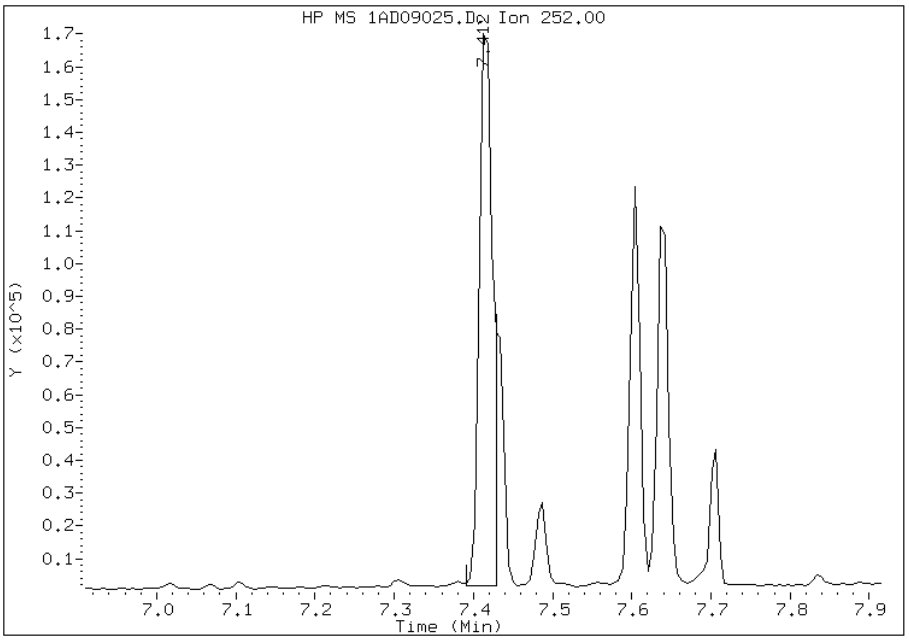
Manual Integration Results

RT: 7.41

Response: 197082

Amount: 4

Conc: 324



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 12:13
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD09025.D
Inj. Date and Time: 09-APR-2013 19:18
Instrument ID: BSMA5973.i
Client ID: CV1056A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

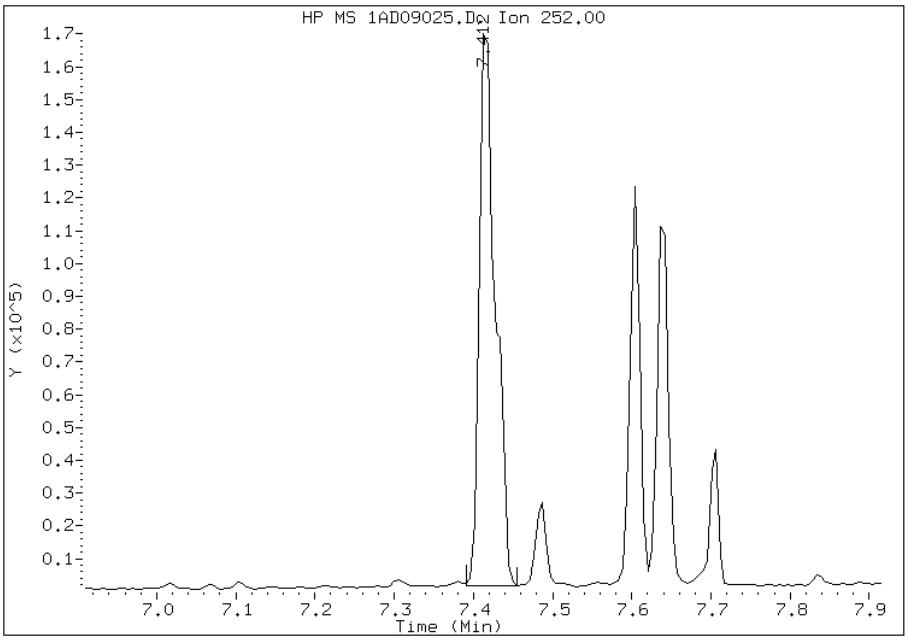
Processing Integration Results

RT: 7.41

Response: 235183

Amount: 4

Conc: 348



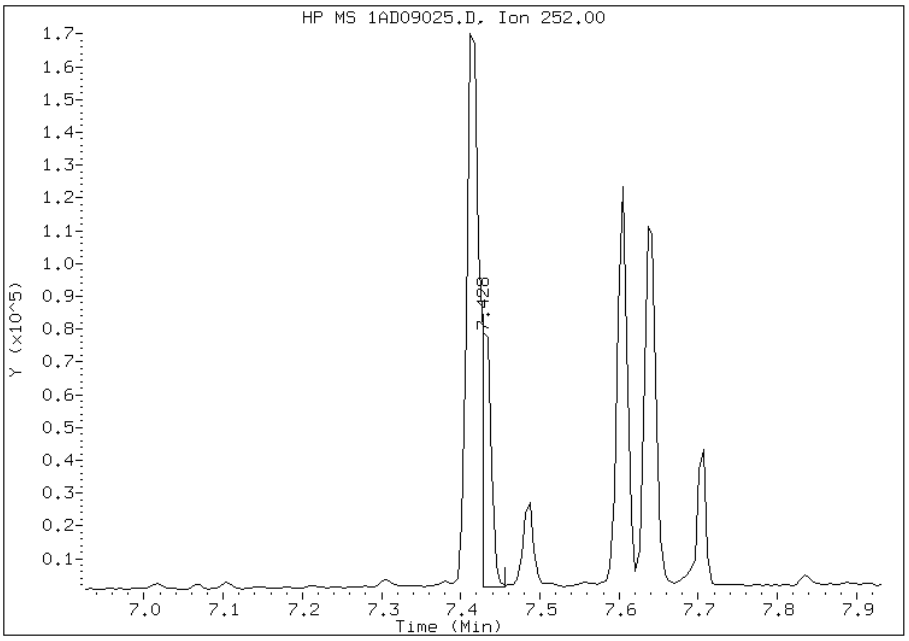
Manual Integration Results

RT: 7.43

Response: 63560

Amount: 1

Conc: 94



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 12:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD09025.D
Inj. Date and Time: 09-APR-2013 19:18
Instrument ID: BSMA5973.i
Client ID: CV1056A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

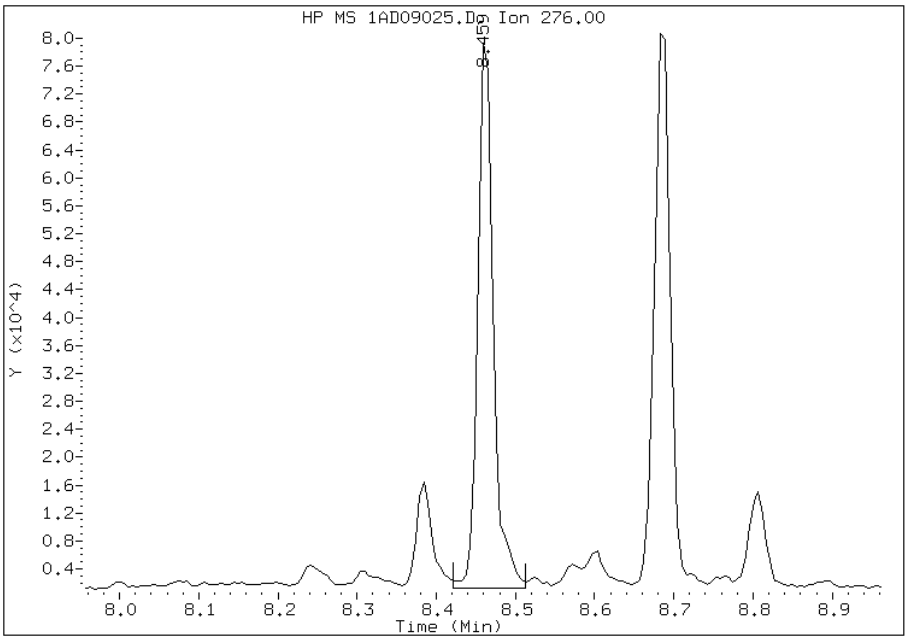
Processing Integration Results

RT: 8.46

Response: 105448

Amount: 3

Conc: 214



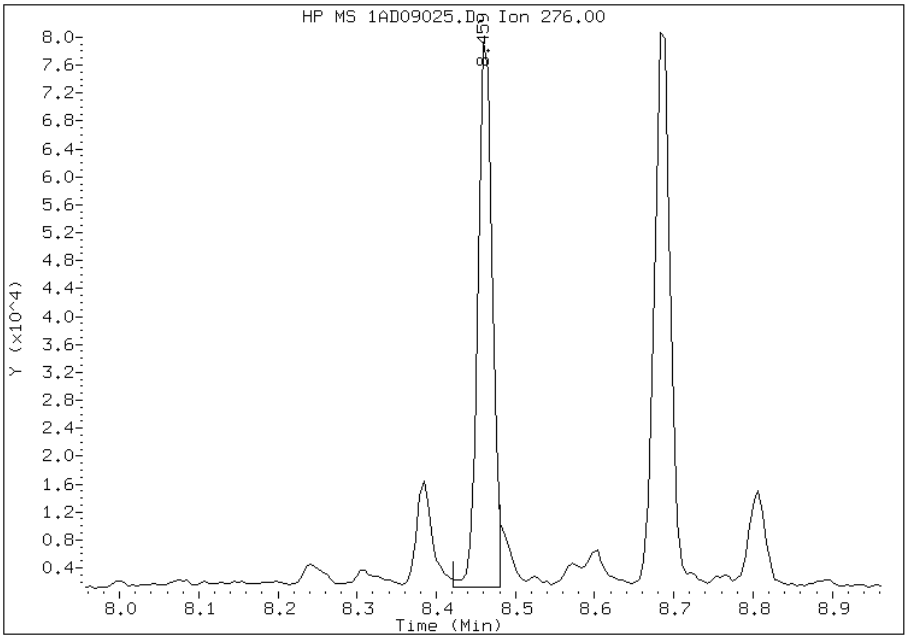
Manual Integration Results

RT: 8.46

Response: 98629

Amount: 3

Conc: 202



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 12:13
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-3 Analy Batch No.: 136269

SDG No.: 68088811-3

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 10:31 Calibration End Date: 04/09/2013 12:03 Calibration ID: 2879

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136269/4	1AD09004.D
Level 2	IC 660-136269/5	1AD09005.D
Level 3	IC 660-136269/6	1AD09006.D
Level 4	IC 660-136269/7	1AD09007.D
Level 5	ICIS 660-136269/3	1AD09003.D
Level 6	IC 660-136269/8	1AD09008.D
Level 7	IC 660-136269/9	1AD09009.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	1.3224 0.9765	1.4000 0.8017	1.3635	1.2150	1.0716	Qua	0.0080	0.5426	0.6857		0.0000				0.9993		0.9900
2-Methylnaphthalene	0.7329 0.5668	0.8103 0.4772	0.7905	0.7267	0.6335	Qua	0.0053	0.9838	1.8407		0.0000				0.9999		0.9900
1-Methylnaphthalene	0.8386 0.6150	0.9303 0.5096	0.8954	0.8140	0.7011	Qua	0.0073	0.7826	1.8237		0.0000				0.9998		0.9900
Acenaphthylene	2.2852 2.0298	2.6251 1.6808	2.7037	2.5182	2.2909	Qua	0.0115	0.2519	0.1589		0.0000				0.9994		0.9900
Acenaphthene	1.5922 1.0788	1.6354 0.8649	1.5785	1.4057	1.2316	Qua	0.0131	0.3660	0.7088		0.0000				0.9988		0.9900
Fluorene	1.8212 1.3872	1.9992 1.1679	1.9526	1.7894	1.6127	Qua	0.0081	0.3641	0.3322		0.0000				0.9995		0.9900
Phenanthrene	1.5193 1.0595	1.5667 0.8792	1.5313	1.3080	1.1973	Qua	0.0076	0.4914	0.5760		0.0000				0.9994		0.9900
Anthracene	1.3573 1.1067	1.5429 0.9179	1.5952	1.3826	1.2521	Qua	0.0084	0.4622	0.5355		0.0000				0.9995		0.9900
Carbazole	1.2628 1.0315	1.3986 0.9052	1.4241	1.2737	1.1703	Qua	0.0017	0.6266	0.4228		0.0000				0.9997		0.9900
Fluoranthene	1.4701 1.2946	1.6137 1.1364	1.7586	1.5469	1.4284	Qua	0.0017	0.5289	0.2464		0.0000				0.9999		0.9900
Pyrene	1.4282 1.4686	1.6373 1.3402	1.7458	1.6229	1.5466	Ave		1.5414			0.0000	9.0		15.0			
Benzo[a]anthracene	1.6104 1.2697	1.3097 1.2400	1.2955	1.2760	1.3387	Ave		1.3343			0.0000	9.4		15.0			
Chrysene	1.6339 1.2107	1.4418 1.1348	1.5177	1.3469	1.2400	Ave		1.3608			0.0000	13.2		15.0			
Benzo[b]fluoranthene	0.9175 1.1946	1.1320 1.1920	1.3269	1.3588	1.3681	Ave		1.2129			0.0000	13.2		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.: 680-88811-3 Analy Batch No.: 136269

SDG No.: 68088811-3

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 10:31 Calibration End Date: 04/09/2013 12:03 Calibration ID: 2879

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.3268 1.2986	1.4932 1.0881	1.5477	1.4089	1.2662	Ave		1.3471			0.0000	11.4		15.0			
Benzo[a]pyrene	0.8134 1.1999	1.0851 1.1027	1.3072	1.3135	1.2775	Lin	-0.023	1.1218			0.0000				0.9948		0.9900
Indeno[1,2,3-cd]pyrene	0.7532 1.0932	0.8646 1.1587	1.0485	1.0912	1.1534	Lin	0.0100	1.1550			0.0000				0.9990		0.9900
Dibenz(a,h)anthracene	0.7178 1.0472	0.9464 1.0187	1.1445	1.1001	1.1041	Ave		1.0113			0.0000	14.3		15.0			
Benzo[g,h,i]perylene	0.8511 1.0948	1.0645 1.0908	1.2109	1.1539	1.1604	Ave		1.0895			0.0000	10.7		15.0			
o-Terphenyl	0.7785 0.6136	0.8535 0.5258	0.8734	0.7621	0.6900	Qua	0.0032	0.9810	1.3913		0.0000				0.9999		0.9900

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-3 Analy Batch No.: 136269

SDG No.: 68088811-3

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 10:31 Calibration End Date: 04/09/2013 12:03 Calibration ID: 2879

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136269/4	1AD09004.D
Level 2	IC 660-136269/5	1AD09005.D
Level 3	IC 660-136269/6	1AD09006.D
Level 4	IC 660-136269/7	1AD09007.D
Level 5	ICIS 660-136269/3	1AD09003.D
Level 6	IC 660-136269/8	1AD09008.D
Level 7	IC 660-136269/9	1AD09009.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	Qua	10553 1127860	55648 1619928	276099	485647	872905	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Qua	5849 654719	32210 964208	160075	290460	516058	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Qua	6692 710356	36981 1029789	181314	325358	571076	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Qua	10106 1267654	56503 1835956	295444	539778	986696	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Qua	7041 673705	35202 944792	172486	301306	530481	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Qua	8054 866311	43032 1275723	213369	383564	694627	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Qua	11894 1181849	59534 1731795	287355	508104	923673	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Qua	10626 1234547	58627 1808013	299351	537109	965900	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Qua	9886 1150659	53147 1782940	267240	494781	902848	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Qua	11509 1444198	61320 2238386	330009	600925	1101924	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12437 1510231	67963 2285792	358125	646018	1181137	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	14023 1305727	54365 2115003	265739	507927	1022353	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	14228 1244973	59848 1935588	311327	536146	946973	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	8447 1370829	49060 2346142	294818	577802	1151054	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	12215 1490192	64713 2141556	343870	599091	1065277	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.: 680-88811-3 Analy Batch No.: 136269

SDG No.: 68088811-3

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 10:31 Calibration End Date: 04/09/2013 12:03 Calibration ID: 2879

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Lin	7488 1376984	47028 2170224	290438	558538	1074806	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Lin	6934 1254537	37472 2280613	232949	463994	970417	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	6608 1201661	41017 2004976	254287	467797	928898	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	7835 1256283	46132 2146933	269029	490640	976266	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Qua	6095 684444	32431 1035762	163893	296051	532318	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Qua = Quadratic ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 09-APR-2013 10:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 10:31 Cal File: 1AD09003.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

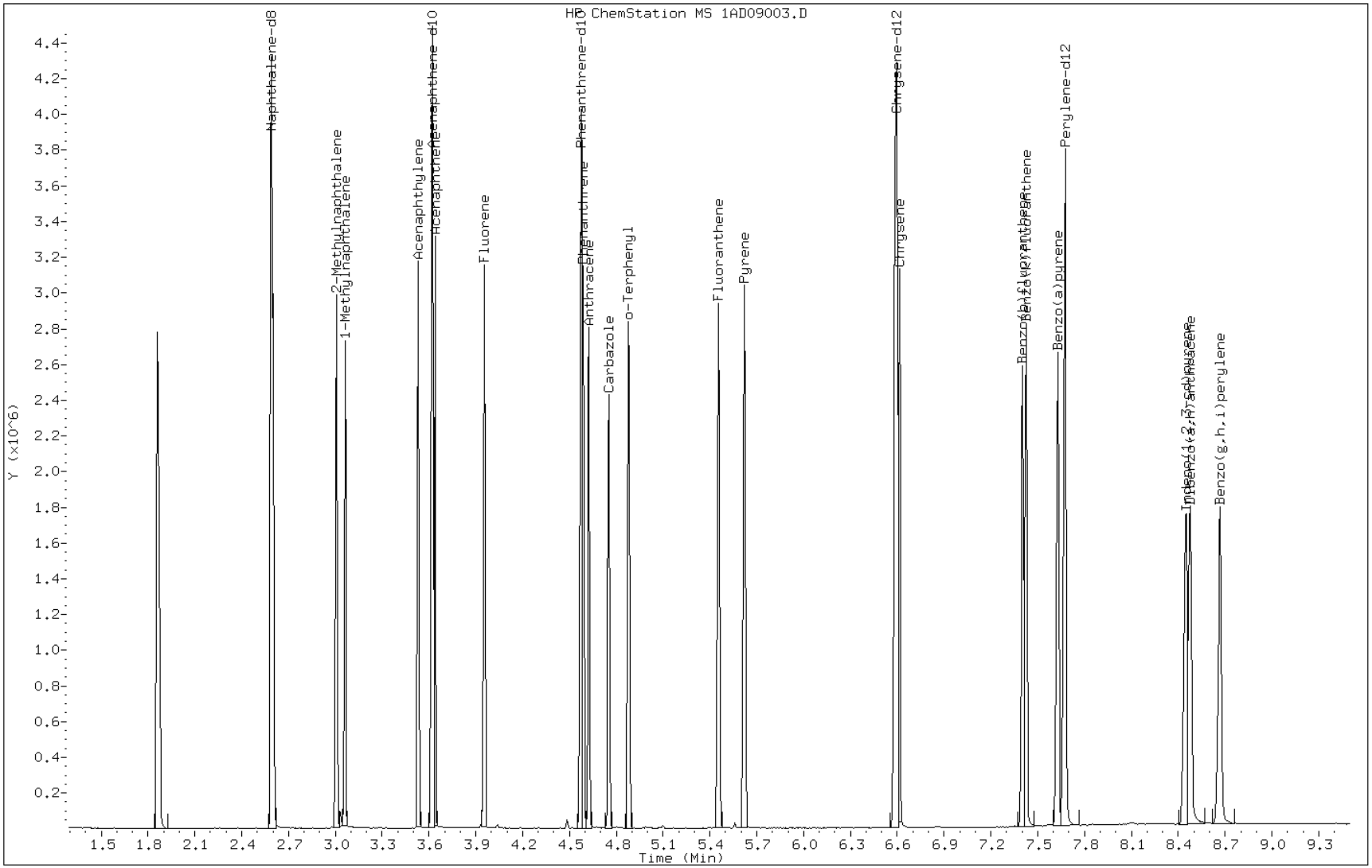
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.591	2.591	(1.000)	1629167	40.0000	
*	6 Acenaphthene-d10	164	3.622	3.622	(1.000)	861420	40.0000	
*	10 Phenanthrene-d10	188	4.573	4.573	(1.000)	1542880	40.0000	
$	14 o-Terphenyl	230	4.877	4.877	(1.067)	532318	20.0000	20.6392
*	18 Chrysene-d12	240	6.597	6.597	(1.000)	1527423	40.0000	
*	23 Perylene-d12	264	7.676	7.676	(1.000)	1682694	40.0000	
	2 Naphthalene	128	2.602	2.602	(1.004)	872905	20.0000	19.9575
	3 2-Methylnaphthalene	141	3.008	3.008	(1.161)	516058	20.0000	20.4343
	4 1-Methylnaphthalene	142	3.061	3.061	(1.181)	571076	20.0000	20.8811
	5 Acenaphthylene	152	3.531	3.531	(0.975)	986696	20.0000	20.7921
	7 Acenaphthene	154	3.638	3.638	(1.004)	530481	20.0000	20.9287
	9 Fluorene	166	3.953	3.953	(1.091)	694627	20.0000	21.2067
	11 Phenanthrene	178	4.589	4.589	(1.004)	923673	20.0000	20.2700
	12 Anthracene	178	4.626	4.626	(1.012)	965900	20.0000	20.4153
	13 Carbazole	167	4.754	4.754	(1.040)	902848	20.0000	20.2782
	15 Fluoranthene	202	5.454	5.454	(1.193)	1101924	20.0000	20.9677
	16 Pyrene	202	5.619	5.619	(0.852)	1181137	20.0000	20.6200
	17 Benzo(a)anthracene	228	6.581	6.581	(0.998)	1022353	20.0000	20.2292
	19 Chrysene	228	6.613	6.613	(1.002)	946973	20.0000	19.8173
	20 Benzo(b)fluoranthene	252	7.403	7.403	(0.965)	1151054	20.0000	23.6577
	21 Benzo(k)fluoranthene	252	7.425	7.425	(0.967)	1065277	20.0000	20.0712
	22 Benzo(a)pyrene	252	7.628	7.628	(0.994)	1074806	20.0000	22.9367
	24 Indeno(1,2,3-cd)pyrene	276	8.450	8.450	(1.101)	970417	20.0000	22.2782
	25 Dibenzo(a,h)anthracene	278	8.477	8.477	(1.104)	928898	20.0000	23.9724
	26 Benzo(g,h,i)perylene	276	8.669	8.669	(1.129)	976266	20.0000	23.2995

Data File: 1AD09003.D

Date: 09-APR-2013 10:31

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1531401 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09004.D
Lab Smp Id: IC-1531396
Inj Date : 09-APR-2013 10:48
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 10:31 Cal File: 1AD09003.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

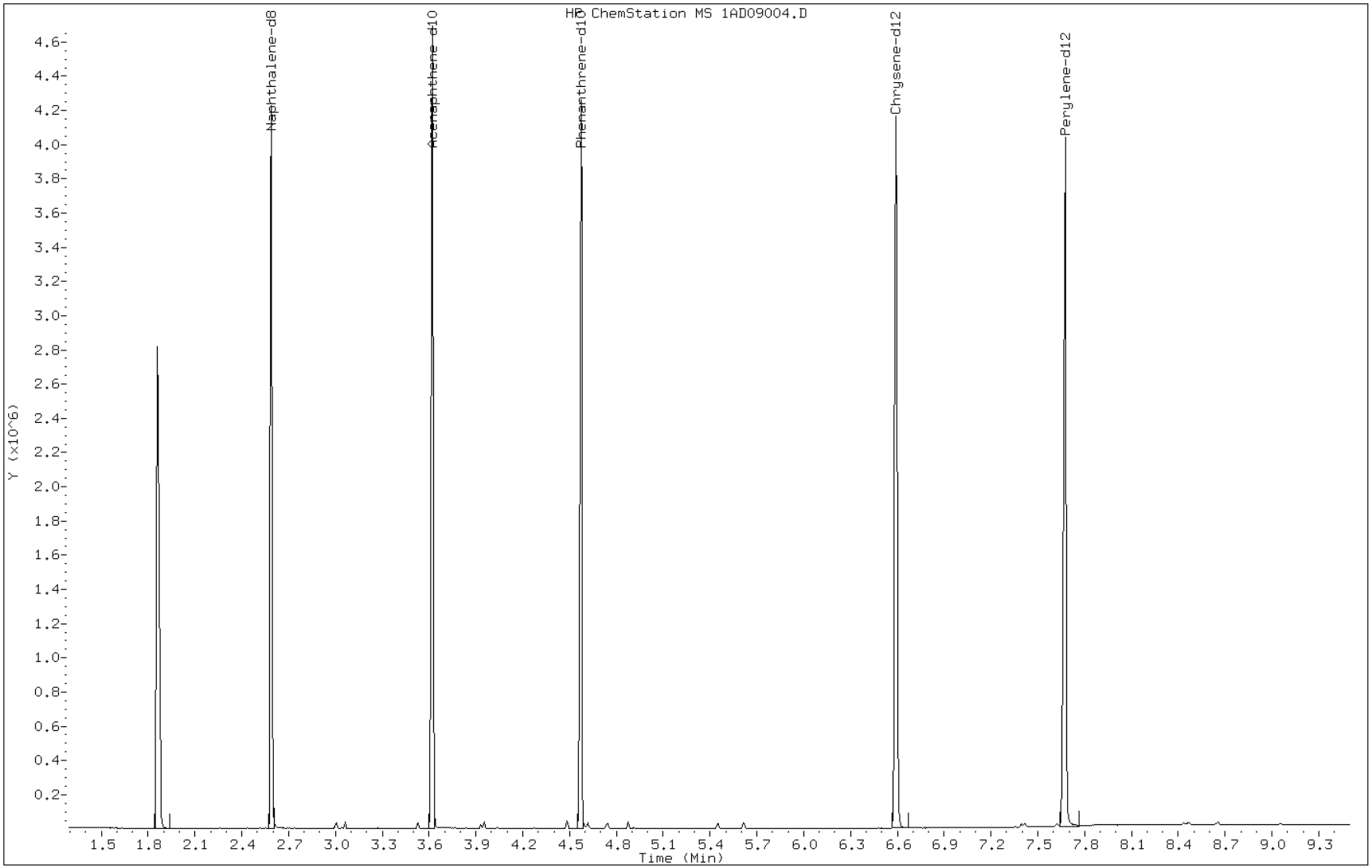
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.591	2.591	(1.000)	1596037	40.0000	
*	6 Acenaphthene-d10	164	3.621	3.622	(1.000)	884461	40.0000	
*	10 Phenanthrene-d10	188	4.572	4.573	(1.000)	1565756	40.0000	
$	14 o-Terphenyl	230	4.877	4.877	(1.067)	6095	0.20000	0.2328
*	18 Chrysene-d12	240	6.591	6.597	(1.000)	1741599	40.0000	
*	23 Perylene-d12	264	7.675	7.676	(1.000)	1841229	40.0000	
	2 Naphthalene	128	2.601	2.602	(1.004)	10553	0.20000	0.3869
	3 2-Methylnaphthalene	141	3.007	3.008	(1.161)	5849	0.20000	0.4505
	4 1-Methylnaphthalene	142	3.061	3.061	(1.181)	6692	0.20000	0.3937
	5 Acenaphthylene	152	3.531	3.531	(0.975)	10106	0.20000	0.6062
	7 Acenaphthene	154	3.638	3.638	(1.004)	7041	0.20000	0.4297
	9 Fluorene	166	3.953	3.953	(1.091)	8054	0.20000	0.5455
	11 Phenanthrene	178	4.588	4.589	(1.004)	11894	0.20000	0.4266
	12 Anthracene	178	4.620	4.626	(1.011)	10626	0.20000	0.3310
	13 Carbazole	167	4.748	4.754	(1.039)	9886	0.20000	0.2187
	15 Fluoranthene	202	5.448	5.454	(1.192)	11509	0.20000	0.2157
	16 Pyrene	202	5.619	5.619	(0.853)	12437	0.20000	0.1904
	17 Benzo(a)anthracene	228	6.586	6.581	(0.999)	14023	0.20000	0.2433
	19 Chrysene	228	6.607	6.613	(1.002)	14228	0.20000	0.2611
	20 Benzo(b)fluoranthene	252	7.398	7.403	(0.964)	8447	0.20000	0.1586
	21 Benzo(k)fluoranthene	252	7.414	7.425	(0.966)	12215	0.20000	0.2103
	22 Benzo(a)pyrene	252	7.622	7.628	(0.993)	7488	0.20000	0.1460
	24 Indeno(1,2,3-cd)pyrene	276	8.434	8.450	(1.099)	6934	0.20000	0.2440
	25 Dibenzo(a,h)anthracene	278	8.466	8.477	(1.103)	6608	0.20000	0.1558
	26 Benzo(g,h,i)perylene	276	8.653	8.669	(1.127)	7835	0.20000	0.1708

Data File: 1AD09004.D

Date: 09-APR-2013 10:48

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531396 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09005.D
Lab Smp Id: IC-1531398
Inj Date : 09-APR-2013 11:04
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 10:48 Cal File: 1AD09004.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.591	2.591	(1.000)	1589999	40.0000	
* 6 Acenaphthene-d10	164	3.622	3.622	(1.000)	860976	40.0000	
* 10 Phenanthrene-d10	188	4.573	4.573	(1.000)	1519965	40.0000	
$ 14 o-Terphenyl	230	4.877	4.877	(1.067)	32431	1.00000	1.2362
* 18 Chrysene-d12	240	6.592	6.597	(1.000)	1660335	40.0000	
* 23 Perylene-d12	264	7.676	7.676	(1.000)	1733524	40.0000	
2 Naphthalene	128	2.602	2.602	(1.004)	55648	1.00000	1.1485
3 2-Methylnaphthalene	141	3.008	3.008	(1.161)	32210	1.00000	1.1998
4 1-Methylnaphthalene	142	3.061	3.061	(1.181)	36981	1.00000	1.1515
5 Acenaphthylene	152	3.531	3.531	(0.975)	56503	1.00000	1.2231
7 Acenaphthene	154	3.638	3.638	(1.004)	35202	1.00000	1.1716
9 Fluorene	166	3.953	3.953	(1.091)	43032	1.00000	1.2494
11 Phenanthrene	178	4.589	4.589	(1.004)	59534	1.00000	1.1943
12 Anthracene	178	4.621	4.626	(1.011)	58627	1.00000	1.0870
13 Carbazole	167	4.749	4.754	(1.039)	53147	1.00000	1.1966
15 Fluoranthene	202	5.449	5.454	(1.192)	61320	1.00000	1.1576
16 Pyrene	202	5.614	5.619	(0.852)	67963	1.00000	1.0866
17 Benzo(a)anthracene	228	6.581	6.581	(0.998)	54365	1.00000	0.9937
19 Chrysene	228	6.608	6.613	(1.002)	59848	1.00000	1.1159
20 Benzo(b)fluoranthene	252	7.393	7.403	(0.963)	49060	1.00000	0.9825
21 Benzo(k)fluoranthene	252	7.414	7.425	(0.966)	64713	1.00000	1.1596
22 Benzo(a)pyrene	252	7.622	7.628	(0.993)	47028	1.00000	0.9844
24 Indeno(1,2,3-cd)pyrene	276	8.434	8.450	(1.099)	37472	1.00000	0.9251(H)
25 Dibenzo(a,h)anthracene	278	8.466	8.477	(1.103)	41017	1.00000	1.0153(M)
26 Benzo(g,h,i)perylene	276	8.653	8.669	(1.127)	46132	1.00000	1.0614(M)

QC Flag Legend

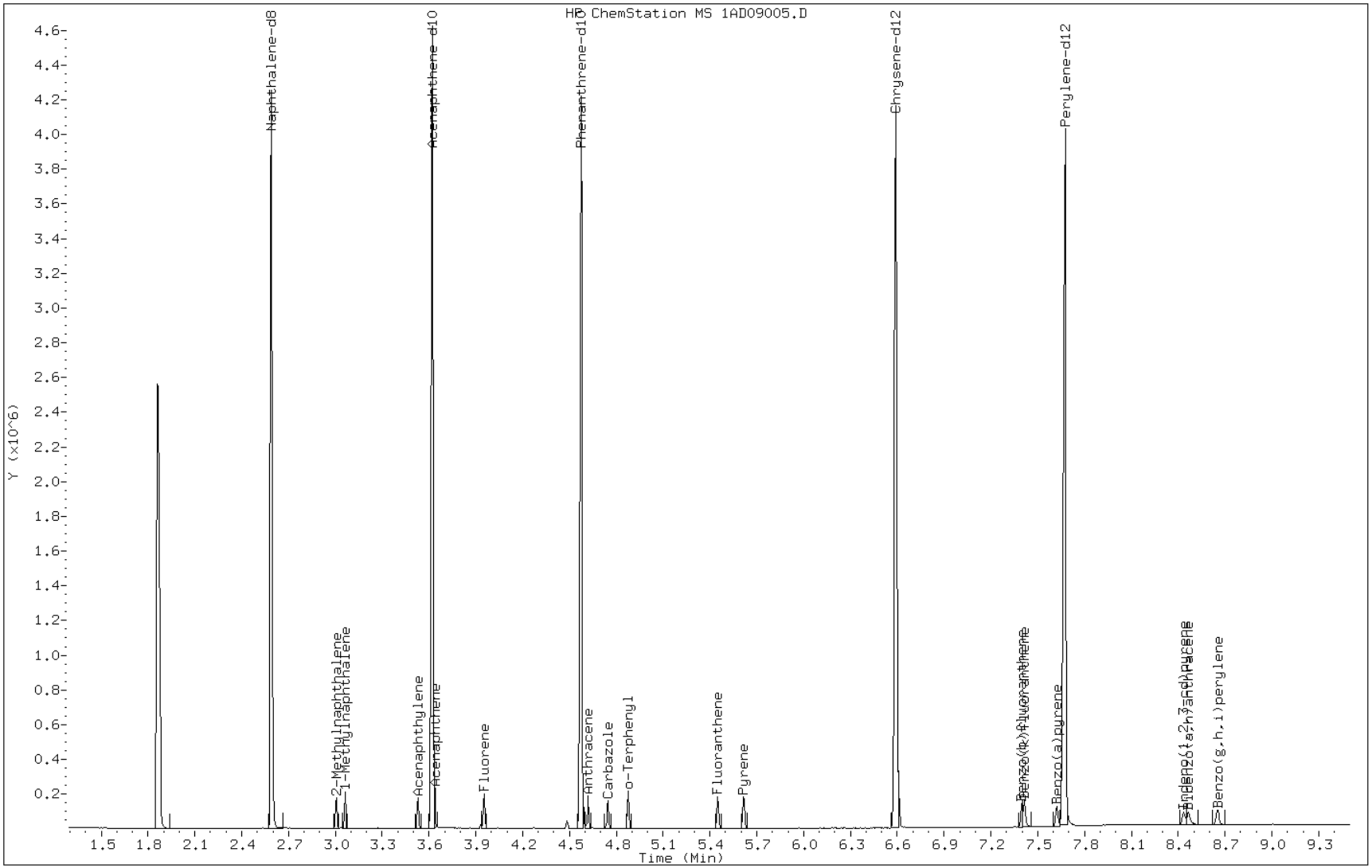
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AD09005.D

Date: 09-APR-2013 11:04

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531398 Operator: SCC



Manual Integration Report

Data File: 1AD09005.D
Inj. Date and Time: 09-APR-2013 11:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/09/2013

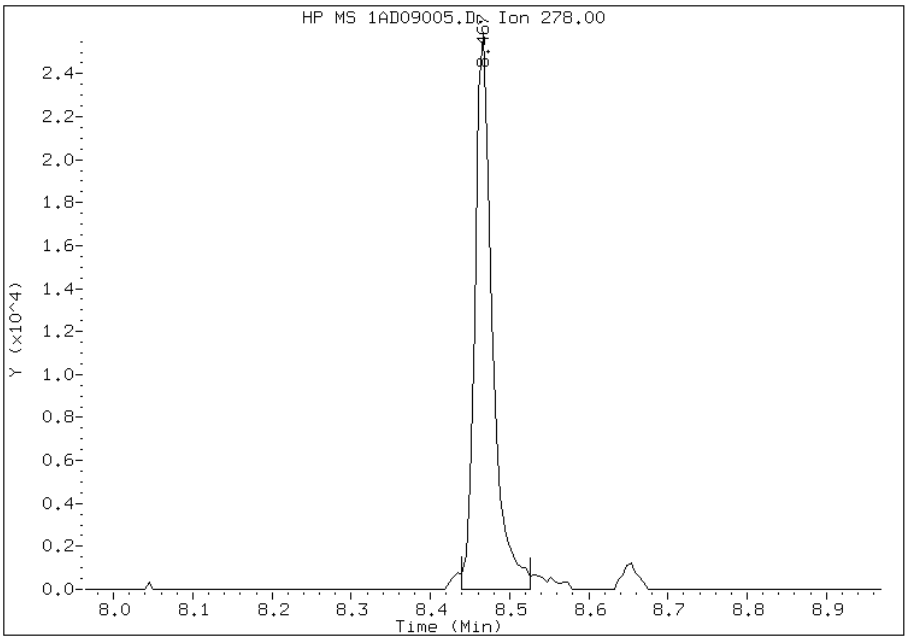
Processing Integration Results

RT: 8.47

Response: 39194

Amount: 1

Conc: 1



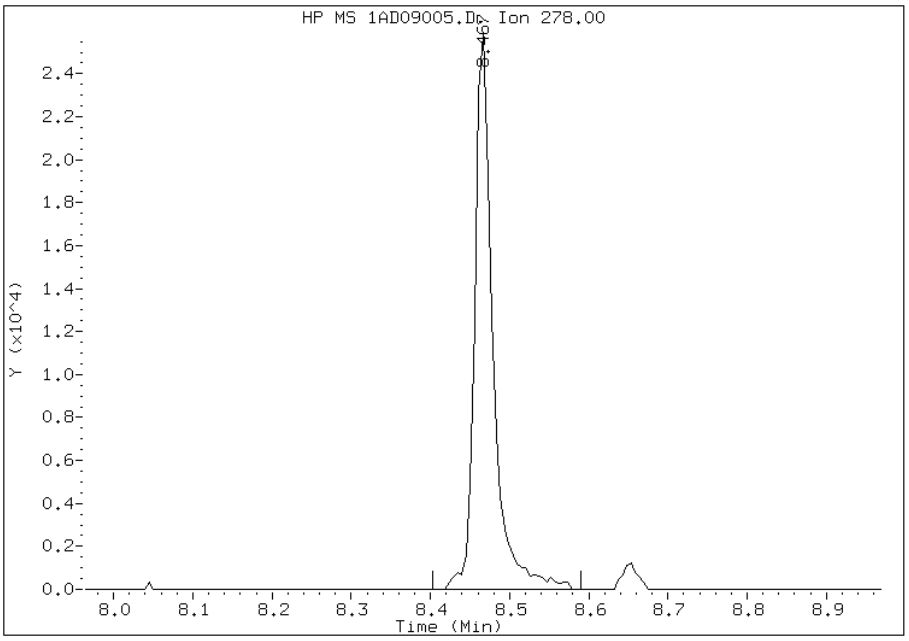
Manual Integration Results

RT: 8.47

Response: 41017

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 12:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD09005.D
Inj. Date and Time: 09-APR-2013 11:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/09/2013

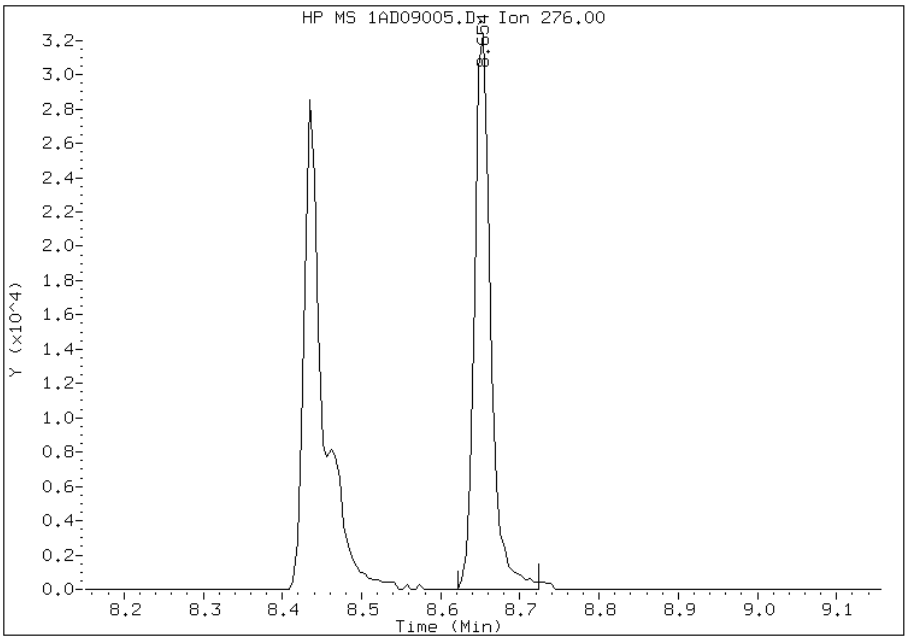
Processing Integration Results

RT: 8.65

Response: 45759

Amount: 1

Conc: 1



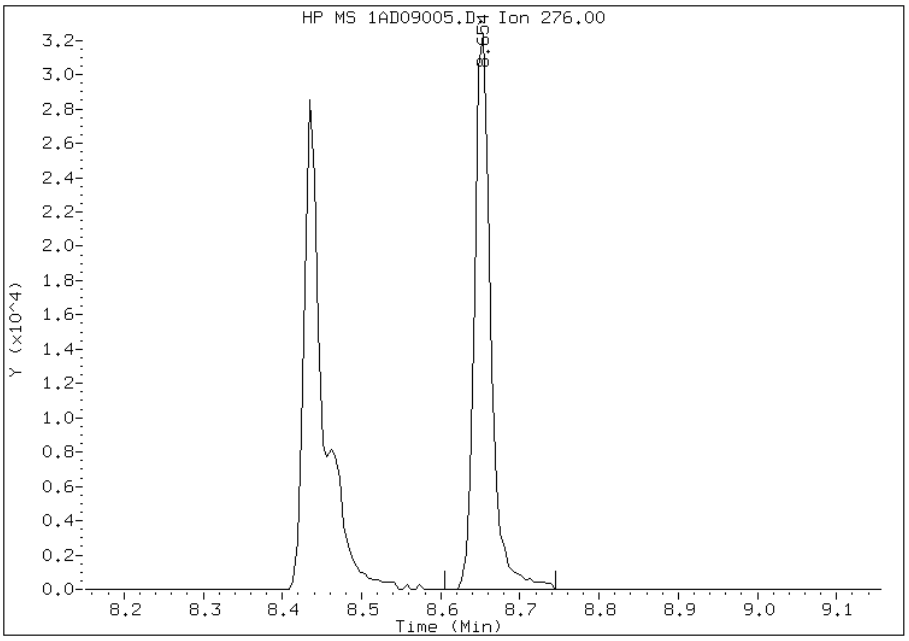
Manual Integration Results

RT: 8.65

Response: 46132

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 12:31
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09006.D
Lab Smp Id: IC-1531399
Inj Date : 09-APR-2013 11:19
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 11:04 Cal File: 1AD09005.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.587	2.591	(1.000)	1619963	40.0000	
*	6 Acenaphthene-d10	164	3.618	3.622	(1.000)	874198	40.0000	
*	10 Phenanthrene-d10	188	4.574	4.573	(1.000)	1501226	40.0000	
$	14 o-Terphenyl	230	4.879	4.877	(1.067)	163893	5.00000	6.1874
*	18 Chrysene-d12	240	6.593	6.597	(1.000)	1641042	40.0000	
*	23 Perylene-d12	264	7.672	7.676	(1.000)	1777421	40.0000	
	2 Naphthalene	128	2.598	2.602	(1.004)	276099	5.00000	5.2441
	3 2-Methylnaphthalene	141	3.004	3.008	(1.161)	160075	5.00000	5.2349
	4 1-Methylnaphthalene	142	3.063	3.061	(1.184)	181314	5.00000	5.2534
	5 Acenaphthylene	152	3.527	3.531	(0.975)	295444	5.00000	4.8504
	7 Acenaphthene	154	3.634	3.638	(1.004)	172486	5.00000	5.2897
	9 Fluorene	166	3.949	3.953	(1.092)	213369	5.00000	5.1212
	11 Phenanthrene	178	4.585	4.589	(1.002)	287355	5.00000	5.3602
	12 Anthracene	178	4.622	4.626	(1.011)	299351	5.00000	5.3674
	13 Carbazole	167	4.750	4.754	(1.039)	267240	5.00000	6.0094
	15 Fluoranthene	202	5.450	5.454	(1.191)	330009	5.00000	6.2143
	16 Pyrene	202	5.616	5.619	(0.852)	358125	5.00000	5.7292
	17 Benzo(a)anthracene	228	6.582	6.581	(0.998)	265739	5.00000	4.9027
	19 Chrysene	228	6.609	6.613	(1.002)	311327	5.00000	5.7795
	20 Benzo(b)fluoranthene	252	7.394	7.403	(0.964)	294818	5.00000	5.6461
	21 Benzo(k)fluoranthene	252	7.416	7.425	(0.967)	343870	5.00000	5.8943
	22 Benzo(a)pyrene	252	7.619	7.628	(0.993)	290438	5.00000	5.8709
	24 Indeno(1,2,3-cd)pyrene	276	8.436	8.450	(1.100)	232949	5.00000	5.1117
	25 Dibenzo(a,h)anthracene	278	8.462	8.477	(1.103)	254287	5.00000	6.0020(M)
	26 Benzo(g,h,i)perylene	276	8.649	8.669	(1.127)	269029	5.00000	5.9013

QC Flag Legend

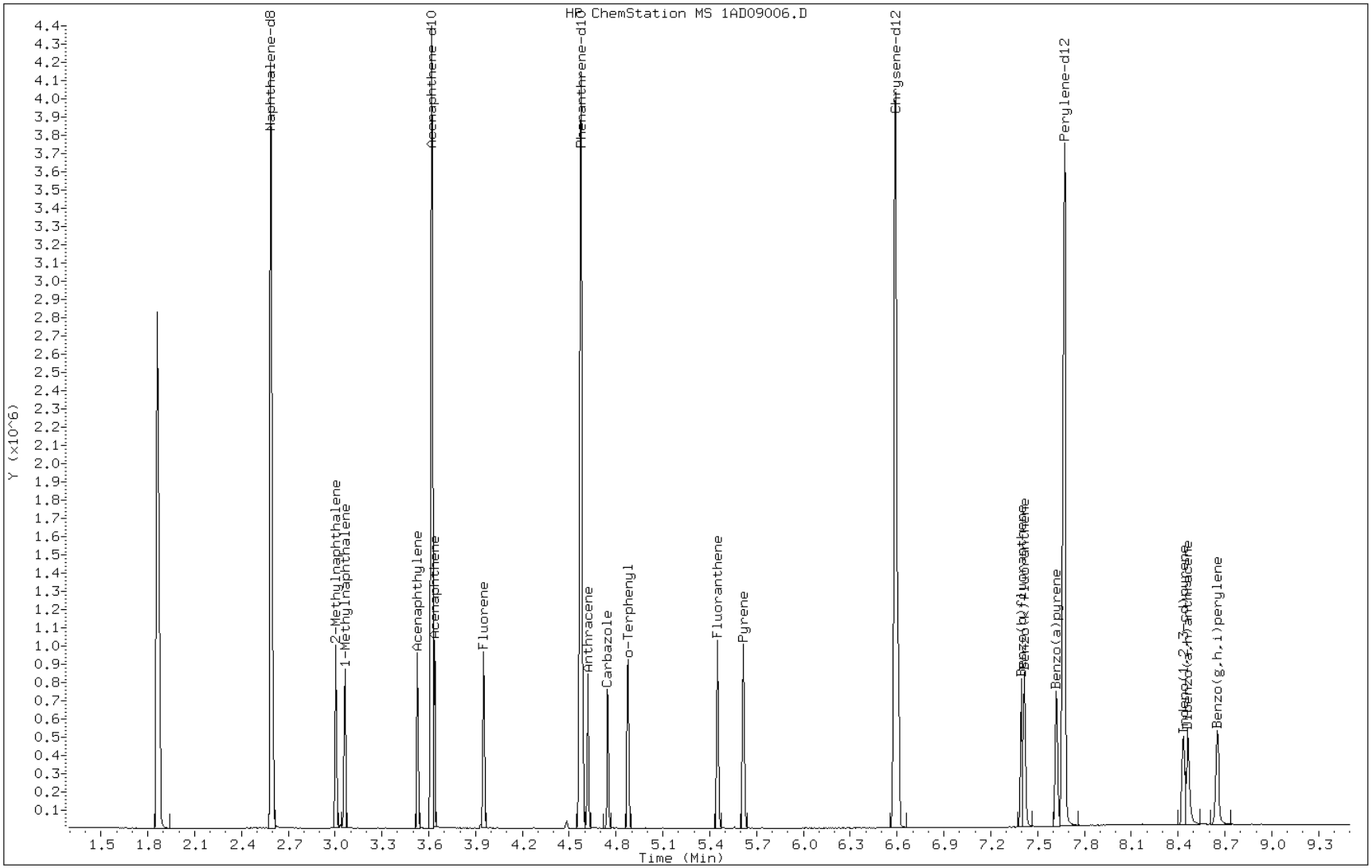
M - Compound response manually integrated.

Data File: 1AD09006.D

Date: 09-APR-2013 11:19

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531399 Operator: SCC



Manual Integration Report

Data File: 1AD09006.D
Inj. Date and Time: 09-APR-2013 11:19
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/09/2013

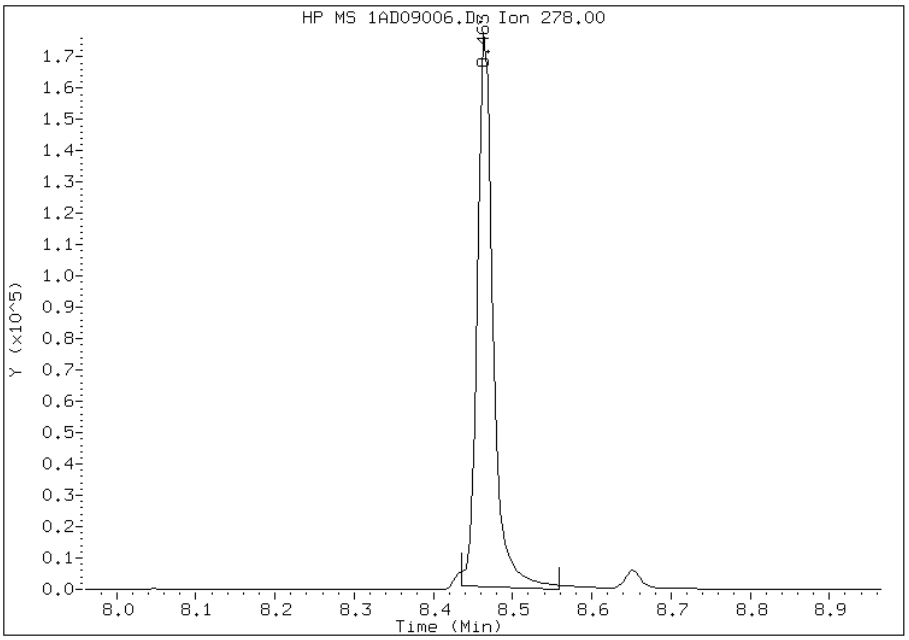
Processing Integration Results

RT: 8.46

Response: 243239

Amount: 6

Conc: 6



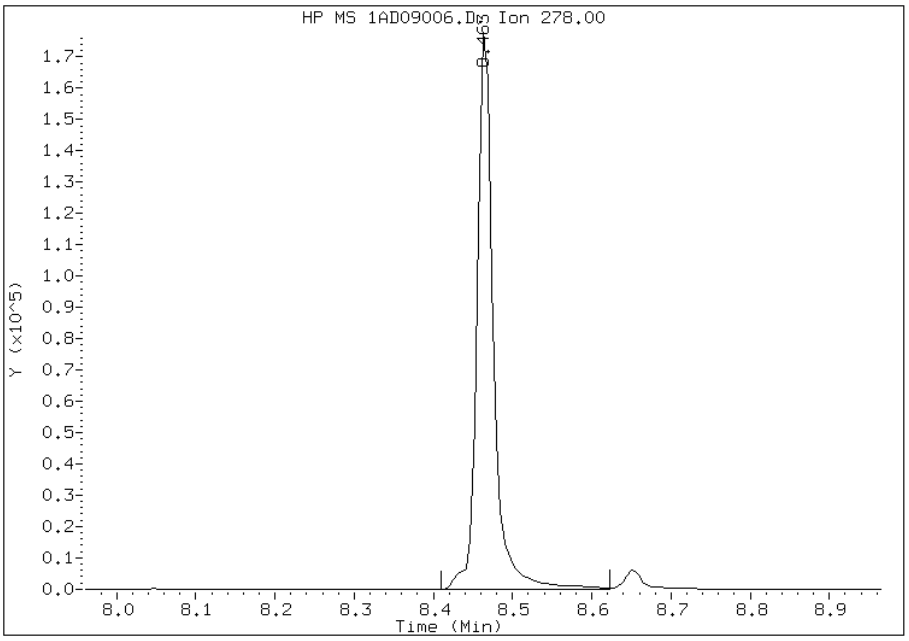
Manual Integration Results

RT: 8.46

Response: 254287

Amount: 6

Conc: 6



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 12:31
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09007.D
Lab Smp Id: IC-1531400
Inj Date : 09-APR-2013 11:33
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 11:19 Cal File: 1AD09006.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

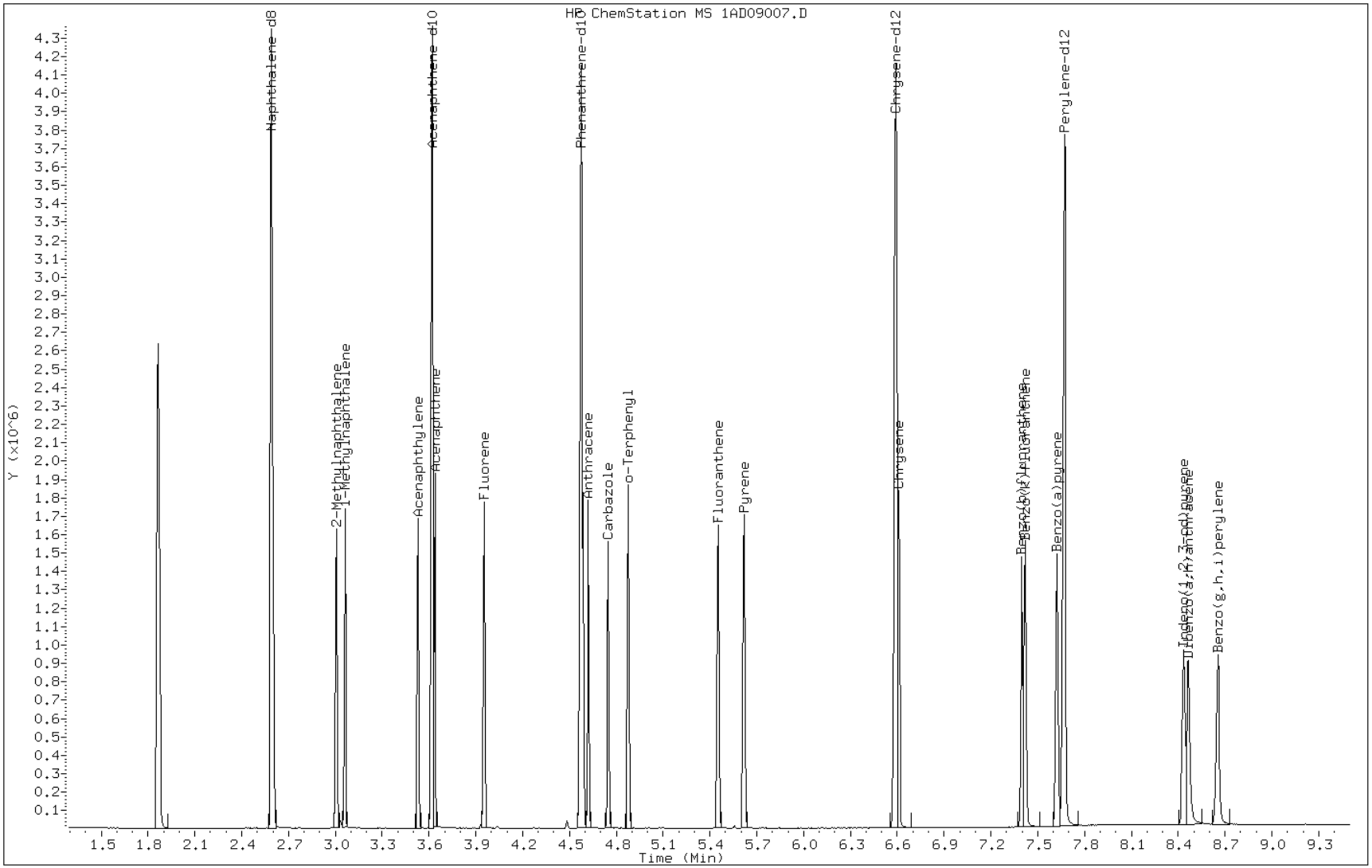
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.591	2.591	(1.000)	1598776	40.0000	
*	6 Acenaphthene-d10	164	3.622	3.622	(1.000)	857411	40.0000	
*	10 Phenanthrene-d10	188	4.573	4.573	(1.000)	1553879	40.0000	
$	14 o-Terphenyl	230	4.877	4.877	(1.067)	296051	10.0000	10.6256
*	18 Chrysene-d12	240	6.591	6.597	(1.000)	1592296	40.0000	
*	23 Perylene-d12	264	7.670	7.676	(1.000)	1700858	40.0000	
	2 Naphthalene	128	2.602	2.602	(1.004)	485647	10.0000	9.9295
	3 2-Methylnaphthalene	141	3.008	3.008	(1.161)	290460	10.0000	10.2364
	4 1-Methylnaphthalene	142	3.061	3.061	(1.181)	325358	10.0000	10.3683
	5 Acenaphthylene	152	3.531	3.531	(0.975)	539778	10.0000	9.6764
	7 Acenaphthene	154	3.638	3.638	(1.004)	301306	10.0000	10.2149
	9 Fluorene	166	3.953	3.953	(1.091)	383564	10.0000	10.0269
	11 Phenanthrene	178	4.589	4.589	(1.004)	508104	10.0000	9.6197
	12 Anthracene	178	4.621	4.626	(1.011)	537109	10.0000	9.8618
	13 Carbazole	167	4.749	4.754	(1.039)	494781	10.0000	10.6152
	15 Fluoranthene	202	5.454	5.454	(1.193)	600925	10.0000	10.7198
	16 Pyrene	202	5.619	5.619	(0.853)	646018	10.0000	10.5680
	17 Benzo(a)anthracene	228	6.581	6.581	(0.998)	507927	10.0000	9.6156
	19 Chrysene	228	6.607	6.613	(1.002)	536146	10.0000	10.0748
	20 Benzo(b)fluoranthene	252	7.398	7.403	(0.964)	577802	10.0000	11.5370
	21 Benzo(k)fluoranthene	252	7.419	7.425	(0.967)	599091	10.0000	10.5145
	22 Benzo(a)pyrene	252	7.622	7.628	(0.994)	558538	10.0000	11.5949
	24 Indeno(1,2,3-cd)pyrene	276	8.434	8.450	(1.100)	463994	10.0000	10.4559
	25 Dibenzo(a,h)anthracene	278	8.466	8.477	(1.104)	467797	10.0000	11.2448
	26 Benzo(g,h,i)perylene	276	8.653	8.669	(1.128)	490640	10.0000	10.9587

Data File: 1AD09007.D

Date: 09-APR-2013 11:33

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531400 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09008.D
Lab Smp Id: IC-1531402
Inj Date : 09-APR-2013 11:49
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 11:33 Cal File: 1AD09007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

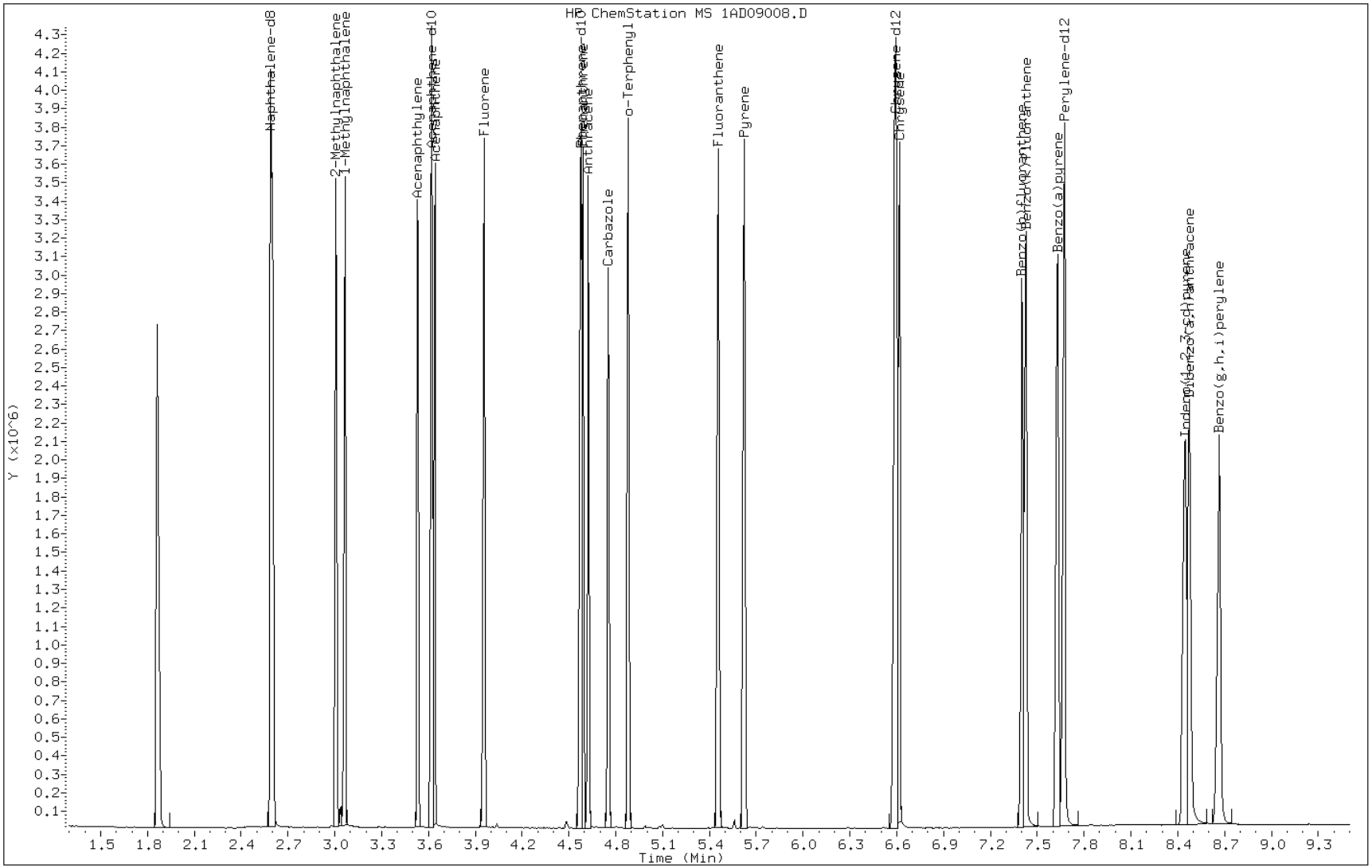
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.589	2.591	(1.000)	1540056	40.0000	
*	6 Acenaphthene-d10	164	3.620	3.622	(1.000)	832688	40.0000	
*	10 Phenanthrene-d10	188	4.576	4.573	(1.000)	1487352	40.0000	
$	14 o-Terphenyl	230	4.880	4.877	(1.067)	684444	30.0000	25.3467
*	18 Chrysene-d12	240	6.595	6.597	(1.000)	1371124	40.0000	
*	23 Perylene-d12	264	7.674	7.676	(1.000)	1530063	40.0000	
	2 Naphthalene	128	2.600	2.602	(1.004)	1127860	30.0000	29.9432
	3 2-Methylnaphthalene	141	3.006	3.008	(1.161)	654719	30.0000	29.9345
	4 1-Methylnaphthalene	142	3.064	3.061	(1.184)	710356	30.0000	30.1606
	5 Acenaphthylene	152	3.529	3.531	(0.975)	1267654	30.0000	30.7339
	7 Acenaphthene	154	3.641	3.638	(1.006)	673705	30.0000	30.1389
	9 Fluorene	166	3.956	3.953	(1.093)	866311	30.0000	29.7705
	11 Phenanthrene	178	4.592	4.589	(1.003)	1181849	30.0000	29.2539
	12 Anthracene	178	4.624	4.626	(1.011)	1234547	30.0000	29.3561
	13 Carbazole	167	4.752	4.754	(1.039)	1150659	30.0000	25.5465
	15 Fluoranthene	202	5.457	5.454	(1.193)	1444198	30.0000	26.6621
	16 Pyrene	202	5.623	5.619	(0.853)	1510231	30.0000	28.5401
	17 Benzo(a)anthracene	228	6.584	6.581	(0.998)	1305727	30.0000	28.4543
	19 Chrysene	228	6.616	6.613	(1.003)	1244973	30.0000	26.9339
	20 Benzo(b)fluoranthene	252	7.401	7.403	(0.965)	1370829	30.0000	29.7706
	21 Benzo(k)fluoranthene	252	7.428	7.425	(0.968)	1490192	30.0000	28.9795
	22 Benzo(a)pyrene	252	7.631	7.628	(0.994)	1376984	30.0000	31.2508
	24 Indeno(1,2,3-cd)pyrene	276	8.448	8.450	(1.101)	1254537	30.0000	31.4946
	25 Dibenzo(a,h)anthracene	278	8.475	8.477	(1.104)	1201661	30.0000	31.5452
	26 Benzo(g,h,i)perylene	276	8.667	8.669	(1.129)	1256283	30.0000	30.6309

Data File: 1AD09008.D

Date: 09-APR-2013 11:49

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531402 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09009.D
Lab Smp Id: IC-1531403
Inj Date : 09-APR-2013 12:03
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 11:49 Cal File: 1AD09008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.591	2.591	(1.000)	1616496	40.0000	
*	6 Acenaphthene-d10	164	3.622	3.622	(1.000)	873865	40.0000	
*	10 Phenanthrene-d10	188	4.572	4.573	(1.000)	1575809	40.0000	
$	14 o-Terphenyl	230	4.882	4.877	(1.068)	1035762	50.0000	36.1399
*	18 Chrysene-d12	240	6.602	6.597	(1.000)	1364496	40.0000	
*	23 Perylene-d12	264	7.676	7.676	(1.000)	1574534	40.0000	
	2 Naphthalene	128	2.602	2.602	(1.004)	1619928	50.0000	46.4915
	3 2-Methylnaphthalene	141	3.007	3.008	(1.161)	964208	50.0000	48.4523
	4 1-Methylnaphthalene	142	3.066	3.061	(1.183)	1029789	50.0000	48.2198
	5 Acenaphthylene	152	3.531	3.531	(0.975)	1835956	50.0000	49.5157
	7 Acenaphthene	154	3.643	3.638	(1.006)	944792	50.0000	45.9717
	9 Fluorene	166	3.958	3.953	(1.093)	1275723	50.0000	48.8799
	11 Phenanthrene	178	4.594	4.589	(1.005)	1731795	50.0000	46.2239
	12 Anthracene	178	4.631	4.626	(1.013)	1808013	50.0000	46.1457
	13 Carbazole	167	4.759	4.754	(1.041)	1782940	50.0000	37.4205
	15 Fluoranthene	202	5.459	5.454	(1.194)	2238386	50.0000	38.9757
	16 Pyrene	202	5.630	5.619	(0.853)	2285792	50.0000	43.4140
	17 Benzo(a)anthracene	228	6.586	6.581	(0.998)	2115003	50.0000	46.3618
	19 Chrysene	228	6.623	6.613	(1.003)	1935588	50.0000	41.8553
	20 Benzo(b)fluoranthene	252	7.409	7.403	(0.965)	2346142	50.0000	49.7155
	21 Benzo(k)fluoranthene	252	7.435	7.425	(0.969)	2141556	50.0000	40.0784(M)
	22 Benzo(a)pyrene	252	7.638	7.628	(0.995)	2170224	50.0000	47.6951
	24 Indeno(1,2,3-cd)pyrene	276	8.461	8.450	(1.102)	2280613	50.0000	54.9725(A)
	25 Dibenzo(a,h)anthracene	278	8.487	8.477	(1.106)	2004976	50.0000	50.7196(A)
	26 Benzo(g,h,i)perylene	276	8.685	8.669	(1.132)	2146933	50.0000	50.5756(A)

QC Flag Legend

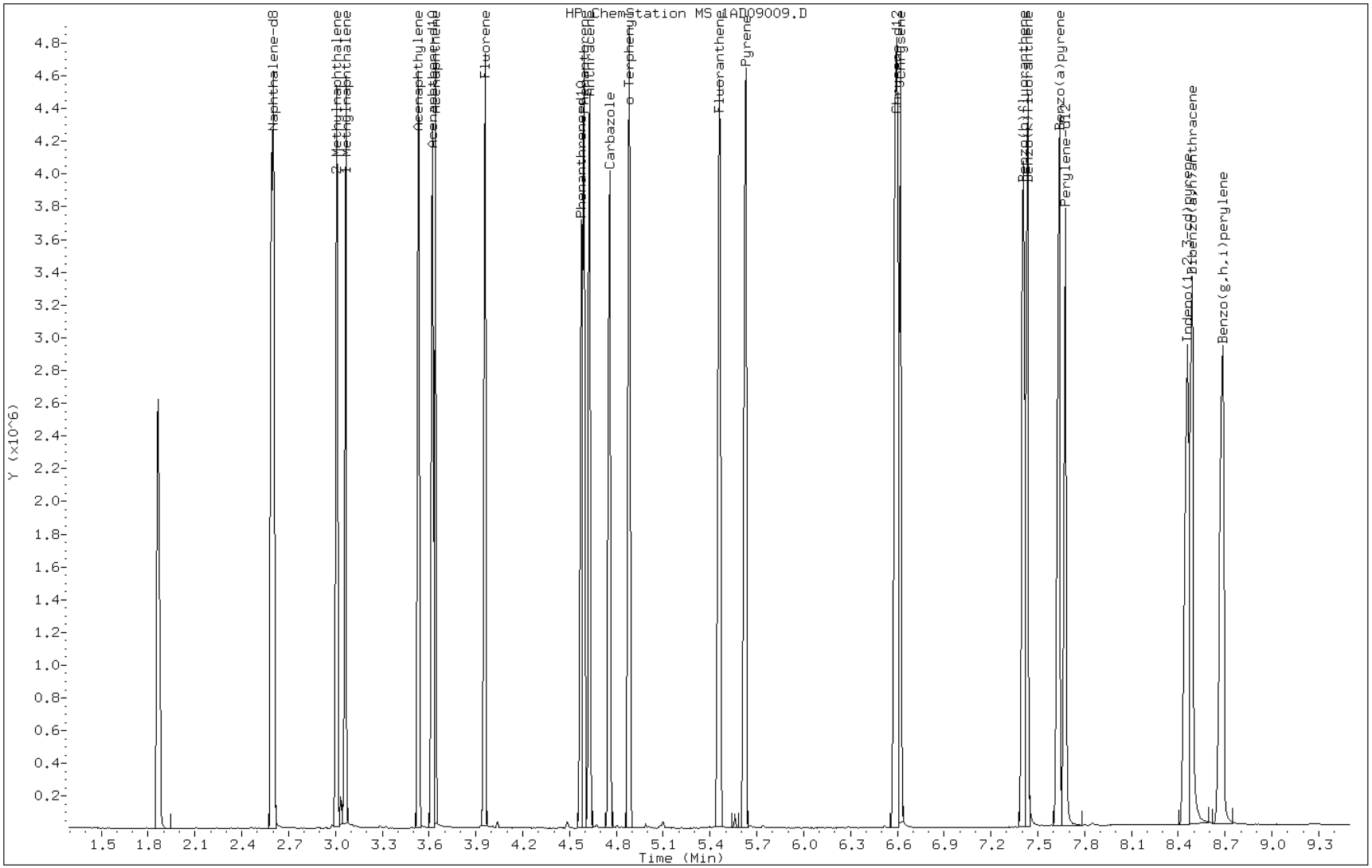
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1AD09009.D

Date: 09-APR-2013 12:03

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531403 Operator: SCC



Manual Integration Report

Data File: 1AD09009.D
Inj. Date and Time: 09-APR-2013 12:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

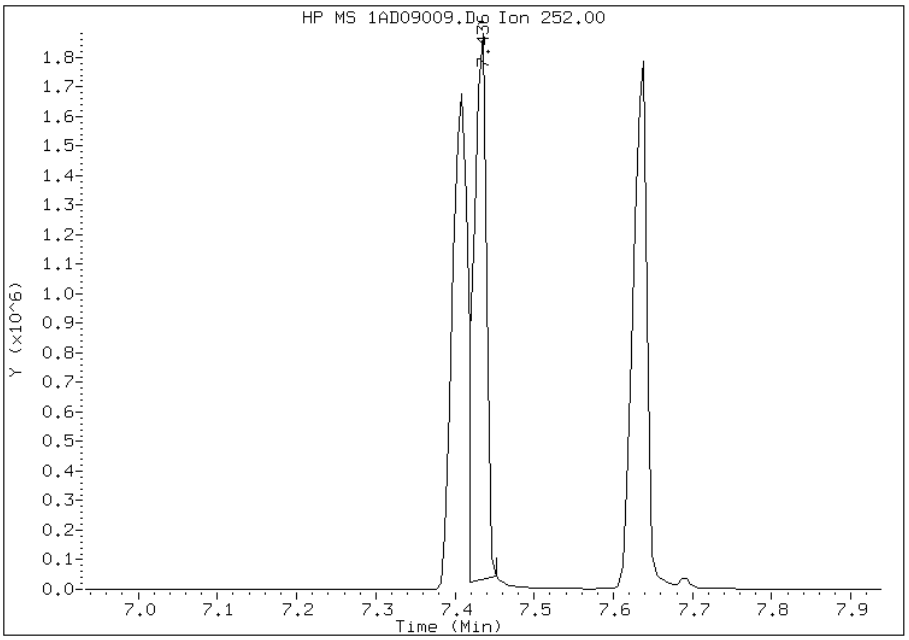
Processing Integration Results

RT: 7.44

Response: 2027064

Amount: 38

Conc: 38



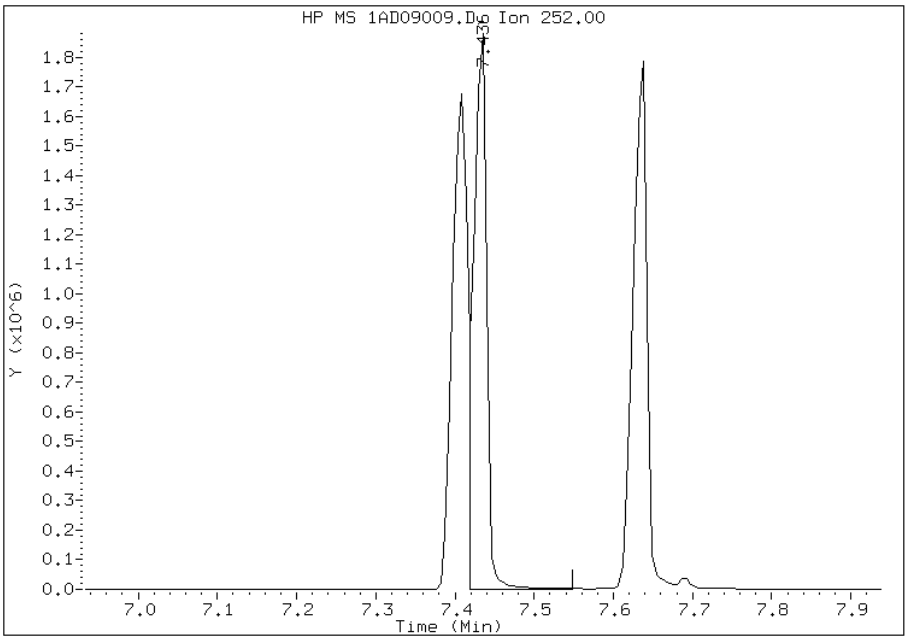
Manual Integration Results

RT: 7.44

Response: 2141556

Amount: 40

Conc: 40



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 12:32
Manual Integration Reason: Baseline Event

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-3 Analy Batch No.: 136048

SDG No.: 68088811-3

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

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136048/5	1CD02005.D
Level 2	IC 660-136048/6	1CD02006.D
Level 3	IC 660-136048/7	1CD02007.D
Level 4	IC 660-136048/8	1CD02008.D
Level 5	ICIS 660-136048/9	1CD02009.D
Level 6	IC 660-136048/10	1CD02010.D
Level 7	IC 660-136048/11	1CD02011.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	0.9951 1.0462	0.9249 1.0491	1.1511	1.0146	1.0107	Ave		1.0274			0.0000	6.7		15.0			
2-Methylnaphthalene	0.7586 0.6820	0.6817 0.7025	0.6887	0.7485	0.6335	Ave		0.6994			0.0000	6.1		15.0			
1-Methylnaphthalene	0.7248 0.6605	0.4518 0.6576	0.6481	0.6089	0.6533	Ave		0.6293			0.0000	13.6		15.0			
Acenaphthylene	1.4345 1.7430	1.5801 1.7453	1.7015	1.6743	1.7098	Ave		1.6555			0.0000	6.8		15.0			
Acenaphthene	0.8041 1.0063	1.3709 1.0300	0.9518	0.9544	1.0574	Lin		1.0254			0.0000				0.9993		0.9900
Fluorene	1.2800 1.3623	1.5080 1.3691	1.4076	1.2955	1.3459	Ave		1.3669			0.0000	5.6		15.0			
Phenanthrene	1.2753 1.1465	1.1377 1.2101	1.1311	1.1382	1.1160	Ave		1.1650			0.0000	4.9		15.0			
Anthracene	1.2299 1.2077	1.1082 1.2343	1.1512	1.1740	1.1613	Ave		1.1810			0.0000	3.9		15.0			
Carbazole	0.9389 1.0577	0.8968 1.0652	1.0685	0.9845	1.0709	Ave		1.0118			0.0000	7.1		15.0			
Fluoranthene	1.0844 1.3160	1.1991 1.4023	1.3527	1.3181	1.3335	Ave		1.2866			0.0000	8.4		15.0			
Pyrene	1.0454 1.1504	1.0946 1.1474	1.1166	1.0638	1.1380	Ave		1.1080			0.0000	3.8		15.0			
Benzo[a]anthracene	1.9586 1.1436	1.3015 1.1642	1.1246	1.1267	1.1237	Lin	0.0034	1.1590			0.0000				0.9997		0.9900
Chrysene	1.0137 1.1434	1.2130 1.1619	1.2029	1.1145	1.1295	Ave		1.1398			0.0000	5.8		15.0			
Benzo[b]fluoranthene	1.4007 1.0698	0.9300 1.1884	1.1544	1.1244	1.0480	Ave		1.1308			0.0000	12.9		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.: 680-88811-3 Analy Batch No.: 136048

SDG No.: 68088811-3

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

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9952 1.1459	1.0465 1.1495	1.1058	1.1151	1.0979	Ave		1.0937			0.0000	5.1		15.0			
Benzo[a]pyrene	1.2128 1.0446	0.9589 1.1556	1.0227	1.0341	1.0238	Ave		1.0647			0.0000	8.2		15.0			
Indeno[1,2,3-cd]pyrene	1.2338 1.0436	0.9049 1.0226	1.0384	0.9595	0.8756	Ave		1.0112			0.0000	11.7		15.0			
Dibenz(a,h)anthracene	0.9208 0.9567	0.9397 0.9834	0.8833	0.9304	0.9246	Ave		0.9341			0.0000	3.3		15.0			
Benzo[g,h,i]perylene	1.0683 1.0751	0.9692 1.0455	1.0646	1.0048	0.9970	Ave		1.0321			0.0000	4.0		15.0			
o-Terphenyl	0.8162 0.5958	0.5068 0.6604	0.5759	0.6060	0.6022	Lin	0.0181	0.6529			0.0000				0.9966		0.9900

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-3 Analy Batch No.: 136048

SDG No.: 68088811-3

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

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136048/5	1CD02005.D
Level 2	IC 660-136048/6	1CD02006.D
Level 3	IC 660-136048/7	1CD02007.D
Level 4	IC 660-136048/8	1CD02008.D
Level 5	ICIS 660-136048/9	1CD02009.D
Level 6	IC 660-136048/10	1CD02010.D
Level 7	IC 660-136048/11	1CD02011.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	2264 350333	10440 668649	65815	121970	253190	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	1726 228375	7695 447751	39376	89978	158694	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1649 221182	5100 419135	37056	73198	163647	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	2387 423924	12563 814053	70473	148174	308909	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Lin	1338 244735	10900 480392	39421	84460	191043	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	2130 331328	11990 638557	58298	114648	243174	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	3900 529536	16838 1077014	88442	194036	392252	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	3761 557837	16401 1098599	90016	200131	408192	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	2871 488550	13272 948101	83549	167822	376402	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	3316 607836	17746 1248081	105772	224705	468708	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	4087 663294	20532 1360548	109963	236267	498076	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin	7657 659379	24413 1380443	110756	250220	491852	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	3963 659226	22752 1377767	118460	247512	494376	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	5890 671785	19731 1443812	127315	261073	494109	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	4185 719552	22203 1396501	121957	258924	517620	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.: 680-88811-3 Analy Batch No.: 136048

SDG No.: 68088811-3

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

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	5100 655944	20343 1403971	112782	240110	482722	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	5188 655344	19198 1242391	114519	222795	412839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	3872 600720	19937 1194691	97409	216036	435940	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	4492 675124	20561 1270187	117403	233308	470085	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Lin	2496 275212	7501 587824	45027	103309	211673	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02005.D
Lab Smp Id: IC1
Inj Date : 02-APR-2013 13:26
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC1
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	455021	40.0000	
*	6 Acenaphthene-d10	164	4.804	4.804	(1.000)	332800	40.0000	
*	10 Phenanthrene-d10	188	5.757	5.757	(1.000)	611597	40.0000	
$	14 o-Terphenyl	230	6.004	6.004	(1.043)	2496	0.20000	0.2618
*	18 Chrysene-d12	240	7.704	7.704	(1.000)	781900	40.0000	
*	23 Perylene-d12	264	8.909	8.909	(1.000)	841000	40.0000	(H)
	2 Naphthalene	128	3.727	3.727	(1.005)	2264	0.20000	0.1937
	3 2-Methylnaphthalene	142	4.157	4.157	(1.120)	1726	0.20000	0.2169
	4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	1649	0.20000	0.2303
	5 Acenaphthylene	152	4.716	4.716	(0.982)	2387	0.20000	0.1733
	7 Acenaphthene	154	4.821	4.821	(1.004)	1338	0.20000	0.1568(Q)
	9 Fluorene	166	5.145	5.145	(1.071)	2130	0.20000	0.1872
	11 Phenanthrene	178	5.768	5.768	(1.002)	3900	0.20000	0.2189
	12 Anthracene	178	5.804	5.804	(1.008)	3761	0.20000	0.2082
	13 Carbazole	167	5.915	5.915	(1.028)	2871	0.20000	0.1855
	15 Fluoranthene	202	6.604	6.604	(1.147)	3316	0.20000	0.1685
	16 Pyrene	202	6.774	6.774	(0.879)	4087	0.20000	0.1886
	17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	7657	0.20000	0.3066
	19 Chrysene	228	7.727	7.727	(1.003)	3963	0.20000	0.1778
	20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	5890	0.20000	0.2477(H)
	21 Benzo(k)fluoranthene	252	8.586	8.586	(0.964)	4185	0.20000	0.1819(H)
	22 Benzo(a)pyrene	252	8.851	8.851	(0.993)	5100	0.20000	0.2278(H)
	24 Indeno(1,2,3-cd)pyrene	276	10.062	10.062	(1.129)	5188	0.20000	0.2440
	25 Dibenzo(a,h)anthracene	278	10.086	10.086	(1.132)	3872	0.20000	0.1971(MH)
	26 Benzo(g,h,i)perylene	276	10.415	10.415	(1.169)	4492	0.20000	0.2070(H)

QC Flag Legend

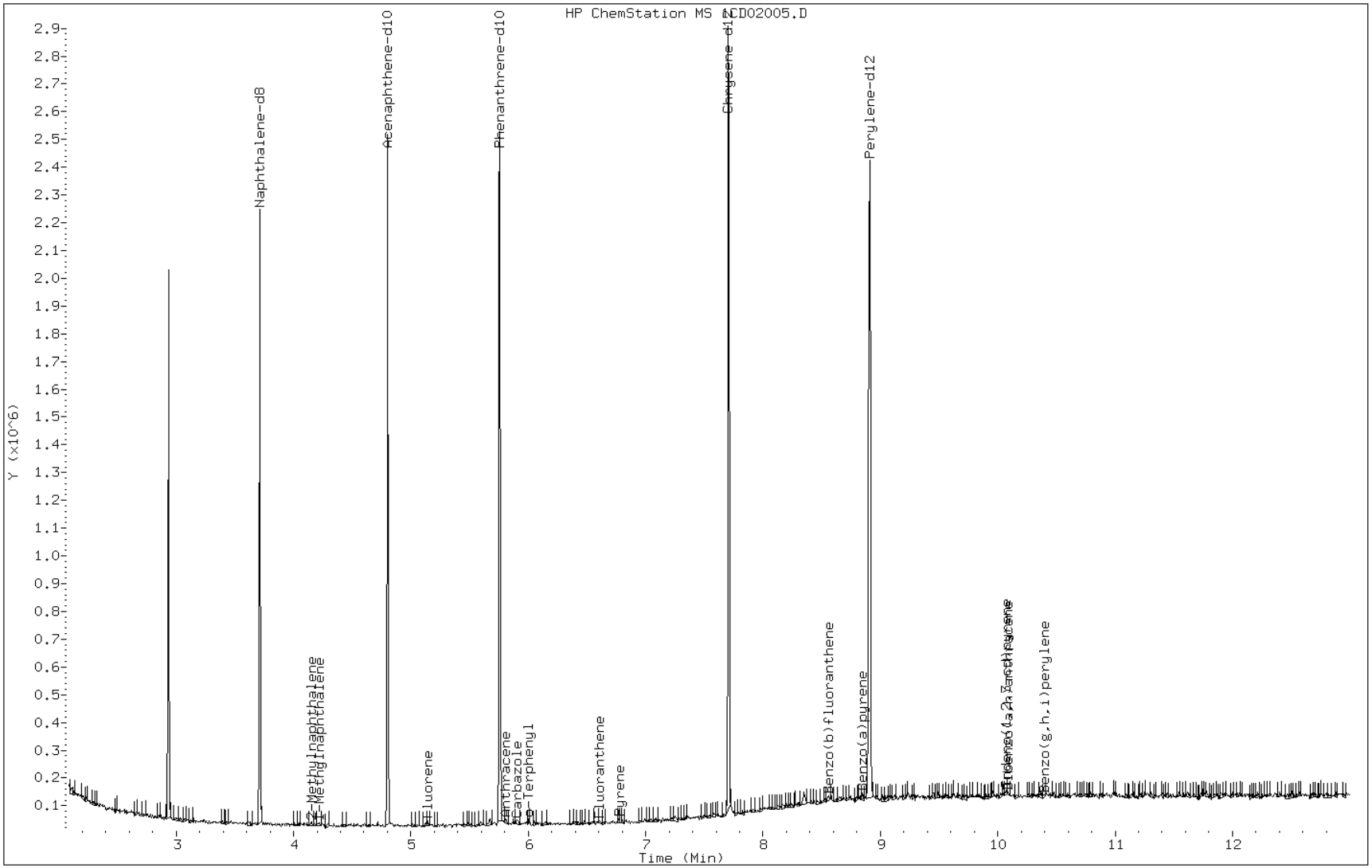
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02005.D

Date: 02-APR-2013 13:26

Client ID: Instrument: BSMC5973.i

Sample Info: IC1 Operator: SCC



Manual Integration Report

Data File: 1CD02005.D
Inj. Date and Time: 02-APR-2013 13:26
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/02/2013

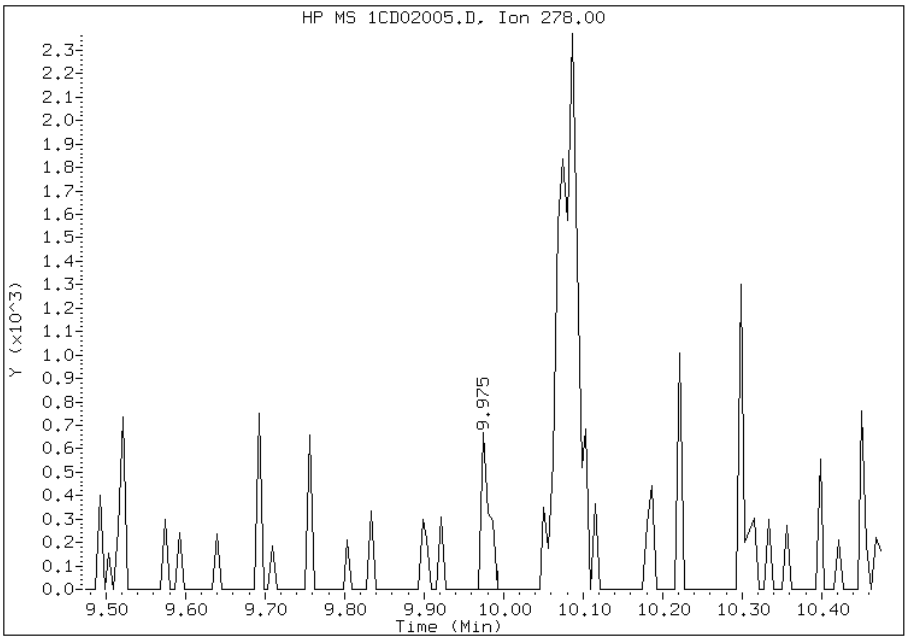
Processing Integration Results

RT: 9.97

Response: 454

Amount: 0

Conc: 0



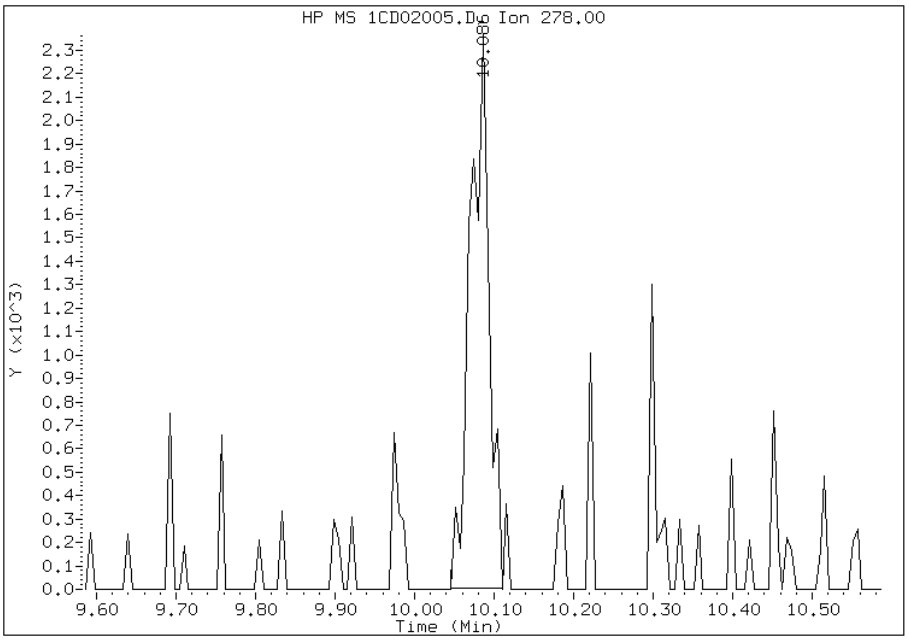
Manual Integration Results

RT: 10.09

Response: 3872

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:44
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02006.D
Lab Smp Id: IC2
Inj Date : 02-APR-2013 13:44
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC2
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 13:26 Cal File: 1CD02005.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	451517	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	318036	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	591987	40.0000	
$	14 o-Terphenyl	230	5.998	5.998	(1.044)	7501	1.00000	0.8130
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	750291	40.0000	(H)
*	23 Perylene-d12	264	8.862	8.862	(1.000)	848618	40.0000	(H)
	2 Naphthalene	128	3.727	3.727	(1.005)	10440	1.00000	0.9002
	3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	7695	1.00000	0.9747
	4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	5100	1.00000	0.7179(Q)
	5 Acenaphthylene	152	4.710	4.710	(0.982)	12563	1.00000	0.9544
	7 Acenaphthene	154	4.821	4.821	(1.005)	10900	1.00000	1.3375(Q)
	9 Fluorene	166	5.139	5.139	(1.071)	11990	1.00000	1.1032
	11 Phenanthrene	178	5.762	5.762	(1.003)	16838	1.00000	0.9766
	12 Anthracene	178	5.798	5.798	(1.009)	16401	1.00000	0.9383
	13 Carbazole	167	5.904	5.904	(1.028)	13272	1.00000	0.8863
	15 Fluoranthene	202	6.598	6.598	(1.148)	17746	1.00000	0.9319
	16 Pyrene	202	6.762	6.762	(0.880)	20532	1.00000	0.9878(H)
	17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	24413	1.00000	1.0187(H)
	19 Chrysene	228	7.704	7.704	(1.002)	22752	1.00000	1.0641
	20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	19731	1.00000	0.8224(H)
	21 Benzo(k)fluoranthene	252	8.539	8.539	(0.963)	22203	1.00000	0.9568(H)
	22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	20343	1.00000	0.9006(H)
	24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.129)	19198	1.00000	0.8948(MH)
	25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.131)	19937	1.00000	1.0060(H)
	26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	20561	1.00000	0.9390(H)

QC Flag Legend

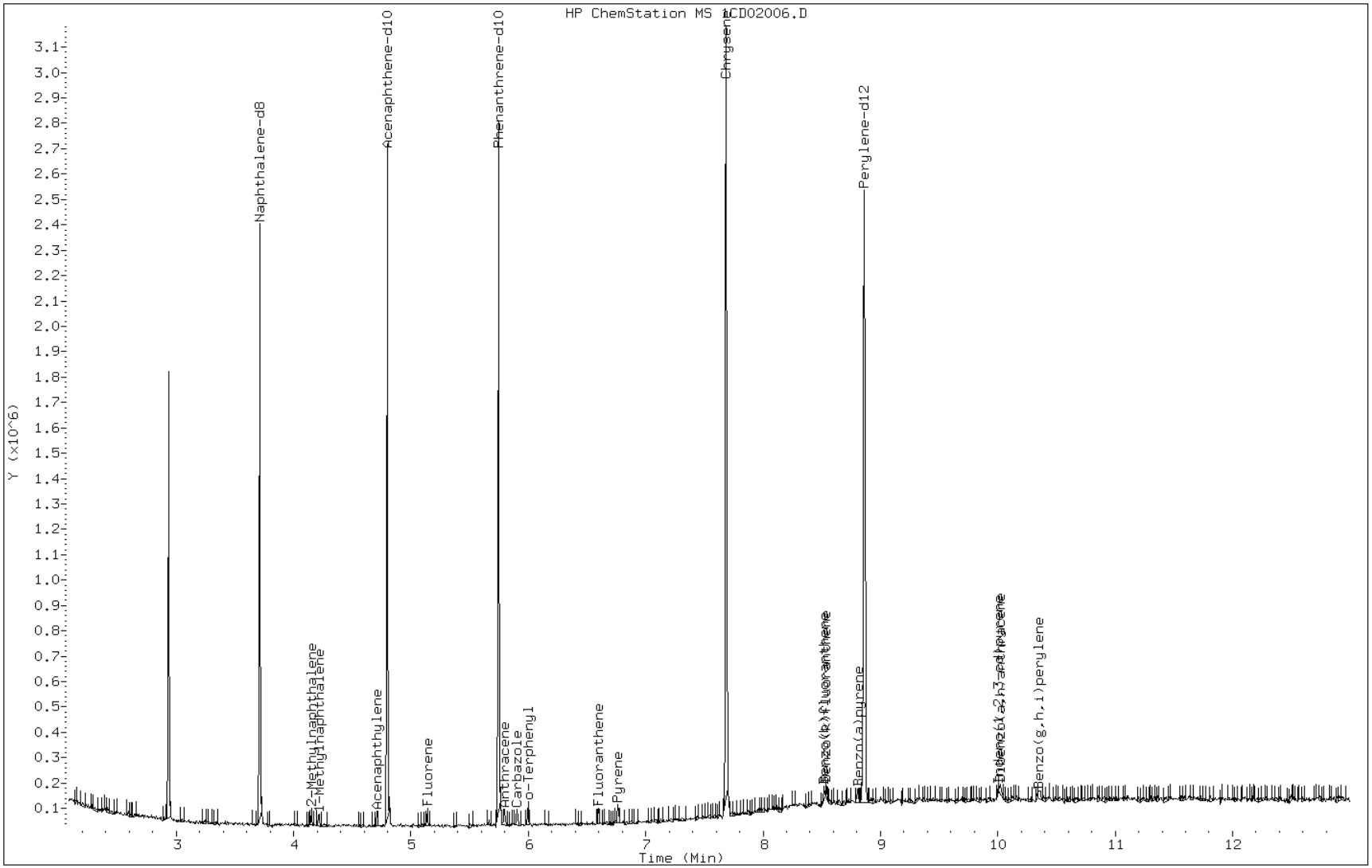
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02006.D

Date: 02-APR-2013 13:44

Client ID: Instrument: BSMC5973.i

Sample Info: IC2 Operator: SCC



Manual Integration Report

Data File: 1CD02006.D
Inj. Date and Time: 02-APR-2013 13:44
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

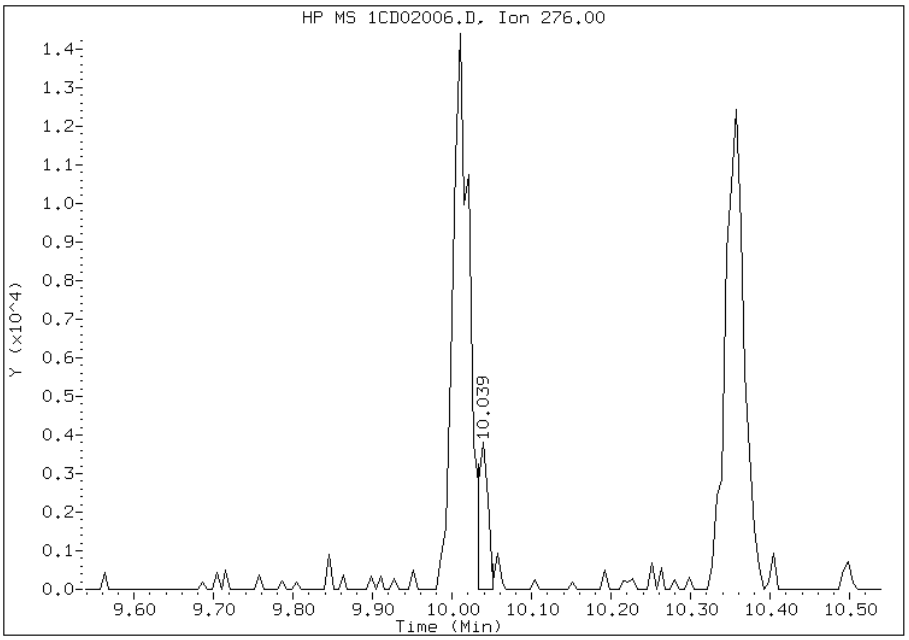
Processing Integration Results

RT: 10.04

Response: 3225

Amount: 0

Conc: 0



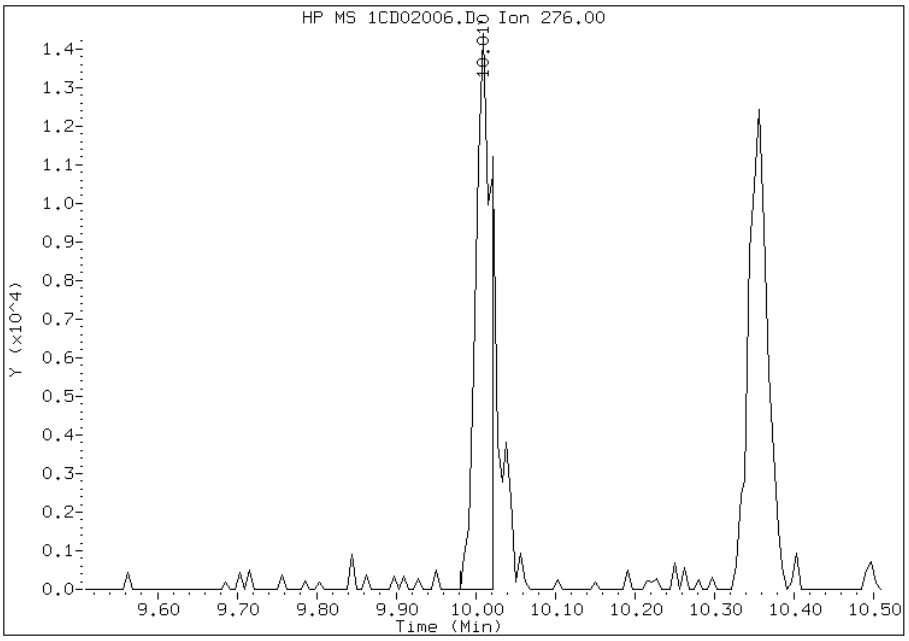
Manual Integration Results

RT: 10.01

Response: 19198

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:45
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02007.D
Lab Smp Id: IC3
Inj Date : 02-APR-2013 14:02
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC3
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 13:44 Cal File: 1CD02006.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	457408	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	331342	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	625535	40.0000	
$	14 o-Terphenyl	230	5.998	5.998	(1.044)	45027	5.00000	4.6190
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	787858	40.0000	
*	23 Perylene-d12	264	8.856	8.856	(1.000)	882270	40.0000	(H)
	2 Naphthalene	128	3.727	3.727	(1.005)	65815	5.00000	5.6020
	3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	39376	5.00000	4.9236
	4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	37056	5.00000	5.1494(Q)
	5 Acenaphthylene	152	4.710	4.710	(0.982)	70473	5.00000	5.1389
	7 Acenaphthene	154	4.821	4.821	(1.005)	39421	5.00000	4.6430
	9 Fluorene	166	5.139	5.139	(1.071)	58298	5.00000	5.1486
	11 Phenanthrene	178	5.763	5.763	(1.003)	88442	5.00000	4.8545
	12 Anthracene	178	5.792	5.792	(1.008)	90016	5.00000	4.8741
	13 Carbazole	167	5.904	5.904	(1.028)	83549	5.00000	5.2803
	15 Fluoranthene	202	6.598	6.598	(1.148)	105772	5.00000	5.2570
	16 Pyrene	202	6.762	6.762	(0.880)	109963	5.00000	5.0385
	17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	110756	5.00000	4.4014
	19 Chrysene	228	7.704	7.704	(1.002)	118460	5.00000	5.2764(H)
	20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	127315	5.00000	5.1043
	21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	121957	5.00000	5.0554(H)
	22 Benzo(a)pyrene	252	8.804	8.804	(0.994)	112782	5.00000	4.8027(H)
	24 Indeno(1,2,3-cd)pyrene	276	10.003	10.003	(1.129)	114519	5.00000	5.1344(MH)
	25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	97409	5.00000	4.7277(H)
	26 Benzo(g,h,i)perylene	276	10.345	10.345	(1.168)	117403	5.00000	5.1573(H)

QC Flag Legend

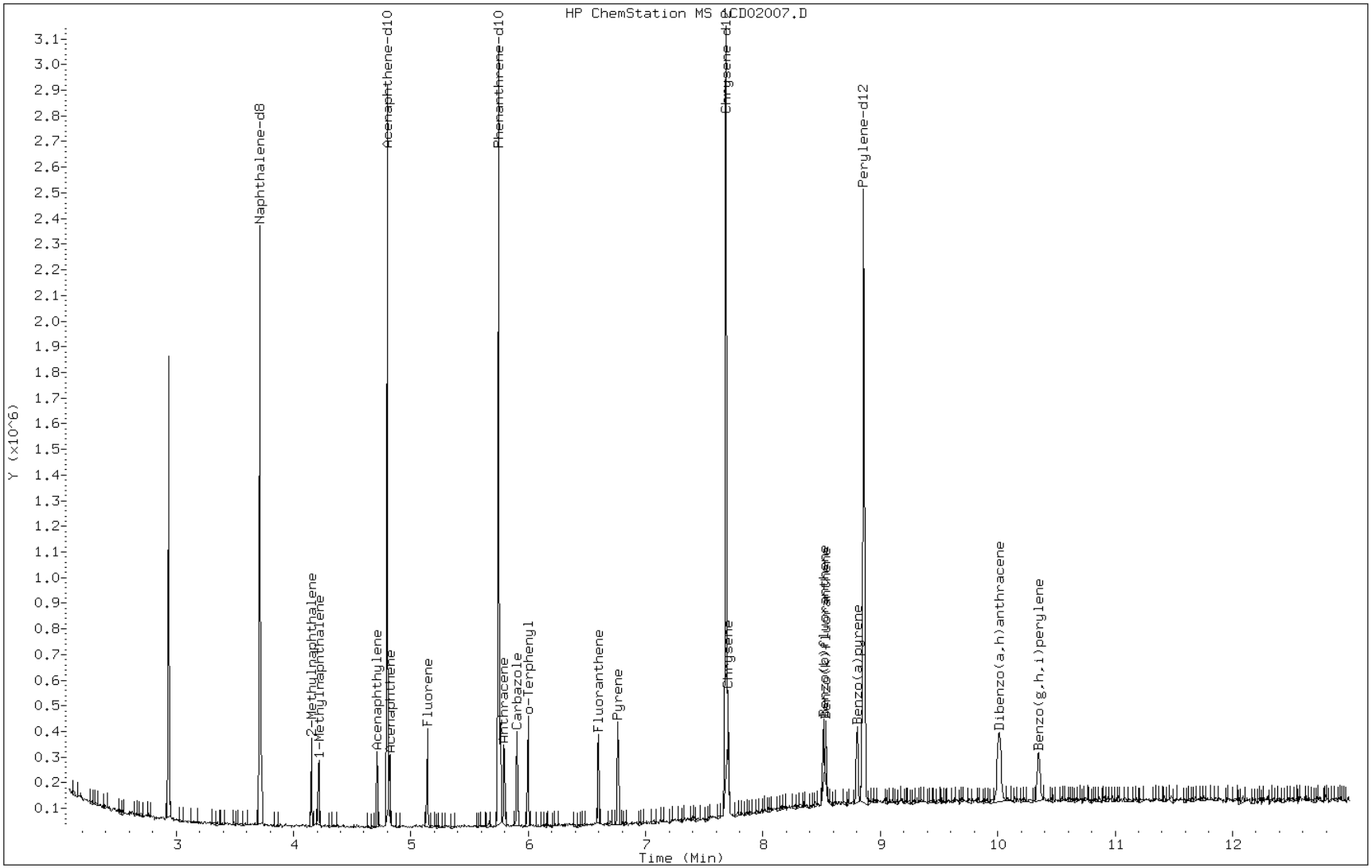
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02007.D

Date: 02-APR-2013 14:02

Client ID: Instrument: BSMC5973.i

Sample Info: IC3 Operator: SCC



Manual Integration Report

Data File: 1CD02007.D
Inj. Date and Time: 02-APR-2013 14:02
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

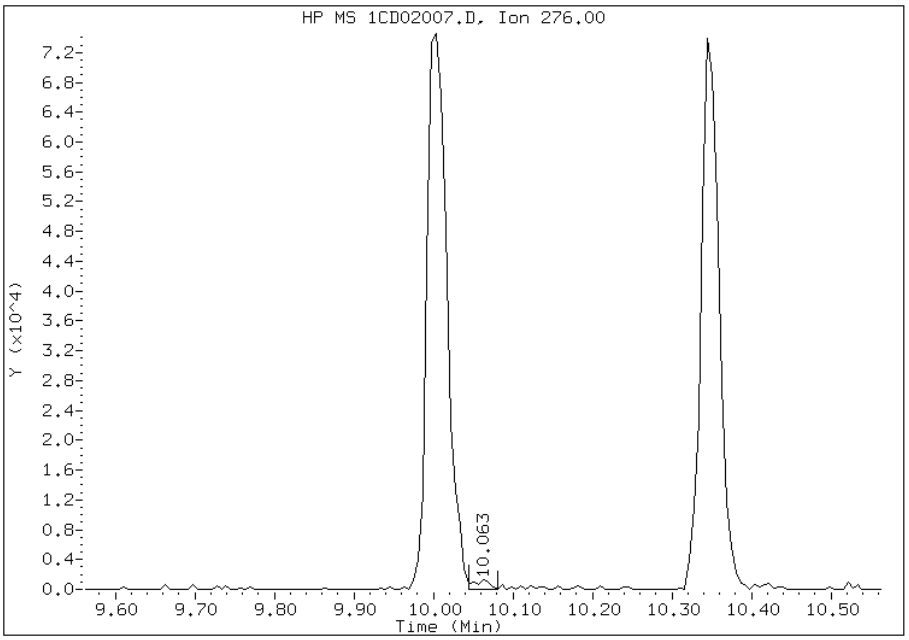
Processing Integration Results

RT: 10.06

Response: 1809

Amount: 0

Conc: 0



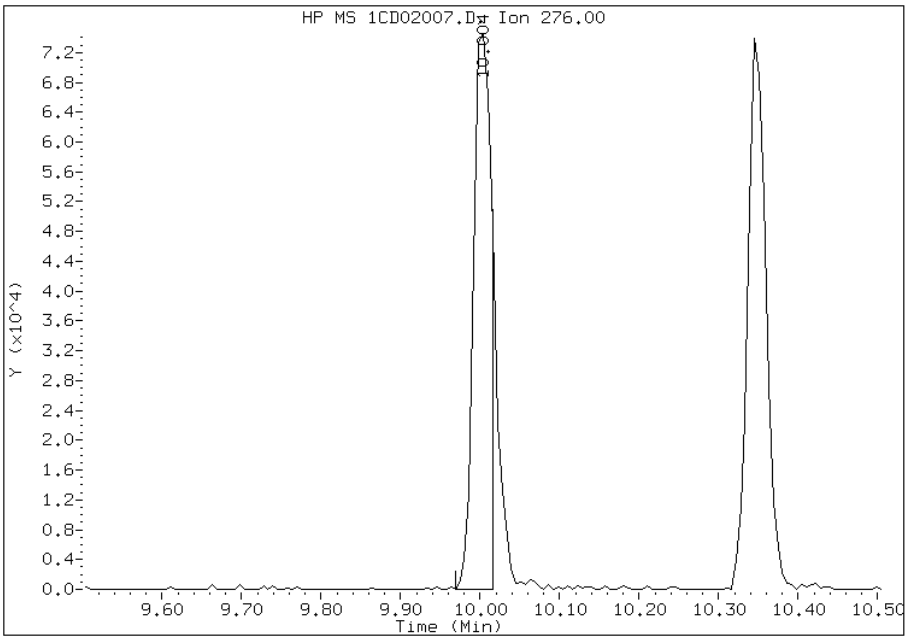
Manual Integration Results

RT: 10.00

Response: 114519

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:48
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02008.D
Lab Smp Id: IC4
Inj Date : 02-APR-2013 14:20
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC4
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:02 Cal File: 1CD02007.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	480844	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	353988	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	681887	40.0000	
$	14 o-Terphenyl	230	5.998	5.998	(1.044)	103309	10.0000	9.7219
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	888354	40.0000	
*	23 Perylene-d12	264	8.856	8.856	(1.000)	928754	40.0000	
	2 Naphthalene	128	3.727	3.727	(1.005)	121970	10.0000	9.8758
	3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	89978	10.0000	10.7026
	4 1-Methylnaphthalene	142	4.215	4.215	(1.136)	73198	10.0000	9.6761
	5 Acenaphthylene	152	4.710	4.710	(0.982)	148174	10.0000	10.1137
	7 Acenaphthene	154	4.821	4.821	(1.005)	84460	10.0000	9.3113
	9 Fluorene	166	5.139	5.139	(1.071)	114648	10.0000	9.4775
	11 Phenanthrene	178	5.762	5.762	(1.003)	194036	10.0000	9.7703
	12 Anthracene	178	5.792	5.792	(1.008)	200131	10.0000	9.9409
	13 Carbazole	167	5.904	5.904	(1.028)	167822	10.0000	9.7299
	15 Fluoranthene	202	6.598	6.598	(1.148)	224705	10.0000	10.2452
	16 Pyrene	202	6.762	6.762	(0.880)	236267	10.0000	9.6011
	17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	250220	10.0000	8.8188
	19 Chrysene	228	7.703	7.703	(1.002)	247512	10.0000	9.7775(H)
	20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	261073	10.0000	9.9431(H)
	21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	258924	10.0000	10.1958(H)
	22 Benzo(a)pyrene	252	8.803	8.803	(0.994)	240110	10.0000	9.7131
	24 Indeno(1,2,3-cd)pyrene	276	10.003	10.003	(1.129)	222795	10.0000	9.4889(MH)
	25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	216036	10.0000	9.9604
	26 Benzo(g,h,i)perylene	276	10.350	10.350	(1.169)	233308	10.0000	9.7359(H)

QC Flag Legend

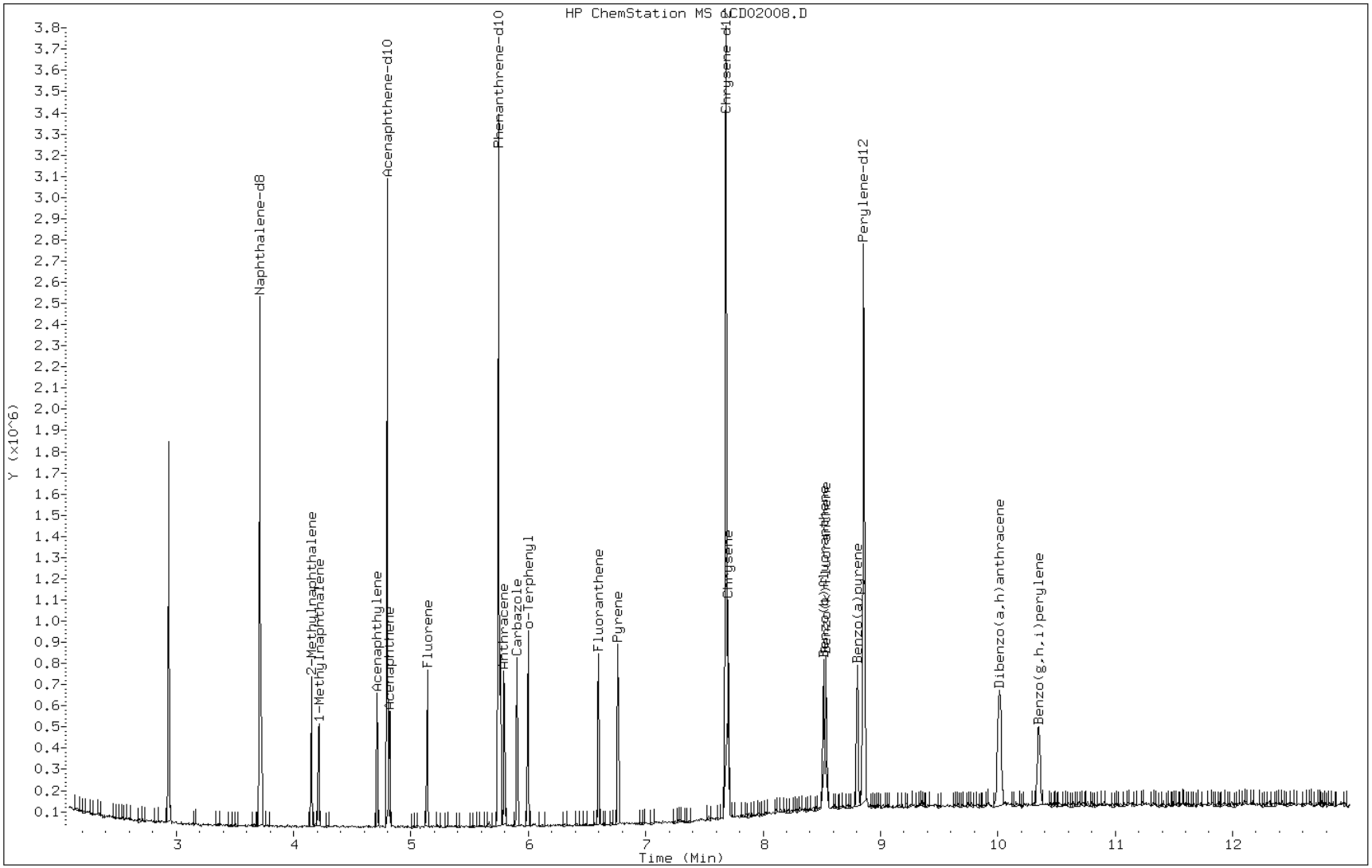
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02008.D

Date: 02-APR-2013 14:20

Client ID: Instrument: BSMC5973.i

Sample Info: IC4 Operator: SCC



Manual Integration Report

Data File: 1CD02008.D
Inj. Date and Time: 02-APR-2013 14:20
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

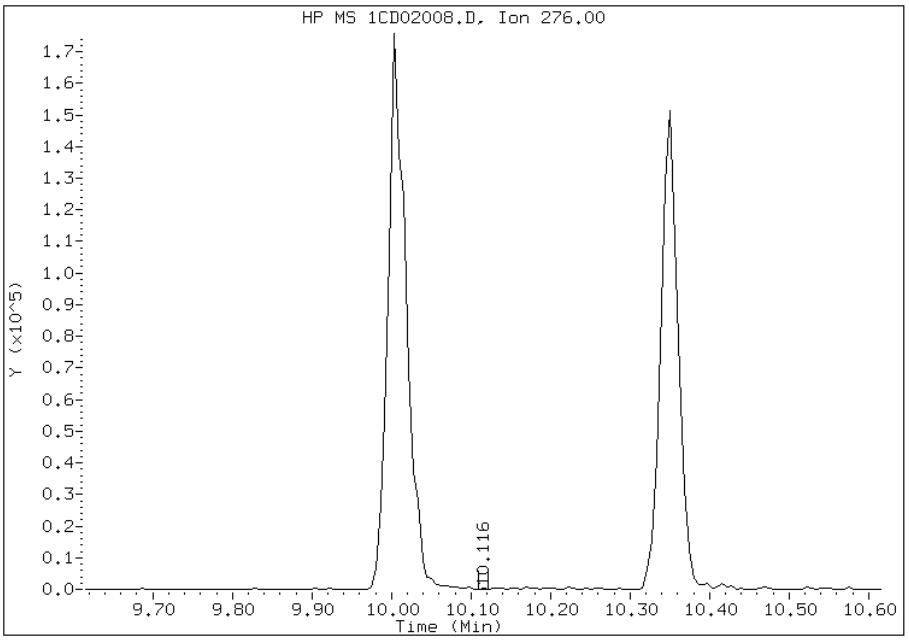
Processing Integration Results

RT: 10.12

Response: 142

Amount: 0

Conc: 0



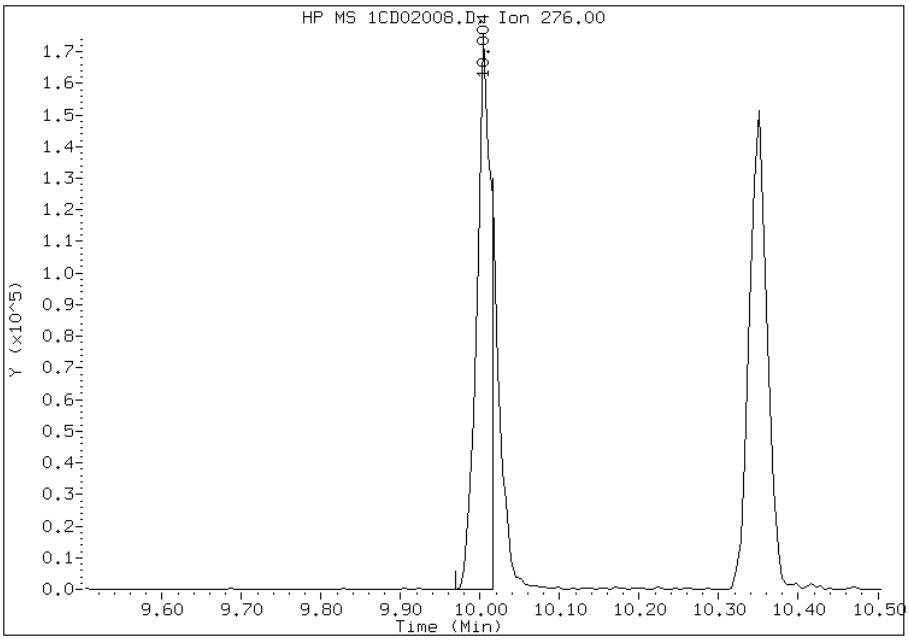
Manual Integration Results

RT: 10.00

Response: 222795

Amount: 9

Conc: 9



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:49
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02009.D
Lab Smp Id: IC5
Inj Date : 02-APR-2013 14:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC5
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:20 Cal File: 1CD02008.D
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	501011	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	361349	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	702974	40.0000	
$	14 o-Terphenyl	230	5.998	5.998	(1.044)	211673	20.0000	19.3221
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	875378	40.0000	
*	23 Perylene-d12	264	8.862	8.862	(1.000)	942955	40.0000	
	2 Naphthalene	128	3.721	3.721	(1.003)	253190	20.0000	19.6753
	3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	158694	20.0000	18.1163
	4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	163647	20.0000	20.7620
	5 Acenaphthylene	152	4.710	4.710	(0.982)	308909	20.0000	20.6554
	7 Acenaphthene	154	4.821	4.821	(1.005)	191043	20.0000	20.6326
	9 Fluorene	166	5.139	5.139	(1.071)	243174	20.0000	19.6928
	11 Phenanthrene	178	5.762	5.762	(1.003)	392252	20.0000	19.1586
	12 Anthracene	178	5.798	5.798	(1.009)	408192	20.0000	19.6676
	13 Carbazole	167	5.904	5.904	(1.028)	376402	20.0000	21.1684
	15 Fluoranthene	202	6.598	6.598	(1.148)	468708	20.0000	20.7293
	16 Pyrene	202	6.762	6.762	(0.880)	498076	20.0000	20.5403
	17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	491852	20.0000	17.5920
	19 Chrysene	228	7.704	7.704	(1.002)	494376	20.0000	19.8190
	20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	494109	20.0000	18.5350
	21 Benzo(k)fluoranthene	252	8.539	8.539	(0.963)	517620	20.0000	20.0758
	22 Benzo(a)pyrene	252	8.803	8.803	(0.993)	482722	20.0000	19.2334
	24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.129)	412839	20.0000	17.3182(M)
	25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	435940	20.0000	19.7965
	26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	470085	20.0000	19.3212

QC Flag Legend

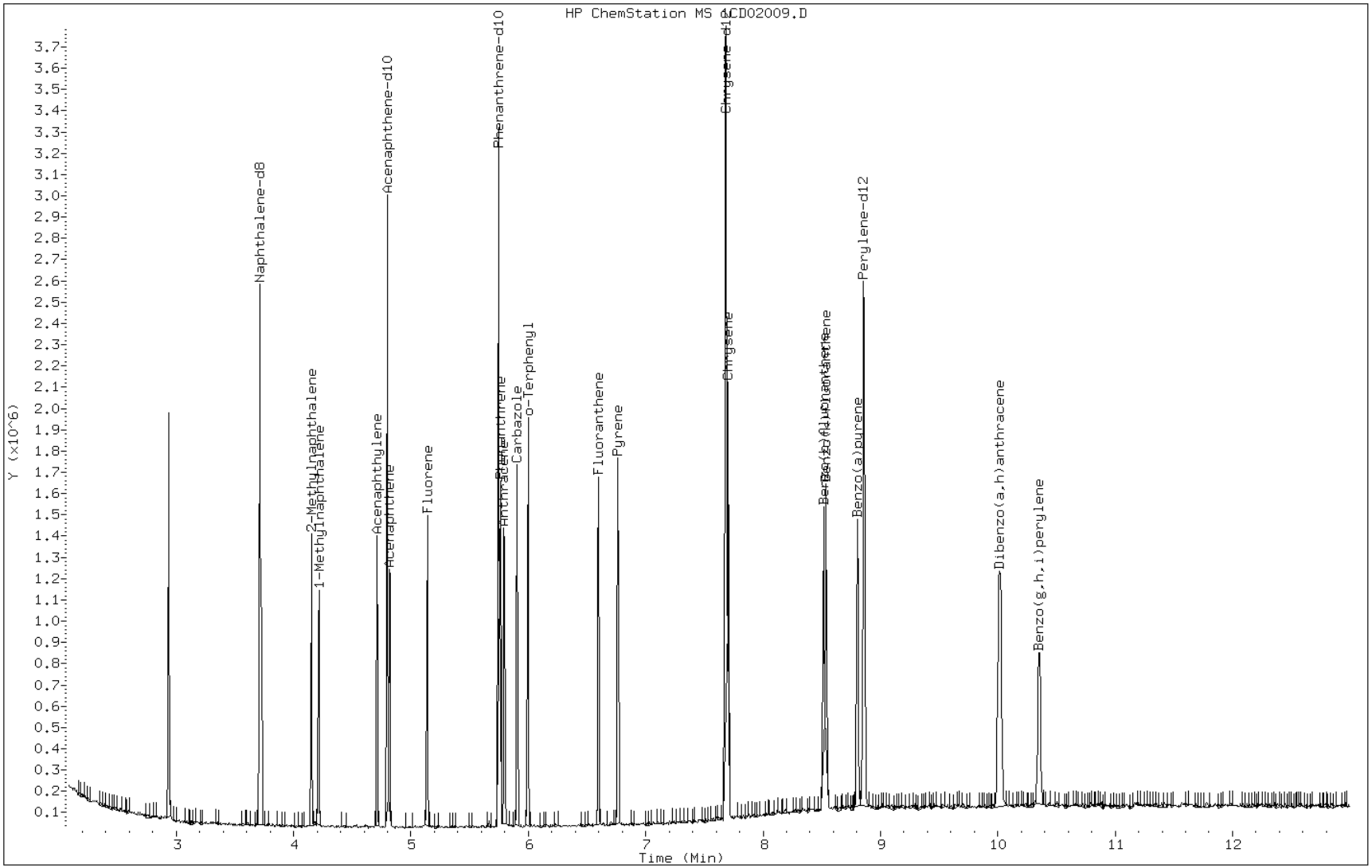
M - Compound response manually integrated.

Data File: 1CD02009.D

Date: 02-APR-2013 14:39

Client ID: Instrument: BSMC5973.i

Sample Info: IC5 Operator: SCC



Manual Integration Report

Data File: 1CD02009.D
Inj. Date and Time: 02-APR-2013 14:39
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

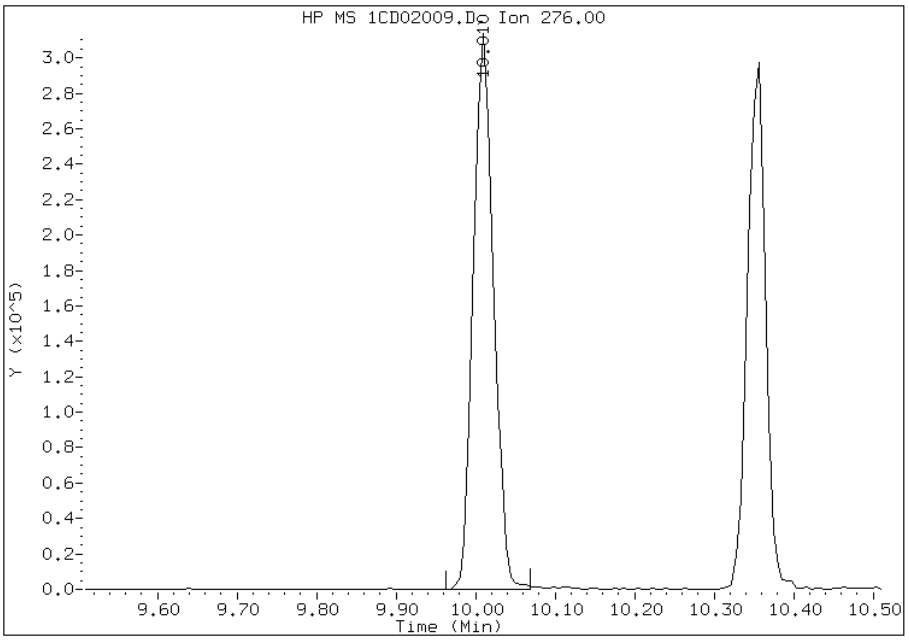
Processing Integration Results

RT: 10.01

Response: 550558

Amount: 32

Conc: 32



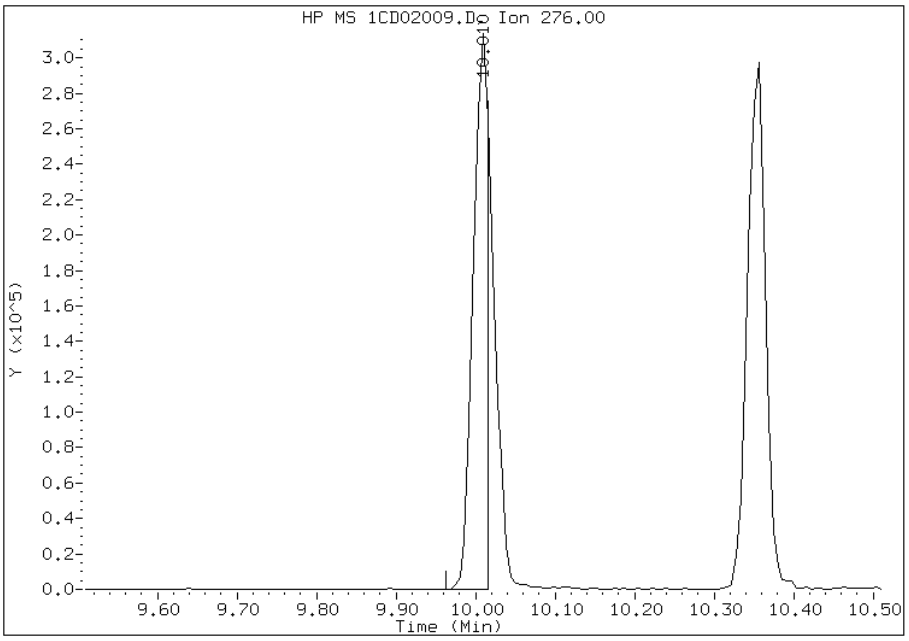
Manual Integration Results

RT: 10.01

Response: 412839

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:39
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02010.D
Lab Smp Id: IC6
Inj Date : 02-APR-2013 14:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC6
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:39 Cal File: 1CD02009.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	446499	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	324284	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	615852	40.0000	
$	14 o-Terphenyl	230	5.998	5.998	(1.044)	275212	30.0000	28.6761
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	768745	40.0000	
*	23 Perylene-d12	264	8.857	8.857	(1.000)	837251	40.0000	
	2 Naphthalene	128	3.722	3.722	(1.003)	350333	30.0000	30.5481
	3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	228375	30.0000	29.2540
	4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	221182	30.0000	31.4875
	5 Acenaphthylene	152	4.710	4.710	(0.982)	423924	30.0000	31.5858
	7 Acenaphthene	154	4.822	4.822	(1.005)	244735	30.0000	29.4523
	9 Fluorene	166	5.139	5.139	(1.071)	331328	30.0000	29.8986
	11 Phenanthrene	178	5.763	5.763	(1.003)	529536	30.0000	29.5228
	12 Anthracene	178	5.792	5.792	(1.008)	557837	30.0000	30.6801
	13 Carbazole	167	5.904	5.904	(1.028)	488550	30.0000	31.3623
	15 Fluoranthene	202	6.598	6.598	(1.148)	607836	30.0000	30.6854
	16 Pyrene	202	6.763	6.763	(0.880)	663294	30.0000	31.1481
	17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	659379	30.0000	26.8553
	19 Chrysene	228	7.704	7.704	(1.002)	659226	30.0000	30.0935(H)
	20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	671785	30.0000	28.3815(H)
	21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	719552	30.0000	31.4311(H)
	22 Benzo(a)pyrene	252	8.804	8.804	(0.994)	655944	30.0000	29.4349
	24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.130)	655344	30.0000	30.9619(MH)
	25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.132)	600720	30.0000	30.7234
	26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	675124	30.0000	31.2520(H)

QC Flag Legend

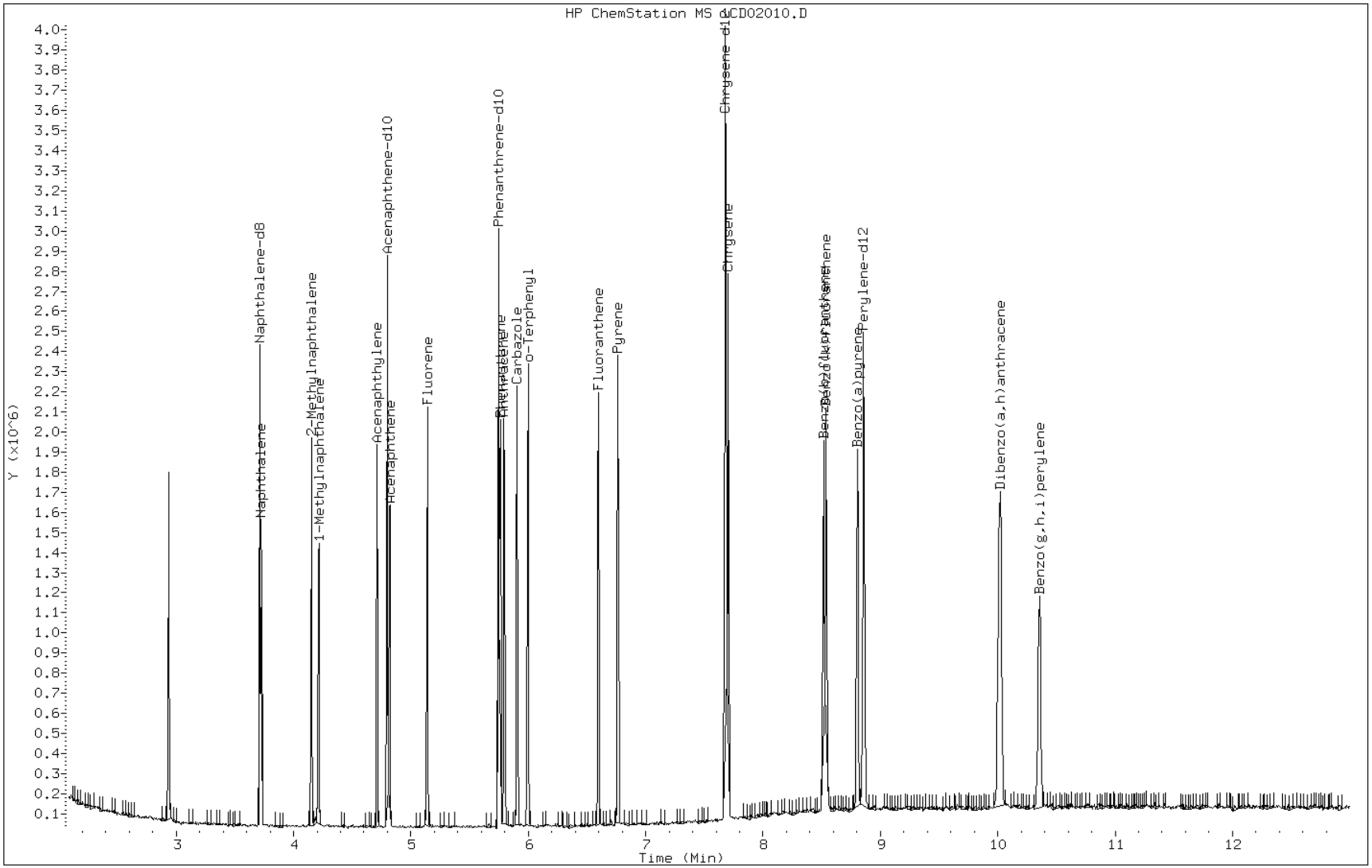
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02010.D

Date: 02-APR-2013 14:57

Client ID: Instrument: BSMC5973.i

Sample Info: IC6 Operator: SCC



Manual Integration Report

Data File: 1CD02010.D
Inj. Date and Time: 02-APR-2013 14:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

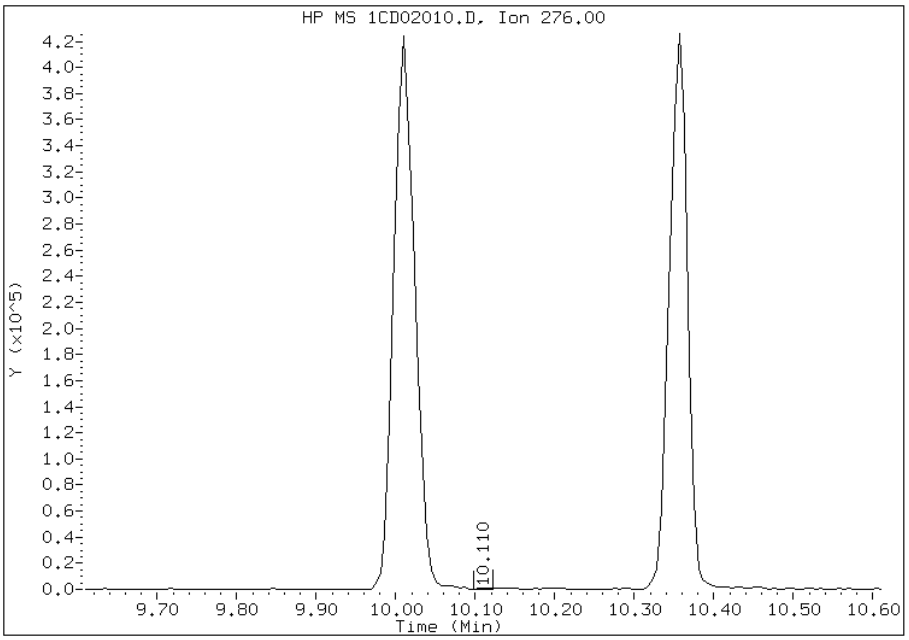
Processing Integration Results

RT: 10.11

Response: 1008

Amount: 0

Conc: 0



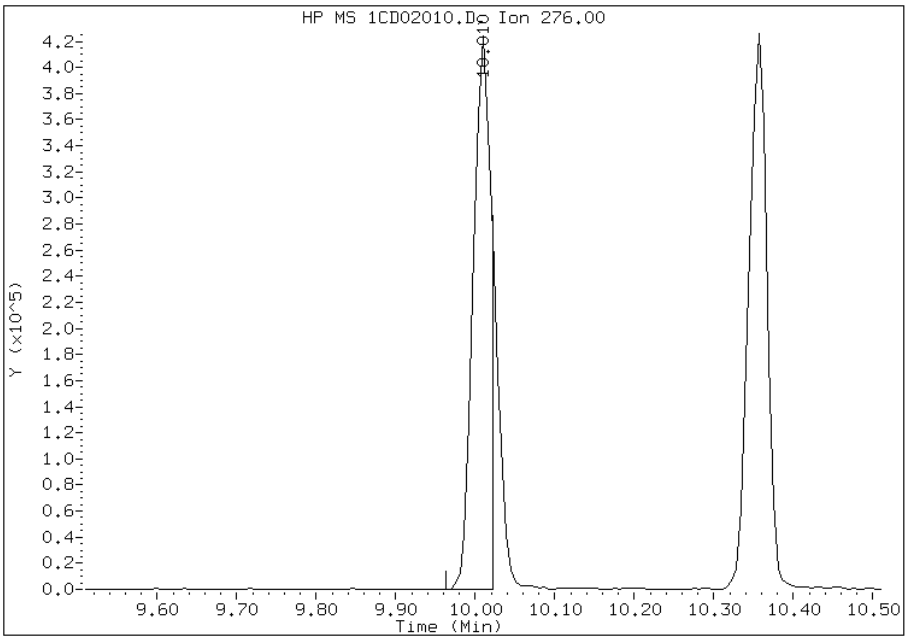
Manual Integration Results

RT: 10.01

Response: 655344

Amount: 31

Conc: 31



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:50
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02011.D
Lab Smp Id: IC7
Inj Date : 02-APR-2013 15:15
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC7
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:57 Cal File: 1CD02010.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	509868	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	373136	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	712035	40.0000	
$	14 o-Terphenyl	230	5.998	5.998	(1.044)	587824	50.0000	52.9755(A)
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	948633	40.0000	
*	23 Perylene-d12	264	8.862	8.862	(1.000)	971909	40.0000	
	2 Naphthalene	128	3.727	3.727	(1.005)	668649	50.0000	51.0580(A)
	3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	447751	50.0000	50.2269(A)
	4 1-Methylnaphthalene	142	4.215	4.215	(1.136)	419135	50.0000	52.2523(A)
	5 Acenaphthylene	152	4.710	4.710	(0.982)	814053	50.0000	52.7127(A)
	7 Acenaphthene	154	4.821	4.821	(1.005)	480392	50.0000	50.2433(A)
	9 Fluorene	166	5.139	5.139	(1.071)	638557	50.0000	50.0785(A)
	11 Phenanthrene	178	5.762	5.762	(1.003)	1077014	50.0000	51.9349(A)
	12 Anthracene	178	5.798	5.798	(1.009)	1098599	50.0000	52.2594(A)
	13 Carbazole	167	5.904	5.904	(1.028)	948101	50.0000	52.6415(A)
	15 Fluoranthene	202	6.598	6.598	(1.148)	1248081	50.0000	54.4959(A)
	16 Pyrene	202	6.762	6.762	(0.880)	1360548	50.0000	51.7754(A)
	17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	1380443	50.0000	45.5615
	19 Chrysene	228	7.709	7.709	(1.003)	1377767	50.0000	50.9681(AH)
	20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	1443812	50.0000	52.5467(AH)
	21 Benzo(k)fluoranthene	252	8.545	8.545	(0.964)	1396501	50.0000	52.5496(AH)
	22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	1403971	50.0000	54.2730(A)
	24 Indeno(1,2,3-cd)pyrene	276	10.015	10.015	(1.130)	1242391	50.0000	50.5646(AMH)
	25 Dibenzo(a,h)anthracene	278	10.033	10.033	(1.132)	1194691	50.0000	52.6360(A)
	26 Benzo(g,h,i)perylene	276	10.362	10.362	(1.169)	1270187	50.0000	50.6515(AH)

QC Flag Legend

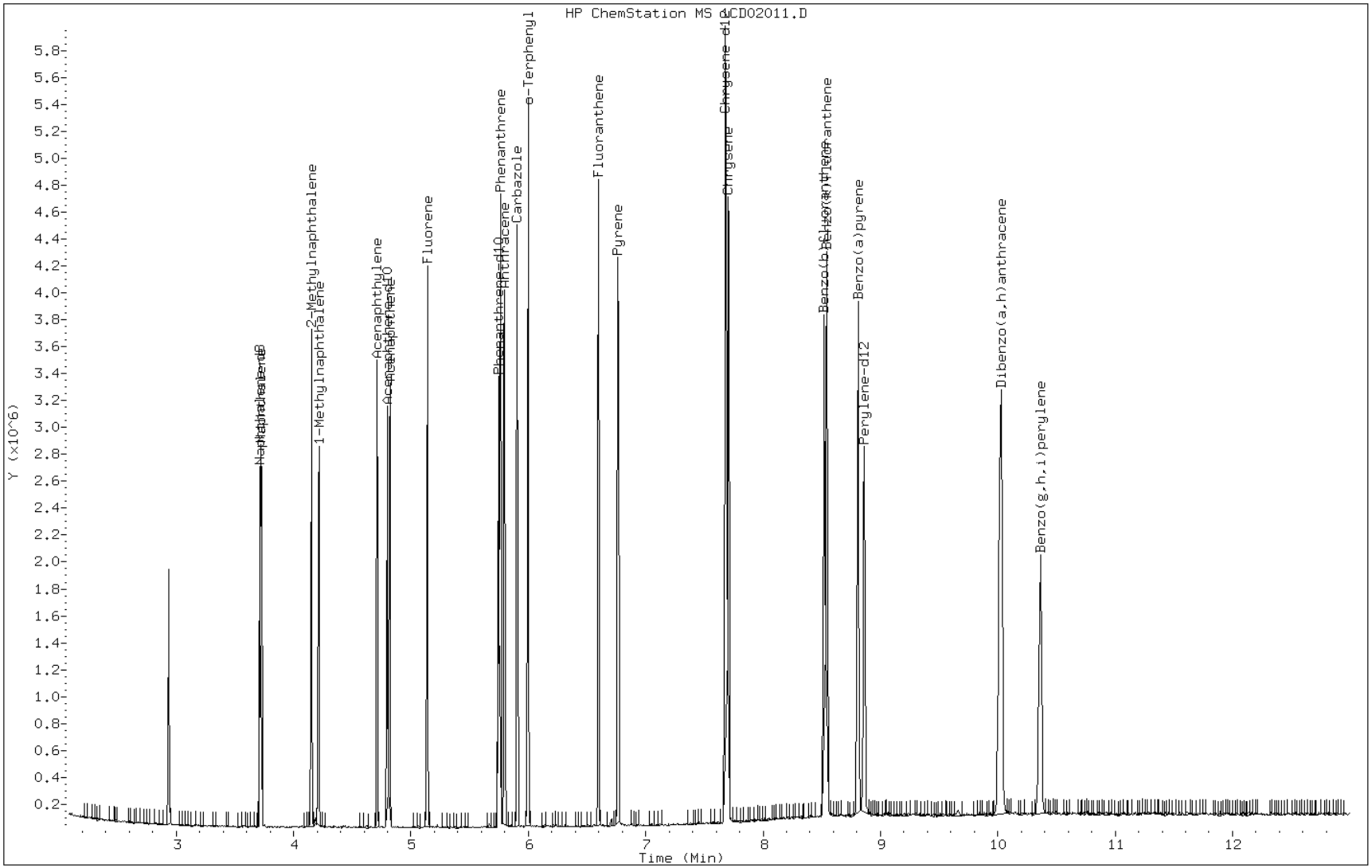
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02011.D

Date: 02-APR-2013 15:15

Client ID: Instrument: BSMC5973.i

Sample Info: IC7 Operator: SCC



Manual Integration Report

Data File: 1CD02011.D
Inj. Date and Time: 02-APR-2013 15:15
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

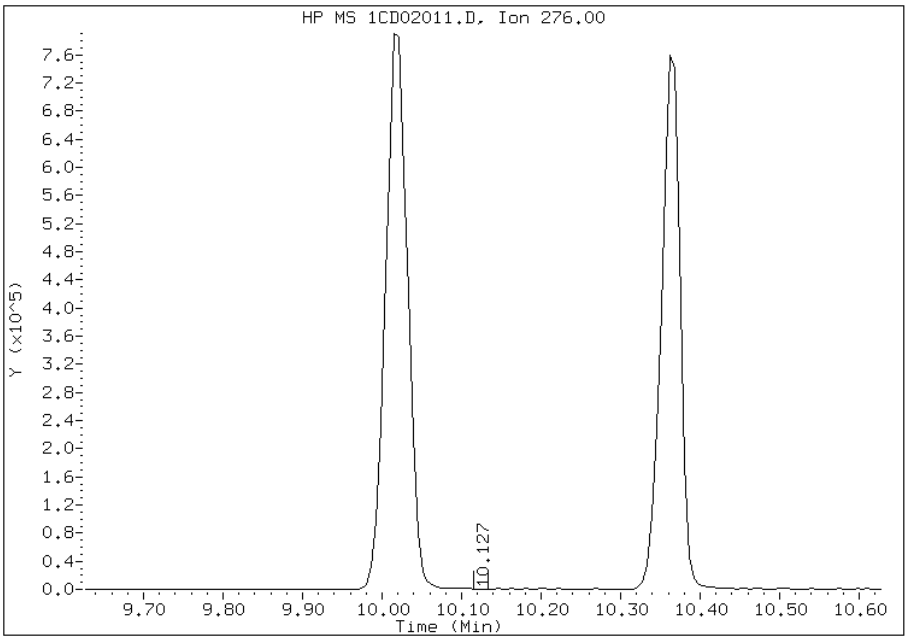
Processing Integration Results

RT: 10.13

Response: 653

Amount: 0

Conc: 0



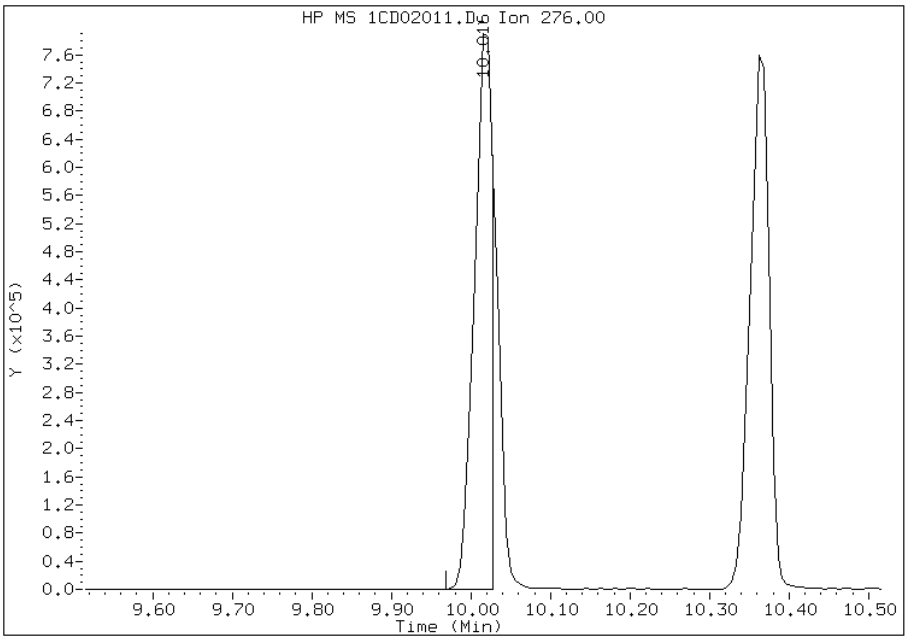
Manual Integration Results

RT: 10.02

Response: 1242391

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:51
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Lab Sample ID: ICV 660-136269/12 Calibration Date: 04/09/2013 13:51

Instrument ID: BSMA5973 Calib Start Date: 04/09/2013 10:31

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/09/2013 12:03

Lab File ID: 1AD09012.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Qua	1.164	1.049	0.0000	19200	20000	-3.8	35.0
2-Methylnaphthalene	Qua	0.6769	0.6602	0.0000	21200	20000	6.1	35.0
1-Methylnaphthalene	Qua	0.7577	0.7532	0.0000	22400	20000	12.1	35.0
Acenaphthylene	Qua	2.305	2.059	0.0000	17600	20000	-12.1	35.0
Acenaphthene	Qua	1.341	1.135	0.0000	18000	20000	-10.2	35.0
Fluorene	Qua	1.676	1.477	0.0000	18300	20000	-8.3	35.0
Phenanthrene	Qua	1.294	1.095	0.0000	18000	20000	-10.1	35.0
Anthracene	Qua	1.308	1.177	0.0000	18600	20000	-6.8	35.0
Carbazole	Qua	1.209	0.9261	0.0000	15300	20000	-23.5	35.0
Fluoranthene	Qua	1.464	1.396	0.0000	19600	20000	-1.8	35.0
Pyrene	Ave	1.541	1.486	0.0000	19300	20000	-3.6	35.0
Benzo[a]anthracene	Ave	1.334	1.292	0.0000	19400	20000	-3.1	35.0
Chrysene	Ave	1.361	1.219	0.0000	17900	20000	-10.4	35.0
Benzo[b]fluoranthene	Ave	1.213	1.207	0.0000	19900	20000	-0.4	35.0
Benzo[k]fluoranthene	Ave	1.347	1.267	0.0000	18800	20000	-5.9	35.0
Benzo[a]pyrene	Lin	1.157	1.092	0.0000	18500	20000	-7.3	35.0
Indeno[1,2,3-cd]pyrene	Lin	1.023	0.9921	0.0000	17600	20000	-12.1	35.0
Dibenz(a,h)anthracene	Ave	1.011	1.127	0.0000	22300	20000	11.4	35.0
Benzo[g,h,i]perylene	Ave	1.089	1.068	0.0000	19600	20000	-1.9	35.0
o-Terphenyl	Qua	0.7281	0.6328	0.0000	18100	20000	-9.4	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09012.D
Lab Smp Id: ICV-1448440
Inj Date : 09-APR-2013 13:51
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1448440
Misc Info : RE-RUN
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:20 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/l)
*	1 Naphthalene-d8	136	2.592	2.591	(1.000)	1542771	40.0000	
*	6 Acenaphthene-d10	164	3.628	3.622	(1.000)	886874	40.0000	
*	10 Phenanthrene-d10	188	4.579	4.573	(1.000)	1631736	40.0000	
$	14 o-Terphenyl	230	4.883	4.877	(1.066)	516312	18.1166	18.1166
*	18 Chrysene-d12	240	6.603	6.597	(1.000)	1541115	40.0000	
*	23 Perylene-d12	264	7.692	7.676	(1.000)	1781032	40.0000	
	2 Naphthalene	128	2.602	2.602	(1.004)	808850	19.2380	19.2380
	3 2-Methylnaphthalene	141	3.008	3.008	(1.161)	509252	21.2238	21.2238
	4 1-Methylnaphthalene	142	3.062	3.062	(1.181)	580975	22.4261	22.4260
	5 Acenaphthylene	152	3.537	3.532	(0.975)	913033	17.5706	17.5705
	7 Acenaphthene	154	3.644	3.638	(1.004)	503207	17.9564	17.9564
	9 Fluorene	166	3.959	3.953	(1.091)	655022	18.3313	18.3312
	11 Phenanthrene	178	4.595	4.589	(1.003)	893498	17.9753	17.9753
	12 Anthracene	178	4.627	4.626	(1.010)	960125	18.6315	18.6314
	13 Carbazole	167	4.755	4.755	(1.038)	755565	15.2994	15.2993
	15 Fluoranthene	202	5.460	5.454	(1.192)	1138837	19.6352	19.6352
	16 Pyrene	202	5.625	5.620	(0.852)	1145036	19.2813	19.2813

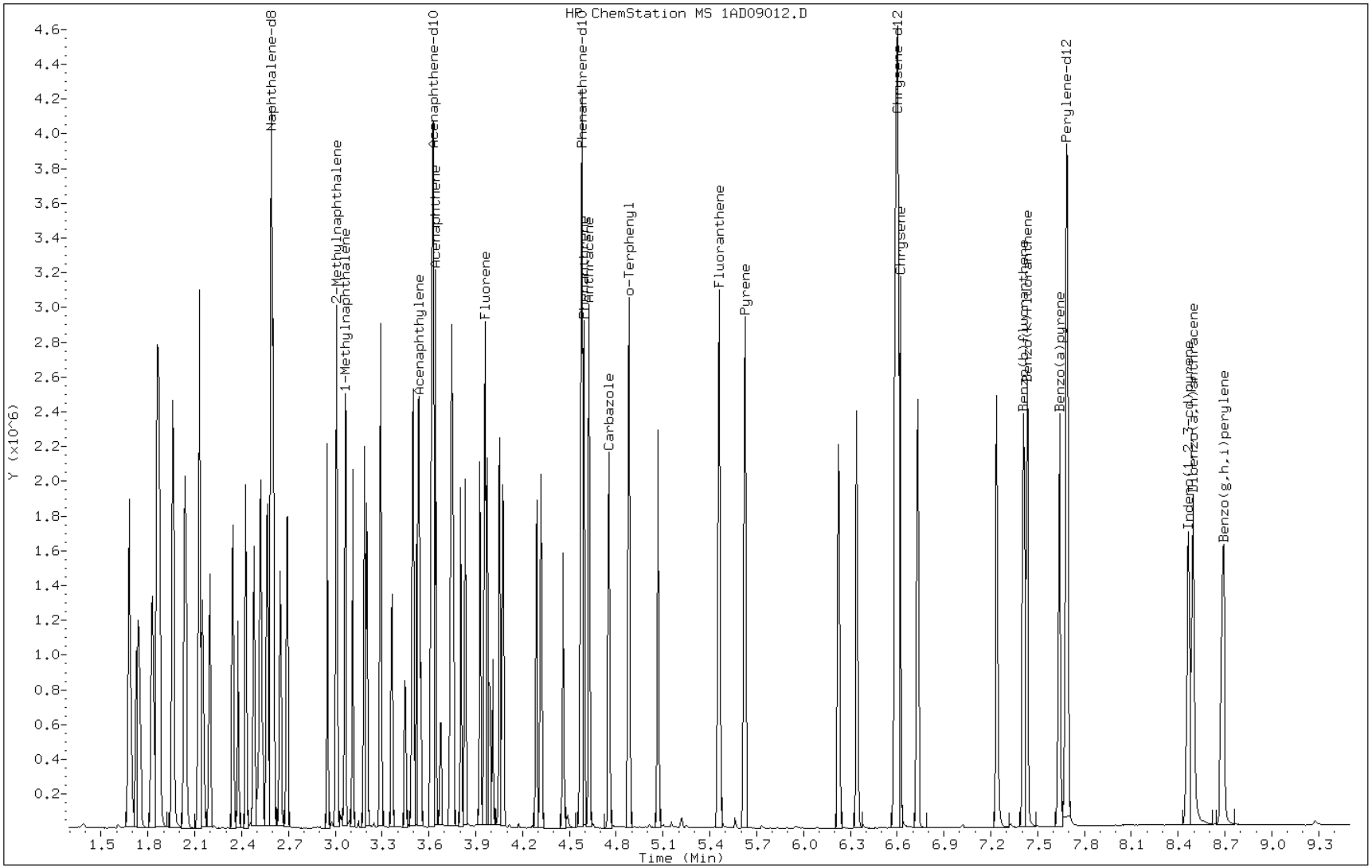
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	6.587	6.581	(0.998)	995754	19.3701	19.3700
19 Chrysene	228	6.619	6.613	(1.002)	939490	17.9191	17.9191
20 Benzo(b)fluoranthene	252	7.409	7.404	(0.963)	1075235	19.9103	19.9102
21 Benzo(k)fluoranthene	252	7.431	7.425	(0.966)	1128299	18.8114	18.8113
22 Benzo(a)pyrene	252	7.639	7.628	(0.993)	972005	18.5371	18.5371
24 Indeno(1,2,3-cd)pyrene	276	8.467	8.451	(1.101)	883515	17.5805	17.5804
25 Dibenzo(a,h)anthracene	278	8.499	8.477	(1.105)	1003330	22.2828	22.2828
26 Benzo(g,h,i)perylene	276	8.691	8.670	(1.130)	951427	19.6134	19.6134

Data File: 1AD09012.D

Date: 09-APR-2013 13:51

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1448440 Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Lab Sample ID: ICV 660-136048/12 Calibration Date: 04/02/2013 15:34

Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/02/2013 15:15

Lab File ID: 1CD02012.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	0.9549	0.0000	18600	20000	-7.1	35.0
2-Methylnaphthalene	Ave	0.6994	0.5884	0.0000	16800	20000	-15.9	35.0
1-Methylnaphthalene	Ave	0.6293	0.5998	0.0000	19100	20000	-4.7	35.0
Acenaphthylene	Ave	1.656	1.493	0.0000	18000	20000	-9.8	35.0
Acenaphthene	Lin	1.025	0.8508	0.0000	16600	20000	-17.0	35.0
Fluorene	Ave	1.367	1.209	0.0000	17700	20000	-11.5	35.0
Phenanthrene	Ave	1.165	0.9563	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.181	0.9425	0.0000	16000	20000	-20.2	35.0
Carbazole	Ave	1.012	0.8775	0.0000	17300	20000	-13.3	35.0
Fluoranthene	Ave	1.287	1.100	0.0000	17100	20000	-14.5	35.0
Pyrene	Ave	1.108	0.8708	0.0000	15700	20000	-21.4	35.0
Benzo[a]anthracene	Lin	1.278	0.9658	0.0000	16800	20000	-16.0	35.0
Chrysene	Ave	1.140	0.8716	0.0000	15300	20000	-23.5	35.0
Benzo[b]fluoranthene	Ave	1.131	0.8920	0.0000	15800	20000	-21.1	35.0
Benzo[k]fluoranthene	Ave	1.094	0.8978	0.0000	16400	20000	-17.9	35.0
Benzo[a]pyrene	Ave	1.065	0.8060	0.0000	15100	20000	-24.3	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.8744	0.0000	17300	20000	-13.5	35.0
Dibenz(a,h)anthracene	Ave	0.9341	0.8626	0.0000	18500	20000	-7.7	35.0
Benzo[g,h,i]perylene	Ave	1.032	0.8592	0.0000	16600	20000	-16.8	35.0
o-Terphenyl	Lin	0.6233	0.5049	0.0000	16200	20000	-19.0	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02012.D
Lab Smp Id: ICV-1448440
Inj Date : 02-APR-2013 15:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	649122	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	500935	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	955391	40.0000	
$	14 o-Terphenyl	230	5.998	5.998	(1.044)	241169	16.1906	16.1906
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	1249690	40.0000	
*	23 Perylene-d12	264	8.856	8.863	(1.000)	1306409	40.0000	
	2 Naphthalene	128	3.727	3.728	(1.005)	309919	18.5886	18.5885
	3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	190970	16.8266	16.8266
	4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	194664	19.0620	19.0620
	5 Acenaphthylene	152	4.710	4.710	(0.982)	373939	18.0364	18.0363
	7 Acenaphthene	154	4.821	4.822	(1.005)	213089	16.5944	16.5943
	9 Fluorene	166	5.139	5.139	(1.071)	302875	17.6930	17.6929
	11 Phenanthrene	178	5.763	5.763	(1.003)	456841	16.4181	16.4181
	12 Anthracene	178	5.798	5.798	(1.009)	450208	15.9610	15.9609
	13 Carbazole	167	5.904	5.904	(1.028)	419186	17.3461	17.3460
	15 Fluoranthene	202	6.598	6.598	(1.148)	525545	17.1022	17.1021
	16 Pyrene	202	6.763	6.763	(0.880)	544110	15.7178	15.7178
	17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	603470	16.8016	16.8016

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
19 Chrysene	228	7.704	7.710	(1.002)	544600	15.2932	15.2931
20 Benzo(b)fluoranthene	252	8.515	8.522	(0.961)	582649	15.7757	15.7757
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.964)	586474	16.4181	16.4181
22 Benzo(a)pyrene	252	8.804	8.810	(0.994)	526495	15.1414	15.1414
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.016	(1.130)	571166	17.2941	17.2940(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.033	(1.131)	563427	18.4677	18.4676
26 Benzo(g,h,i)perylene	276	10.351	10.363	(1.169)	561199	16.6490	16.6490

QC Flag Legend

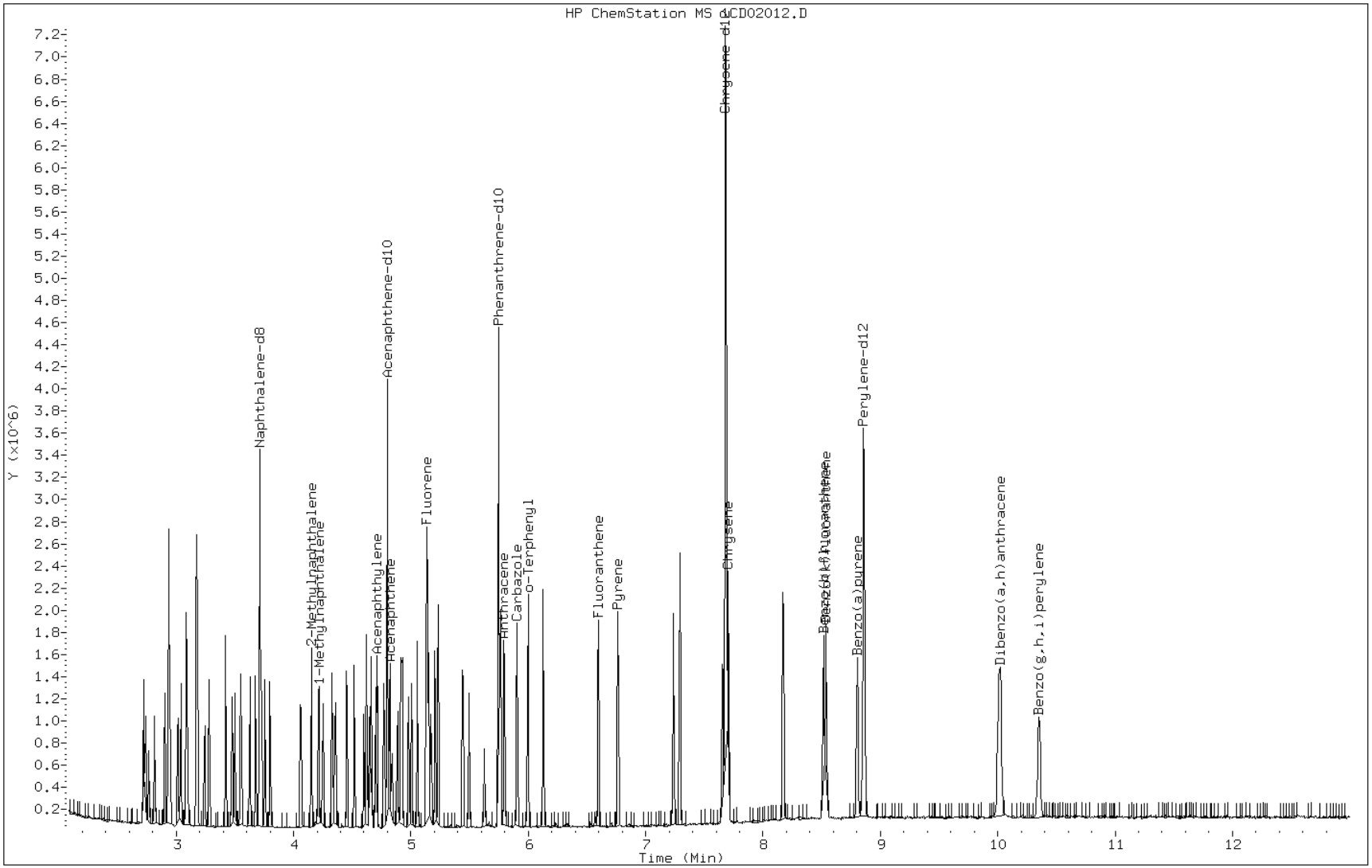
M - Compound response manually integrated.

Data File: 1CD02012.D

Date: 02-APR-2013 15:34

Client ID: Instrument: BSMC5973.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1CD02012.D
Inj. Date and Time: 02-APR-2013 15:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

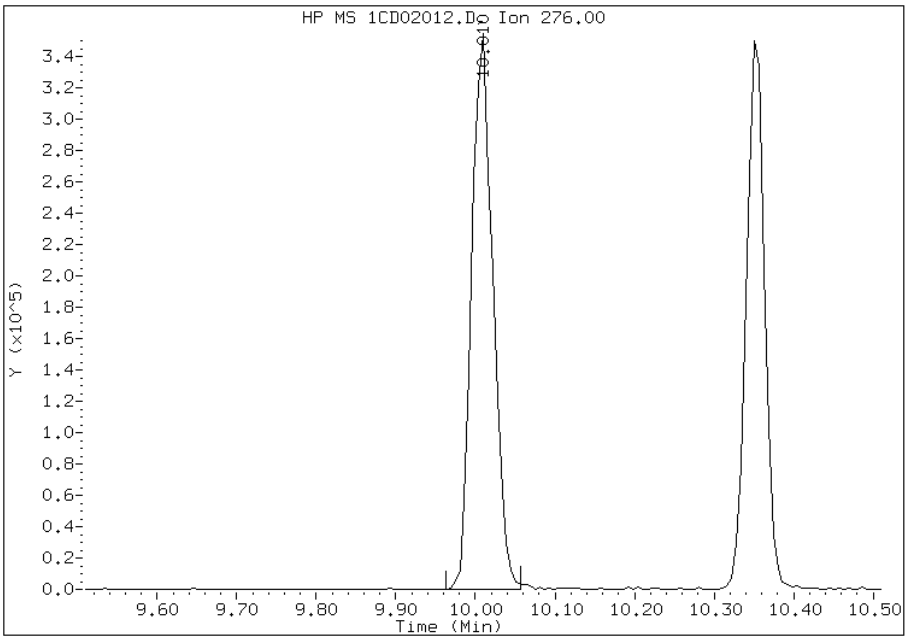
Processing Integration Results

RT: 10.01

Response: 653584

Amount: 20

Conc: 20



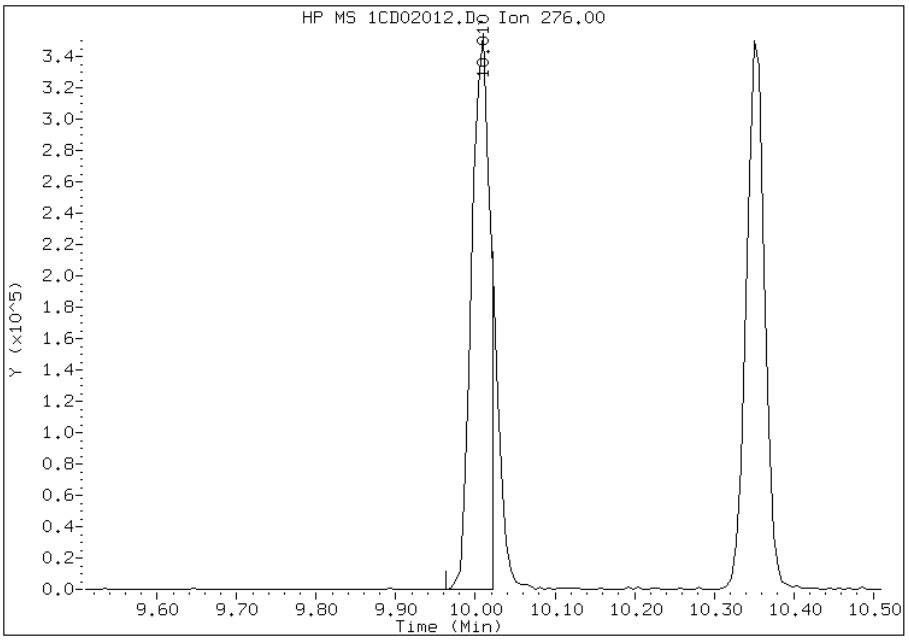
Manual Integration Results

RT: 10.01

Response: 571166

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:57
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Lab Sample ID: CCVIS 660-136263/3 Calibration Date: 04/09/2013 11:47

Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/02/2013 15:15

Lab File ID: 1CD09003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	1.053	0.0000	20500	20000	2.5	20.0
2-Methylnaphthalene	Ave	0.6994	0.6932	0.0000	19800	20000	-0.9	20.0
1-Methylnaphthalene	Ave	0.6293	0.6412	0.0000	20400	20000	1.9	20.0
Acenaphthylene	Ave	1.656	1.668	0.0000	20100	20000	0.7	20.0
Acenaphthene	Lin	1.025	0.9583	0.0000	18700	20000	-6.5	20.0
Fluorene	Ave	1.367	1.371	0.0000	20100	20000	0.3	20.0
Phenanthrene	Ave	1.165	1.134	0.0000	19500	20000	-2.7	20.0
Anthracene	Ave	1.181	1.155	0.0000	19600	20000	-2.2	20.0
Carbazole	Ave	1.012	1.021	0.0000	20200	20000	0.9	20.0
Fluoranthene	Ave	1.287	1.312	0.0000	20400	20000	2.0	20.0
Pyrene	Ave	1.108	1.129	0.0000	20400	20000	1.9	20.0
Benzo[a]anthracene	Lin	1.278	1.083	0.0000	18800	20000	-5.9	20.0
Chrysene	Ave	1.140	1.120	0.0000	19700	20000	-1.7	20.0
Benzo[b]fluoranthene	Ave	1.131	1.186	0.0000	21000	20000	4.9	20.0
Benzo[k]fluoranthene	Ave	1.094	1.154	0.0000	21100	20000	5.5	20.0
Benzo[a]pyrene	Ave	1.065	1.059	0.0000	19900	20000	-0.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.9173	0.0000	18100	20000	-9.3	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9301	0.0000	19900	20000	-0.4	20.0
Benzo[g,h,i]perylene	Ave	1.032	0.9894	0.0000	19200	20000	-4.1	20.0
o-Terphenyl	Lin	0.6233	0.6038	0.0000	19200	20000	-3.9	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 09-APR-2013 11:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.686	3.686	(1.000)	357710	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	263195	40.0000	
*	10 Phenanthrene-d10	188	5.716	5.716	(1.000)	531432	40.0000	(H)
$	14 o-Terphenyl	230	5.968	5.968	(1.044)	160437	20.0000	19.2211
*	18 Chrysene-d12	240	7.657	7.657	(1.000)	649492	40.0000	
*	23 Perylene-d12	264	8.827	8.827	(1.000)	642611	40.0000	(H)
	2 Naphthalene	128	3.698	3.698	(1.003)	188263	20.0000	20.4907
	3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	123987	20.0000	19.8245
	4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	114686	20.0000	20.3792
	5 Acenaphthylene	152	4.686	4.686	(0.982)	219463	20.0000	20.1471
	7 Acenaphthene	154	4.792	4.792	(1.004)	126111	20.0000	18.6920
	9 Fluorene	166	5.110	5.110	(1.070)	180366	20.0000	20.0537
	11 Phenanthrene	178	5.733	5.733	(1.003)	301210	20.0000	19.4608(H)
	12 Anthracene	178	5.768	5.768	(1.009)	306920	20.0000	19.5616(H)
	13 Carbazole	167	5.874	5.874	(1.028)	271183	20.0000	20.1739(H)
	15 Fluoranthene	202	6.568	6.568	(1.149)	348726	20.0000	20.4013(H)
	16 Pyrene	202	6.733	6.733	(0.879)	366676	20.0000	20.3805
	17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	351642	20.0000	18.8211
	19 Chrysene	228	7.674	7.674	(1.002)	363844	20.0000	19.6590
	20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	381044	20.0000	20.9743(H)
	21 Benzo(k)fluoranthene	252	8.509	8.509	(0.964)	370749	20.0000	21.1001
	22 Benzo(a)pyrene	252	8.768	8.768	(0.993)	340105	20.0000	19.8845(H)
	24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.128)	294723	20.0000	18.1418(MH)
	25 Dibenzo(a,h)anthracene	278	9.974	9.974	(1.130)	298832	20.0000	19.9128(H)
	26 Benzo(g,h,i)perylene	276	10.298	10.298	(1.167)	317908	20.0000	19.1736(H)

QC Flag Legend

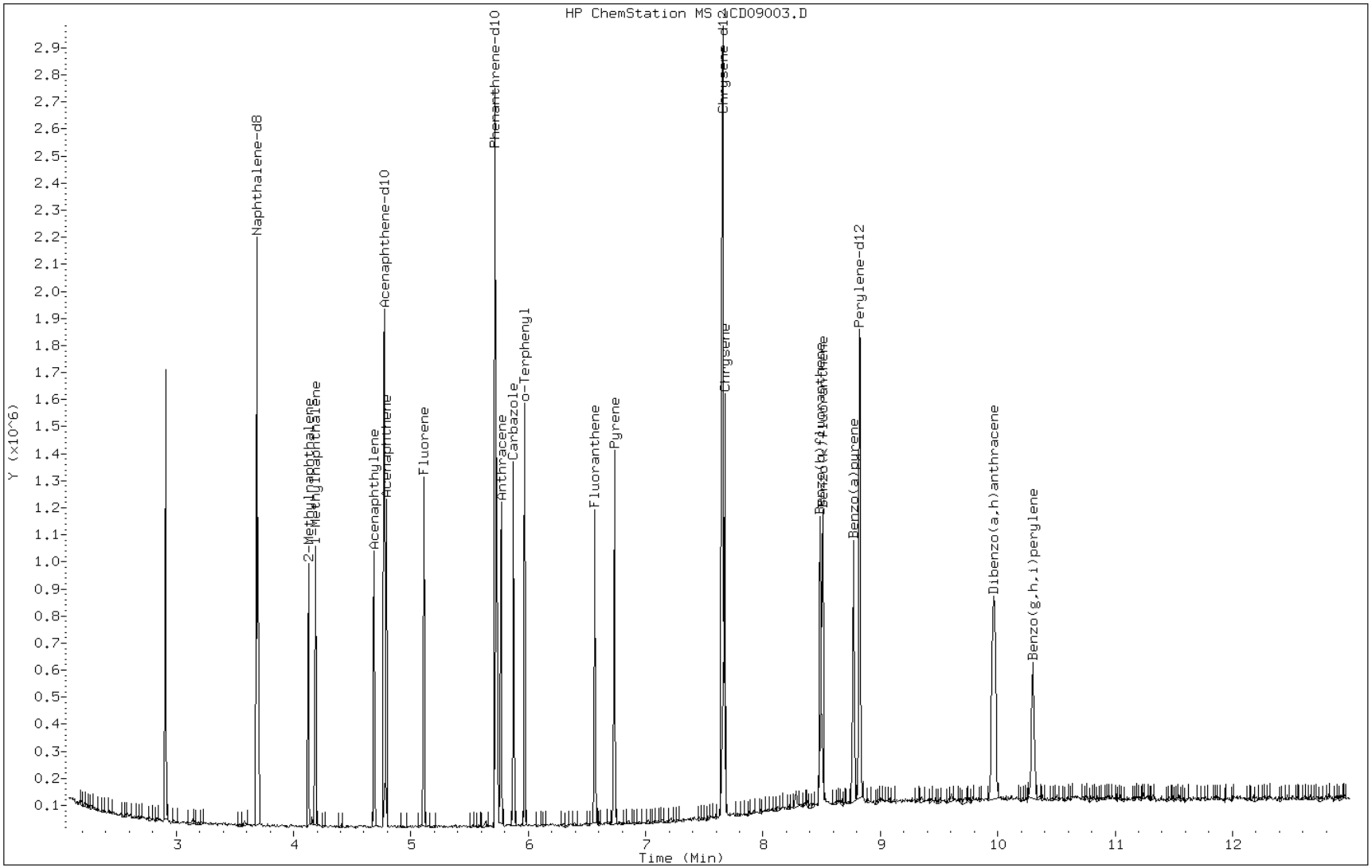
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD09003.D

Date: 09-APR-2013 11:47

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CD09003.D
Inj. Date and Time: 09-APR-2013 11:47
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

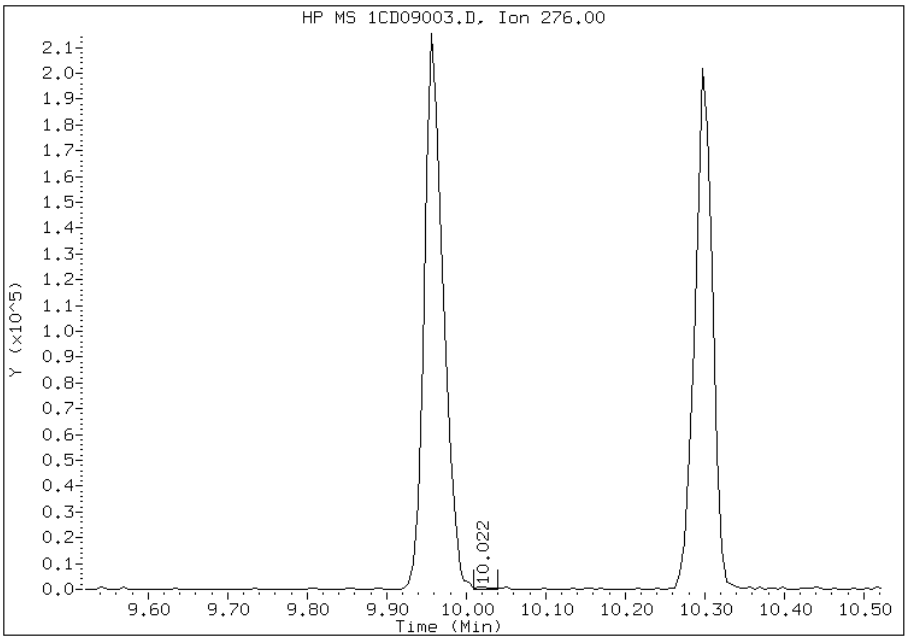
Processing Integration Results

RT: 10.02

Response: 1228

Amount: 0

Conc: 0



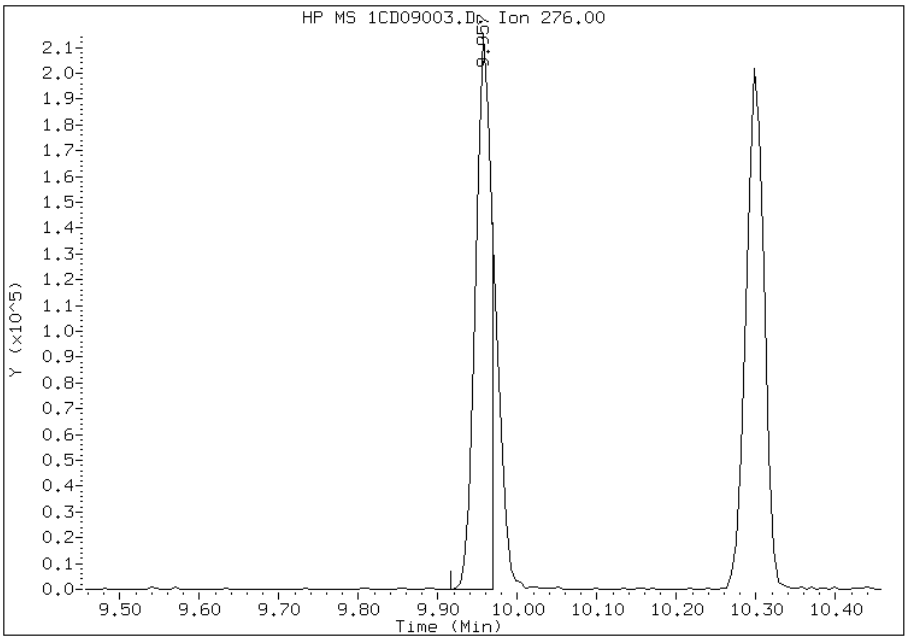
Manual Integration Results

RT: 9.96

Response: 294723

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 12:08
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Lab Sample ID: CCVIS 660-136309/3 Calibration Date: 04/10/2013 12:10

Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/02/2013 15:15

Lab File ID: 1CD10003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	0.996	0.0000	19400	20000	-3.1	20.0
2-Methylnaphthalene	Ave	0.6994	0.6277	0.0000	18000	20000	-10.2	20.0
1-Methylnaphthalene	Ave	0.6293	0.6353	0.0000	20200	20000	1.0	20.0
Acenaphthylene	Ave	1.656	1.700	0.0000	20500	20000	2.7	20.0
Acenaphthene	Lin	1.025	1.110	0.0000	21700	20000	8.3	20.0
Fluorene	Ave	1.367	1.302	0.0000	19100	20000	-4.7	20.0
Phenanthrene	Ave	1.165	1.213	0.0000	20800	20000	4.2	20.0
Anthracene	Ave	1.181	1.261	0.0000	21300	20000	6.7	20.0
Carbazole	Ave	1.012	1.032	0.0000	20400	20000	2.0	20.0
Fluoranthene	Ave	1.287	1.335	0.0000	20800	20000	3.8	20.0
Pyrene	Ave	1.108	1.109	0.0000	20000	20000	0.0	20.0
Benzo[a]anthracene	Lin	1.278	1.088	0.0000	18900	20000	-5.4	20.0
Chrysene	Ave	1.140	1.090	0.0000	19100	20000	-4.4	20.0
Benzo[b]fluoranthene	Ave	1.131	1.154	0.0000	20400	20000	2.0	20.0
Benzo[k]fluoranthene	Ave	1.094	1.129	0.0000	20600	20000	3.2	20.0
Benzo[a]pyrene	Ave	1.065	1.093	0.0000	20500	20000	2.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.8567	0.0000	16900	20000	-15.3	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9587	0.0000	20500	20000	2.6	20.0
Benzo[g,h,i]perylene	Ave	1.032	1.029	0.0000	19900	20000	-0.3	20.0
o-Terphenyl	Lin	0.6233	0.6564	0.0000	20800	20000	4.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 10-APR-2013 12:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	3.680	3.680	(1.000)	324897	40.0000	
* 6 Acenaphthene-d10	164	4.768	4.768	(1.000)	222702	40.0000	
* 10 Phenanthrene-d10	188	5.710	5.710	(1.000)	427547	40.0000	
$ 14 o-Terphenyl	230	5.963	5.963	(1.044)	140327	20.0000	20.8335
* 18 Chrysene-d12	240	7.645	7.645	(1.000)	562910	40.0000	(H)
* 23 Perylene-d12	264	8.809	8.809	(1.000)	541225	40.0000	(H)
2 Naphthalene	128	3.692	3.692	(1.003)	161745	20.0000	19.3824
3 2-Methylnaphthalene	142	4.121	4.121	(1.120)	101969	20.0000	17.9506
4 1-Methylnaphthalene	142	4.180	4.180	(1.136)	103201	20.0000	20.1905
5 Acenaphthylene	152	4.680	4.680	(0.981)	189256	20.0000	20.5331
7 Acenaphthene	154	4.786	4.786	(1.004)	123651	20.0000	21.6598
9 Fluorene	166	5.104	5.104	(1.070)	145008	20.0000	19.0540
11 Phenanthrene	178	5.727	5.727	(1.003)	259408	20.0000	20.8323
12 Anthracene	178	5.763	5.763	(1.009)	269479	20.0000	21.3485
13 Carbazole	167	5.868	5.868	(1.028)	220592	20.0000	20.3977
15 Fluoranthene	202	6.557	6.557	(1.148)	285476	20.0000	20.7591
16 Pyrene	202	6.727	6.727	(0.880)	311994	20.0000	20.0085(H)
17 Benzo(a)anthracene	228	7.639	7.639	(0.999)	306247	20.0000	18.9119(H)
19 Chrysene	228	7.668	7.668	(1.003)	306644	20.0000	19.1168(H)
20 Benzo(b)fluoranthene	252	8.474	8.474	(0.962)	312222	20.0000	20.4054(H)
21 Benzo(k)fluoranthene	252	8.498	8.498	(0.965)	305560	20.0000	20.6477(H)
22 Benzo(a)pyrene	252	8.756	8.756	(0.994)	295893	20.0000	20.5403(H)
24 Indeno(1,2,3-cd)pyrene	276	9.939	9.939	(1.128)	231826	20.0000	16.9433(MH)
25 Dibenzo(a,h)anthracene	278	9.950	9.950	(1.130)	259424	20.0000	20.5251(H)
26 Benzo(g,h,i)perylene	276	10.280	10.280	(1.167)	278380	20.0000	19.9347(H)

QC Flag Legend

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

Data File: 1CD10003.D

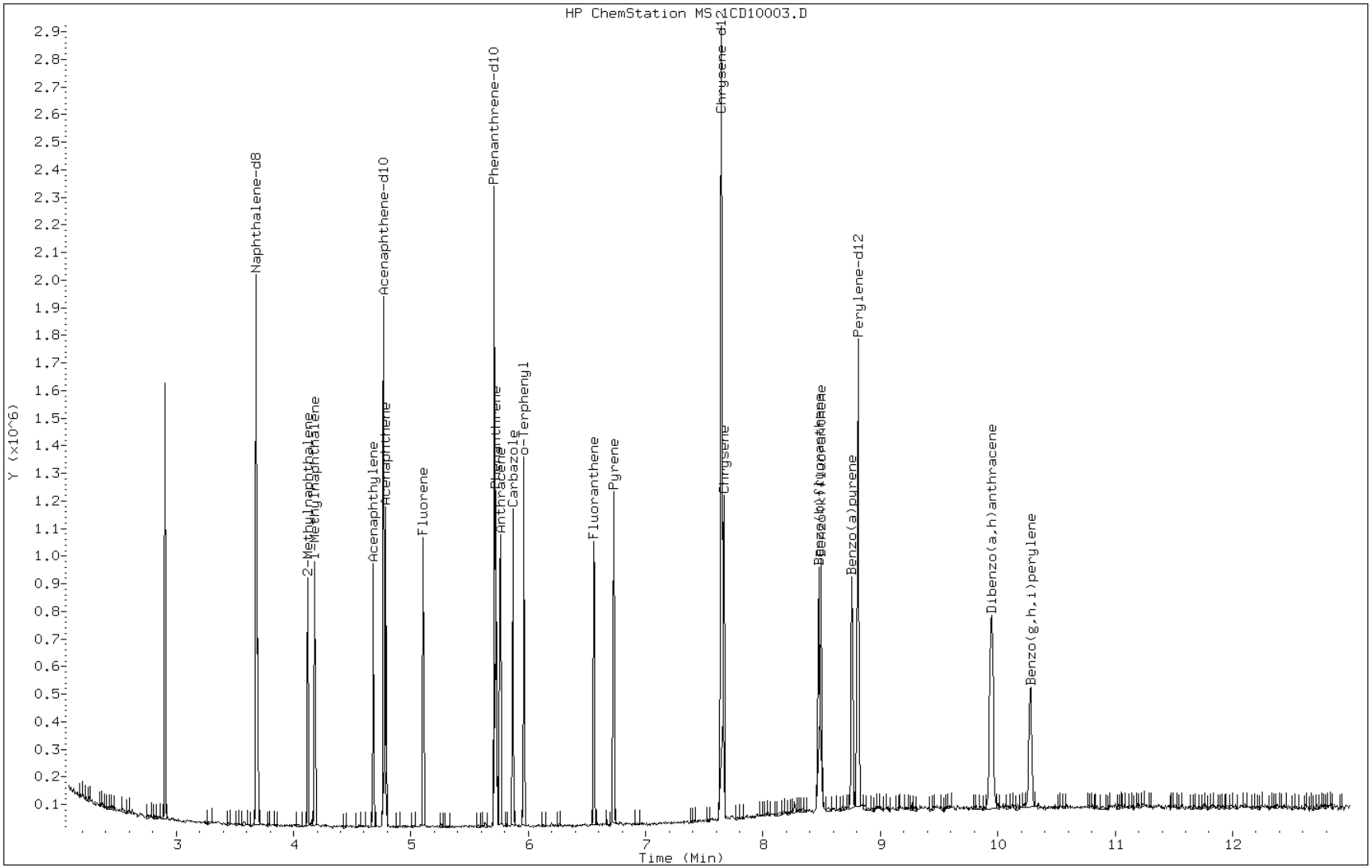
Date: 10-APR-2013 12:10

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC



Manual Integration Report

Data File: 1CD10003.D
Inj. Date and Time: 10-APR-2013 12:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

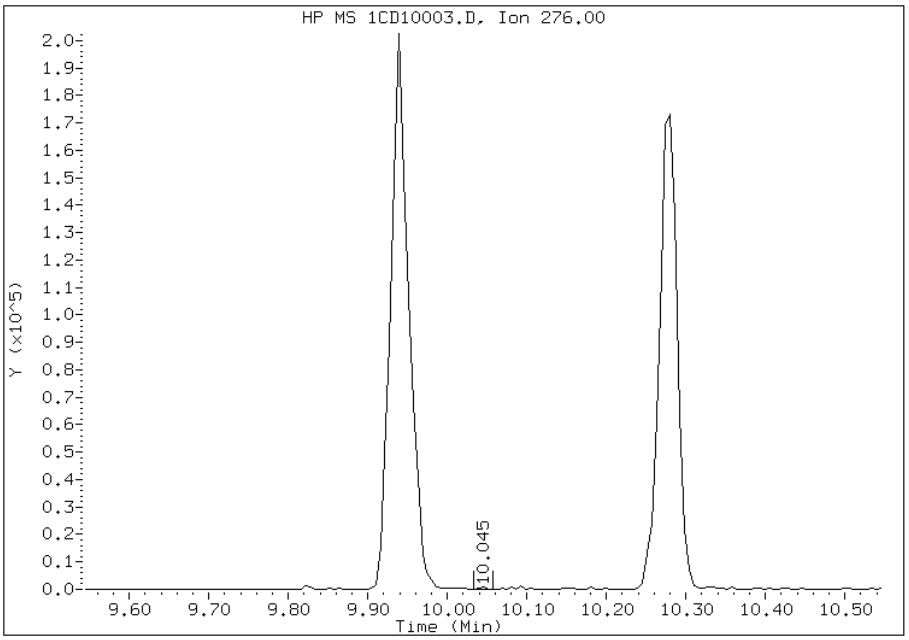
Processing Integration Results

RT: 10.05

Response: 517

Amount: 0

Conc: 0



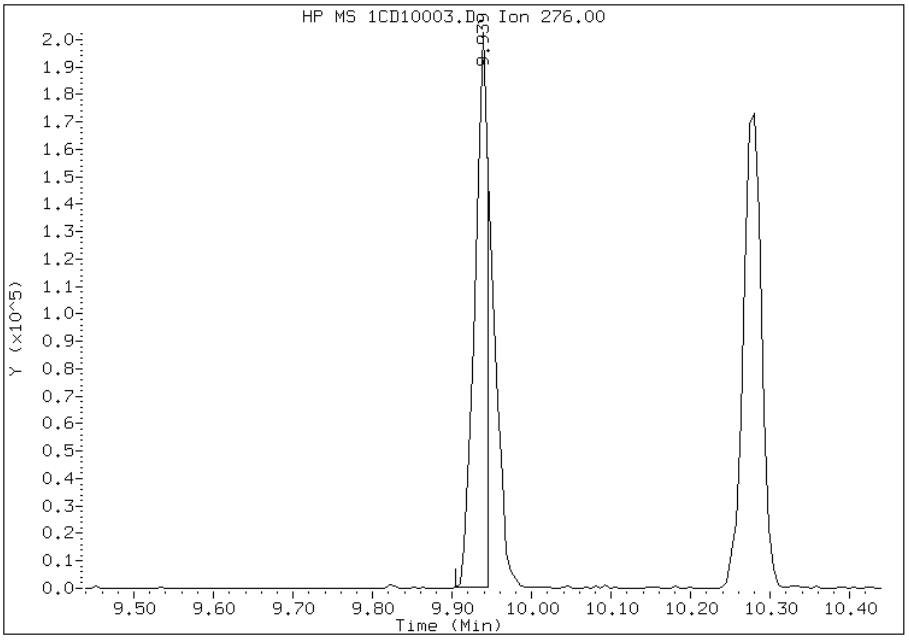
Manual Integration Results

RT: 9.94

Response: 231826

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 12:26
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913.b\1AD09002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 09-APR-2013 10:18
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

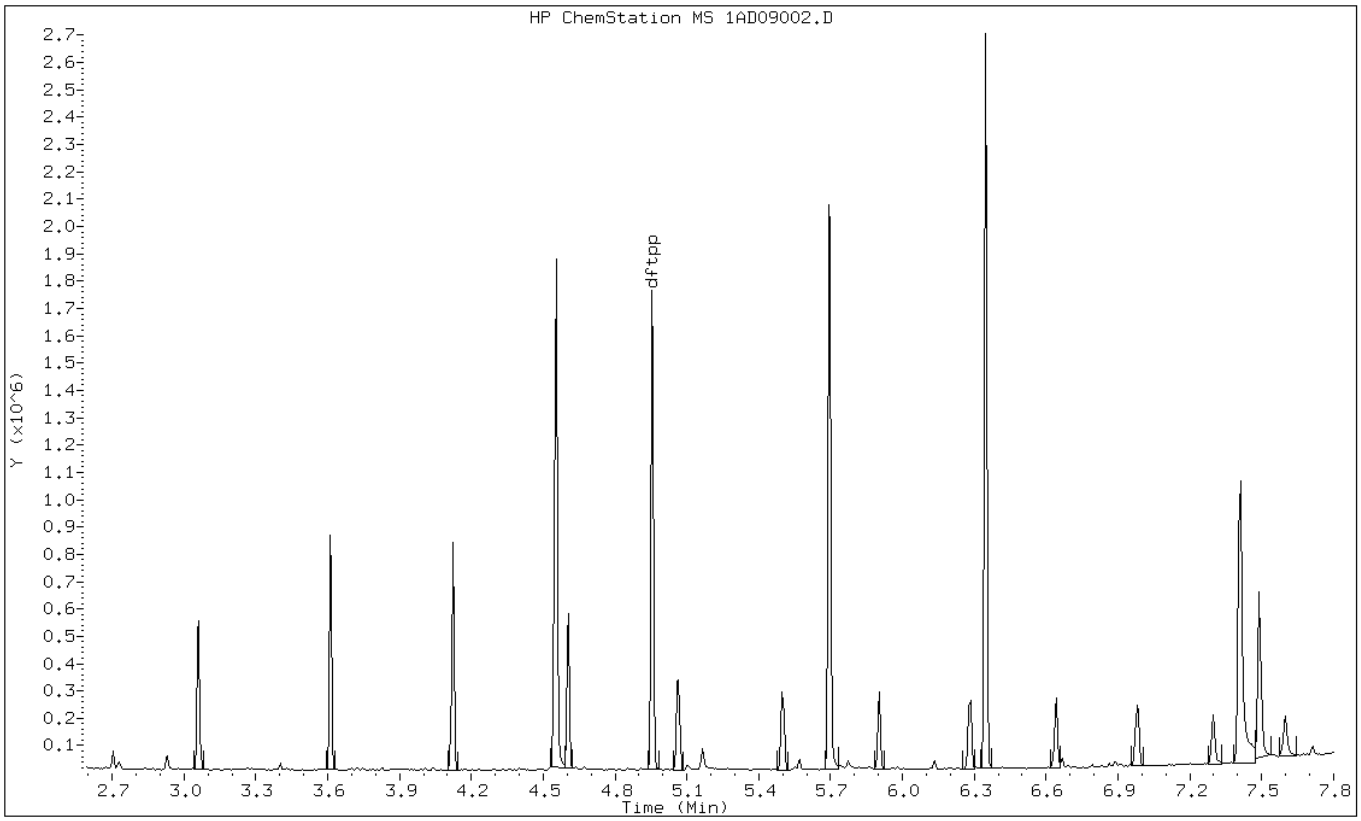
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.953	4.963	-0.010	198	207040			50.00- 0.00	100.00
4.953	4.963	-0.010	51	46512			10.00- 80.00	22.47
4.953	4.963	-0.010	68	0	0.0	0.0	0.00- 2.00	0.00
4.953	4.963	-0.010	69	50000			0.00- 0.00	24.15
4.953	4.963	-0.010	70	472			0.00- 2.00	0.94
4.953	4.963	-0.010	127	74616			10.00- 80.00	36.04
4.953	4.963	-0.010	197	0	0.0	0.0	0.00- 2.00	0.00
4.953	4.963	-0.010	442	168320			50.00- 0.00	81.30
4.953	4.963	-0.010	199	12235			5.00- 9.00	5.91
4.953	4.963	-0.010	275	48480			10.00- 60.00	23.42
4.953	4.963	-0.010	365	4887			1.00- 0.00	2.36
4.953	4.963	-0.010	441	22920			0.01- 99.99	66.29
4.953	4.963	-0.010	443	34576			15.00- 24.00	20.54

Data File: 1AD09002.D

Date: 09-APR-2013 10:18

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC



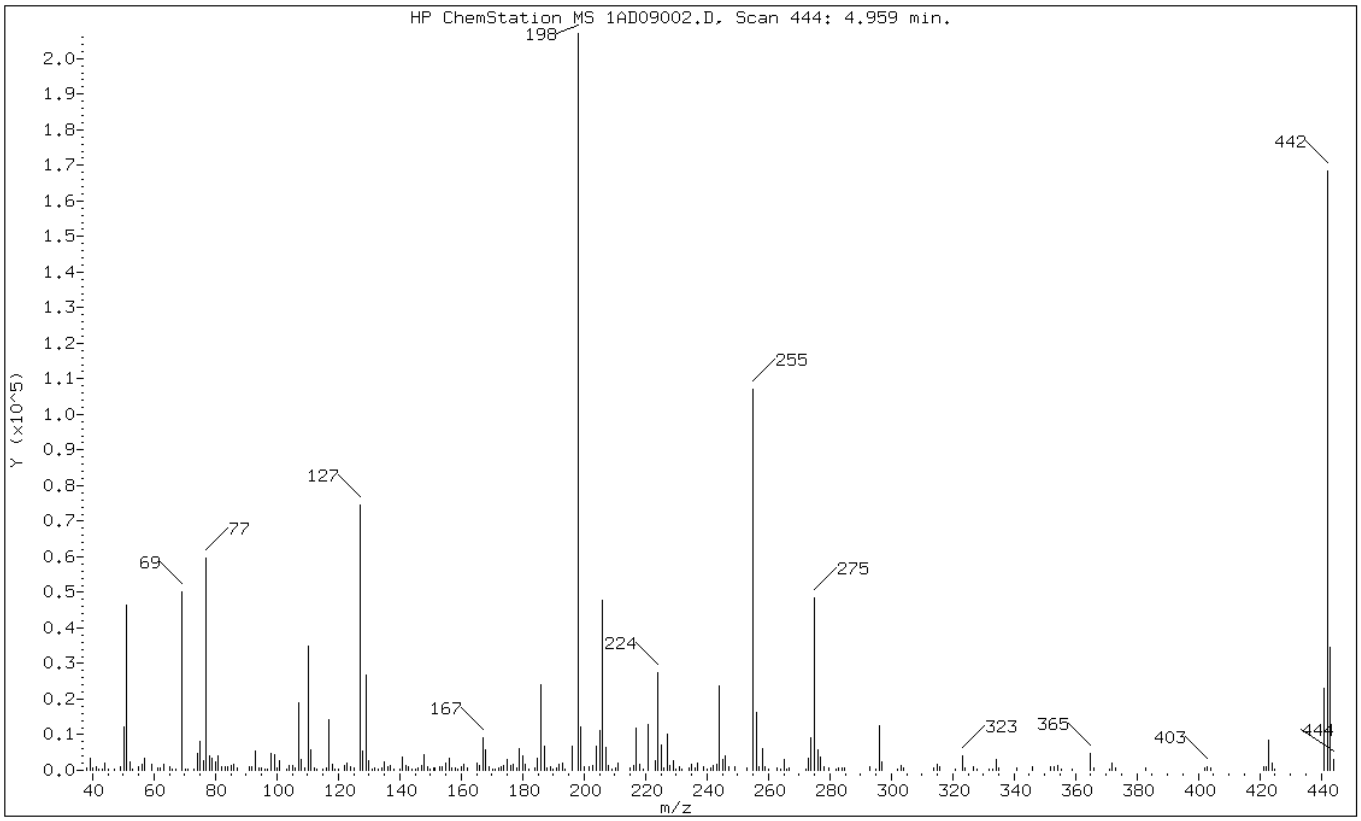
Data File: 1AD09002.D

Date: 09-APR-2013 10:18

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 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	22.47
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	24.15
70	Less than 2.00% of mass 69	0.23 (0.94)
127	10.00 - 80.00% of mass 198	36.04
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	81.30
199	5.00 - 9.00% of mass 198	5.91
275	10.00 - 60.00% of mass 198	23.42
365	Greater than 1.00% of mass 198	2.36
441	Present, but less than mass 443	11.07
443	15.00 - 24.00% of mass 442	16.70 (20.54)

Data File: 1AD09002.D

Date: 09-APR-2013 10:18

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09002.D
Spectrum: HP ChemStation MS 1AD09002.D, Scan 444: 4.959 min.
Location of Maximum: 197.95
Number of points: 250

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.05	716	113.05	287	182.05	412	262.85	837
39.05	3288	114.95	260	184.05	685	264.05	262
40.05	637	116.05	786	184.95	3245	265.05	3085
41.05	905	116.95	14104	186.05	23952	265.85	489
42.05	268	118.05	1553	187.05	6730	266.75	708
43.05	372	118.95	395	188.05	796	272.05	305
44.05	1930	120.05	285	188.95	1066	273.05	3273
44.95	258	121.95	1391	189.95	280	273.95	9212
46.95	393	122.95	1965	190.95	573	275.05	48480
49.05	1184	124.05	1110	191.95	1637	276.05	5837
50.05	12192	125.05	831	193.05	2179	276.95	3876
51.05	46512	127.05	74616	193.95	497	277.95	1024
52.05	2262	127.95	5504	195.95	6847	279.85	594
53.05	279	128.95	26800	197.95	207040	281.85	271
55.05	1000	129.95	2867	198.95	12235	282.95	548
55.95	1734	131.05	338	199.95	1104	284.05	517
57.05	3403	131.95	684	201.65	899	284.95	801
59.05	1740	132.85	258	202.95	1200	292.95	878
61.05	739	134.05	809	204.05	6764	295.05	344
62.05	522	135.05	2363	205.05	11191	296.05	12678
63.05	1818	136.05	1098	206.05	47720	296.95	2210
65.05	1123	137.05	1494	207.05	6373	302.05	310
65.95	318	137.95	318	207.85	1394	303.05	1513
67.05	258	139.95	460	209.05	500	304.15	584
68.95	50000	140.95	3721	210.15	811	313.95	775
70.05	472	141.95	1508	210.95	1866	315.05	1532
71.05	503	142.95	1111	214.95	556	315.95	902
73.05	334	143.85	325	215.95	1398	321.05	496
74.05	4653	144.95	415	216.95	11927	323.05	4111
74.95	8058	146.05	703	217.95	1708	324.05	642
76.05	2567	147.05	1463	219.15	316	326.95	983
77.05	59696	148.05	4281	220.95	12964	327.95	328
78.05	3995	148.95	1163	223.05	2625	331.95	344
78.95	3445	149.95	396	224.05	27368	332.95	287
80.05	2409	151.05	565	225.05	7203	334.05	3031
80.95	4123	151.55	529	226.05	731	335.05	755
82.05	985	152.95	1127	226.95	10124	341.05	710
83.05	1159	153.95	1150	227.95	1439	346.05	1051
84.05	1102	154.95	2133	228.95	2725	351.95	1046
84.95	1190	156.05	3267	229.95	337	352.95	987

85.95	1589	156.95	716	231.05	1113	354.05	1367
86.95	702	157.95	686	231.95	309	355.25	323
91.05	1159	158.95	503	234.05	655	359.05	283
91.95	1117	159.95	1137	234.95	1534	364.95	4887
93.05	5493	160.95	1704	236.05	555	365.85	758
93.95	622	161.85	622	236.95	1870	371.05	319
95.05	687	164.95	1932	238.85	1158	372.05	1941
95.95	441	165.95	1214	239.95	391	373.05	662
97.05	360	166.95	9057	241.05	760	382.95	678
98.05	4781	167.95	5863	242.05	1486	401.95	764
99.05	4415	168.95	1139	243.05	1685	403.05	1155
99.95	565	170.05	417	244.05	23608	403.95	514
100.95	2650	171.05	489	245.05	3079	421.15	888
103.05	440	172.05	688	246.05	4078	421.95	1036
103.95	1377	172.95	974	246.95	915	423.05	8420
104.95	1463	173.95	1504	249.05	1030	423.95	1901
105.95	617	175.05	3172	253.05	690	424.85	265
106.95	19056	175.95	1258	255.05	107120	440.95	22920
108.05	3170	176.95	1768	256.05	16161	442.05	168320
109.05	661	178.05	579	256.95	1147	443.05	34576
110.05	34936	178.95	6169	257.95	5936	444.05	3040
111.05	5746	179.95	4186	258.95	951		
112.05	755	180.95	1806	260.05	252		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 02-APR-2013 11:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

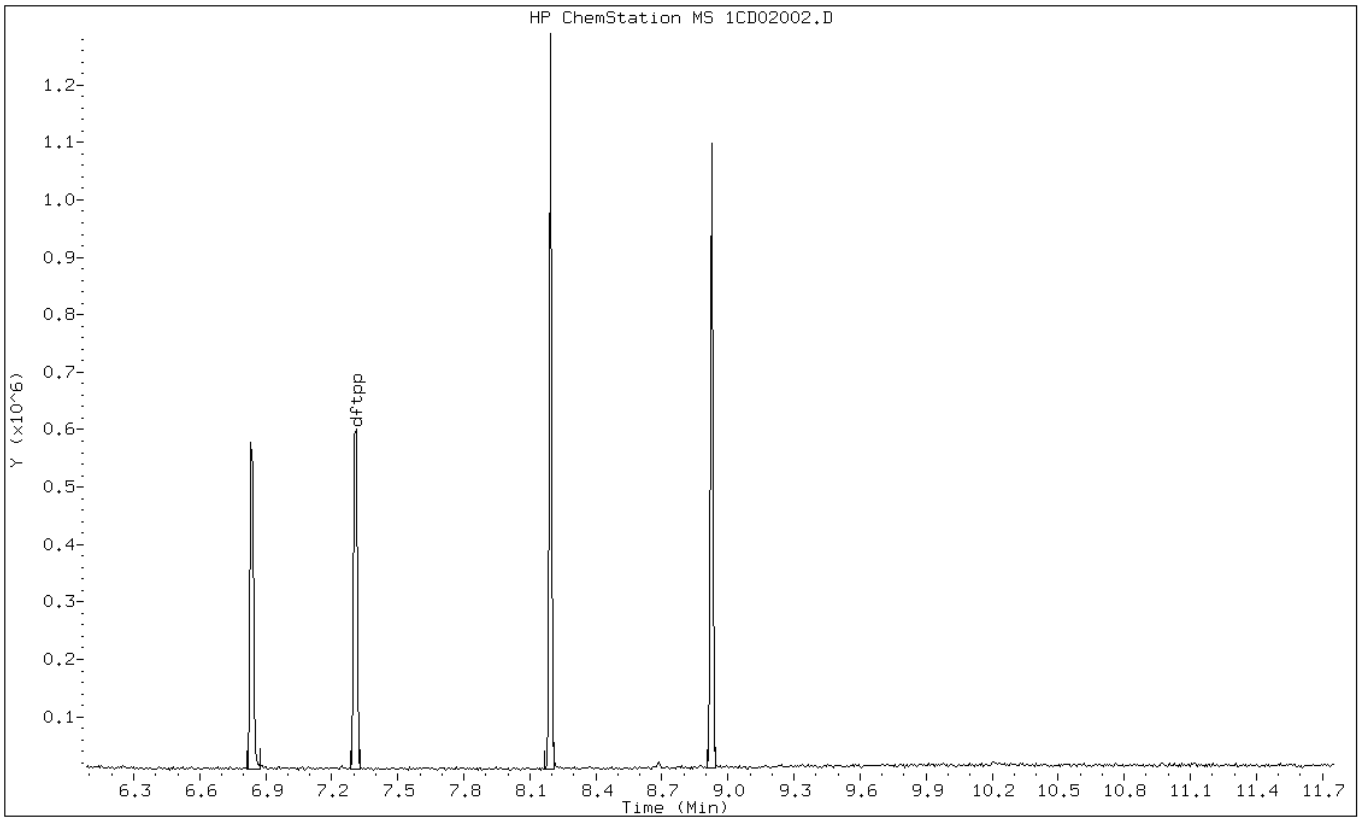
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.310	7.469	-0.159	198	70432			50.00- 0.00	100.00
7.310	7.469	-0.159	51	24576			10.00- 80.00	34.89
7.310	7.469	-0.159	68	571			0.00- 2.00	1.62
7.310	7.469	-0.159	69	35176			0.00- 0.00	49.94
7.310	7.469	-0.159	70	308			0.00- 2.00	0.88
7.310	7.469	-0.159	127	29688			10.00- 80.00	42.15
7.310	7.469	-0.159	197	310			0.00- 2.00	0.44
7.310	7.469	-0.159	442	39944			50.00- 0.00	56.71
7.310	7.469	-0.159	199	5383			5.00- 9.00	7.64
7.310	7.469	-0.159	275	15117			10.00- 60.00	21.46
7.310	7.469	-0.159	365	2390			1.00- 0.00	3.39
7.310	7.469	-0.159	441	7169			0.01- 99.99	92.67
7.310	7.469	-0.159	443	7736			15.00- 24.00	19.37

Data File: 1CD02002.D

Date: 02-APR-2013 11:31

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



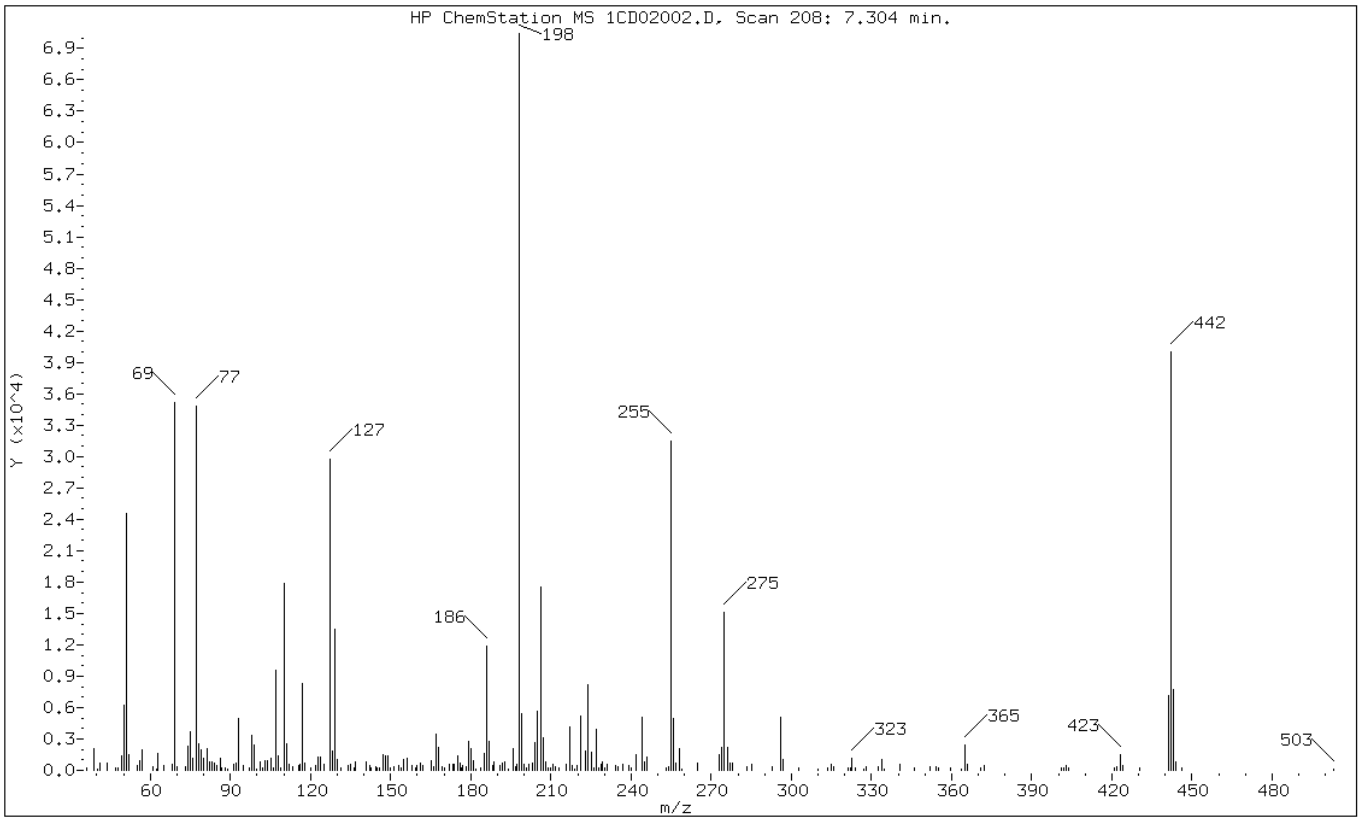
Data File: 1CD02002.D

Date: 02-APR-2013 11:31

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	34.89
68	Less than 2.00% of mass 69	0.81 (1.62)
69	Mass 69 relative abundance	49.94
70	Less than 2.00% of mass 69	0.44 (0.88)
127	10.00 - 80.00% of mass 198	42.15
197	Less than 2.00% of mass 198	0.44
442	Greater than 50.00% of mass 198	56.71
199	5.00 - 9.00% of mass 198	7.64
275	10.00 - 60.00% of mass 198	21.46
365	Greater than 1.00% of mass 198	3.39
441	Present, but less than mass 443	10.18
443	15.00 - 24.00% of mass 442	10.98 (19.37)

Data File: 1CD02002.D

Date: 02-APR-2013 11:31

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213_PAHIC.b\1CD02002.D
Spectrum: HP ChemStation MS 1CD02002.D, Scan 208: 7.304 min.
Location of Maximum: 198.00
Number of points: 229

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.20	191	113.10	351	185.10	1649	258.00	2060
39.00	2089	115.80	410	186.00	11880	259.00	166
40.10	156	116.20	563	187.00	2755	265.00	700
41.20	672	117.00	8338	188.30	505	273.00	1556
44.00	691	118.00	714	188.80	850	274.00	2191
46.90	264	120.20	251	190.90	451	275.00	15117
48.00	207	122.00	433	192.00	717	276.10	2178
49.10	1329	122.90	1302	192.90	774	276.90	747
50.10	6281	123.80	1270	193.90	161	278.10	714
51.10	24576	125.10	560	195.90	2063	283.20	367
52.10	1487	127.10	29688	196.70	310	285.10	604
55.00	486	128.00	1837	197.10	545	293.00	386
56.10	964	129.10	13517	198.00	70432	296.00	5053
57.00	1965	130.00	1041	199.00	5383	297.00	1014
60.80	304	131.20	273	200.10	567	302.80	285
62.30	156	134.00	480	200.60	270	310.10	151
63.00	1637	134.90	620	201.50	554	313.70	217
65.00	481	136.20	200	203.00	654	315.00	561
68.10	571	137.00	811	204.10	2706	316.00	397
69.00	35176	140.90	765	205.10	5687	321.20	252
69.90	308	142.10	410	206.10	17552	322.00	188
73.00	304	142.70	282	207.10	3108	322.80	1174
74.10	2331	144.30	362	208.00	798	324.00	267
75.00	3676	145.00	189	208.90	282	327.10	153
76.00	1155	145.90	247	210.00	219	328.20	395
77.10	34856	147.10	1448	210.90	584	332.70	292
78.10	2489	148.00	1427	211.50	320	333.90	1034
79.10	1952	149.00	1344	213.00	214	334.60	151
80.10	1105	150.00	235	215.70	551	340.80	534
81.10	2019	151.00	357	217.00	4128	346.10	272
82.00	853	153.00	443	217.90	509	352.10	376
83.00	779	153.90	266	218.80	152	354.20	383
83.80	657	155.00	984	219.60	431	354.90	200
84.90	486	156.00	1110	221.00	5183	359.50	267
86.10	1181	157.80	502	223.10	1793	363.80	168
86.90	260	159.30	205	224.00	8192	365.00	2390
88.00	245	159.90	477	225.20	1759	365.90	597
89.10	155	161.10	679	226.10	240	370.80	193
91.10	583	162.00	441	227.00	3893	372.00	411
92.10	667	165.10	934	227.90	218	401.00	218

93.00	5005	166.00	385	228.70	623	402.10	194
95.00	495	167.00	3405	229.10	783	402.90	407
96.90	195	168.00	2215	230.00	287	403.80	197
98.00	3343	169.20	374	231.10	622	420.70	267
99.00	2408	170.30	186	234.00	423	421.10	211
100.00	162	172.10	634	234.90	390	422.00	318
101.00	782	173.10	602	236.90	598	423.00	1535
102.10	189	173.70	532	239.10	486	424.00	439
103.10	884	175.10	1337	240.10	221	430.30	186
104.00	939	176.00	727	242.00	1442	441.00	7169
105.00	1194	176.60	217	244.10	5072	442.00	39944
106.00	180	177.10	501	245.20	829	443.00	7736
107.00	9612	178.10	387	246.00	1322	444.00	786
108.00	1350	179.00	2811	253.10	269	446.00	182
109.00	183	180.10	2065	254.10	289	503.00	171
110.00	17856	181.00	967	255.00	31424		
111.00	2511	181.80	164	256.00	4972		
112.10	622	183.90	209	256.90	650		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 09-APR-2013 11:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.280	7.469	-0.189	198	74928			50.00- 0.00	100.00
7.280	7.469	-0.189	51	28256			10.00- 80.00	37.71
7.280	7.469	-0.189	68	439			0.00- 2.00	1.19
7.280	7.469	-0.189	69	36832			0.00- 0.00	49.16
7.280	7.469	-0.189	70	0	0.0	0.0	0.00- 2.00	0.00
7.280	7.469	-0.189	127	33536			10.00- 80.00	44.76
7.280	7.469	-0.189	197	488			0.00- 2.00	0.65
7.280	7.469	-0.189	442	60896			50.00- 0.00	81.27
7.280	7.469	-0.189	199	4873			5.00- 9.00	6.50
7.280	7.469	-0.189	275	14347			10.00- 60.00	19.15
7.280	7.469	-0.189	365	3358			1.00- 0.00	4.48
7.280	7.469	-0.189	441	9103			0.01- 99.99	67.61
7.280	7.469	-0.189	443	13464			15.00- 24.00	22.11

Data File: 1CD09002.D

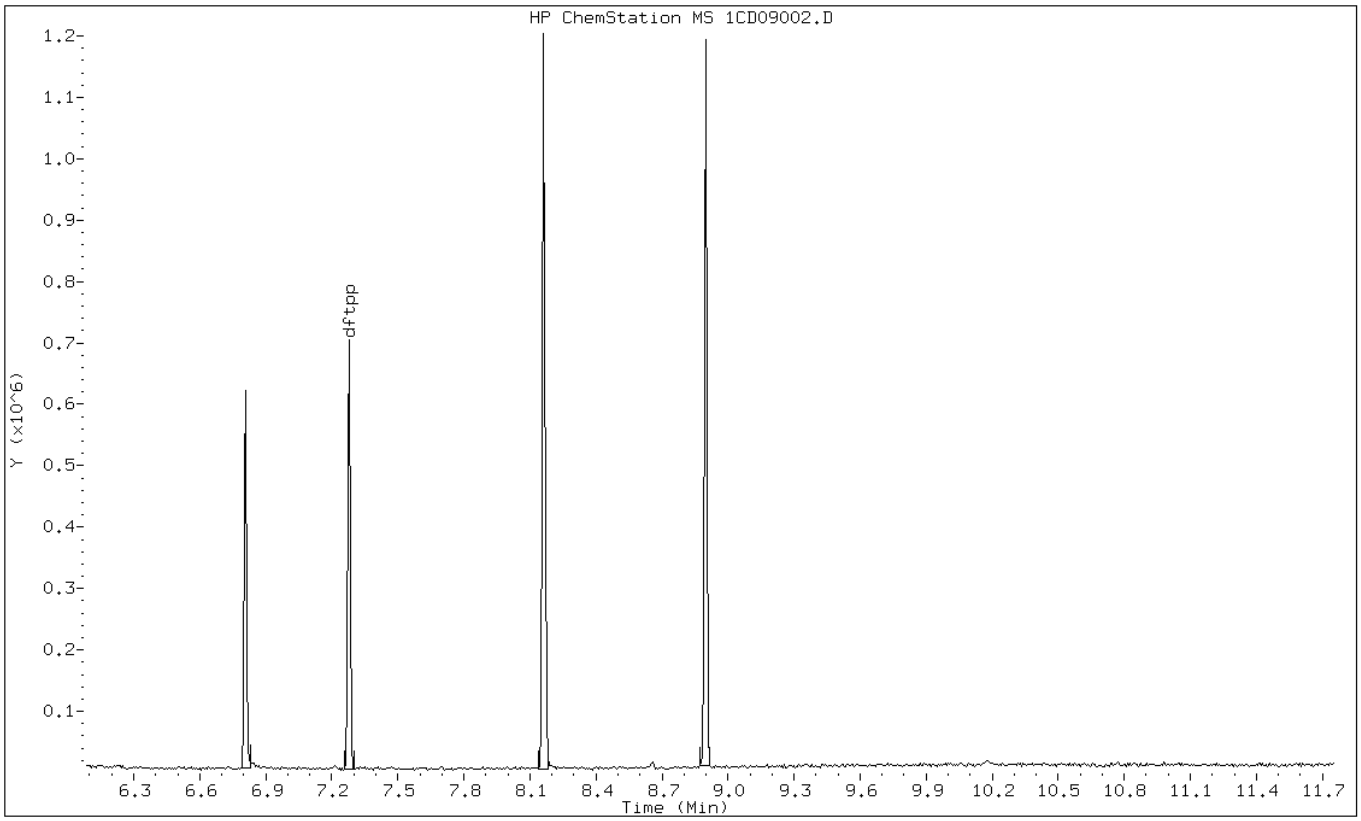
Date: 09-APR-2013 11:31

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



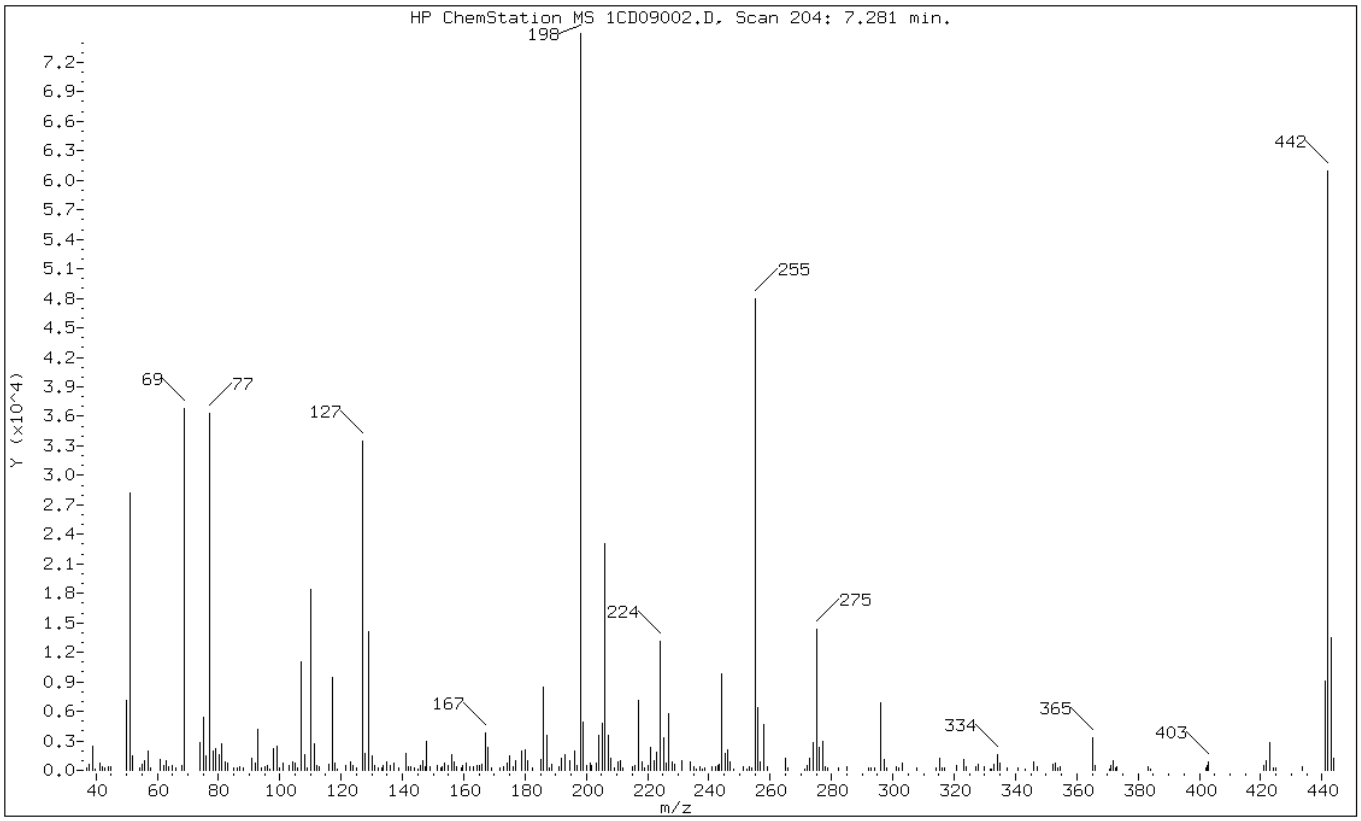
Data File: 1CD09002.D

Date: 09-APR-2013 11:31

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	37.71
68	Less than 2.00% of mass 69	0.59 (1.19)
69	Mass 69 relative abundance	49.16
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	44.76
197	Less than 2.00% of mass 198	0.65
442	Greater than 50.00% of mass 198	81.27
199	5.00 - 9.00% of mass 198	6.50
275	10.00 - 60.00% of mass 198	19.15
365	Greater than 1.00% of mass 198	4.48
441	Present, but less than mass 443	12.15
443	15.00 - 24.00% of mass 442	17.97 (22.11)

Data File: 1CD09002.D

Date: 09-APR-2013 11:31

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09002.D
Spectrum: HP ChemStation MS 1CD09002.D, Scan 204: 7.281 min.
Location of Maximum: 198.00
Number of points: 256

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	303	121.70	501	197.00	488	277.00	2932
37.90	644	123.00	803	198.00	74928	277.80	317
39.10	2437	123.80	456	198.90	4873	278.90	244
39.90	183	125.10	284	200.00	503	282.10	289
41.20	713	127.10	33536	201.30	734	285.10	385
42.10	366	127.90	1719	201.60	542	292.00	202
42.90	295	129.10	14144	203.10	759	292.90	209
44.00	392	130.10	1532	204.00	3512	294.00	258
45.00	374	130.90	456	205.10	4815	296.00	6866
50.10	7102	132.10	256	206.00	23080	297.10	1131
51.10	28256	133.10	250	207.10	3594	297.80	186
52.10	1481	133.80	480	208.00	1243	301.10	371
54.10	185	134.80	870	209.00	290	301.80	227
55.00	604	136.00	478	210.30	836	302.90	771
56.00	1018	137.10	750	211.10	952	307.70	238
57.10	1912	138.70	279	212.10	250	314.00	209
58.00	210	141.00	1665	215.00	372	315.10	1231
61.00	1106	142.10	403	215.90	508	316.00	255
62.00	481	142.60	351	217.00	7162	316.80	300
63.00	992	143.80	198	218.00	860	320.90	493
63.90	313	145.10	182	218.90	222	323.00	1104
65.00	449	145.90	492	220.30	499	324.10	311
66.10	233	146.80	950	221.10	2282	326.90	359
68.00	439	147.30	406	222.10	1001	327.80	604
69.00	36832	148.00	2884	223.10	1791	330.00	316
74.00	2854	149.00	385	224.00	13135	331.90	155
75.10	5362	151.50	517	225.10	3344	332.20	153
76.10	1470	152.50	251	226.00	688	333.00	609
77.10	36312	153.00	376	227.00	5786	334.10	1631
78.10	2001	153.70	719	228.00	866	334.90	679
79.00	2216	155.10	461	228.80	569	337.20	239
80.10	1539	156.00	1563	231.00	1026	341.00	186
81.10	2665	157.00	913	234.10	806	343.00	154
82.10	881	157.80	307	235.10	413	345.90	816
82.90	715	159.20	240	235.80	162	347.00	406
85.00	303	159.80	459	237.00	417	352.10	610
86.20	286	160.90	719	237.90	152	353.00	746
86.90	318	161.80	321	238.80	302	353.90	244
88.00	215	163.10	332	241.00	381	354.50	346
91.00	1216	164.20	510	242.00	328	365.10	3358

92.10	686	165.00	546	242.90	526	365.80	496
93.00	4154	166.00	574	243.20	576	370.50	169
94.00	185	167.10	3830	244.00	9803	371.20	430
95.20	351	168.00	2374	245.20	1718	371.90	983
96.10	467	168.90	256	246.00	2069	372.70	286
96.80	171	171.90	304	247.00	822	373.10	335
98.00	2209	173.00	341	248.10	163	383.30	385
99.00	2438	174.10	763	251.10	337	383.90	155
100.00	300	175.00	1496	252.40	163	402.10	290
101.00	754	176.00	389	253.10	334	402.70	487
102.90	507	177.00	954	253.80	239	403.10	909
104.10	903	178.90	1968	254.10	268	420.90	465
105.00	744	180.00	2029	255.00	47920	421.90	1005
105.90	301	180.90	925	256.00	6320	423.00	2778
107.10	10987	182.30	220	256.80	813	424.10	230
108.00	1572	185.00	1056	258.00	4623	424.80	259
109.10	194	186.10	8474	258.90	382	433.40	342
110.00	18384	187.10	3502	265.00	1260	441.10	9103
111.10	2683	187.80	275	265.90	256	442.00	60896
112.00	467	188.90	605	271.20	174	443.10	13464
112.70	361	191.00	386	272.20	439	443.80	1239
115.90	568	192.00	1215	272.90	1213		
117.10	9483	193.00	1616	274.00	2823		
118.00	710	194.80	989	275.00	14347		
118.90	182	196.00	1937	276.00	2307		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 10-APR-2013 11:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

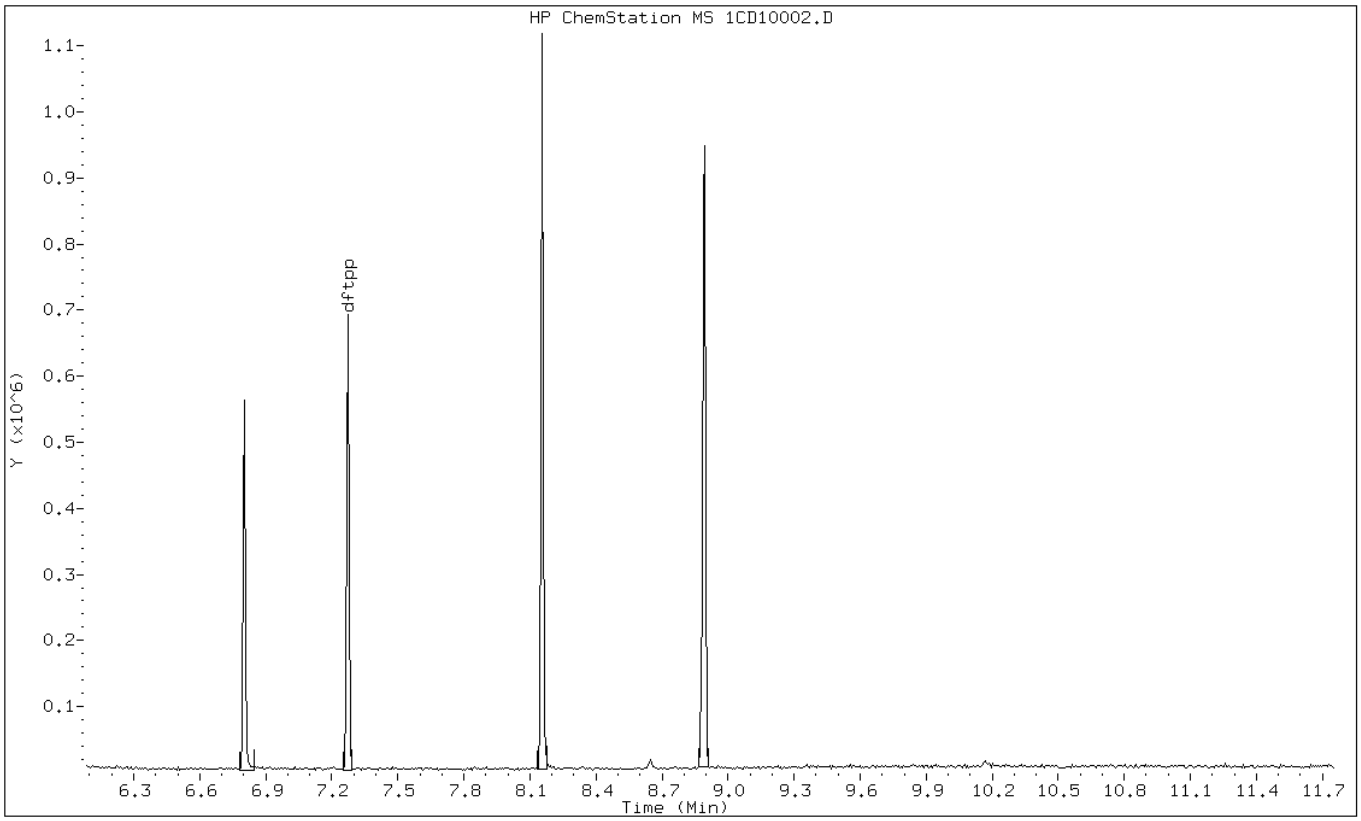
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.274	7.469	-0.195	198	74016			50.00- 0.00	100.00
7.274	7.469	-0.195	51	29368			10.00- 80.00	39.68
7.274	7.469	-0.195	68	320			0.00- 2.00	0.87
7.274	7.469	-0.195	69	36584			0.00- 0.00	49.43
7.274	7.469	-0.195	70	0	0.0	0.0	0.00- 2.00	0.00
7.274	7.469	-0.195	127	34560			10.00- 80.00	46.69
7.274	7.469	-0.195	197	775			0.00- 2.00	1.05
7.274	7.469	-0.195	442	50880			50.00- 0.00	68.74
7.274	7.469	-0.195	199	5085			5.00- 9.00	6.87
7.274	7.469	-0.195	275	14724			10.00- 60.00	19.89
7.274	7.469	-0.195	365	3333			1.00- 0.00	4.50
7.274	7.469	-0.195	441	9455			0.01- 99.99	98.91
7.274	7.469	-0.195	443	9559			15.00- 24.00	18.79

Data File: 1CD10002.D

Date: 10-APR-2013 11:53

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



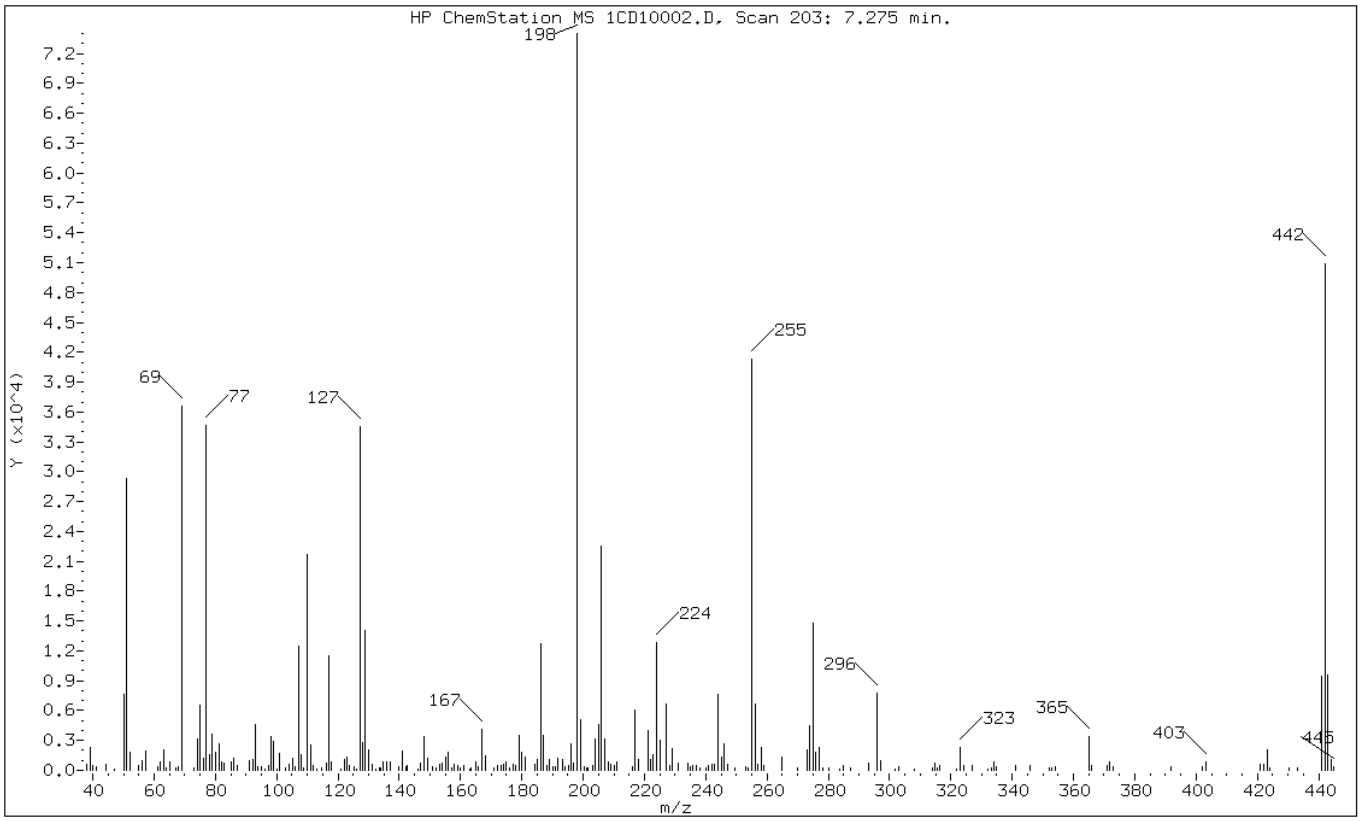
Data File: 1CD10002.D

Date: 10-APR-2013 11:53

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	39.68
68	Less than 2.00% of mass 69	0.43 (0.87)
69	Mass 69 relative abundance	49.43
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	46.69
197	Less than 2.00% of mass 198	1.05
442	Greater than 50.00% of mass 198	68.74
199	5.00 - 9.00% of mass 198	6.87
275	10.00 - 60.00% of mass 198	19.89
365	Greater than 1.00% of mass 198	4.50
441	Present, but less than mass 443	12.77
443	15.00 - 24.00% of mass 442	12.91 (18.79)

Data File: 1CD10002.D

Date: 10-APR-2013 11:53

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10002.D
Spectrum: HP ChemStation MS 1CD10002.D, Scan 203: 7.275 min.
Location of Maximum: 198.00
Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	588	117.00	11552	187.10	3456	265.00	1361
39.10	2283	118.00	865	188.10	451	269.90	182
40.00	436	121.00	158	189.10	1045	273.10	2109
41.00	367	122.10	1037	190.30	359	274.00	4514
44.10	612	123.10	1390	191.10	324	275.00	14724
47.10	165	123.90	544	191.90	1179	276.00	1786
50.10	7573	125.20	377	193.10	1042	277.00	2360
51.10	29368	126.00	174	193.90	344	278.10	229
52.20	1822	127.10	34560	195.30	427	280.30	183
55.10	485	128.00	2734	196.00	2710	283.70	172
56.00	1009	129.00	14094	197.00	775	285.00	506
57.10	1969	130.00	2008	198.00	74016	287.10	197
61.00	357	131.10	561	199.00	5085	293.10	696
61.90	839	132.20	181	200.20	364	296.00	7743
63.00	2029	133.70	236	201.00	199	297.00	920
63.90	206	134.10	210	201.60	228	301.80	155
65.10	799	134.90	795	203.10	494	302.90	410
67.10	292	135.90	796	204.10	3201	307.90	170
67.80	320	136.90	795	205.00	4579	313.80	207
69.10	36584	140.00	324	206.00	22512	314.80	673
73.00	272	141.00	1920	207.00	3181	315.70	295
74.10	3103	142.10	375	208.10	906	316.20	468
75.10	6509	142.70	541	209.00	626	321.90	170
76.00	1244	146.20	174	210.30	521	323.10	2294
77.10	34696	147.00	681	211.10	788	324.20	438
78.10	1525	148.00	3382	215.90	358	327.00	429
79.00	3606	149.10	1170	217.00	6035	332.00	155
80.00	1792	150.90	304	218.00	1106	333.10	228
81.10	2669	152.20	185	221.10	3994	334.00	824
82.00	851	153.00	550	221.90	1066	335.00	373
83.00	683	154.10	768	222.90	1605	341.00	487
85.10	833	155.20	1295	224.00	12896	345.90	518
86.10	1248	156.00	1788	225.00	3054	352.00	236
87.00	540	157.00	297	227.00	6635	352.90	263
91.10	965	158.00	572	228.10	471	354.00	312
92.10	1037	158.90	495	229.00	2185	365.10	3333
93.00	4551	159.90	292	230.90	751	365.80	474
93.90	344	161.00	440	234.10	720	370.90	468
95.20	334	162.90	179	235.00	337	371.90	880
96.10	157	163.40	245	235.90	433	373.10	322

97.20	470	164.90	837	236.80	442	391.90	344
98.00	3406	165.90	333	238.10	184	402.00	409
99.10	2905	167.00	4175	240.10	196	403.10	813
100.00	181	168.10	1414	241.00	507	420.90	613
101.00	1665	170.70	257	242.00	605	422.00	591
103.00	241	172.00	474	242.90	562	423.10	2023
104.10	624	173.10	512	244.00	7599	424.10	286
105.10	1243	174.00	595	245.00	1393	430.30	264
106.20	404	175.00	881	246.00	2690	433.30	184
107.10	12444	176.10	291	247.10	611	441.10	9455
108.10	1618	177.00	591	249.70	190	442.00	50880
108.90	279	178.10	490	253.20	383	443.00	9559
110.00	21720	179.00	3472	253.90	265	444.00	1143
111.00	2561	180.00	1837	255.00	41368	444.90	333
111.90	536	181.10	1372	256.10	6633		
112.90	159	184.20	644	257.00	613		
114.70	215	184.90	1094	258.00	2242		
116.10	683	186.10	12736	259.00	509		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: | Lab Sample ID: MB 660-136189/1-A

Matrix: Solid | Lab File ID: 1CD09013.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 14.99(g) | Date Analyzed: 04/09/2013 14:55

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.: 136263 | 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	77		30-130

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09013.D
Lab Smp Id: mb 660-136189/1-a
Inj Date : 09-APR-2013 14:55
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-136189/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 13 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	14.990	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

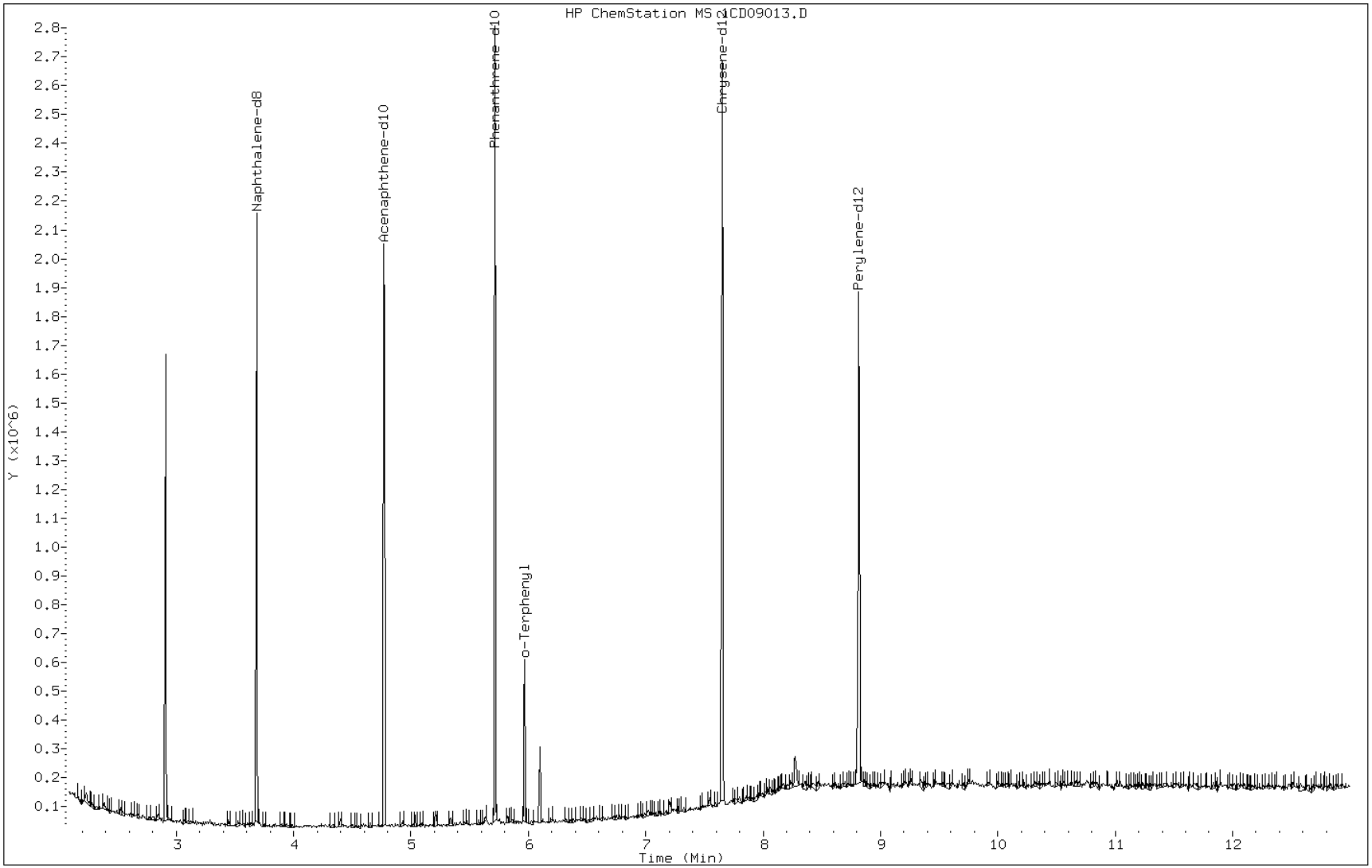
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.686	3.686	(1.000)	345646	40.0000	
* 6 Acenaphthene-d10	164	4.768	4.774	(1.000)	281898	40.0000	
* 10 Phenanthrene-d10	188	5.715	5.716	(1.000)	525675	40.0000	
$ 14 o-Terphenyl	230	5.968	5.968	(1.044)	59919	7.70872	514.2574
* 18 Chrysene-d12	240	7.651	7.657	(1.000)	588358	40.0000	
* 23 Perylene-d12	264	8.815	8.827	(1.000)	537708	40.0000	

Data File: 1CD09013.D

Date: 09-APR-2013 14:55

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-136189/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: | Lab Sample ID: MB 660-136204/1-A

Matrix: Solid | Lab File ID: 1AD09016.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/08/2013 09:32

Sample wt/vol: 15.20(g) | Date Analyzed: 04/09/2013 17:02

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.: 136269 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.3	U	8.3	4.1
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.3
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.0
206-44-0	Fluoranthene	20	U	20	3.9
86-73-7	Fluorene	20	U	20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	7.0
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.9	U	7.9	3.8
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	65		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09016.D
Lab Smp Id: mb 660-136204/1-a
Inj Date : 09-APR-2013 17:02
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-136204/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:20 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 16 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	15.200	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

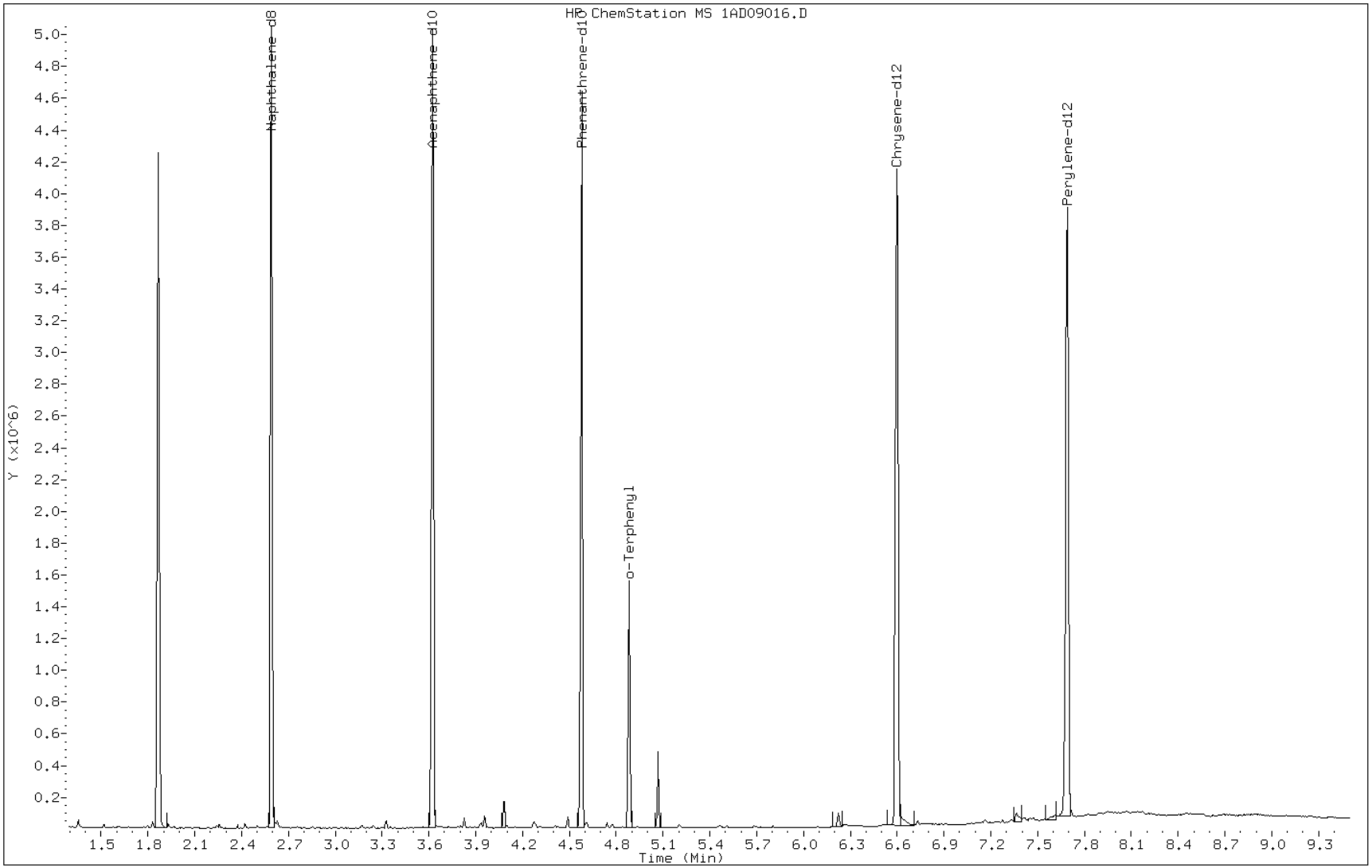
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.592	2.591	(1.000)	1916870	40.0000	
*	6 Acenaphthene-d10	164	3.622	3.622	(1.000)	1051217	40.0000	
*	10 Phenanthrene-d10	188	4.578	4.573	(1.000)	1762582	40.0000	
$	14 o-Terphenyl	230	4.883	4.877	(1.066)	240586	6.52159	429.0519
*	18 Chrysene-d12	240	6.597	6.597	(1.000)	1793207	40.0000	
*	23 Perylene-d12	264	7.692	7.676	(1.000)	1797409	40.0000	

Data File: 1AD09016.D

Date: 09-APR-2013 17:02

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-136204/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: | Lab Sample ID: LCS 660-136189/2-A

Matrix: Solid | Lab File ID: 1CD09014.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.16(g) | Date Analyzed: 04/09/2013 15:13

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

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

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

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	492		99	20
208-96-8	Acenaphthylene	527		40	4.9
120-12-7	Anthracene	503		8.3	4.2
56-55-3	Benzo[a]anthracene	514		7.9	3.9
50-32-8	Benzo[a]pyrene	457		10	5.1
205-99-2	Benzo[b]fluoranthene	553		12	6.0
191-24-2	Benzo[g,h,i]perylene	471		20	4.4
207-08-9	Benzo[k]fluoranthene	486		7.9	3.6
218-01-9	Chrysene	527		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	515		20	4.1
206-44-0	Fluoranthene	556		20	4.0
86-73-7	Fluorene	512		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	481		20	7.0
90-12-0	1-Methylnaphthalene	498		40	4.4
91-57-6	2-Methylnaphthalene	505		40	7.0
91-20-3	Naphthalene	482		40	4.4
85-01-8	Phenanthrene	532		7.9	3.9
129-00-0	Pyrene	531		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	74		30-130

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09014.D
Lab Smp Id: lcs 660-136189/2-a
Inj Date : 09-APR-2013 15:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-136189/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.160	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.686	3.686	(1.000)	344087	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	255819	40.0000	
*	10 Phenanthrene-d10	188	5.715	5.716	(1.000)	496129	40.0000	
$	14 o-Terphenyl	230	5.968	5.968	(1.044)	54361	7.43826	490.6502
*	18 Chrysene-d12	240	7.651	7.657	(1.000)	586252	40.0000	
*	23 Perylene-d12	264	8.815	8.827	(1.000)	559628	40.0000	
	2 Naphthalene	128	3.698	3.698	(1.003)	64608	7.31042	482.2173
	3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	46039	7.65272	504.7966
	4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	40855	7.54721	497.8372
	5 Acenaphthylene	152	4.686	4.686	(0.982)	84540	7.98472	526.6965
	7 Acenaphthene	154	4.792	4.792	(1.004)	48882	7.45414	491.6977
	9 Fluorene	166	5.110	5.110	(1.070)	67828	7.75881	511.7949
	11 Phenanthrene	178	5.733	5.733	(1.003)	116534	8.06487	531.9835
	12 Anthracene	178	5.762	5.768	(1.008)	111726	7.62758	503.1384

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.874	5.874	(1.028)	106048	8.45052	557.4220
15 Fluoranthene	202	6.562	6.568	(1.148)	134504	8.42876	555.9867
16 Pyrene	202	6.733	6.733	(0.880)	130776	8.05289	531.1933
17 Benzo(a)anthracene	228	7.645	7.645	(0.999)	130034	7.79072	513.8996
19 Chrysene	228	7.674	7.674	(1.003)	133508	7.99180	527.1636
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.962)	132745	8.39035	553.4529
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.964)	112784	7.37058	486.1862
22 Benzo(a)pyrene	252	8.762	8.768	(0.994)	103106	6.92207	456.6010
24 Indeno(1,2,3-cd)pyrene	276	9.945	9.956	(1.128)	103244	7.29760	481.3720(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.974	(1.130)	101954	7.80115	514.5874
26 Benzo(g,h,i)perylene	276	10.280	10.298	(1.166)	103117	7.14137	471.0668

QC Flag Legend

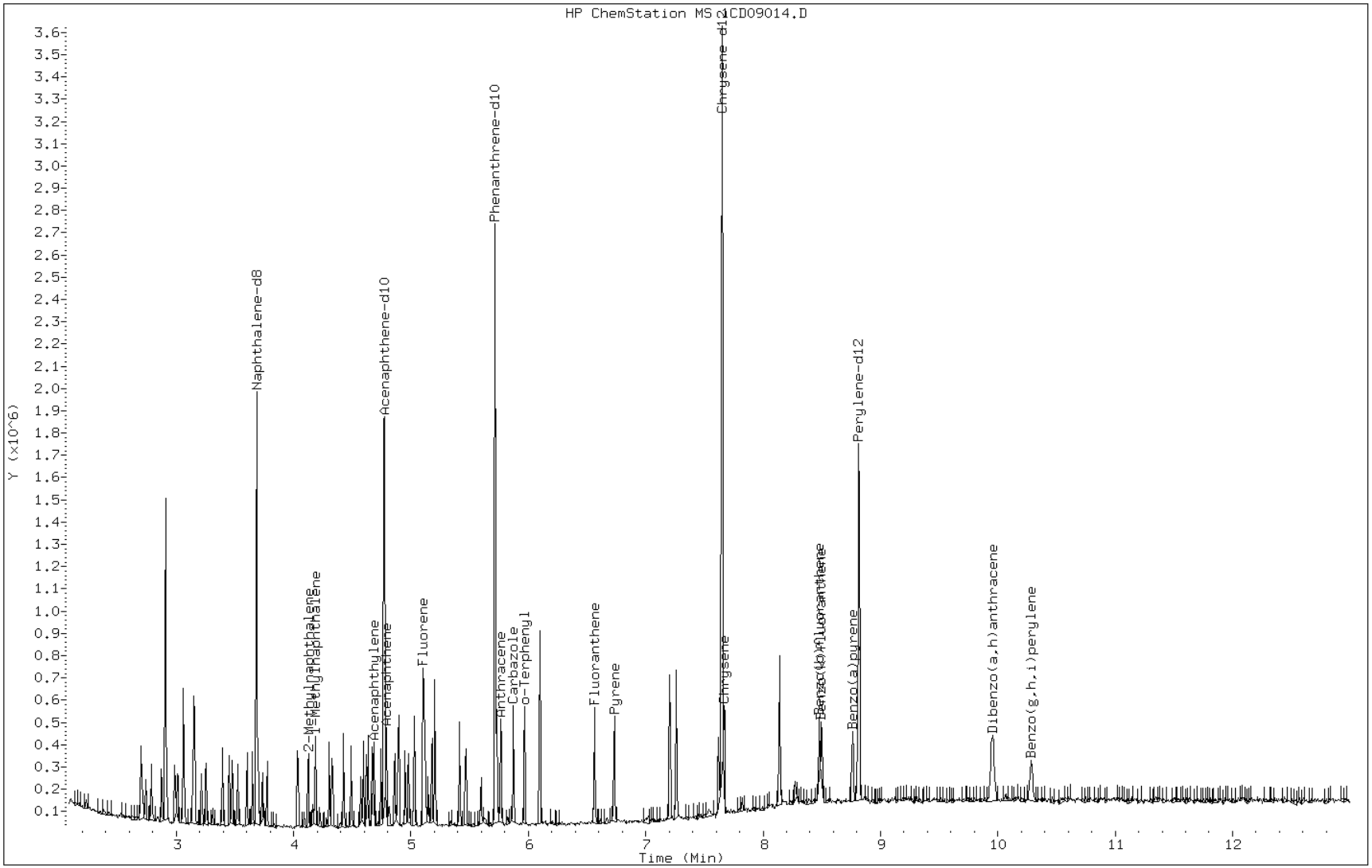
M - Compound response manually integrated.

Data File: 1CD09014.D

Date: 09-APR-2013 15:13

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-136189/2-a Operator: SCC



Manual Integration Report

Data File: 1CD09014.D
Inj. Date and Time: 09-APR-2013 15:13
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

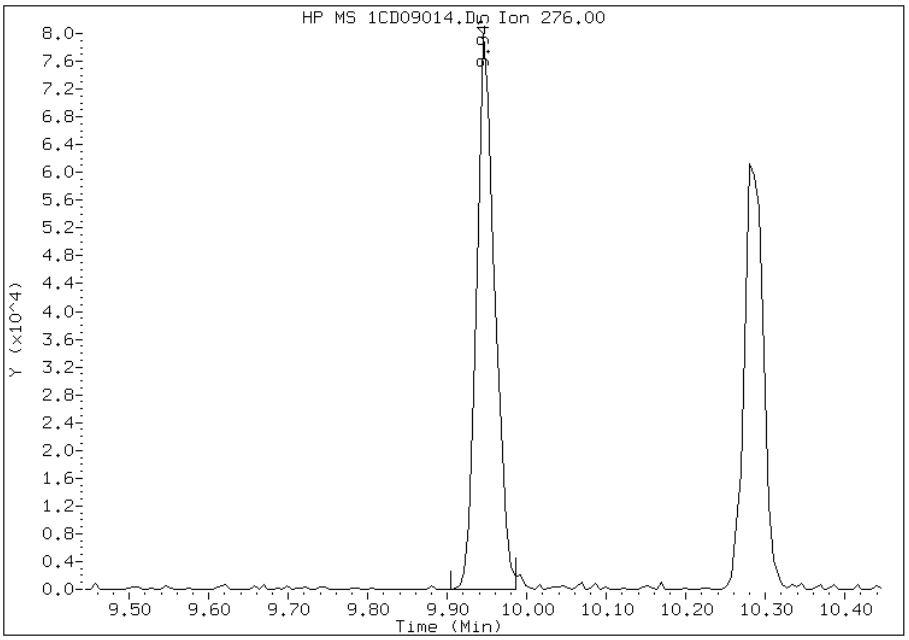
Processing Integration Results

RT: 9.95

Response: 127138

Amount: 9

Conc: 593



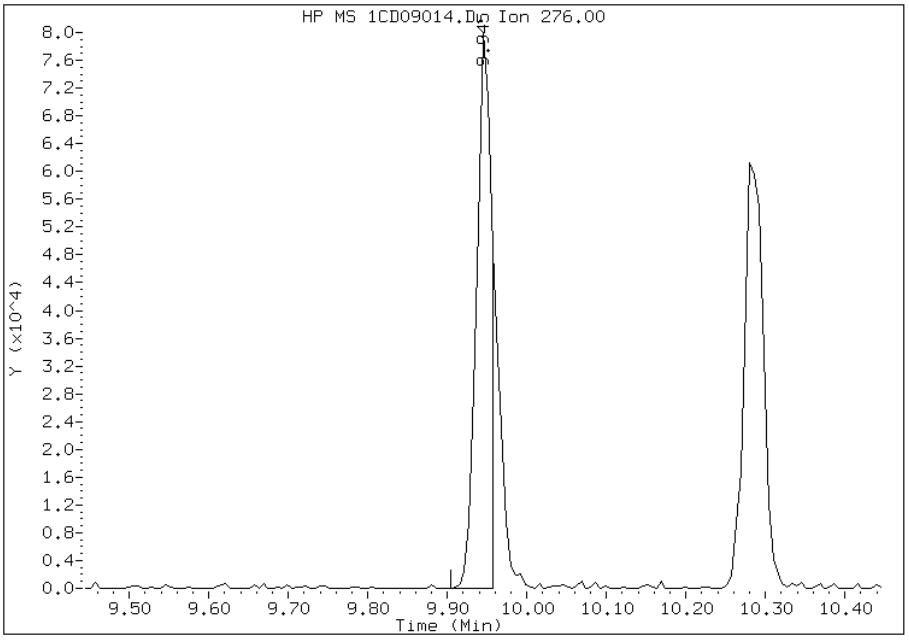
Manual Integration Results

RT: 9.95

Response: 103244

Amount: 7

Conc: 481



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: | Lab Sample ID: LCS 660-136204/2-A

Matrix: Solid | Lab File ID: 1AD09017.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/08/2013 09:32

Sample wt/vol: 15.38(g) | Date Analyzed: 04/09/2013 17:17

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.: 136269 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	375		98	20
208-96-8	Acenaphthylene	403		39	4.9
120-12-7	Anthracene	412		8.2	4.1
56-55-3	Benzo[a]anthracene	475		7.8	3.8
50-32-8	Benzo[a]pyrene	435		10	5.1
205-99-2	Benzo[b]fluoranthene	527		12	5.9
191-24-2	Benzo[g,h,i]perylene	567		20	4.3
207-08-9	Benzo[k]fluoranthene	497		7.8	3.5
218-01-9	Chrysene	473		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	597		20	4.0
206-44-0	Fluoranthene	446		20	3.9
86-73-7	Fluorene	404		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	538		20	6.9
90-12-0	1-Methylnaphthalene	438		39	4.3
91-57-6	2-Methylnaphthalene	437		39	6.9
91-20-3	Naphthalene	419		39	4.3
85-01-8	Phenanthrene	405		7.8	3.8
129-00-0	Pyrene	513		20	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09017.D
Lab Smp Id: lcs 660-136204/2-a
Inj Date : 09-APR-2013 17:17
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-136204/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:20 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 17 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.380	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	2.592	2.591	(1.000)	1540472	40.0000	
* 6	Acenaphthene-d10	164	3.623	3.622	(1.000)	847699	40.0000	
* 10	Phenanthrene-d10	188	4.573	4.573	(1.000)	1453725	40.0000	
$ 14	o-Terphenyl	230	4.878	4.877	(1.067)	200804	6.61070	429.8242
* 18	Chrysene-d12	240	6.592	6.597	(1.000)	1376979	40.0000	
* 23	Perylene-d12	264	7.676	7.676	(1.000)	1441786	40.0000	
2	Naphthalene	128	2.602	2.602	(1.004)	339931	6.44529	419.0698
3	2-Methylnaphthalene	141	3.008	3.008	(1.161)	204097	6.71807	436.8056
4	1-Methylnaphthalene	142	3.062	3.062	(1.181)	234293	6.74113	438.3046
5	Acenaphthylene	152	3.532	3.532	(0.975)	376862	6.19527	402.8135
7	Acenaphthene	154	3.639	3.638	(1.004)	206248	5.76282	374.6954
9	Fluorene	166	3.954	3.953	(1.091)	266392	6.21467	404.0746
11	Phenanthrene	178	4.589	4.589	(1.004)	343473	6.23473	405.3789
12	Anthracene	178	4.621	4.626	(1.011)	365509	6.33941	412.1854

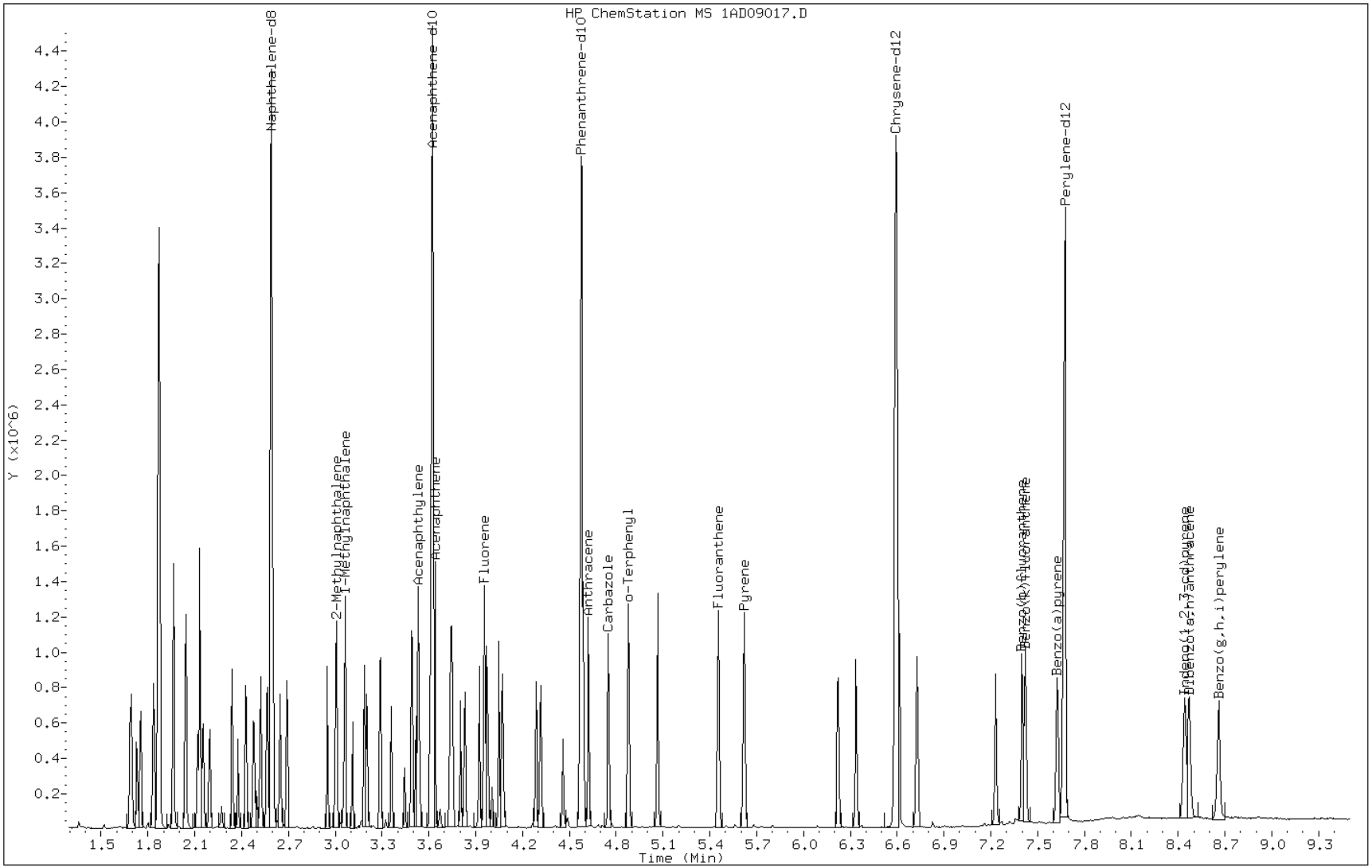
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.750	4.755	(1.039)	339038	6.83347	444.3090
15 Fluoranthene	202	5.455	5.454	(1.193)	412437	6.86393	446.2890
16 Pyrene	202	5.620	5.620	(0.853)	418486	7.88690	512.8025
17 Benzo(a)anthracene	228	6.587	6.581	(0.999)	335615	7.30681	475.0851
19 Chrysene	228	6.614	6.613	(1.003)	340660	7.27199	472.8212
20 Benzo(b)fluoranthene	252	7.399	7.404	(0.964)	354505	8.10900	527.2431
21 Benzo(k)fluoranthene	252	7.420	7.425	(0.967)	371069	7.64226	496.8962
22 Benzo(a)pyrene	252	7.623	7.628	(0.993)	308131	6.69721	435.4489
24 Indeno(1,2,3-cd)pyrene	276	8.440	8.451	(1.099)	328067	8.28062	538.4015
25 Dibenzo(a,h)anthracene	278	8.472	8.477	(1.104)	334780	9.18452	597.1732
26 Benzo(g,h,i)perylene	276	8.659	8.670	(1.128)	342741	8.72799	567.4898

Data File: 1AD09017.D

Date: 09-APR-2013 17:17

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-136204/2-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: | Lab Sample ID: 680-88811-A-62-B MS

Matrix: Solid | Lab File ID: 1AD09020.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/08/2013 09:32

Sample wt/vol: 14.94(g) | Date Analyzed: 04/09/2013 18:03

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

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

% Moisture: 18.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136269 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	376		120	25
208-96-8	Acenaphthylene	402		50	6.2
120-12-7	Anthracene	415		10	5.2
56-55-3	Benzo[a]anthracene	482		9.9	4.8
50-32-8	Benzo[a]pyrene	459		13	6.4
205-99-2	Benzo[b]fluoranthene	647		15	7.6
191-24-2	Benzo[g,h,i]perylene	623		25	5.4
207-08-9	Benzo[k]fluoranthene	449		9.9	4.5
218-01-9	Chrysene	543		11	5.6
53-70-3	Dibenz(a,h)anthracene	633		25	5.1
206-44-0	Fluoranthene	464		25	5.0
86-73-7	Fluorene	401		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	592		25	8.8
90-12-0	1-Methylnaphthalene	443		50	5.4
91-57-6	2-Methylnaphthalene	468		50	8.8
91-20-3	Naphthalene	437		50	5.4
85-01-8	Phenanthrene	467		9.9	4.8
129-00-0	Pyrene	565		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09020.D
Lab Smp Id: 680-88811-a-62-b ms
Inj Date : 09-APR-2013 18:03
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88811-a-62-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:20 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 20 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	2.591	2.591	(1.000)	1748759	40.0000	
* 6	Acenaphthene-d10	164	3.622	3.622	(1.000)	960900	40.0000	
* 10	Phenanthrene-d10	188	4.578	4.573	(1.000)	1567181	40.0000	
$ 14	o-Terphenyl	230	4.883	4.877	(1.066)	168290	4.98413	333.6095
* 18	Chrysene-d12	240	6.602	6.597	(1.000)	1379129	40.0000	
* 23	Perylene-d12	264	7.687	7.676	(1.000)	1623227	40.0000	
2	Naphthalene	128	2.602	2.602	(1.004)	324486	5.29199	354.2160
3	2-Methylnaphthalene	141	3.008	3.008	(1.161)	199721	5.66654	379.2864
4	1-Methylnaphthalene	142	3.067	3.062	(1.183)	219323	5.36604	359.1728
5	Acenaphthylene	152	3.531	3.532	(0.975)	343343	4.87122	326.0519
7	Acenaphthene	154	3.643	3.638	(1.006)	190873	4.54935	304.5079
9	Fluorene	166	3.958	3.953	(1.093)	242954	4.85744	325.1299
11	Phenanthrene	178	4.594	4.589	(1.004)	340113	5.65536	378.5380
12	Anthracene	178	4.626	4.626	(1.010)	321241	5.02656	336.4497

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.754	4.755	(1.038)	277735	5.04129	337.4355(R)
15 Fluoranthene	202	5.459	5.454	(1.192)	370268	5.61694	375.9667
16 Pyrene	202	5.625	5.620	(0.852)	364010	6.84954	458.4697
17 Benzo(a)anthracene	228	6.592	6.581	(0.998)	268853	5.84418	391.1768
19 Chrysene	228	6.618	6.613	(1.002)	308605	6.57745	440.2577
20 Benzo(b)fluoranthene	252	7.409	7.404	(0.964)	385960	7.84167	524.8777
21 Benzo(k)fluoranthene	252	7.425	7.425	(0.966)	297424	5.44083	364.1785
22 Benzo(a)pyrene	252	7.633	7.628	(0.993)	294900	5.55473	371.8026
24 Indeno(1,2,3-cd)pyrene	276	8.450	8.451	(1.099)	317224	7.16841	479.8134
25 Dibenzo(a,h)anthracene	278	8.482	8.477	(1.104)	314853	7.67232	513.5419
26 Benzo(g,h,i)perylene	276	8.675	8.670	(1.129)	333658	7.54695	505.1505

QC Flag Legend

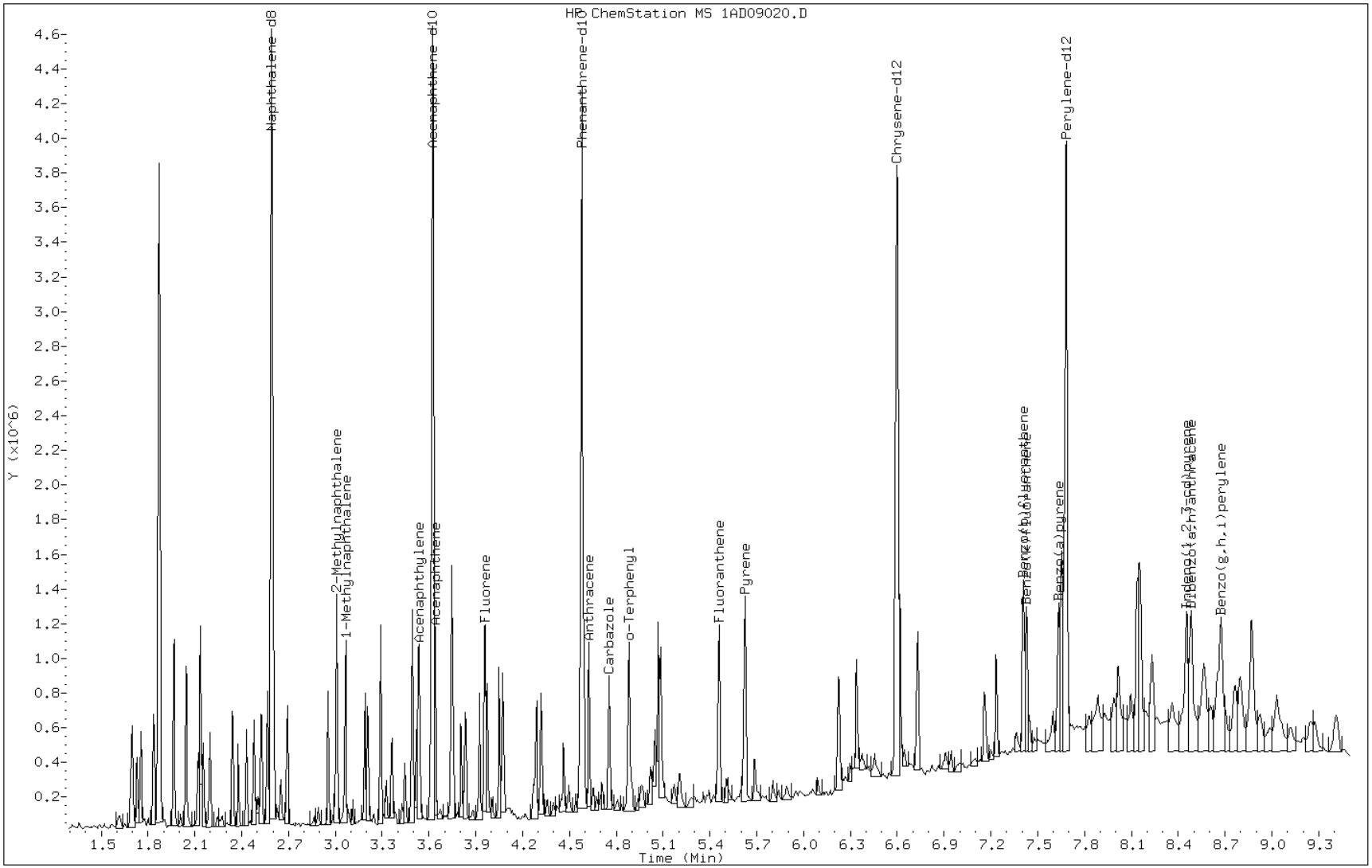
R - Spike/Surrogate failed recovery limits.

Data File: 1AD09020.D

Date: 09-APR-2013 18:03

Client ID: Instrument: BSMA5973.i

Sample Info: 680-88811-a-62-b ms Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1119A-CS MS | Lab Sample ID: 680-88811-44 MS

Matrix: Solid | Lab File ID: 1CD09019.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 09:15

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.13(g) | Date Analyzed: 04/09/2013 16:45

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

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

% Moisture: 19.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	422		120	25
208-96-8	Acenaphthylene	486		49	6.1
120-12-7	Anthracene	472		10	5.2
56-55-3	Benzo[a]anthracene	832		9.8	4.8
50-32-8	Benzo[a]pyrene	773		13	6.4
205-99-2	Benzo[b]fluoranthene	1290		15	7.5
191-24-2	Benzo[g,h,i]perylene	730		25	5.4
207-08-9	Benzo[k]fluoranthene	759		9.8	4.4
218-01-9	Chrysene	1140		11	5.5
53-70-3	Dibenz(a,h)anthracene	496		25	5.0
206-44-0	Fluoranthene	879		25	4.9
86-73-7	Fluorene	415		25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	698		25	8.7
90-12-0	1-Methylnaphthalene	778		49	5.4
91-57-6	2-Methylnaphthalene	659		49	8.7
91-20-3	Naphthalene	671		49	5.4
85-01-8	Phenanthrene	856		9.8	4.8
129-00-0	Pyrene	1020		25	4.5

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

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09019.D
Lab Smp Id: 680-88811-a-44-b ms
Inj Date : 09-APR-2013 16:45
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-44-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 19 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	3.686	3.686	(1.000)	381754	40.0000	
* 6	Acenaphthene-d10	164	4.774	4.774	(1.000)	293662	40.0000	
* 10	Phenanthrene-d10	188	5.715	5.716	(1.000)	559568	40.0000	
$ 14	o-Terphenyl	230	5.968	5.968	(1.044)	39064	5.00238	330.6268
* 18	Chrysene-d12	240	7.657	7.657	(1.000)	607668	40.0000	
* 23	Perylene-d12	264	8.827	8.827	(1.000)	562127	40.0000	
2	Naphthalene	128	3.698	3.698	(1.003)	80336	8.19314	541.5165
3	2-Methylnaphthalene	142	4.127	4.127	(1.120)	53711	8.04707	531.8617
4	1-Methylnaphthalene	142	4.186	4.186	(1.136)	57092	9.50608	628.2931
5	Acenaphthylene	152	4.686	4.686	(0.982)	72124	5.93420	392.2142
7	Acenaphthene	154	4.792	4.792	(1.004)	38832	5.15850	340.9449
9	Fluorene	166	5.110	5.110	(1.070)	50834	5.06554	334.8008
11	Phenanthrene	178	5.733	5.733	(1.003)	170332	10.4516	690.7864
12	Anthracene	178	5.768	5.768	(1.009)	95278	5.76722	381.1780

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.874	5.874	(1.028)	81505	5.75847	380.5992
15 Fluoranthene	202	6.568	6.568	(1.149)	193335	10.7419	709.9728
16 Pyrene	202	6.733	6.733	(0.879)	208901	12.4103	820.2446
17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	176504	10.1602	671.5269
19 Chrysene	228	7.674	7.674	(1.002)	241417	13.9419	921.4765(R)
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	251330	15.8151	1045.2787(R)
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.963)	142434	9.26687	612.4830
22 Benzo(a)pyrene	252	8.768	8.768	(0.993)	141258	9.44126	624.0095
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.956	(1.129)	121255	8.53257	563.9504(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.974	(1.130)	79504	6.05631	400.2848
26 Benzo(g,h,i)perylene	276	10.303	10.298	(1.167)	129404	8.92204	589.6919

QC Flag Legend

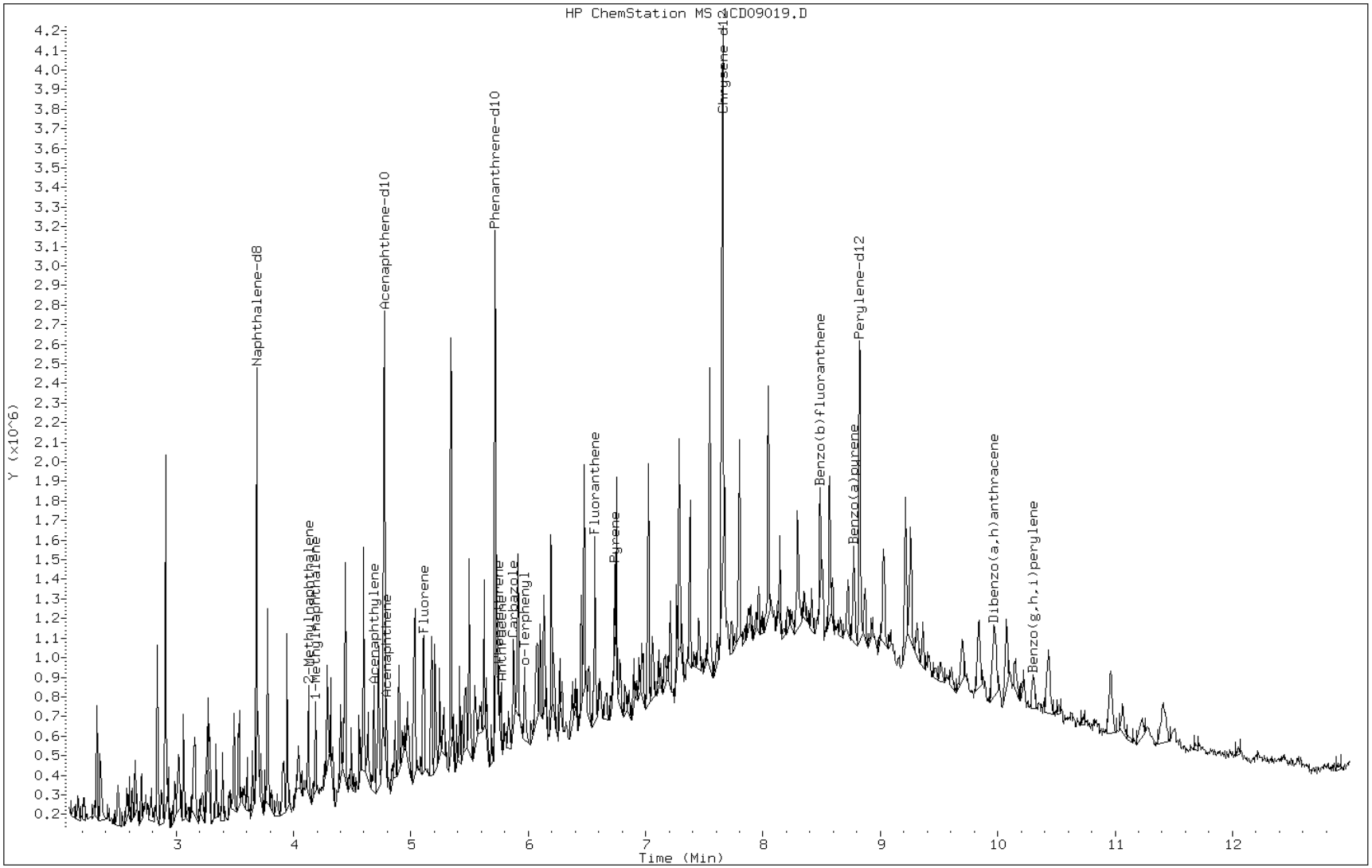
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD09019.D

Date: 09-APR-2013 16:45

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-b ms Operator: SCC



Manual Integration Report

Data File: 1CD09019.D
Inj. Date and Time: 09-APR-2013 16:45
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

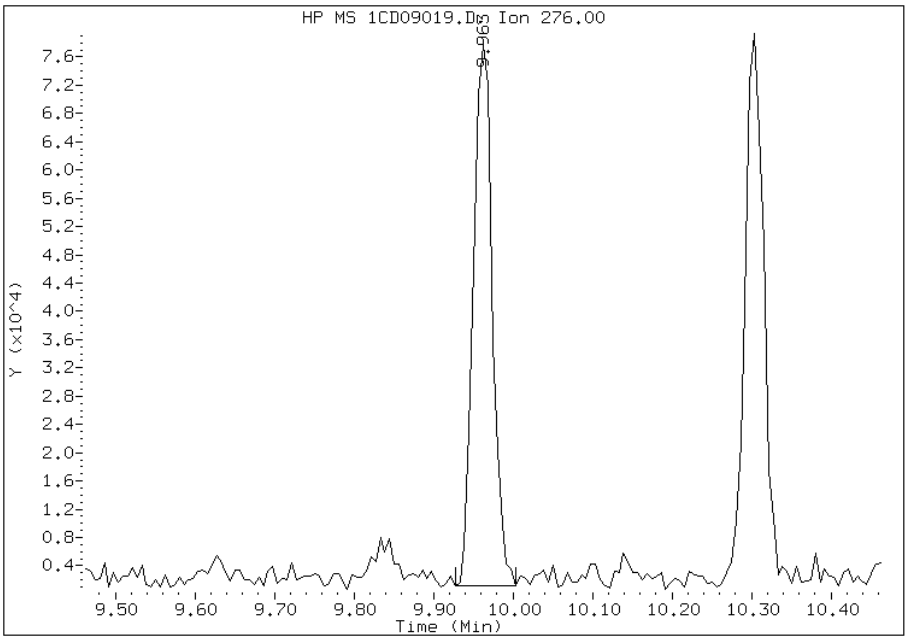
Processing Integration Results

RT: 9.96

Response: 126299

Amount: 9

Conc: 587



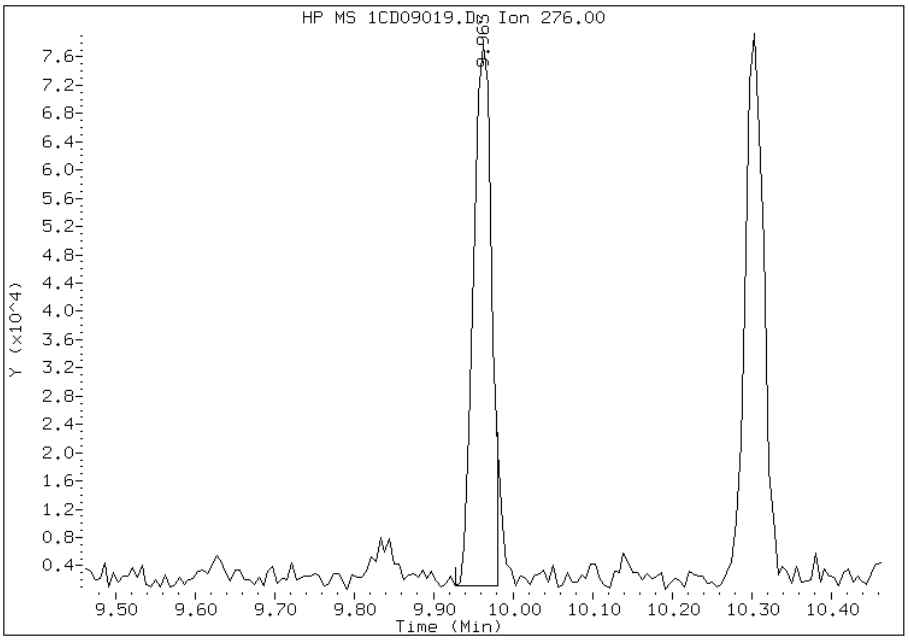
Manual Integration Results

RT: 9.96

Response: 121255

Amount: 9

Conc: 564



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 15:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: | Lab Sample ID: 680-88811-A-62-C MSD

Matrix: Solid | Lab File ID: 1AD09021.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/08/2013 09:32

Sample wt/vol: 15.17(g) | Date Analyzed: 04/09/2013 18:18

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

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

% Moisture: 18.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136269 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	427		120	24
208-96-8	Acenaphthylene	443		49	6.1
120-12-7	Anthracene	470		10	5.1
56-55-3	Benzo[a]anthracene	566		9.8	4.8
50-32-8	Benzo[a]pyrene	519		13	6.3
205-99-2	Benzo[b]fluoranthene	702		15	7.4
191-24-2	Benzo[g,h,i]perylene	709		24	5.4
207-08-9	Benzo[k]fluoranthene	541		9.8	4.4
218-01-9	Chrysene	645		11	5.5
53-70-3	Dibenz(a,h)anthracene	713		24	5.0
206-44-0	Fluoranthene	524		24	4.9
86-73-7	Fluorene	428		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	665		24	8.7
90-12-0	1-Methylnaphthalene	538		49	5.4
91-57-6	2-Methylnaphthalene	558		49	8.7
91-20-3	Naphthalene	520		49	5.4
85-01-8	Phenanthrene	562		9.8	4.8
129-00-0	Pyrene	620		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09021.D
Lab Smp Id: 680-88811-a-62-c ms
Inj Date : 09-APR-2013 18:18
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88811-a-62-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:20 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 21 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	15.170	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	2.592	2.591	(1.000)	1677219	40.0000	
*	6 Acenaphthene-d10	164	3.623	3.622	(1.000)	937268	40.0000	
*	10 Phenanthrene-d10	188	4.579	4.573	(1.000)	1492622	40.0000	
$	14 o-Terphenyl	230	4.883	4.877	(1.066)	185366	5.86007	386.2933
*	18 Chrysene-d12	240	6.603	6.597	(1.000)	1306292	40.0000	
*	23 Perylene-d12	264	7.687	7.676	(1.000)	1571839	40.0000	
	2 Naphthalene	128	2.603	2.602	(1.004)	367899	6.40085	421.9410
	3 2-Methylnaphthalene	141	3.008	3.008	(1.161)	226392	6.86513	452.5465
	4 1-Methylnaphthalene	142	3.067	3.062	(1.183)	250998	6.61101	435.7950
	5 Acenaphthylene	152	3.532	3.532	(0.975)	370928	5.44259	358.7735
	7 Acenaphthene	154	3.644	3.638	(1.006)	210702	5.24649	345.8466
	9 Fluorene	166	3.959	3.953	(1.093)	254737	5.26547	347.0975
	11 Phenanthrene	178	4.595	4.589	(1.003)	385472	6.91720	455.9789
	12 Anthracene	178	4.627	4.626	(1.010)	346384	5.78083	381.0701

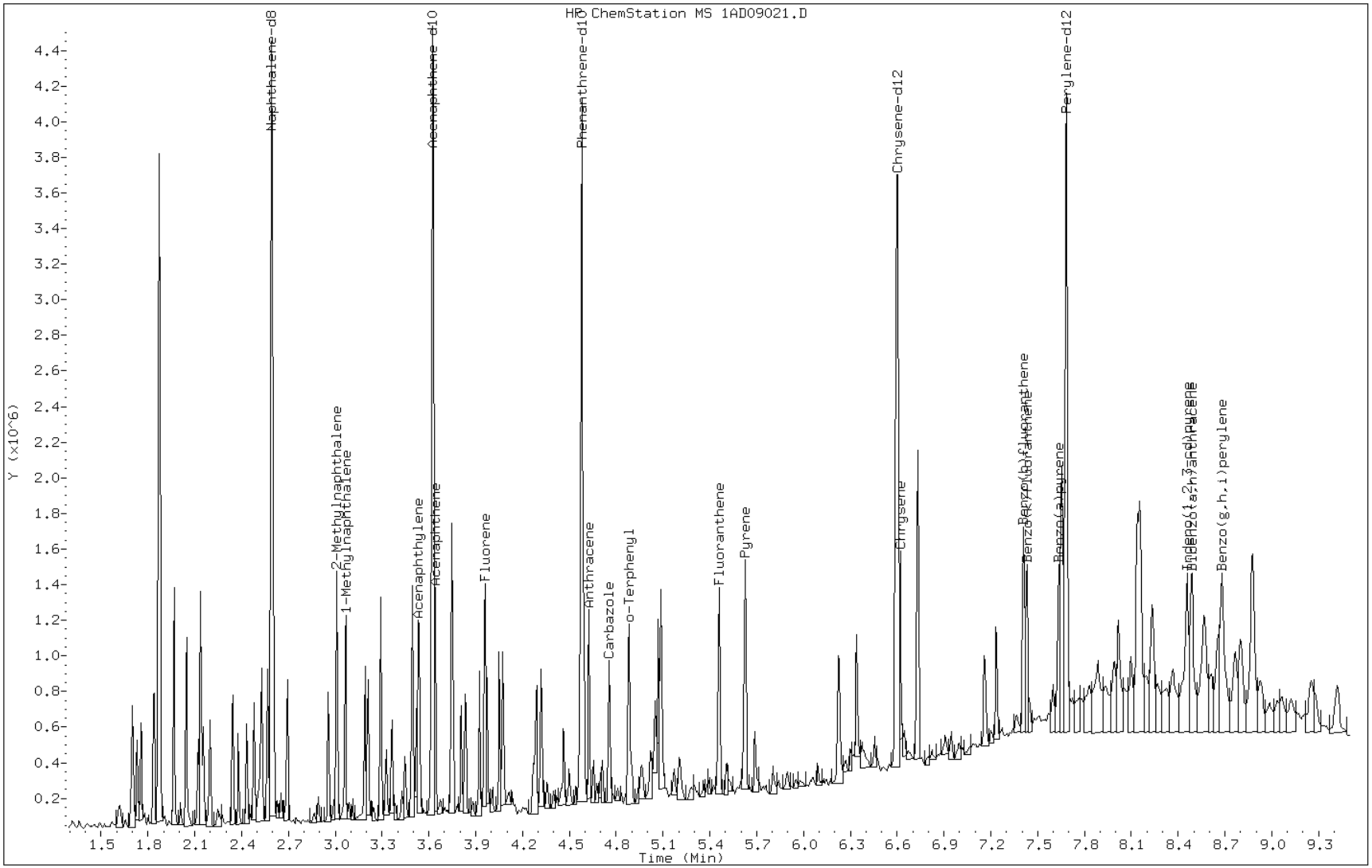
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.755	4.755	(1.038)	281429	5.39523	355.6515
15 Fluoranthene	202	5.460	5.454	(1.192)	399723	6.44080	424.5751
16 Pyrene	202	5.626	5.620	(0.852)	383874	7.62608	502.7079
17 Benzo(a)anthracene	228	6.592	6.581	(0.998)	303358	6.96192	458.9267
19 Chrysene	228	6.619	6.613	(1.002)	352447	7.93073	522.7902
20 Benzo(b)fluoranthene	252	7.409	7.404	(0.964)	411613	8.63628	569.3000
21 Benzo(k)fluoranthene	252	7.431	7.425	(0.967)	352375	6.65680	438.8131
22 Benzo(a)pyrene	252	7.634	7.628	(0.993)	322250	6.38697	421.0266
24 Indeno(1,2,3-cd)pyrene	276	8.456	8.451	(1.100)	353065	8.17938	539.1815
25 Dibenzo(a,h)anthracene	278	8.488	8.477	(1.104)	348673	8.77421	578.3925
26 Benzo(g,h,i)perylene	276	8.681	8.670	(1.129)	373421	8.72248	574.9820

Data File: 1AD09021.D

Date: 09-APR-2013 18:18

Client ID: Instrument: BSMA5973.i

Sample Info: 680-88811-a-62-c msd Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-3

SDG No.: 68088811-3

Client Sample ID: CV1119A-CS MSD | Lab Sample ID: 680-88811-44 MSD

Matrix: Solid | Lab File ID: 1CD09020.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 09:15

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.25(g) | Date Analyzed: 04/09/2013 17:03

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

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

% Moisture: 19.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	486		120	24
208-96-8	Acenaphthylene	577		49	6.1
120-12-7	Anthracene	614		10	5.1
56-55-3	Benzo[a]anthracene	1040		9.7	4.8
50-32-8	Benzo[a]pyrene	1120		13	6.3
205-99-2	Benzo[b]fluoranthene	1820		15	7.4
191-24-2	Benzo[g,h,i]perylene	977		24	5.4
207-08-9	Benzo[k]fluoranthene	1050		9.7	4.4
218-01-9	Chrysene	1380		11	5.5
53-70-3	Dibenz(a,h)anthracene	638		24	5.0
206-44-0	Fluoranthene	1260		24	4.9
86-73-7	Fluorene	479		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	857		24	8.6
90-12-0	1-Methylnaphthalene	892		49	5.4
91-57-6	2-Methylnaphthalene	845		49	8.6
91-20-3	Naphthalene	729		49	5.4
85-01-8	Phenanthrene	1120		9.7	4.8
129-00-0	Pyrene	1370		24	4.5

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

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09020.D
Lab Smp Id: 680-88811-a-44-c ms
Inj Date : 09-APR-2013 17:03
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-44-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 20 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.250	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.686	3.686	(1.000)	423377	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.774	(1.000)	316705	40.0000	
* 10 Phenanthrene-d10	188	5.715	5.716	(1.000)	569543	40.0000	
$ 14 o-Terphenyl	230	5.968	5.968	(1.044)	55963	6.74530	442.3144
* 18 Chrysene-d12	240	7.656	7.657	(1.000)	628669	40.0000	
* 23 Perylene-d12	264	8.821	8.827	(1.000)	566055	40.0000	
2 Naphthalene	128	3.698	3.698	(1.003)	97655	8.98031	588.8726
3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	76976	10.3989	681.8930
4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	73140	10.9809	720.0579
5 Acenaphthylene	152	4.686	4.686	(0.982)	93095	7.10234	465.7274
7 Acenaphthene	154	4.792	4.792	(1.004)	48578	5.98365	392.3702
9 Fluorene	166	5.110	5.110	(1.070)	63806	5.89557	386.5945
11 Phenanthrene	178	5.733	5.733	(1.003)	229427	13.8311	906.9586(R)
12 Anthracene	178	5.768	5.768	(1.009)	127180	7.56344	495.9633

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.874	5.874	(1.028)	95246	6.61143	433.5366
15 Fluoranthene	202	6.568	6.568	(1.149)	284298	15.5192	1017.6548(R)
16 Pyrene	202	6.733	6.733	(0.879)	292793	16.8131	1102.4958(R)
17 Benzo(a)anthracene	228	7.651	7.645	(0.999)	231547	12.8471	842.4309
19 Chrysene	228	7.674	7.674	(1.002)	303434	16.9381	1110.6931(R)
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	358526	22.4039	1469.1067(R)
21 Benzo(k)fluoranthene	252	8.503	8.509	(0.964)	200918	12.9812	851.2246
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	207327	13.7610	902.3581(R)
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.956	(1.129)	151016	10.5531	692.0048(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.974	(1.131)	103803	7.85244	514.9143
26 Benzo(g,h,i)perylene	276	10.303	10.298	(1.168)	175658	12.0271	788.6609

QC Flag Legend

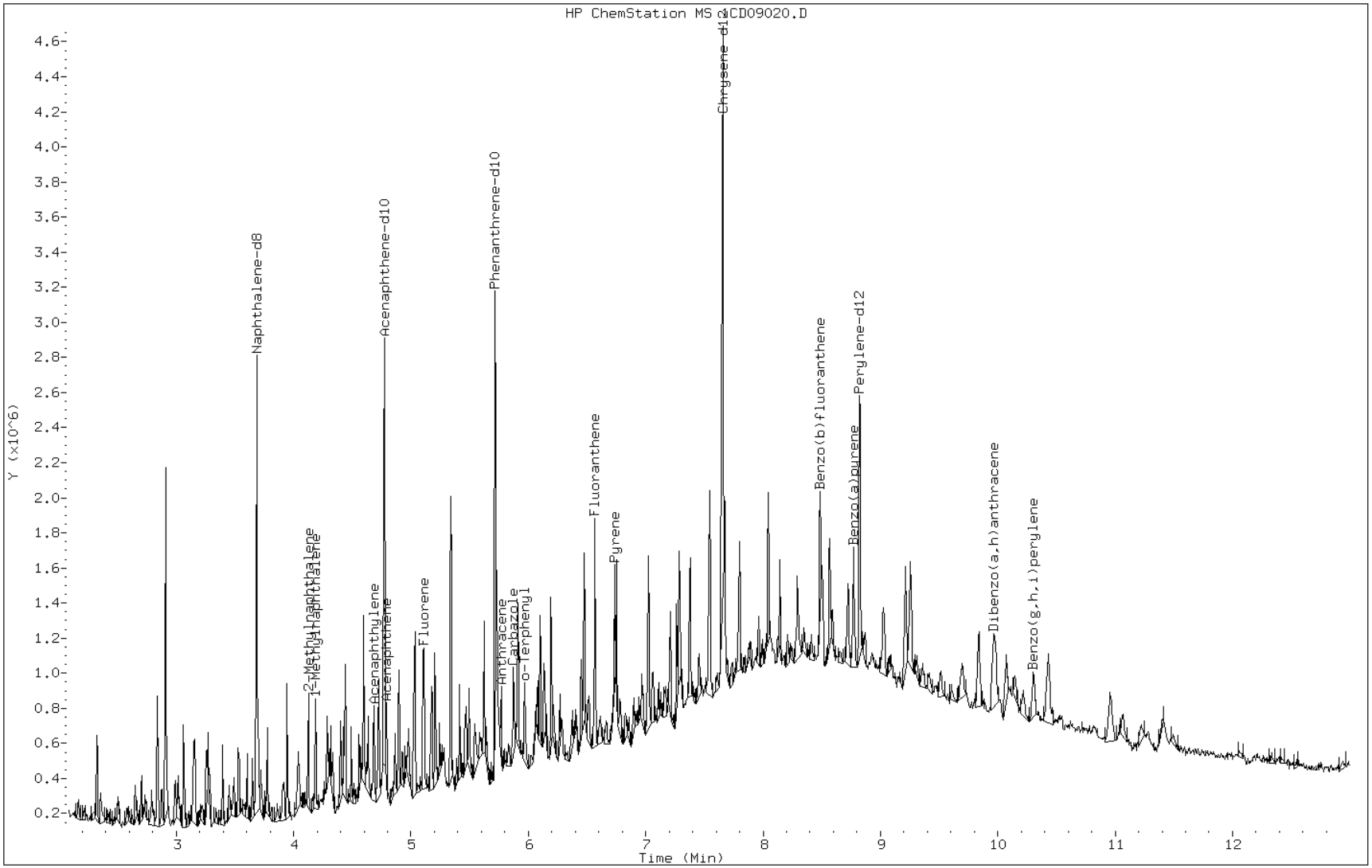
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD09020.D

Date: 09-APR-2013 17:03

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-c msd Operator: SCC



Manual Integration Report

Data File: 1CD09020.D
Inj. Date and Time: 09-APR-2013 17:03
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

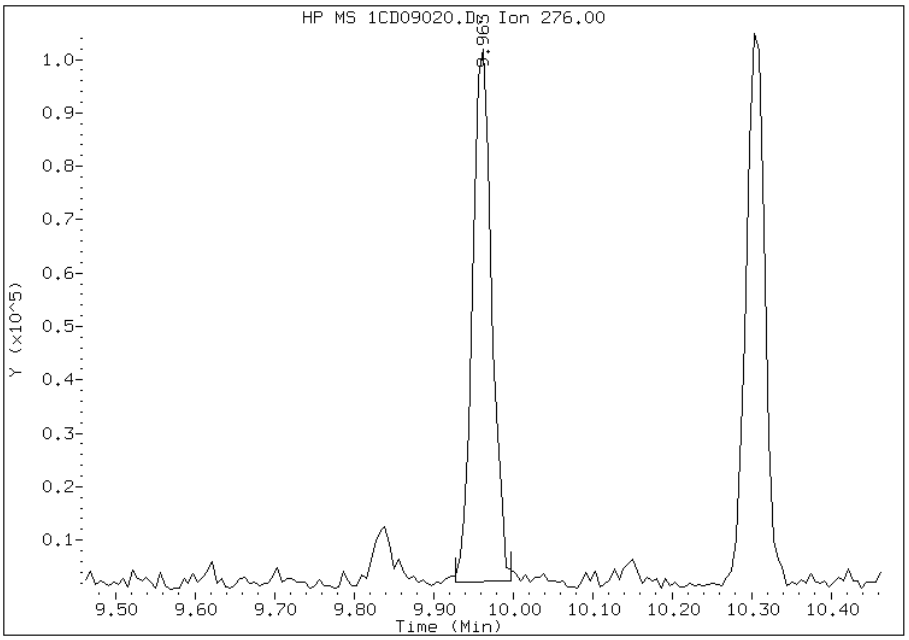
Processing Integration Results

RT: 9.96

Response: 167352

Amount: 12

Conc: 767



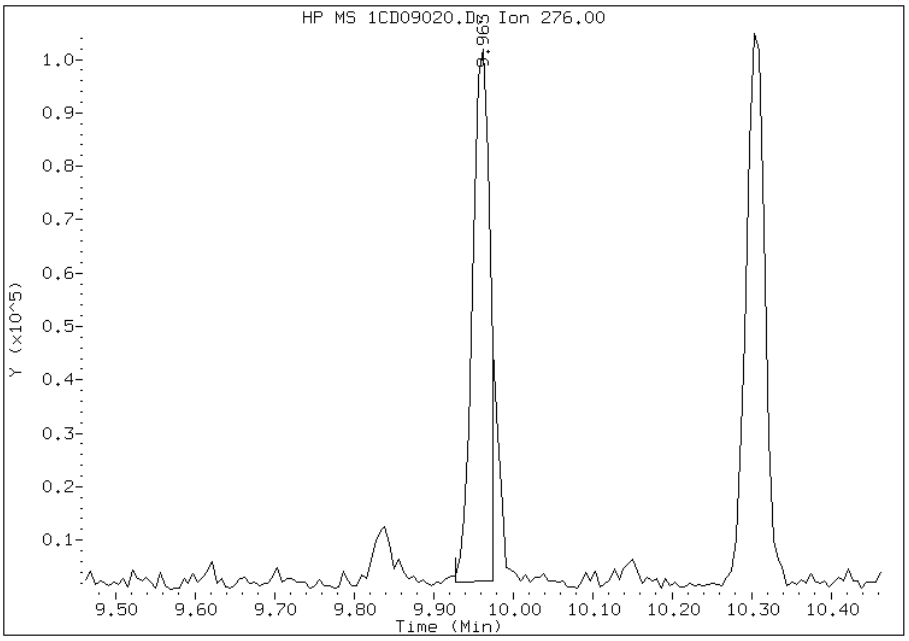
Manual Integration Results

RT: 9.96

Response: 151016

Amount: 11

Conc: 692



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 15:01
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Instrument ID: BSMA5973 Start Date: 04/09/2013 09:45

Analysis Batch Number: 136269 End Date: 04/09/2013 22:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/09/2013 09:45	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 10:03	1		DB-5MS 250(um)
DFTPP 660-136269/2		04/09/2013 10:18	1	1AD09002.D	DB-5MS 250(um)
ICIS 660-136269/3		04/09/2013 10:31	1	1AD09003.D	DB-5MS 250(um)
IC 660-136269/4		04/09/2013 10:48	1	1AD09004.D	DB-5MS 250(um)
IC 660-136269/5		04/09/2013 11:04	1	1AD09005.D	DB-5MS 250(um)
IC 660-136269/6		04/09/2013 11:19	1	1AD09006.D	DB-5MS 250(um)
IC 660-136269/7		04/09/2013 11:33	1	1AD09007.D	DB-5MS 250(um)
IC 660-136269/8		04/09/2013 11:49	1	1AD09008.D	DB-5MS 250(um)
IC 660-136269/9		04/09/2013 12:03	1	1AD09009.D	DB-5MS 250(um)
ZZZZZ		04/09/2013 12:19	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 13:15	1		DB-5MS 250(um)
ICV 660-136269/12		04/09/2013 13:51	1	1AD09012.D	DB-5MS 250(um)
ZZZZZ		04/09/2013 15:35	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 15:50	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 16:05	4		DB-5MS 250(um)
MB 660-136204/1-A		04/09/2013 17:02	1	1AD09016.D	DB-5MS 250(um)
LCS 660-136204/2-A		04/09/2013 17:17	1	1AD09017.D	DB-5MS 250(um)
680-88811-61	CV1127A-CSD	04/09/2013 17:33	1	1AD09018.D	DB-5MS 250(um)
ZZZZZ		04/09/2013 17:48	1		DB-5MS 250(um)
680-88811-A-62-B MS		04/09/2013 18:03	1	1AD09020.D	DB-5MS 250(um)
680-88811-A-62-C MSD		04/09/2013 18:18	1	1AD09021.D	DB-5MS 250(um)
680-88811-63	CV1131A-CS	04/09/2013 18:33	1	1AD09022.D	DB-5MS 250(um)
680-88811-64	CV1131B-CS	04/09/2013 18:48	4	1AD09023.D	DB-5MS 250(um)
680-88811-65	CV1131C-CS	04/09/2013 19:03	4	1AD09024.D	DB-5MS 250(um)
680-88811-66	CV1056A-CS	04/09/2013 19:18	1	1AD09025.D	DB-5MS 250(um)
ZZZZZ		04/09/2013 19:33	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 19:48	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 20:03	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 20:18	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 20:33	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 20:49	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 21:04	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 21:19	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 21:34	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 21:49	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 22:04	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 22:19	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 22:34	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 22:49	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Instrument ID: BSMC5973 Start Date: 04/02/2013 10:54

Analysis Batch Number: 136048 End Date: 04/02/2013 15:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/02/2013 10:54	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 11:13	1		DB-5MS 250(um)
DFTPP 660-136048/2		04/02/2013 11:31	1	1CD02002.D	DB-5MS 250(um)
CCVIS 660-136048/3		04/02/2013 11:49	1		DB-5MS 250(um)
CCVIS 660-136048/4		04/02/2013 12:09	1		DB-5MS 250(um)
IC 660-136048/5		04/02/2013 13:26	1	1CD02005.D	DB-5MS 250(um)
IC 660-136048/6		04/02/2013 13:44	1	1CD02006.D	DB-5MS 250(um)
IC 660-136048/7		04/02/2013 14:02	1	1CD02007.D	DB-5MS 250(um)
IC 660-136048/8		04/02/2013 14:20	1	1CD02008.D	DB-5MS 250(um)
ICIS 660-136048/9		04/02/2013 14:39	1	1CD02009.D	DB-5MS 250(um)
IC 660-136048/10		04/02/2013 14:57	1	1CD02010.D	DB-5MS 250(um)
IC 660-136048/11		04/02/2013 15:15	1	1CD02011.D	DB-5MS 250(um)
ICV 660-136048/12		04/02/2013 15:34	1	1CD02012.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Instrument ID: BSMC5973 Start Date: 04/09/2013 10:54

Analysis Batch Number: 136263 End Date: 04/09/2013 21:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/09/2013 10:54	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 11:12	1		DB-5MS 250(um)
DFTPP 660-136263/2		04/09/2013 11:31	1	1CD09002.D	DB-5MS 250(um)
CCVIS 660-136263/3		04/09/2013 11:47	1	1CD09003.D	DB-5MS 250(um)
ZZZZZ		04/09/2013 12:10	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 12:28	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 12:46	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 13:05	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 13:23	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 13:41	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 14:00	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 14:18	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 14:36	4		DB-5MS 250(um)
MB 660-136189/1-A		04/09/2013 14:55	1	1CD09013.D	DB-5MS 250(um)
LCS 660-136189/2-A		04/09/2013 15:13	1	1CD09014.D	DB-5MS 250(um)
ZZZZZ		04/09/2013 15:31	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 15:50	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 16:08	4		DB-5MS 250(um)
680-88811-44	CV1119A-CS	04/09/2013 16:26	1	1CD09018.D	DB-5MS 250(um)
680-88811-44 MS	CV1119A-CS MS	04/09/2013 16:45	1	1CD09019.D	DB-5MS 250(um)
680-88811-44 MSD	CV1119A-CS MSD	04/09/2013 17:03	1	1CD09020.D	DB-5MS 250(um)
ZZZZZ		04/09/2013 17:21	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 17:39	4		DB-5MS 250(um)
680-88811-47	CV1119C-GSD	04/09/2013 17:58	4	1CD09023.D	DB-5MS 250(um)
680-88811-48	CV1119D-GS	04/09/2013 18:16	4	1CD09024.D	DB-5MS 250(um)
680-88811-49	CV1120A-CS	04/09/2013 18:34	1	1CD09025.D	DB-5MS 250(um)
680-88811-50	CV1120B-CS	04/09/2013 18:53	1	1CD09026.D	DB-5MS 250(um)
680-88811-51	CV1121A-CS	04/09/2013 19:11	1	1CD09027.D	DB-5MS 250(um)
680-88811-52	CV1121B-CS	04/09/2013 19:29	4	1CD09028.D	DB-5MS 250(um)
680-88811-53	CV1121C-CS	04/09/2013 19:48	4	1CD09029.D	DB-5MS 250(um)
680-88811-54	CV1122A-CS	04/09/2013 20:06	1	1CD09030.D	DB-5MS 250(um)
680-88811-55	CV1122B-CS	04/09/2013 20:24	1	1CD09031.D	DB-5MS 250(um)
680-88811-56	CV1123A-CS	04/09/2013 20:43	4	1CD09032.D	DB-5MS 250(um)
680-88811-57	CV1123B-CS	04/09/2013 21:01	1	1CD09033.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Instrument ID: BSMC5973 Start Date: 04/10/2013 11:17

Analysis Batch Number: 136309 End Date: 04/10/2013 16:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/10/2013 11:17	1		DB-5MS 250(um)
ZZZZZ		04/10/2013 11:35	1		DB-5MS 250(um)
DFTPP 660-136309/2		04/10/2013 11:53	1	1CD10002.D	DB-5MS 250(um)
CCVIS 660-136309/3		04/10/2013 12:10	1	1CD10003.D	DB-5MS 250(um)
ZZZZZ		04/10/2013 12:28	1		DB-5MS 250(um)
680-88811-58	CV1125A-CS	04/10/2013 12:47	4	1CD10005.D	DB-5MS 250(um)
680-88811-59	CV1125B-CS	04/10/2013 13:05	4	1CD10006.D	DB-5MS 250(um)
680-88811-60	CV1127A-CS	04/10/2013 13:24	1	1CD10007.D	DB-5MS 250(um)
ZZZZZ		04/10/2013 13:42	4		DB-5MS 250(um)
ZZZZZ		04/10/2013 14:00	4		DB-5MS 250(um)
ZZZZZ		04/10/2013 14:19	4		DB-5MS 250(um)
ZZZZZ		04/10/2013 14:37	4		DB-5MS 250(um)
ZZZZZ		04/10/2013 14:55	4		DB-5MS 250(um)
ZZZZZ		04/10/2013 15:42	4		DB-5MS 250(um)
ZZZZZ		04/10/2013 16:05	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Batch Number: 136189 Batch Start Date: 04/08/13 06:37 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 04/08/13 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00178		
MB 660-136189/1		3546, 8270C LL		14.99 g	1 mL		1 mL		
LCS 660-136189/2		3546, 8270C LL		15.16 g	1 mL	1 mL	1 mL		
680-88811-A-44	CV1119A-CS	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-88811-A-44 MS	CV1119A-CS	3546, 8270C LL	T	15.13 g	1 mL	1 mL	1 mL		
680-88811-A-44 MSD	CV1119A-CS	3546, 8270C LL	T	15.25 g	1 mL	1 mL	1 mL		
680-88811-A-47	CV1119C-GSD	3546, 8270C LL	T	14.90 g	1 mL		1 mL		
680-88811-A-48	CV1119D-GS	3546, 8270C LL	T	15.13 g	1 mL		1 mL		
680-88811-A-49	CV1120A-CS	3546, 8270C LL	T	15.33 g	1 mL		1 mL		
680-88811-A-50	CV1120B-CS	3546, 8270C LL	T	15.42 g	1 mL		1 mL		
680-88811-A-51	CV1121A-CS	3546, 8270C LL	T	15.38 g	1 mL		1 mL		
680-88811-A-52	CV1121B-CS	3546, 8270C LL	T	14.81 g	1 mL		1 mL		
680-88811-A-53	CV1121C-CS	3546, 8270C LL	T	14.90 g	1 mL		1 mL		
680-88811-A-54	CV1122A-CS	3546, 8270C LL	T	14.87 g	1 mL		1 mL		
680-88811-A-55	CV1122B-CS	3546, 8270C LL	T	15.14 g	1 mL		1 mL		
680-88811-A-56	CV1123A-CS	3546, 8270C LL	T	15.40 g	1 mL		1 mL		
680-88811-A-57	CV1123B-CS	3546, 8270C LL	T	15.37 g	1 mL		1 mL		
680-88811-A-58	CV1125A-CS	3546, 8270C LL	T	15.22 g	1 mL		1 mL		
680-88811-A-59	CV1125B-CS	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-88811-A-60	CV1127A-CS	3546, 8270C LL	T	15.22 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.: 680-88811-3

SDG No.: 68088811-3

Batch Number: 136189 Batch Start Date: 04/08/13 06:37 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 04/08/13 15:00

Batch Notes	
Acetone Lot #	EX-ACETON BOT 50
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 65
Microwave Start Time	9:20 4/8/13
Microwave Stop Time	9:55 4/8/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	OTTOWA SAND 14
Person's name who did the prep	RYAN
SOP Number	TP-EX-014
Person who witnessed spiking	SAUREL
Surrogate Lot Number	EXLLSURINT 178
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.: 680-88811-3

SDG No.: 68088811-3

Batch Number: 136204 Batch Start Date: 04/08/13 09:32 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 04/09/13 09:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00178		
MB 660-136204/1		3546, 8270C LL		15.20 g	1 mL		1 mL		
LCS 660-136204/2		3546, 8270C LL		15.38 g	1 mL	1 mL	1 mL		
680-88811-A-61	CV1127A-CSD	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-88811-A-62 MS		3546, 8270C LL	T	14.94 g	1 mL	1 mL	1 mL		
680-88811-A-62 MSD		3546, 8270C LL	T	15.17 g	1 mL	1 mL	1 mL		
680-88811-A-63	CV1131A-CS	3546, 8270C LL	T	14.91 g	1 mL		1 mL		
680-88811-A-64	CV1131B-CS	3546, 8270C LL	T	15.20 g	1 mL		1 mL		
680-88811-A-65	CV1131C-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-88811-A-66	CV1056A-CS	3546, 8270C LL	T	15.00 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.: 680-88811-3

SDG No.: 68088811-3

Batch Number: 136204 Batch Start Date: 04/08/13 09:32 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 04/09/13 09:30

Batch Notes	
Acetone Lot #	EX-ACETON BOT 50
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 65/66
Microwave Start Time	13.204/8/13
Microwave Stop Time	13.55/4/8/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	OTTOWA SAND 15
Person's name who did the prep	RYAN
SOP Number	TP-EX014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT 178
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: 680-88811-3

SDG No.: 68088811-3

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV1119A-CS	680-88811-44
CV1119C-GSD	680-88811-47
CV1119D-GS	680-88811-48
CV1120A-CS	680-88811-49
CV1120B-CS	680-88811-50
CV1121A-CS	680-88811-51
CV1121B-CS	680-88811-52
CV1121C-CS	680-88811-53
CV1122A-CS	680-88811-54
CV1122B-CS	680-88811-55
CV1123A-CS	680-88811-56
CV1123B-CS	680-88811-57
CV1125A-CS	680-88811-58
CV1125B-CS	680-88811-59
CV1127A-CS	680-88811-60
CV1127A-CSD	680-88811-61
CV1131A-CS	680-88811-63
CV1131B-CS	680-88811-64
CV1131C-CS	680-88811-65
CV1056A-CS	680-88811-66

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88811-3

SDG Number: 68088811-3

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: 680-88811-3

SDG Number: 68088811-3

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: 680-88811-3

SDG Number: 68088811-3

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: 680-88811-3

SDG Number: 68088811-3

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.: 680-88811-3

SDG No.: 68088811-3

Instrument ID: Moisture Method: Moisture

Start Date: 04/01/2013 09:19 End Date: 04/01/2013 13:40

Lab Sample ID	D / F	Type	Time	Analytes																			
				Moist																			
LCSD 660-135992/22	1	T	09:19	X																			
LCS 660-135992/1	1	T	09:19	X																			
ZZZZZZ			09:22																				
ZZZZZZ			10:29																				
680-88811-53	1	T	10:29	X																			
680-88811-54	1	T	11:42	X																			
ZZZZZZ			11:42																				
680-88811-63	1	T	12:02	X																			
680-88811-48	1	T	12:18	X																			
ZZZZZZ			12:19																				
ZZZZZZ			12:26																				
ZZZZZZ			12:32																				
ZZZZZZ			12:44																				
ZZZZZZ			12:45																				
ZZZZZZ			12:56																				
ZZZZZZ			12:57																				
ZZZZZZ			13:06																				
ZZZZZZ			13:08																				
ZZZZZZ			13:10																				
ZZZZZZ			13:24																				
ZZZZZZ			13:30																				
ZZZZZZ			13:40																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Instrument ID: Moisture Method: Moisture

Start Date: 04/02/2013 06:23 End Date: 04/02/2013 09:22

Lab Sample ID	D / F	Type	Time	Analytes																			
				Moist																			
LCSD 660-136030/20	1	T	06:23	X																			
LCS 660-136030/1	1	T	06:25	X																			
ZZZZZZ			06:35																				
ZZZZZZ			06:38																				
ZZZZZZ			06:49																				
ZZZZZZ			06:54																				
680-88811-57	1	T	07:03	X																			
ZZZZZZ			07:07																				
ZZZZZZ			07:15																				
ZZZZZZ			07:22																				
ZZZZZZ			07:25																				
ZZZZZZ			07:36																				
ZZZZZZ			07:38																				
ZZZZZZ			07:47																				
ZZZZZZ			08:05																				
ZZZZZZ			08:28																				
ZZZZZZ			08:55																				
ZZZZZZ			08:56																				
ZZZZZZ			09:03																				
ZZZZZZ			09:22																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa   Job No.: 680-88811-3

SDG No.: 68088811-3

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 04/01/2013 08:16   End Date: 04/01/2013 08:16

Lab Sample ID	D/F	Type	Time	Analytes: Moist
ZZZZZZ			08:16	
680-88811-50	1	T	08:16	X
680-88811-44	1	T	08:16	X
680-88811-44 MS	1	T	08:16	X
680-88811-44 MSD	1	T	08:16	X
ZZZZZZ			08:16	
ZZZZZZ			08:16	
ZZZZZZ			08:16	
ZZZZZZ			08:16	
ZZZZZZ			08:16	
ZZZZZZ			08:16	
ZZZZZZ			08:16	
ZZZZZZ			08:16	
ZZZZZZ			08:16	
ZZZZZZ			08:16	
ZZZZZZ			08:16	
680-88811-A-62 MS	1	T	08:16	X
680-88811-A-62 MSD	1	T	08:16	X
ZZZZZZ			08:16	
ZZZZZZ			08:16	
ZZZZZZ			08:16	
ZZZZZZ			08:16	
ZZZZZZ			08:16	
ZZZZZZ			08:16	
ZZZZZZ			08:16	
680-88811-64	1	T	08:16	X
680-88811-59	1	T	08:16	X
ZZZZZZ			08:16	
ZZZZZZ			08:16	
ZZZZZZ			08:16	

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa   Job No.: 680-88811-3

SDG No.: 68088811-3

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 04/01/2013 10:25   End Date: 04/01/2013 10:25

Lab Sample ID	D/F	Type	Time	Analytes: Moist
ZZZZZZ			10:25	
ZZZZZZ			10:25	
ZZZZZZ			10:25	
ZZZZZZ			10:25	
ZZZZZZ			10:25	
680-88811-66	1	T	10:25	X
680-88811-47	1	T	10:25	X
ZZZZZZ			10:25	
ZZZZZZ			10:25	
ZZZZZZ			10:25	
ZZZZZZ			10:25	
ZZZZZZ			10:25	
680-88811-60	1	T	10:25	X
ZZZZZZ			10:25	
ZZZZZZ			10:25	
ZZZZZZ			10:25	
ZZZZZZ			10:25	
ZZZZZZ			10:25	
ZZZZZZ			10:25	
ZZZZZZ			10:25	
ZZZZZZ			10:25	
ZZZZZZ			10:25	
ZZZZZZ			10:25	
ZZZZZZ			10:25	
680-88811-55	1	T	10:25	X
ZZZZZZ			10:25	
ZZZZZZ			10:25	
680-88811-65	1	T	10:25	X
ZZZZZZ			10:25	
680-88811-56	1	T	10:25	X
ZZZZZZ			10:25	
680-88811-52	1	T	10:25	X
680-88811-61	1	T	10:25	X
680-88811-58	1	T	10:25	X
ZZZZZZ			10:25	
680-88811-49	1	T	10:25	X
680-88811-51	1	T	10:25	X

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Batch Number: 135964 Batch Start Date: 04/01/13 08:16 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-88811-A-50	CV1120B-CS	Moisture	T	2	0 g	4.19 g	3.52 g		
680-88811-A-44	CV1119A-CS	Moisture	T	3	0 g	4.57 g	3.69 g		
680-88811-A-44 MS	CV1119A-CS	Moisture	T	3	0 g	4.57 g	3.69 g		
680-88811-A-44 MSD	CV1119A-CS	Moisture	T	3	0 g	4.57 g	3.69 g		
680-88811-A-62 MS		Moisture	T	14	0 g	4.28 g	3.47 g		
680-88811-A-62 MSD		Moisture	T	14	0 g	4.28 g	3.47 g		
680-88811-A-64	CV1131B-CS	Moisture	T	22	0 g	4.09 g	2.78 g		
680-88811-A-59	CV1125B-CS	Moisture	T	23	0 g	4.46 g	3.71 g		

Batch Notes	
Balance ID	2 No Unit

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.: 680-88811-3

SDG No.: 68088811-3

Batch Number: 135977 Batch Start Date: 04/01/13 10:25 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-88811-A-66	CV1056A-CS	Moisture	T	6	0 g	4.63 g	3.89 g		
680-88811-A-47	CV1119C-GSD	Moisture	T	7	0 g	4.40 g	3.42 g		
680-88811-A-60	CV1127A-CS	Moisture	T	13	0 g	5.13 g	4.09 g		
680-88811-A-55	CV1122B-CS	Moisture	T	25	0 g	4.31 g	3.54 g		
680-88811-A-65	CV1131C-CS	Moisture	T	28	0 g	5.12 g	4.08 g		
680-88811-A-56	CV1123A-CS	Moisture	T	30	0 g	4.81 g	4.02 g		
680-88811-A-52	CV1121B-CS	Moisture	T	32	0 g	4.30 g	3.34 g		
680-88811-A-61	CV1127A-CSD	Moisture	T	33	0 g	5.97 g	4.92 g		
680-88811-A-58	CV1125A-CS	Moisture	T	34	0 g	4.48 g	3.84 g		
680-88811-A-49	CV1120A-CS	Moisture	T	36	0 g	4.97 g	4.17 g		
680-88811-A-51	CV1121A-CS	Moisture	T	37	0 g	4.63 g	3.77 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.1.13
Time samples were place in the oven	1330
Date samples were removed from oven	4.2.13
Time Samples were removed from oven	0622

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.: 680-88811-3

SDG No.: 68088811-3

Batch Number: 135992 Batch Start Date: 04/01/13 09:19 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-135992/1		Moisture		0 g	10.037 g	9.023 g			
680-88811-A-54	CV1122A-CS	Moisture	T	0 g	4.129 g	3.408 g			
680-88811-A-48	CV1119D-GS	Moisture	T	0 g	4.101 g	2.707 g			
680-88811-A-63	CV1131A-CS	Moisture	T	0 g	4.135 g	3.447 g			
680-88811-A-53	CV1121C-CS	Moisture	T	0 g	4.952 g	4.018 g			
LCSD 660-135992/22		Moisture		0 g	10.008 g	9.015 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-3

SDG No.: 68088811-3

Batch Number: 136030 Batch Start Date: 04/02/13 06:23 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-136030/1		Moisture		0 g	10.014 g	9.013 g			
680-88811-A-57	CV1123B-CS	Moisture	T	0 g	4.652 g	3.697 g			
LCSD 660-136030/20		Moisture		0 g	10.028 g	9.028 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 63536

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

◯ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

◯ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal	2005148-1356	AL	1	4

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

CLIENT FAX:

CLIENT NAME:

CLIENT E-MAIL:

CLIENT ADDRESS:

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; Metals RCRA 8

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	Metals RCRA 8	REMARKS
3	3-28-13	0915	CV1119 A-CS	C		X			X		
		0925	CV1119 B-CS	C		X			X	X	
2		0935	CV1119 C-GS	G		X			X		
		0935	CV1119 C-GSD	G		X			X		
		0940	CV1119 D-GS	G		X			X		
		0955	CV1120 A-CS	C		X			X		
		1005	CV1120 B-CS	C		X			X		
		0845	CV1121 A-CS	C		X			X		
		0850	CV1121 B-CS	C		X			X		
		0859	CV1121 C-CS	C		X			X		
		1050	CV1122 A-CS	C		X			X		
		1100	CV1122B-CS	C		X			X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3-28-13	1730						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	03/29/12	0945	YES ◯ NO ◯		680-88811	3.8°

Serial Number 63538

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

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

◯ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal	2005148-1356	AL	2	4

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

CLIENT FAX

CLIENT NAME

CLIENT E-MAIL

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

REQUIRED ANALYSIS: LLPAH; Metals RCRA 8

PRESERVATIVE

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, ...)	LLPAH	Metals RCRA 8								REMARKS
3	3-28-13	0905	CV1123A - CS	C		X			X									
		0925	CV1123B - CS	C		X			X									
		1006	CV1125A - CS	C		X			X									
		1015	CV1125B - CS	C		X			X									
4		1030	CV1127A - CS	C		X			X									
		1032	CV1127A - CSD	C		X			X									
		1038	CV1127B - CS	C		X			X									
		1100	CV1131A - CS	C		X			X									
		1107	CV1131B - CS	C		X			X	X								
		1115	CV1131C - CS	C		X			X									
		1345	CV1056A - CS	C		X			X									
3		1347	CV1056A - CSD	C		X			X									

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3-28-13	1730						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	03/29/13	0945	YES ◯ NO ◯		680-88811	3.8 C

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-3
SDG Number: 68088811-3

Login Number: 88811
List Source: TestAmerica Savannah
List Number: 1
Creator: Barnett, Eddie T

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

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-3
SDG Number: 68088811-3

Login Number: 88811
List Number: 1
Creator: Edwards, Erricka

List Source: TestAmerica Tampa
List Creation: 03/30/13 10:20 AM

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-88811-3
TestAmerica Sample Delivery Group: 68088811-3
Client Project/Site: 35th Avenue Superfund Site
Revision: 1

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

Attn: Ms. Limari F Krebs

Authorized for release by:
4/10/2013 5:45:42 PM
Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

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

Job ID: 680-88811-3

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88811-3

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 03/29/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C and 3.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1119A-CS (680-88811-44), CV1119C-GSD (680-88811-47), CV1119D-GS (680-88811-48), CV1120A-CS (680-88811-49), CV1120B-CS (680-88811-50), CV1121A-CS (680-88811-51), CV1121B-CS (680-88811-52), CV1121C-CS (680-88811-53), CV1122A-CS (680-88811-54), CV1122B-CS (680-88811-55), CV1123A-CS (680-88811-56), CV1123B-CS (680-88811-57), CV1125A-CS (680-88811-58), CV1125B-CS (680-88811-59), CV1127A-CS (680-88811-60), CV1127A-CSD (680-88811-61), CV1131A-CS (680-88811-63), CV1131B-CS (680-88811-64), CV1131C-CS (680-88811-65) and CV1056A-CS (680-88811-66) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/08/2013 and analyzed on 04/09/2013 and 04/10/2013.

Samples CV1119C-GSD (680-88811-47)[4X], CV1119D-GS (680-88811-48)[4X], CV1121B-CS (680-88811-52)[4X], CV1121C-CS (680-88811-53)[4X], CV1123A-CS (680-88811-56)[4X], CV1125A-CS (680-88811-58)[4X], CV1125B-CS (680-88811-59)[4X], CV1131B-CS (680-88811-64)[4X] and CV1131C-CS (680-88811-65)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recpvered outside the recovery criteria low for the MS/MSD of sample CV1119A-CS (680-88811-44) in batch 660-136263.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

Report revised to correct job reference. No results were impacted.

Sample Summary

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

TestAmerica Job ID: 680-88811-3
SDG: 68088811-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88811-44	CV1119A-CS	Solid	03/28/13 09:15	03/29/13 09:45
680-88811-47	CV1119C-GSD	Solid	03/28/13 09:35	03/29/13 09:45
680-88811-48	CV1119D-GS	Solid	03/28/13 09:40	03/29/13 09:45
680-88811-49	CV1120A-CS	Solid	03/28/13 09:55	03/29/13 09:45
680-88811-50	CV1120B-CS	Solid	03/28/13 10:05	03/29/13 09:45
680-88811-51	CV1121A-CS	Solid	03/28/13 08:45	03/29/13 09:45
680-88811-52	CV1121B-CS	Solid	03/28/13 08:50	03/29/13 09:45
680-88811-53	CV1121C-CS	Solid	03/28/13 08:59	03/29/13 09:45
680-88811-54	CV1122A-CS	Solid	03/28/13 10:50	03/29/13 09:45
680-88811-55	CV1122B-CS	Solid	03/28/13 11:00	03/29/13 09:45
680-88811-56	CV1123A-CS	Solid	03/28/13 09:05	03/29/13 09:45
680-88811-57	CV1123B-CS	Solid	03/28/13 09:25	03/29/13 09:45
680-88811-58	CV1125A-CS	Solid	03/28/13 10:06	03/29/13 09:45
680-88811-59	CV1125B-CS	Solid	03/28/13 10:15	03/29/13 09:45
680-88811-60	CV1127A-CS	Solid	03/28/13 10:30	03/29/13 09:45
680-88811-61	CV1127A-CSD	Solid	03/28/13 10:32	03/29/13 09:45
680-88811-63	CV1131A-CS	Solid	03/28/13 11:00	03/29/13 09:45
680-88811-64	CV1131B-CS	Solid	03/28/13 11:07	03/29/13 09:45
680-88811-65	CV1131C-CS	Solid	03/28/13 11:15	03/29/13 09:45
680-88811-66	CV1056A-CS	Solid	03/28/13 13:45	03/29/13 09:45

Method Summary

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

TestAmerica Job ID: 680-88811-3
SDG: 68088811-3

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds he control limits
J	Result is less han the RL but greater han or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

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

TestAmerica Job ID: 680-88811-3
SDG: 68088811-3

Client Sample ID: CV1119A-CS

Lab Sample ID: 680-88811-44

Date Collected: 03/28/13 09:15
Date Received: 03/29/13 09:45

Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	73	J	120	25	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Acenaphthylene	170		49	6.2	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Anthracene	280	F	10	5.2	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Benzo[a]anthracene	680	F	9.9	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Benzo[a]pyrene	610	F	13	6.4	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Benzo[b]fluoranthene	1300	F	15	7.5	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Benzo[g,h,i]perylene	490	F	25	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Benzo[k]fluoranthene	310		9.9	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Chrysene	1100	F	11	5.6	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Dibenz(a,h)anthracene	170		25	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Fluoranthene	1200	F	25	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Fluorene	87		25	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Indeno[1,2,3-cd]pyrene	410		25	8.8	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
1-Methylnaphthalene	1100	F	49	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
2-Methylnaphthalene	860	F	49	8.8	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Naphthalene	330		49	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Phenanthrene	1500	F	9.9	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1
Pyrene	1100	F	25	4.6	ug/Kg	☼	04/08/13 06:37	04/09/13 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*04/08/13 06:37*	*04/09/13 16:26*	*1*

Client Sample ID: CV1119C-GSD

Lab Sample ID: 680-88811-47

Date Collected: 03/28/13 09:35
Date Received: 03/29/13 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	520	U	520	100	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Acenaphthylene	200	J	210	26	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Anthracene	130		44	22	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Benzo[a]anthracene	880		41	20	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Benzo[a]pyrene	820		54	27	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Benzo[b]fluoranthene	1600		63	32	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Benzo[g,h,i]perylene	590		100	23	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Benzo[k]fluoranthene	430		41	19	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Chrysene	910		47	23	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Dibenz(a,h)anthracene	280		100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Fluoranthene	1100		100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Fluorene	51	J	100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Indeno[1,2,3-cd]pyrene	550		100	37	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
1-Methylnaphthalene	380		210	23	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
2-Methylnaphthalene	500		210	37	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Naphthalene	370		210	23	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Phenanthrene	710		41	20	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4
Pyrene	1200		100	19	ug/Kg	☼	04/08/13 06:37	04/09/13 17:58	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*30 - 130*	*04/08/13 06:37*	*04/09/13 17:58*	*4*

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

TestAmerica Job ID: 680-88811-3
SDG: 68088811-3

Client Sample ID: CV1119D-GS

Lab Sample ID: 680-88811-48

Date Collected: 03/28/13 09:40
Date Received: 03/29/13 09:45

Matrix: Solid
Percent Solids: 66.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	J	600	120	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Acenaphthylene	220	J	240	30	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Anthracene	270		50	25	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Benzo[a]anthracene	790		48	23	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Benzo[a]pyrene	560		62	31	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Benzo[b]fluoranthene	1400		73	37	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Benzo[g,h,i]perylene	570		120	26	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Benzo[k]fluoranthene	480		48	22	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Chrysene	1300		54	27	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Dibenz(a,h)anthracene	200		120	25	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Fluoranthene	1000		120	24	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Fluorene	62	J	120	25	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Indeno[1,2,3-cd]pyrene	510		120	43	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
1-Methylnaphthalene	320		240	26	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
2-Methylnaphthalene	270		240	43	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Naphthalene	450		240	26	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Phenanthrene	680		48	23	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4
Pyrene	1100		120	22	ug/Kg	☼	04/08/13 06:37	04/09/13 18:16	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*30 - 130*	*04/08/13 06:37*	*04/09/13 18:16*	*4*

Client Sample ID: CV1120A-CS

Lab Sample ID: 680-88811-49

Date Collected: 03/28/13 09:55
Date Received: 03/29/13 09:45

Matrix: Solid
Percent Solids: 83.9

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	23	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Acenaphthylene	24	J	47	5.8	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Anthracene	24		9.8	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Benzo[a]anthracene	98		9.3	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Benzo[a]pyrene	93		12	6.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Benzo[b]fluoranthene	140		14	7.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Benzo[g,h,i]perylene	68		23	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Benzo[k]fluoranthene	58		9.3	4.2	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Chrysene	110		10	5.2	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Dibenz(a,h)anthracene	21	J	23	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Fluoranthene	110		23	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Fluorene	7.1	J	23	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Indeno[1,2,3-cd]pyrene	67		23	8.3	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
1-Methylnaphthalene	74		47	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
2-Methylnaphthalene	60		47	8.3	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Naphthalene	45	J	47	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Phenanthrene	110		9.3	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1
Pyrene	130		23	4.3	ug/Kg	☼	04/08/13 06:37	04/09/13 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*04/08/13 06:37*	*04/09/13 18:34*	*1*

Client Sample ID: CV1120B-CS

Lab Sample ID: 680-88811-50

Date Collected: 03/28/13 10:05
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Acenaphthylene	**9.6**	**J**	46	5.8	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Anthracene	**19**		9.7	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Benzo[a]anthracene	**83**		9.3	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Benzo[a]pyrene	**78**		12	6.0	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Benzo[b]fluoranthene	**140**		14	7.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Benzo[g,h,i]perylene	**55**		23	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Benzo[k]fluoranthene	**59**		9.3	4.2	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Chrysene	**110**		10	5.2	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Dibenz(a,h)anthracene	**17**	**J**	23	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Fluoranthene	**100**		23	4.6	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Fluorene	**5.1**	**J**	23	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Indeno[1,2,3-cd]pyrene	**51**		23	8.2	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
1-Methylnaphthalene	**33**	**J**	46	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
2-Methylnaphthalene	**37**	**J**	46	8.2	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Naphthalene	**35**	**J**	46	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Phenanthrene	**75**		9.3	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1
Pyrene	**110**		23	4.3	ug/Kg	☼	04/08/13 06:37	04/09/13 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*04/08/13 06:37*	*04/09/13 18:53*	*1*

Client Sample ID: CV1121A-CS

Lab Sample ID: 680-88811-51

Date Collected: 03/28/13 08:45
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 81.4

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	☼	04/08/13 06:37	04/09/13 19:11	1
Acenaphthylene	**23**	**J**	48	6.0	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Anthracene	**41**		10	5.0	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Benzo[a]anthracene	**160**		9.6	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Benzo[a]pyrene	**130**		12	6.2	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Benzo[b]fluoranthene	**270**		15	7.3	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Benzo[g,h,i]perylene	**88**		24	5.3	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Benzo[k]fluoranthene	**76**		9.6	4.3	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Chrysene	**220**		11	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Dibenz(a,h)anthracene	**28**		24	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Fluoranthene	**260**		24	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Fluorene	**13**	**J**	24	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Indeno[1,2,3-cd]pyrene	**99**		24	8.5	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
1-Methylnaphthalene	**100**		48	5.3	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
2-Methylnaphthalene	**180**		48	8.5	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Naphthalene	**140**		48	5.3	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Phenanthrene	**250**		9.6	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1
Pyrene	**250**		24	4.4	ug/Kg	☼	04/08/13 06:37	04/09/13 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*04/08/13 06:37*	*04/09/13 19:11*	*1*

Client Sample ID: CV1121B-CS

Lab Sample ID: 680-88811-52

Date Collected: 03/28/13 08:50
Matrix: Solid
Date Received: 03/29/13 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	520	U	520	100	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Acenaphthylene	**41**	**J**	210	26	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Anthracene	**99**		44	22	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Benzo[a]anthracene	**440**		42	20	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Benzo[a]pyrene	**370**		54	27	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Benzo[b]fluoranthene	**400**		64	32	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Benzo[g,h,i]perylene	**260**		100	23	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Benzo[k]fluoranthene	**320**		42	19	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Chrysene	**490**		47	23	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Dibenz(a,h)anthracene	**44**	**J**	100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Fluoranthene	**590**		100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Fluorene	**57**	**J**	100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Indeno[1,2,3-cd]pyrene	**230**		100	37	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
1-Methylnaphthalene	**110**	**J**	210	23	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
2-Methylnaphthalene	**210**		210	37	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Naphthalene	**230**		210	23	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Phenanthrene	**390**		42	20	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4
Pyrene	**580**		100	19	ug/Kg	☼	04/08/13 06:37	04/09/13 19:29	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*30 - 130*	*04/08/13 06:37*	*04/09/13 19:29*	*4*

Client Sample ID: CV1121C-CS

Lab Sample ID: 680-88811-53

Date Collected: 03/28/13 08:59
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 81.1

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	☼	04/08/13 06:37	04/09/13 19:48	4
Acenaphthylene	**50**	**J**	200	25	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Anthracene	**58**		42	21	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Benzo[a]anthracene	**250**		40	19	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Benzo[a]pyrene	**200**		52	26	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Benzo[b]fluoranthene	**250**		61	30	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Benzo[g,h,i]perylene	**130**		99	22	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Benzo[k]fluoranthene	**100**		40	18	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Chrysene	**240**		45	22	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Dibenz(a,h)anthracene	**63**	**J**	99	20	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Fluoranthene	**270**		99	20	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Fluorene	99	U	99	20	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Indeno[1,2,3-cd]pyrene	**130**		99	35	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
1-Methylnaphthalene	**80**	**J**	200	22	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
2-Methylnaphthalene	**180**	**J**	200	35	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Naphthalene	**120**	**J**	200	22	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Phenanthrene	**250**		40	19	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4
Pyrene	**280**		99	18	ug/Kg	☼	04/08/13 06:37	04/09/13 19:48	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*100*		*30 - 130*	*04/08/13 06:37*	*04/09/13 19:48*	*4*

Client Sample ID: CV1122A-CS

Lab Sample ID: 680-88811-54

Date Collected: 03/28/13 10:50
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.5

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	☼	04/08/13 06:37	04/09/13 20:06	1
Acenaphthylene	**21**	**J**	49	6.1	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Anthracene	**31**		10	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Benzo[a]anthracene	**190**		9.8	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Benzo[a]pyrene	**200**		13	6.4	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Benzo[b]fluoranthene	**330**		15	7.5	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Benzo[g,h,i]perylene	**180**		24	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Benzo[k]fluoranthene	**97**		9.8	4.4	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Chrysene	**310**		11	5.5	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Dibenz(a,h)anthracene	**53**		24	5.0	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Fluoranthene	**300**		24	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Fluorene	24	U	24	5.0	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Indeno[1,2,3-cd]pyrene	**140**		24	8.7	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
1-Methylnaphthalene	**110**		49	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
2-Methylnaphthalene	**110**		49	8.7	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Naphthalene	**65**		49	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Phenanthrene	**230**		9.8	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1
Pyrene	**280**		24	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*04/08/13 06:37*	*04/09/13 20:06*	*1*

Client Sample ID: CV1122B-CS

Lab Sample ID: 680-88811-55

Date Collected: 03/28/13 11:00
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.1

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	☼	04/08/13 06:37	04/09/13 20:24	1
Acenaphthylene	**20**	**J**	48	6.0	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Anthracene	**19**		10	5.1	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Benzo[a]anthracene	**93**		9.7	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Benzo[a]pyrene	**61**		13	6.3	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Benzo[b]fluoranthene	**140**		15	7.4	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Benzo[g,h,i]perylene	**70**		24	5.3	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Benzo[k]fluoranthene	**42**		9.7	4.3	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Chrysene	**130**		11	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Dibenz(a,h)anthracene	**17**	**J**	24	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Fluoranthene	**110**		24	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Fluorene	**11**	**J**	24	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Indeno[1,2,3-cd]pyrene	**54**		24	8.6	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
1-Methylnaphthalene	**64**		48	5.3	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
2-Methylnaphthalene	**55**		48	8.6	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Naphthalene	**65**		48	5.3	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Phenanthrene	**94**		9.7	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1
Pyrene	**120**		24	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*04/08/13 06:37*	*04/09/13 20:24*	*1*

Client Sample ID: CV1123A-CS

Lab Sample ID: 680-88811-56

Date Collected: 03/28/13 09:05
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 83.6

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	☼	04/08/13 06:37	04/09/13 20:43	4
Acenaphthylene	**33**	**J**	190	23	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Anthracene	**62**		39	20	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Benzo[a]anthracene	**330**		37	18	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Benzo[a]pyrene	**270**		48	24	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Benzo[b]fluoranthene	**440**		57	28	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Benzo[g,h,i]perylene	**170**		93	21	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Benzo[k]fluoranthene	**210**		37	17	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Chrysene	**360**		42	21	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Dibenz(a,h)anthracene	**76**	**J**	93	19	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Fluoranthene	**460**		93	19	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Fluorene	93	U	93	19	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Indeno[1,2,3-cd]pyrene	**180**		93	33	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
1-Methylnaphthalene	**110**	**J**	190	21	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
2-Methylnaphthalene	**140**	**J**	190	33	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Naphthalene	**150**	**J**	190	21	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Phenanthrene	**350**		37	18	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4
Pyrene	**440**		93	17	ug/Kg	☼	04/08/13 06:37	04/09/13 20:43	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*30 - 130*	*04/08/13 06:37*	*04/09/13 20:43*	*4*

Client Sample ID: CV1123B-CS

Lab Sample ID: 680-88811-57

Date Collected: 03/28/13 09:25
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**31**	**J**	120	25	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Acenaphthylene	**31**	**J**	49	6.1	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Anthracene	**71**		10	5.2	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Benzo[a]anthracene	**280**		9.8	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Benzo[a]pyrene	**270**		13	6.4	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Benzo[b]fluoranthene	**510**		15	7.5	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Benzo[g,h,i]perylene	**180**		25	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Benzo[k]fluoranthene	**120**		9.8	4.4	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Chrysene	**350**		11	5.5	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Dibenz(a,h)anthracene	**60**		25	5.0	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Fluoranthene	**540**		25	4.9	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Fluorene	**19**	**J**	25	5.0	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Indeno[1,2,3-cd]pyrene	**170**		25	8.7	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
1-Methylnaphthalene	**93**		49	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
2-Methylnaphthalene	**120**		49	8.7	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Naphthalene	**110**		49	5.4	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Phenanthrene	**370**		9.8	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1
Pyrene	**530**		25	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*04/08/13 06:37*	*04/09/13 21:01*	*1*

Client Sample ID: CV1125A-CS

Lab Sample ID: 680-88811-58

Date Collected: 03/28/13 10:06
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 85.7

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	92	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Acenaphthylene	**33**	**J**	180	23	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Anthracene	**31**	**J**	39	19	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Benzo[a]anthracene	**220**		37	18	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Benzo[a]pyrene	**190**		48	24	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Benzo[b]fluoranthene	**240**		56	28	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Benzo[g,h,i]perylene	**200**		92	20	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Benzo[k]fluoranthene	**150**		37	17	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Chrysene	**290**		41	21	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Dibenz(a,h)anthracene	**89**	**J**	92	19	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Fluoranthene	**290**		92	18	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Fluorene	92	U	92	19	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Indeno[1,2,3-cd]pyrene	**110**		92	33	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
1-Methylnaphthalene	**92**	**J**	180	20	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
2-Methylnaphthalene	**62**	**J**	180	33	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Naphthalene	**87**	**J**	180	20	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Phenanthrene	**250**		37	18	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4
Pyrene	**250**		92	17	ug/Kg	☼	04/08/13 06:37	04/10/13 12:47	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*30 - 130*	*04/08/13 06:37*	*04/10/13 12:47*	*4*

Client Sample ID: CV1125B-CS

Lab Sample ID: 680-88811-59

Date Collected: 03/28/13 10:15
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	96	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Acenaphthylene	190	U	190	24	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Anthracene	**130**		40	20	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Benzo[a]anthracene	**420**		38	19	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Benzo[a]pyrene	**270**		50	25	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Benzo[b]fluoranthene	**480**		59	29	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Benzo[g,h,i]perylene	**270**		96	21	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Benzo[k]fluoranthene	**270**		38	17	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Chrysene	**400**		43	22	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Dibenz(a,h)anthracene	**62**	**J**	96	20	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Fluoranthene	**670**		96	19	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Fluorene	**55**	**J**	96	20	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Indeno[1,2,3-cd]pyrene	**170**		96	34	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
1-Methylnaphthalene	**100**	**J**	190	21	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
2-Methylnaphthalene	**80**	**J**	190	34	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Naphthalene	**100**	**J**	190	21	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Phenanthrene	**540**		38	19	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4
Pyrene	**600**		96	18	ug/Kg	☼	04/08/13 06:37	04/10/13 13:05	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*30 - 130*	*04/08/13 06:37*	*04/10/13 13:05*	*4*

Client Sample ID: CV1127A-CS

Lab Sample ID: 680-88811-60

Date Collected: 03/28/13 10:30
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Acenaphthylene	**26**	**J**	49	6.2	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Anthracene	**36**		10	5.2	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Benzo[a]anthracene	**140**		9.9	4.8	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Benzo[a]pyrene	**130**		13	6.4	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Benzo[b]fluoranthene	**350**		15	7.5	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Benzo[g,h,i]perylene	**130**		25	5.4	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Benzo[k]fluoranthene	**110**		9.9	4.5	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Chrysene	**340**		11	5.6	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Dibenz(a,h)anthracene	**46**		25	5.1	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Fluoranthene	**320**		25	4.9	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Fluorene	**8.0**	**J**	25	5.1	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Indeno[1,2,3-cd]pyrene	**130**		25	8.8	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
1-Methylnaphthalene	**71**		49	5.4	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
2-Methylnaphthalene	**78**		49	8.8	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Naphthalene	**78**		49	5.4	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Phenanthrene	**180**		9.9	4.8	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1
Pyrene	**260**		25	4.6	ug/Kg	☼	04/08/13 06:37	04/10/13 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*51*		*30 - 130*	*04/08/13 06:37*	*04/10/13 13:24*	*1*

Client Sample ID: CV1127A-CSD

Lab Sample ID: 680-88811-61

Date Collected: 03/28/13 10:32
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.4

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	☼	04/08/13 09:32	04/09/13 17:33	1
Acenaphthylene	**60**		48	6.0	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Anthracene	**72**		10	5.1	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Benzo[a]anthracene	**200**		9.6	4.7	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Benzo[a]pyrene	**170**		13	6.3	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Benzo[b]fluoranthene	**490**		15	7.3	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Benzo[g,h,i]perylene	**250**		24	5.3	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Benzo[k]fluoranthene	**210**		9.6	4.3	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Chrysene	**430**		11	5.4	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Dibenz(a,h)anthracene	**67**		24	4.9	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Fluoranthene	**430**		24	4.8	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Fluorene	24	U	24	4.9	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Indeno[1,2,3-cd]pyrene	**250**		24	8.6	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
1-Methylnaphthalene	**57**		48	5.3	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
2-Methylnaphthalene	**63**		48	8.6	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Naphthalene	**60**		48	5.3	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Phenanthrene	**170**		9.6	4.7	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1
Pyrene	**440**		24	4.5	ug/Kg	☼	04/08/13 09:32	04/09/13 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*04/08/13 09:32*	*04/09/13 17:33*	*1*

Client Sample ID: CV1131A-CS

Lab Sample ID: 680-88811-63

Date Collected: 03/28/13 11:00
Matrix: Solid
Date Received: 03/29/13 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	61	J	120	24	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Acenaphthylene	56		48	6.0	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Anthracene	93		10	5.1	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Benzo[a]anthracene	350		9.7	4.7	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Benzo[a]pyrene	340		13	6.3	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Benzo[b]fluoranthene	670		15	7.4	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Benzo[g,h,i]perylene	380		24	5.3	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Benzo[k]fluoranthene	200		9.7	4.3	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Chrysene	450		11	5.4	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Dibenz(a,h)anthracene	120		24	4.9	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Fluoranthene	550		24	4.8	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Fluorene	48		24	4.9	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Indeno[1,2,3-cd]pyrene	370		24	8.6	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
1-Methylnaphthalene	100		48	5.3	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
2-Methylnaphthalene	150		48	8.6	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Naphthalene	180		48	5.3	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Phenanthrene	390		9.7	4.7	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1
Pyrene	500		24	4.5	ug/Kg	☼	04/08/13 09:32	04/09/13 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*30 - 130*	*04/08/13 09:32*	*04/09/13 18:33*	*1*

Client Sample ID: CV1131B-CS

Lab Sample ID: 680-88811-64

Date Collected: 03/28/13 11:07
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 68.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	580	U	580	120	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Acenaphthylene	230	U	230	29	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Anthracene	180		49	24	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Benzo[a]anthracene	310		46	23	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Benzo[a]pyrene	60	U	60	30	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Benzo[b]fluoranthene	540		71	35	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Benzo[g,h,i]perylene	290		120	26	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Benzo[k]fluoranthene	160		46	21	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Chrysene	390		52	26	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Dibenz(a,h)anthracene	92	J	120	24	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Fluoranthene	470		120	23	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Fluorene	120	U	120	24	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Indeno[1,2,3-cd]pyrene	400		120	41	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
1-Methylnaphthalene	250		230	26	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
2-Methylnaphthalene	270		230	41	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Naphthalene	270		230	26	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Phenanthrene	460		46	23	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4
Pyrene	470		120	21	ug/Kg	☼	04/08/13 09:32	04/09/13 18:48	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*30 - 130*	*04/08/13 09:32*	*04/09/13 18:48*	*4*

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

TestAmerica Job ID: 680-88811-3
SDG: 68088811-3

Client Sample ID: CV1131C-CS

Lab Sample ID: 680-88811-65
Date Collected: 03/28/13 11:15
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Anthracene	**230**		42	21	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Benzo[a]anthracene	**510**		40	20	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Benzo[a]pyrene	**210**		52	26	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Benzo[b]fluoranthene	**800**		61	31	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Benzo[g,h,i]perylene	**440**		100	22	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Benzo[k]fluoranthene	**260**		40	18	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Chrysene	**580**		45	23	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Dibenz(a,h)anthracene	**140**		100	21	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Fluoranthene	**760**		100	20	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Fluorene	100	U	100	21	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Indeno[1,2,3-cd]pyrene	**510**		100	36	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
1-Methylnaphthalene	**230**		200	22	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
2-Methylnaphthalene	**250**		200	36	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Naphthalene	**250**		200	22	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Phenanthrene	**600**		40	20	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4
Pyrene	**790**		100	19	ug/Kg	☼	04/08/13 09:32	04/09/13 19:03	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*04/08/13 09:32*	*04/09/13 19:03*	*4*

Client Sample ID: CV1056A-CS

Lab Sample ID: 680-88811-66
Date Collected: 03/28/13 13:45
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Acenaphthylene	**53**		48	6.0	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Anthracene	**55**		10	5.0	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Benzo[a]anthracene	**140**		9.5	4.6	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Benzo[a]pyrene	**130**		12	6.2	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Benzo[b]fluoranthene	**320**		15	7.3	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Benzo[g,h,i]perylene	**210**		24	5.2	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Benzo[k]fluoranthene	**94**		9.5	4.3	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Chrysene	**200**		11	5.4	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Dibenz(a,h)anthracene	**56**		24	4.9	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Fluoranthene	**220**		24	4.8	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Fluorene	24	U	24	4.9	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Indeno[1,2,3-cd]pyrene	**200**		24	8.5	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
1-Methylnaphthalene	**62**		48	5.2	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
2-Methylnaphthalene	**71**		48	8.5	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Naphthalene	**66**		48	5.2	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Phenanthrene	**150**		9.5	4.6	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1
Pyrene	**230**		24	4.4	ug/Kg	☼	04/08/13 09:32	04/09/13 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*45*		*30 - 130*	*04/08/13 09:32*	*04/09/13 19:18*	*1*

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

Lab Sample ID: MB 660-136189/1-A
Matrix: Solid
Analysis Batch: 136263

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136189

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Fluorene	20	U	20	4.1	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Naphthalene	40	U	40	4.4	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Pyrene	20	U	20	3.7	ug/Kg		04/08/13 06:37	04/09/13 14:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*30 - 130*	*04/08/13 06:37*	*04/09/13 14:55*	*1*

Lab Sample ID: LCS 660-136189/2-A
Matrix: Solid
Analysis Batch: 136263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136189

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	660	492		ug/Kg		75	39 - 130
Acenaphthylene	660	527		ug/Kg		80	38 - 130
Anthracene	660	503		ug/Kg		76	37 - 130
Benzo[a]anthracene	660	514		ug/Kg		78	40 - 130
Benzo[a]pyrene	660	457		ug/Kg		69	49 - 130
Benzo[b]fluoranthene	660	553		ug/Kg		84	37 - 130
Benzo[g,h,i]perylene	660	471		ug/Kg		71	32 - 130
Benzo[k]fluoranthene	660	486		ug/Kg		74	32 - 130
Chrysene	660	527		ug/Kg		80	41 - 130
Dibenz(a,h)an hracene	660	515		ug/Kg		78	27 - 130
Fluoranthene	660	556		ug/Kg		84	40 - 130
Fluorene	660	512		ug/Kg		78	40 - 130
Indeno[1,2,3-cd]pyrene	660	481		ug/Kg		73	30 - 130
1-Methylnaphthalene	660	498		ug/Kg		75	31 - 130
2-Methylnaphthalene	660	505		ug/Kg		77	33 - 130
Naphthalene	660	482		ug/Kg		73	36 - 130
Phenanthrene	660	532		ug/Kg		81	42 - 130
Pyrene	660	531		ug/Kg		81	44 - 130

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

Lab Sample ID: LCS 660-136189/2-A
Matrix: Solid
Analysis Batch: 136263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136189

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	74		30 - 130

Lab Sample ID: 680-88811-44 MS
Matrix: Solid
Analysis Batch: 136263

Client Sample ID: CV1119A-CS
Prep Type: Total/NA
Prep Batch: 136189

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	73	J	819	422		ug/Kg	☼	43	39 - 130
Acenaphthylene	170		819	486		ug/Kg	☼	38	38 - 130
Anthracene	280	F	819	472	F	ug/Kg	☼	23	37 - 130
Benzo[a]anthracene	680	F	819	832	F	ug/Kg	☼	18	40 - 130
Benzo[a]pyrene	610	F	819	773	F	ug/Kg	☼	19	49 - 130
Benzo[b]fluoranthene	1300	F	819	1290	F	ug/Kg	☼	-0.2	37 - 130
Benzo[g,h,i]perylene	490	F	819	730	F	ug/Kg	☼	29	32 - 130
Benzo[k]fluoranthene	310		819	759		ug/Kg	☼	54	32 - 130
Chrysene	1100	F	819	1140	F	ug/Kg	☼	9	41 - 130
Dibenz(a,h)an hracene	170		819	496		ug/Kg	☼	40	27 - 130
Fluoranthene	1200	F	819	879	F	ug/Kg	☼	-43	40 - 130
Fluorene	87		819	415		ug/Kg	☼	40	40 - 130
Indeno[1,2,3-cd]pyrene	410		819	698		ug/Kg	☼	35	30 - 130
1-Methylnaphthalene	1100	F	819	778	F	ug/Kg	☼	-41	31 - 130
2-Methylnaphthalene	860	F	819	659	F	ug/Kg	☼	-25	33 - 130
Naphthalene	330		819	671		ug/Kg	☼	41	36 - 130
Phenanthrene	1500	F	819	856	F	ug/Kg	☼	-82	42 - 130
Pyrene	1100	F	819	1020	F	ug/Kg	☼	-13	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	50		30 - 130

Lab Sample ID: 680-88811-44 MSD
Matrix: Solid
Analysis Batch: 136263

Client Sample ID: CV1119A-CS
Prep Type: Total/NA
Prep Batch: 136189

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	73	J	812	486		ug/Kg	☼	51	39 - 130	14	40
Acenaphthylene	170		812	577		ug/Kg	☼	50	38 - 130	17	40
Anthracene	280	F	812	614		ug/Kg	☼	41	37 - 130	26	40
Benzo[a]anthracene	680	F	812	1040		ug/Kg	☼	44	40 - 130	23	40
Benzo[a]pyrene	610	F	812	1120		ug/Kg	☼	62	49 - 130	36	40
Benzo[b]fluoranthene	1300	F	812	1820		ug/Kg	☼	64	37 - 130	34	40
Benzo[g,h,i]perylene	490	F	812	977		ug/Kg	☼	60	32 - 130	29	40
Benzo[k]fluoranthene	310		812	1050		ug/Kg	☼	91	32 - 130	33	40
Chrysene	1100	F	812	1380	F	ug/Kg	☼	38	41 - 130	19	40
Dibenz(a,h)an hracene	170		812	638		ug/Kg	☼	57	27 - 130	25	40
Fluoranthene	1200	F	812	1260	F	ug/Kg	☼	4	40 - 130	36	40
Fluorene	87		812	479		ug/Kg	☼	48	40 - 130	14	40
Indeno[1,2,3-cd]pyrene	410		812	857		ug/Kg	☼	55	30 - 130	20	40
1-Methylnaphthalene	1100	F	812	892	F	ug/Kg	☼	-27	31 - 130	14	40

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

Lab Sample ID: 680-88811-44 MSD
Matrix: Solid
Analysis Batch: 136263

Client Sample ID: CV1119A-CS
Prep Type: Total/NA
Prep Batch: 136189

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	860	F	812	845	F	ug/Kg	☼	-2	33 - 130	25	40
Naphthalene	330		812	729		ug/Kg	☼	49	36 - 130	8	40
Phenanthrene	1500	F	812	1120	F	ug/Kg	☼	-50	42 - 130	27	40
Pyrene	1100	F	812	1370	F	ug/Kg	☼	30	44 - 130	29	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*67*		*30 - 130*

Lab Sample ID: MB 660-136204/1-A
Matrix: Solid
Analysis Batch: 136269

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136204

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		04/08/13 09:32	04/09/13 17:02	1
Acenaphthylene	39	U	39	4.9	ug/Kg		04/08/13 09:32	04/09/13 17:02	1
Anthracene	8.3	U	8.3	4.1	ug/Kg		04/08/13 09:32	04/09/13 17:02	1
Benzo[a]anthracene	7.9	U	7.9	3.8	ug/Kg		04/08/13 09:32	04/09/13 17:02	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		04/08/13 09:32	04/09/13 17:02	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		04/08/13 09:32	04/09/13 17:02	1
Benzo[g,h,i]perylene	20	U	20	4.3	ug/Kg		04/08/13 09:32	04/09/13 17:02	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		04/08/13 09:32	04/09/13 17:02	1
Chrysene	8.9	U	8.9	4.4	ug/Kg		04/08/13 09:32	04/09/13 17:02	1
Dibenz(a,h)an hracene	20	U	20	4.0	ug/Kg		04/08/13 09:32	04/09/13 17:02	1
Fluoranthene	20	U	20	3.9	ug/Kg		04/08/13 09:32	04/09/13 17:02	1
Fluorene	20	U	20	4.0	ug/Kg		04/08/13 09:32	04/09/13 17:02	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		04/08/13 09:32	04/09/13 17:02	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		04/08/13 09:32	04/09/13 17:02	1
2-Methylnaphthalene	39	U	39	7.0	ug/Kg		04/08/13 09:32	04/09/13 17:02	1
Naphthalene	39	U	39	4.3	ug/Kg		04/08/13 09:32	04/09/13 17:02	1
Phenanthrene	7.9	U	7.9	3.8	ug/Kg		04/08/13 09:32	04/09/13 17:02	1
Pyrene	20	U	20	3.7	ug/Kg		04/08/13 09:32	04/09/13 17:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*04/08/13 09:32*	*04/09/13 17:02*	*1*

Lab Sample ID: LCS 660-136204/2-A
Matrix: Solid
Analysis Batch: 136269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136204

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	650	375		ug/Kg		58	39 - 130
Acenaphthylene	650	403		ug/Kg		62	38 - 130
Anthracene	650	412		ug/Kg		63	37 - 130
Benzo[a]anthracene	650	475		ug/Kg		73	40 - 130
Benzo[a]pyrene	650	435		ug/Kg		67	49 - 130
Benzo[b]fluoranthene	650	527		ug/Kg		81	37 - 130
Benzo[g,h,i]perylene	650	567		ug/Kg		87	32 - 130
Benzo[k]fluoranthene	650	497		ug/Kg		76	32 - 130

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

Lab Sample ID: LCS 660-136204/2-A
Matrix: Solid
Analysis Batch: 136269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136204

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chrysene			650	473		ug/Kg		73	41 - 130		
Dibenz(a,h)an hracene			650	597		ug/Kg		92	27 - 130		
Fluoranthene			650	446		ug/Kg		69	40 - 130		
Fluorene			650	404		ug/Kg		62	40 - 130		
Indeno[1,2,3-cd]pyrene			650	538		ug/Kg		83	30 - 130		
1-Methylnaphthalene			650	438		ug/Kg		67	31 - 130		
2-Methylnaphthalene			650	437		ug/Kg		67	33 - 130		
Naphthalene			650	419		ug/Kg		64	36 - 130		
Phenanthrene			650	405		ug/Kg		62	42 - 130		
Pyrene			650	513		ug/Kg		79	44 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*66*		*30 - 130*

GC/MS Semi VOA

Prep Batch: 136189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-44	CV1119A-CS	Total/NA	Solid	3546	
680-88811-44 MS	CV1119A-CS	Total/NA	Solid	3546	
680-88811-44 MSD	CV1119A-CS	Total/NA	Solid	3546	
680-88811-47	CV1119C-GSD	Total/NA	Solid	3546	
680-88811-48	CV1119D-GS	Total/NA	Solid	3546	
680-88811-49	CV1120A-CS	Total/NA	Solid	3546	
680-88811-50	CV1120B-CS	Total/NA	Solid	3546	
680-88811-51	CV1121A-CS	Total/NA	Solid	3546	
680-88811-52	CV1121B-CS	Total/NA	Solid	3546	
680-88811-53	CV1121C-CS	Total/NA	Solid	3546	
680-88811-54	CV1122A-CS	Total/NA	Solid	3546	
680-88811-55	CV1122B-CS	Total/NA	Solid	3546	
680-88811-56	CV1123A-CS	Total/NA	Solid	3546	
680-88811-57	CV1123B-CS	Total/NA	Solid	3546	
680-88811-58	CV1125A-CS	Total/NA	Solid	3546	
680-88811-59	CV1125B-CS	Total/NA	Solid	3546	
680-88811-60	CV1127A-CS	Total/NA	Solid	3546	
LCS 660-136189/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136189/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 136204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-61	CV1127A-CSD	Total/NA	Solid	3546	
680-88811-63	CV1131A-CS	Total/NA	Solid	3546	
680-88811-64	CV1131B-CS	Total/NA	Solid	3546	
680-88811-65	CV1131C-CS	Total/NA	Solid	3546	
680-88811-66	CV1056A-CS	Total/NA	Solid	3546	
LCS 660-136204/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136204/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-44	CV1119A-CS	Total/NA	Solid	8270C LL	136189
680-88811-44 MS	CV1119A-CS	Total/NA	Solid	8270C LL	136189
680-88811-44 MSD	CV1119A-CS	Total/NA	Solid	8270C LL	136189
680-88811-47	CV1119C-GSD	Total/NA	Solid	8270C LL	136189
680-88811-48	CV1119D-GS	Total/NA	Solid	8270C LL	136189
680-88811-49	CV1120A-CS	Total/NA	Solid	8270C LL	136189
680-88811-50	CV1120B-CS	Total/NA	Solid	8270C LL	136189
680-88811-51	CV1121A-CS	Total/NA	Solid	8270C LL	136189
680-88811-52	CV1121B-CS	Total/NA	Solid	8270C LL	136189
680-88811-53	CV1121C-CS	Total/NA	Solid	8270C LL	136189
680-88811-54	CV1122A-CS	Total/NA	Solid	8270C LL	136189
680-88811-55	CV1122B-CS	Total/NA	Solid	8270C LL	136189
680-88811-56	CV1123A-CS	Total/NA	Solid	8270C LL	136189
680-88811-57	CV1123B-CS	Total/NA	Solid	8270C LL	136189
LCS 660-136189/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136189
MB 660-136189/1-A	Method Blank	Total/NA	Solid	8270C LL	136189

GC/MS Semi VOA (Continued)

Analysis Batch: 136269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-61	CV1127A-CSD	Total/NA	Solid	8270C LL	136204
680-88811-63	CV1131A-CS	Total/NA	Solid	8270C LL	136204
680-88811-64	CV1131B-CS	Total/NA	Solid	8270C LL	136204
680-88811-65	CV1131C-CS	Total/NA	Solid	8270C LL	136204
680-88811-66	CV1056A-CS	Total/NA	Solid	8270C LL	136204
LCS 660-136204/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136204
MB 660-136204/1-A	Method Blank	Total/NA	Solid	8270C LL	136204

Analysis Batch: 136309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-58	CV1125A-CS	Total/NA	Solid	8270C LL	136189
680-88811-59	CV1125B-CS	Total/NA	Solid	8270C LL	136189
680-88811-60	CV1127A-CS	Total/NA	Solid	8270C LL	136189

General Chemistry

Analysis Batch: 135964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-44	CV1119A-CS	Total/NA	Solid	Moisture	
680-88811-44 MS	CV1119A-CS	Total/NA	Solid	Moisture	
680-88811-44 MSD	CV1119A-CS	Total/NA	Solid	Moisture	
680-88811-50	CV1120B-CS	Total/NA	Solid	Moisture	
680-88811-59	CV1125B-CS	Total/NA	Solid	Moisture	
680-88811-64	CV1131B-CS	Total/NA	Solid	Moisture	

Analysis Batch: 135977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-47	CV1119C-GSD	Total/NA	Solid	Moisture	
680-88811-49	CV1120A-CS	Total/NA	Solid	Moisture	
680-88811-51	CV1121A-CS	Total/NA	Solid	Moisture	
680-88811-52	CV1121B-CS	Total/NA	Solid	Moisture	
680-88811-55	CV1122B-CS	Total/NA	Solid	Moisture	
680-88811-56	CV1123A-CS	Total/NA	Solid	Moisture	
680-88811-58	CV1125A-CS	Total/NA	Solid	Moisture	
680-88811-60	CV1127A-CS	Total/NA	Solid	Moisture	
680-88811-61	CV1127A-CSD	Total/NA	Solid	Moisture	
680-88811-65	CV1131C-CS	Total/NA	Solid	Moisture	
680-88811-66	CV1056A-CS	Total/NA	Solid	Moisture	

Analysis Batch: 135992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-48	CV1119D-GS	Total/NA	Solid	Moisture	
680-88811-53	CV1121C-CS	Total/NA	Solid	Moisture	
680-88811-54	CV1122A-CS	Total/NA	Solid	Moisture	
680-88811-63	CV1131A-CS	Total/NA	Solid	Moisture	
LCS 660-135992/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-135992/22	Lab Control Sample Dup	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 136030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-57	CV1123B-CS	Total/NA	Solid	Moisture	
LCS 660-136030/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-136030/20	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: 680-88811-3
SDG: 68088811-3

Client Sample ID: CV1119A-CS

Lab Sample ID: 680-88811-44
Date Collected: 03/28/13 09:15
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136263	04/09/13 16:26	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135964	04/01/13 08:16	AG	TAL TAM

Client Sample ID: CV1119C-GSD

Lab Sample ID: 680-88811-47
Date Collected: 03/28/13 09:35
Matrix: Solid
Date Received: 03/29/13 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			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136263	04/09/13 17:58	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1119D-GS

Lab Sample ID: 680-88811-48
Date Collected: 03/28/13 09:40
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 66.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136263	04/09/13 18:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135992	04/01/13 12:18	AG	TAL TAM

Client Sample ID: CV1120A-CS

Lab Sample ID: 680-88811-49
Date Collected: 03/28/13 09:55
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136263	04/09/13 18:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1120B-CS

Lab Sample ID: 680-88811-50
Date Collected: 03/28/13 10:05
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136263	04/09/13 18:53	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135964	04/01/13 08:16	AG	TAL TAM

Client Sample ID: CV1121A-CS

Lab Sample ID: 680-88811-51
Date Collected: 03/28/13 08:45
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136263	04/09/13 19:11	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1121B-CS

Lab Sample ID: 680-88811-52
Date Collected: 03/28/13 08:50
Matrix: Solid
Date Received: 03/29/13 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			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136263	04/09/13 19:29	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1121C-CS

Lab Sample ID: 680-88811-53
Date Collected: 03/28/13 08:59
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136263	04/09/13 19:48	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135992	04/01/13 10:29	AG	TAL TAM

Client Sample ID: CV1122A-CS

Lab Sample ID: 680-88811-54
Date Collected: 03/28/13 10:50
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136263	04/09/13 20:06	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135992	04/01/13 11:42	AG	TAL TAM

Client Sample ID: CV1122B-CS

Lab Sample ID: 680-88811-55
Date Collected: 03/28/13 11:00
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136263	04/09/13 20:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1123A-CS

Lab Sample ID: 680-88811-56
Date Collected: 03/28/13 09:05
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136263	04/09/13 20:43	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1123B-CS

Lab Sample ID: 680-88811-57
Date Collected: 03/28/13 09:25
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136263	04/09/13 21:01	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136030	04/02/13 07:03	AG	TAL TAM

Client Sample ID: CV1125A-CS

Lab Sample ID: 680-88811-58
Date Collected: 03/28/13 10:06
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136309	04/10/13 12:47	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1125B-CS

Lab Sample ID: 680-88811-59
Date Collected: 03/28/13 10:15
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136309	04/10/13 13:05	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135964	04/01/13 08:16	AG	TAL TAM

Client Sample ID: CV1127A-CS

Lab Sample ID: 680-88811-60
Date Collected: 03/28/13 10:30
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 13:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1127A-CSD

Lab Sample ID: 680-88811-61

Date Collected: 03/28/13 10:32
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136204	04/08/13 09:32	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136269	04/09/13 17:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1131A-CS

Lab Sample ID: 680-88811-63

Date Collected: 03/28/13 11:00
Matrix: Solid
Date Received: 03/29/13 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			136204	04/08/13 09:32	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136269	04/09/13 18:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135992	04/01/13 12:02	AG	TAL TAM

Client Sample ID: CV1131B-CS

Lab Sample ID: 680-88811-64

Date Collected: 03/28/13 11:07
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 68.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136204	04/08/13 09:32	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136269	04/09/13 18:48	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135964	04/01/13 08:16	AG	TAL TAM

Client Sample ID: CV1131C-CS

Lab Sample ID: 680-88811-65

Date Collected: 03/28/13 11:15
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136204	04/08/13 09:32	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136269	04/09/13 19:03	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1056A-CS

Lab Sample ID: 680-88811-66

Date Collected: 03/28/13 13:45
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136204	04/08/13 09:32	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136269	04/09/13 19:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Laboratory References:

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

Serial Number 63536

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005148-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

CLIENT NAME	CLIENT E-MAIL	CLIENT FAX
(b) (6)		

CLIENT ADDRESS (b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 1 OF 4

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

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 22 PAH	Metals RCRA 8	NUMBER OF CONTAINERS SUBMITTED	REMARKS
								PRESERVATIVE			
3-28-13	0915	CV1119 A-CS	C		X			X			
	0925	CV1119 B-CS	C		X			X	X		
	0935	CV1119 C-GS	G		X			X			
	0935	CV1119 C-GSD	G		X			X			
	0940	CV1119 D-GS	G		X			X			
	1955	CV1120 A-CS	C		X			X			
	1005	CV1120 B-CS	C		X			X			
	0845	CV1121 A-CS	C		X			X			
	0850	CV1121 B-CS	C		X			X			
	0859	CV1121 C-CS	C		X			X			
	1050	CV1122 A-CS	C		X			X			
	1100	CV1122B-CS	C		X			X			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Hyslin	3-28-13	1730						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	03/29/13	0945	YES ◯ NO ◯		680-88811	3.8°C

TAL8240-680 (1008)

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4/10/2013

Serial Number 63538

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal	200548-1356	AL	2	4

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

CLIENT FAX

(b) (6)

CLIENT NAME | CLIENT E-MAIL

(b) (6)

CLIENT ADDRESS

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

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

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: LL PAH	REQUIRED ANALYSIS: Metals (RCRA 8)	REMARKS
3-28-13	0905	CV1123A-CS	C		X			X		
	0925	CV1123B-CS	C		X			X		
	1006	CV1125A-CS	C		X			X		
	1015	CV1125B-CS	C		X			X		
	1030	CV1127A-CS	C		X			X		
	1032	CV1127A-CSD	C		X			X		
	1038	CV1127B-CS	C		X			X		
	1100	CV1131A-CS	C		X			X		
	1107	CV1131B-CS	C		X			X	X	
	1115	CV1131C-CS	C		X			X		
	1345	CV1056A-CS	C		X			X		
	1347	CV1056A-CSD	C		X			X		

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	3-28-13	1730						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	03/29/13	0945	YES ○ NO ○		680-88811	3.8 C

TAL-8240-680 (1008)

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4/10/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-3
SDG Number: 68088811-3

Login Number: 88811
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

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

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-3
SDG Number: 68088811-3

Login Number: 88811
List Number: 1
Creator: Edwards, Erricka

List Source: TestAmerica Tampa
List Creation: 03/30/13 10:20 AM

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

Certification Summary

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

TestAmerica Job ID: 680-88811-3
SDG: 68088811-3

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		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
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
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

All certifica ions held by this laboratory are listed. Not all cer ifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13
Georgia	State Program	4	905	06-30-13

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

Certification Summary

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

TestAmerica Job ID: 680-88811-3
SDG: 68088811-3

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
USDA	Federal		P330-11-00177	04-20-14