REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica – Tampa, FL	Job ID.:	680-88632-2
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Date(s) Collected:	03/21/2013
Reviewer:	Jane Lindsey	Date:	04/09/2013
Concurrence[1]:	Carol Lovett, Martha Meyers-Lee	Date:	04/15/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.			✓		
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAH were not detected during the analysis of rinsate blank 032013-RB-Bowls+Spoons (680-88527-34).	

[1] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank (032013-RB-Bowls+Spoons) was collected during the week of 03/18/2013. The rinsate blank was analyzed for PAHs under Test America Job ID 680-88527-2.	
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)		✓			
14. Is a field duplicate associated with this Job?	✓			CV0197B-CS (680-88632-32) and CV0197B-CSD (680-88632-33)	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to **Attachment B** (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	✓			• Initial Calibration: 02/22/2013, instrument BSMC5973 • ICV: 02/22/2013 @ 14:06 • CCV: 03/28/2013 @ 11:59 • CCV: 04/01/2013 @ 11:31 • Initial Calibration: 04/02/2013, instrument BSMC5973 • ICV: 04/02/2013 @ 15:34 • CCV: 4/2/2013 @ 16:40 • Initial Calibration: 02/22/2013, instrument BSMD5973 • ICV: 02/22/2013 @ 14:51 • CCV: 03/28/2013 @ 14:57	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with individual CCC %RSD ≤30 (≤50% for poor performers), OR r≥0.995, OR r^2≥0.99, and RRF ≥0.050 (≥0.010 for poor performers)): ○ If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects ○ If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: ≤20%D (≤50% for poor performers) and RF ≥0.050 (≥0.010 for poor performers)): ○ If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects ○ If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds		✓		• ICV of 02/22/2013 @ 14:06, instrument BSMC5973: ○ Chrysene @ -20.6%D (Lab: ≤35.0, Project: ≤20), 79.5%R ○ Benzo(a)pyrene @ -21.7%D (Lab: ≤35.0, Project: ≤20), 78.5%R A negative bias is indicated by the ICV percent difference and both analytes were detected in associated samples[2]; therefore, J-flag detected chrysene and benzo(a)pyrene results. • ICV of 04/02/2013 @ 15:34, instrument BSMC5973: ○ Pyrene @ -21.4%D (Lab: ≤35.0, Project: ≤20), 78.5%R ○ Chrysene @ -23.5%D (Lab: ≤35.0, Project: ≤20), 76.5%R ○ Benzo(b)fluoranthene @ -21.1%D (Lab: ≤35.0, Project: ≤20), 79%R ○ Benzo(a)pyrene @ -24.3%D (Lab: ≤35.0, Project: ≤20), 75.5%R A negative bias is indicated by the ICV percent difference and the above-mentioned analytes were detected in associated samples[3]; 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)?	✓			• Prep Batch 135822: 680-88592-21 (Batch sample), MS/MSD • Prep Batch 135843: 680-88632-10 (Batch sample), MS/MSD • Prep Batch 135924: 680-88632-21 (CV0476A-CS-SP), MS/MSD	

[2] 680-88632-22 through -40
[3] 680-88632-21

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
24. Is the MS/MSD parent sample a project-specific sample?	✓			See above.	
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results	✓				
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result.	✓				
27. Were surrogate recoveries within lab/project specifications? • If %R <10, then J-flag positive and R-flag non-detect associated sample results • If %R >UCL, then J-flag positive results • %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results	✓				
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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: 680-88632-2
SDG: 68088632-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88632-21	CV0476A-CS-SP	Solid	03/21/13 15:35	03/23/13 09:39
680-88632-22	CV0476B-CS-SP	Solid	03/21/13 15:44	03/23/13 09:39
680-88632-23	CV0566A-CS-SP	Solid	03/21/13 16:01	03/23/13 09:39
680-88632-24	CV0566B-CS-SP	Solid	03/21/13 16:10	03/23/13 09:39
680-88632-25	CV0663A-CS-SP	Solid	03/21/13 13:15	03/23/13 09:39
680-88632-26	CV0663B-CS-SP	Solid	03/21/13 13:20	03/23/13 09:39
680-88632-27	FM0017A-CS-SP	Solid	03/21/13 13:55	03/23/13 09:39
680-88632-28	FM0017B-CS-SP	Solid	03/21/13 14:05	03/23/13 09:39
680-88632-29	FM0017C-CS-SP	Solid	03/21/13 14:00	03/23/13 09:39
680-88632-30	FM0017D-CS-SP	Solid	03/21/13 14:10	03/23/13 09:39
680-88632-31	CV0197A-CS	Solid	03/21/13 13:30	03/23/13 09:39
680-88632-32	CV0197B-CS	Solid	03/21/13 13:45	03/23/13 09:39
680-88632-33	CV0197B-CSD	Solid	03/21/13 13:45	03/23/13 09:39
680-88632-34	CV0197C-CS	Solid	03/21/13 13:50	03/23/13 09:39
680-88632-35	CV0813A-CS	Solid	03/21/13 14:20	03/23/13 09:39
680-88632-36	CV0813B-CS	Solid	03/21/13 14:30	03/23/13 09:39
680-88632-37	FM0346A-CS	Solid	03/21/13 15:20	03/23/13 09:39
680-88632-38	FM0346B-CS	Solid	03/21/13 15:40	03/23/13 09:39
680-88632-39	HP0323A-CS	Solid	03/21/13 16:00	03/23/13 09:39
680-88632-40	HP0323B-CS	Solid	03/21/13 16:10	03/23/13 09:39

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0197B-CS (680-88632-32)	RL	CV0197B-CSD (680-88632-33)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	96 J	250	130 J	240	µg/kg	1225	NA	**34**	**490**	None, absolute difference ≤ 2x Avg RL
Anthracene	110	52	200	51	µg/kg	257.5	NA	**90**	**103**	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	550	49	820	48	µg/kg	242.5	**39**	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	570	64	650	63	µg/kg	317.5	**13**	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	870	75	1000	73	µg/kg	370	**14**	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	470	120	420	120	µg/kg	600	NA	**50**	**240**	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	440	49	420	48	µg/kg	242.5	**5**	NA	NA	None, RPD ≤ 50%
Chrysene	640	55	720	54	µg/kg	272.5	**12**	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	130	120	130	120	µg/kg	600	NA	**0**	**240**	None, absolute difference ≤ 2x Avg RL
Fluoranthene	1000	120	1700	120	µg/kg	600	**52**	NA	NA	**J/UJ-flag, RPD > 50%**
Fluorene	49 J	120	63 J	120	µg/kg	600	NA	**14**	**240**	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	330	120	270	120	µg/kg	600	NA	**60**	**240**	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	120 J	250	100 J	240	µg/kg	1225	NA	**20**	**490**	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	190 J	250	180 J	240	µg/kg	1225	NA	**10**	**490**	None, absolute difference ≤ 2x Avg RL
Naphthalene	160 J	250	120 J	240	µg/kg	1225	NA	**40**	**490**	None, absolute difference ≤ 2x Avg RL
Phenanthrene	630	49	820	48	µg/kg	242.5	**26**	NA	NA	None, RPD ≤ 50%
Pyrene	1000	120	1500	120	µg/kg	600	**40**	NA	NA	None, RPD ≤ 50%

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

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

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

ATTACHMENT C

CASE NARRATIVE

Job ID: 680-88632-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88632-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0476A-CS-SP (680-88632-21), CV0476B-CS-SP (680-88632-22), CV0566A-CS-SP (680-88632-23), CV0566B-CS-SP (680-88632-24), CV0663A-CS-SP (680-88632-25), CV0663B-CS-SP (680-88632-26), FM0017A-CS-SP (680-88632-27), FM0017B-CS-SP (680-88632-28), FM0017C-CS-SP (680-88632-29), FM0017D-CS-SP (680-88632-30), CV0197A-CS (680-88632-31), CV0197B-CS (680-88632-32), CV0197B-CSD (680-88632-33), CV0197C-CS (680-88632-34), CV0813A-CS (680-88632-35), CV0813B-CS (680-88632-36), FM0346A-CS (680-88632-37), FM0346B-CS (680-88632-38), HP0323A-CS (680-88632-39) and HP0323B-CS (680-88632-40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/27/2013 and 03/29/2013 and analyzed on 03/28/2013, 04/01/2013 and 04/02/2013.

Samples CV0663A-CS-SP (680-88632-25)[4X], CV0663B-CS-SP (680-88632-26)[4X], FM0017A-CS-SP (680-88632-27)[4X], FM0017B-CS-SP (680-88632-28)[4X], FM0017C-CS-SP (680-88632-29)[4X], FM0017D-CS-SP (680-88632-30)[4X], CV0197A-CS (680-88632-31)[4X], CV0197B-CS (680-88632-32)[4X], CV0197B-CSD (680-88632-33)[4X], CV0197C-CS (680-88632-34)[4X], CV0813A-CS (680-88632-35)[4X], CV0813B-CS (680-88632-36)[4X], FM0346B-CS (680-88632-38)[4X] and HP0323B-CS (680-88632-40)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88632-10 in batch 660-135996. Several analytes also exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88592-21 in batch 660-136038.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: CV0476A-CS-SP

Date Collected: 03/21/13 15:35
Date Received: 03/23/13 09:39

Lab Sample ID: 680-88632-21
Matrix: Solid
Percent Solids: 81.6

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	☼	03/29/13 10:19	04/02/13 20:37	1
Acenaphthylene	**20**	J	48	5.9	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Anthracene	**14**	J	10	5.0	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Benzo[a]anthracene	**94**		9.5	4.6	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Benzo[a]pyrene	**97**	J	12	6.2	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Benzo[b]fluoranthene	**200**	J	15	7.3	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Benzo[g,h,i]perylene	**91**		24	5.2	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Benzo[k]fluoranthene	**51**		9.5	4.3	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Chrysene	**140**	J	11	5.3	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Dibenz(a,h)anthracene	**32**		24	4.9	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Fluoranthene	**140**		24	4.8	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Fluorene	**9.4**	J	24	4.9	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Indeno[1,2,3-cd]pyrene	**74**		24	8.4	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
1-Methylnaphthalene	**33**	J	48	5.2	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
2-Methylnaphthalene	**51**		48	8.4	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Naphthalene	**79**		48	5.2	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Phenanthrene	**100**		9.5	4.6	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Pyrene	**110**	J	24	4.4	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*03/29/13 10:19*	*04/02/13 20:37*	*1*

Client Sample ID: CV0476B-CS-SP

Date Collected: 03/21/13 15:44
Date Received: 03/23/13 09:39

Lab Sample ID: 680-88632-22
Matrix: Solid
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	130	U	130	25	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Acenaphthylene	**6.4**	J	50	6.3	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Anthracene	**9.6**	J	11	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Benzo[a]anthracene	**41**		10	4.9	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Benzo[a]pyrene	**33**	J	13	6.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Benzo[b]fluoranthene	**74**		15	7.7	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Benzo[g,h,i]perylene	**43**		25	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Benzo[k]fluoranthene	**16**		10	4.5	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Chrysene	**57**	J	11	5.7	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Dibenz(a,h)anthracene	**17**	J	25	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Fluoranthene	**60**		25	5.0	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Fluorene	**5.9**	J	25	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Indeno[1,2,3-cd]pyrene	**41**		25	9.0	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
1-Methylnaphthalene	**24**	J	50	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
2-Methylnaphthalene	**29**	J	50	9.0	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Naphthalene	**35**	J	50	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Phenanthrene	**47**		10	4.9	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Pyrene	**53**		25	4.7	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*30 - 130*	*03/27/13 11:19*	*03/28/13 23:00*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: CV0566A-CS-SP

Date Collected: 03/21/13 16:01
Date Received: 03/23/13 09:39

Lab Sample ID: 680-88632-23
Matrix: Solid
Percent Solids: 74.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	J	140	27	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Acenaphthylene	19	J	55	6.8	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Anthracene	200		11	5.7	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Benzo[a]anthracene	450		11	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Benzo[a]pyrene	360	J	14	7.1	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Benzo[b]fluoranthene	560		17	8.3	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Benzo[g,h,i]perylene	250		27	6.0	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Benzo[k]fluoranthene	290		11	4.9	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Chrysene	440	J	12	6.1	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Dibenz(a,h)anthracene	93		27	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Fluoranthene	1000		27	5.5	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Fluorene	92		27	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Indeno[1,2,3-cd]pyrene	220		27	9.7	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
1-Methylnaphthalene	91		55	6.0	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
2-Methylnaphthalene	120		55	9.7	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Naphthalene	160		55	6.0	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Phenanthrene	940		11	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Pyrene	840		27	5.0	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*36*		*30 - 130*	*03/27/13 11:19*	*03/28/13 23:19*	*1*

Client Sample ID: CV0566B-CS-SP

Date Collected: 03/21/13 16:10
Date Received: 03/23/13 09:39

Lab Sample ID: 680-88632-24
Matrix: Solid
Percent Solids: 78.7

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	☼	03/27/13 11:19	03/28/13 23:37	1
Acenaphthylene	24	J	50	6.2	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Anthracene	30		10	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Benzo[a]anthracene	160		9.9	4.8	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Benzo[a]pyrene	160	J	13	6.5	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Benzo[b]fluoranthene	270		15	7.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Benzo[g,h,i]perylene	130		25	5.5	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Benzo[k]fluoranthene	150		9.9	4.5	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Chrysene	160	J	11	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Dibenz(a,h)anthracene	46		25	5.1	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Fluoranthene	290		25	5.0	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Fluorene	14	J	25	5.1	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Indeno[1,2,3-cd]pyrene	120		25	8.8	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
1-Methylnaphthalene	47	J	50	5.5	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
2-Methylnaphthalene	79		50	8.8	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Naphthalene	100		50	5.5	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Phenanthrene	180		9.9	4.8	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Pyrene	180		25	4.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*40*		*30 - 130*	*03/27/13 11:19*	*03/28/13 23:37*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: CV0663A-CS-SP

Lab Sample ID: 680-88632-25

Date Collected: 03/21/13 13:15
Date Received: 03/23/13 09:39

Matrix: Solid
Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Acenaphthylene	26	J	200	25	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Anthracene	83		41	21	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Benzo[a]anthracene	300		39	19	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Benzo[a]pyrene	320	J	51	26	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Benzo[b]fluoranthene	500		60	30	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Benzo[g,h,i]perylene	200		98	22	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Benzo[k]fluoranthene	100		39	18	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Chrysene	400	J	44	22	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Dibenz(a,h)anthracene	140		98	20	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Fluoranthene	440		98	20	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Fluorene	36	J	98	20	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Indeno[1,2,3-cd]pyrene	180		98	35	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
1-Methylnaphthalene	200		200	22	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
2-Methylnaphthalene	240		200	35	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Naphthalene	210		200	22	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Phenanthrene	360		39	19	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Pyrene	420		98	18	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*03/27/13 15:04*	*04/01/13 16:23*	*4*

Client Sample ID: CV0663B-CS-SP

Lab Sample ID: 680-88632-26

Date Collected: 03/21/13 13:20
Date Received: 03/23/13 09:39

Matrix: Solid
Percent Solids: 73.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Acenaphthylene	150	J	220	27	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Anthracene	180		46	23	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Benzo[a]anthracene	1000		43	21	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Benzo[a]pyrene	900	J	56	28	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Benzo[b]fluoranthene	1500		66	33	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Benzo[g,h,i]perylene	630		110	24	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Benzo[k]fluoranthene	590		43	20	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Chrysene	1100	J	49	24	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Dibenz(a,h)anthracene	230		110	22	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Fluoranthene	1500		110	22	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Fluorene	69	J	110	22	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Indeno[1,2,3-cd]pyrene	580		110	39	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
1-Methylnaphthalene	470		220	24	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
2-Methylnaphthalene	550		220	39	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Naphthalene	430		220	24	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Phenanthrene	950		43	21	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Pyrene	1500		110	20	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*30 - 130*	*03/27/13 15:04*	*04/01/13 16:41*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: FM0017A-CS-SP

Lab Sample ID: 680-88632-27

Date Collected: 03/21/13 13:55
Date Received: 03/23/13 09:39

Matrix: Solid
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	96	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Acenaphthylene	**75**	J	190	24	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Anthracene	**41**		40	20	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Benzo[a]anthracene	**490**		38	19	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Benzo[a]pyrene	**460**	J	50	25	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Benzo[b]fluoranthene	**620**		59	29	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Benzo[g,h,i]perylene	**350**		96	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Benzo[k]fluoranthene	**280**		38	17	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Chrysene	**520**	J	43	22	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Dibenz(a,h)anthracene	**120**		96	20	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Fluoranthene	**620**		96	19	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Fluorene	**26**	J	96	20	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Indeno[1,2,3-cd]pyrene	**270**		96	34	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
1-Methylnaphthalene	**230**		190	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
2-Methylnaphthalene	**290**		190	34	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Naphthalene	**150**	J	190	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Phenanthrene	**420**		38	19	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Pyrene	**580**		96	18	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*30 - 130*	*03/27/13 15:04*	*04/01/13 17:00*	*4*

Client Sample ID: FM0017B-CS-SP

Lab Sample ID: 680-88632-28

Date Collected: 03/21/13 14:05
Date Received: 03/23/13 09:39

Matrix: Solid
Percent Solids: 75.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Acenaphthylene	**31**	J	210	27	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Anthracene	**44**	J	45	22	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Benzo[a]anthracene	**230**		43	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Benzo[a]pyrene	**210**	J	55	28	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Benzo[b]fluoranthene	**320**		65	32	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Benzo[g,h,i]perylene	**200**		110	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Benzo[k]fluoranthene	**140**		43	19	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Chrysene	**270**	J	48	24	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Dibenz(a,h)anthracene	**72**	J	110	22	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Fluoranthene	**370**		110	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Fluorene	**26**	J	110	22	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Indeno[1,2,3-cd]pyrene	**170**		110	38	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
1-Methylnaphthalene	**120**	J	210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
2-Methylnaphthalene	**130**	J	210	38	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Naphthalene	**69**	J	210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Phenanthrene	**290**		43	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Pyrene	**370**		110	20	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*30 - 130*	*03/27/13 15:04*	*04/01/13 17:18*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: FM0017C-CS-SP

Lab Sample ID: 680-88632-29

Date Collected: 03/21/13 14:00
Date Received: 03/23/13 09:39

Matrix: Solid
Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Acenaphthylene	**74**	**J**	210	26	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Anthracene	**43**	**J**	44	22	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Benzo[a]anthracene	**250**		42	20	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Benzo[a]pyrene	**220**	**J**	54	27	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Benzo[b]fluoranthene	**360**		63	32	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Benzo[g,h,i]perylene	**220**		100	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Benzo[k]fluoranthene	**200**		42	19	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Chrysene	**240**	**J**	47	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Dibenz(a,h)anthracene	**72**	**J**	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Fluoranthene	**300**		100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Fluorene	**25**	**J**	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Indeno[1,2,3-cd]pyrene	**200**		100	37	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
1-Methylnaphthalene	**150**	**J**	210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
2-Methylnaphthalene	**230**		210	37	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Naphthalene	**100**	**J**	210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Phenanthrene	**220**		42	20	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Pyrene	**230**		100	19	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*30 - 130*	*03/27/13 15:04*	*04/01/13 17:37*	*4*

Client Sample ID: FM0017D-CS-SP

Lab Sample ID: 680-88632-30

Date Collected: 03/21/13 14:10
Date Received: 03/23/13 09:39

Matrix: Solid
Percent Solids: 76.1

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	☼	03/27/13 15:04	04/01/13 17:55	4
Acenaphthylene	210	U	210	26	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Anthracene	44	U	44	22	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Benzo[a]anthracene	**96**		42	20	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Benzo[a]pyrene	**120**	**J**	54	27	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Benzo[b]fluoranthene	**150**		64	32	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Benzo[g,h,i]perylene	**95**	**J**	100	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Benzo[k]fluoranthene	**55**		42	19	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Chrysene	**150**	**J**	47	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Dibenz(a,h)anthracene	**29**	**J**	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Fluoranthene	**170**		100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Fluorene	**39**	**J**	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Indeno[1,2,3-cd]pyrene	**87**	**J**	100	37	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
1-Methylnaphthalene	**300**		210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
2-Methylnaphthalene	**460**		210	37	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Naphthalene	**420**		210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Phenanthrene	**290**		42	20	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Pyrene	**160**		100	19	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96*		*30 - 130*	*03/27/13 15:04*	*04/01/13 17:55*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: CV0197A-CS

Date Collected: 03/21/13 13:30
Date Received: 03/23/13 09:39

Lab Sample ID: 680-88632-31
Matrix: Solid
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	590	U	590	120	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Acenaphthylene	240	U	240	29	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Anthracene	**93**		50	25	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Benzo[a]anthracene	**440**		47	23	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Benzo[a]pyrene	**360**	J	61	31	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Benzo[b]fluoranthene	**510**		72	36	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Benzo[g,h,i]perylene	**280**		120	26	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Benzo[k]fluoranthene	**210**		47	21	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Chrysene	**380**	J	53	27	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Dibenz(a,h)anthracene	**88**	J	120	24	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Fluoranthene	**540**		120	24	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Fluorene	**33**	J	120	24	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Indeno[1,2,3-cd]pyrene	**220**		120	42	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
1-Methylnaphthalene	**130**	J	240	26	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
2-Methylnaphthalene	**190**	J	240	42	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Naphthalene	**130**	J	240	26	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Phenanthrene	**420**		47	23	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Pyrene	**560**		120	22	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*30 - 130*	*03/27/13 15:04*	*04/01/13 18:13*	*4*

Client Sample ID: CV0197B-CS

Date Collected: 03/21/13 13:45
Date Received: 03/23/13 09:39

Lab Sample ID: 680-88632-32
Matrix: Solid
Percent Solids: 65.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	620	U	620	120	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Acenaphthylene	**96**	J	250	31	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Anthracene	**110**		52	26	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Benzo[a]anthracene	**550**		49	24	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Benzo[a]pyrene	**570**	J	64	32	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Benzo[b]fluoranthene	**870**		75	38	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Benzo[g,h,i]perylene	**470**		120	27	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Benzo[k]fluoranthene	**440**		49	22	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Chrysene	**640**	J	55	28	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Dibenz(a,h)anthracene	**130**		120	25	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Fluoranthene	**1000**	J	120	25	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Fluorene	**49**	J	120	25	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Indeno[1,2,3-cd]pyrene	**330**		120	44	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
1-Methylnaphthalene	**120**	J	250	27	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
2-Methylnaphthalene	**190**	J	250	44	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Naphthalene	**160**	J	250	27	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Phenanthrene	**630**		49	24	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Pyrene	**1000**		120	23	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*30 - 130*	*03/27/13 15:04*	*04/01/13 18:31*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: CV0197B-CSD

Date Collected: 03/21/13 13:45
Date Received: 03/23/13 09:39

Lab Sample ID: 680-88632-33
Matrix: Solid
Percent Solids: 66.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	600	U	600	120	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Acenaphthylene	**130**	J	240	30	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Anthracene	**200**		51	25	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Benzo[a]anthracene	**820**		48	23	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Benzo[a]pyrene	**650**	J	63	31	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Benzo[b]fluoranthene	**1000**		73	37	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Benzo[g,h,i]perylene	**420**		120	26	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Benzo[k]fluoranthene	**420**		48	22	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Chrysene	**720**	J	54	27	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Dibenz(a,h)anthracene	**130**		120	25	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Fluoranthene	**1700**	J	120	24	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Fluorene	**63**	J	120	25	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Indeno[1,2,3-cd]pyrene	**270**		120	43	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
1-Methylnaphthalene	**100**	J	240	26	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
2-Methylnaphthalene	**180**	J	240	43	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Naphthalene	**120**	J	240	26	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Phenanthrene	**820**		48	23	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Pyrene	**1500**		120	22	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*03/27/13 15:04*	*04/01/13 18:50*	*4*

Client Sample ID: CV0197C-CS

Date Collected: 03/21/13 13:50
Date Received: 03/23/13 09:39

Lab Sample ID: 680-88632-34
Matrix: Solid
Percent Solids: 69.4

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	☼	03/27/13 15:04	04/01/13 19:08	4
Acenaphthylene	**44**	J	230	29	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Anthracene	**120**		49	24	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Benzo[a]anthracene	**430**		46	23	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Benzo[a]pyrene	**390**	J	60	30	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Benzo[b]fluoranthene	**790**		71	35	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Benzo[g,h,i]perylene	**620**		120	25	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Benzo[k]fluoranthene	**200**		46	21	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Chrysene	**280**	J	52	26	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Dibenz(a,h)anthracene	**130**		120	24	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Fluoranthene	**590**		120	23	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Fluorene	**45**	J	120	24	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Indeno[1,2,3-cd]pyrene	**430**		120	41	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
1-Methylnaphthalene	**80**	J	230	25	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
2-Methylnaphthalene	**96**	J	230	41	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Naphthalene	**110**	J	230	25	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Phenanthrene	**330**		46	23	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Pyrene	**460**		120	21	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*03/27/13 15:04*	*04/01/13 19:08*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: CV0813A-CS

Date Collected: 03/21/13 14:20
Date Received: 03/23/13 09:39

Lab Sample ID: 680-88632-35
Matrix: Solid
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	97	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Acenaphthylene	68	J	190	24	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Anthracene	54		41	20	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Benzo[a]anthracene	350		39	19	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Benzo[a]pyrene	330	J	51	25	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Benzo[b]fluoranthene	600		59	30	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Benzo[g,h,i]perylene	370		97	21	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Benzo[k]fluoranthene	280		39	18	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Chrysene	440	J	44	22	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Dibenz(a,h)anthracene	90	J	97	20	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Fluoranthene	630		97	19	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Fluorene	23	J	97	20	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Indeno[1,2,3-cd]pyrene	250		97	35	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
1-Methylnaphthalene	120	J	190	21	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
2-Methylnaphthalene	140	J	190	35	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Naphthalene	91	J	190	21	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Phenanthrene	490		39	19	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Pyrene	570		97	18	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*30 - 130*	*03/27/13 15:04*	*04/01/13 19:26*	*4*

Client Sample ID: CV0813B-CS

Date Collected: 03/21/13 14:30
Date Received: 03/23/13 09:39

Lab Sample ID: 680-88632-36
Matrix: Solid
Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Acenaphthylene	59	J	200	25	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Anthracene	94		42	21	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Benzo[a]anthracene	390		40	20	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Benzo[a]pyrene	340	J	53	26	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Benzo[b]fluoranthene	630		62	31	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Benzo[g,h,i]perylene	350		100	22	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Benzo[k]fluoranthene	170		40	18	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Chrysene	440	J	46	23	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Dibenz(a,h)anthracene	77	J	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Fluoranthene	690		100	20	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Fluorene	45	J	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Indeno[1,2,3-cd]pyrene	250		100	36	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
1-Methylnaphthalene	340		200	22	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
2-Methylnaphthalene	420		200	36	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Naphthalene	300		200	22	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Phenanthrene	630		40	20	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Pyrene	650		100	19	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*03/27/13 15:04*	*04/01/13 19:44*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: FM0346A-CS

Date Collected: 03/21/13 15:20
Date Received: 03/23/13 09:39

Lab Sample ID: 680-88632-37
Matrix: Solid
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Acenaphthylene	**8.7**	**J**	50	6.2	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Anthracene	**12**		10	5.2	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Benzo[a]anthracene	**78**		10	4.9	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Benzo[a]pyrene	**94**	**J**	13	6.5	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Benzo[b]fluoranthene	**140**		15	7.6	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Benzo[g,h,i]perylene	**78**		25	5.5	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Benzo[k]fluoranthene	**63**		10	4.5	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Chrysene	**96**	**J**	11	5.6	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Dibenz(a,h)anthracene	**25**		25	5.1	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Fluoranthene	**130**		25	5.0	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Fluorene	**7.3**	**J**	25	5.1	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Indeno[1,2,3-cd]pyrene	**68**		25	8.9	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
1-Methylnaphthalene	**24**	**J**	50	5.5	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
2-Methylnaphthalene	**29**	**J**	50	8.9	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Naphthalene	**34**	**J**	50	5.5	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Phenanthrene	**78**		10	4.9	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Pyrene	**130**		25	4.6	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*03/27/13 15:04*	*04/01/13 20:03*	*1*

Client Sample ID: FM0346B-CS

Date Collected: 03/21/13 15:40
Date Received: 03/23/13 09:39

Lab Sample ID: 680-88632-38
Matrix: Solid
Percent Solids: 72.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	560	U	560	110	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Acenaphthylene	**68**	**J**	220	28	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Anthracene	**69**		47	23	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Benzo[a]anthracene	**560**		45	22	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Benzo[a]pyrene	**490**	**J**	58	29	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Benzo[b]fluoranthene	**690**		68	34	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Benzo[g,h,i]perylene	**320**		110	24	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Benzo[k]fluoranthene	**370**		45	20	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Chrysene	**620**	**J**	50	25	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Dibenz(a,h)anthracene	**120**		110	23	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Fluoranthene	**1000**		110	22	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Fluorene	110	U	110	23	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Indeno[1,2,3-cd]pyrene	**350**		110	40	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
1-Methylnaphthalene	**85**	**J**	220	24	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
2-Methylnaphthalene	**130**	**J**	220	40	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Naphthalene	**94**	**J**	220	24	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Phenanthrene	**550**		45	22	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Pyrene	**900**		110	21	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*30 - 130*	*03/27/13 15:04*	*04/01/13 20:21*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: HP0323A-CS

Lab Sample ID: 680-88632-39

Date Collected: 03/21/13 16:00
Date Received: 03/23/13 09:39

Matrix: Solid
Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Acenaphthylene	**34**	**J**	51	6.3	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Anthracene	**48**		11	5.3	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Benzo[a]anthracene	**270**		10	4.9	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Benzo[a]pyrene	**260**	**J**	13	6.6	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Benzo[b]fluoranthene	**480**		15	7.7	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Benzo[g,h,i]perylene	**210**		25	5.6	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Benzo[k]fluoranthene	**220**		10	4.6	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Chrysene	**310**	**J**	11	5.7	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Dibenz(a,h)anthracene	**68**		25	5.2	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Fluoranthene	**330**		25	5.1	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Fluorene	**20**	**J**	25	5.2	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Indeno[1,2,3-cd]pyrene	**200**		25	9.0	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
1-Methylnaphthalene	**120**		51	5.6	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
2-Methylnaphthalene	**130**		51	9.0	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Naphthalene	**120**		51	5.6	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Phenanthrene	**220**		10	4.9	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Pyrene	**300**		25	4.7	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*03/27/13 15:04*	*04/01/13 20:39*	*1*

Client Sample ID: HP0323B-CS

Lab Sample ID: 680-88632-40

Date Collected: 03/21/13 16:10
Date Received: 03/23/13 09:39

Matrix: Solid
Percent Solids: 77.4

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	☼	03/27/13 15:04	04/01/13 20:58	4
Acenaphthylene	**61**	**J**	210	26	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Anthracene	**89**		43	22	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Benzo[a]anthracene	**520**		41	20	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Benzo[a]pyrene	**440**	**J**	54	27	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Benzo[b]fluoranthene	**1000**		63	32	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Benzo[g,h,i]perylene	**480**		100	23	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Benzo[k]fluoranthene	**210**		41	19	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Chrysene	**670**	**J**	47	23	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Dibenz(a,h)anthracene	**160**		100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Fluoranthene	**700**		100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Fluorene	**45**	**J**	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Indeno[1,2,3-cd]pyrene	**450**		100	37	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
1-Methylnaphthalene	**170**	**J**	210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
2-Methylnaphthalene	**220**		210	37	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Naphthalene	**260**		210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Phenanthrene	**510**		41	20	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Pyrene	**660**		100	19	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*03/27/13 15:04*	*04/01/13 20:58*	*4*

ANALYTICAL REPORT

Job Number: 680-88632-2

SDG Number: 68088632-2

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
4/4/2013 9:40 AM

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

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

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88632-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0476A-CS-SP (680-88632-21), CV0476B-CS-SP (680-88632-22), CV0566A-CS-SP (680-88632-23), CV0566B-CS-SP (680-88632-24), CV0663A-CS-SP (680-88632-25), CV0663B-CS-SP (680-88632-26), FM0017A-CS-SP (680-88632-27), FM0017B-CS-SP (680-88632-28), FM0017C-CS-SP (680-88632-29), FM0017D-CS-SP (680-88632-30), CV0197A-CS (680-88632-31), CV0197B-CS (680-88632-32), CV0197B-CSD (680-88632-33), CV0197C-CS (680-88632-34), CV0813A-CS (680-88632-35), CV0813B-CS (680-88632-36), FM0346A-CS (680-88632-37), FM0346B-CS (680-88632-38), HP0323A-CS (680-88632-39) and HP0323B-CS (680-88632-40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/27/2013 and 03/29/2013 and analyzed on 03/28/2013, 04/01/2013 and 04/02/2013.

Samples CV0663A-CS-SP (680-88632-25)[4X], CV0663B-CS-SP (680-88632-26)[4X], FM0017A-CS-SP (680-88632-27)[4X], FM0017B-CS-SP (680-88632-28)[4X], FM0017C-CS-SP (680-88632-29)[4X], FM0017D-CS-SP (680-88632-30)[4X], CV0197A-CS (680-88632-31)[4X], CV0197B-CS (680-88632-32)[4X], CV0197B-CSD (680-88632-33)[4X], CV0197C-CS (680-88632-34)[4X], CV0813A-CS (680-88632-35)[4X], CV0813B-CS (680-88632-36)[4X], FM0346B-CS (680-88632-38)[4X] and HP0323B-CS (680-88632-40)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88632-10 in batch 660-135996. Several analytes also exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88592-21 in batch 660-136038.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the sp king amount.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-2
Sdg Number: 68088632-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88632-21	CV0476A-CS-SP	Solid	03/21/2013 1535	03/23/2013 0939
680-88632-21MS	CV0476A-CS-SP	Solid	03/21/2013 1535	03/23/2013 0939
680-88632-21MSD	CV0476A-CS-SP	Solid	03/21/2013 1535	03/23/2013 0939
680-88632-22	CV0476B-CS-SP	Solid	03/21/2013 1544	03/23/2013 0939
680-88632-23	CV0566A-CS-SP	Solid	03/21/2013 1601	03/23/2013 0939
680-88632-24	CV0566B-CS-SP	Solid	03/21/2013 1610	03/23/2013 0939
680-88632-25	CV0663A-CS-SP	Solid	03/21/2013 1315	03/23/2013 0939
680-88632-26	CV0663B-CS-SP	Solid	03/21/2013 1320	03/23/2013 0939
680-88632-27	FM0017A-CS-SP	Solid	03/21/2013 1355	03/23/2013 0939
680-88632-28	FM0017B-CS-SP	Solid	03/21/2013 1405	03/23/2013 0939
680-88632-29	FM0017C-CS-SP	Solid	03/21/2013 1400	03/23/2013 0939
680-88632-30	FM0017D-CS-SP	Solid	03/21/2013 1410	03/23/2013 0939
680-88632-31	CV0197A-CS	Solid	03/21/2013 1330	03/23/2013 0939
680-88632-32	CV0197B-CS	Solid	03/21/2013 1345	03/23/2013 0939
680-88632-33	CV0197B-CSD	Solid	03/21/2013 1345	03/23/2013 0939
680-88632-34	CV0197C-CS	Solid	03/21/2013 1350	03/23/2013 0939
680-88632-35	CV0813A-CS	Solid	03/21/2013 1420	03/23/2013 0939
680-88632-36	CV0813B-CS	Solid	03/21/2013 1430	03/23/2013 0939
680-88632-37	FM0346A-CS	Solid	03/21/2013 1520	03/23/2013 0939
680-88632-38	FM0346B-CS	Solid	03/21/2013 1540	03/23/2013 0939
680-88632-39	HP0323A-CS	Solid	03/21/2013 1600	03/23/2013 0939
680-88632-40	HP0323B-CS	Solid	03/21/2013 1610	03/23/2013 0939

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-2
Sdg Number: 68088632-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Microwave Extraction	TAL TAM		SW846 3546
Percent Moisture	TAL TAM	EPA Moisture	

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-2
Sdg Number: 68088632-2

Method	Analyst	Analyst ID
SW846 8270C LL	Cantin, Stephen C	SCC
EPA Moisture	Galio, Andrew	AG

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-2
Sdg Number: 68088632-2

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-2
Sdg Number: 68088632-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-135822					
LCS 660-135822/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135822/1-A	Method Blank	T	Solid	3546	
680-88592-A-21-B MS	Matrix Spike	T	Solid	3546	
680-88592-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88632-22	CV0476B-CS-SP	T	Solid	3546	
680-88632-23	CV0566A-CS-SP	T	Solid	3546	
680-88632-24	CV0566B-CS-SP	T	Solid	3546	
Prep Batch: 660-135843					
LCS 660-135843/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135843/1-A	Method Blank	T	Solid	3546	
680-88632-A-10-D MS	Matrix Spike	T	Solid	3546	
680-88632-A-10-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88632-25	CV0663A-CS-SP	T	Solid	3546	
680-88632-26	CV0663B-CS-SP	T	Solid	3546	
680-88632-27	FM0017A-CS-SP	T	Solid	3546	
680-88632-28	FM0017B-CS-SP	T	Solid	3546	
680-88632-29	FM0017C-CS-SP	T	Solid	3546	
680-88632-30	FM0017D-CS-SP	T	Solid	3546	
680-88632-31	CV0197A-CS	T	Solid	3546	
680-88632-32	CV0197B-CS	T	Solid	3546	
680-88632-33	CV0197B-CSD	T	Solid	3546	
680-88632-34	CV0197C-CS	T	Solid	3546	
680-88632-35	CV0813A-CS	T	Solid	3546	
680-88632-36	CV0813B-CS	T	Solid	3546	
680-88632-37	FM0346A-CS	T	Solid	3546	
680-88632-38	FM0346B-CS	T	Solid	3546	
680-88632-39	HP0323A-CS	T	Solid	3546	
680-88632-40	HP0323B-CS	T	Solid	3546	
Analysis Batch:660-135902					
680-88632-22	CV0476B-CS-SP	T	Solid	8270C LL	660-135822
680-88632-23	CV0566A-CS-SP	T	Solid	8270C LL	660-135822
680-88632-24	CV0566B-CS-SP	T	Solid	8270C LL	660-135822
Prep Batch: 660-135924					
LCS 660-135924/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135924/1-A	Method Blank	T	Solid	3546	
680-88632-21	CV0476A-CS-SP	T	Solid	3546	
680-88632-21MS	Matrix Spike	T	Solid	3546	
680-88632-21MSD	Matrix Spike Duplicate	T	Solid	3546	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-2
Sdg Number: 68088632-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-135996					
LCS 660-135843/2-A	Lab Control Sample	T	Solid	8270C LL	660-135843
MB 660-135843/1-A	Method Blank	T	Solid	8270C LL	660-135843
680-88632-A-10-D MS	Matrix Spike	T	Solid	8270C LL	660-135843
680-88632-A-10-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135843
680-88632-25	CV0663A-CS-SP	T	Solid	8270C LL	660-135843
680-88632-26	CV0663B-CS-SP	T	Solid	8270C LL	660-135843
680-88632-27	FM0017A-CS-SP	T	Solid	8270C LL	660-135843
680-88632-28	FM0017B-CS-SP	T	Solid	8270C LL	660-135843
680-88632-29	FM0017C-CS-SP	T	Solid	8270C LL	660-135843
680-88632-30	FM0017D-CS-SP	T	Solid	8270C LL	660-135843
680-88632-31	CV0197A-CS	T	Solid	8270C LL	660-135843
680-88632-32	CV0197B-CS	T	Solid	8270C LL	660-135843
680-88632-33	CV0197B-CSD	T	Solid	8270C LL	660-135843
680-88632-34	CV0197C-CS	T	Solid	8270C LL	660-135843
680-88632-35	CV0813A-CS	T	Solid	8270C LL	660-135843
680-88632-36	CV0813B-CS	T	Solid	8270C LL	660-135843
680-88632-37	FM0346A-CS	T	Solid	8270C LL	660-135843
680-88632-38	FM0346B-CS	T	Solid	8270C LL	660-135843
680-88632-39	HP0323A-CS	T	Solid	8270C LL	660-135843
680-88632-40	HP0323B-CS	T	Solid	8270C LL	660-135843
Analysis Batch:660-136038					
LCS 660-135822/2-A	Lab Control Sample	T	Solid	8270C LL	660-135822
MB 660-135822/1-A	Method Blank	T	Solid	8270C LL	660-135822
680-88592-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-135822
680-88592-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135822
Analysis Batch:660-136079					
LCS 660-135924/2-A	Lab Control Sample	T	Solid	8270C LL	660-135924
MB 660-135924/1-A	Method Blank	T	Solid	8270C LL	660-135924
680-88632-21	CV0476A-CS-SP	T	Solid	8270C LL	660-135924
680-88632-21MS	Matrix Spike	T	Solid	8270C LL	660-135924
680-88632-21MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135924

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-2
Sdg Number: 68088632-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-135786					
680-88632-A-10 MS	Matrix Spike	T	Solid	Moisture	
680-88632-A-10 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88632-21	CV0476A-CS-SP	T	Solid	Moisture	
680-88632-21MS	Matrix Spike	T	Solid	Moisture	
680-88632-21MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88632-22	CV0476B-CS-SP	T	Solid	Moisture	
680-88632-23	CV0566A-CS-SP	T	Solid	Moisture	
680-88632-24	CV0566B-CS-SP	T	Solid	Moisture	
680-88632-25	CV0663A-CS-SP	T	Solid	Moisture	
680-88632-26	CV0663B-CS-SP	T	Solid	Moisture	
680-88632-27	FM0017A-CS-SP	T	Solid	Moisture	
680-88632-28	FM0017B-CS-SP	T	Solid	Moisture	
680-88632-29	FM0017C-CS-SP	T	Solid	Moisture	
680-88632-30	FM0017D-CS-SP	T	Solid	Moisture	
680-88632-31	CV0197A-CS	T	Solid	Moisture	
680-88632-32	CV0197B-CS	T	Solid	Moisture	
680-88632-33	CV0197B-CSD	T	Solid	Moisture	
680-88632-34	CV0197C-CS	T	Solid	Moisture	
680-88632-35	CV0813A-CS	T	Solid	Moisture	
680-88632-37	FM0346A-CS	T	Solid	Moisture	
680-88632-38	FM0346B-CS	T	Solid	Moisture	
680-88632-40	HP0323B-CS	T	Solid	Moisture	
680-88632-A-45 MS	Matrix Spike	T	Solid	Moisture	
680-88632-A-45 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
Analysis Batch:660-135794					
LCS 660-135794/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-135794/11	Lab Control Sample Duplicate	T	Solid	Moisture	
680-88632-36	CV0813B-CS	T	Solid	Moisture	
680-88632-39	HP0323A-CS	T	Solid	Moisture	

Report Basis
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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: BSMC5973 Analysis Batch Number: 134776

Lab Sample ID: IC 660-134776/3 Client Sample ID:

Date Analyzed: 02/22/13 11:57 Lab File ID: 1CB22003.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/

Lab Sample ID: IC 660-134776/4 Client Sample ID:

Date Analyzed: 02/22/13 12:16 Lab File ID: 1CB22004.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	02/22/

Lab Sample ID: IC 660-134776/5 Client Sample ID:

Date Analyzed: 02/22/13 12:34 Lab File ID: 1CB22005.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/

Lab Sample ID: IC 660-134776/6 Client Sample ID:

Date Analyzed: 02/22/13 12:53 Lab File ID: 1CB22006.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/

Lab Sample ID: ICIS 660-134776/7 Client Sample ID:

Date Analyzed: 02/22/13 13:11 Lab File ID: 1CB22007.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/

Lab Sample ID: IC 660-134776/8 Client Sample ID:

Date Analyzed: 02/22/13 13:29 Lab File ID: 1CB22008.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/

Lab Sample ID: IC 660-134776/9 Client Sample ID:

Date Analyzed: 02/22/13 13:48 Lab File ID: 1CB22009.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/22/

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: BSMC5973 Analysis Batch Number: 134776

Lab Sample ID: ICV 660-134776/10 Client Sample ID:

Date Analyzed: 02/22/13 14:06 Lab File ID: 1CB22010.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/

DB-5MS _____ ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: BSMC5973 Analysis Batch Number: 135902

Lab Sample ID: CCVIS 660-135902/3 Client Sample ID:

Date Analyzed: 03/28/13 11:59 Lab File ID: 1CC28003.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	03/28/

Lab Sample ID: 680-88632-22 Client Sample ID: CV0476B-CS-SP

Date Analyzed: 03/28/13 23:00 Lab File ID: 1CC28039.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.54	Split Peak	cantins	04/02/
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	04/02/
Dibenz(a,h)anthracene	10.06	Baseline Event	cantins	04/02/
Benzo[g,h,i]perylene	10.39	Baseline Event	cantins	04/02/

Lab Sample ID: 680-88632-23 Client Sample ID: CV0566A-CS-SP

Date Analyzed: 03/28/13 23:19 Lab File ID: 1CC28040.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.54	Split Peak	cantins	04/02/
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/02/
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/02/

Lab Sample ID: 680-88632-24 Client Sample ID: CV0566B-CS-SP

Date Analyzed: 03/28/13 23:37 Lab File ID: 1CC28041.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.54	Split Peak	cantins	04/02/
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/02/
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	04/02/
Dibenz(a,h)anthracene	10.07	Baseline Event	cantins	04/02/
Benzo[g,h,i]perylene	10.39	Baseline Event	cantins	04/02/

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: BSMC5973 Analysis Batch Number: 135996

Lab Sample ID: CCVIS 660-135996/3 Client Sample ID:

Date Analyzed: 04/01/13 11:31 Lab File ID: 1CD01003.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	04/01/

Lab Sample ID: LCS 660-135843/2-A Client Sample ID:

Date Analyzed: 04/01/13 15:10 Lab File ID: 1CD01014.D GC Column:

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

Lab Sample ID: 680-88632-A-10-D MS Client Sample ID:

Date Analyzed: 04/01/13 15:47 Lab File ID: 1CD01016.D GC Column:

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

Lab Sample ID: 680-88632-A-10-C MSD Client Sample ID:

Date Analyzed: 04/01/13 16:05 Lab File ID: 1CD01017.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.03	Split Peak	cantins	04/02/

Lab Sample ID: 680-88632-25 Client Sample ID: CV0663A-CS-SP

Date Analyzed: 04/01/13 16:23 Lab File ID: 1CD01018.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/02/
Dibenz(a,h)anthracene	10.03	Baseline Event	cantins	04/02/

Lab Sample ID: 680-88632-26 Client Sample ID: CV0663B-CS-SP

Date Analyzed: 04/01/13 16:41 Lab File ID: 1CD01019.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.53	Split Peak	cantins	04/02/
Benzo[k]fluoranthene	8.54	Baseline Event	cantins	04/02/
Indeno[1,2,3-cd]pyrene	10.03	Split Peak	cantins	04/02/

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: BSMC5973 Analysis Batch Number: 135996

Lab Sample ID: 680-88632-27 Client Sample ID: FM0017A-CS-SP

Date Analyzed: 04/01/13 17:00 Lab File ID: 1CD01020.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/02/
Dibenz(a,h)anthracene	10.04	Baseline Event	cantins	04/02/
Benzo[g,h,i]perylene	10.37	Baseline Event	cantins	04/02/

Lab Sample ID: 680-88632-28 Client Sample ID: FM0017B-CS-SP

Date Analyzed: 04/01/13 17:18 Lab File ID: 1CD01021.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.53	Split Peak	cantins	04/02/
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/02/
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/02/
Dibenz(a,h)anthracene	10.03	Baseline Event	cantins	04/02/
Benzo[g,h,i]perylene	10.36	Baseline Event	cantins	04/02/

Lab Sample ID: 680-88632-29 Client Sample ID: FM0017C-CS-SP

Date Analyzed: 04/01/13 17:37 Lab File ID: 1CD01022.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.03	Baseline Event	cantins	04/02/
Dibenz(a,h)anthracene	10.04	Baseline Event	cantins	04/02/

Lab Sample ID: 680-88632-30 Client Sample ID: FM0017D-CS-SP

Date Analyzed: 04/01/13 17:55 Lab File ID: 1CD01023.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.53	Split Peak	cantins	04/02/
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/02/
Dibenz(a,h)anthracene	10.03	Baseline Event	cantins	04/02/
Indeno[1,2,3-cd]pyrene	10.03	Baseline Event	cantins	04/02/
Benzo[g,h,i]perylene	10.36	Baseline Event	cantins	04/02/

Lab Sample ID: 680-88632-31 Client Sample ID: CV0197A-CS

Date Analyzed: 04/01/13 18:13 Lab File ID: 1CD01024.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.53	Split Peak	cantins	04/03/
Benzo[k]fluoranthene	8.54	Baseline Event	cantins	04/03/
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/03/
Benzo[g,h,i]perylene	10.37	Baseline Event	cantins	04/03/

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: BSMC5973 Analysis Batch Number: 135996

Lab Sample ID: 680-88632-32 Client Sample ID: CV0197B-CS

Date Analyzed: 04/01/13 18:31 Lab File ID: 1CD01025.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.53	Split Peak	cantins	04/03/
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/03/
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/03/
Dibenz(a,h)anthracene	10.03	Baseline Event	cantins	04/03/

Lab Sample ID: 680-88632-33 Client Sample ID: CV0197B-CSD

Date Analyzed: 04/01/13 18:50 Lab File ID: 1CD01026.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.53	Split Peak	cantins	04/03/
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/03/
Dibenz(a,h)anthracene	10.02	Baseline Event	cantins	04/03/
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/03/

Lab Sample ID: 680-88632-34 Client Sample ID: CV0197C-CS

Date Analyzed: 04/01/13 19:08 Lab File ID: 1CD01027.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.53	Split Peak	cantins	04/03/
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/03/
Dibenz(a,h)anthracene	10.04	Baseline Event	cantins	04/03/
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	04/03/
Benzo[g,h,i]perylene	10.39	Baseline Event	cantins	04/03/

Lab Sample ID: 680-88632-35 Client Sample ID: CV0813A-CS

Date Analyzed: 04/01/13 19:26 Lab File ID: 1CD01028.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.03	Split Peak	cantins	04/03/

Lab Sample ID: 680-88632-36 Client Sample ID: CV0813B-CS

Date Analyzed: 04/01/13 19:44 Lab File ID: 1CD01029.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.53	Split Peak	cantins	04/03/
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/03/
Indeno[1,2,3-cd]pyrene	10.03	Split Peak	cantins	04/03/

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Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: BSMC5973 Analysis Batch Number: 135996

Lab Sample ID: 680-88632-37 Client Sample ID: FM0346A-CS

Date Analyzed: 04/01/13 20:03 Lab File ID: 1CD01030.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.53	Split Peak	cantins	04/03/
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/03/
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/03/
Benzo[g,h,i]perylene	10.37	Baseline Event	cantins	04/03/

Lab Sample ID: 680-88632-38 Client Sample ID: FM0346B-CS

Date Analyzed: 04/01/13 20:21 Lab File ID: 1CD01031.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.53	Split Peak	cantins	04/03/
Benzo[k]fluoranthene	8.54	Baseline Event	cantins	04/03/
Indeno[1,2,3-cd]pyrene	10.03	Split Peak	cantins	04/03/
Dibenz(a,h)anthracene	10.05	Baseline Event	cantins	04/03/
Benzo[g,h,i]perylene	10.37	Baseline Event	cantins	04/03/

Lab Sample ID: 680-88632-39 Client Sample ID: HP0323A-CS

Date Analyzed: 04/01/13 20:39 Lab File ID: 1CD01032.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.53	Split Peak	cantins	04/03/
Benzo[k]fluoranthene	8.54	Baseline Event	cantins	04/03/
Indeno[1,2,3-cd]pyrene	10.03	Split Peak	cantins	04/03/

Lab Sample ID: 680-88632-40 Client Sample ID: HP0323B-CS

Date Analyzed: 04/01/13 20:58 Lab File ID: 1CD01033.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.53	Split Peak	cantins	04/03/
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/03/
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/03/

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

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:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Dibenz(a,h)anthracene	10.09	Baseline Event	cantins	04/02/

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

Date Analyzed: 04/02/13 13:44 Lab File ID: 1CD02006.D GC Column:

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

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

Date Analyzed: 04/02/13 14:02 Lab File ID: 1CD02007.D GC Column:

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

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

Date Analyzed: 04/02/13 14:20 Lab File ID: 1CD02008.D GC Column:

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

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

Date Analyzed: 04/02/13 14:39 Lab File ID: 1CD02009.D GC Column:

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

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

Date Analyzed: 04/02/13 14:57 Lab File ID: 1CD02010.D GC Column:

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

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

Date Analyzed: 04/02/13 15:15 Lab File ID: 1CD02011.D GC Column:

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

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: BSMC5973 Analysis Batch Number: 136048

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

Date Analyzed: 04/02/13 15:34 Lab File ID: 1CD02012.D GC Column:

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

DB-5MS _____ ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: BSMC5973 Analysis Batch Number: 136079

Lab Sample ID: CCVIS 660-136079/3 Client Sample ID:

Date Analyzed: 04/02/13 16:40 Lab File ID: 1CD02015.D GC Column:

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

Lab Sample ID: LCS 660-135924/2-A Client Sample ID:

Date Analyzed: 04/02/13 20:19 Lab File ID: 1CD02027.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/03/

Lab Sample ID: 680-88632-21 Client Sample ID: CV0476A-CS-SP

Date Analyzed: 04/02/13 20:37 Lab File ID: 1CD02028.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/03/
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/03/
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/03/

Lab Sample ID: 680-88632-21 MS Client Sample ID: CV0476A-CS-SP MS

Date Analyzed: 04/02/13 20:56 Lab File ID: 1CD02029.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/03/

Lab Sample ID: 680-88632-21 MSD Client Sample ID: CV0476A-CS-SP MSD

Date Analyzed: 04/02/13 21:14 Lab File ID: 1CD02030.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/03/

DB-5MS _____ ID: 250(um)

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Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: BSMD5973 Analysis Batch Number: 134781

Lab Sample ID: IC 660-134781/3 Client Sample ID:

Date Analyzed: 02/22/13 12:13 Lab File ID: 1DB22003.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Dibenz(a,h)anthracene	14.97	Baseline Event	cantins	02/22/
Benzo[g,h,i]perylene	15.38	Baseline Event	cantins	02/22/

Lab Sample ID: IC 660-134781/4 Client Sample ID:

Date Analyzed: 02/22/13 12:35 Lab File ID: 1DB22004.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.93	Split Peak	cantins	02/22/

Lab Sample ID: IC 660-134781/5 Client Sample ID:

Date Analyzed: 02/22/13 12:58 Lab File ID: 1DB22005.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.94	Split Peak	cantins	02/22/

Lab Sample ID: IC 660-134781/6 Client Sample ID:

Date Analyzed: 02/22/13 13:21 Lab File ID: 1DB22006.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.94	Split Peak	cantins	02/22/

Lab Sample ID: IC 660-134781/9 Client Sample ID:

Date Analyzed: 02/22/13 14:28 Lab File ID: 1DB22009.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.00	Split Peak	cantins	02/22/

Lab Sample ID: ICV 660-134781/10 Client Sample ID:

Date Analyzed: 02/22/13 14:51 Lab File ID: 1DB22010.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Carbazole	9.32	Baseline Event	cantins	02/22/

DB-5MS _____ ID: 250(um)

'

DB-5MS _____ ID: 250(um)

'

DB-5MS _____ ID: 250(um)

'

DB-5MS _____ ID: 250(um)

'

DB-5MS _____ ID: 250(um)

'

DB-5MS _____ ID: 250(um)

'

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: BSMD5973 Analysis Batch Number: 136038

Lab Sample ID: CCVIS 660-136038/9 Client Sample ID:

Date Analyzed: 03/28/13 14:57 Lab File ID: 1DC28009.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.83	Split Peak	cantins	03/28/

Lab Sample ID: LCS 660-135822/2-A Client Sample ID:

Date Analyzed: 03/28/13 16:05 Lab File ID: 1DC28012.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.80	Split Peak	cantins	04/02/

Lab Sample ID: 680-88592-A-21-B MS Client Sample ID:

Date Analyzed: 03/28/13 16:50 Lab File ID: 1DC28014.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.79	Split Peak	cantins	04/02/

Lab Sample ID: 680-88592-A-21-C MSD Client Sample ID:

Date Analyzed: 03/28/13 17:12 Lab File ID: 1DC28015.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.79	Split Peak	cantins	04/02/

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

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.: 680-88632-2

SDG No.: 68088632-2

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0476A-CS-SP	680-88632-21	55
CV0476B-CS-SP	680-88632-22	54
CV0566A-CS-SP	680-88632-23	36
CV0566B-CS-SP	680-88632-24	40
CV0663A-CS-SP	680-88632-25	71
CV0663B-CS-SP	680-88632-26	76
FM0017A-CS-SP	680-88632-27	78
FM0017B-CS-SP	680-88632-28	88
FM0017C-CS-SP	680-88632-29	64
FM0017D-CS-SP	680-88632-30	96
CV0197A-CS	680-88632-31	90
CV0197B-CS	680-88632-32	87
CV0197B-CSD	680-88632-33	67
CV0197C-CS	680-88632-34	61
CV0813A-CS	680-88632-35	81
CV0813B-CS	680-88632-36	63
FM0346A-CS	680-88632-37	63
FM0346B-CS	680-88632-38	90
HP0323A-CS	680-88632-39	46
HP0323B-CS	680-88632-40	66
	MB 660-135822/1-A	65
	MB 660-135843/1-A	60
	MB 660-135924/1-A	62
	LCS 660-135822/2-A	70
	LCS 660-135843/2-A	81
	LCS 660-135924/2-A	66
	680-88592-A-21-B MS	57
	680-88632-A-10-D MS	75
CV0476A-CS-SP MS	680-88632-21 MS	62
	680-88592-A-21-C MSD	63

QC LIMITS

OTPH = o-Terphenyl 30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
	680-88632-A-10-C MSD	65
CV0476A-CS-SP MSD	680-88632-21 MSD	64

	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.: 680-88632-2

SDG No.: 68088632-2

Matrix: Solid Level: Low Lab File ID: 1DC28012.D

Lab ID: LCS 660-135822/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	670	455	68	39-130	
Acenaphthylene	670	472	70	38-130	
Anthracene	670	464	69	37-130	
Benzo[a]anthracene	670	520	78	40-130	
Benzo[a]pyrene	670	459	69	49-130	
Benzo[b]fluoranthene	670	503	75	37-130	
Benzo[g,h,i]perylene	670	486	73	32-130	
Benzo[k]fluoranthene	670	484	72	32-130	
Chrysene	670	464	69	41-130	
Dibenz(a,h)anthracene	670	527	79	27-130	
Fluoranthene	670	488	73	40-130	
Fluorene	670	491	73	40-130	
Indeno[1,2,3-cd]pyrene	670	469	70	30-130	
1-Methylnaphthalene	670	512	76	31-130	
2-Methylnaphthalene	670	499	75	33-130	
Naphthalene	670	470	70	36-130	
Phenanthrene	670	461	69	42-130	
Pyrene	670	464	69	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.: 680-88632-2

SDG No.: 68088632-2

Matrix: Solid Level: Low Lab File ID: 1CD01014.D

Lab ID: LCS 660-135843/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	668	495	74	39-130	
Acenaphthylene	668	547	82	38-130	
Anthracene	668	519	78	37-130	
Benzo[a]anthracene	668	536	80	40-130	
Benzo[a]pyrene	668	483	72	49-130	
Benzo[b]fluoranthene	668	481	72	37-130	
Benzo[g,h,i]perylene	668	477	71	32-130	
Benzo[k]fluoranthene	668	573	86	32-130	
Chrysene	668	497	74	41-130	
Dibenz(a,h)anthracene	668	499	75	27-130	
Fluoranthene	668	548	82	40-130	
Fluorene	668	536	80	40-130	
Indeno[1,2,3-cd]pyrene	668	511	76	30-130	
1-Methylnaphthalene	668	593	89	31-130	
2-Methylnaphthalene	668	577	86	33-130	
Naphthalene	668	539	81	36-130	
Phenanthrene	668	518	78	42-130	
Pyrene	668	556	83	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.: 680-88632-2

SDG No.: 68088632-2

Matrix: Solid Level: Low Lab File ID: 1CD02027.D

Lab ID: LCS 660-135924/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	666	412	62	39-130	
Acenaphthylene	666	436	65	38-130	
Anthracene	666	447	67	37-130	
Benzo[a]anthracene	666	479	72	40-130	
Benzo[a]pyrene	666	454	68	49-130	
Benzo[b]fluoranthene	666	456	68	37-130	
Benzo[g,h,i]perylene	666	425	64	32-130	
Benzo[k]fluoranthene	666	469	70	32-130	
Chrysene	666	447	67	41-130	
Dibenz(a,h)anthracene	666	476	71	27-130	
Fluoranthene	666	483	72	40-130	
Fluorene	666	450	68	40-130	
Indeno[1,2,3-cd]pyrene	666	403	60	30-130	
1-Methylnaphthalene	666	509	76	31-130	
2-Methylnaphthalene	666	483	72	33-130	
Naphthalene	666	461	69	36-130	
Phenanthrene	666	439	66	42-130	
Pyrene	666	509	76	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.: 680-88632-2

SDG No.: 68088632-2

Matrix: Solid Level: Low Lab File ID: 1DC28014.D

Lab ID: 680-88592-A-21-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	856	500 U	465 J	54	39-130	
Acenaphthylene	856	200 U	493	58	38-130	
Anthracene	856	41 J	478	51	37-130	
Benzo[a]anthracene	856	150	561	48	40-130	
Benzo[a]pyrene	856	120	467	41	49-130	F
Benzo[b]fluoranthene	856	230	511	33	37-130	F
Benzo[g,h,i]perylene	856	130	485	41	32-130	
Benzo[k]fluoranthene	856	63	473	48	32-130	
Chrysene	856	200	484	33	41-130	F
Dibenz(a,h)anthracene	856	46 J	525	56	27-130	
Fluoranthene	856	160	509	41	40-130	
Fluorene	856	99 U	502	59	40-130	
Indeno[1,2,3-cd]pyrene	856	87 J	474	45	30-130	
1-Methylnaphthalene	856	250	535	33	31-130	
2-Methylnaphthalene	856	250	520	31	33-130	F
Naphthalene	856	190 J	507	37	36-130	
Phenanthrene	856	230	480	30	42-130	F
Pyrene	856	140	477	39	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Matrix: Solid Level: Low Lab File ID: 1CD01016.D

Lab ID: 680-88632-A-10-D MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	852	380 J	674	35	39-130	F
Acenaphthylene	852	330	736	48	38-130	
Anthracene	852	1200	936	-36	37-130	F
Benzo[a]anthracene	852	4800	2110	-316	40-130	4
Benzo[a]pyrene	852	4700	2020	-310	49-130	4
Benzo[b]fluoranthene	852	7400	2820	-543	37-130	4
Benzo[g,h,i]perylene	852	3400	1560	-217	32-130	F
Benzo[k]fluoranthene	852	2100	1490	-67	32-130	F
Chrysene	852	4700	2080	-304	41-130	4
Dibenz(a,h)anthracene	852	940	1030	10	27-130	F
Fluoranthene	852	9500	3460	-713	40-130	4
Fluorene	852	390	698	36	40-130	F
Indeno[1,2,3-cd]pyrene	852	2400	1420	-118	30-130	F
1-Methylnaphthalene	852	260	1050	93	31-130	
2-Methylnaphthalene	852	260	920	78	33-130	
Naphthalene	852	480	783	36	36-130	
Phenanthrene	852	4400	2180	-262	42-130	4
Pyrene	852	8000	3030	-586	44-130	4

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.: 680-88632-2

SDG No.: 68088632-2

Matrix: Solid Level: Low Lab File ID: 1CD02029.D

Lab ID: 680-88632-21 MS Client ID: CV0476A-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	817	120 U	449	55	39-130	
Acenaphthylene	817	20 J	445	52	38-130	
Anthracene	817	14	430	51	37-130	
Benzo[a]anthracene	817	94	578	59	40-130	
Benzo[a]pyrene	817	97	499	49	49-130	
Benzo[b]fluoranthene	817	200	613	51	37-130	
Benzo[g,h,i]perylene	817	91	463	46	32-130	
Benzo[k]fluoranthene	817	51	560	62	32-130	
Chrysene	817	140	553	51	41-130	
Dibenz(a,h)anthracene	817	32	479	55	27-130	
Fluoranthene	817	140	598	57	40-130	
Fluorene	817	9.4 J	502	60	40-130	
Indeno[1,2,3-cd]pyrene	817	74	413	42	30-130	
1-Methylnaphthalene	817	33 J	610	71	31-130	
2-Methylnaphthalene	817	51	567	63	33-130	
Naphthalene	817	79	572	60	36-130	
Phenanthrene	817	100	565	57	42-130	
Pyrene	817	110	597	60	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.: 680-88632-2

SDG No.: 68088632-2

Matrix: Solid Level: Low Lab File ID: 1DC28015.D

Lab ID: 680-88592-A-21-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	869	536	62	14	40	39-130	
Acenaphthylene	869	543	63	10	40	38-130	
Anthracene	869	550	59	14	40	37-130	
Benzo[a]anthracene	869	633	56	12	40	40-130	
Benzo[a]pyrene	869	535	48	13	40	49-130	F
Benzo[b]fluoranthene	869	591	42	15	40	37-130	
Benzo[g,h,i]perylene	869	564	50	15	40	32-130	
Benzo[k]fluoranthene	869	571	58	19	40	32-130	
Chrysene	869	558	41	14	40	41-130	
Dibenz(a,h)anthracene	869	604	64	14	40	27-130	
Fluoranthene	869	571	47	12	40	40-130	
Fluorene	869	559	64	11	40	40-130	
Indeno[1,2,3-cd]pyrene	869	527	51	11	40	30-130	
1-Methylnaphthalene	869	602	40	12	40	31-130	
2-Methylnaphthalene	869	580	37	11	40	33-130	
Naphthalene	869	552	42	9	40	36-130	
Phenanthrene	869	553	37	14	40	42-130	F
Pyrene	869	552	47	15	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.: 680-88632-2

SDG No.: 68088632-2

Matrix: Solid Level: Low Lab File ID: 1CD01017.D

Lab ID: 680-88632-A-10-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	853	695	37	3	40	39-130	F
Acenaphthylene	853	844	60	14	40	38-130	
Anthracene	853	1160	-10	21	40	37-130	F
Benzo[a]anthracene	853	4010	-93	62	40	40-130	4 F
Benzo[a]pyrene	853	3770	-104	61	40	49-130	4 F
Benzo[b]fluoranthene	853	5430	-236	63	40	37-130	4 F
Benzo[g,h,i]perylene	853	2480	-108	46	40	32-130	F
Benzo[k]fluoranthene	853	2920	101	65	40	32-130	F
Chrysene	853	4100	-66	65	40	41-130	4 F
Dibenz(a,h)anthracene	853	1210	32	17	40	27-130	
Fluoranthene	853	6580	-346	62	40	40-130	4 F
Fluorene	853	724	39	4	40	40-130	F
Indeno[1,2,3-cd]pyrene	853	2460	4	54	40	30-130	F
1-Methylnaphthalene	853	816	65	25	40	31-130	
2-Methylnaphthalene	853	621	43	39	40	33-130	
Naphthalene	853	681	24	14	40	36-130	F
Phenanthrene	853	3080	-156	34	40	42-130	4
Pyrene	853	6020	-235	66	40	44-130	4 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.: 680-88632-2

SDG No.: 68088632-2

Matrix: Solid Level: Low Lab File ID: 1CD02030.D

Lab ID: 680-88632-21 MSD Client ID: CV0476A-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	815	487	60	8	40	39-130	
Acenaphthylene	815	546	65	20	40	38-130	
Anthracene	815	560	67	26	40	37-130	
Benzo[a]anthracene	815	708	75	20	40	40-130	
Benzo[a]pyrene	815	651	68	26	40	49-130	
Benzo[b]fluoranthene	815	797	73	26	40	37-130	
Benzo[g,h,i]perylene	815	579	60	22	40	32-130	
Benzo[k]fluoranthene	815	696	79	22	40	32-130	
Chrysene	815	684	67	21	40	41-130	
Dibenz(a,h)anthracene	815	567	66	17	40	27-130	
Fluoranthene	815	765	77	24	40	40-130	
Fluorene	815	538	65	7	40	40-130	
Indeno[1,2,3-cd]pyrene	815	581	62	34	40	30-130	
1-Methylnaphthalene	815	644	75	6	40	31-130	
2-Methylnaphthalene	815	622	70	9	40	33-130	
Naphthalene	815	608	65	6	40	36-130	
Phenanthrene	815	684	71	19	40	42-130	
Pyrene	815	746	78	22	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Lab File ID: 1DC28011.D Lab Sample ID: MB 660-135822/1-A

Matrix: Solid Date Extracted: 03/27/2013 11:19

Instrument ID: BSMD5973 Date Analyzed: 03/28/2013 15:42

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135822/2-A	1DC28012.D	03/28/2013 16:05
	680-88592-A-21-B MS	1DC28014.D	03/28/2013 16:50
	680-88592-A-21-C MSD	1DC28015.D	03/28/2013 17:12
CV0476B-CS-SP	680-88632-22	1CC28039.D	03/28/2013 23:00
CV0566A-CS-SP	680-88632-23	1CC28040.D	03/28/2013 23:19
CV0566B-CS-SP	680-88632-24	1CC28041.D	03/28/2013 23:37

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Lab File ID: 1CD01013.D Lab Sample ID: MB 660-135843/1-A

Matrix: Solid Date Extracted: 03/27/2013 15:04

Instrument ID: BSMC5973 Date Analyzed: 04/01/2013 14:52

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135843/2-A	1CD01014.D	04/01/2013 15:10
	680-88632-A-10-D MS	1CD01016.D	04/01/2013 15:47
	680-88632-A-10-C MSD	1CD01017.D	04/01/2013 16:05
CV0663A-CS-SP	680-88632-25	1CD01018.D	04/01/2013 16:23
CV0663B-CS-SP	680-88632-26	1CD01019.D	04/01/2013 16:41
FM0017A-CS-SP	680-88632-27	1CD01020.D	04/01/2013 17:00
FM0017B-CS-SP	680-88632-28	1CD01021.D	04/01/2013 17:18
FM0017C-CS-SP	680-88632-29	1CD01022.D	04/01/2013 17:37
FM0017D-CS-SP	680-88632-30	1CD01023.D	04/01/2013 17:55
CV0197A-CS	680-88632-31	1CD01024.D	04/01/2013 18:13
CV0197B-CS	680-88632-32	1CD01025.D	04/01/2013 18:31
CV0197B-CSD	680-88632-33	1CD01026.D	04/01/2013 18:50
CV0197C-CS	680-88632-34	1CD01027.D	04/01/2013 19:08
CV0813A-CS	680-88632-35	1CD01028.D	04/01/2013 19:26
CV0813B-CS	680-88632-36	1CD01029.D	04/01/2013 19:44
FM0346A-CS	680-88632-37	1CD01030.D	04/01/2013 20:03
FM0346B-CS	680-88632-38	1CD01031.D	04/01/2013 20:21
HP0323A-CS	680-88632-39	1CD01032.D	04/01/2013 20:39
HP0323B-CS	680-88632-40	1CD01033.D	04/01/2013 20:58

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Lab File ID: 1CD02026.D Lab Sample ID: MB 660-135924/1-A

Matrix: Solid Date Extracted: 03/29/2013 10:19

Instrument ID: BSMC5973 Date Analyzed: 04/02/2013 20:01

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135924/2-A	1CD02027.D	04/02/2013 20:19
CV0476A-CS-SP	680-88632-21	1CD02028.D	04/02/2013 20:37
CV0476A-CS-SP MS	680-88632-21 MS	1CD02029.D	04/02/2013 20:56
CV0476A-CS-SP MSD	680-88632-21 MSD	1CD02030.D	04/02/2013 21:14

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Lab File ID: 1CB22002.D DFTPP Injection Date: 02/22/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:41

Analysis Batch No.: 134776

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	42.3	
68	Less than 2.0 % of mass 69	0.6	(1.1)1
69	Mass 69 relative abundance	59.2	
70	Less than 2.0 % of mass 69	0.3	(0.4)1
127	10.0 - 80.0 % of mass 198	53.6	
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	8.6	
275	10.0 - 60.0 % of mass 198	19.2	
365	Greater than 1.0 % of mass 198	2.0	
441	Present but less than mass 443	7.5	
442	Greater than 50.0 % of mass 198	52.1	
443	15.0 - 24.0 % of mass 442	8.7	(16.7)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-134776/3	1CB22003.D	02/22/2013	11:57
	IC 660-134776/4	1CB22004.D	02/22/2013	12:16
	IC 660-134776/5	1CB22005.D	02/22/2013	12:34
	IC 660-134776/6	1CB22006.D	02/22/2013	12:53
	ICIS 660-134776/7	1CB22007.D	02/22/2013	13:11
	IC 660-134776/8	1CB22008.D	02/22/2013	13:29
	IC 660-134776/9	1CB22009.D	02/22/2013	13:48
	ICV 660-134776/10	1CB22010.D	02/22/2013	14:06

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Lab File ID: 1CC28002.D DFTPP Injection Date: 03/28/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:42

Analysis Batch No.: 135902

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	33.0	
68	Less than 2.0 % of mass 69	0.6	(1.4)1
69	Mass 69 relative abundance	43.3	
70	Less than 2.0 % of mass 69	0.3	(0.8)1
127	10.0 - 80.0 % of mass 198	48.0	
197	Less than 2.0 % of mass 198	0.9	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.1	
275	10.0 - 60.0 % of mass 198	23.6	
365	Greater than 1.0 % of mass 198	4.4	
441	Present but less than mass 443	13.2	
442	Greater than 50.0 % of mass 198	91.4	
443	15.0 - 24.0 % of mass 442	20.8	(22.7)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135902/3	1CC28003.D	03/28/2013	11:59
CV0476B-CS-SP	680-88632-22	1CC28039.D	03/28/2013	23:00
CV0566A-CS-SP	680-88632-23	1CC28040.D	03/28/2013	23:19
CV0566B-CS-SP	680-88632-24	1CC28041.D	03/28/2013	23:37

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Lab File ID: 1CD01002.D DFTPP Injection Date: 04/01/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:14

Analysis Batch No.: 135996

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	31.6
68	Less than 2.0 % of mass 69	0.7 (1.6)1
69	Mass 69 relative abundance	43.8
70	Less than 2.0 % of mass 69	0.2 (0.4)1
127	10.0 - 80.0 % of mass 198	45.9
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.5
275	10.0 - 60.0 % of mass 198	24.8
365	Greater than 1.0 % of mass 198	3.9
441	Present but less than mass 443	14.9
442	Greater than 50.0 % of mass 198	94.0
443	15.0 - 24.0 % of mass 442	18.4 (19.6)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135996/3	1CD01003.D	04/01/2013	11:31
	MB 660-135843/1-A	1CD01013.D	04/01/2013	14:52
	LCS 660-135843/2-A	1CD01014.D	04/01/2013	15:10
	680-88632-A-10-D MS	1CD01016.D	04/01/2013	15:47
	680-88632-A-10-C MSD	1CD01017.D	04/01/2013	16:05
CV0663A-CS-SP	680-88632-25	1CD01018.D	04/01/2013	16:23
CV0663B-CS-SP	680-88632-26	1CD01019.D	04/01/2013	16:41
FM0017A-CS-SP	680-88632-27	1CD01020.D	04/01/2013	17:00
FM0017B-CS-SP	680-88632-28	1CD01021.D	04/01/2013	17:18
FM0017C-CS-SP	680-88632-29	1CD01022.D	04/01/2013	17:37
FM0017D-CS-SP	680-88632-30	1CD01023.D	04/01/2013	17:55
CV0197A-CS	680-88632-31	1CD01024.D	04/01/2013	18:13
CV0197B-CS	680-88632-32	1CD01025.D	04/01/2013	18:31
CV0197B-CSD	680-88632-33	1CD01026.D	04/01/2013	18:50
CV0197C-CS	680-88632-34	1CD01027.D	04/01/2013	19:08
CV0813A-CS	680-88632-35	1CD01028.D	04/01/2013	19:26
CV0813B-CS	680-88632-36	1CD01029.D	04/01/2013	19:44
FM0346A-CS	680-88632-37	1CD01030.D	04/01/2013	20:03
FM0346B-CS	680-88632-38	1CD01031.D	04/01/2013	20:21
HP0323A-CS	680-88632-39	1CD01032.D	04/01/2013	20:39
HP0323B-CS	680-88632-40	1CD01033.D	04/01/2013	20:58

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

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.: 680-88632-2

SDG No.: 68088632-2

Lab File ID: 1CD02014.D DFTPP Injection Date: 04/02/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 16:23

Analysis Batch No.: 136079

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	32.4	
68	Less than 2.0 % of mass 69	0.3	(0.6)1
69	Mass 69 relative abundance	47.7	
70	Less than 2.0 % of mass 69	0.3	(0.7)1
127	10.0 - 80.0 % of mass 198	49.3	
197	Less than 2.0 % of mass 198	0.9	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.6	
275	10.0 - 60.0 % of mass 198	24.0	
365	Greater than 1.0 % of mass 198	3.6	
441	Present but less than mass 443	10.2	
442	Greater than 50.0 % of mass 198	86.9	
443	15.0 - 24.0 % of mass 442	19.1	(22.0)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136079/3	1CD02015.D	04/02/2013	16:40
	MB 660-135924/1-A	1CD02026.D	04/02/2013	20:01
	LCS 660-135924/2-A	1CD02027.D	04/02/2013	20:19
CV0476A-CS-SP	680-88632-21	1CD02028.D	04/02/2013	20:37
CV0476A-CS-SP MS	680-88632-21 MS	1CD02029.D	04/02/2013	20:56
CV0476A-CS-SP MSD	680-88632-21 MSD	1CD02030.D	04/02/2013	21:14

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Lab File ID: 1DB22002.D DFTPP Injection Date: 02/22/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 11:57

Analysis Batch No.: 134781

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	46.9	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	46.6	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	50.9	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.9	
275	10.0 - 60.0 % of mass 198	25.1	
365	Greater than 1.0 % of mass 198	2.9	
441	Present but less than mass 443	10.4	
442	Greater than 50.0 % of mass 198	64.5	
443	15.0 - 24.0 % of mass 442	13.2	(20.5)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-134781/3	1DB22003.D	02/22/2013	12:13
	IC 660-134781/4	1DB22004.D	02/22/2013	12:35
	IC 660-134781/5	1DB22005.D	02/22/2013	12:58
	IC 660-134781/6	1DB22006.D	02/22/2013	13:21
	ICIS 660-134781/7	1DB22007.D	02/22/2013	13:43
	IC 660-134781/8	1DB22008.D	02/22/2013	14:06
	IC 660-134781/9	1DB22009.D	02/22/2013	14:28
	ICV 660-134781/10	1DB22010.D	02/22/2013	14:51

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Lab File ID: 1DC28002.D DFTPP Injection Date: 03/28/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 12:00

Analysis Batch No.: 136038

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	0.0	(0.0)1
69	Mass 69 relative abundance	41.3	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	45.6	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.5	
275	10.0 - 60.0 % of mass 198	29.4	
365	Greater than 1.0 % of mass 198	3.7	
441	Present but less than mass 443	8.0	
442	Greater than 50.0 % of mass 198	97.0	
443	15.0 - 24.0 % of mass 442	19.5	(20.1)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 660-136038/9	1DC28009.D	03/28/2013	14:57
	MB 660-135822/1-A	1DC28011.D	03/28/2013	15:42
	LCS 660-135822/2-A	1DC28012.D	03/28/2013	16:05
	680-88592-A-21-B MS	1DC28014.D	03/28/2013	16:50
	680-88592-A-21-C MSD	1DC28015.D	03/28/2013	17:12

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11

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

Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N

Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1215005	3.80	932815	4.89	1859738	5.85
UPPER LIMIT		2430010	4.30	1865630	5.39	3719476	6.35
LOWER LIMIT		607503	3.30	466408	4.39	929869	5.35
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134776/10		1383069	3.80	1075067	4.89	2141313	5.85

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.: 680-88632-2

SDG No.: 68088632-2

Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11

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

Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N

Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2424157	7.80	2664188	9.02		
UPPER LIMIT		4848314	8.30	5328376	9.52		
LOWER LIMIT		1212079	7.30	1332094	8.52		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134776/10		2766374	7.80	3034368	9.02		

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.: 680-88632-2

SDG No.: 68088632-2

Sample No.: CCVIS 660-135902/3 Date Analyzed: 03/28/2013 11:59

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

Lab File ID (Standard): 1CC28003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		797659	3.72	631634	4.81	1190245	5.76
UPPER LIMIT		1595318	4.22	1263268	5.31	2380490	6.26
LOWER LIMIT		398830	3.22	315817	4.31	595123	5.26
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88632-22	CV0476B-CS-SP	975209	3.72	744979	4.81	1373836	5.76
680-88632-23	CV0566A-CS-SP	962368	3.72	776323	4.81	1366864	5.76
680-88632-24	CV0566B-CS-SP	976260	3.72	752931	4.81	1363480	5.76

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.: 680-88632-2

SDG No.: 68088632-2

Sample No.: CCVIS 660-135902/3 Date Analyzed: 03/28/2013 11:59

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

Lab File ID (Standard): 1CC28003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1432718	7.70	1426297	8.89		
UPPER LIMIT		2865436	8.20	2852594	9.39		
LOWER LIMIT		716359	7.20	713149	8.39		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88632-22	CV0476B-CS-SP	1469451	7.70	1339187	8.89		
680-88632-23	CV0566A-CS-SP	1509876	7.70	1392754	8.89		
680-88632-24	CV0566B-CS-SP	2146717	7.70	1305473	8.89		

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.: 680-88632-2

SDG No.: 68088632-2

Sample No.: CCVIS 660-135996/3 Date Analyzed: 04/01/2013 11:31

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

Lab File ID (Standard): 1CD01003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		761650	3.72	604806	4.80	1101759	5.76
UPPER LIMIT		1523300	4.22	1209612	5.30	2203518	6.26
LOWER LIMIT		380825	3.22	302403	4.30	550880	5.26
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135843/1-A		615973	3.72	487906	4.80	918261	5.75
LCS 660-135843/2-A		624323	3.72	524237	4.80	955931	5.75
680-88632-A-10-D MS		655029	3.72	516035	4.80	936821	5.75
680-88632-A-10-C MSD		691250	3.72	560459	4.80	1008510	5.75
680-88632-25	CV0663A-CS-SP	709079	3.72	560673	4.80	1023931	5.75
680-88632-26	CV0663B-CS-SP	674681	3.72	524033	4.80	947951	5.75
680-88632-27	FM0017A-CS-SP	679768	3.72	523567	4.80	938977	5.75
680-88632-28	FM0017B-CS-SP	653619	3.72	508733	4.80	937932	5.75
680-88632-29	FM0017C-CS-SP	693650	3.72	541318	4.80	978877	5.75
680-88632-30	FM0017D-CS-SP	633164	3.72	501063	4.80	869930	5.75
680-88632-31	CV0197A-CS	652339	3.72	502117	4.80	928229	5.75
680-88632-32	CV0197B-CS	748292	3.72	588855	4.80	1088202	5.75
680-88632-33	CV0197B-CSD	723819	3.72	572736	4.80	995357	5.75
680-88632-34	CV0197C-CS	726624	3.72	572783	4.80	1031946	5.75
680-88632-35	CV0813A-CS	642450	3.72	508385	4.80	909045	5.75
680-88632-36	CV0813B-CS	739349	3.72	592733	4.80	1033940	5.75
680-88632-37	FM0346A-CS	730784	3.72	573288	4.80	1036175	5.75
680-88632-38	FM0346B-CS	724708	3.72	567902	4.80	1007247	5.75
680-88632-39	HP0323A-CS	800398	3.72	603115	4.80	1079437	5.75
680-88632-40	HP0323B-CS	661536	3.72	534796	4.80	960740	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.: 680-88632-2

SDG No.: 68088632-2

Sample No.: CCVIS 660-135996/3 Date Analyzed: 04/01/2013 11:31

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

Lab File ID (Standard): 1CD01003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1332309	7.70	1345071	8.89		
UPPER LIMIT		2664618	8.20	2690142	9.39		
LOWER LIMIT		666155	7.20	672536	8.39		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135843/1-A		1067842	7.69	1091075	8.87		
LCS 660-135843/2-A		1186437	7.69	1208573	8.87		
680-88632-A-10-D MS		1084495	7.69	1027644	8.87		
680-88632-A-10-C MSD		1100421	7.69	1067194	8.87		
680-88632-25	CV0663A-CS-SP	1076517	7.69	1054508	8.87		
680-88632-26	CV0663B-CS-SP	1027608	7.69	1009665	8.87		
680-88632-27	FM0017A-CS-SP	1070191	7.69	1028835	8.87		
680-88632-28	FM0017B-CS-SP	1012717	7.69	1013888	8.87		
680-88632-29	FM0017C-CS-SP	1399479	7.69	1026137	8.87		
680-88632-30	FM0017D-CS-SP	985527	7.69	971146	8.87		
680-88632-31	CV0197A-CS	1015780	7.69	987597	8.87		
680-88632-32	CV0197B-CS	1204460	7.69	1162440	8.87		
680-88632-33	CV0197B-CSD	1112240	7.69	1078201	8.87		
680-88632-34	CV0197C-CS	1134238	7.70	1112071	8.88		
680-88632-35	CV0813A-CS	968691	7.69	969600	8.87		
680-88632-36	CV0813B-CS	1146456	7.69	1063392	8.87		
680-88632-37	FM0346A-CS	1087916	7.69	1027963	8.87		
680-88632-38	FM0346B-CS	1057849	7.69	1022368	8.87		
680-88632-39	HP0323A-CS	1234420	7.69	1104964	8.87		
680-88632-40	HP0323B-CS	1053912	7.69	991607	8.87		

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.: 680-88632-2

SDG No.: 68088632-2

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.: 680-88632-2

SDG No.: 68088632-2

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.: 680-88632-2

SDG No.: 68088632-2

Sample No.: CCVIS 660-136079/3 Date Analyzed: 04/02/2013 16:40

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

Lab File ID (Standard): 1CD02015.D Heated Purge: (Y/N) N

Calibration ID: 2859

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		497056	3.71	363517	4.80	670971	5.75
UPPER LIMIT		994112	4.21	727034	5.30	1341942	6.25
LOWER LIMIT		248528	3.21	181759	4.30	335486	5.25
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135924/1-A		569471	3.71	504679	4.80	959879	5.75
LCS 660-135924/2-A		536976	3.71	477938	4.80	982106	5.75
680-88632-21	CV0476A-CS-SP	613654	3.71	524361	4.80	1080146	5.75
680-88632-21 MS	CV0476A-CS-SP MS	583262	3.71	519154	4.80	1060524	5.75
680-88632-21 MSD	CV0476A-CS-SP MSD	597406	3.71	494548	4.80	988760	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.: 680-88632-2

SDG No.: 68088632-2

Sample No.: CCVIS 660-136079/3 Date Analyzed: 04/02/2013 16:40

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

Lab File ID (Standard): 1CD02015.D Heated Purge: (Y/N) N

Calibration ID: 2859

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		842326	7.69	926334	8.86		
UPPER LIMIT		1684652	8.19	1852668	9.36		
LOWER LIMIT		421163	7.19	463167	8.36		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135924/1-A		1168702	7.69	1102080	8.86		
LCS 660-135924/2-A		1206373	7.69	1158196	8.86		
680-88632-21	CV0476A-CS-SP	1216896	7.69	1187967	8.86		
680-88632-21 MS	CV0476A-CS-SP MS	1203389	7.69	1130015	8.86		
680-88632-21 MSD	CV0476A-CS-SP MSD	1197197	7.69	1105114	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.: 680-88632-2

SDG No.: 68088632-2

Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43

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

Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N

Calibration ID: 2761

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2851402	6.18	1685266	7.86	2758746	9.12
UPPER LIMIT		5702804	6.68	3370532	8.36	5517492	9.62
LOWER LIMIT		1425701	5.68	842633	7.36	1379373	8.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134781/10		3227519	6.19	1973397	7.86	3226971	9.12

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43

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

Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N

Calibration ID: 2761

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2741766	11.46	2903096	13.33		
UPPER LIMIT		5483532	11.96	5806192	13.83		
LOWER LIMIT		1370883	10.96	1451548	12.83		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134781/10		3262056	11.46	3389756	13.34		

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.: 680-88632-2

SDG No.: 68088632-2

Sample No.: CCVIS 660-136038/9 Date Analyzed: 03/28/2013 14:57

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

Lab File ID (Standard): 1DC28009.D Heated Purge: (Y/N) N

Calibration ID: 2761

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3447549	6.10	2210474	7.78	3698385	9.04
UPPER LIMIT		6895098	6.60	4420948	8.28	7396770	9.54
LOWER LIMIT		1723775	5.60	1105237	7.28	1849193	8.54
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135822/1-A		3397993	6.10	2207708	7.78	3627662	9.04
LCS 660-135822/2-A		3559975	6.10	2302268	7.78	3843730	9.04
680-88592-A-21-B MS		3558914	6.10	2282337	7.78	3768115	9.04
680-88592-A-21-C MSD		3608549	6.10	2329630	7.78	3894748	9.04

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.: 680-88632-2

SDG No.: 68088632-2

Sample No.: CCVIS 660-136038/9 Date Analyzed: 03/28/2013 14:57

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

Lab File ID (Standard): 1DC28009.D Heated Purge: (Y/N) N

Calibration ID: 2761

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3890381	11.37	4013621	13.22		
UPPER LIMIT		7780762	11.87	8027242	13.72		
LOWER LIMIT		1945191	10.87	2006811	12.72		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135822/1-A		3652900	11.37	3883149	13.22		
LCS 660-135822/2-A		3972248	11.37	4089168	13.22		
680-88592-A-21-B MS		3819813	11.37	3970099	13.22		
680-88592-A-21-C MSD		3914233	11.37	4038676	13.22		

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.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: CV0476A-CS-SP | Lab Sample ID: 680-88632-21

Matrix: Solid | Lab File ID: 1CD02028.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 15:35

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 15.47(g) | Date Analyzed: 04/02/2013 20:37

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

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

% Moisture: 18.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136079 | 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	5.9
120-12-7	Anthracene	14		10	5.0
56-55-3	Benzo[a]anthracene	94		9.5	4.6
50-32-8	Benzo[a]pyrene	97		12	6.2
205-99-2	Benzo[b]fluoranthene	200		15	7.3
191-24-2	Benzo[g,h,i]perylene	91		24	5.2
207-08-9	Benzo[k]fluoranthene	51		9.5	4.3
218-01-9	Chrysene	140		11	5.3
53-70-3	Dibenz(a,h)anthracene	32		24	4.9
206-44-0	Fluoranthene	140		24	4.8
86-73-7	Fluorene	9.4	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	74		24	8.4
90-12-0	1-Methylnaphthalene	33	J	48	5.2
91-57-6	2-Methylnaphthalene	51		48	8.4
91-20-3	Naphthalene	79		48	5.2
85-01-8	Phenanthrene	100		9.5	4.6
129-00-0	Pyrene	110		24	4.4

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02028.D
Lab Smp Id: 680-88632-A-21-A Client Smp ID: CV0476A-CS-SP
Inj Date : 02-APR-2013 20:37
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-21-a
Misc Info : 680-88632-A-21-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 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	15.470	Weight Extracted
M	18.443	% 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	3.710	3.710	(1.000)	613654	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	524361	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	1080146	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	84183	5.50021	435.9388
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1216896	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	1187967	40.0000	
2 Naphthalene	128	3.727	3.721	(1.005)	15637	0.99210	78.6321
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	6896	0.64273	50.9422
4 1-Methylnaphthalene	142	4.215	4.216	(1.136)	4003	0.41464	32.8638
5 Acenaphthylene	152	4.710	4.710	(0.982)	5402	0.24892	19.7288
9 Fluorene	166	5.139	5.139	(1.071)	2132	0.11898	9.4302
11 Phenanthrene	178	5.762	5.763	(1.003)	40688	1.29337	102.5108
12 Anthracene	178	5.798	5.798	(1.009)	5628	0.17648	13.9876
13 Carbazole	167	5.904	5.904	(1.028)	4619	0.16906	13.3994(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.598	6.598	(1.148)	59279	1.70625	135.2346
16 Pyrene	202	6.762	6.762	(0.880)	46902	1.39138	110.2789
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	37100	1.18783	94.1455
19 Chrysene	228	7.703	7.704	(1.002)	61307	1.76798	140.1279
20 Benzo(b)fluoranthene	252	8.515	8.521	(0.961)	84442	2.51429	199.2790(M)
21 Benzo(k)fluoranthene	252	8.533	8.545	(0.963)	20935	0.64450	51.0821(QMH)
22 Benzo(a)pyrene	252	8.803	8.809	(0.993)	38564	1.21963	96.6664
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.015	(1.129)	27957	0.93090	73.7814(M)
25 Dibenzo(a,h)anthracene	278	10.015	10.027	(1.130)	11118	0.40075	31.7630
26 Benzo(g,h,i)perylene	276	10.350	10.356	(1.168)	35075	1.14431	90.6965

QC Flag Legend

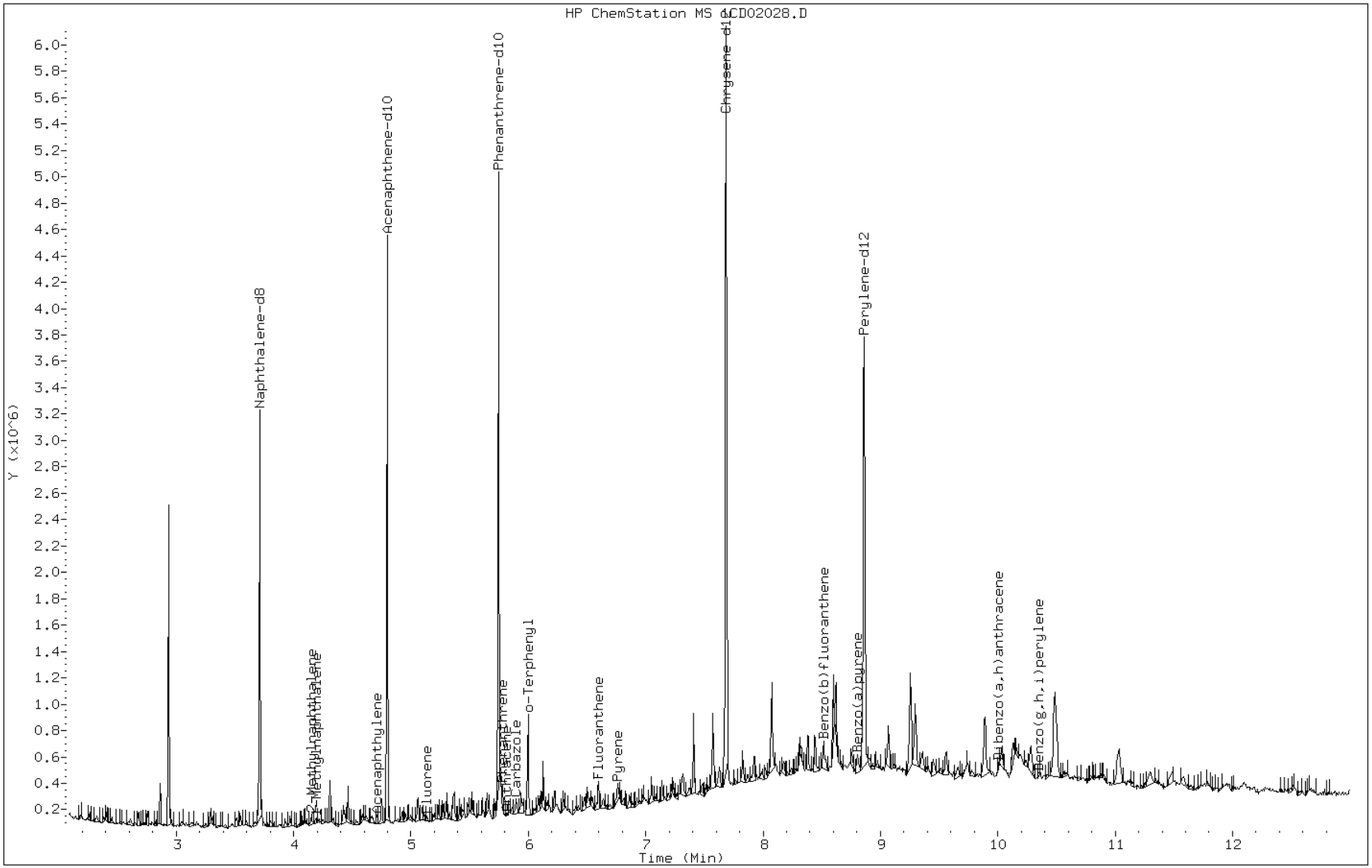
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC



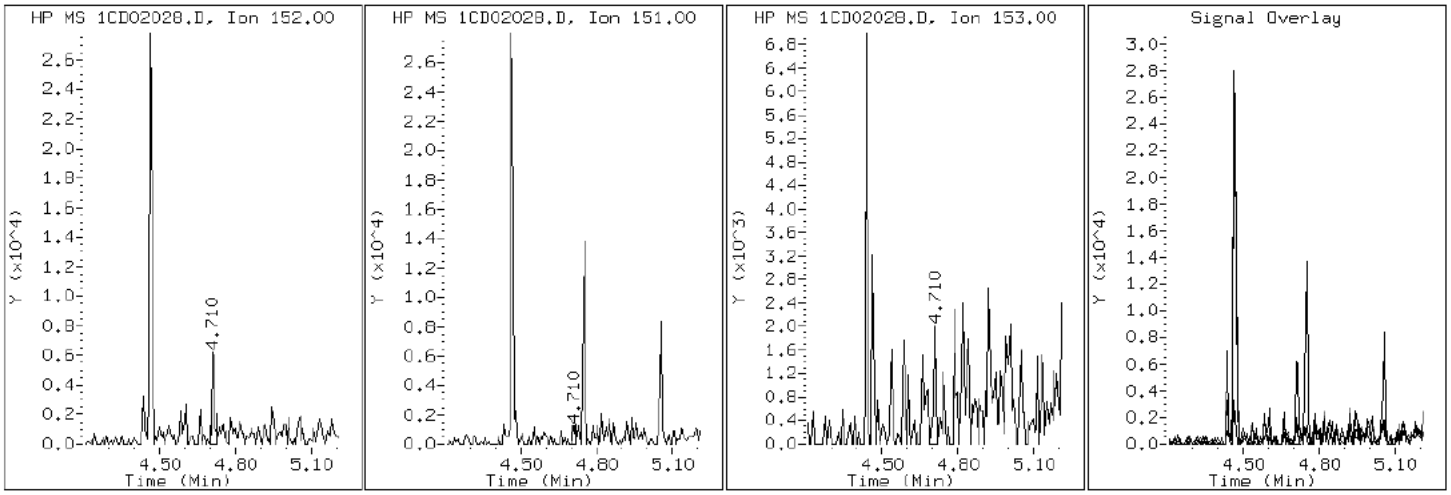
Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC

5 Acenaphthylene



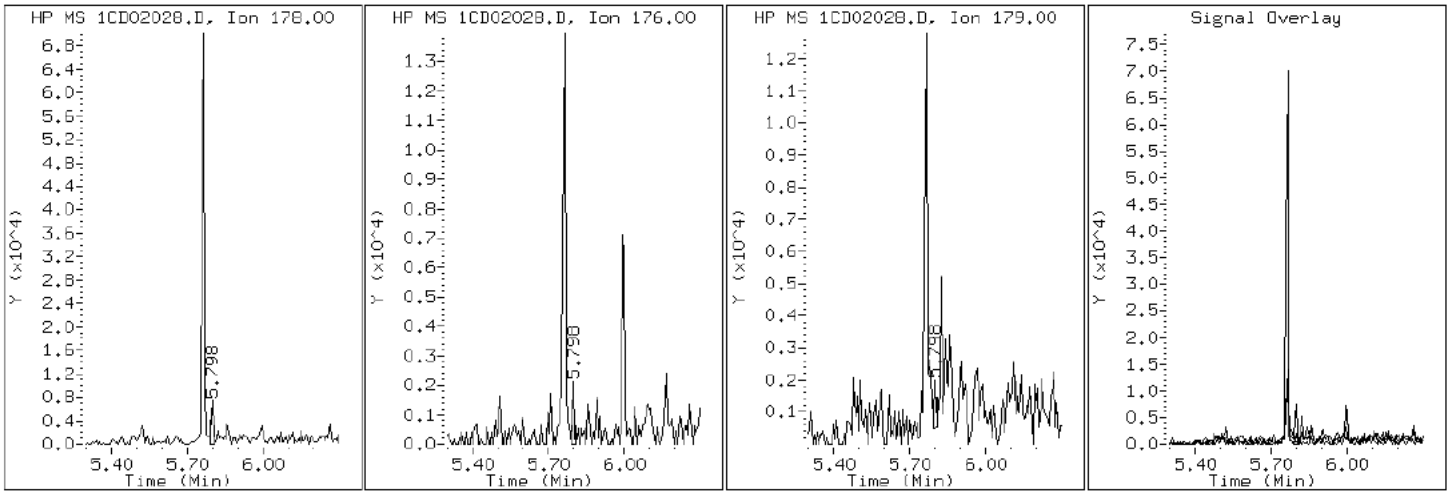
Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC

12 Anthracene



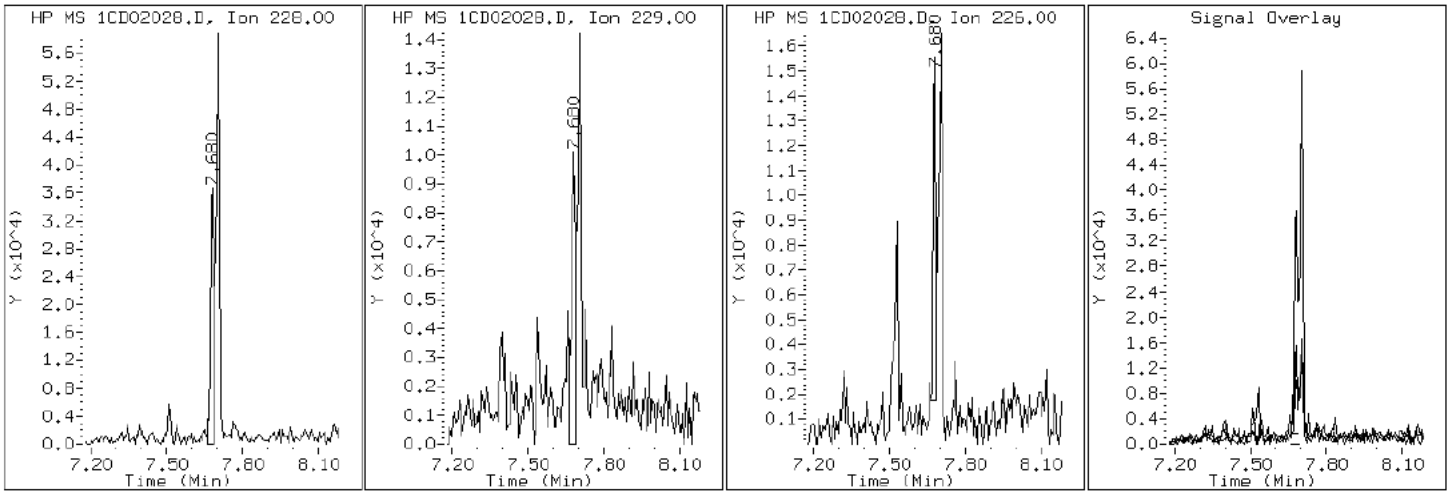
Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC

17 Benzo(a)anthracene



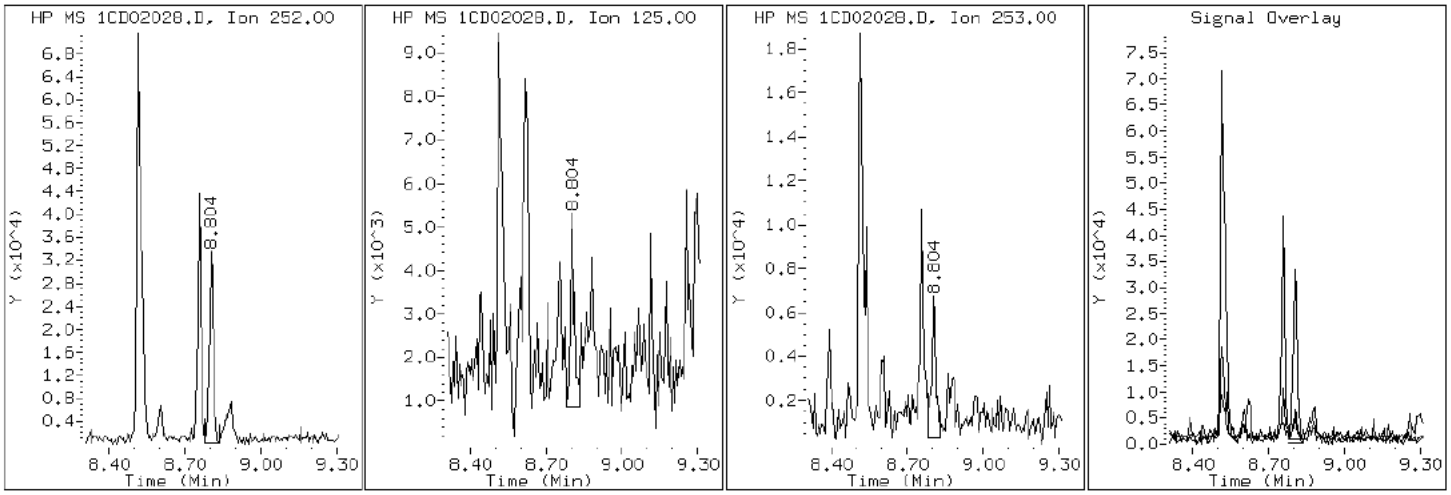
Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC

22 Benzo(a)pyrene



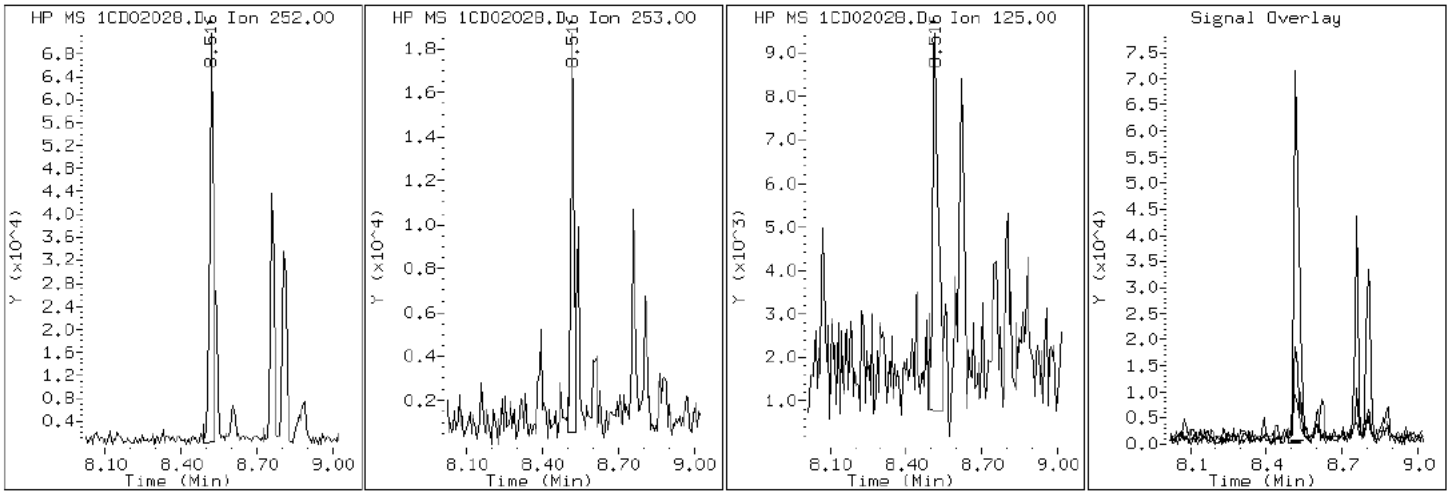
Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC

20 Benzo(b)fluoranthene



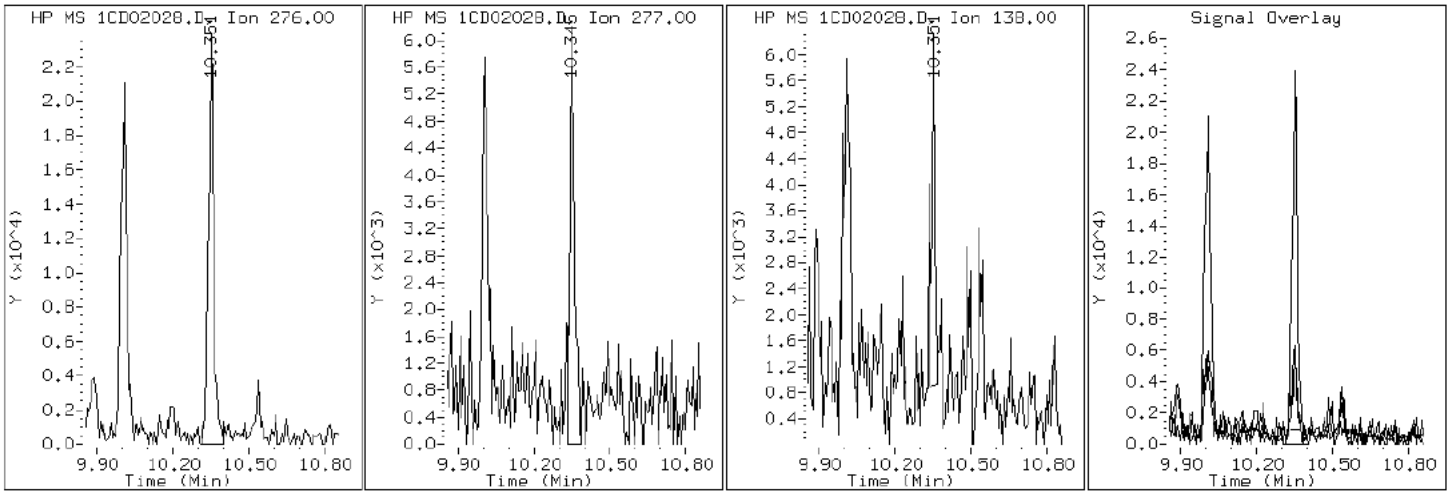
Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC

26 Benzo(g,h,i)perylene



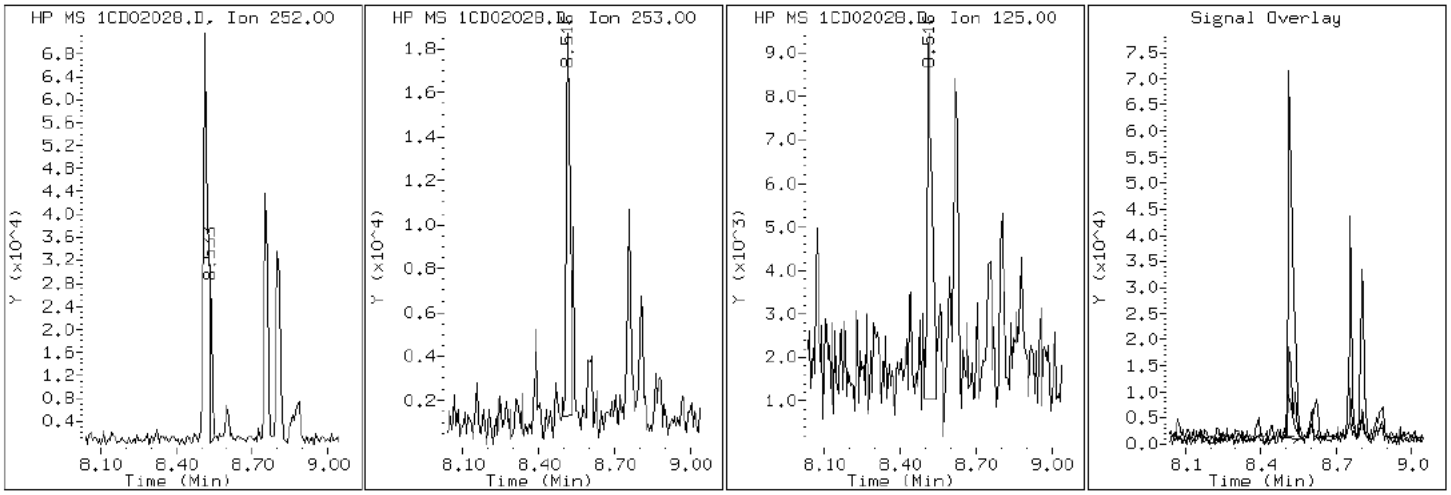
Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC

21 Benzo(k)fluoranthene



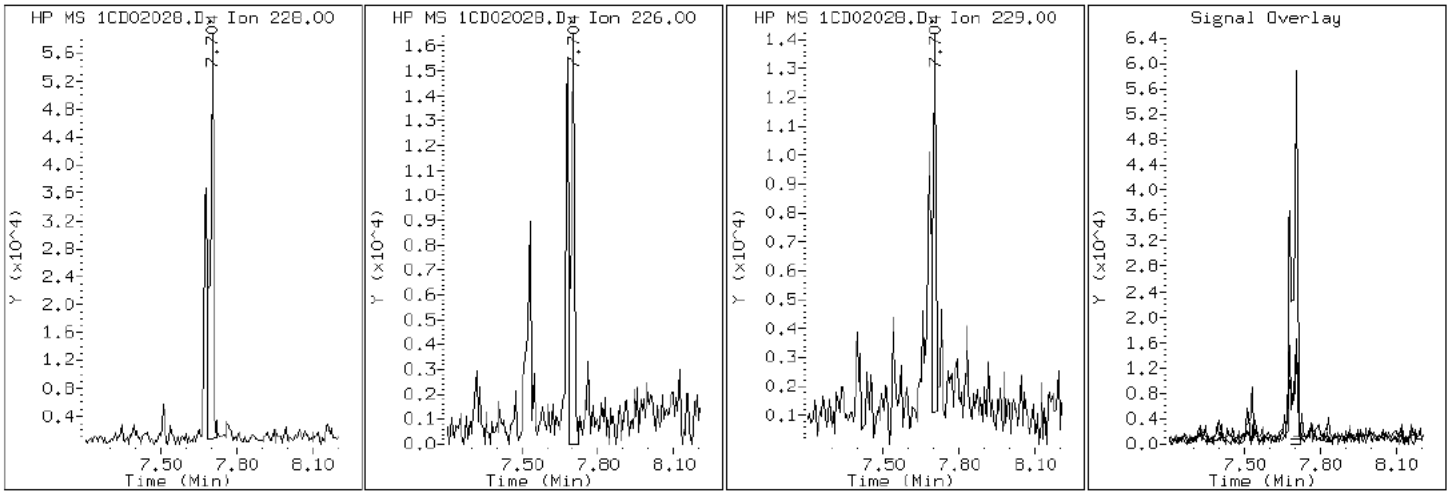
Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC

19 Chrysene



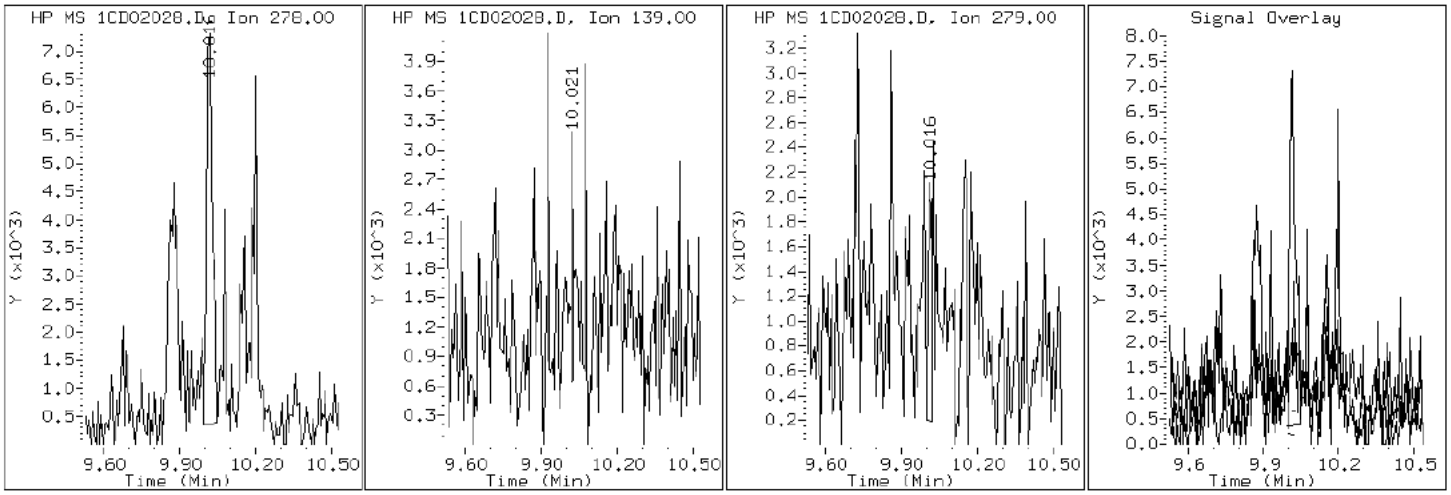
Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC

25 Dibenzo(a,h)anthracene



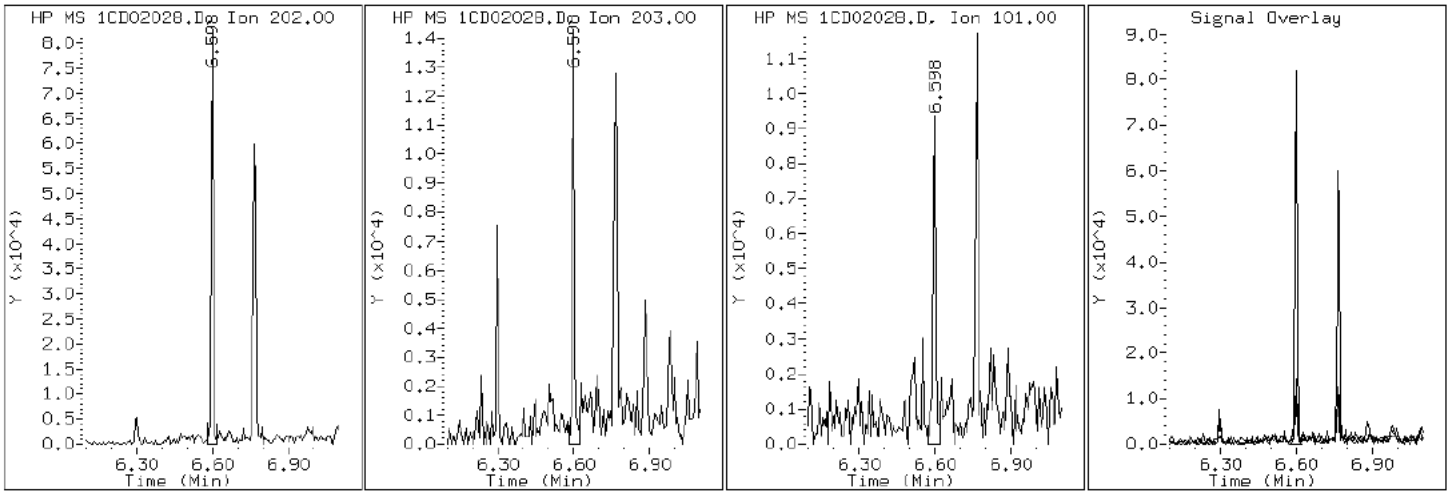
Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC

15 Fluoranthene



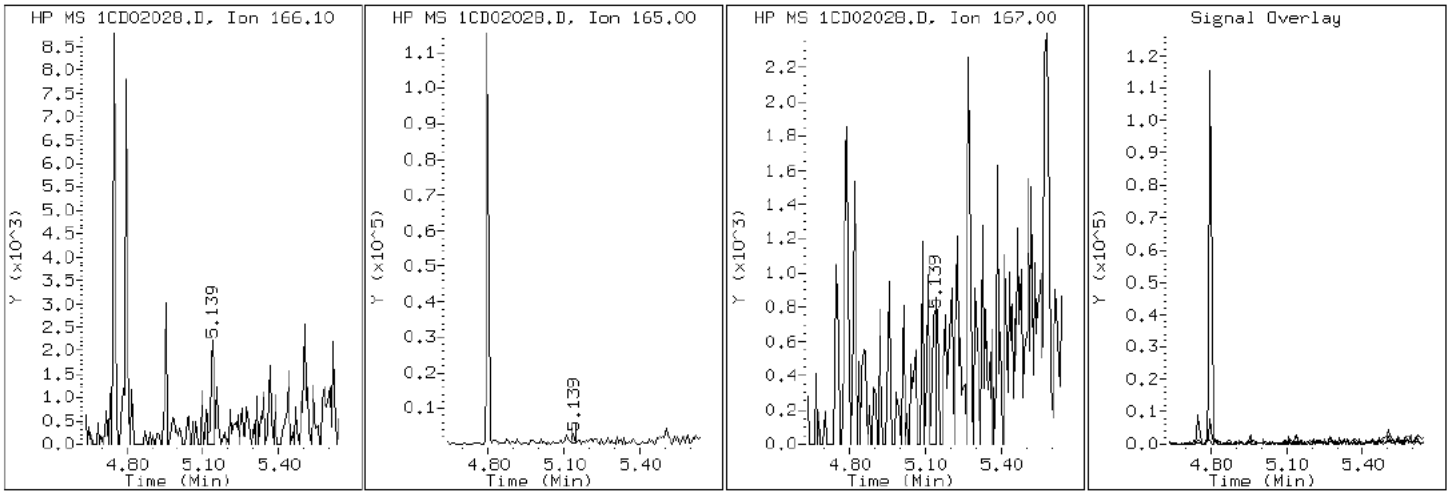
Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC

9 Fluorene



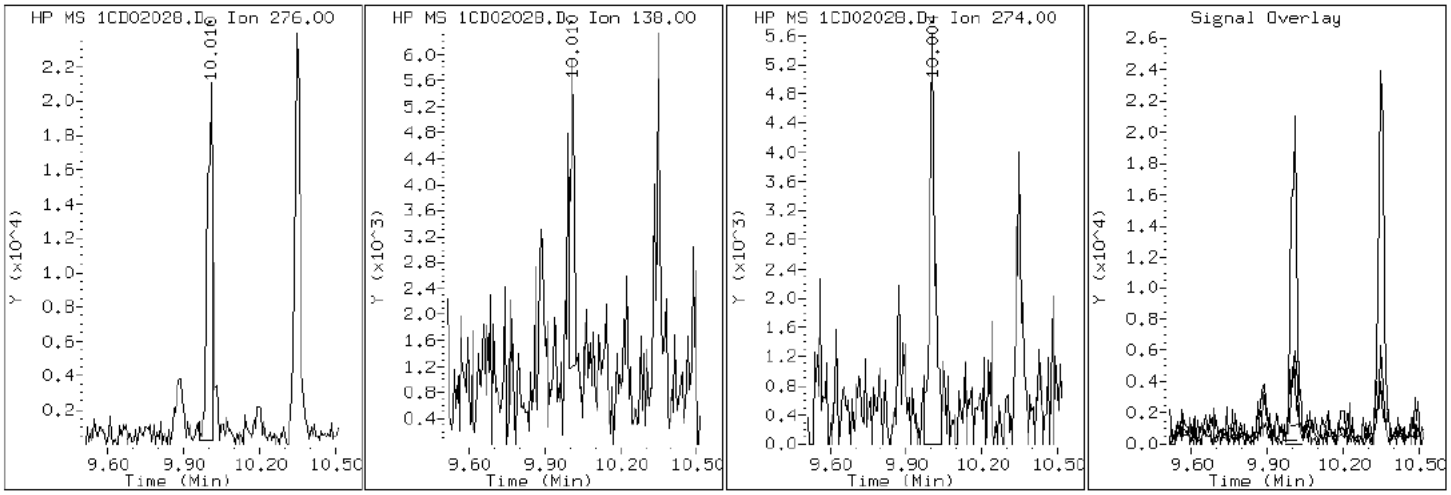
Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC

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



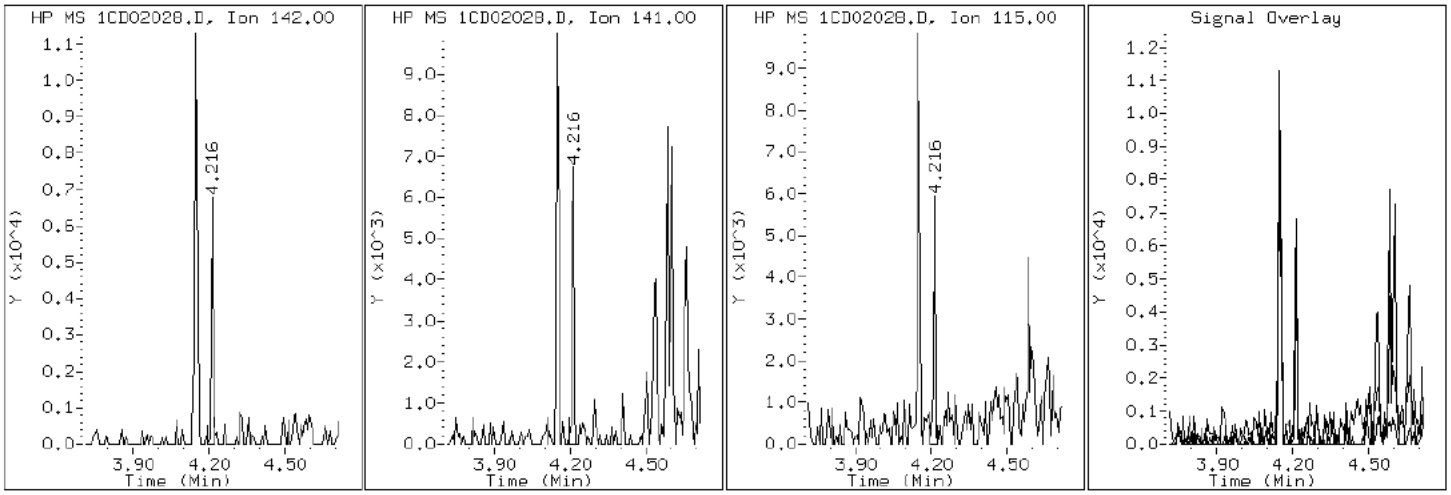
Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC

4 1-Methylnaphthalene



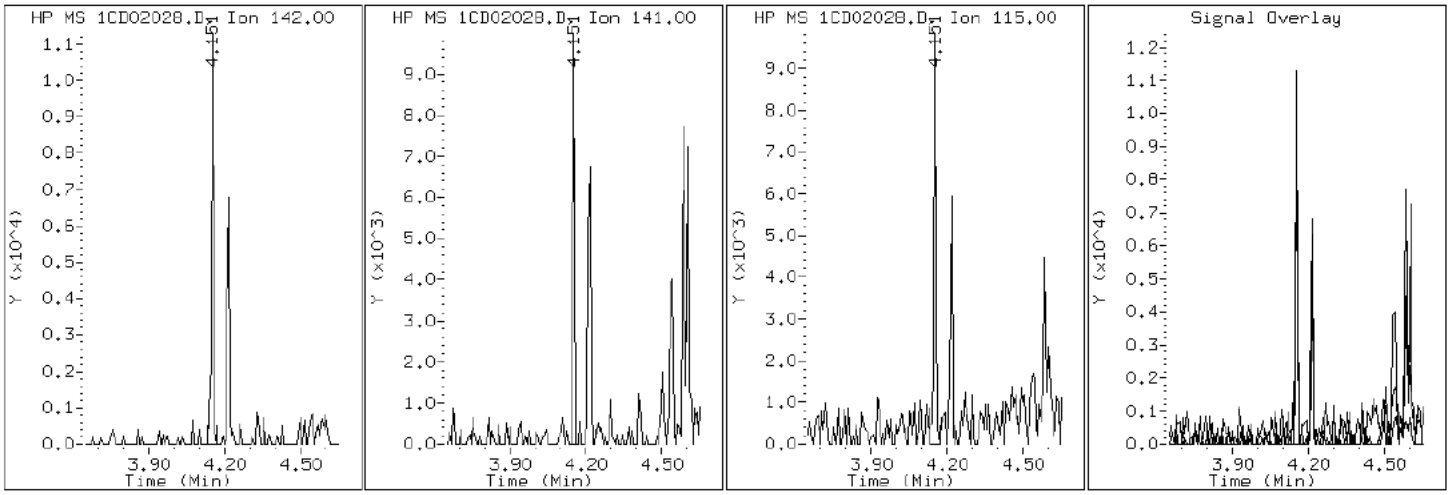
Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC

3 2-Methylnaphthalene



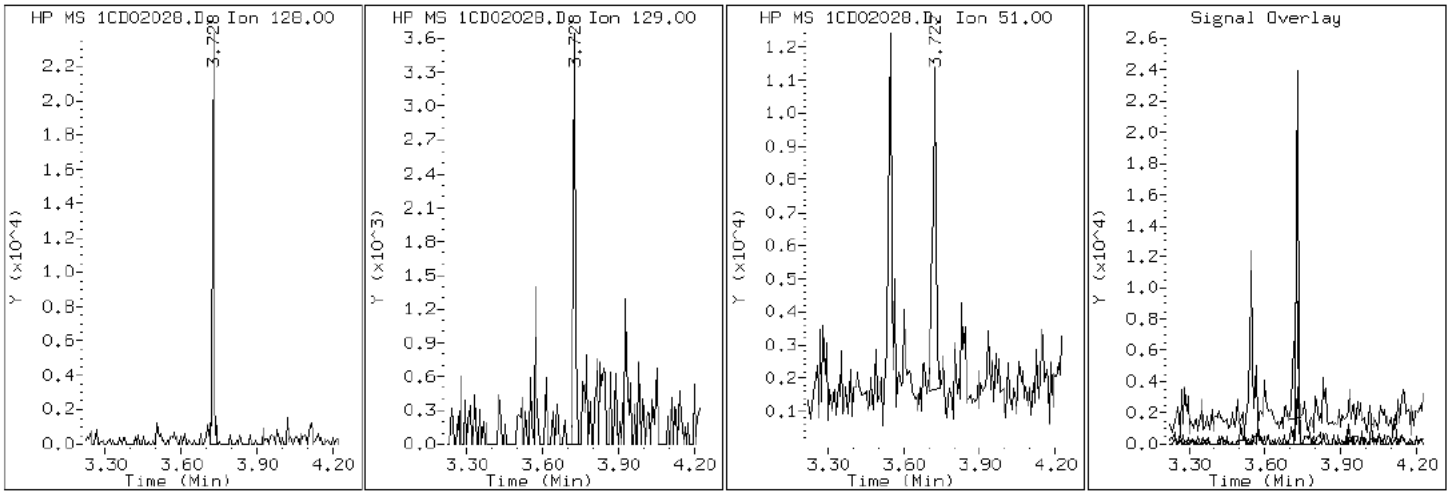
Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC

2 Naphthalene



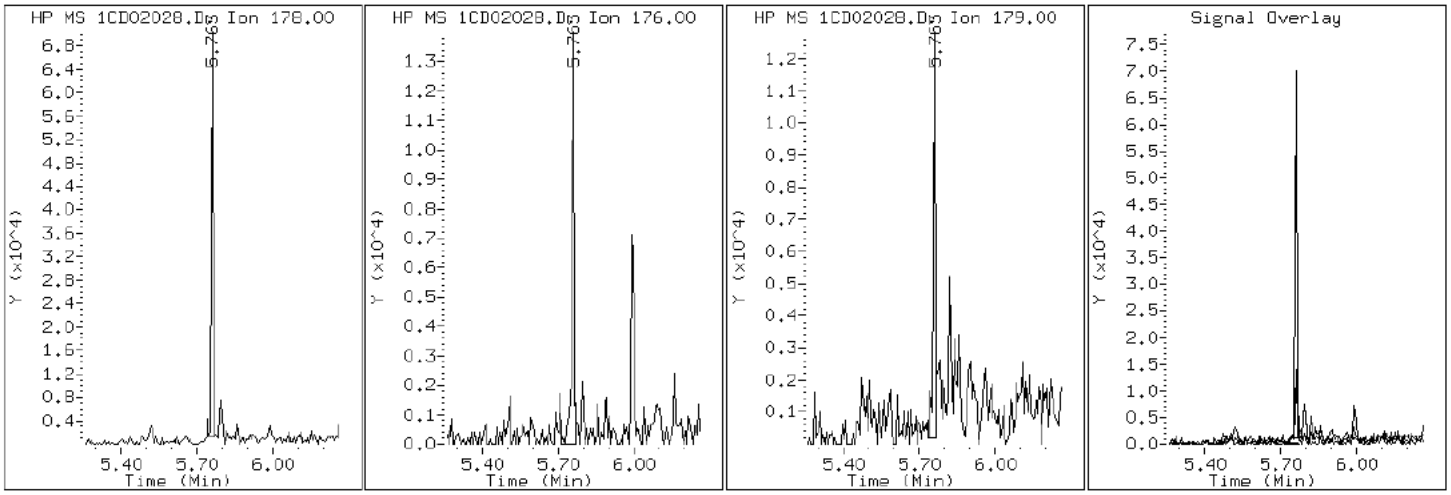
Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC

11 Phenanthrene



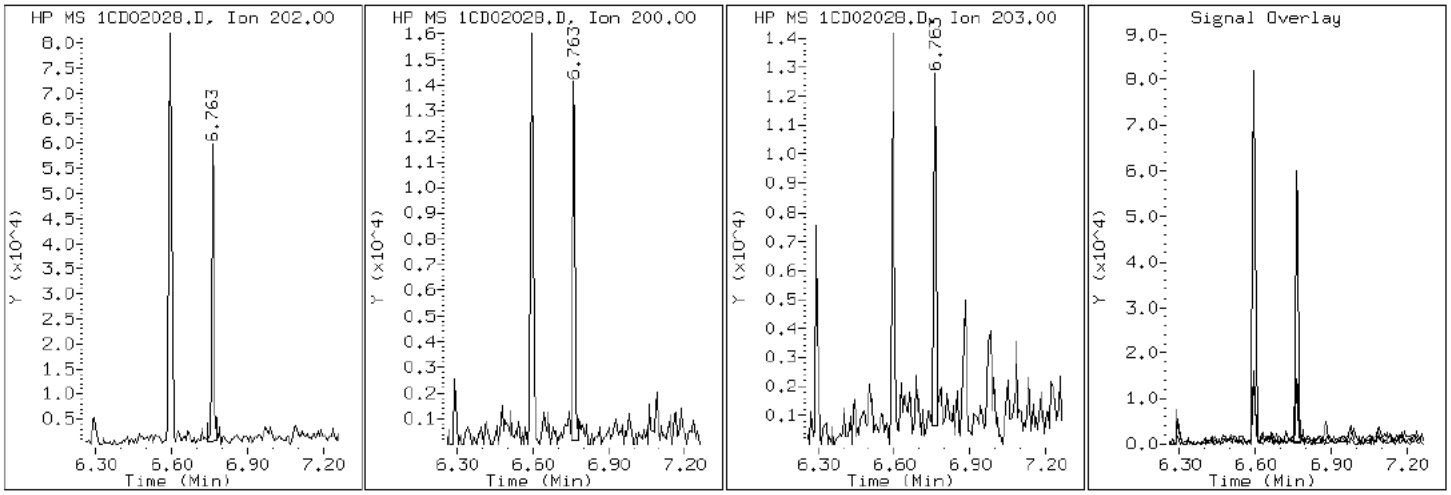
Data File: 1CD02028.D

Date: 02-APR-2013 20:37

Client ID: CV0476A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD02028.D
Inj. Date and Time: 02-APR-2013 20:37
Instrument ID: BSMC5973.i
Client ID: CV0476A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

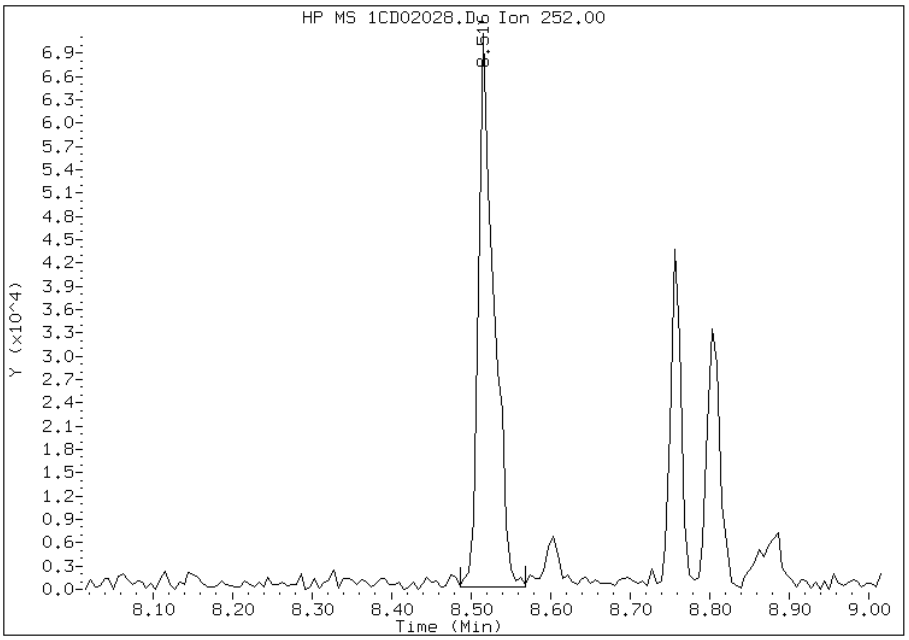
Processing Integration Results

RT: 8.52

Response: 96801

Amount: 3

Conc: 228



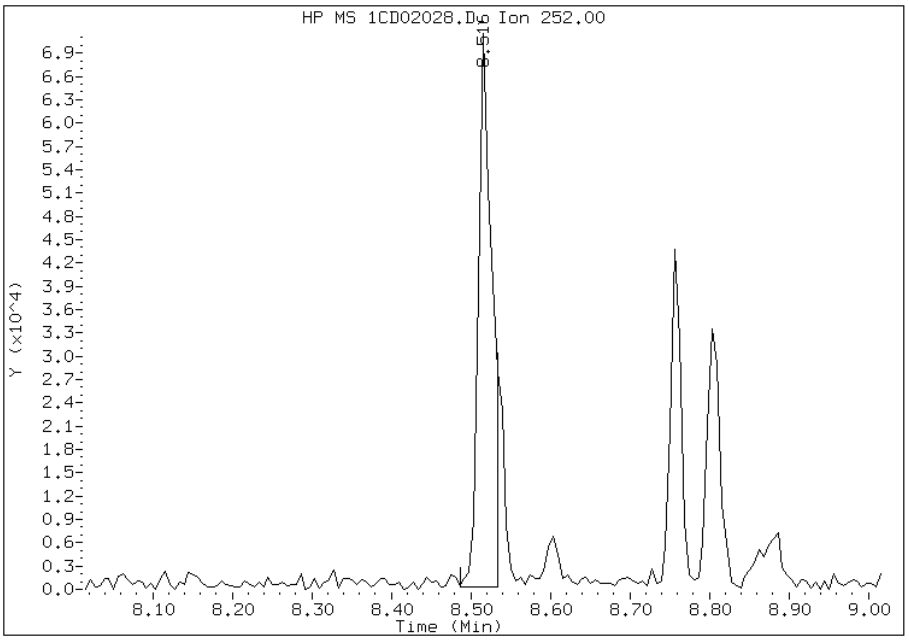
Manual Integration Results

RT: 8.52

Response: 84442

Amount: 3

Conc: 199



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:33
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD02028.D
Inj. Date and Time: 02-APR-2013 20:37
Instrument ID: BSMC5973.i
Client ID: CV0476A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

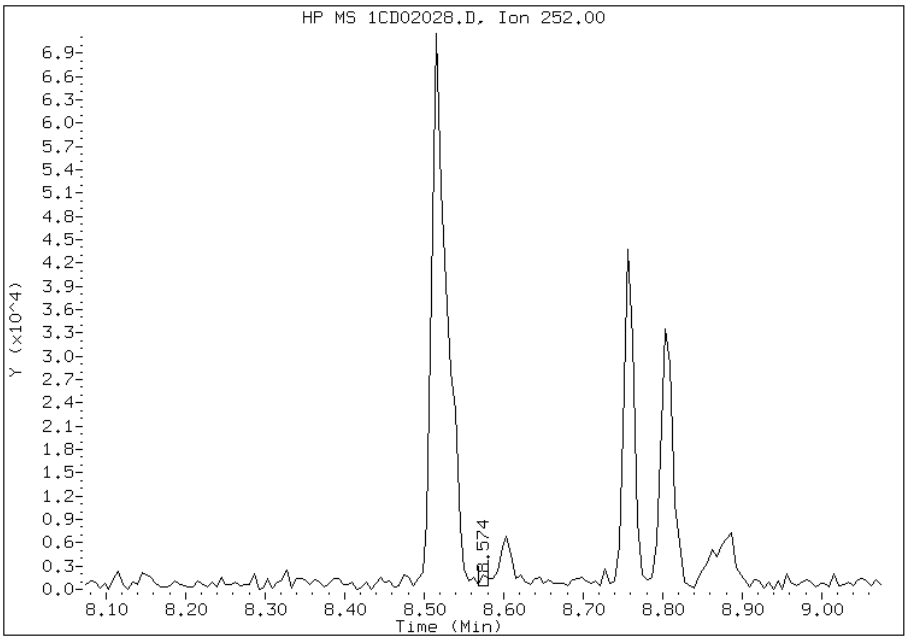
Processing Integration Results

RT: 8.57

Response: 792

Amount: 0

Conc: 2



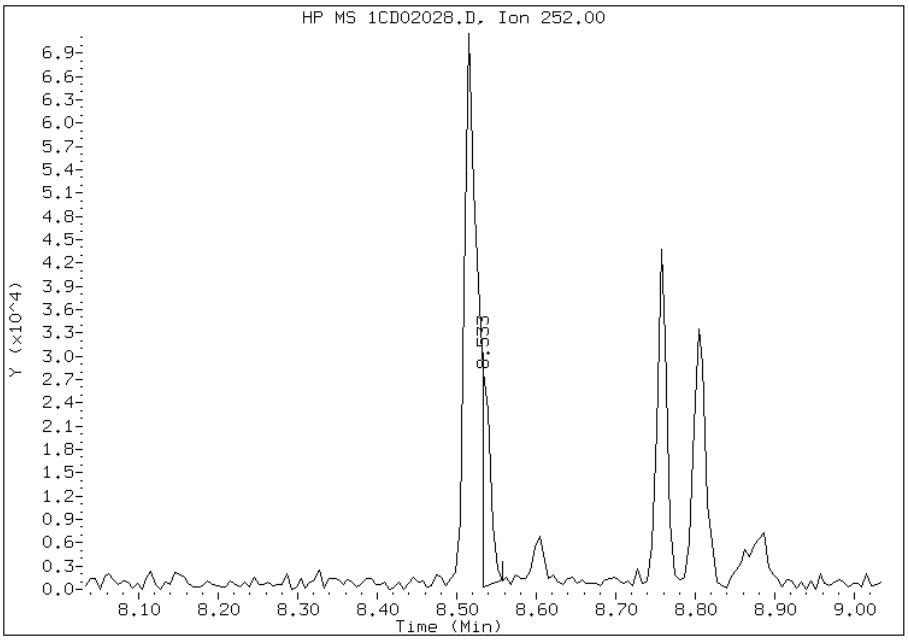
Manual Integration Results

RT: 8.53

Response: 20935

Amount: 1

Conc: 51



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD02028.D
Inj. Date and Time: 02-APR-2013 20:37
Instrument ID: BSMC5973.i
Client ID: CV0476A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

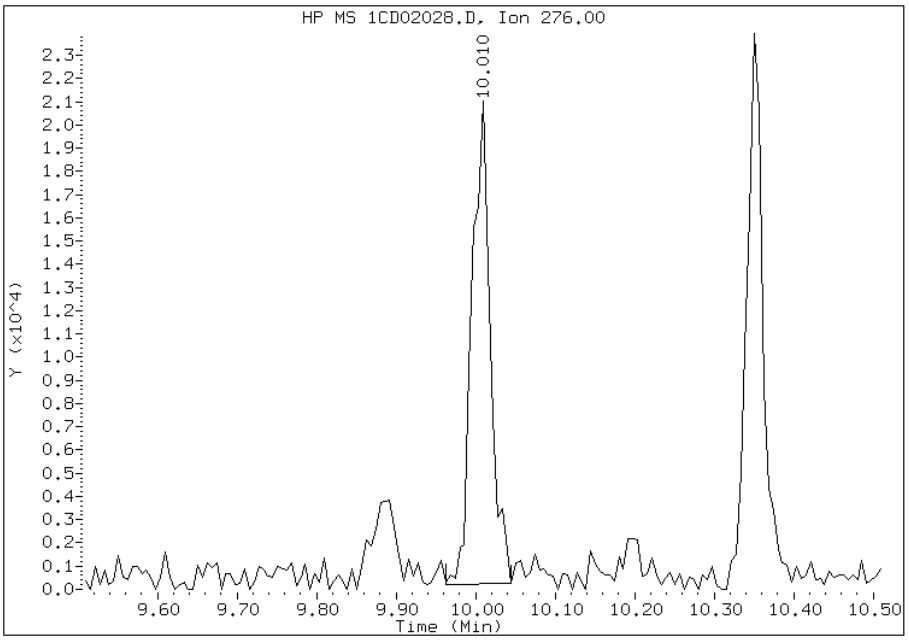
Processing Integration Results

RT: 10.01

Response: 33315

Amount: 1

Conc: 88



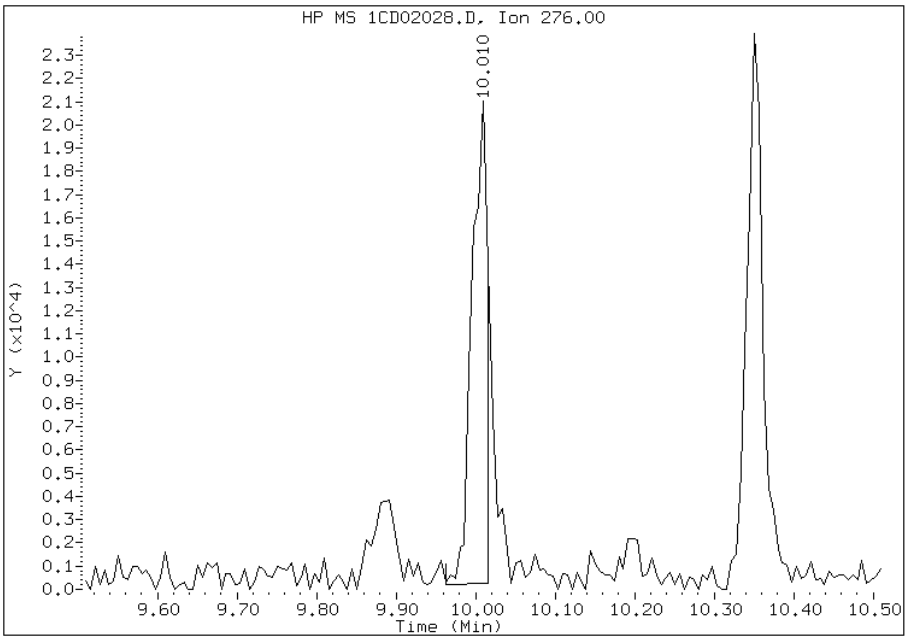
Manual Integration Results

RT: 10.01

Response: 27957

Amount: 1

Conc: 74



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: CV0476B-CS-SP | Lab Sample ID: 680-88632-22

Matrix: Solid | Lab File ID: 1CC28039.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 15:44

Extract. Method: 3546 | Date Extracted: 03/27/2013 11:19

Sample wt/vol: 14.60(g) | Date Analyzed: 03/28/2013 23:00

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.: 135902 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	6.4	J	50	6.3
120-12-7	Anthracene	9.6	J	11	5.3
56-55-3	Benzo[a]anthracene	41		10	4.9
50-32-8	Benzo[a]pyrene	33		13	6.6
205-99-2	Benzo[b]fluoranthene	74		15	7.7
191-24-2	Benzo[g,h,i]perylene	43		25	5.6
207-08-9	Benzo[k]fluoranthene	16		10	4.5
218-01-9	Chrysene	57		11	5.7
53-70-3	Dibenz(a,h)anthracene	17	J	25	5.2
206-44-0	Fluoranthene	60		25	5.0
86-73-7	Fluorene	5.9	J	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	41		25	9.0
90-12-0	1-Methylnaphthalene	24	J	50	5.6
91-57-6	2-Methylnaphthalene	29	J	50	9.0
91-20-3	Naphthalene	35	J	50	5.6
85-01-8	Phenanthrene	47		10	4.9
129-00-0	Pyrene	53		25	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	54		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28039.D
Lab Smp Id: 680-88632-A-22-A Client Smp ID: CV0476B-CS-SP
Inj Date : 28-MAR-2013 23:00
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-22-a
Misc Info : 680-88632-A-22-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 39
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	14.600	Weight Extracted
M	18.554	% 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	3.722	3.722	(1.000)	975209	40.0000	
* 6 Acenaphthene-d10	164	4.810	4.810	(1.000)	744979	40.0000	
* 10 Phenanthrene-d10	188	5.763	5.763	(1.000)	1373836	40.0000	
$ 14 o-Terphenyl	230	6.010	6.010	(1.043)	111424	5.37175	451.7461
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	1469451	40.0000	
* 23 Perylene-d12	264	8.886	8.886	(1.000)	1339187	40.0000	
2 Naphthalene	128	3.733	3.733	(1.003)	10531	0.41480	34.8829(Q)
3 2-Methylnaphthalene	142	4.163	4.163	(1.119)	5818	0.34355	28.8910
4 1-Methylnaphthalene	142	4.222	4.222	(1.134)	4317	0.27989	23.5378
5 Acenaphthylene	152	4.722	4.722	(0.982)	2270	0.07558	6.3558
9 Fluorene	166	5.151	5.151	(1.071)	1649	0.06984	5.8736(Q)
11 Phenanthrene	178	5.774	5.774	(1.002)	22227	0.55952	47.0535
12 Anthracene	178	5.810	5.810	(1.008)	4454	0.11464	9.6410
13 Carbazole	167	5.921	5.921	(1.028)	3884	0.11246	9.4577(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.610	6.616	(1.147)	31201	0.71720	60.3140
16 Pyrene	202	6.780	6.780	(0.880)	24903	0.63063	53.0334
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	20754	0.48935	41.1528
19 Chrysene	228	7.721	7.721	(1.002)	28940	0.68185	57.3416
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	30925	0.88362	74.3097(M)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	6843	0.19060	16.0288(QM)
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	13472	0.39630	33.3274
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.045	(1.130)	15719	0.49154	41.3367
25 Dibenzo(a,h)anthracene	278	10.062	10.062	(1.132)	6443	0.20598	17.3220(M)
26 Benzo(g,h,i)perylene	276	10.386	10.398	(1.169)	17106	0.51135	43.0024(M)

QC Flag Legend

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

Data File: 1CC28039.D

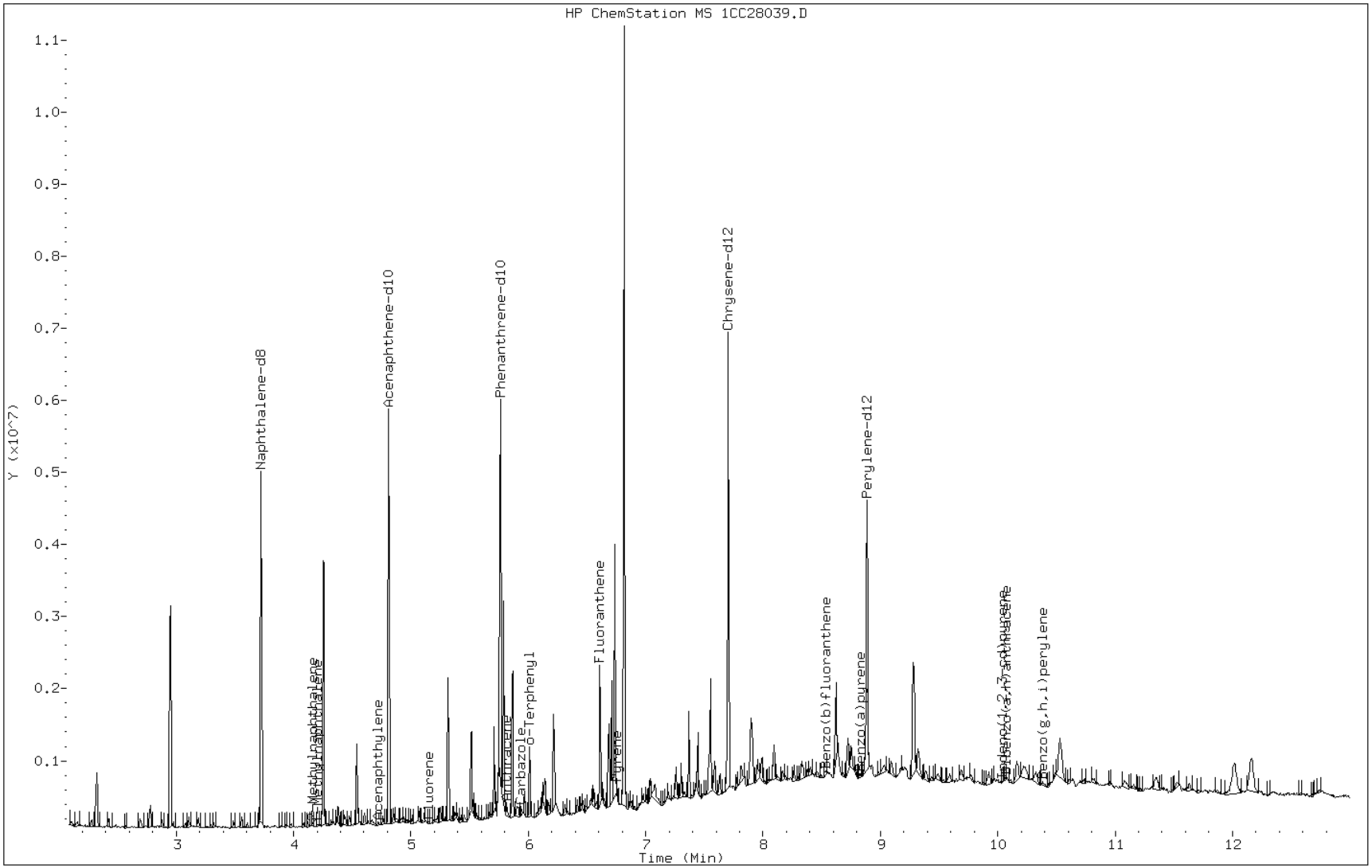
Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a

Operator: SCC



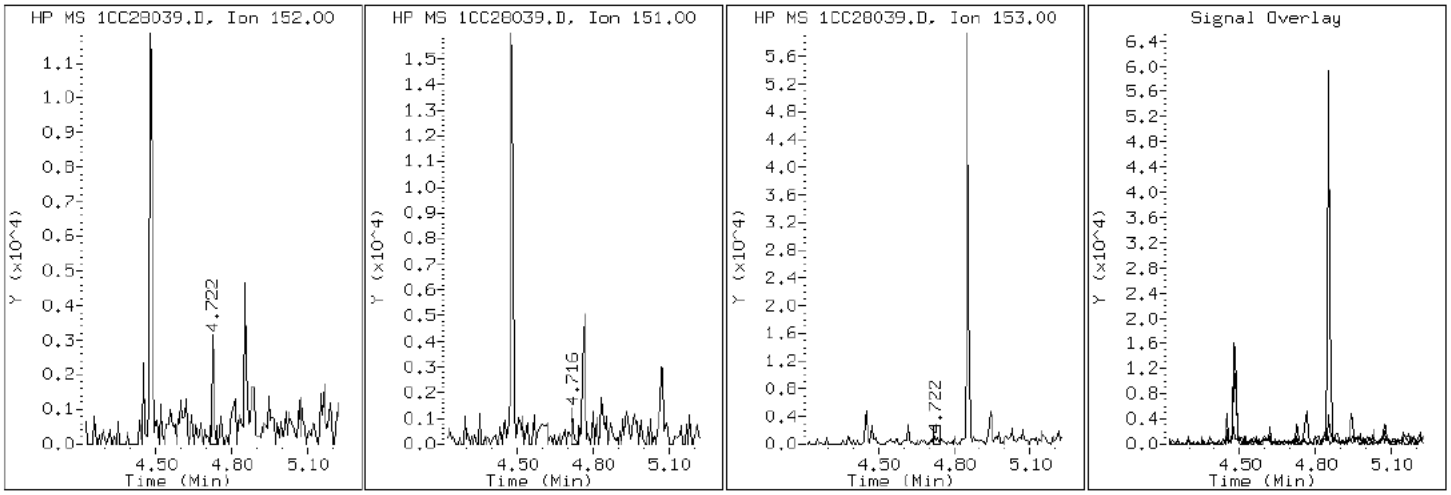
Data File: 1CC28039.D

Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a Operator: SCC

5 Acenaphthylene



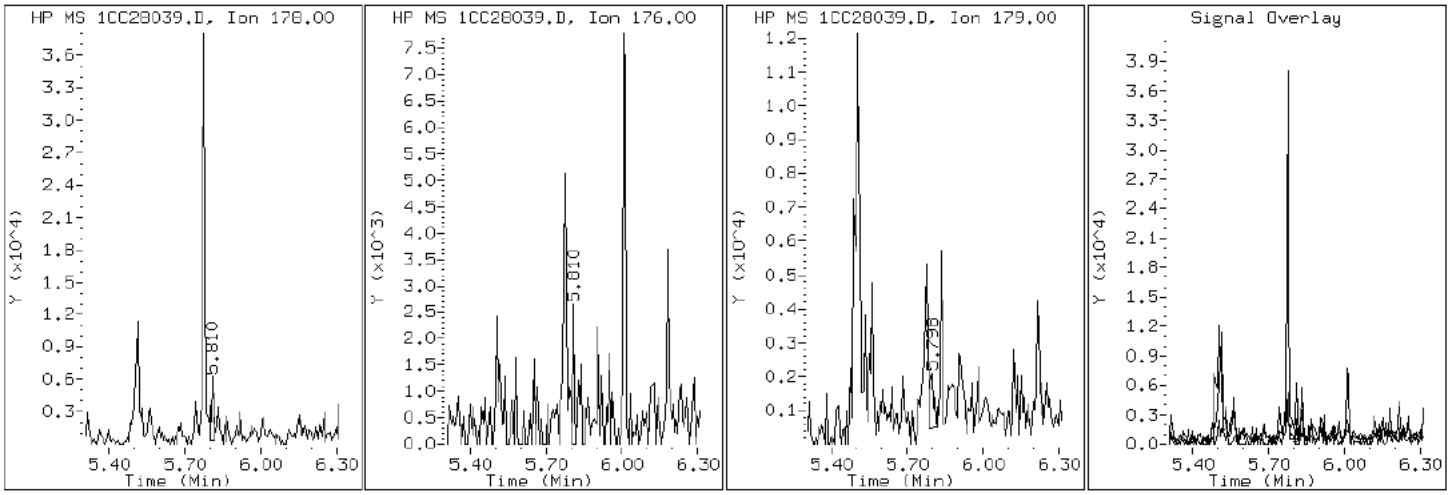
Data File: 1CC28039.D

Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a Operator: SCC

12 Anthracene



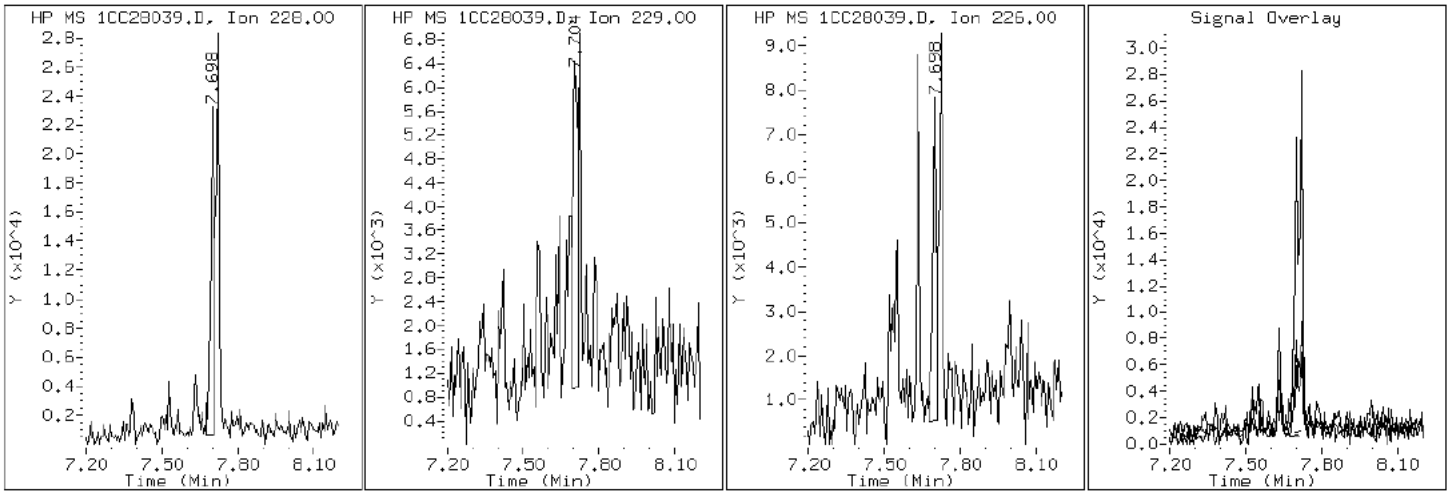
Data File: 1CC28039.D

Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a Operator: SCC

17 Benzo(a)anthracene



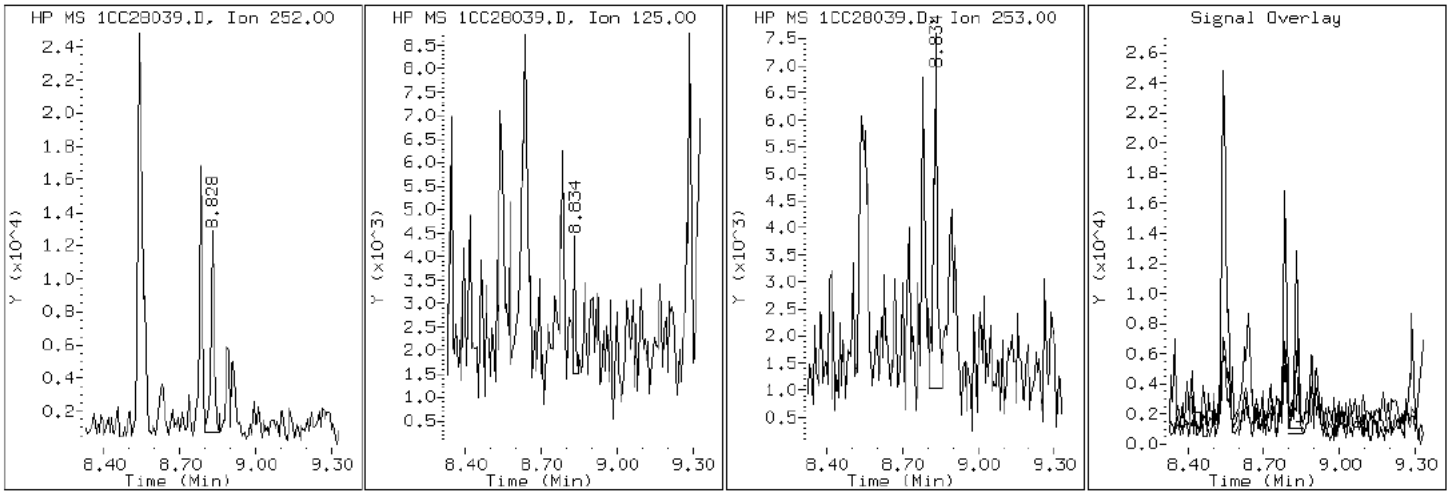
Data File: 1CC28039.D

Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a Operator: SCC

22 Benzo(a)pyrene



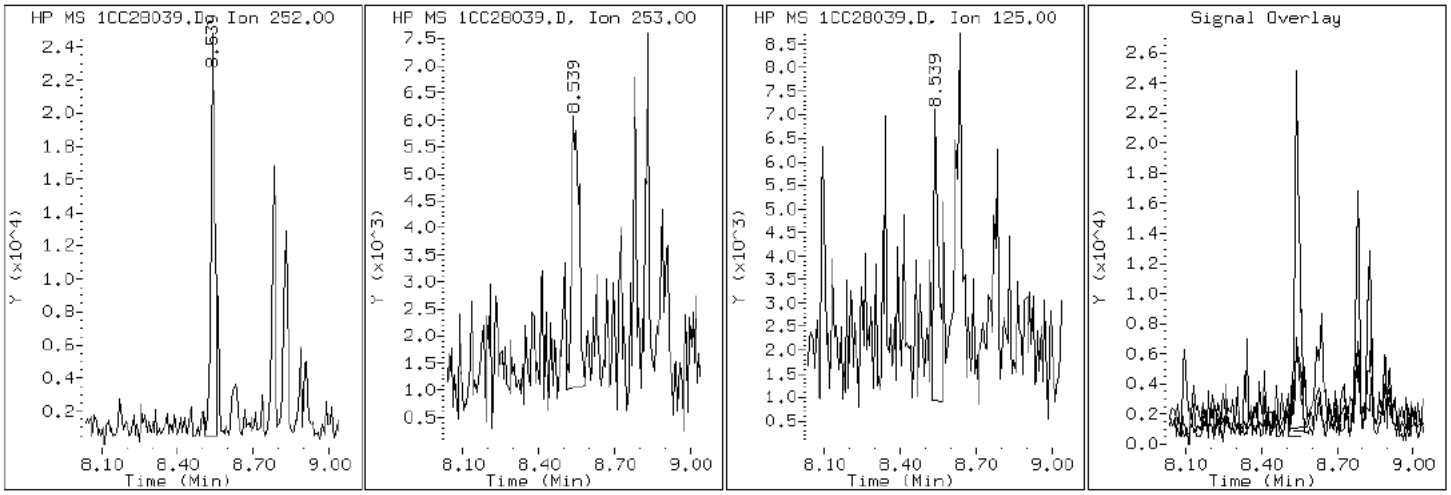
Data File: 1CC28039.D

Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a Operator: SCC

20 Benzo(b)fluoranthene



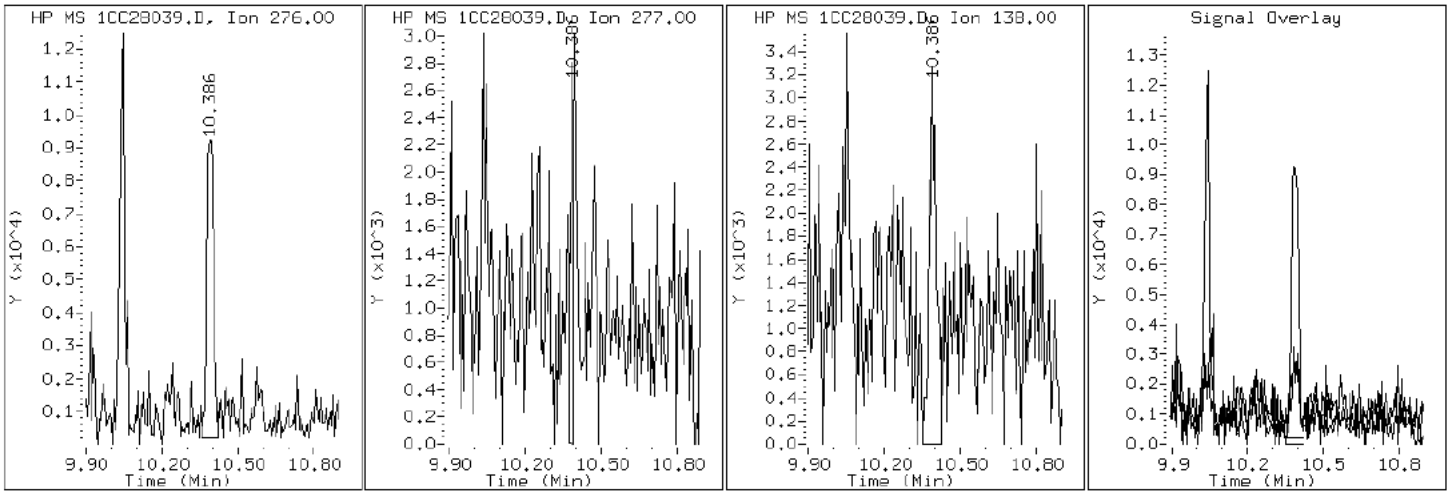
Data File: 1CC28039.D

Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a Operator: SCC

26 Benzo(g,h,i)perylene



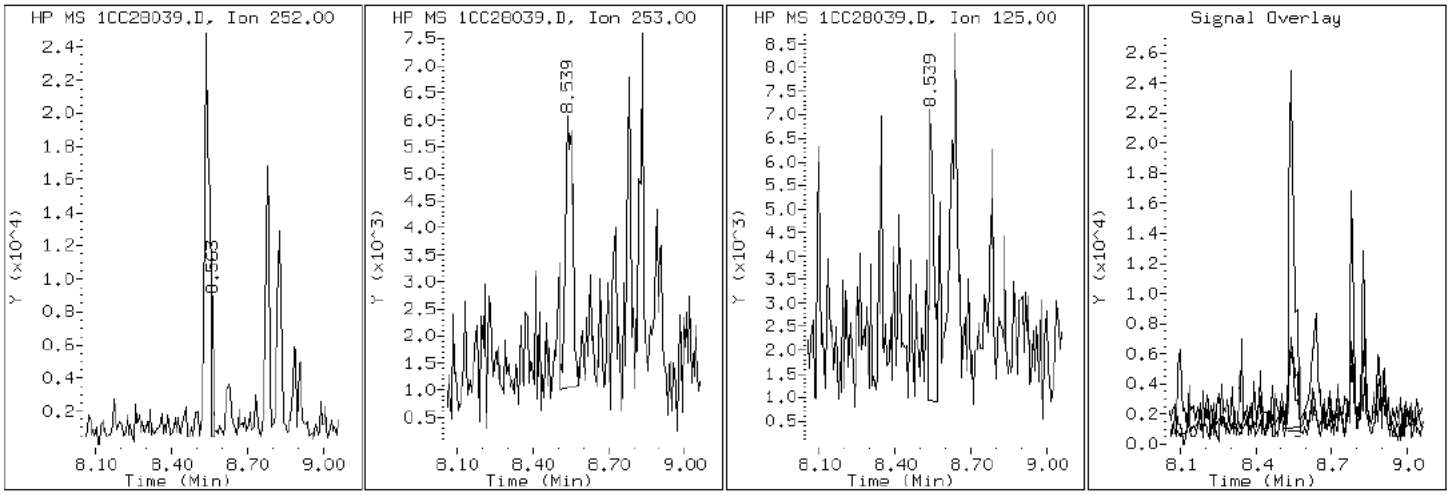
Data File: 1CC28039.D

Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a Operator: SCC

21 Benzo(k)fluoranthene



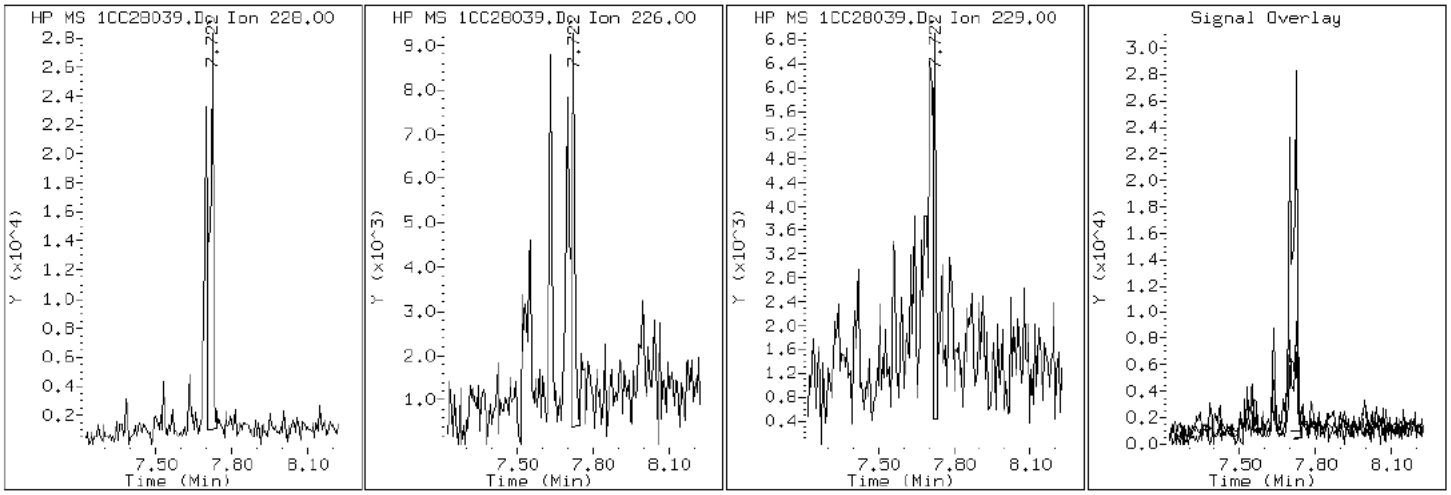
Data File: 1CC28039.D

Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a Operator: SCC

19 Chrysene



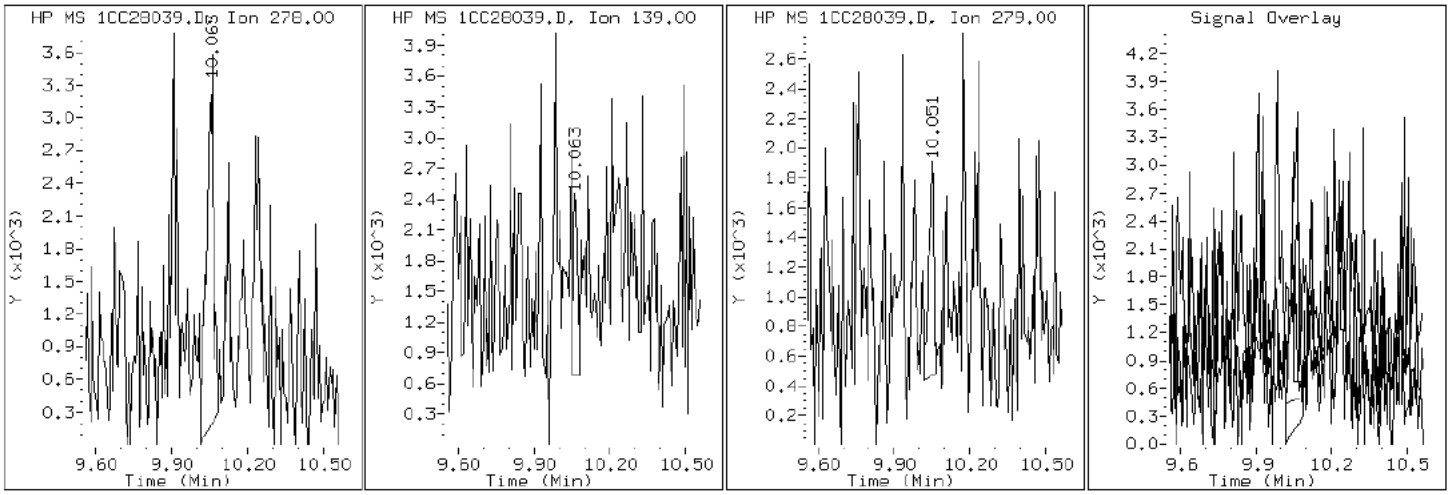
Data File: 1CC28039.D

Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a Operator: SCC

25 Dibenzo(a,h)anthracene



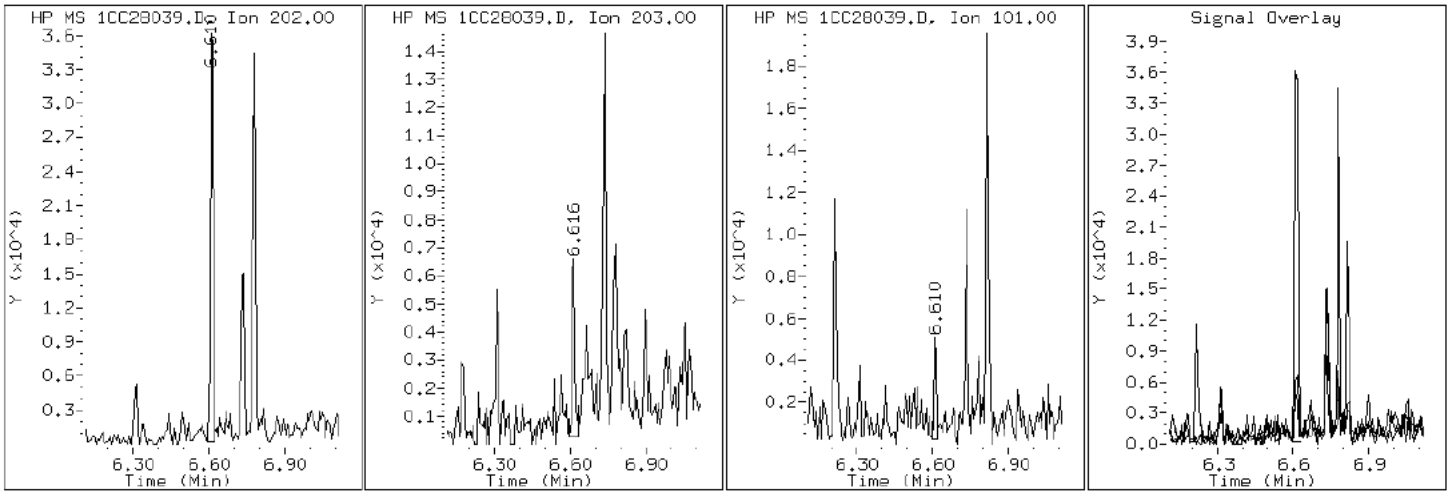
Data File: 1CC28039.D

Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a Operator: SCC

15 Fluoranthene



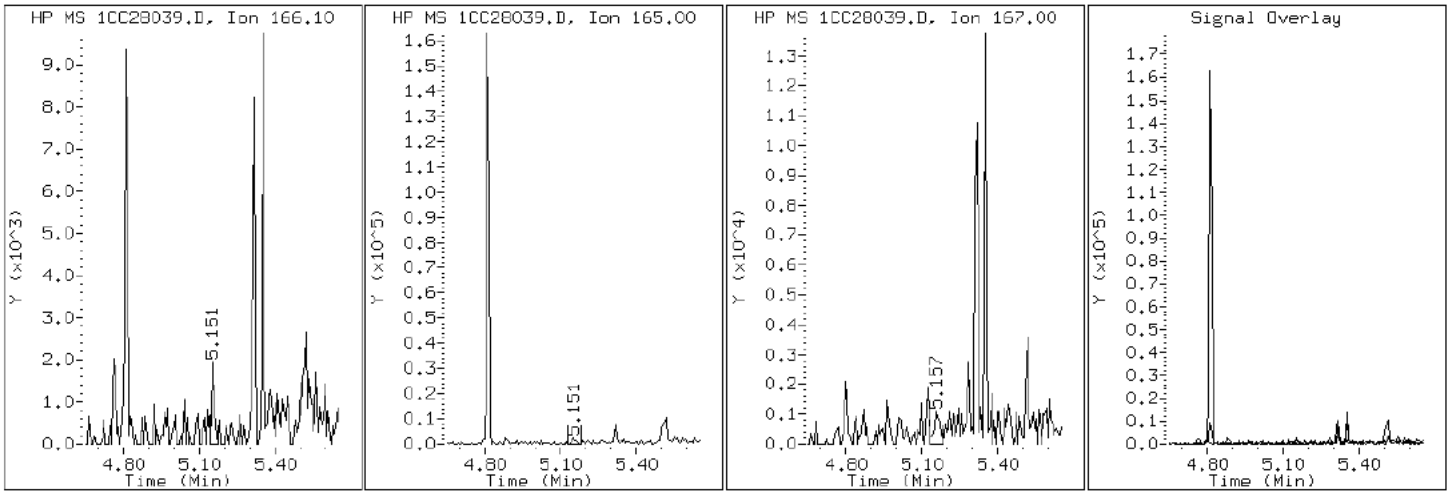
Data File: 1CC28039.D

Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a Operator: SCC

9 Fluorene



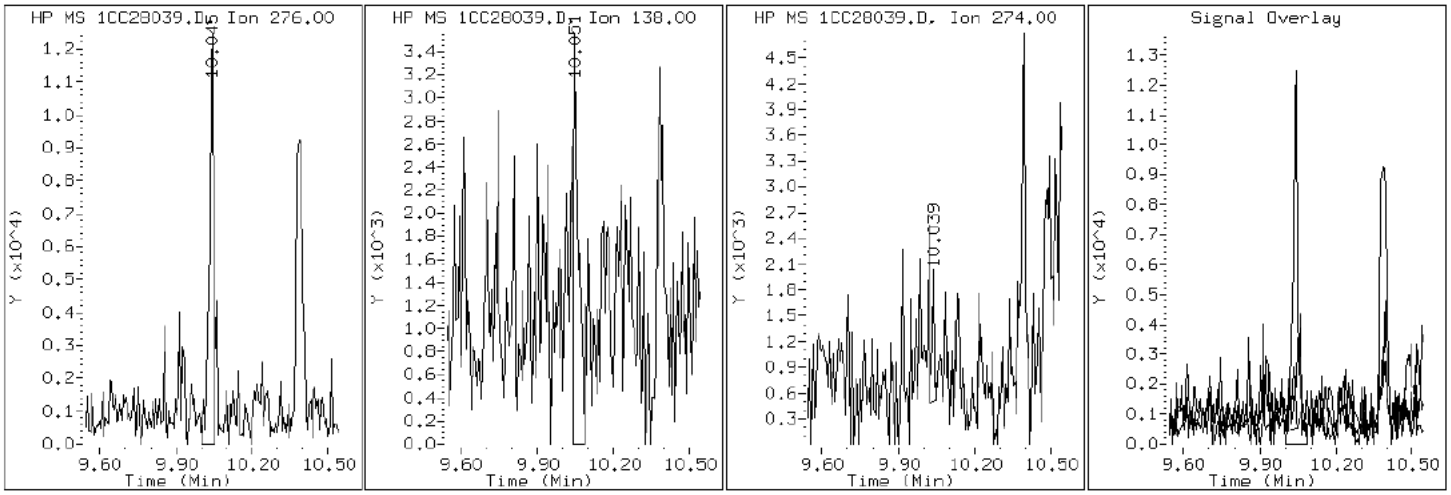
Data File: 1CC28039.D

Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a Operator: SCC

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



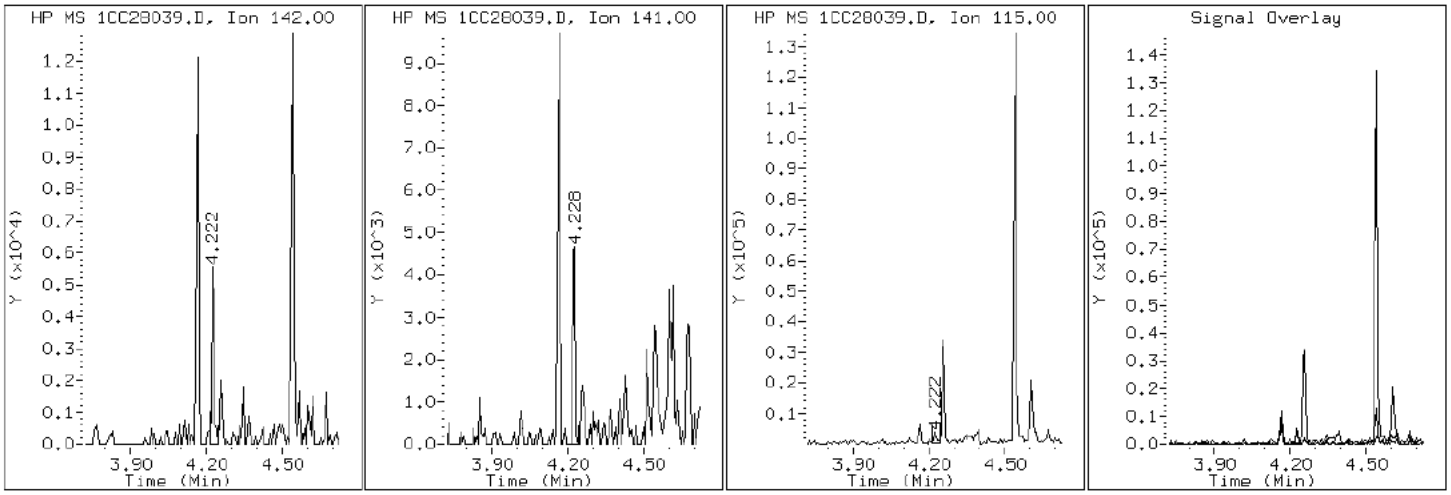
Data File: 1CC28039.D

Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a Operator: SCC

4 1-Methylnaphthalene



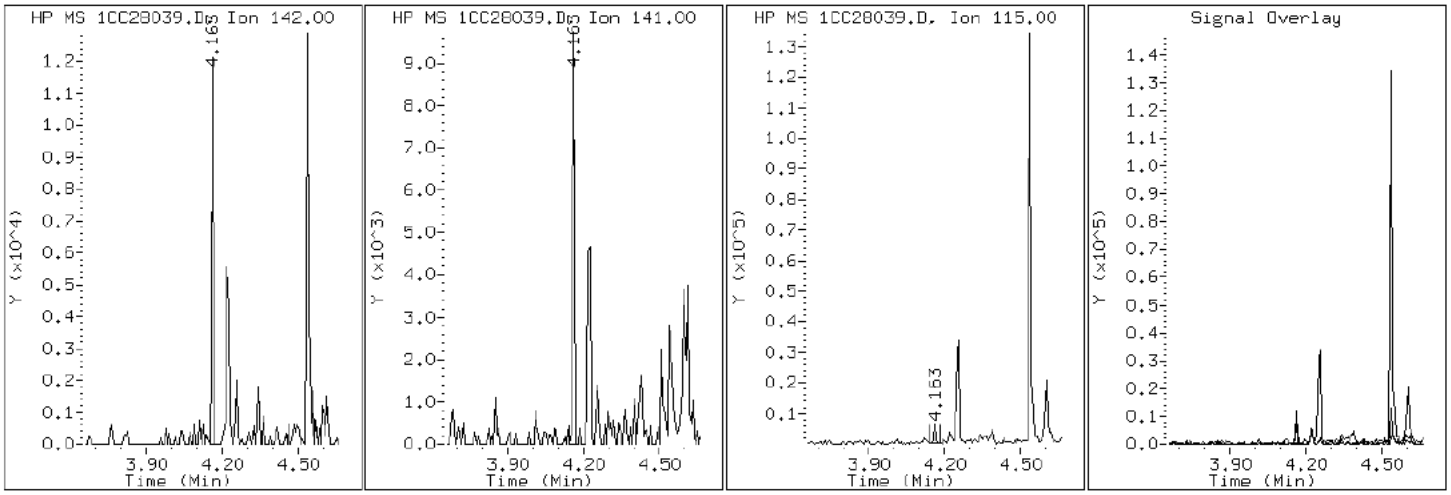
Data File: 1CC28039.D

Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a Operator: SCC

3 2-Methylnaphthalene



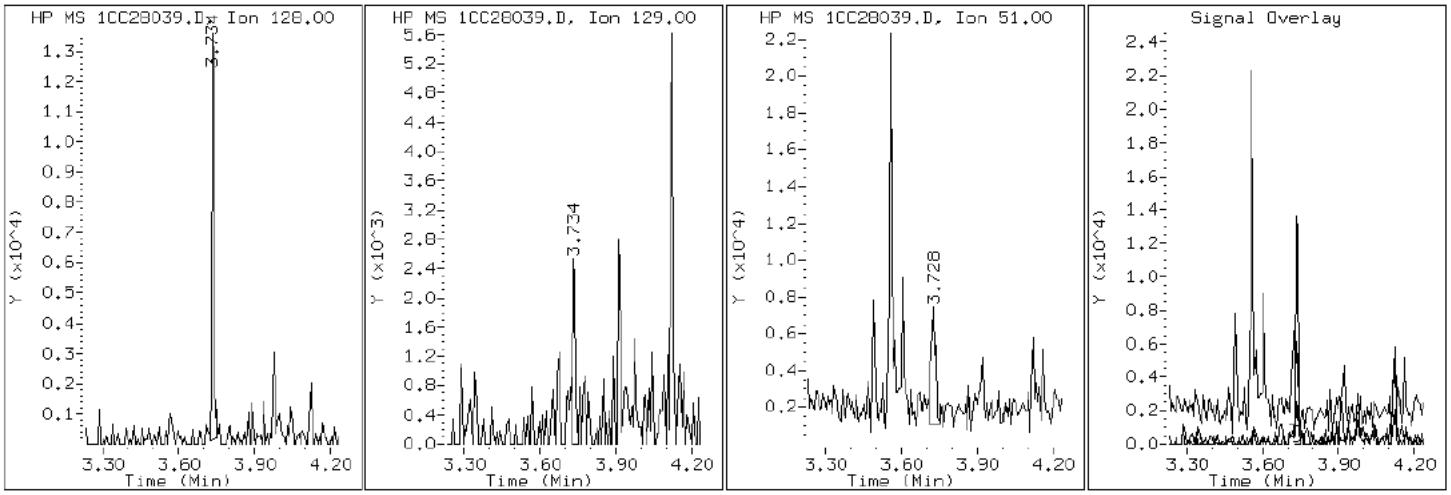
Data File: 1CC28039.D

Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a Operator: SCC

2 Naphthalene



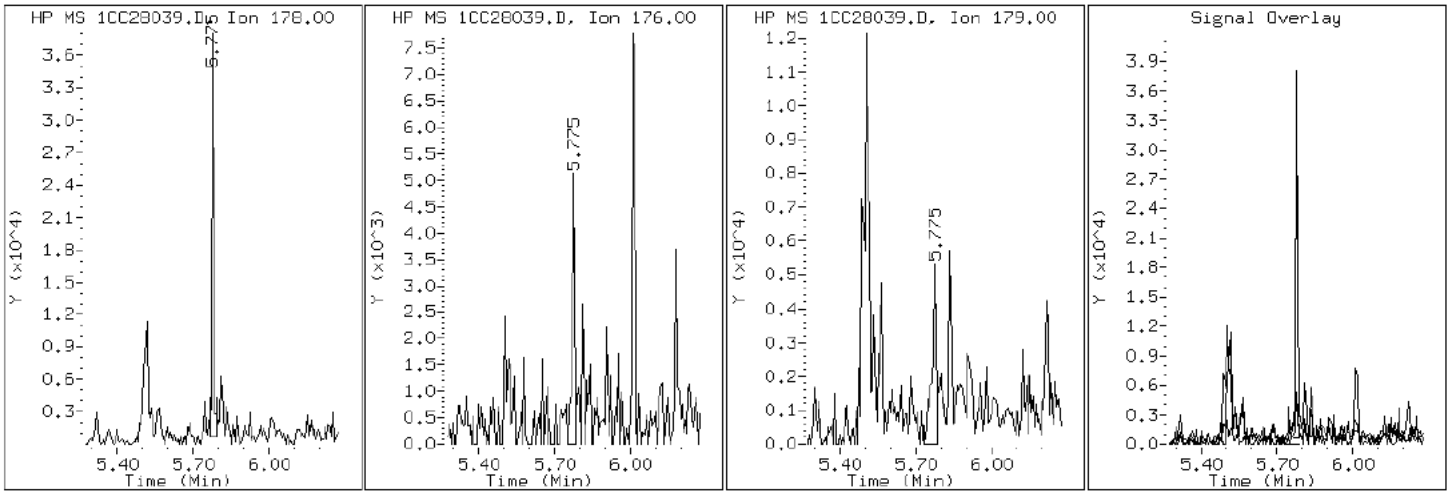
Data File: 1CC28039.D

Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a Operator: SCC

11 Phenanthrene



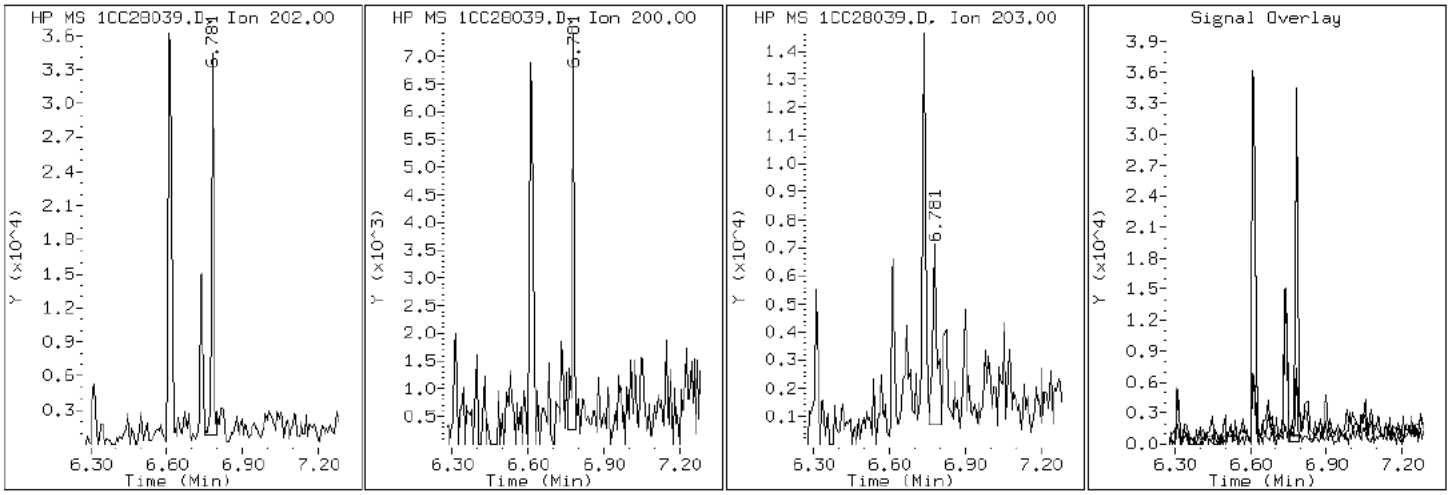
Data File: 1CC28039.D

Date: 28-MAR-2013 23:00

Client ID: CV0476B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-22-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC28039.D
Inj. Date and Time: 28-MAR-2013 23:00
Instrument ID: BSMC5973.i
Client ID: CV0476B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/02/2013

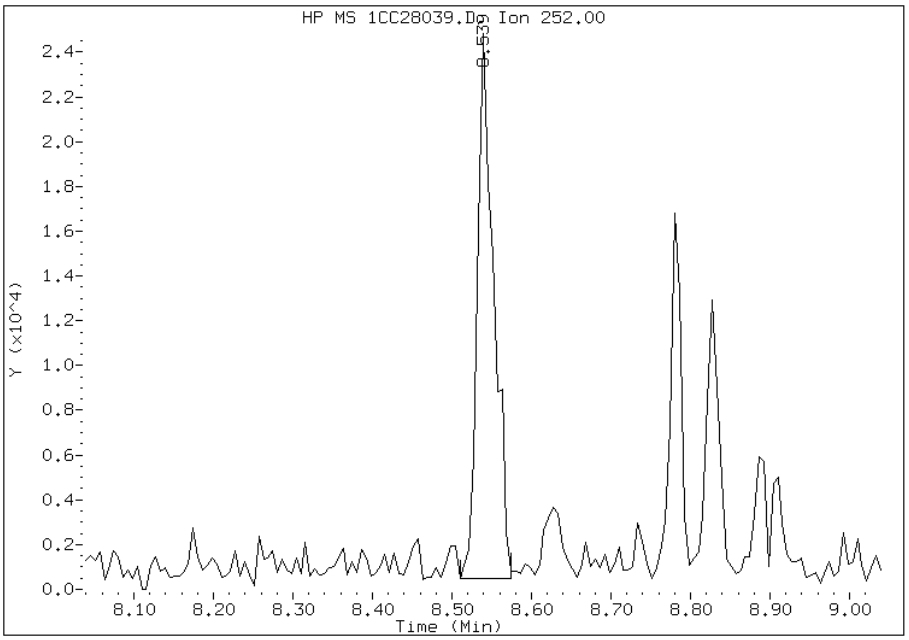
Processing Integration Results

RT: 8.54

Response: 34767

Amount: 1

Conc: 84



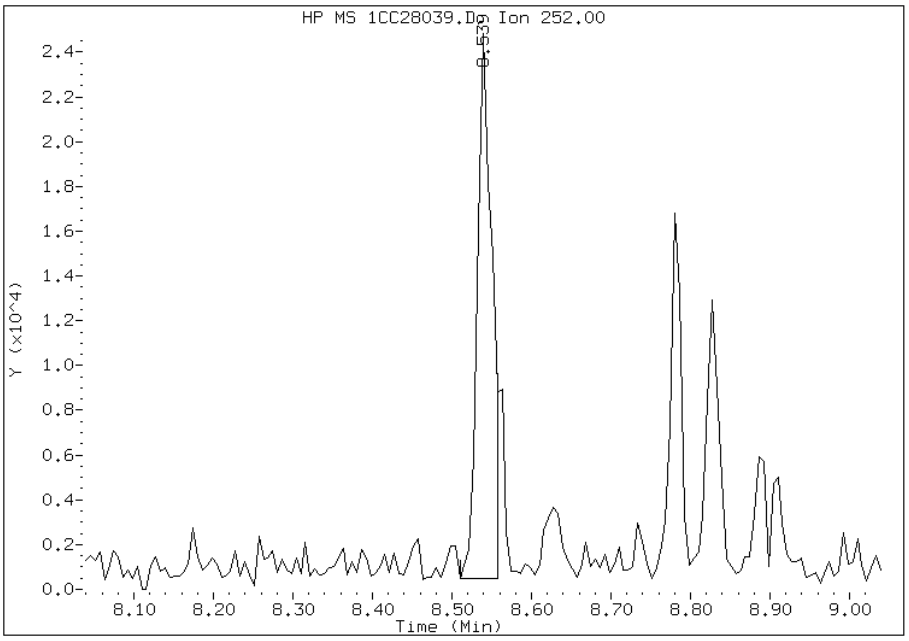
Manual Integration Results

RT: 8.54

Response: 30925

Amount: 1

Conc: 74



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 12:21
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC28039.D
Inj. Date and Time: 28-MAR-2013 23:00
Instrument ID: BSMC5973.i
Client ID: CV0476B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/02/2013

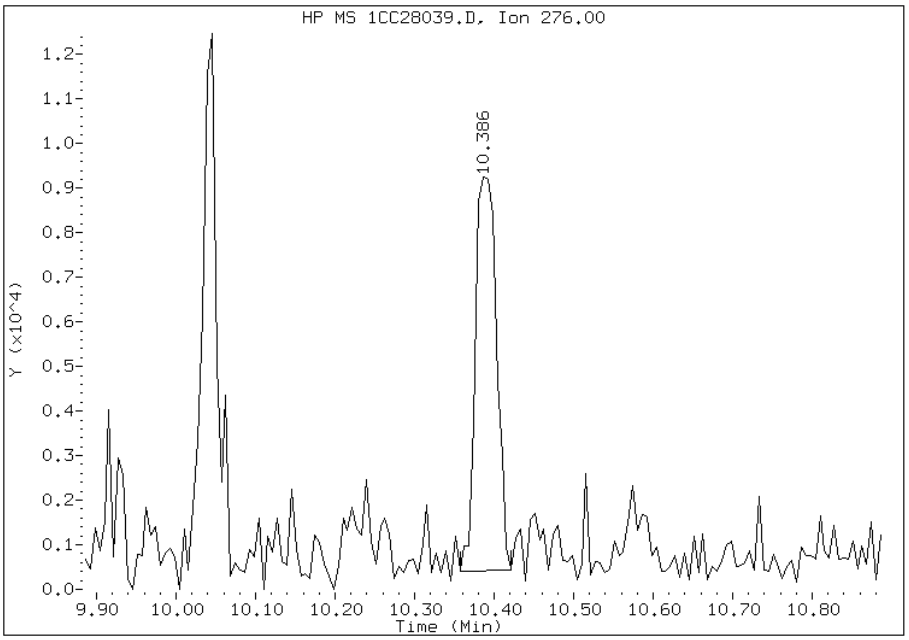
Processing Integration Results

RT: 10.39

Response: 16179

Amount: 0

Conc: 41



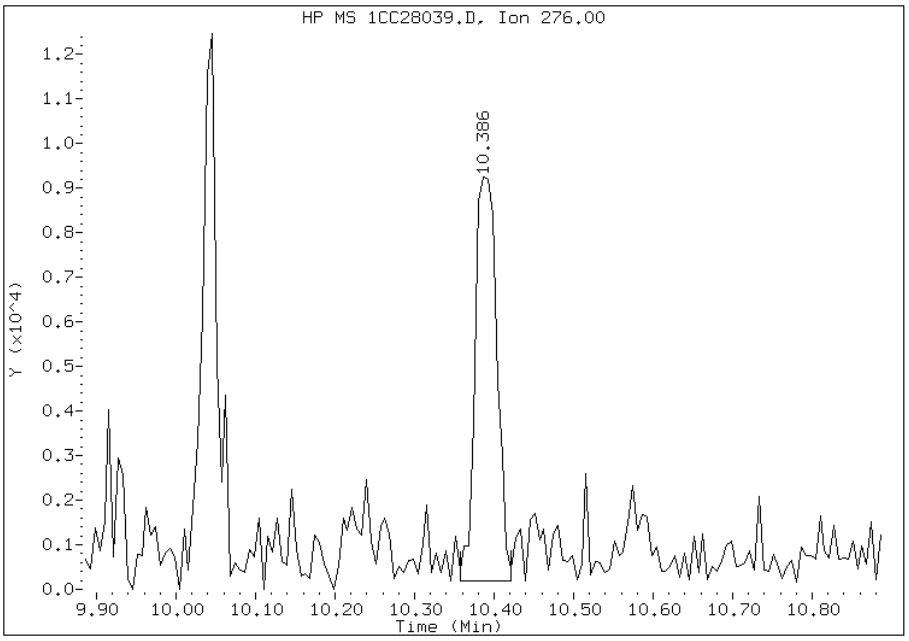
Manual Integration Results

RT: 10.39

Response: 17106

Amount: 1

Conc: 43



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 12:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28039.D
Inj. Date and Time: 28-MAR-2013 23:00
Instrument ID: BSMC5973.i
Client ID: CV0476B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/02/2013

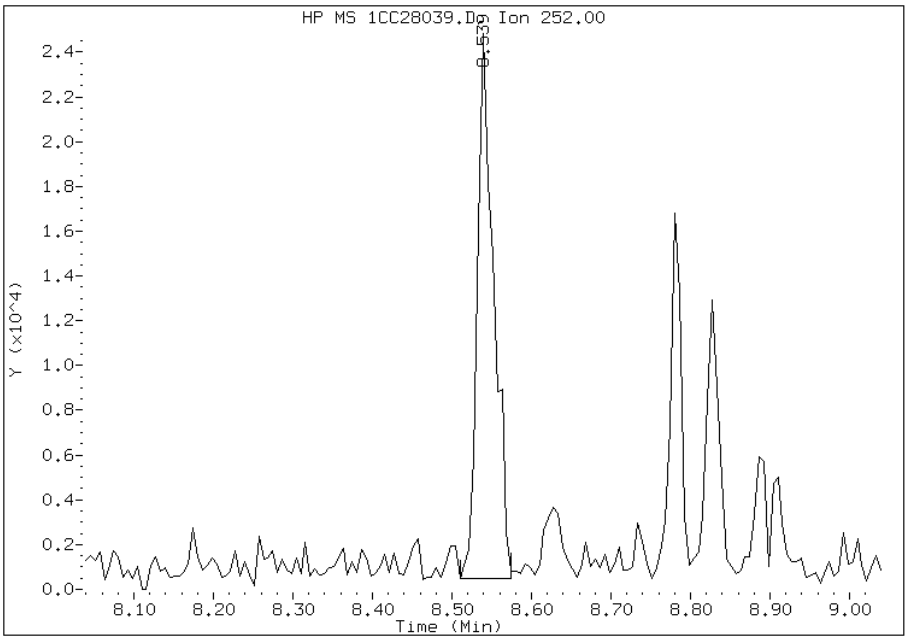
Processing Integration Results

RT: 8.54

Response: 34767

Amount: 1

Conc: 81



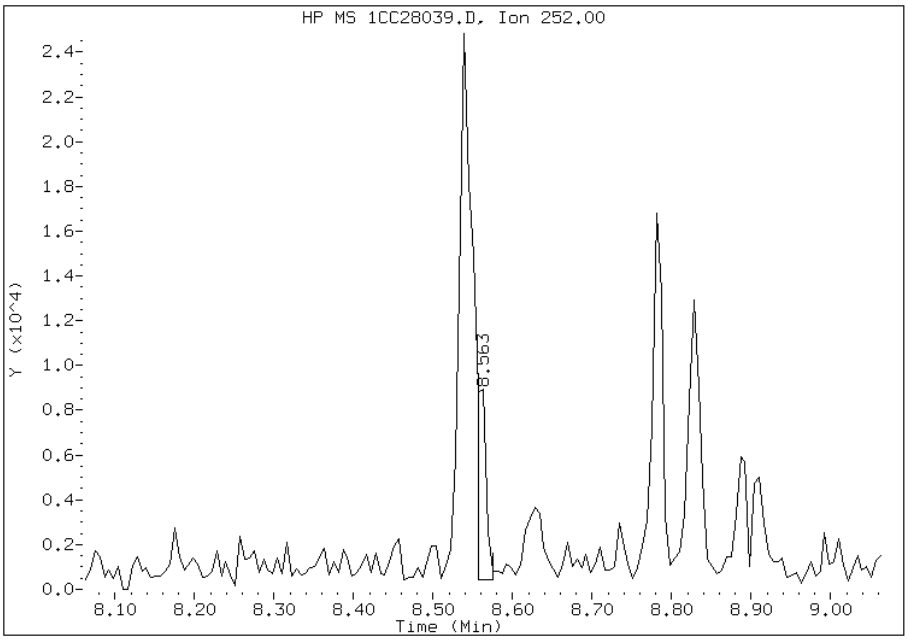
Manual Integration Results

RT: 8.56

Response: 6843

Amount: 0

Conc: 16



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 12:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28039.D
Inj. Date and Time: 28-MAR-2013 23:00
Instrument ID: BSMC5973.i
Client ID: CV0476B-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/02/2013

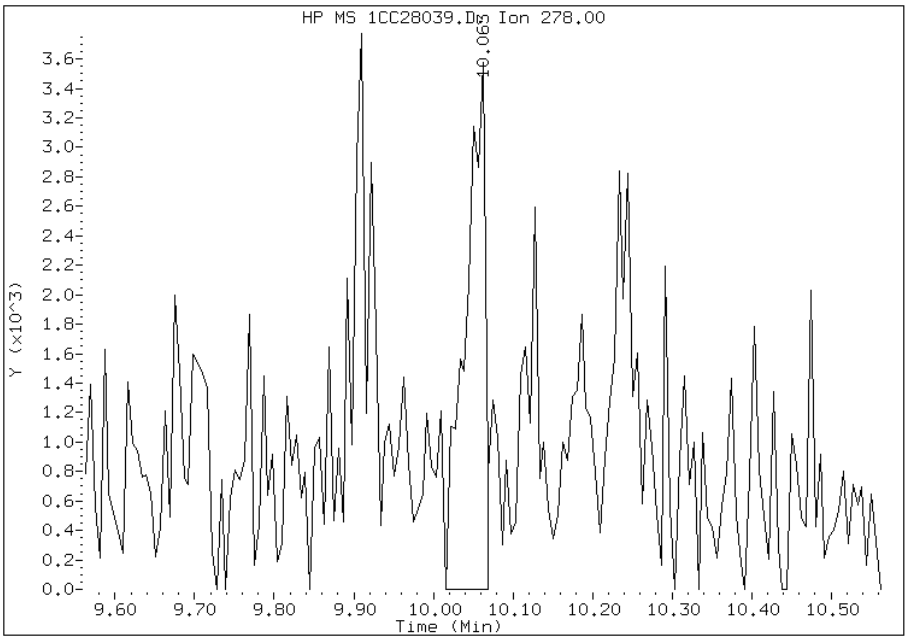
Processing Integration Results

RT: 10.06

Response: 6239

Amount: 0

Conc: 17



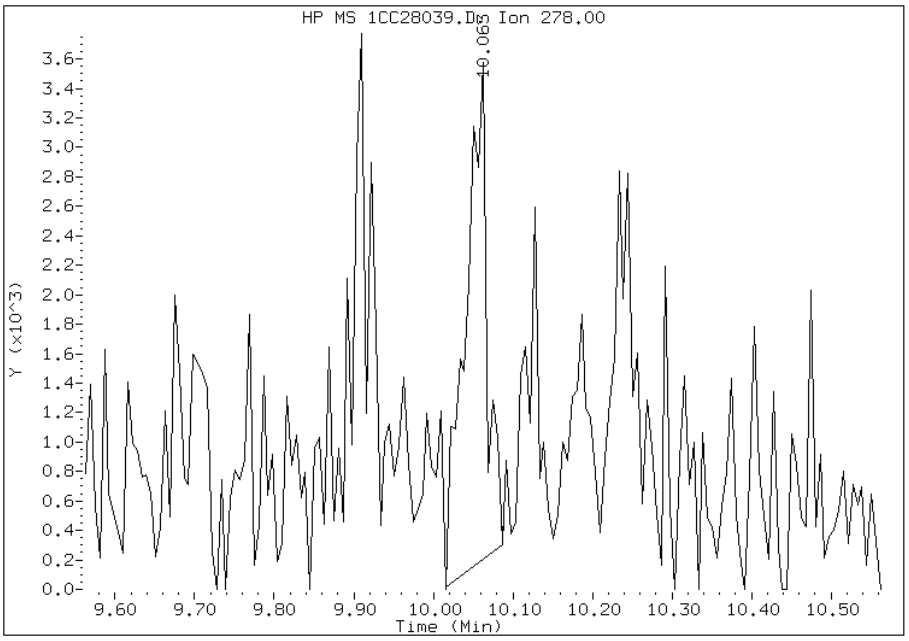
Manual Integration Results

RT: 10.06

Response: 6443

Amount: 0

Conc: 17



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 12:21
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: CV0566A-CS-SP | Lab Sample ID: 680-88632-23

Matrix: Solid | Lab File ID: 1CC28040.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 16:01

Extract. Method: 3546 | Date Extracted: 03/27/2013 11:19

Sample wt/vol: 14.83(g) | Date Analyzed: 03/28/2013 23:19

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

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

% Moisture: 25.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135902 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	J	140	27
208-96-8	Acenaphthylene	19	J	55	6.8
120-12-7	Anthracene	200		11	5.7
56-55-3	Benzo[a]anthracene	450		11	5.3
50-32-8	Benzo[a]pyrene	360		14	7.1
205-99-2	Benzo[b]fluoranthene	560		17	8.3
191-24-2	Benzo[g,h,i]perylene	250		27	6.0
207-08-9	Benzo[k]fluoranthene	290		11	4.9
218-01-9	Chrysene	440		12	6.1
53-70-3	Dibenz(a,h)anthracene	93		27	5.6
206-44-0	Fluoranthene	1000		27	5.5
86-73-7	Fluorene	92		27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	220		27	9.7
90-12-0	1-Methylnaphthalene	91		55	6.0
91-57-6	2-Methylnaphthalene	120		55	9.7
91-20-3	Naphthalene	160		55	6.0
85-01-8	Phenanthrene	940		11	5.3
129-00-0	Pyrene	840		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	36		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28040.D
Lab Smp Id: 680-88632-A-23-A Client Smp ID: CV0566A-CS-SP
Inj Date : 28-MAR-2013 23:19
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-23-a
Misc Info : 680-88632-A-23-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 40
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	14.830	Weight Extracted
M	25.880	% 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	3.721	3.722	(1.000)	962368	40.0000	
* 6 Acenaphthene-d10	164	4.810	4.810	(1.000)	776323	40.0000	
* 10 Phenanthrene-d10	188	5.762	5.763	(1.000)	1366864	40.0000	
$ 14 o-Terphenyl	230	6.010	6.010	(1.043)	74712	3.62024	329.3518
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	1509876	40.0000	
* 23 Perylene-d12	264	8.886	8.886	(1.000)	1392754	40.0000	
2 Naphthalene	128	3.739	3.733	(1.005)	44780	1.78733	162.6030
3 2-Methylnaphthalene	142	4.163	4.163	(1.119)	22713	1.35907	123.6416
4 1-Methylnaphthalene	142	4.227	4.222	(1.136)	15234	1.00087	91.0541
5 Acenaphthylene	152	4.721	4.722	(0.982)	6524	0.20844	18.9630
7 Acenaphthene	154	4.833	4.833	(1.005)	22436	1.15328	104.9201
9 Fluorene	166	5.151	5.151	(1.071)	24945	1.01389	92.2392
11 Phenanthrene	178	5.774	5.774	(1.002)	410000	10.3735	943.7339
12 Anthracene	178	5.810	5.810	(1.008)	85269	2.20596	200.6877

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.921	5.921	(1.028)	47213	1.37404	125.0039
15 Fluoranthene	202	6.615	6.616	(1.148)	484347	11.1902	1018.0293
16 Pyrene	202	6.780	6.780	(0.880)	373731	9.21070	837.9450
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	216983	4.97919	452.9830
19 Chrysene	228	7.721	7.721	(1.002)	209363	4.80073	436.7471
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	225780	6.20312	564.3296(M)
21 Benzo(k)fluoranthene	252	8.551	8.562	(0.962)	117284	3.14110	285.7620(QM)
22 Benzo(a)pyrene	252	8.833	8.827	(0.994)	140419	3.97177	361.3329
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.045	(1.130)	80151	2.40995	219.2460(M)
25 Dibenzo(a,h)anthracene	278	10.062	10.062	(1.132)	33387	1.02630	93.3681
26 Benzo(g,h,i)perylene	276	10.392	10.398	(1.169)	97515	2.80288	254.9925

QC Flag Legend

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

Data File: 1CC28040.D

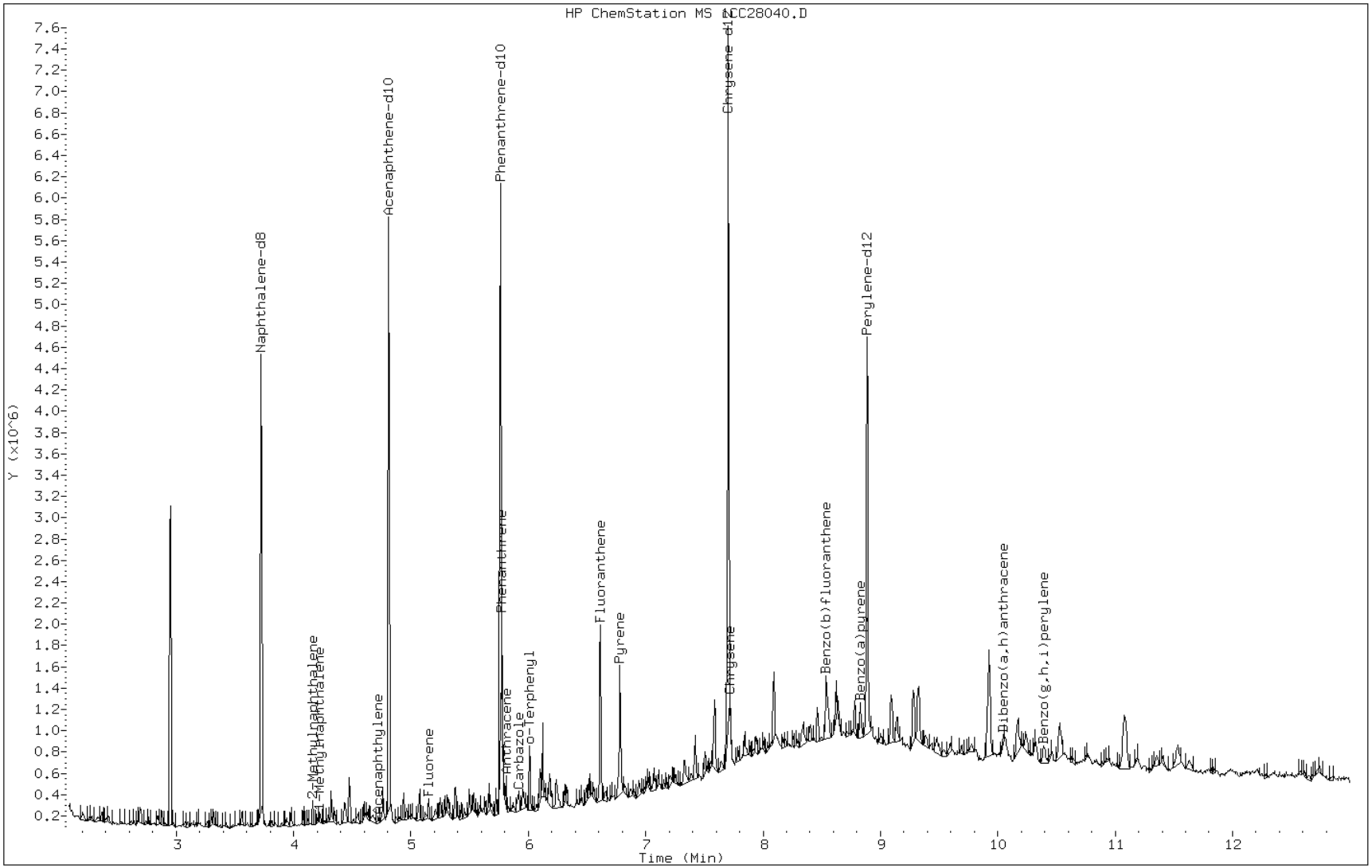
Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a

Operator: SCC



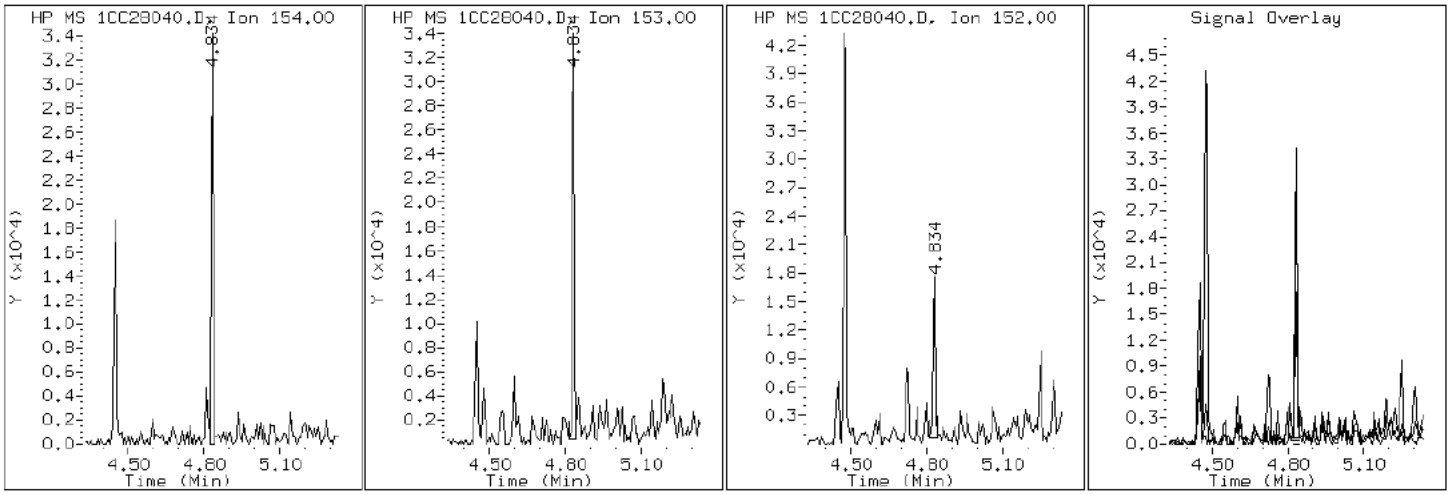
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

7 Acenaphthene



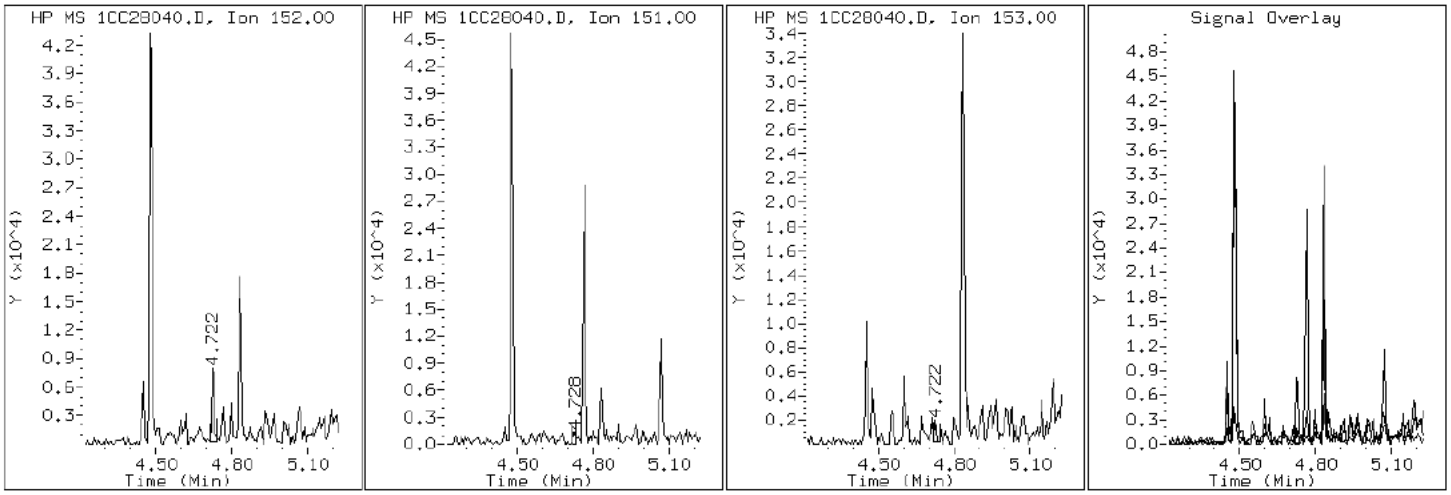
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

5 Acenaphthylene



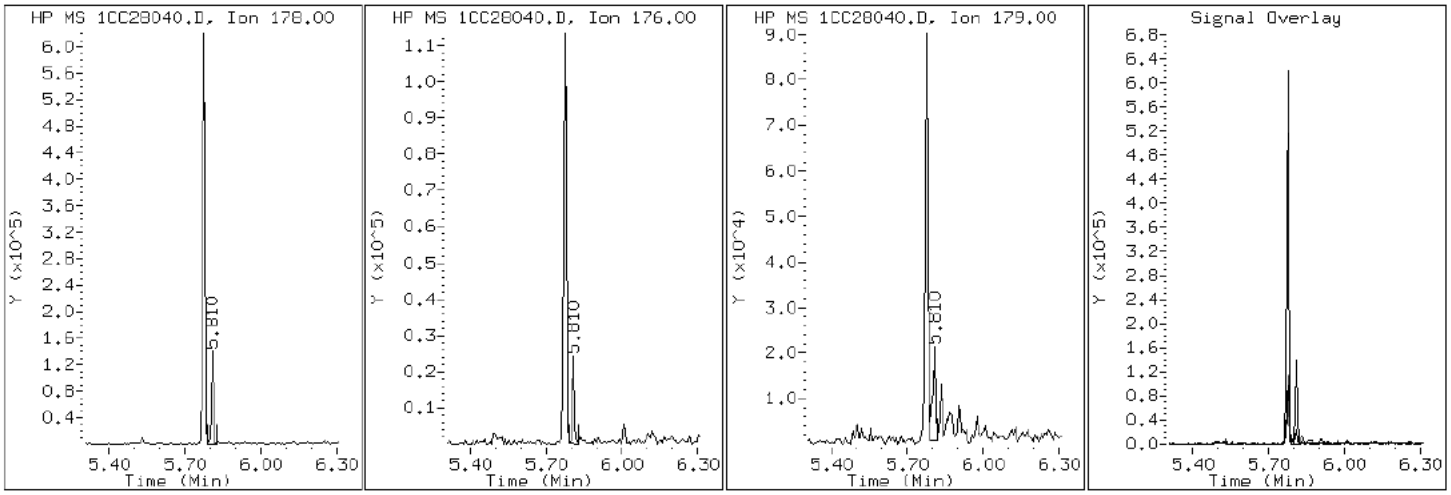
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

12 Anthracene



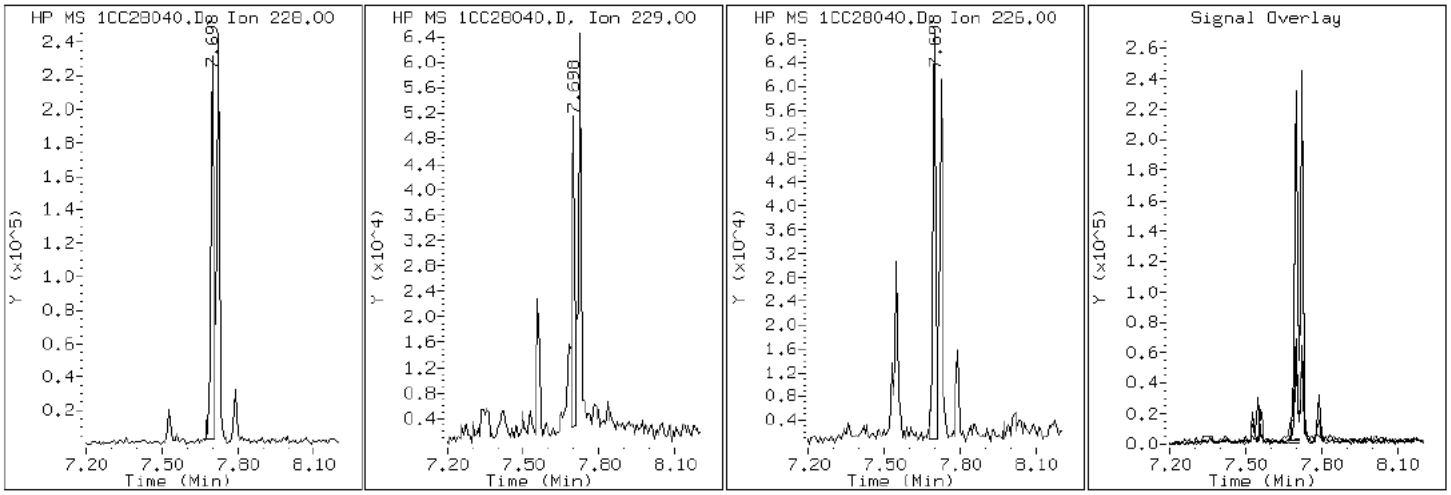
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

17 Benzo(a)anthracene



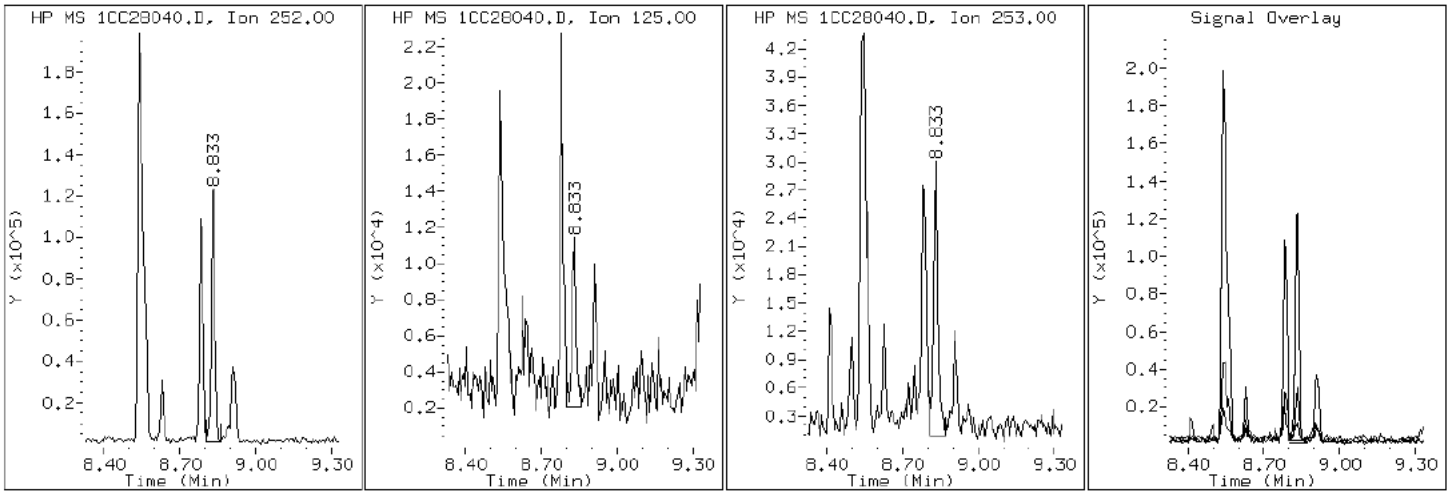
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

22 Benzo(a)pyrene



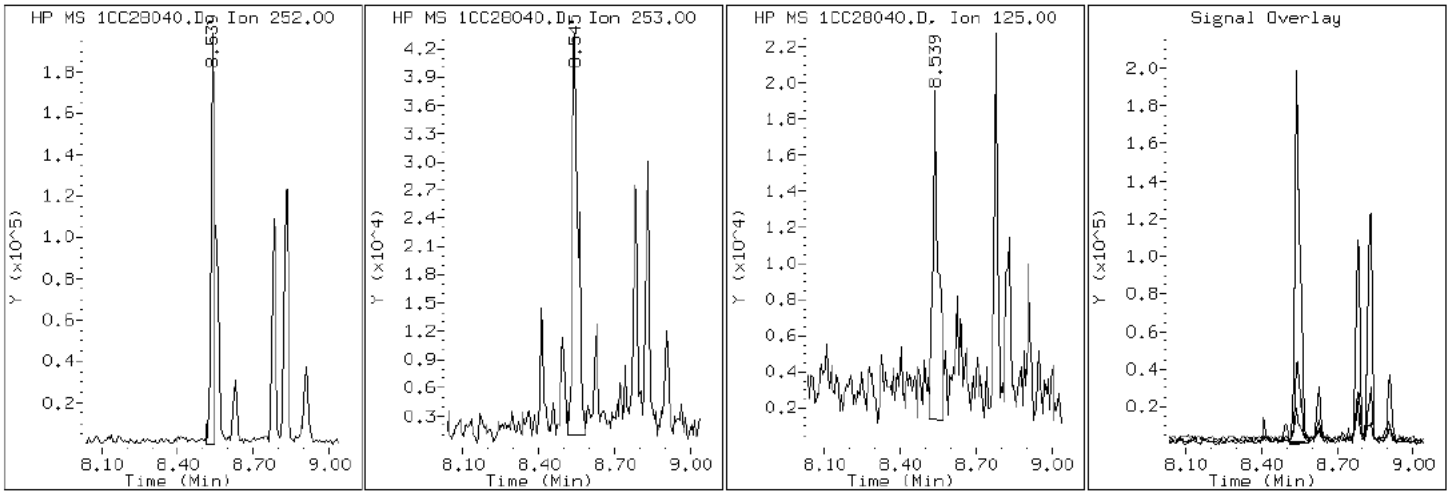
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

20 Benzo(b)fluoranthene



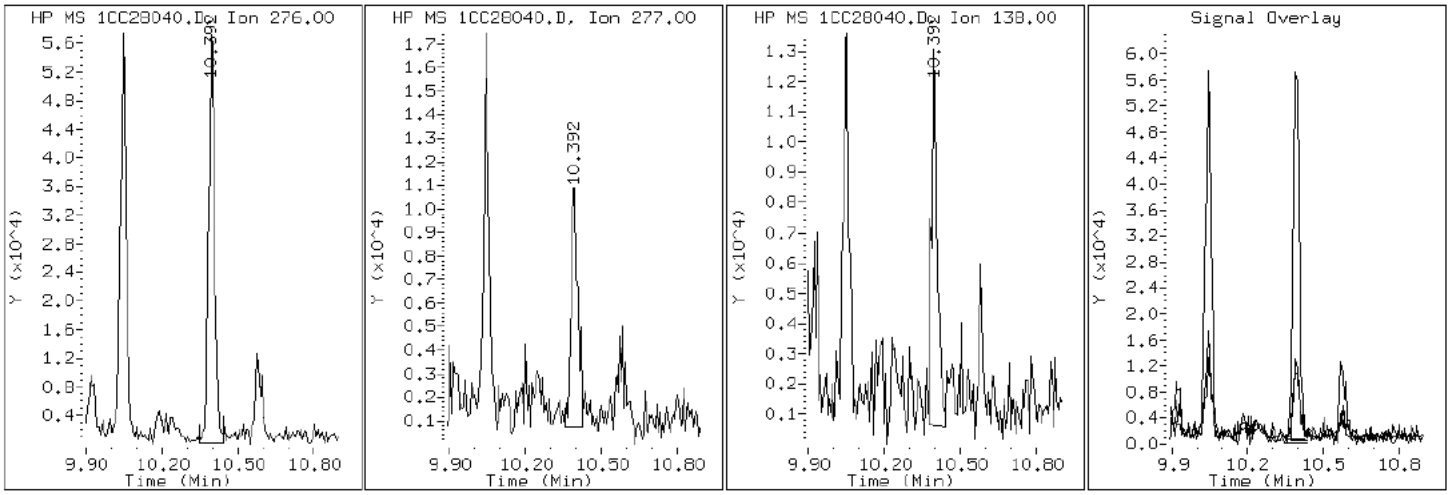
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

26 Benzo(g,h,i)perylene



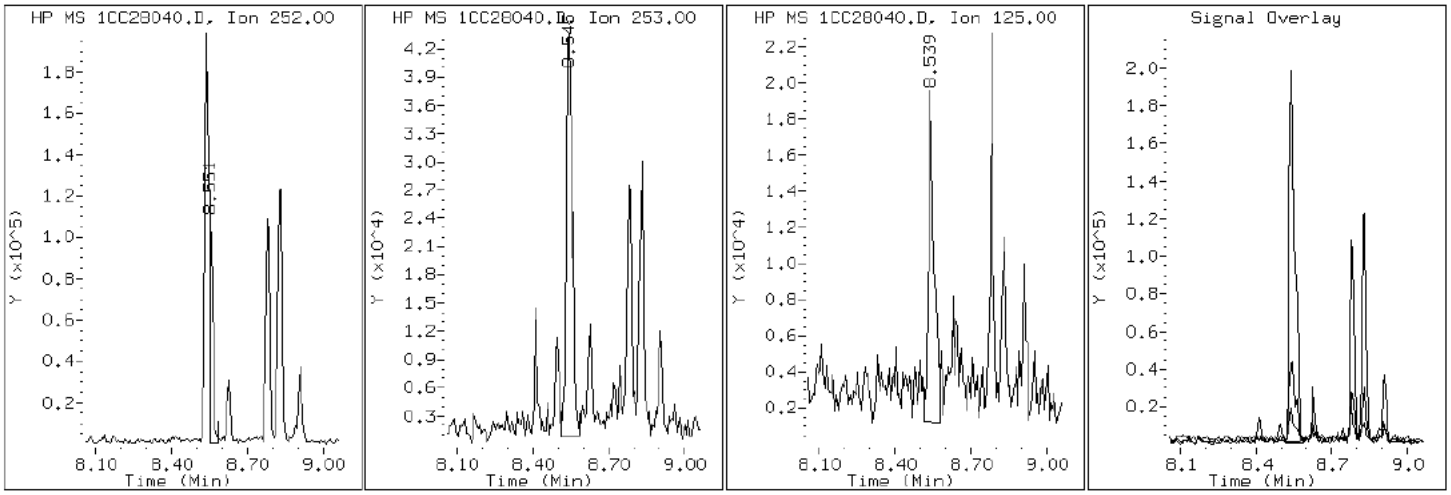
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

21 Benzo(k)fluoranthene



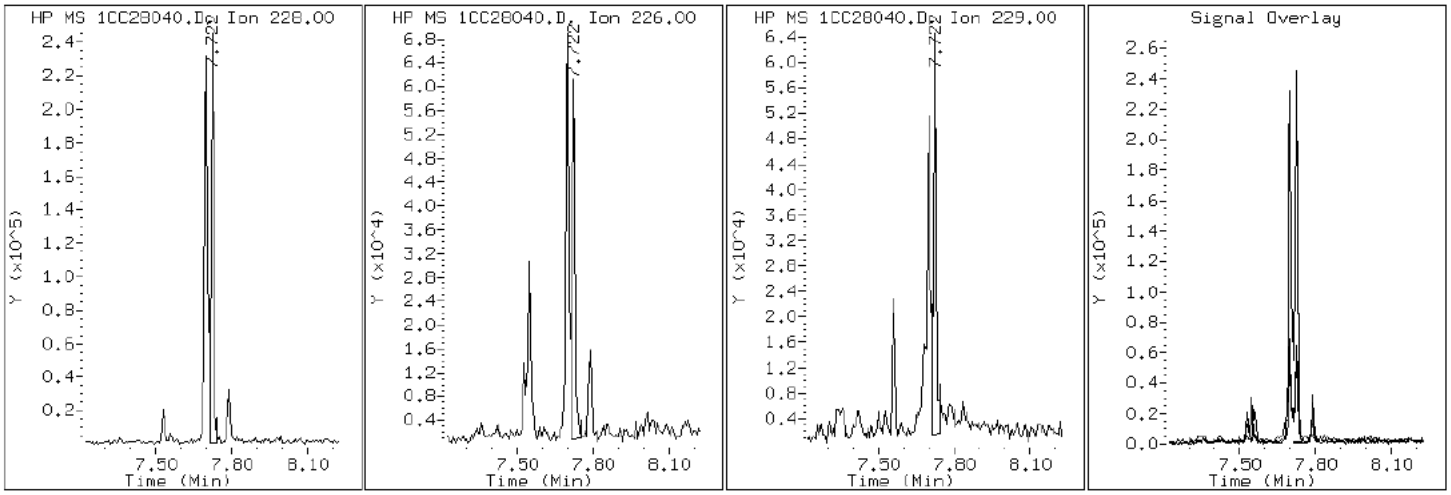
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

19 Chrysene



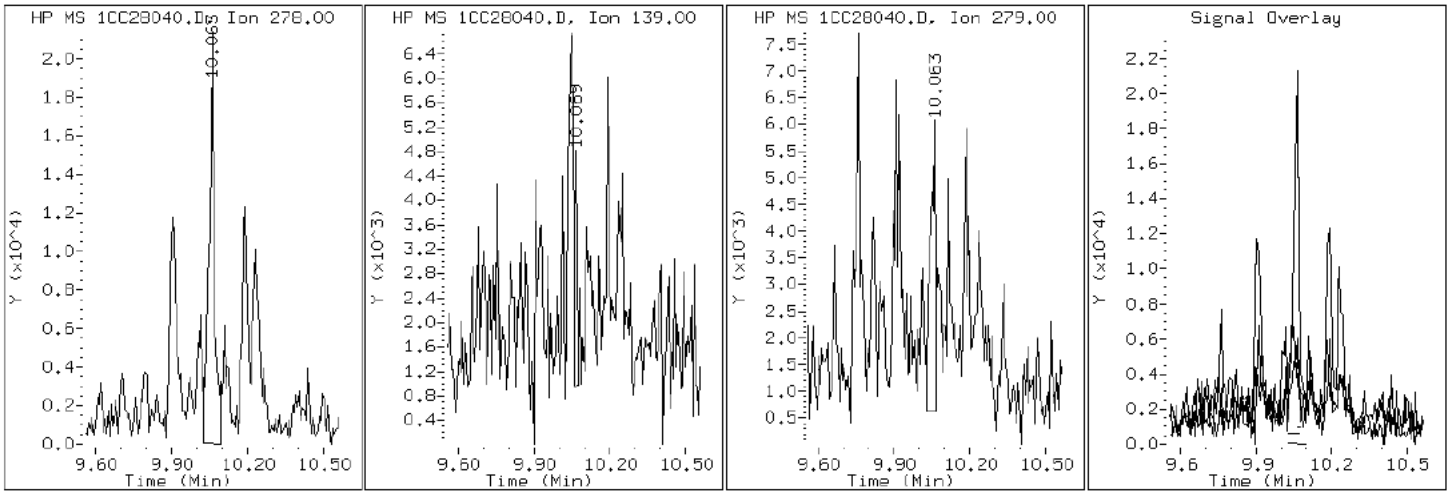
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

25 Dibenzo(a,h)anthracene



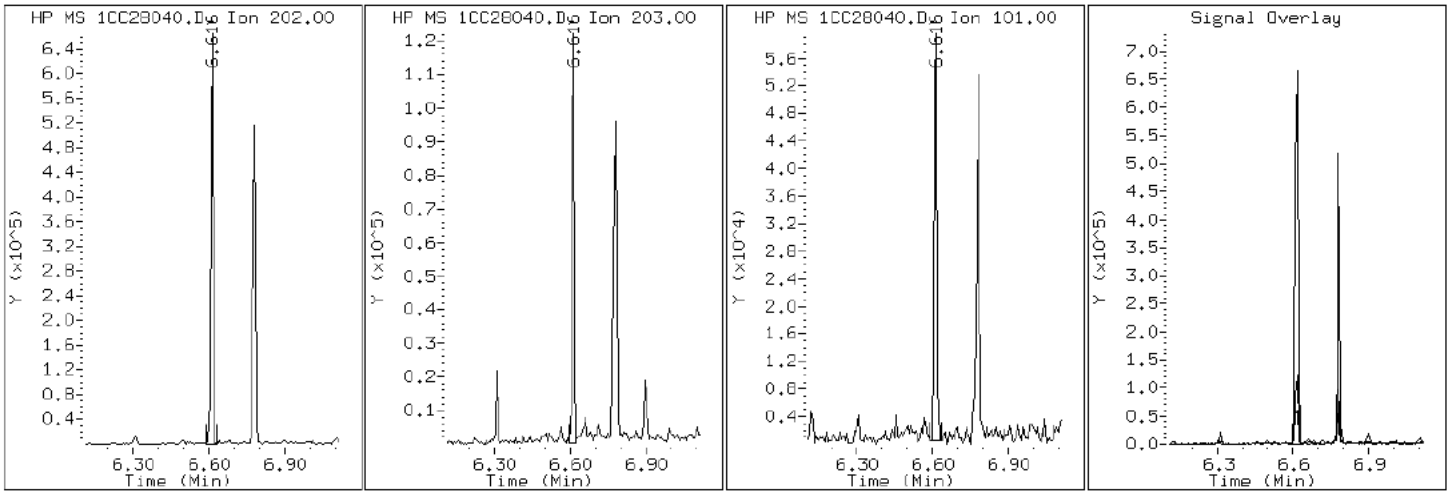
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

15 Fluoranthene



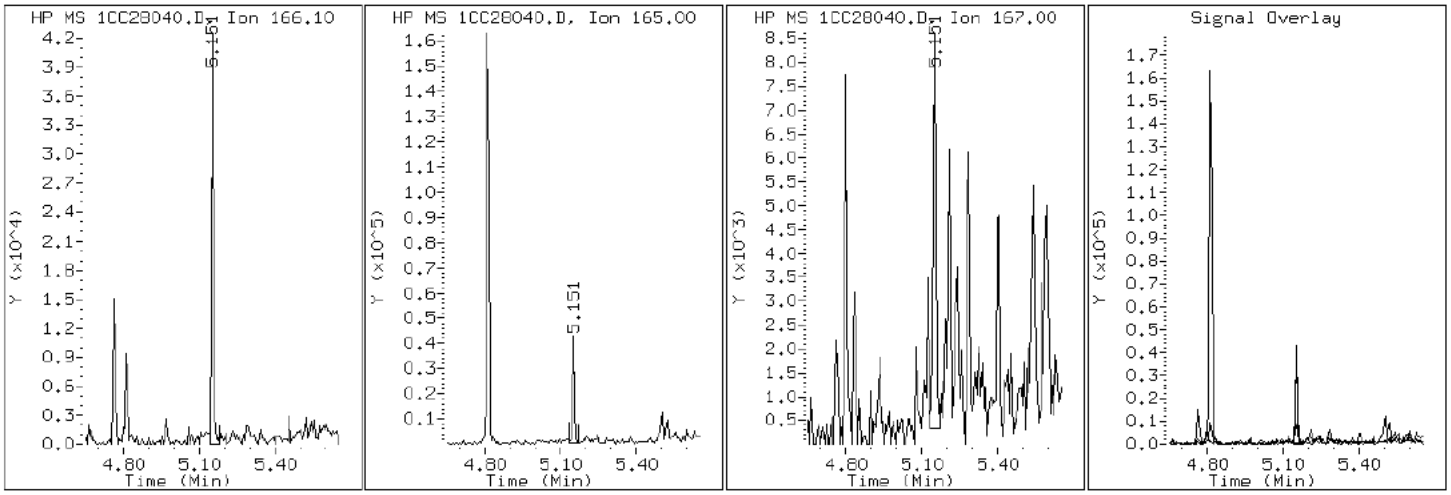
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

9 Fluorene



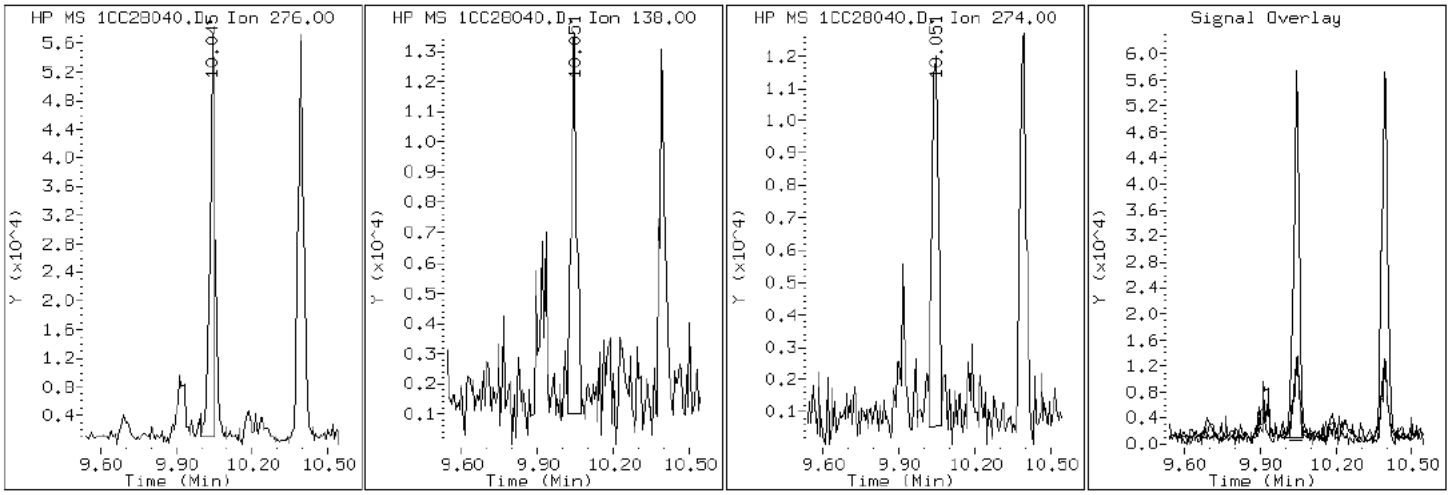
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

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



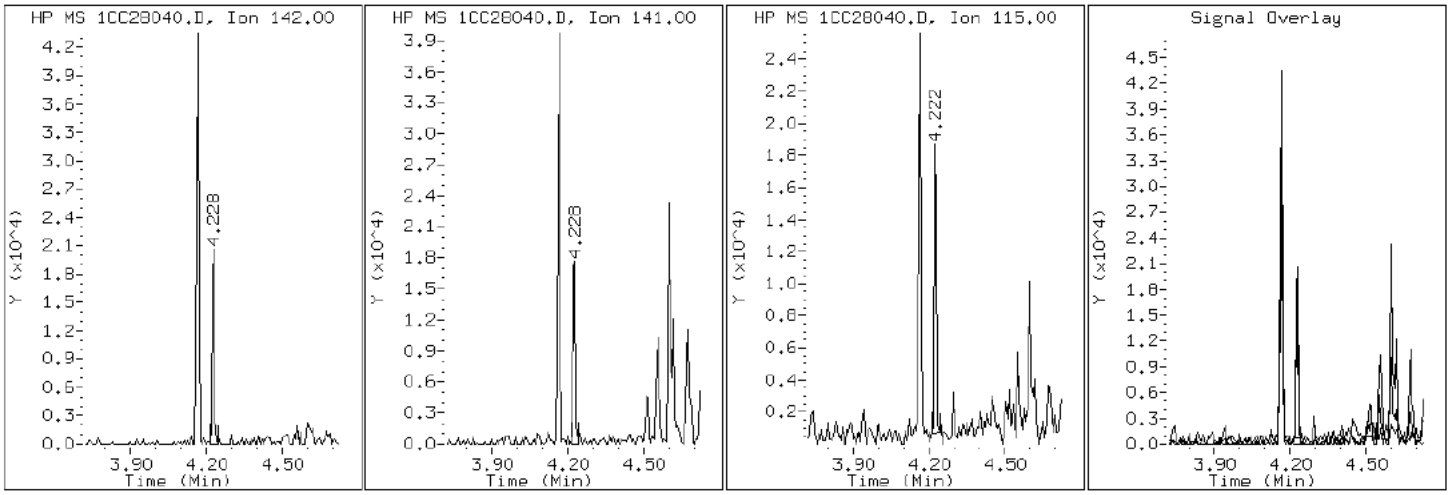
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

4 1-Methylnaphthalene



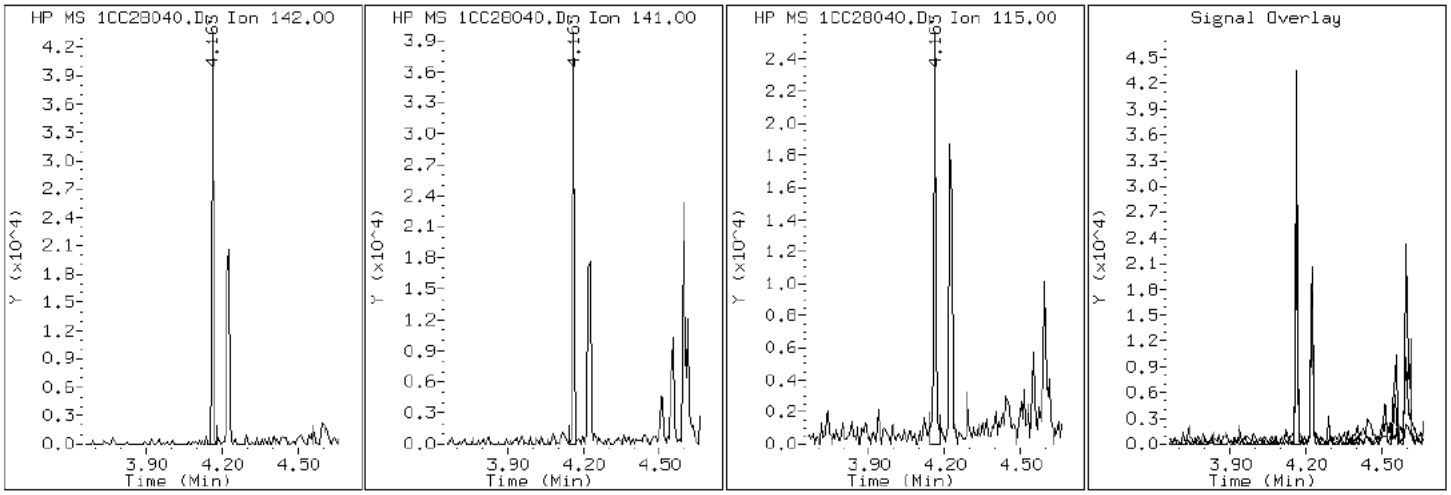
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

3 2-Methylnaphthalene



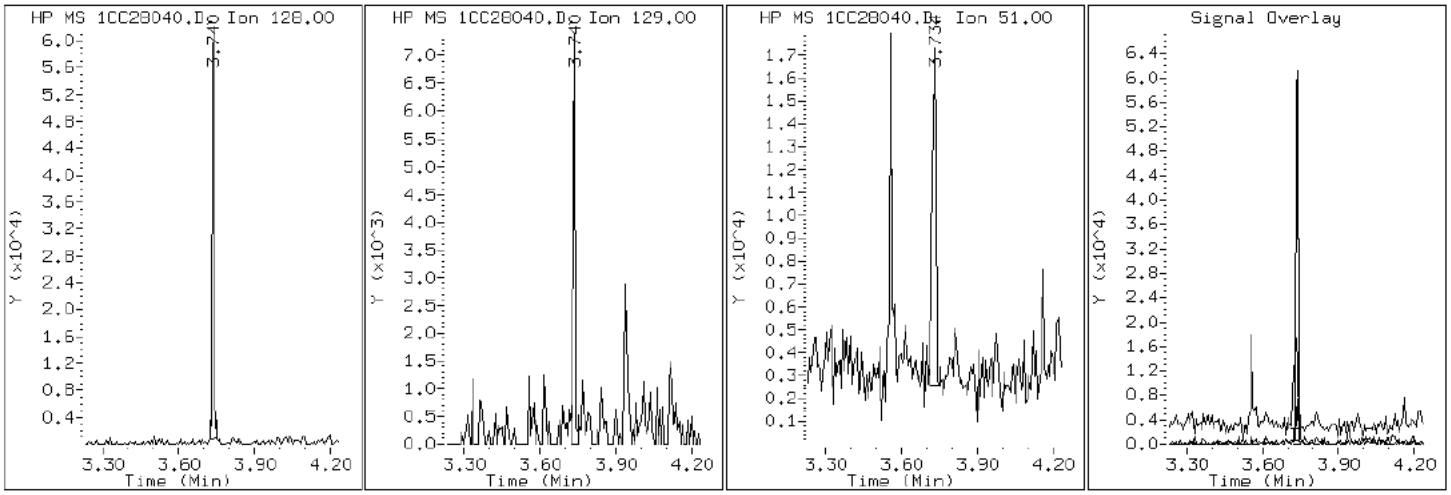
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

2 Naphthalene



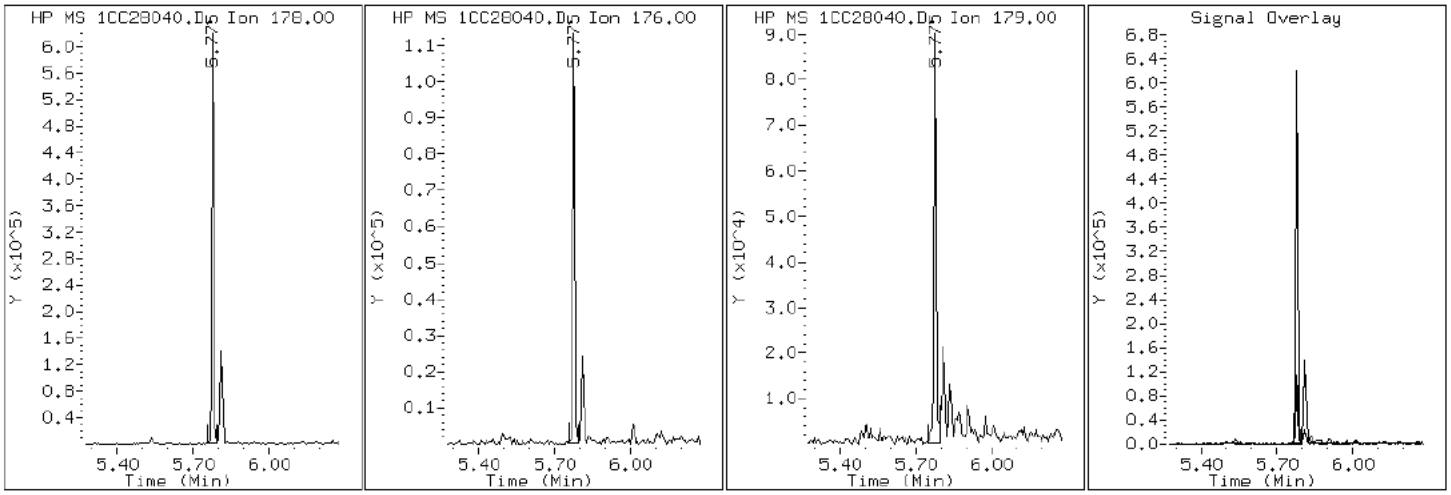
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

11 Phenanthrene



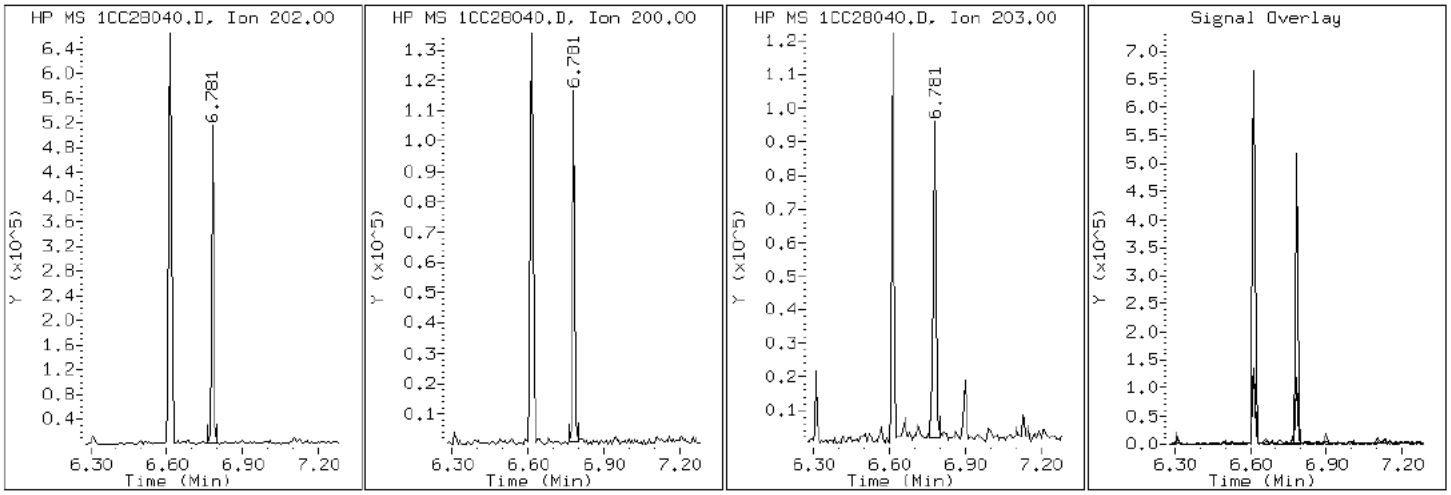
Data File: 1CC28040.D

Date: 28-MAR-2013 23:19

Client ID: CV0566A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-23-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC28040.D
Inj. Date and Time: 28-MAR-2013 23:19
Instrument ID: BSMC5973.i
Client ID: CV0566A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/02/2013

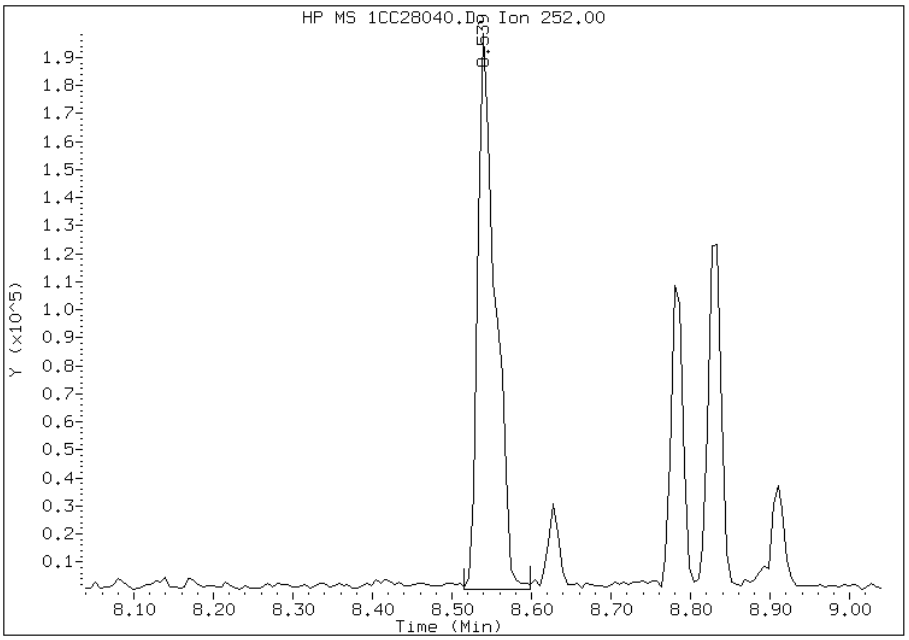
Processing Integration Results

RT: 8.54

Response: 307201

Amount: 8

Conc: 768



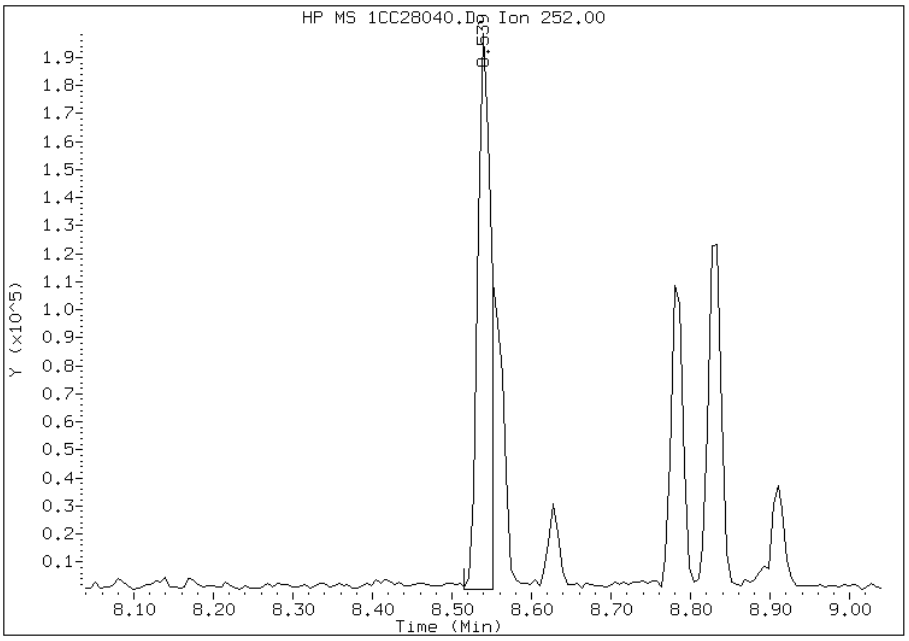
Manual Integration Results

RT: 8.54

Response: 225780

Amount: 6

Conc: 564



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 13:43
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC28040.D
Inj. Date and Time: 28-MAR-2013 23:19
Instrument ID: BSMC5973.i
Client ID: CV0566A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/02/2013

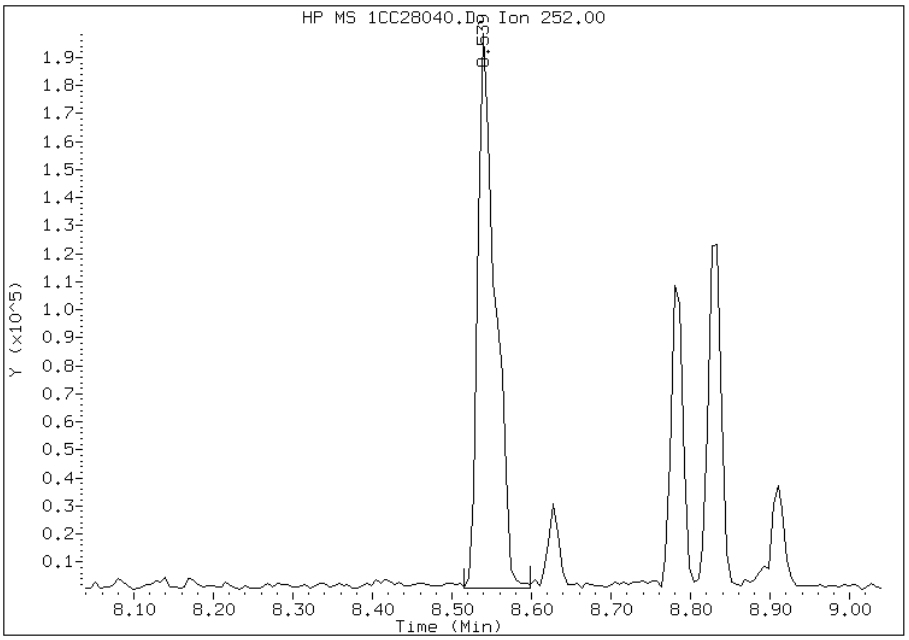
Processing Integration Results

RT: 8.54

Response: 304242

Amount: 8

Conc: 741



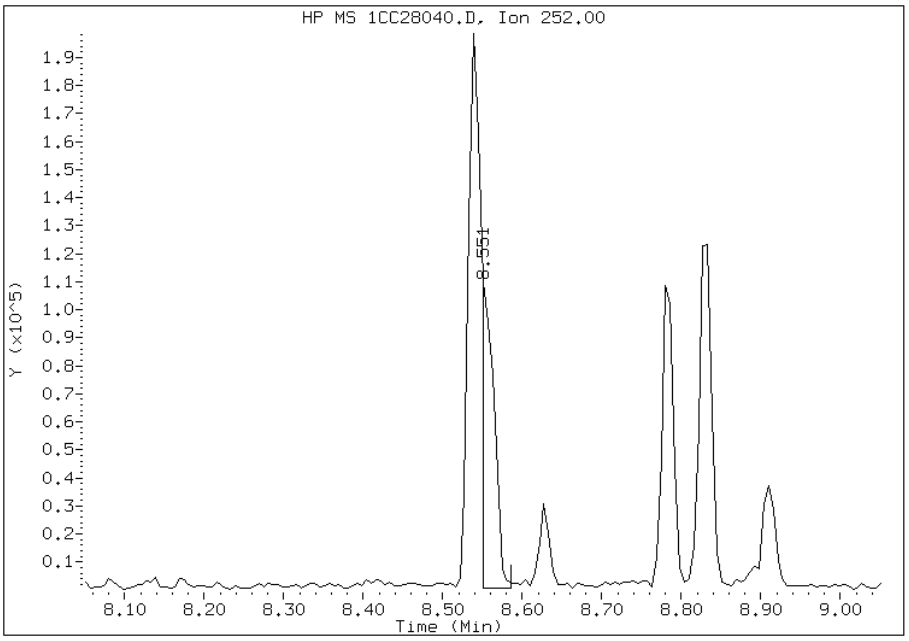
Manual Integration Results

RT: 8.55

Response: 117284

Amount: 3

Conc: 286



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 13:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28040.D
Inj. Date and Time: 28-MAR-2013 23:19
Instrument ID: BSMC5973.i
Client ID: CV0566A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

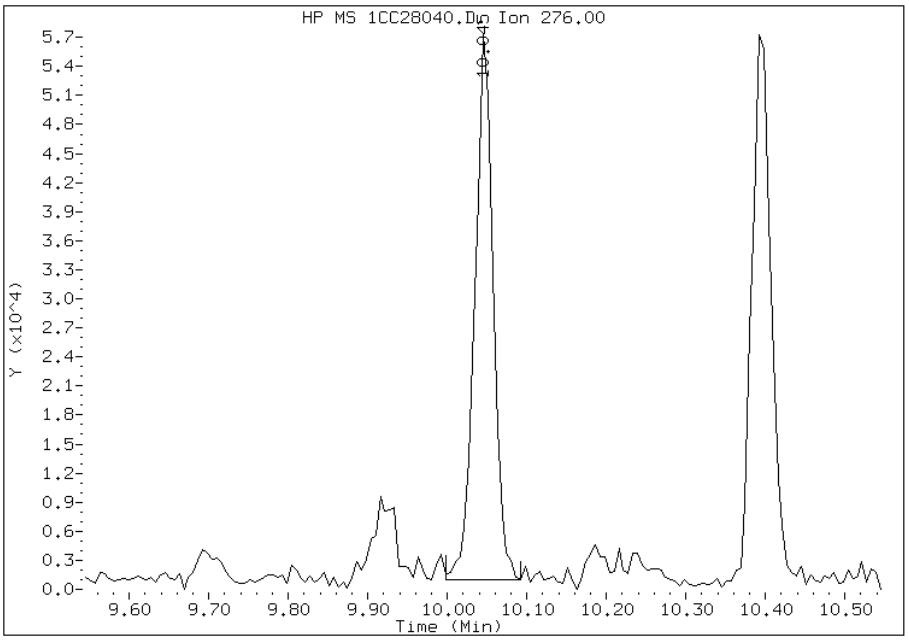
Processing Integration Results

RT: 10.05

Response: 89816

Amount: 3

Conc: 246



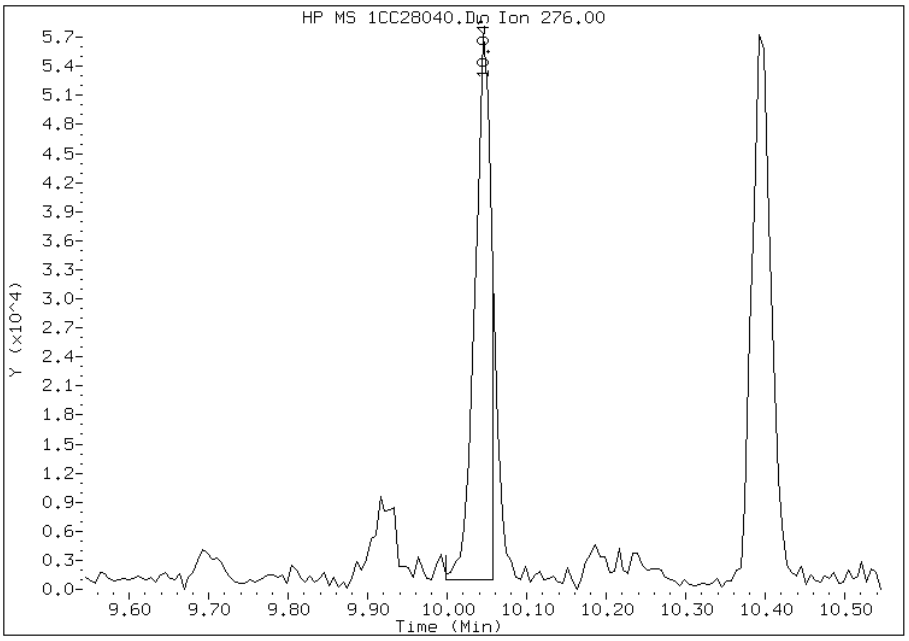
Manual Integration Results

RT: 10.05

Response: 80151

Amount: 2

Conc: 219



Manually Integrated By: cantins
Modification Date: 02-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.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: CV0566B-CS-SP | Lab Sample ID: 680-88632-24

Matrix: Solid | Lab File ID: 1CC28041.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 16:10

Extract. Method: 3546 | Date Extracted: 03/27/2013 11:19

Sample wt/vol: 15.34(g) | Date Analyzed: 03/28/2013 23:37

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

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

% Moisture: 21.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135902 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	24	J	50	6.2
120-12-7	Anthracene	30		10	5.2
56-55-3	Benzo[a]anthracene	160		9.9	4.8
50-32-8	Benzo[a]pyrene	160		13	6.5
205-99-2	Benzo[b]fluoranthene	270		15	7.6
191-24-2	Benzo[g,h,i]perylene	130		25	5.5
207-08-9	Benzo[k]fluoranthene	150		9.9	4.5
218-01-9	Chrysene	160		11	5.6
53-70-3	Dibenz(a,h)anthracene	46		25	5.1
206-44-0	Fluoranthene	290		25	5.0
86-73-7	Fluorene	14	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	120		25	8.8
90-12-0	1-Methylnaphthalene	47	J	50	5.5
91-57-6	2-Methylnaphthalene	79		50	8.8
91-20-3	Naphthalene	100		50	5.5
85-01-8	Phenanthrene	180		9.9	4.8
129-00-0	Pyrene	180		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	40		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28041.D
Lab Smp Id: 680-88632-A-24-A Client Smp ID: CV0566B-CS-SP
Inj Date : 28-MAR-2013 23:37
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-24-a
Misc Info : 680-88632-A-24-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 41
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	15.340	Weight Extracted
M	21.339	% 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	3.721	3.722	(1.000)	976260	40.0000	
* 6 Acenaphthene-d10	164	4.810	4.810	(1.000)	752931	40.0000	
* 10 Phenanthrene-d10	188	5.762	5.763	(1.000)	1363480	40.0000	
$ 14 o-Terphenyl	230	6.009	6.010	(1.043)	81526	3.96022	328.1966
* 18 Chrysene-d12	240	7.703	7.704	(1.000)	2146717	40.0000	
* 23 Perylene-d12	264	8.886	8.886	(1.000)	1305473	40.0000	
2 Naphthalene	128	3.739	3.733	(1.005)	31207	1.22786	101.7569
3 2-Methylnaphthalene	142	4.163	4.163	(1.119)	16149	0.95255	78.9411
4 1-Methylnaphthalene	142	4.227	4.222	(1.136)	8670	0.56151	46.5342
5 Acenaphthylene	152	4.727	4.722	(0.983)	8925	0.29401	24.3658
9 Fluorene	166	5.151	5.151	(1.071)	4123	0.17279	14.3193(Q)
11 Phenanthrene	178	5.774	5.774	(1.002)	85999	2.18129	180.7704
12 Anthracene	178	5.809	5.810	(1.008)	13813	0.35824	29.6883
13 Carbazole	167	5.921	5.921	(1.028)	16448	0.47988	39.7688(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.615	6.616	(1.148)	150903	3.49506	289.6475
16 Pyrene	202	6.780	6.780	(0.880)	128008	2.21890	183.8873
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	118723	1.91617	158.7995
19 Chrysene	228	7.721	7.721	(1.002)	116736	1.88269	156.0246
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	112509	3.29775	273.2957(M)
21 Benzo(k)fluoranthene	252	8.550	8.562	(0.962)	61704	1.76304	146.1090(M)
22 Benzo(a)pyrene	252	8.833	8.827	(0.994)	65574	1.97878	163.9878
24 Indeno(1,2,3-cd)pyrene	276	10.044	10.045	(1.130)	45246	1.45140	120.2821(M)
25 Dibenzo(a,h)anthracene	278	10.068	10.062	(1.133)	17086	0.56033	46.4365(M)
26 Benzo(g,h,i)perylene	276	10.392	10.398	(1.169)	50281	1.54186	127.7786(M)

QC Flag Legend

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

Data File: 1CC28041.D

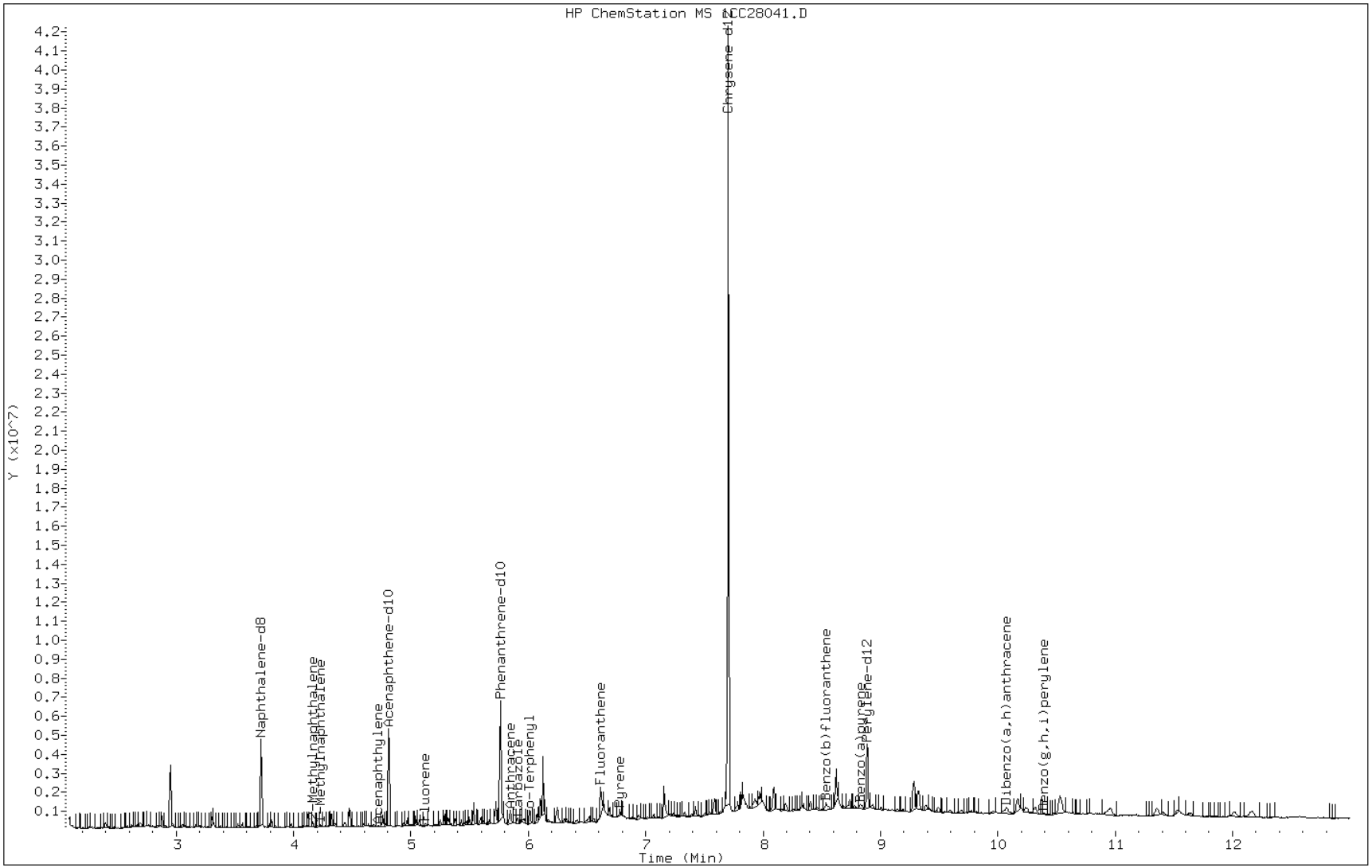
Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a

Operator: SCC



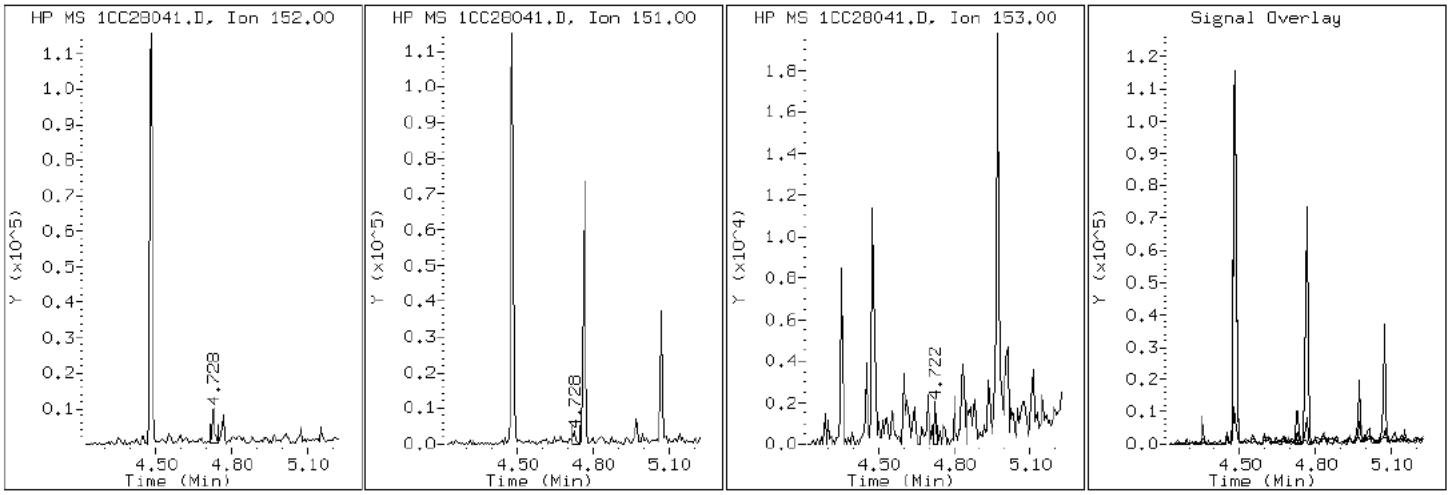
Data File: 1CC28041.D

Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a Operator: SCC

5 Acenaphthylene



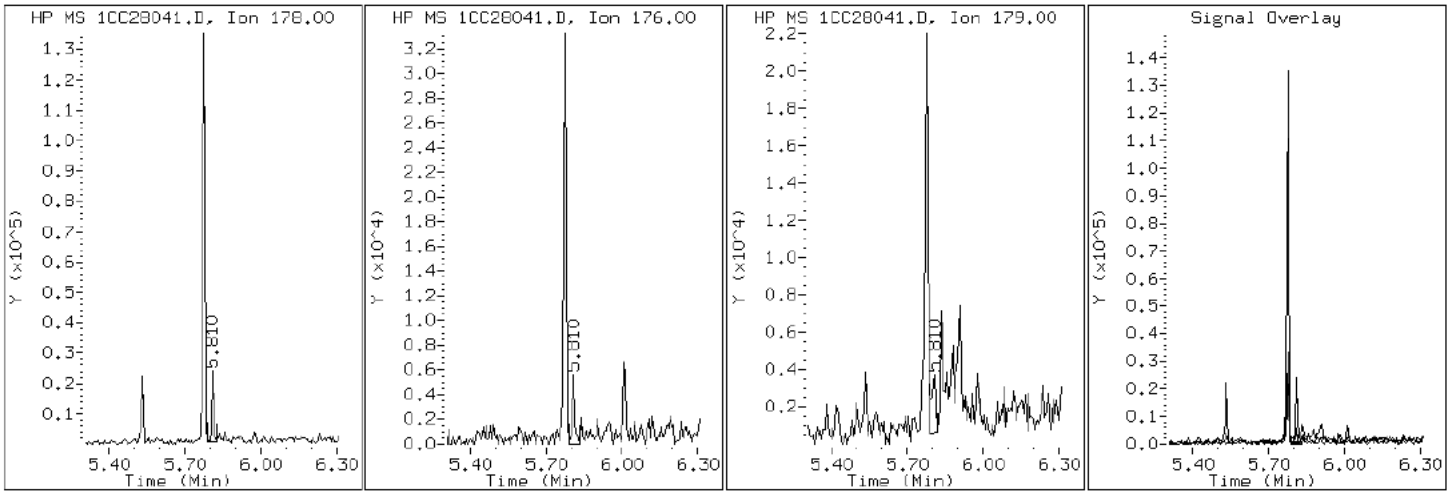
Data File: 1CC28041.D

Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a Operator: SCC

12 Anthracene



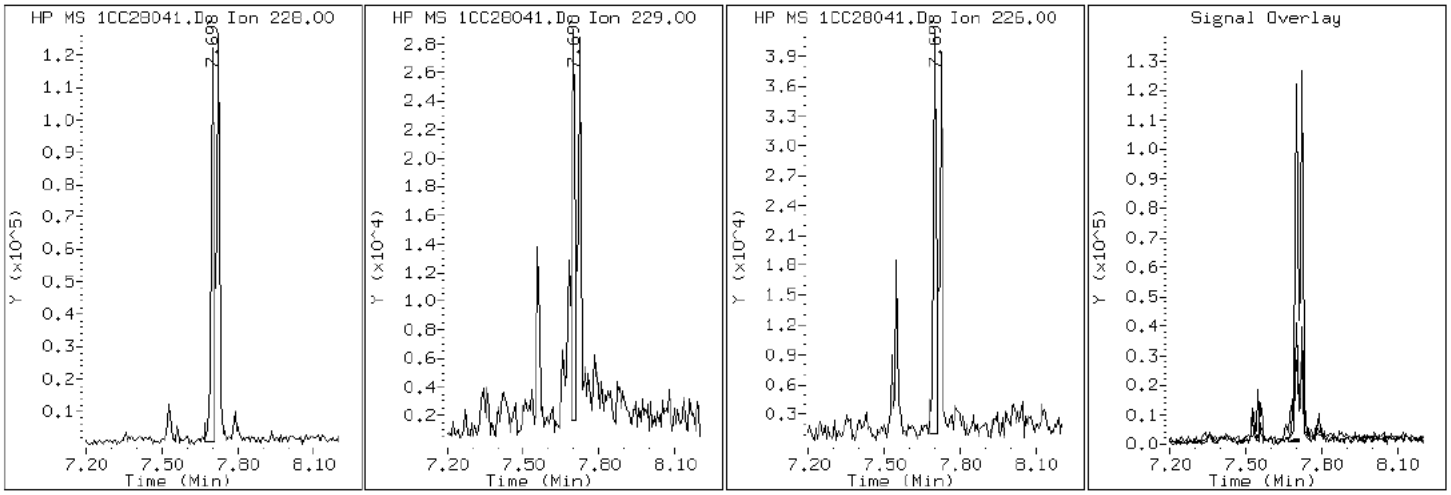
Data File: 1CC28041.D

Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a Operator: SCC

17 Benzo(a)anthracene



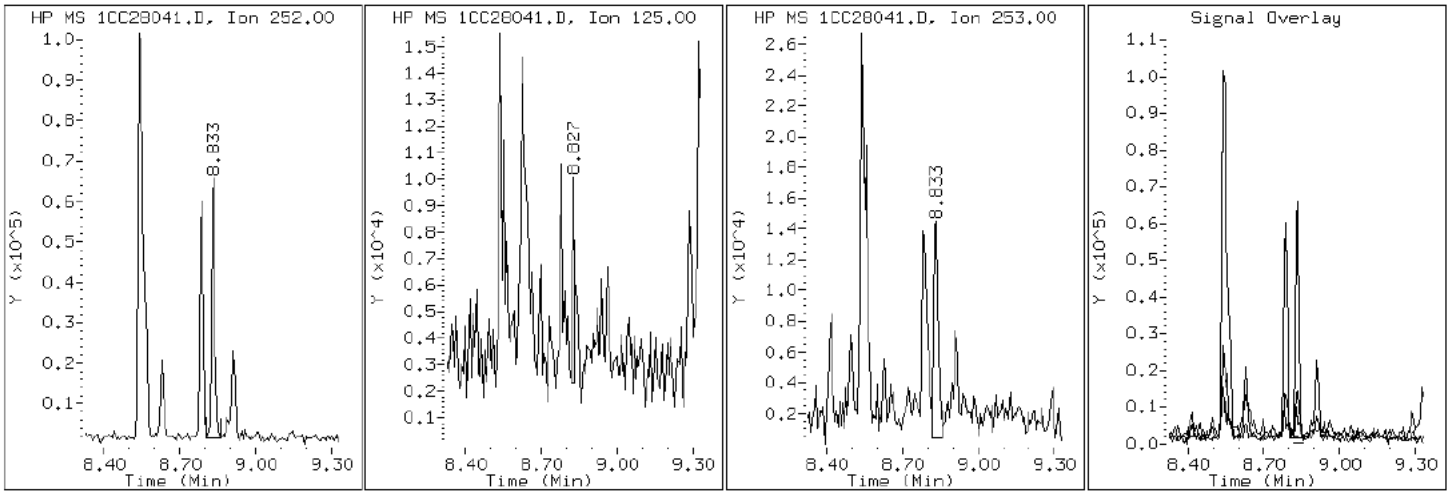
Data File: 1CC28041.D

Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a Operator: SCC

22 Benzo(a)pyrene



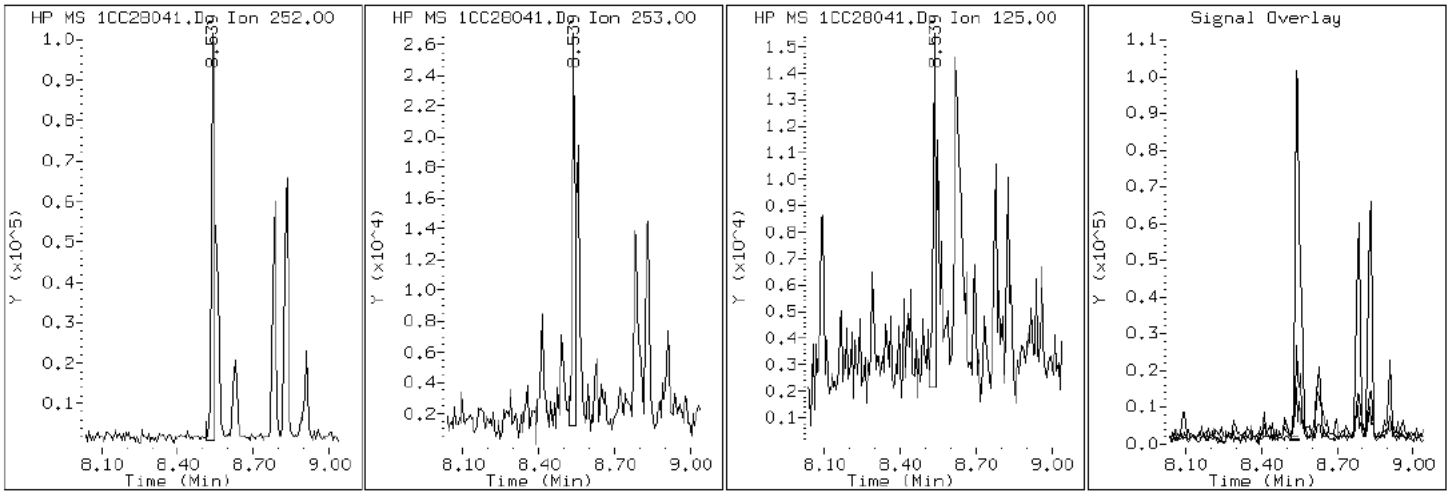
Data File: 1CC28041.D

Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a Operator: SCC

20 Benzo(b)fluoranthene



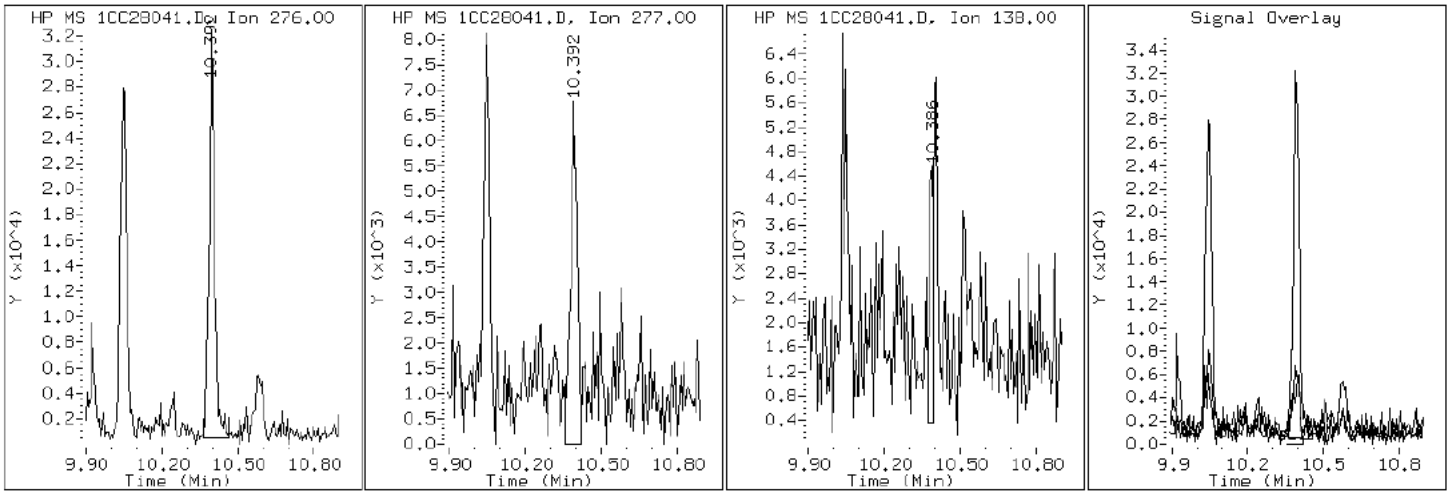
Data File: 1CC28041.D

Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a Operator: SCC

26 Benzo(g,h,i)perylene



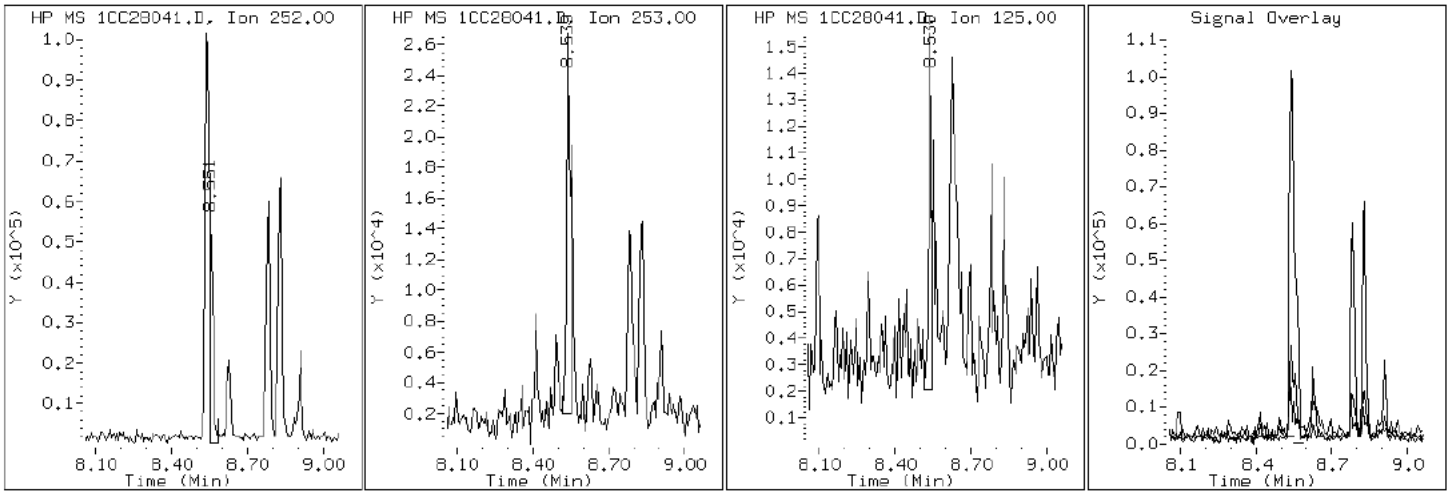
Data File: 1CC28041.D

Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a Operator: SCC

21 Benzo(k)fluoranthene



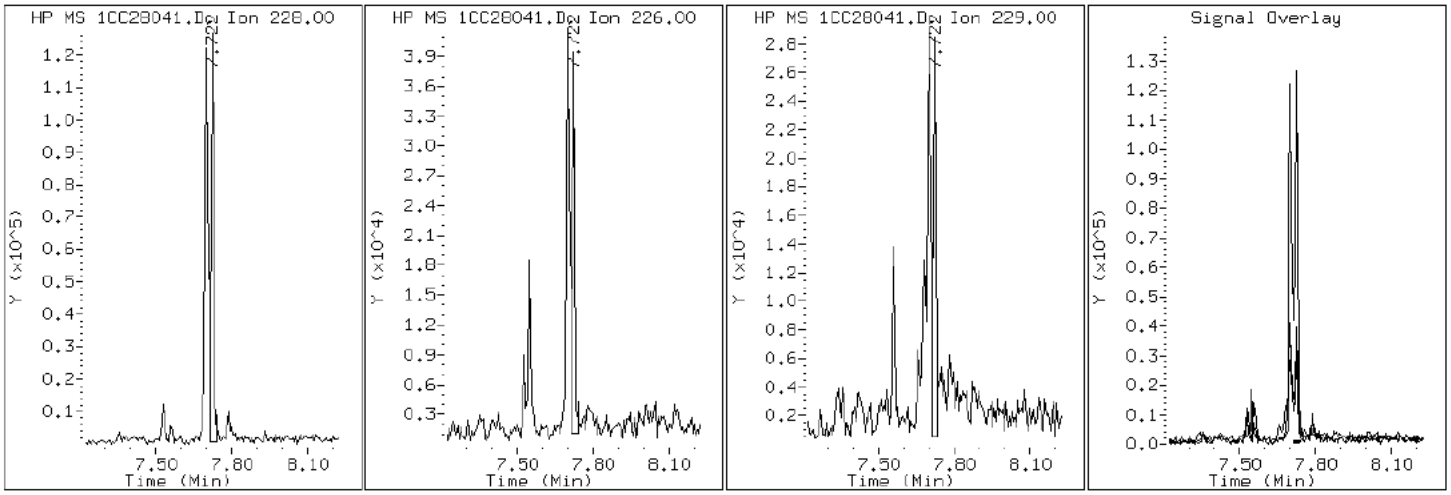
Data File: 1CC28041.D

Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a Operator: SCC

19 Chrysene



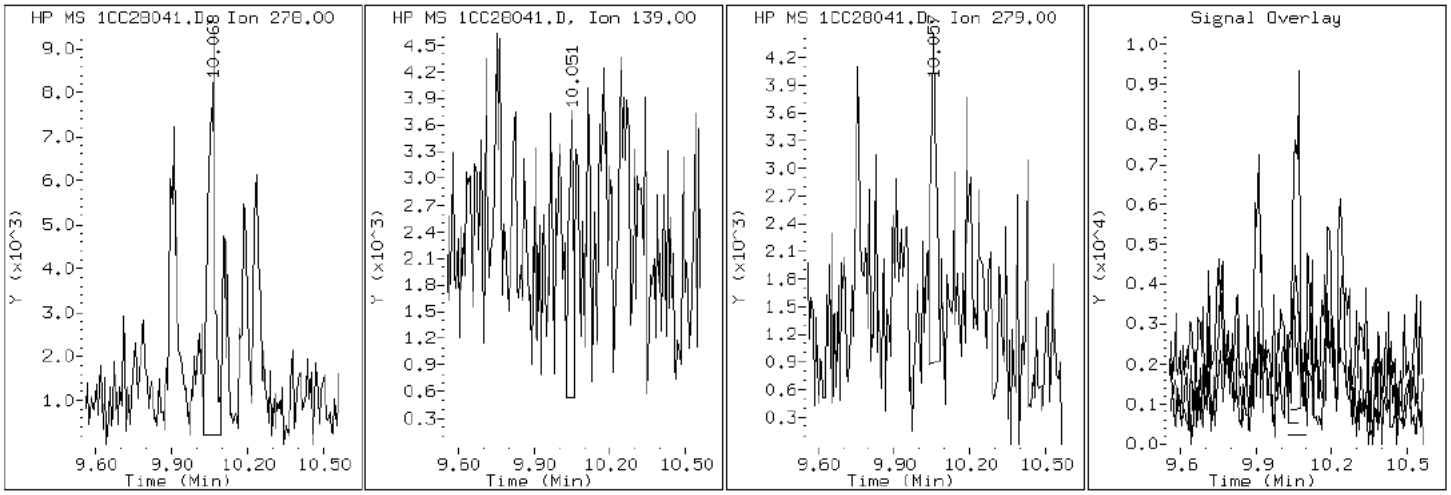
Data File: 1CC28041.D

Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a Operator: SCC

25 Dibenzo(a,h)anthracene



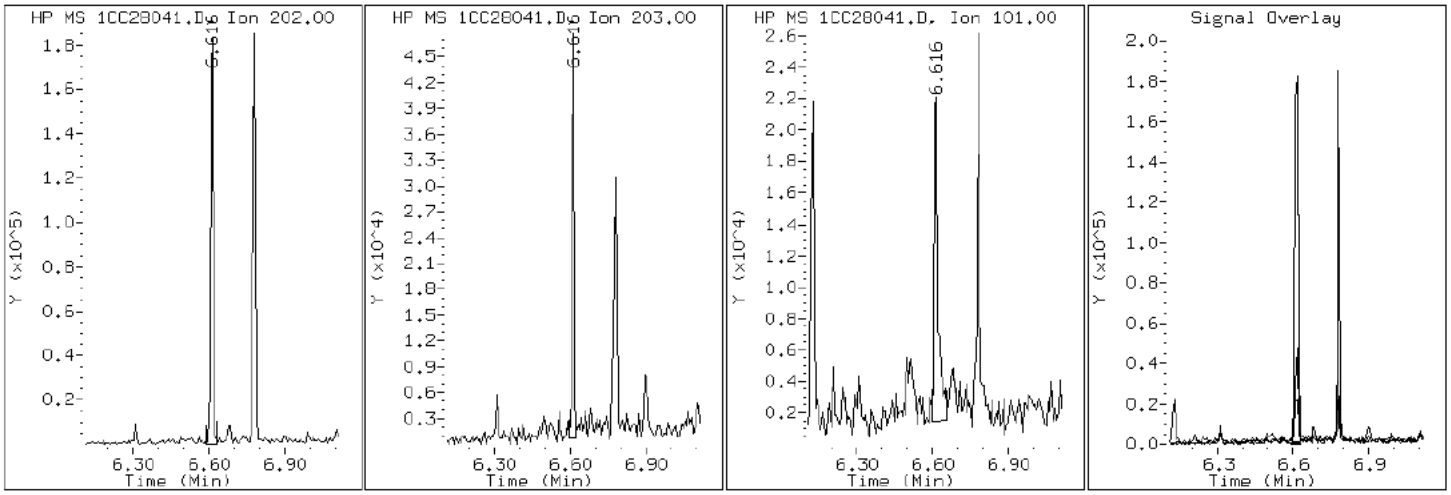
Data File: 1CC28041.D

Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a Operator: SCC

15 Fluoranthene



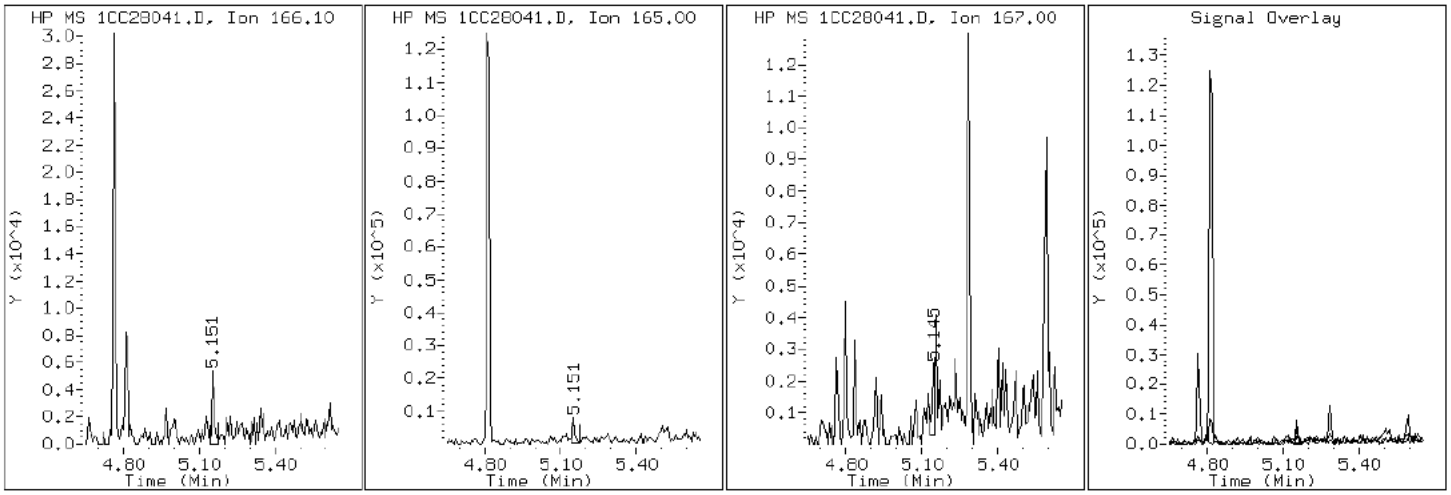
Data File: 1CC28041.D

Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a Operator: SCC

9 Fluorene



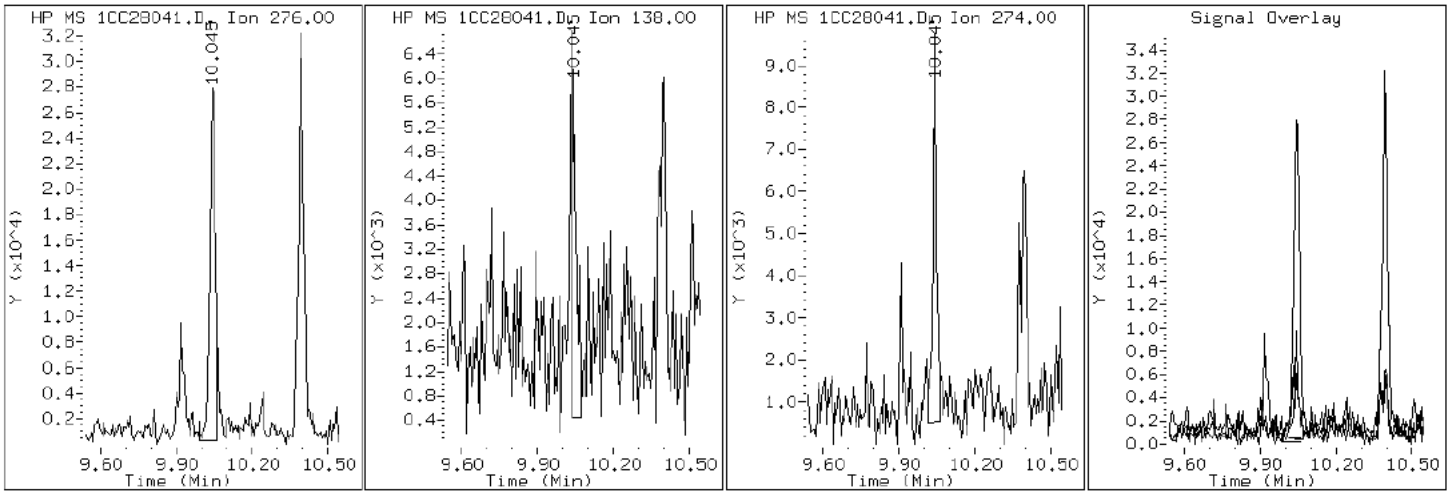
Data File: 1CC28041.D

Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a Operator: SCC

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



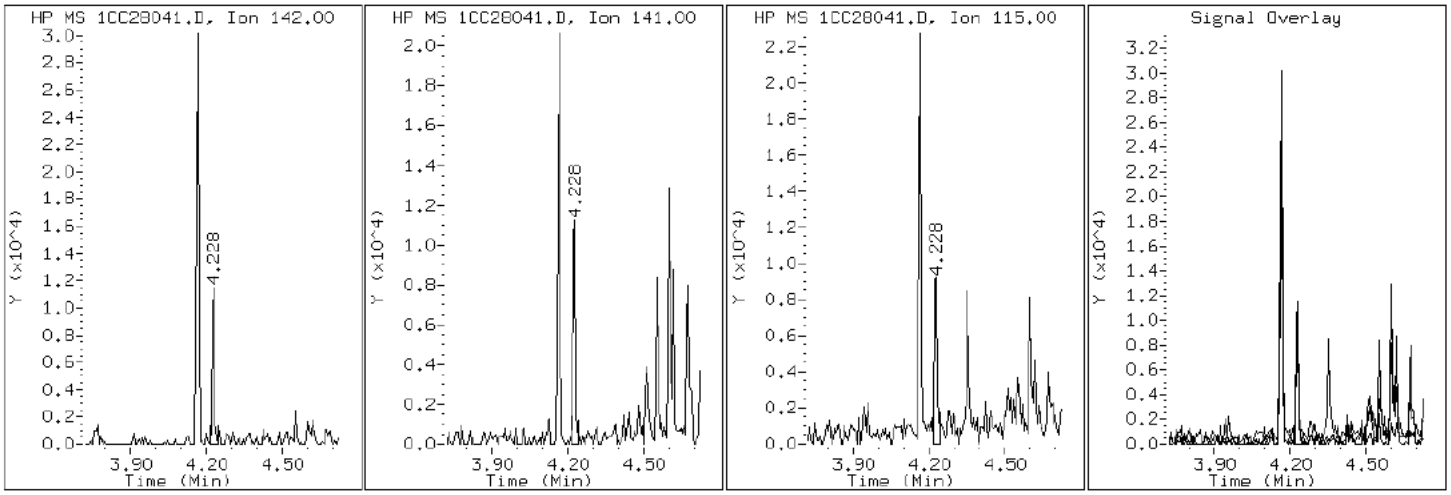
Data File: 1CC28041.D

Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a Operator: SCC

4 1-Methylnaphthalene



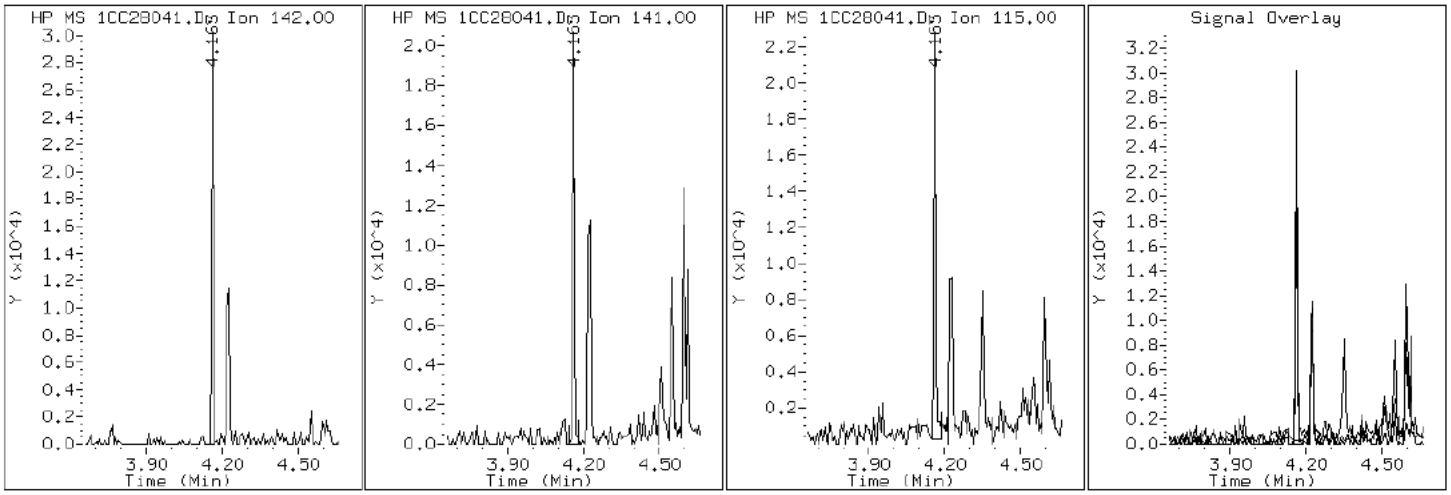
Data File: 1CC28041.D

Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a Operator: SCC

3 2-Methylnaphthalene



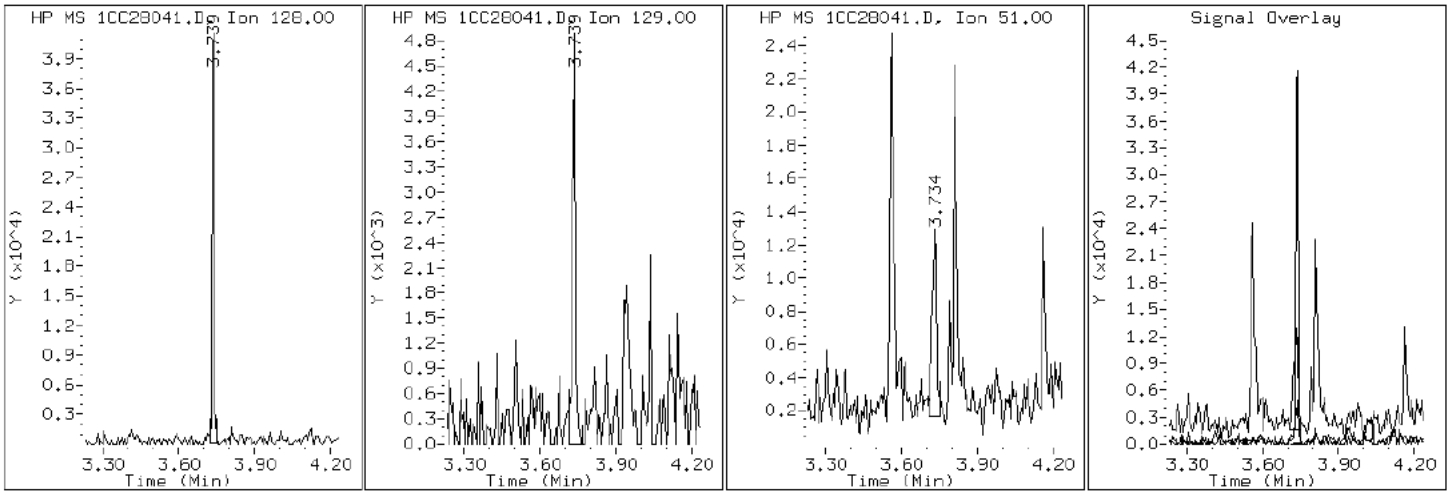
Data File: 1CC28041.D

Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a Operator: SCC

2 Naphthalene



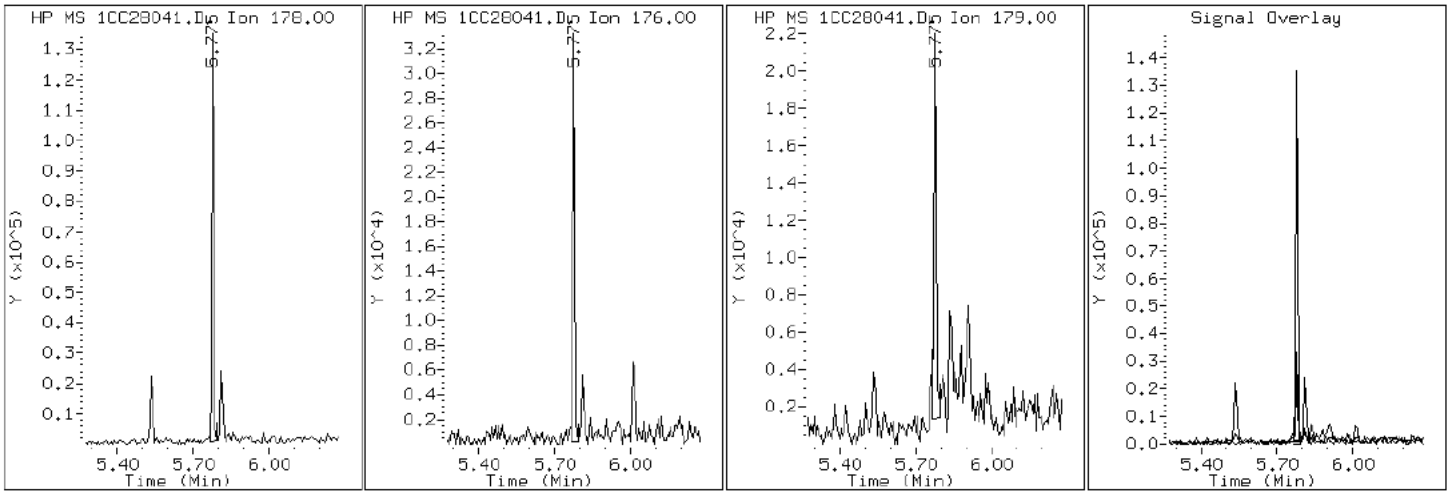
Data File: 1CC28041.D

Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a Operator: SCC

11 Phenanthrene



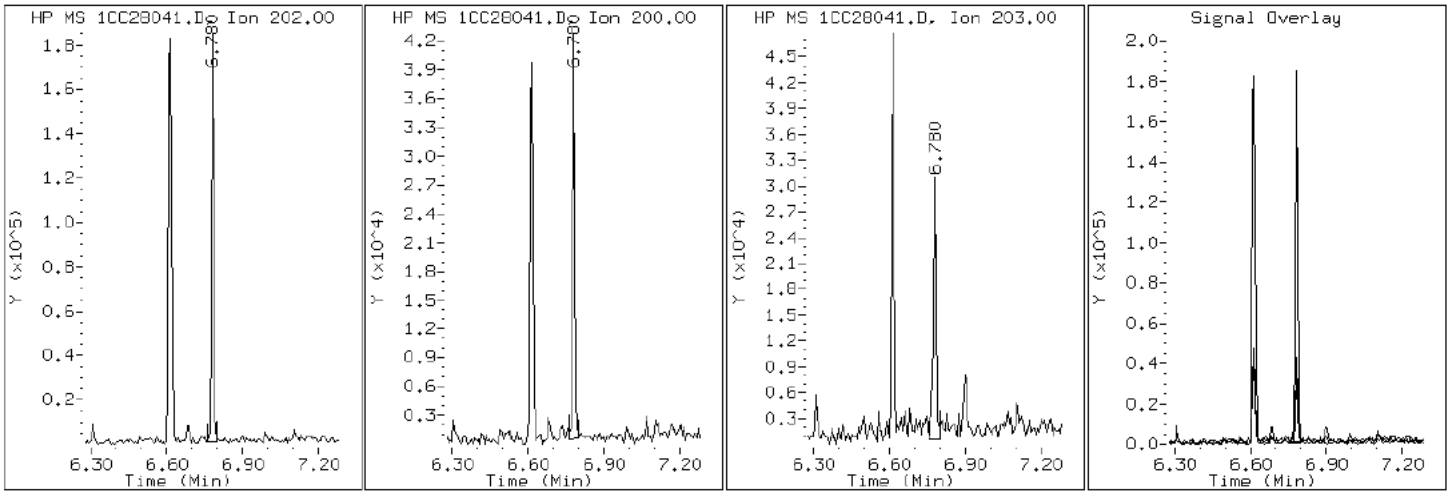
Data File: 1CC28041.D

Date: 28-MAR-2013 23:37

Client ID: CV0566B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-24-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC28041.D
Inj. Date and Time: 28-MAR-2013 23:37
Instrument ID: BSMC5973.i
Client ID: CV0566B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/02/2013

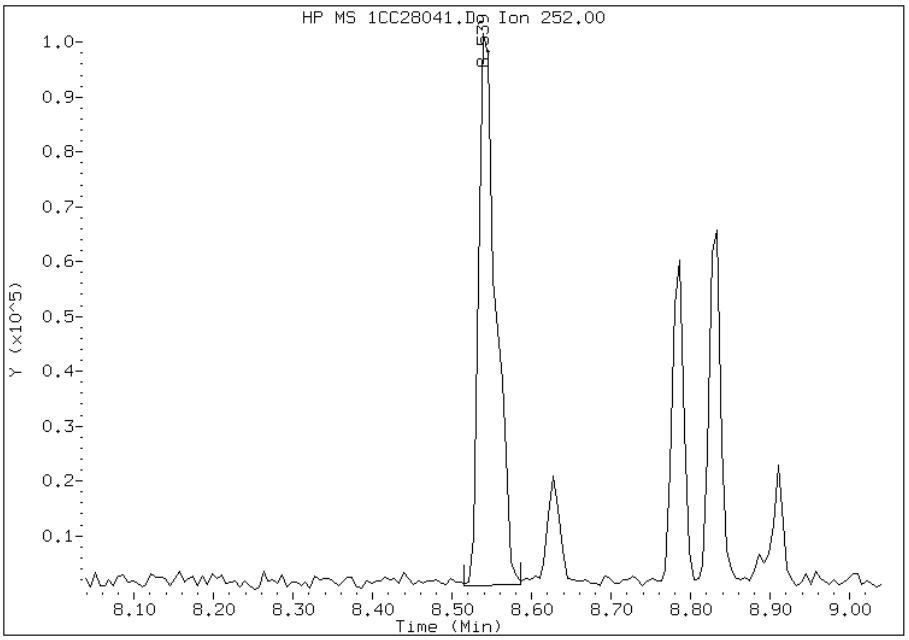
Processing Integration Results

RT: 8.54

Response: 152907

Amount: 4

Conc: 371



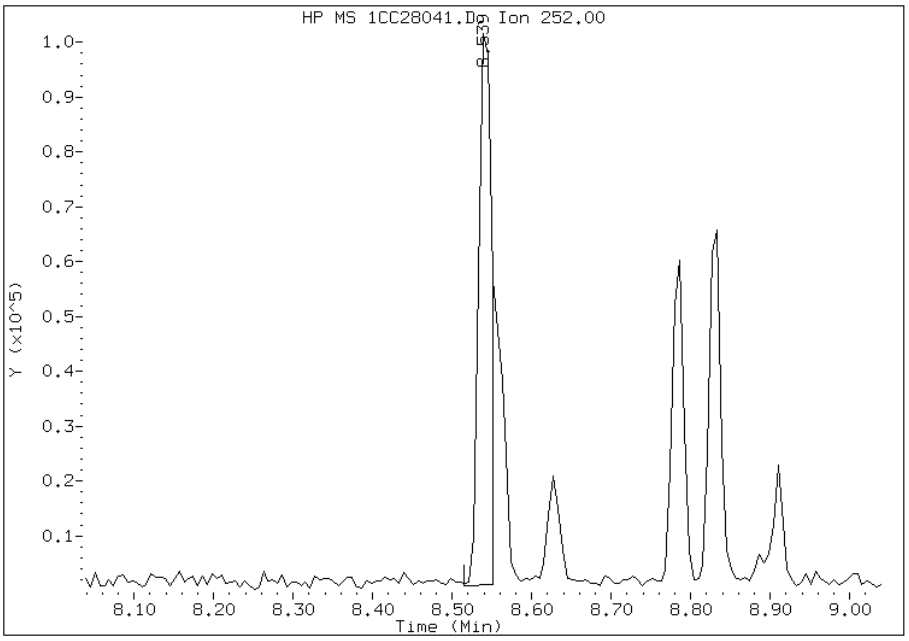
Manual Integration Results

RT: 8.54

Response: 112509

Amount: 3

Conc: 273



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 13:44
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC28041.D
Inj. Date and Time: 28-MAR-2013 23:37
Instrument ID: BSMC5973.i
Client ID: CV0566B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/02/2013

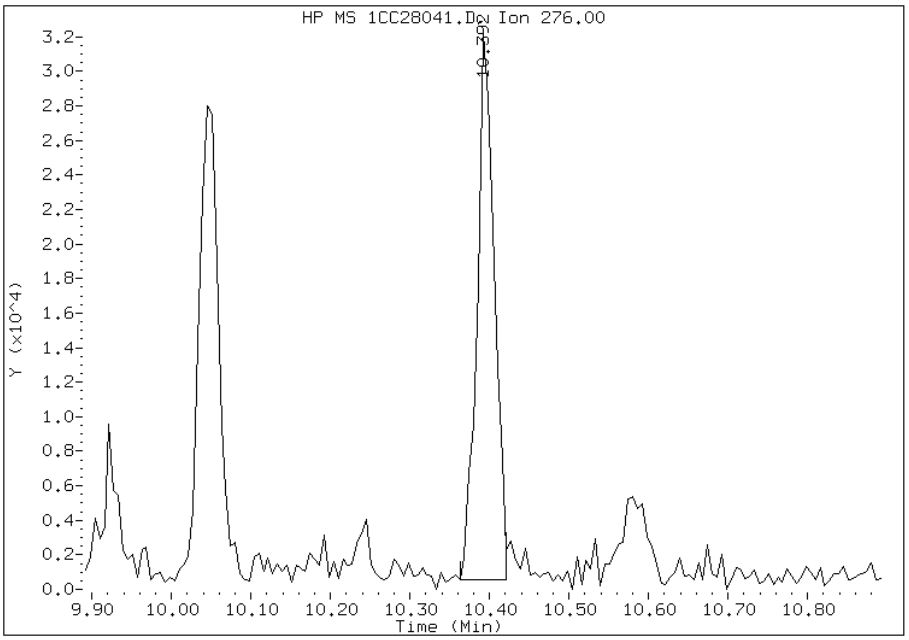
Processing Integration Results

RT: 10.39

Response: 47504

Amount: 1

Conc: 121



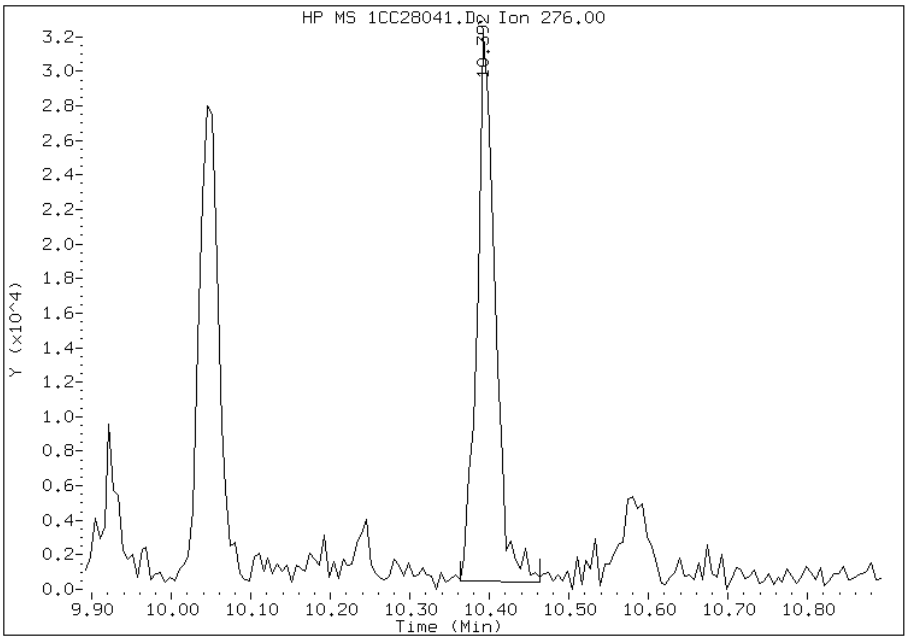
Manual Integration Results

RT: 10.39

Response: 50281

Amount: 2

Conc: 128



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 13:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28041.D
Inj. Date and Time: 28-MAR-2013 23:37
Instrument ID: BSMC5973.i
Client ID: CV0566B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/02/2013

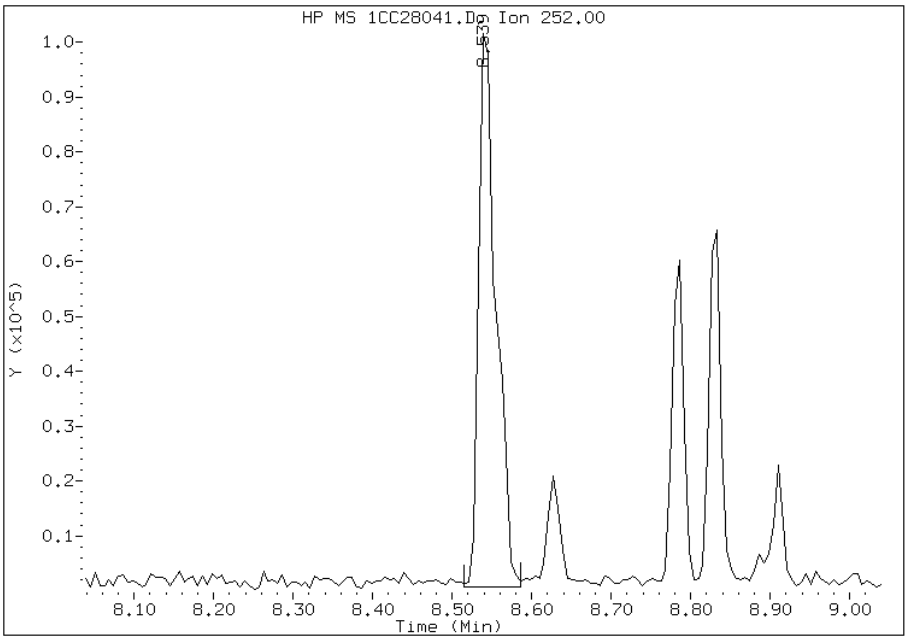
Processing Integration Results

RT: 8.54

Response: 154588

Amount: 4

Conc: 366



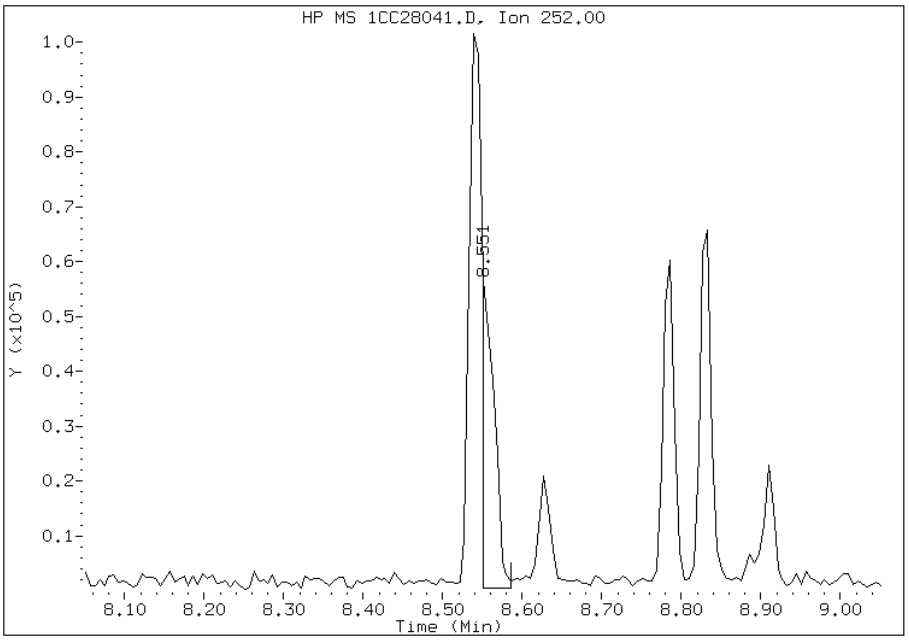
Manual Integration Results

RT: 8.55

Response: 61704

Amount: 2

Conc: 146



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 13:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28041.D
Inj. Date and Time: 28-MAR-2013 23:37
Instrument ID: BSMC5973.i
Client ID: CV0566B-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/02/2013

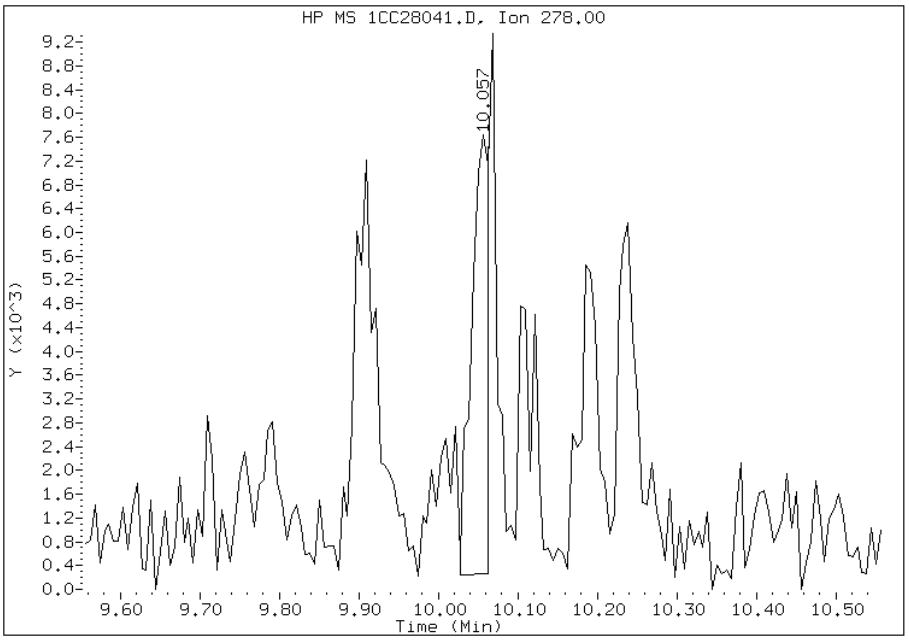
Processing Integration Results

RT: 10.06

Response: 11089

Amount: 0

Conc: 30



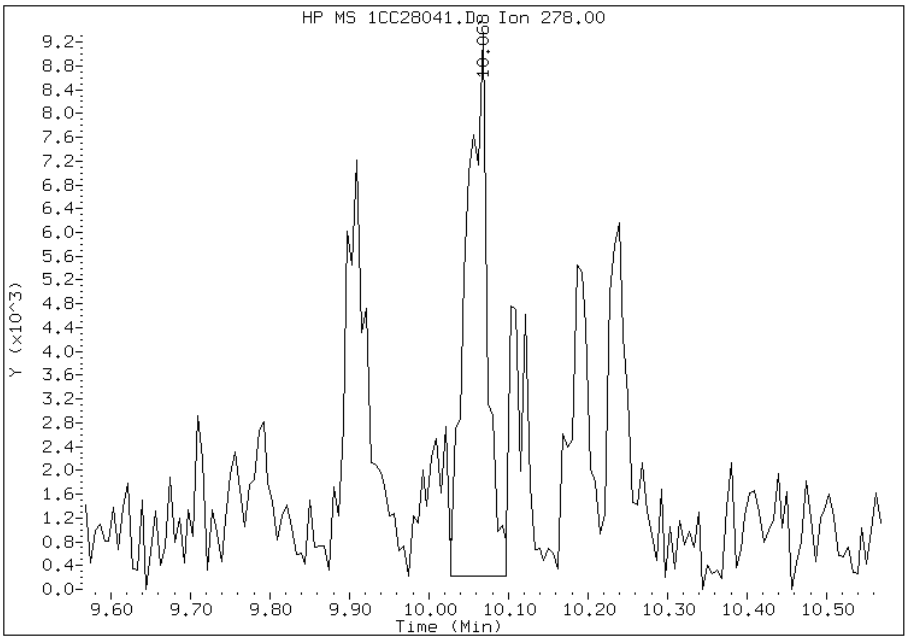
Manual Integration Results

RT: 10.07

Response: 17086

Amount: 1

Conc: 46



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 13:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28041.D
Inj. Date and Time: 28-MAR-2013 23:37
Instrument ID: BSMC5973.i
Client ID: CV0566B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

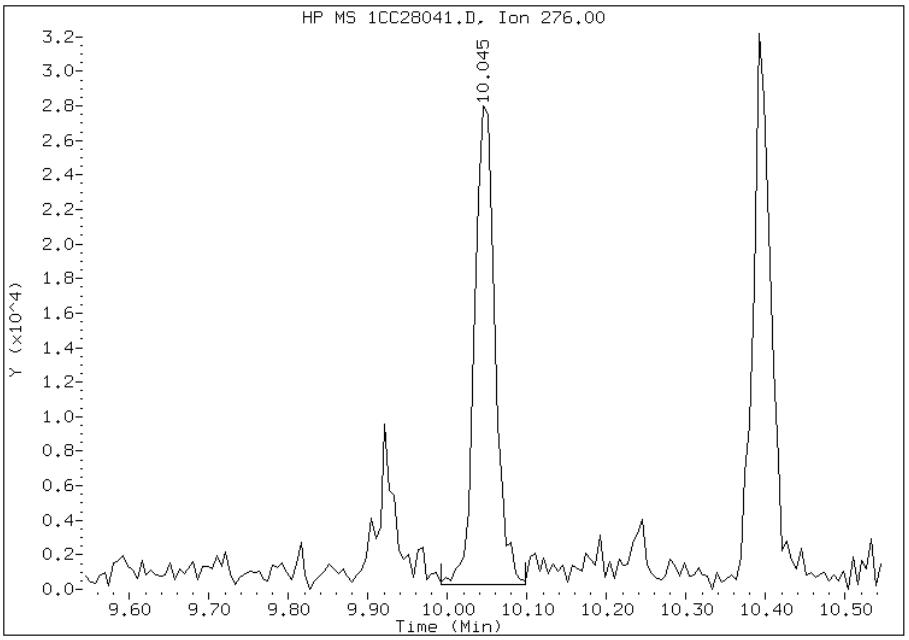
Processing Integration Results

RT: 10.04

Response: 49280

Amount: 2

Conc: 131



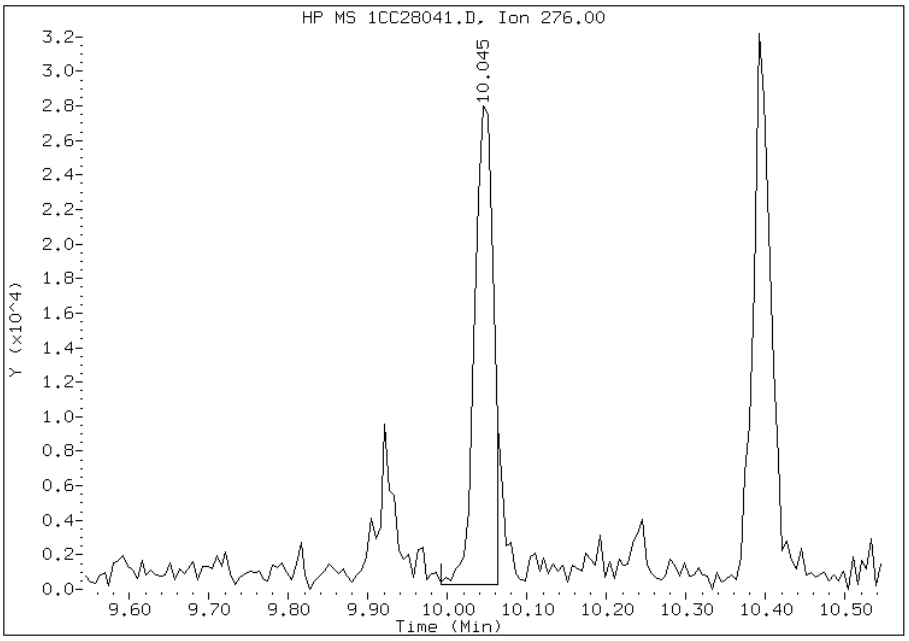
Manual Integration Results

RT: 10.04

Response: 45246

Amount: 1

Conc: 120



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 13:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: CV0663A-CS-SP | Lab Sample ID: 680-88632-25

Matrix: Solid | Lab File ID: 1CD01018.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 13:15

Extract. Method: 3546 | Date Extracted: 03/27/2013 15:04

Sample wt/vol: 14.91(g) | Date Analyzed: 04/01/2013 16:23

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

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

% Moisture: 18.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135996 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	26	J	200	25
120-12-7	Anthracene	83		41	21
56-55-3	Benzo[a]anthracene	300		39	19
50-32-8	Benzo[a]pyrene	320		51	26
205-99-2	Benzo[b]fluoranthene	500		60	30
191-24-2	Benzo[g,h,i]perylene	200		98	22
207-08-9	Benzo[k]fluoranthene	100		39	18
218-01-9	Chrysene	400		44	22
53-70-3	Dibenz(a,h)anthracene	140		98	20
206-44-0	Fluoranthene	440		98	20
86-73-7	Fluorene	36	J	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	180		98	35
90-12-0	1-Methylnaphthalene	200		200	22
91-57-6	2-Methylnaphthalene	240		200	35
91-20-3	Naphthalene	210		200	22
85-01-8	Phenanthrene	360		39	19
129-00-0	Pyrene	420		98	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01018.D
Lab Smp Id: 680-88632-A-25-A Client Smp ID: CV0663A-CS-SP
Inj Date : 01-APR-2013 16:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-25-a
Misc Info : 680-88632-A-25-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 18
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.910	Weight Extracted
M	18.102	% 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	3.716	3.716	(1.000)	709079	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	560673	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	1023931	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	27416	1.77339	580.9143
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1076517	40.0000	
* 23 Perylene-d12	264	8.868	8.886	(1.000)	1054508	40.0000	
2 Naphthalene	128	3.733	3.733	(1.005)	11861	0.64252	210.4728(Q)
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	8971	0.72854	238.6499
4 1-Methylnaphthalene	142	4.216	4.222	(1.135)	6948	0.61954	202.9438
5 Acenaphthylene	152	4.715	4.716	(0.982)	1811	0.08012	26.2439
9 Fluorene	166	5.139	5.145	(1.070)	1949	0.10969	35.9302(Q)
11 Phenanthrene	178	5.768	5.768	(1.003)	32291	1.09063	357.2609
12 Anthracene	178	5.798	5.804	(1.008)	7352	0.25390	83.1712
13 Carbazole	167	5.910	5.910	(1.028)	5515	0.21426	70.1852

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.604	6.604	(1.148)	43305	1.33559	437.5019
16 Pyrene	202	6.768	6.774	(0.880)	36946	1.27709	418.3386
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	28486	0.91682	300.3252
19 Chrysene	228	7.709	7.715	(1.002)	37929	1.21983	399.5817
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.962)	42153	1.52960	501.0534
21 Benzo(k)fluoranthene	252	8.551	8.562	(0.964)	8889	0.31443	102.9975
22 Benzo(a)pyrene	252	8.815	8.827	(0.994)	26271	0.98143	321.4892
24 Indeno(1,2,3-cd)pyrene	276	10.015	10.039	(1.129)	13860	0.55041	180.2993(M)
25 Dibenzo(a,h)anthracene	278	10.033	10.056	(1.131)	10522	0.42719	139.9355(M)
26 Benzo(g,h,i)perylene	276	10.362	10.386	(1.168)	16107	0.61147	200.2991

QC Flag Legend

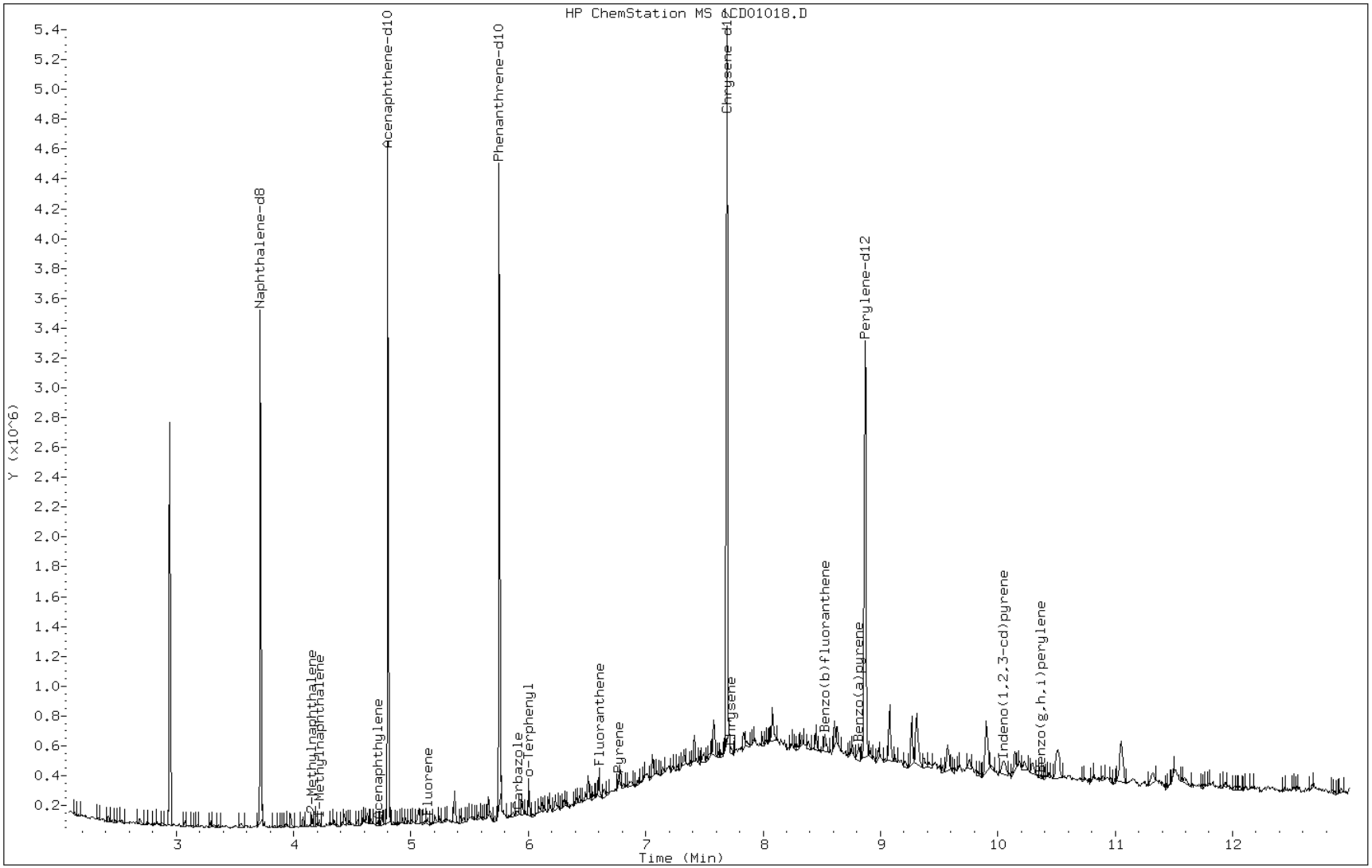
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC



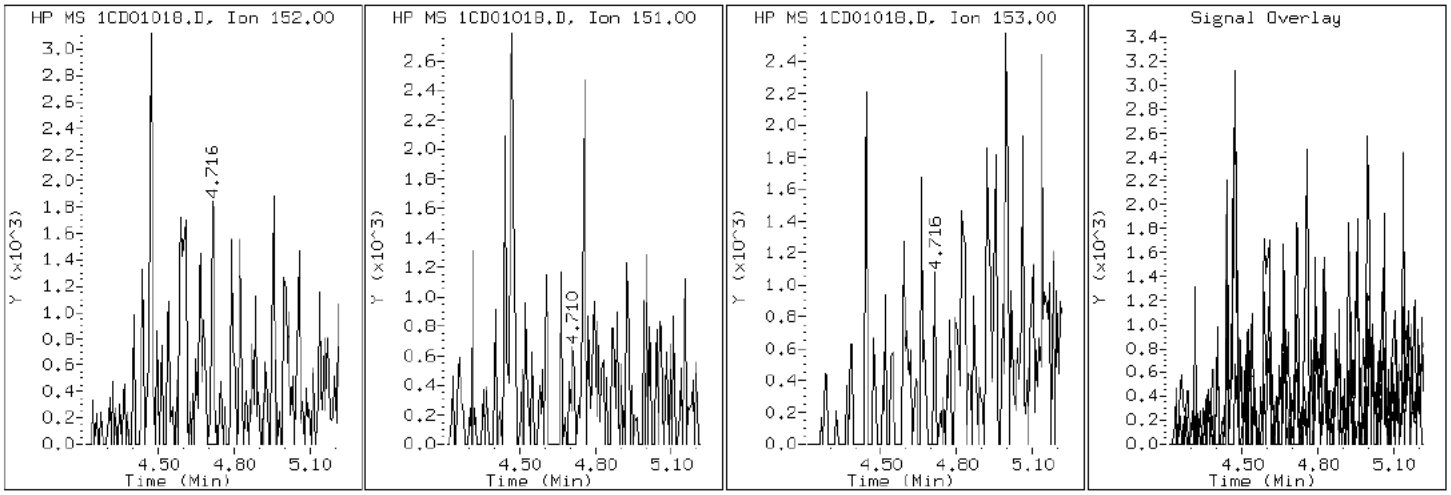
Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC

5 Acenaphthylene



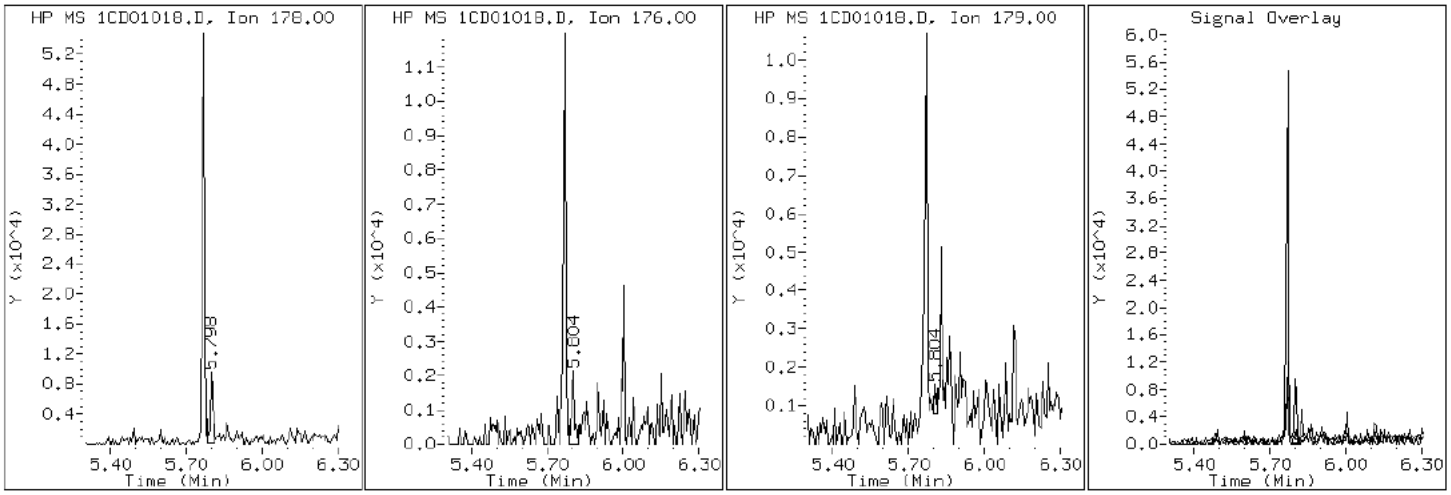
Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC

12 Anthracene



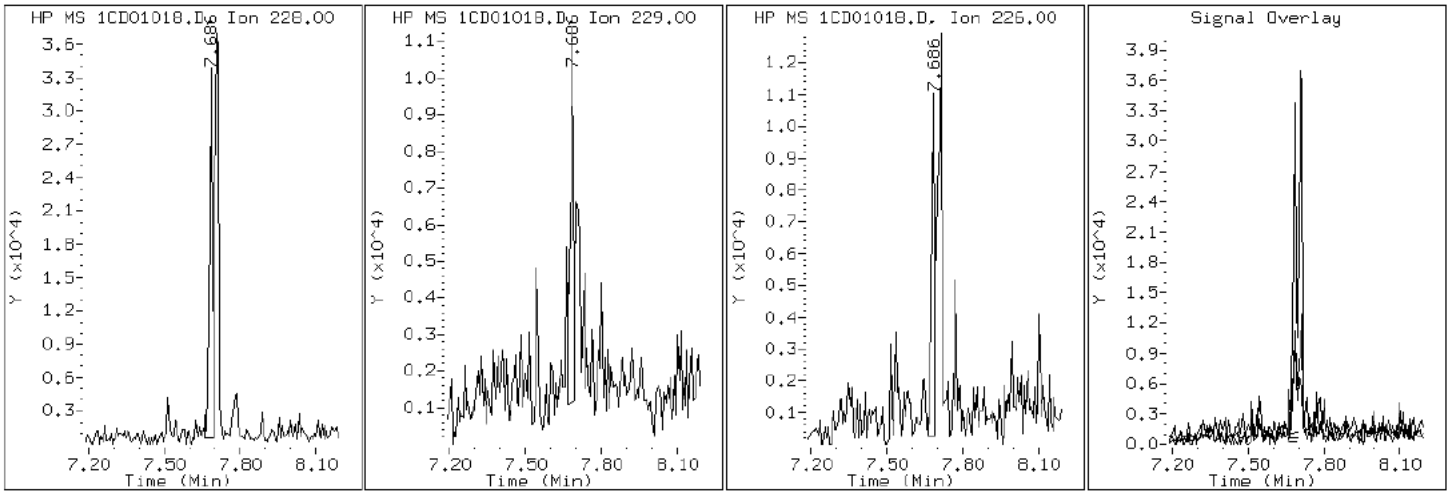
Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC

17 Benzo(a)anthracene



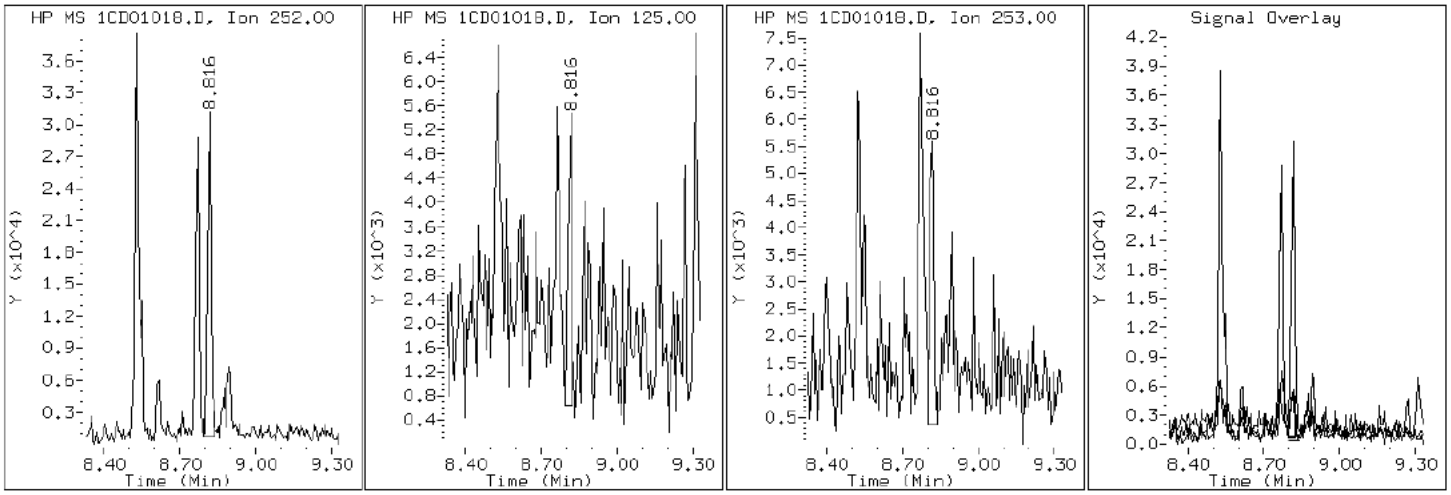
Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC

22 Benzo(a)pyrene



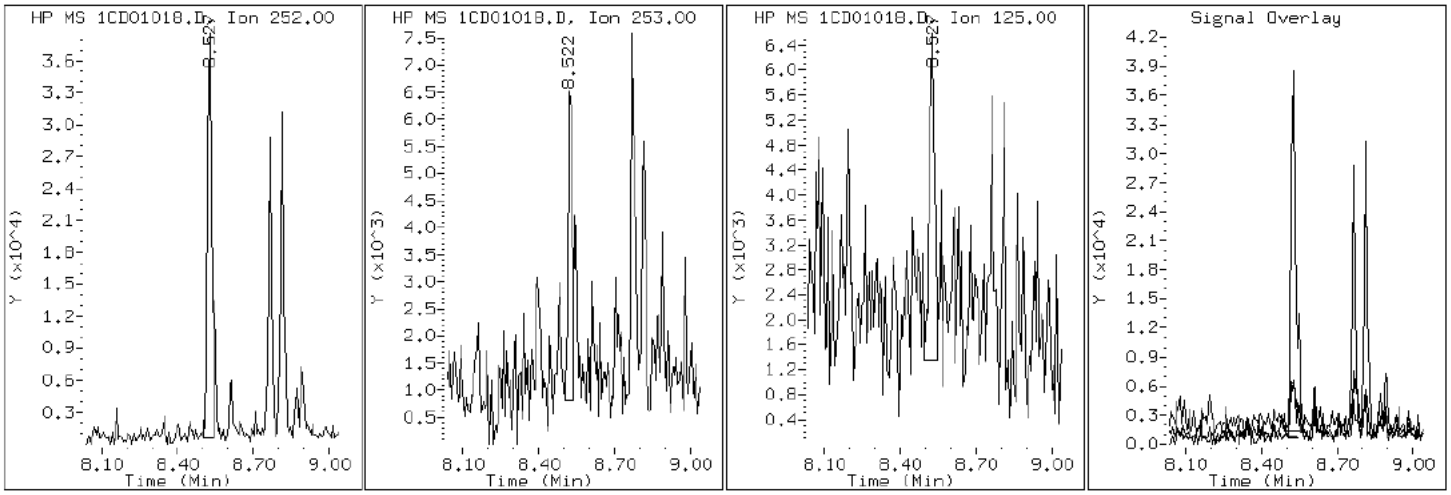
Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC

20 Benzo(b)fluoranthene



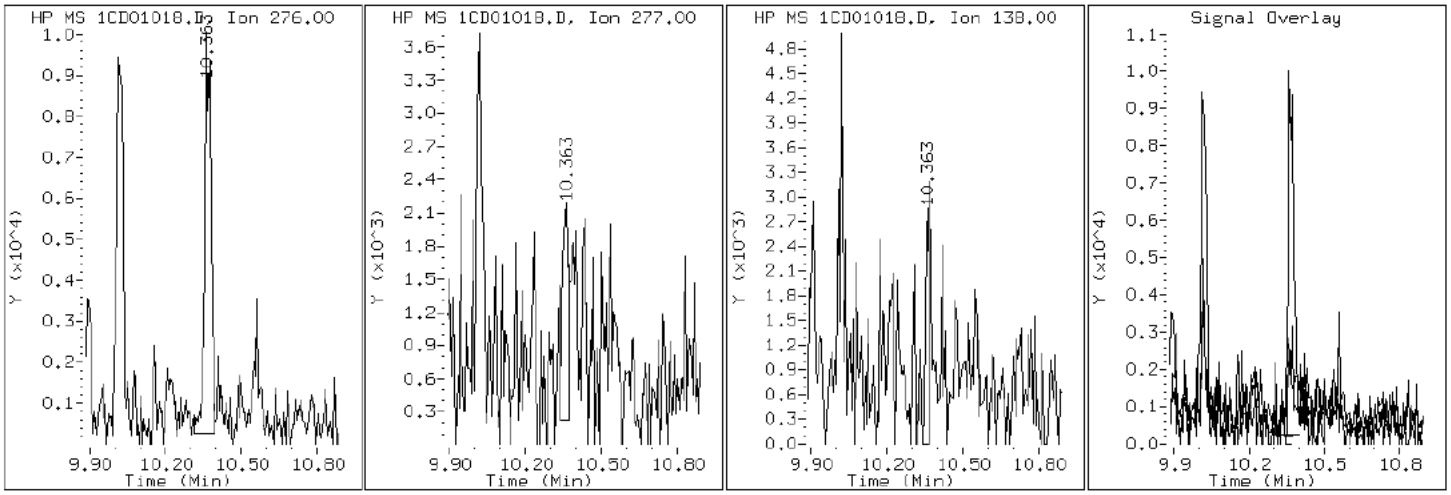
Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC

26 Benzo(g,h,i)perylene



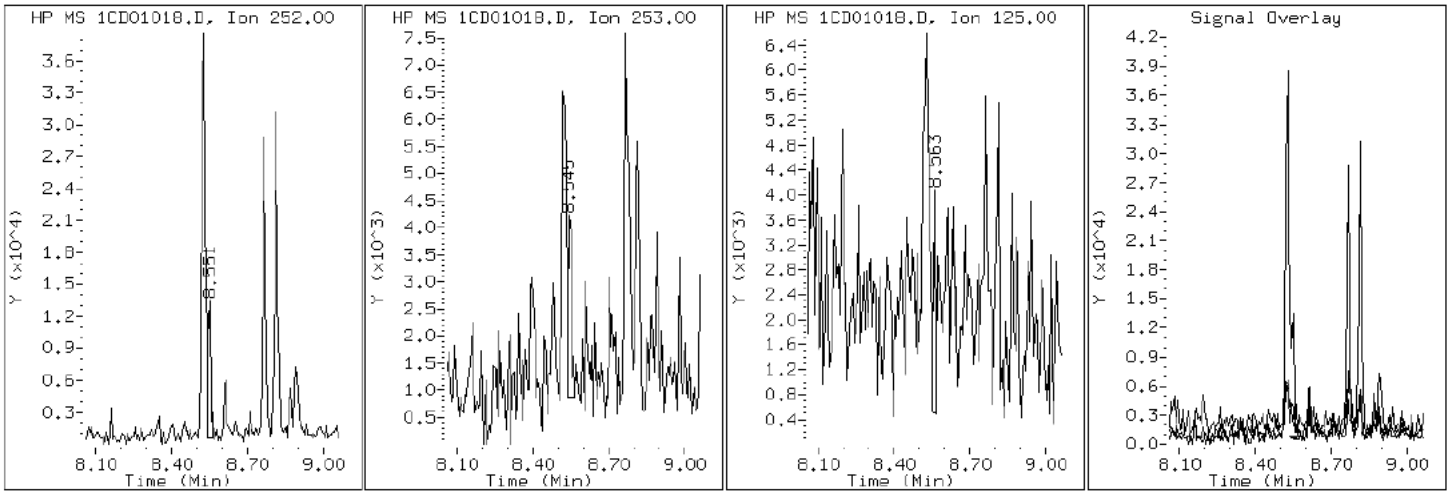
Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC

21 Benzo(k)fluoranthene



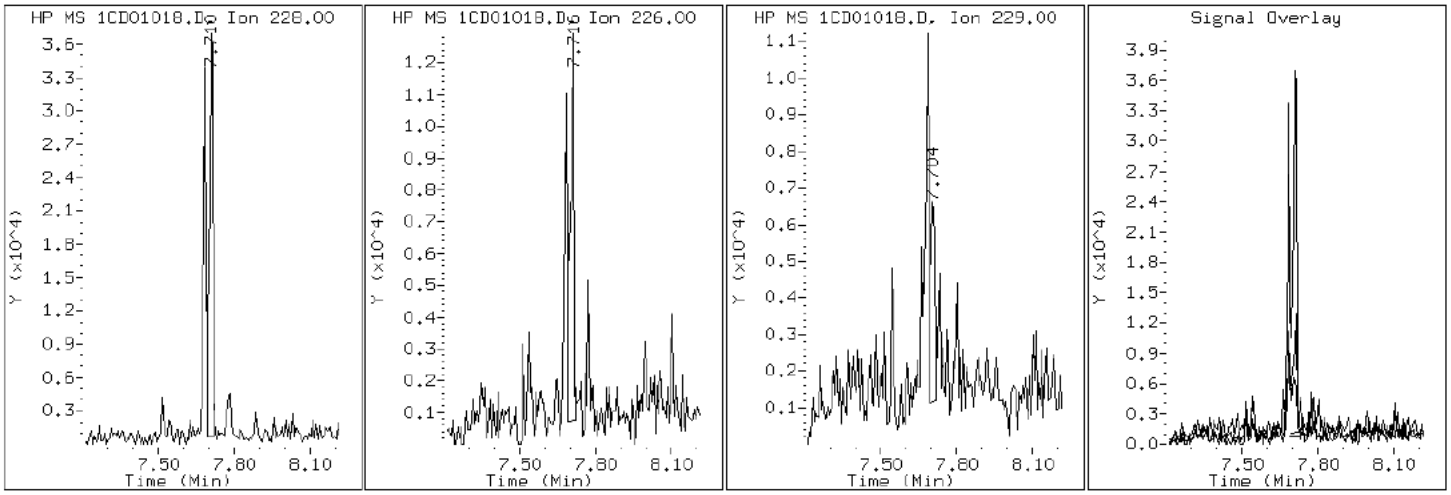
Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC

19 Chrysene



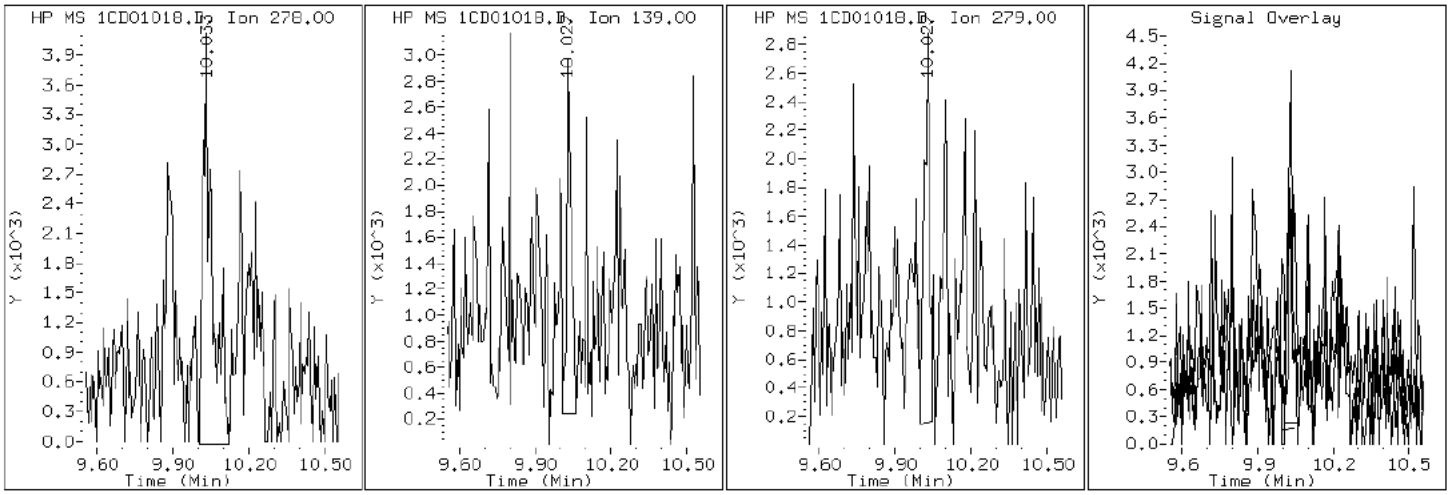
Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC

25 Dibenzo(a,h)anthracene



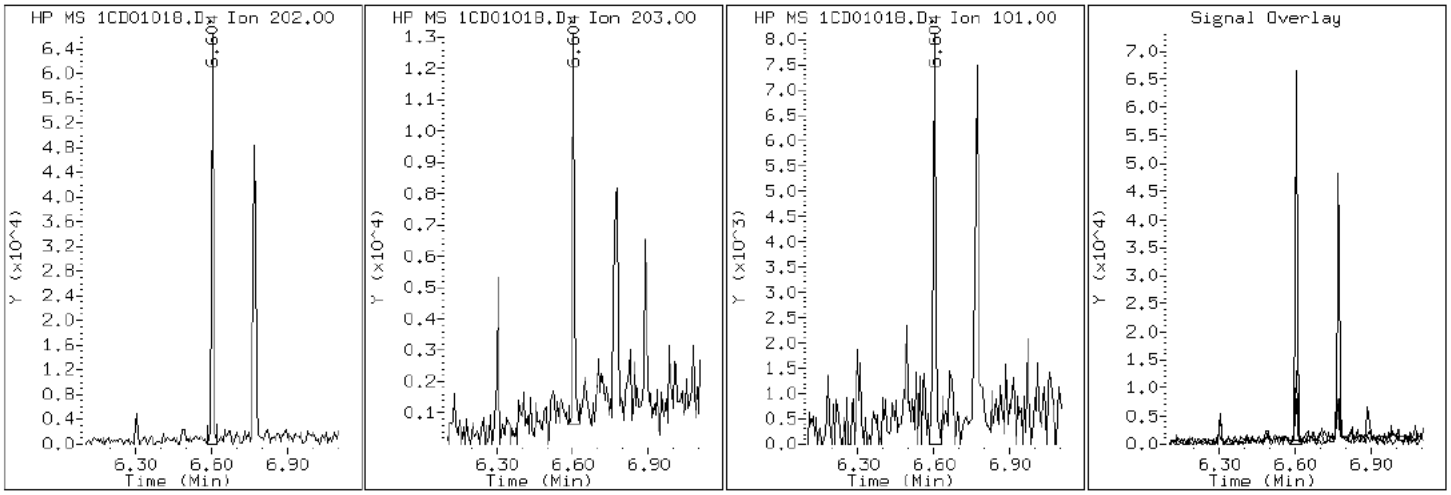
Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC

15 Fluoranthene



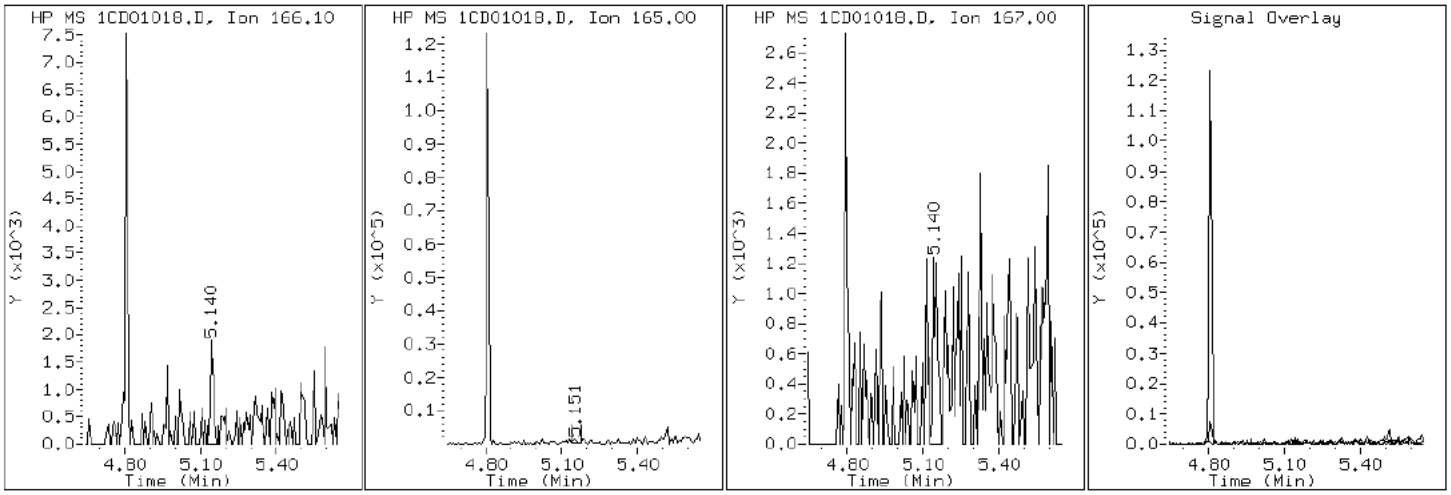
Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC

9 Fluorene



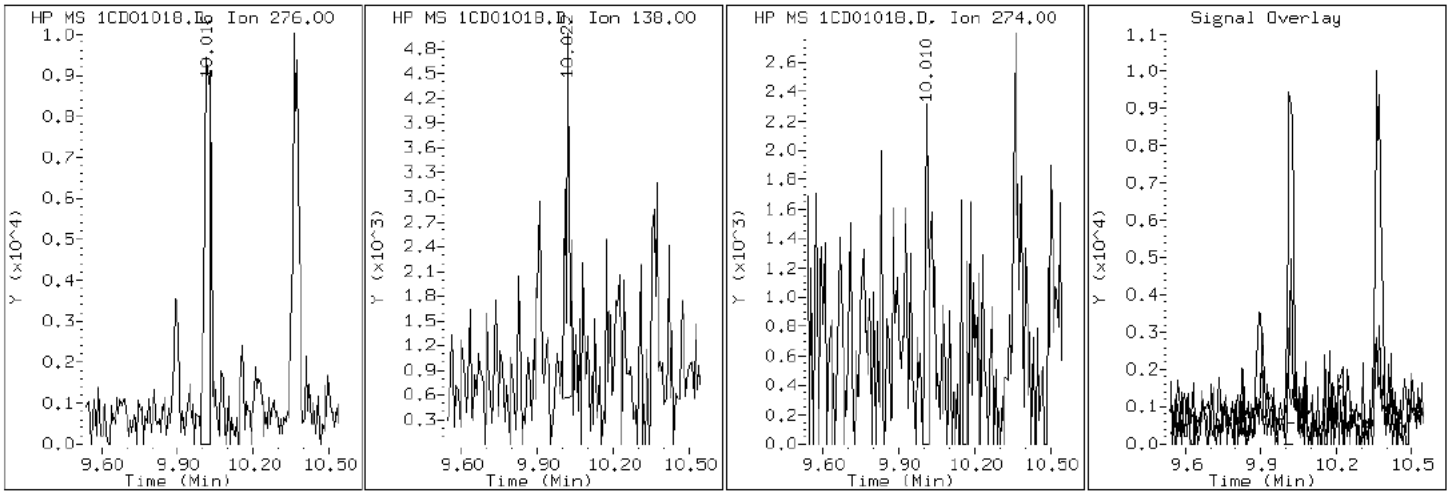
Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC

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



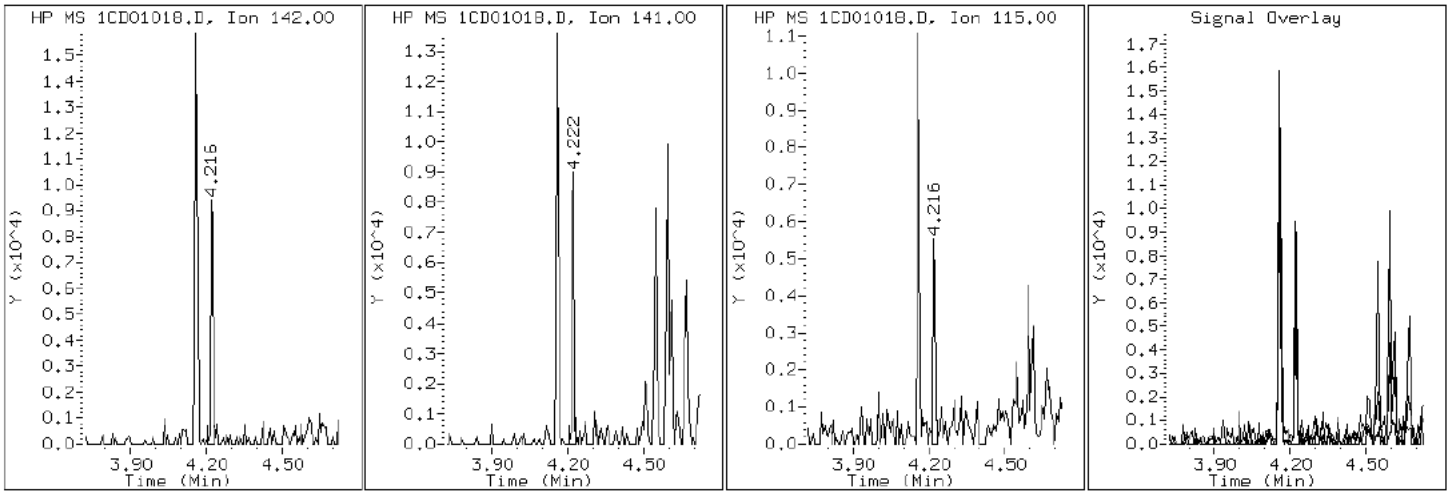
Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC

4 1-Methylnaphthalene



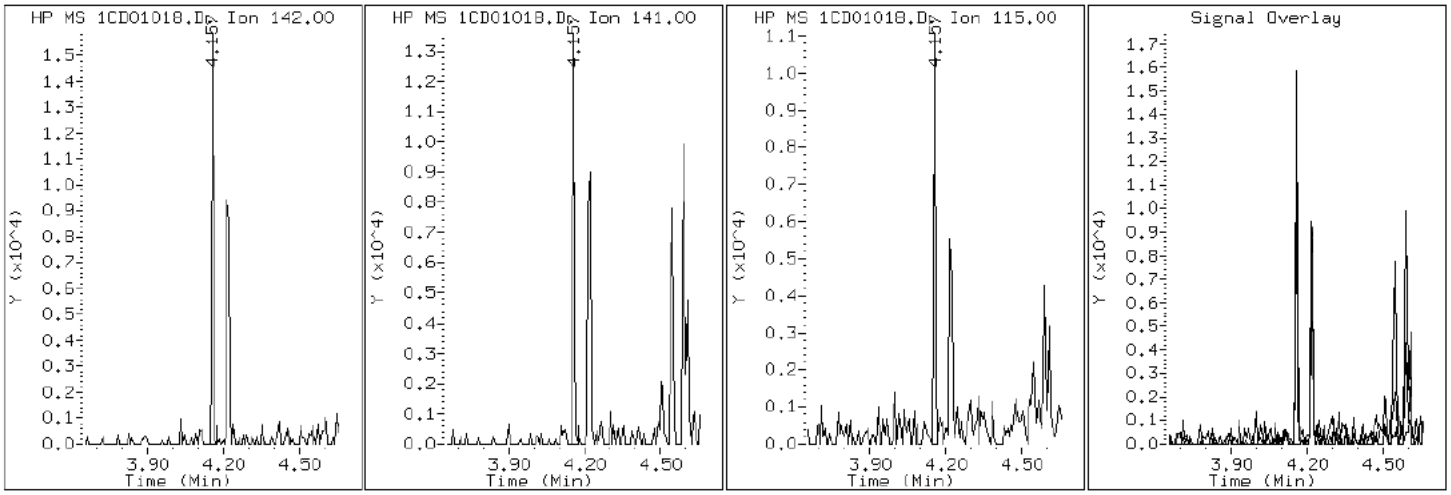
Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC

3 2-Methylnaphthalene



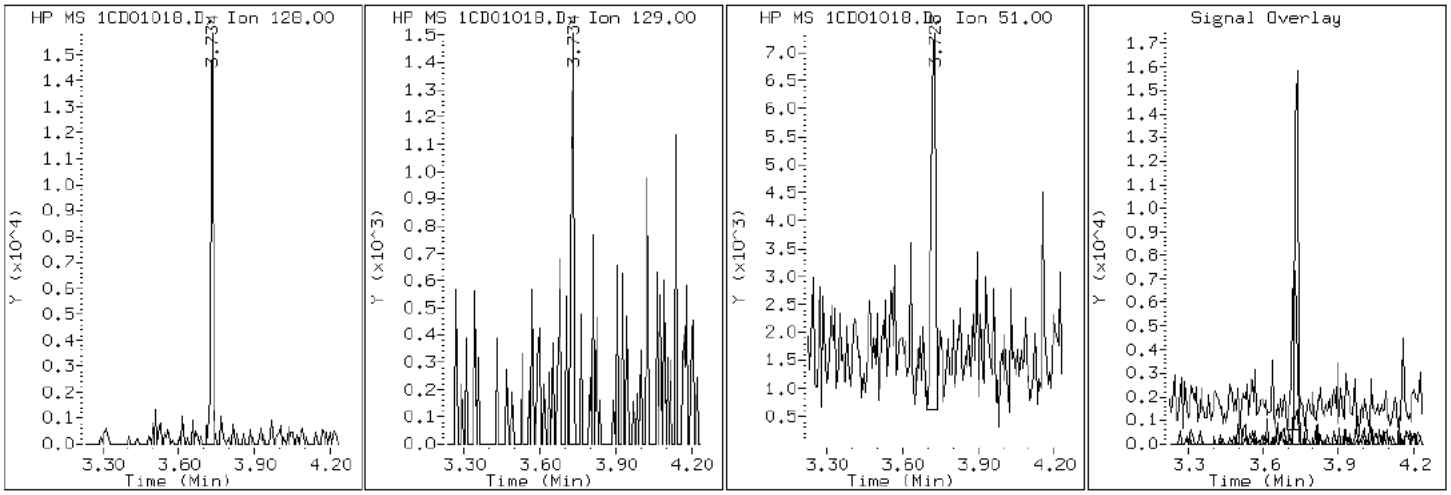
Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC

2 Naphthalene



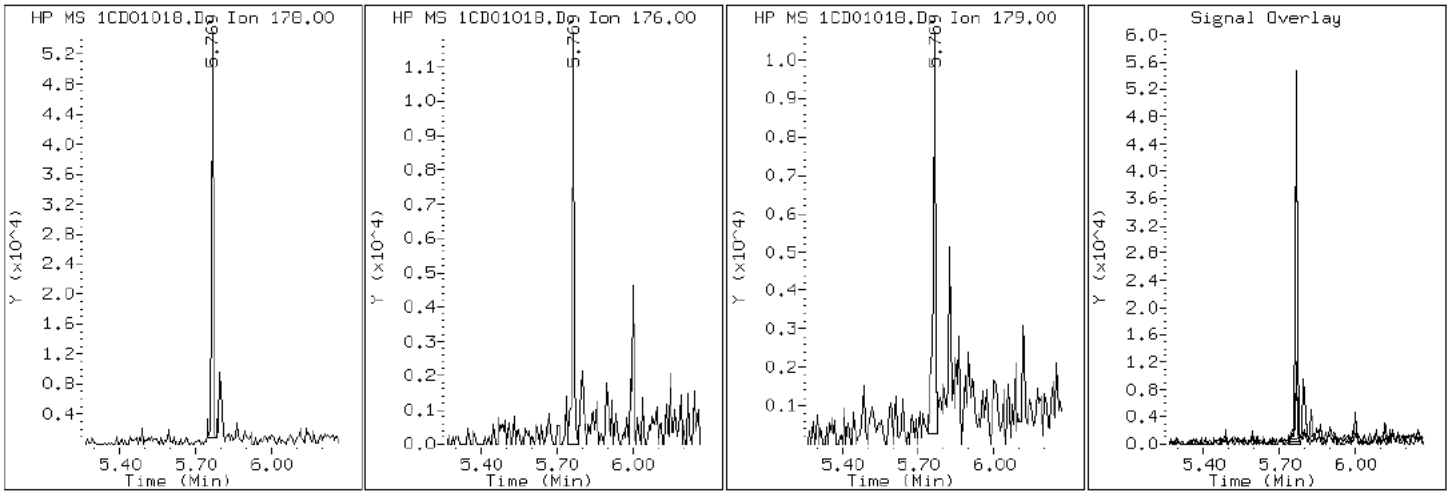
Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC

11 Phenanthrene



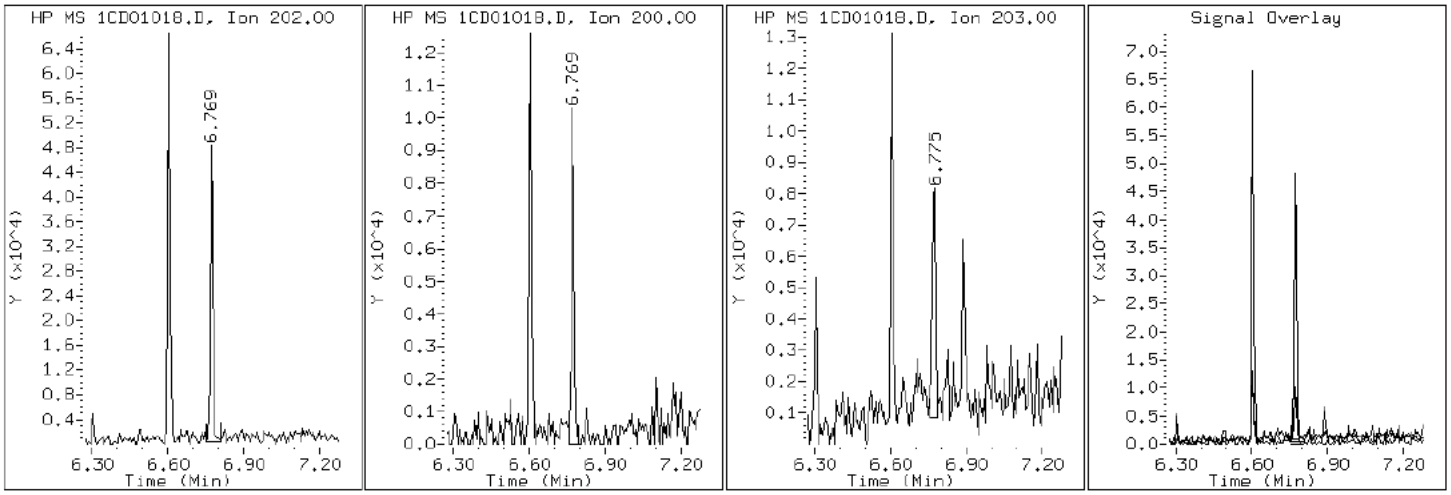
Data File: 1CD01018.D

Date: 01-APR-2013 16:23

Client ID: CV0663A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-25-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD01018.D
Inj. Date and Time: 01-APR-2013 16:23
Instrument ID: BSMC5973.i
Client ID: CV0663A-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/03/2013

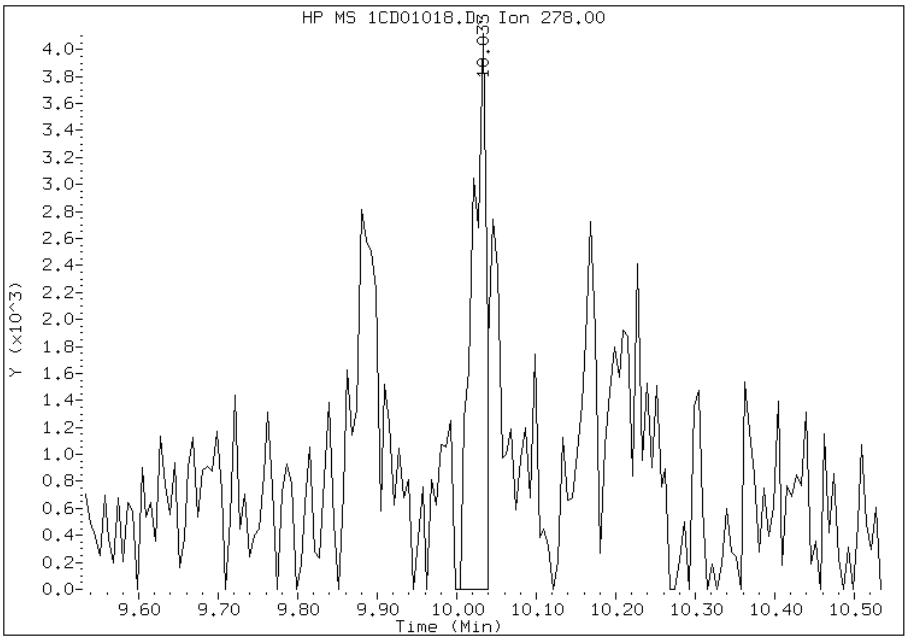
Processing Integration Results

RT: 10.03

Response: 5135

Amount: 0

Conc: 68



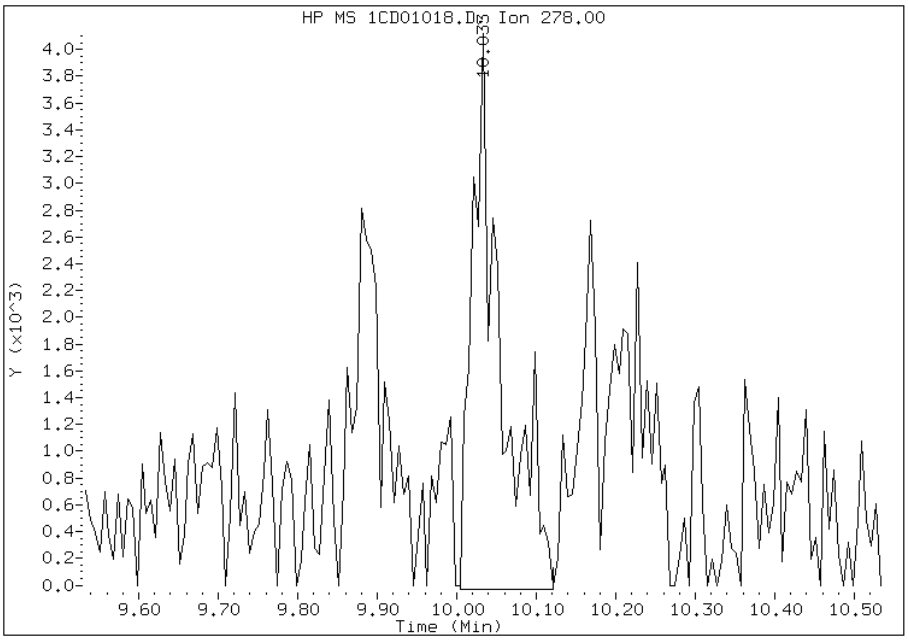
Manual Integration Results

RT: 10.03

Response: 10522

Amount: 0

Conc: 140



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01018.D
Inj. Date and Time: 01-APR-2013 16:23
Instrument ID: BSMC5973.i
Client ID: CV0663A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

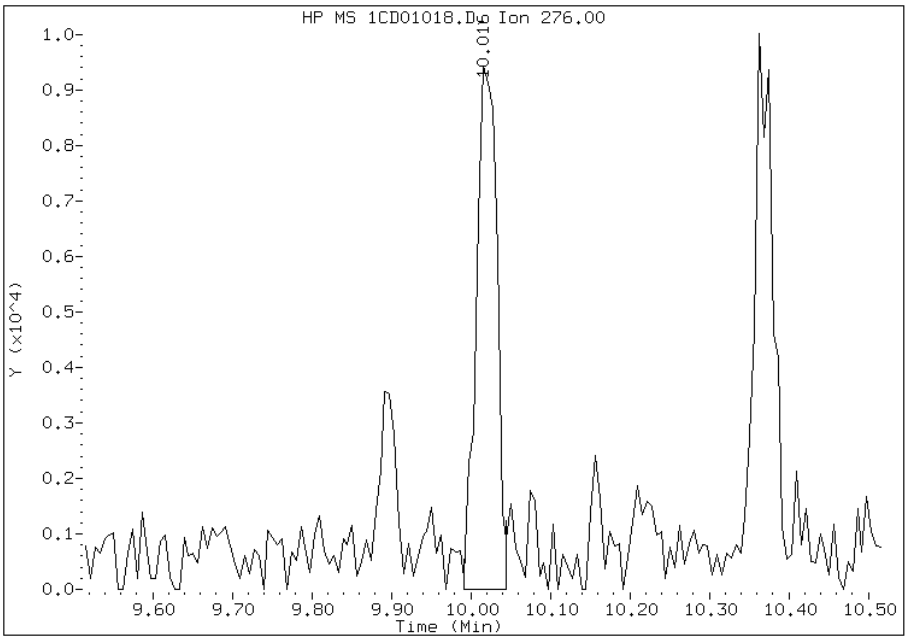
Processing Integration Results

RT: 10.02

Response: 16816

Amount: 1

Conc: 219



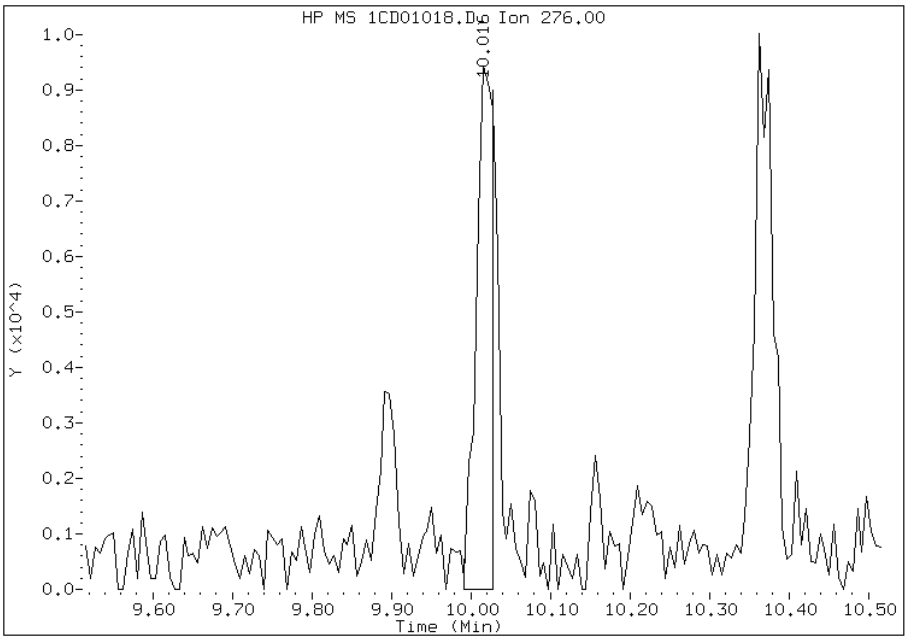
Manual Integration Results

RT: 10.02

Response: 13860

Amount: 1

Conc: 180



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: CV0663B-CS-SP | Lab Sample ID: 680-88632-26

Matrix: Solid | Lab File ID: 1CD01019.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 13:20

Extract. Method: 3546 | Date Extracted: 03/27/2013 15:04

Sample wt/vol: 14.97(g) | Date Analyzed: 04/01/2013 16:41

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

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

% Moisture: 26.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135996 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	150	J	220	27
120-12-7	Anthracene	180		46	23
56-55-3	Benzo[a]anthracene	1000		43	21
50-32-8	Benzo[a]pyrene	900		56	28
205-99-2	Benzo[b]fluoranthene	1500		66	33
191-24-2	Benzo[g,h,i]perylene	630		110	24
207-08-9	Benzo[k]fluoranthene	590		43	20
218-01-9	Chrysene	1100		49	24
53-70-3	Dibenz(a,h)anthracene	230		110	22
206-44-0	Fluoranthene	1500		110	22
86-73-7	Fluorene	69	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	580		110	39
90-12-0	1-Methylnaphthalene	470		220	24
91-57-6	2-Methylnaphthalene	550		220	39
91-20-3	Naphthalene	430		220	24
85-01-8	Phenanthrene	950		43	21
129-00-0	Pyrene	1500		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	76		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01019.D
Lab Smp Id: 680-88632-A-26-A Client Smp ID: CV0663B-CS-SP
Inj Date : 01-APR-2013 16:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-26-a
Misc Info : 680-88632-A-26-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 19
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	26.190	% 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	3.716	3.716	(1.000)	674681	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	524033	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	947951	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	27283	1.90624	690.0874
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1027608	40.0000	
* 23 Perylene-d12	264	8.868	8.886	(1.000)	1009665	40.0000	
2 Naphthalene	128	3.733	3.733	(1.005)	20840	1.18648	429.5243
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	17862	1.52454	551.9068
4 1-Methylnaphthalene	142	4.215	4.222	(1.135)	13707	1.28454	465.0223
5 Acenaphthylene	152	4.715	4.716	(0.982)	8769	0.41505	150.2555
9 Fluorene	166	5.139	5.145	(1.070)	3179	0.19142	69.2962
11 Phenanthrene	178	5.768	5.768	(1.003)	72257	2.63610	954.3065
12 Anthracene	178	5.804	5.804	(1.009)	12964	0.48360	175.0696
13 Carbazole	167	5.909	5.910	(1.028)	8355	0.35061	126.9260

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.604	6.604	(1.148)	128232	4.27186	1546.4730
16 Pyrene	202	6.768	6.774	(0.880)	113843	4.12243	1492.3799
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	83238	2.80652	1016.0019
19 Chrysene	228	7.709	7.715	(1.002)	86573	2.91678	1055.9158
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.962)	110273	4.17918	1512.9219(M)
21 Benzo(k)fluoranthene	252	8.539	8.562	(0.963)	43960	1.62404	587.9269(QM)
22 Benzo(a)pyrene	252	8.815	8.827	(0.994)	64046	2.49889	904.6354
24 Indeno(1,2,3-cd)pyrene	276	10.027	10.039	(1.131)	38637	1.60251	580.1310(M)
25 Dibenzo(a,h)anthracene	278	10.039	10.056	(1.132)	14662	0.62171	225.0684
26 Benzo(g,h,i)perylene	276	10.368	10.386	(1.169)	44213	1.75299	634.6087

QC Flag Legend

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

Data File: 1CD01019.D

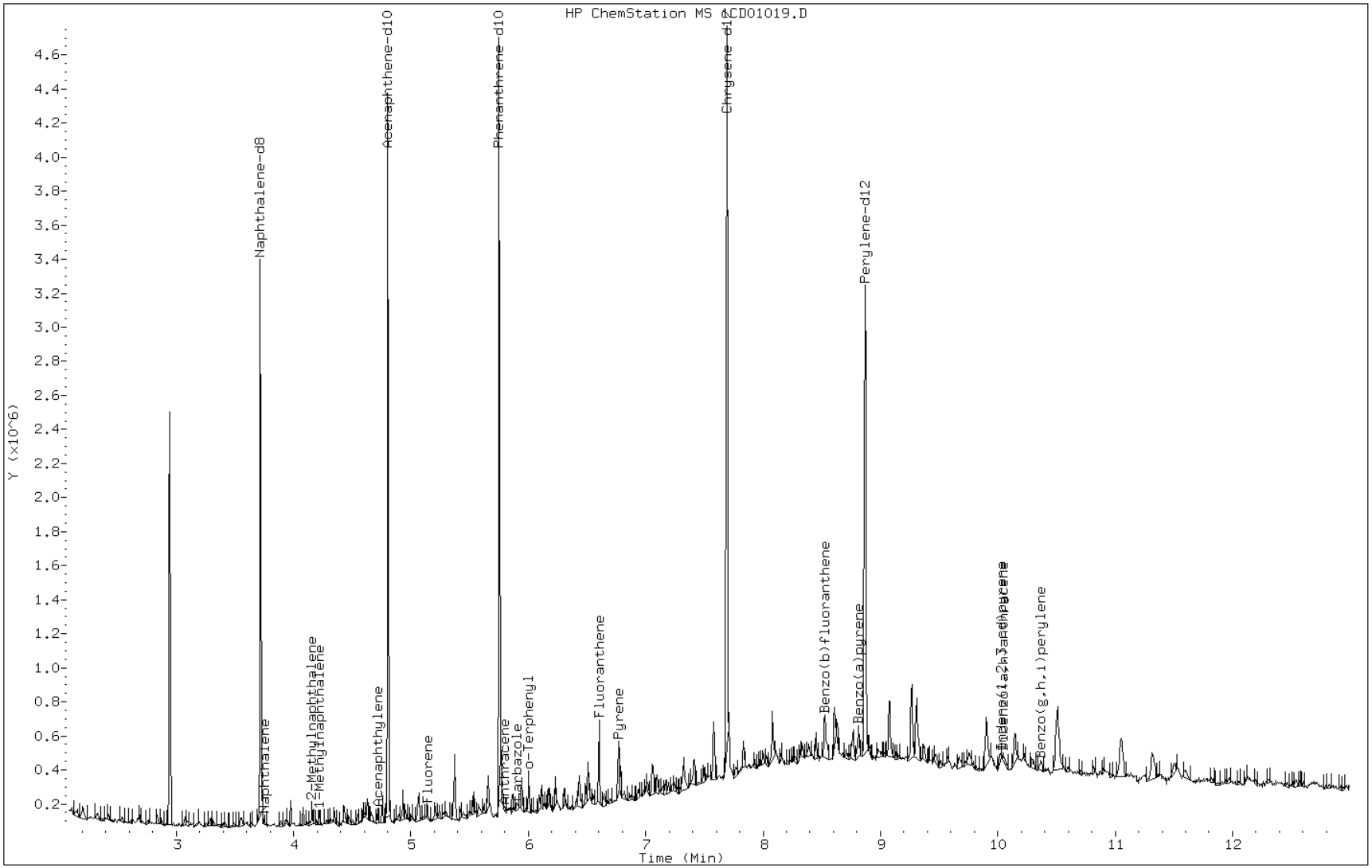
Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a

Operator: SCC



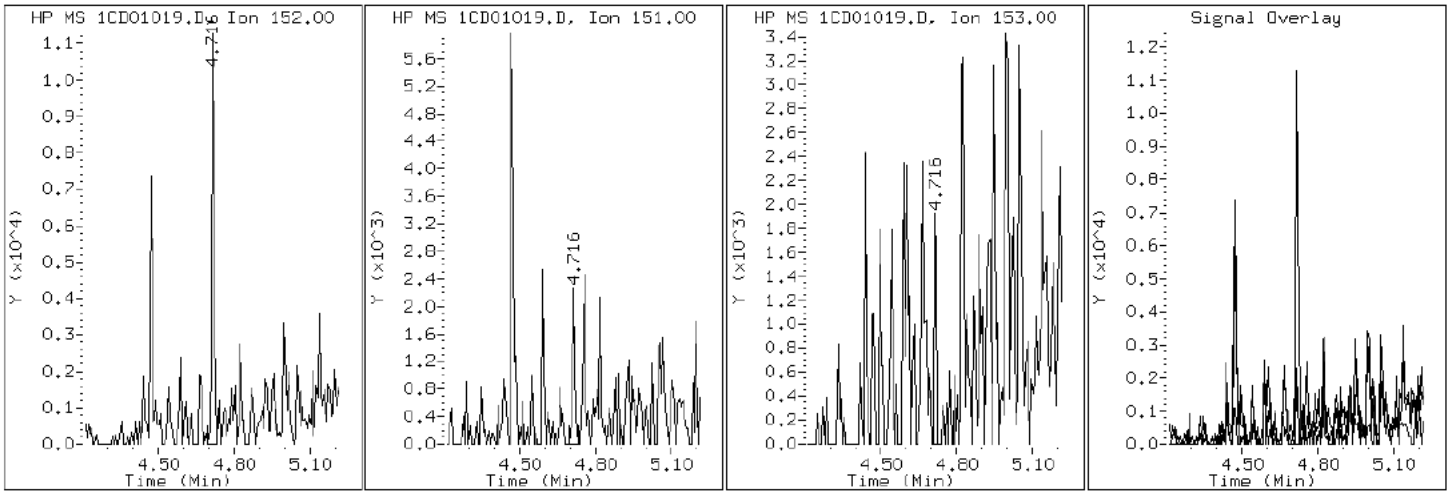
Data File: 1CD01019.D

Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a Operator: SCC

5 Acenaphthylene



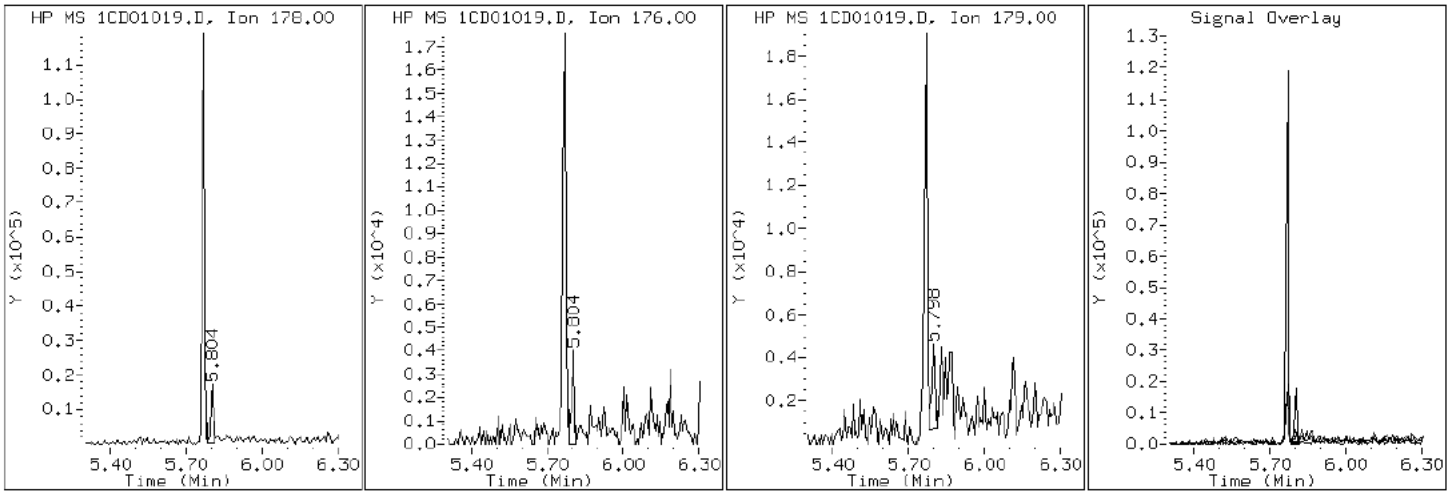
Data File: 1CD01019.D

Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a Operator: SCC

12 Anthracene



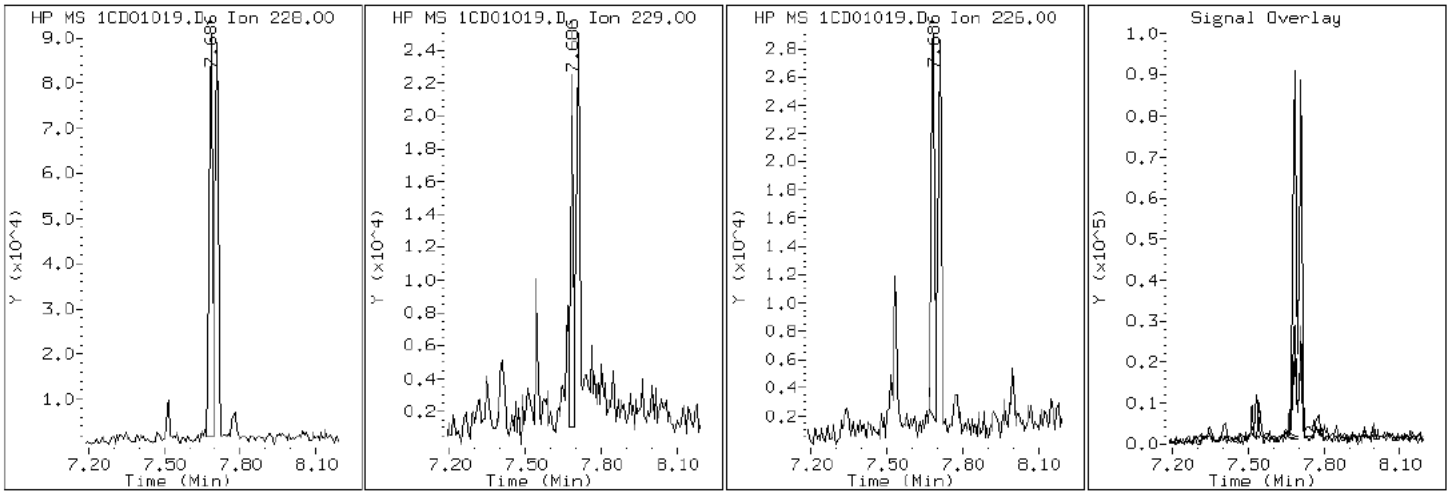
Data File: 1CD01019.D

Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a Operator: SCC

17 Benzo(a)anthracene



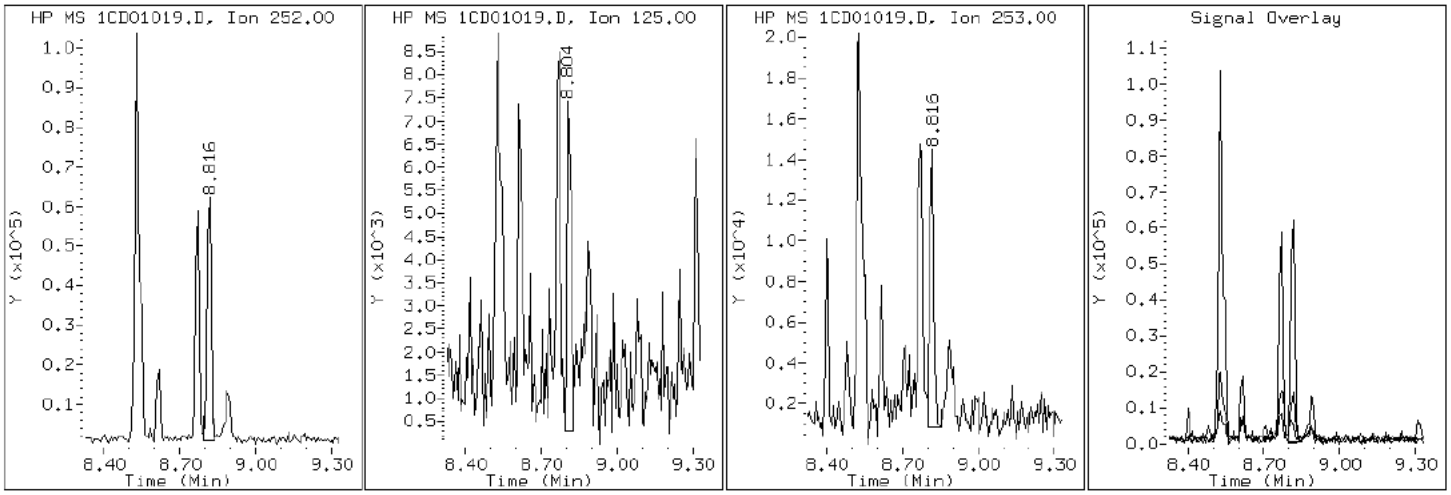
Data File: 1CD01019.D

Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a Operator: SCC

22 Benzo(a)pyrene



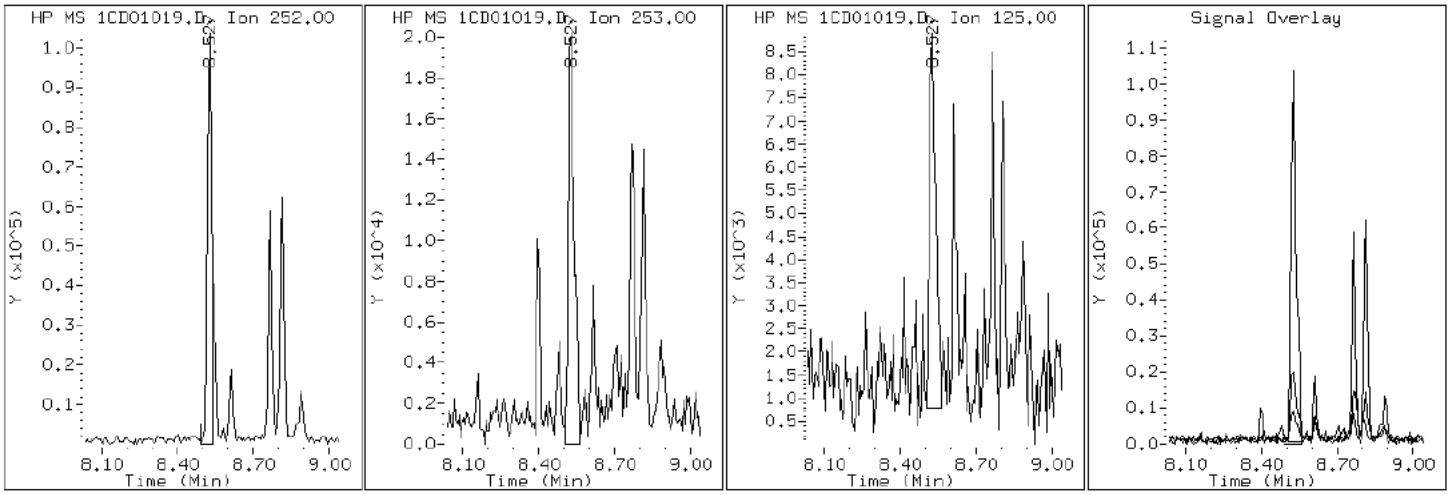
Data File: 1CD01019.D

Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a Operator: SCC

20 Benzo(b)fluoranthene



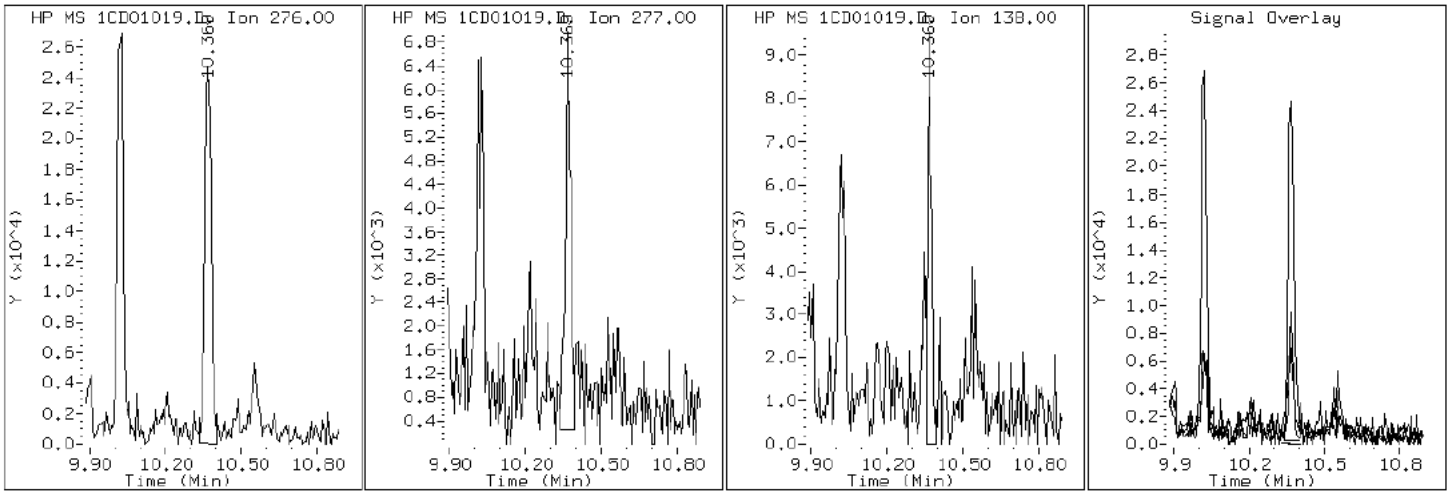
Data File: 1CD01019.D

Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a Operator: SCC

26 Benzo(g,h,i)perylene



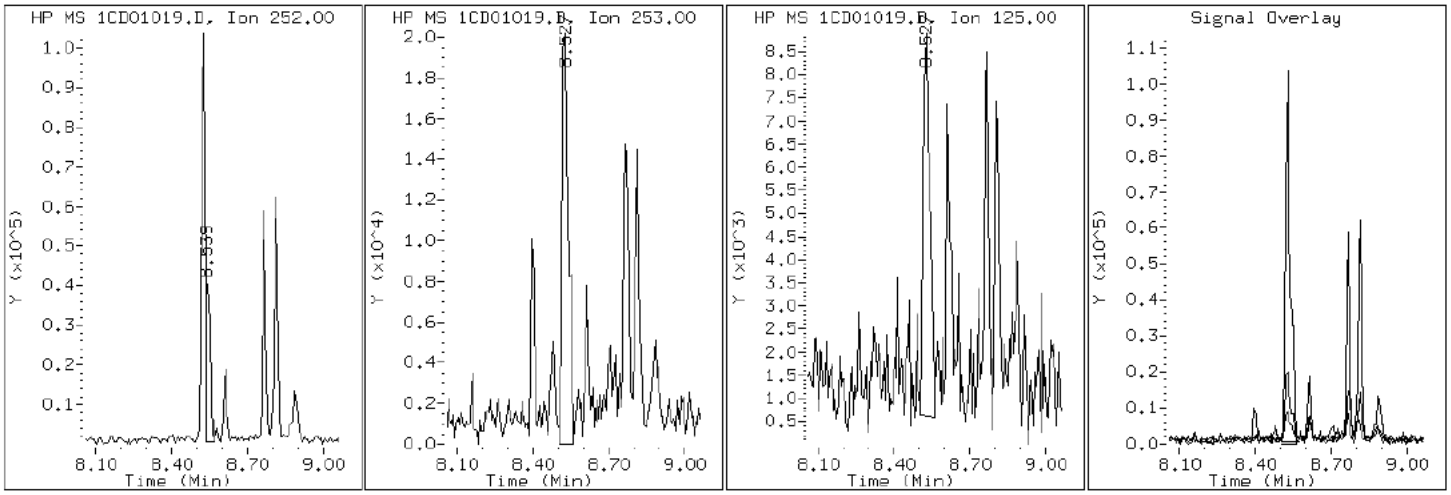
Data File: 1CD01019.D

Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a Operator: SCC

21 Benzo(k)fluoranthene



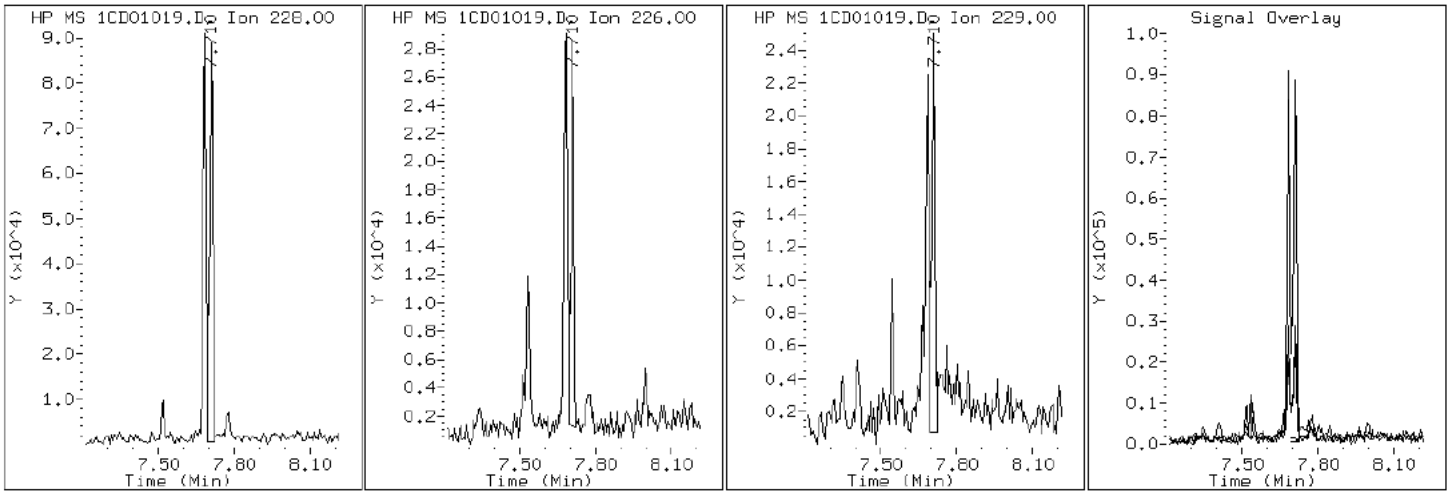
Data File: 1CD01019.D

Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a Operator: SCC

19 Chrysene



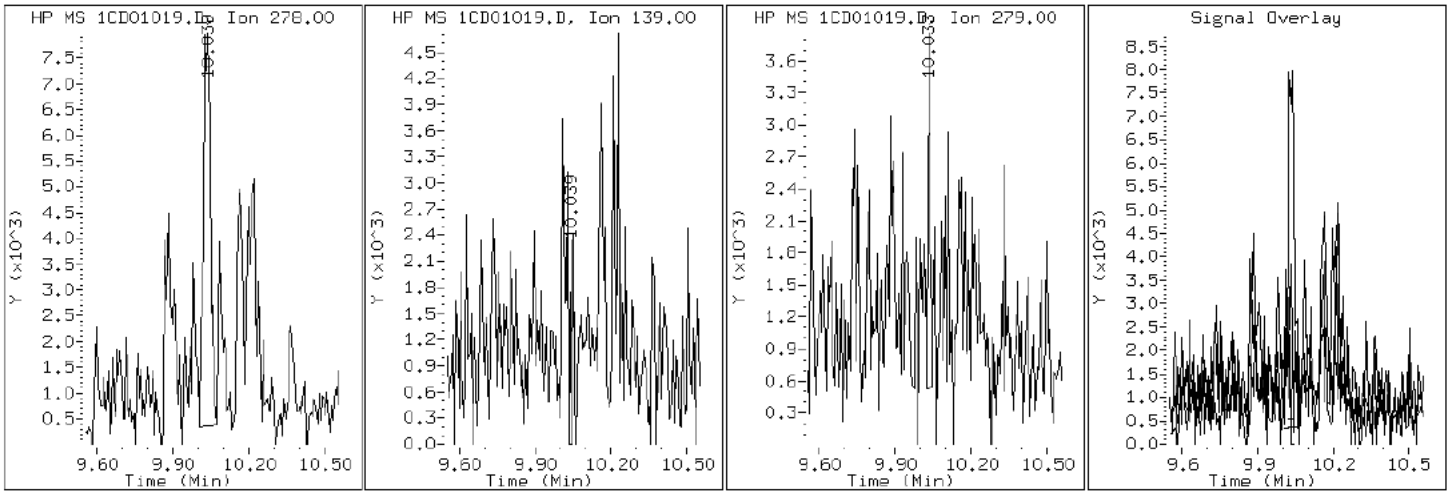
Data File: 1CD01019.D

Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a Operator: SCC

25 Dibenzo(a,h)anthracene



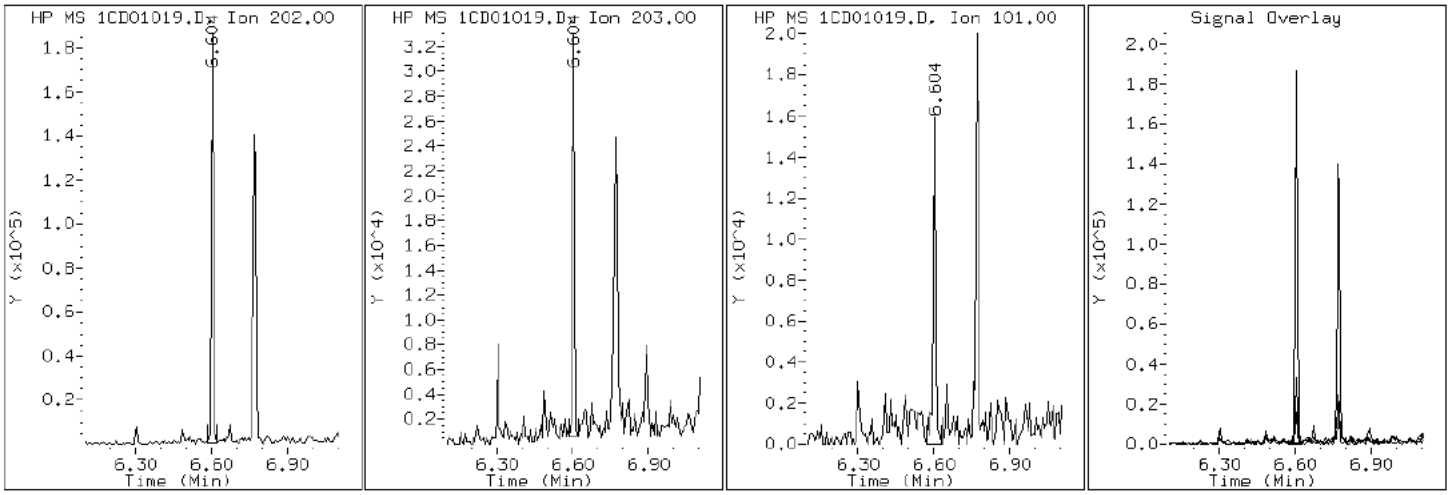
Data File: 1CD01019.D

Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a Operator: SCC

15 Fluoranthene



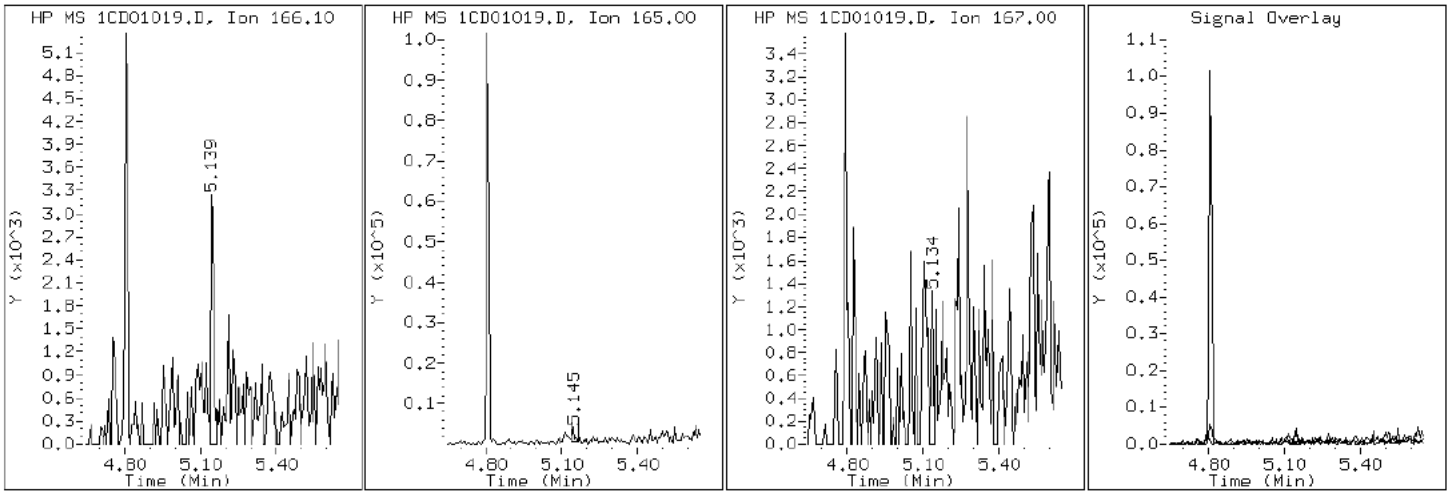
Data File: 1CD01019.D

Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a Operator: SCC

9 Fluorene



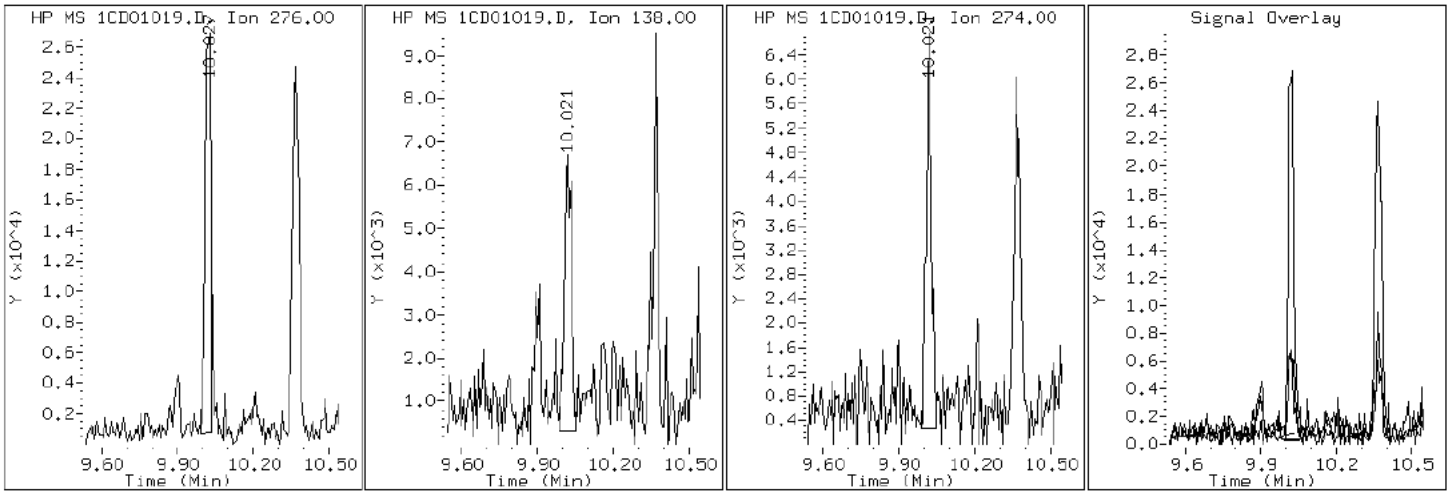
Data File: 1CD01019.D

Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a Operator: SCC

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



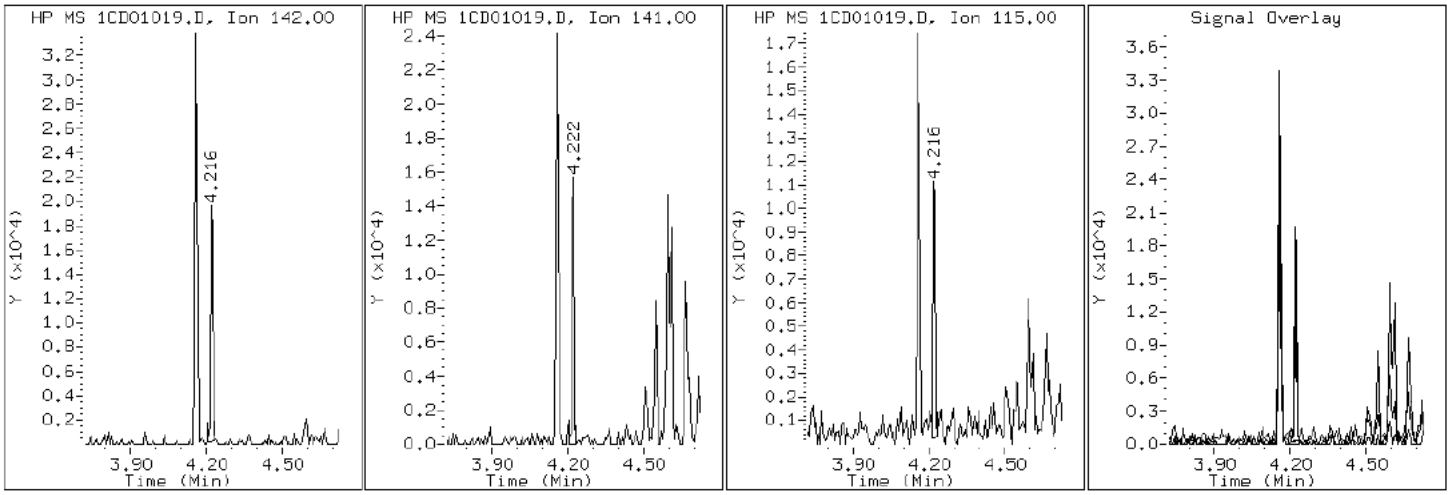
Data File: 1CD01019.D

Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a Operator: SCC

4 1-Methylnaphthalene



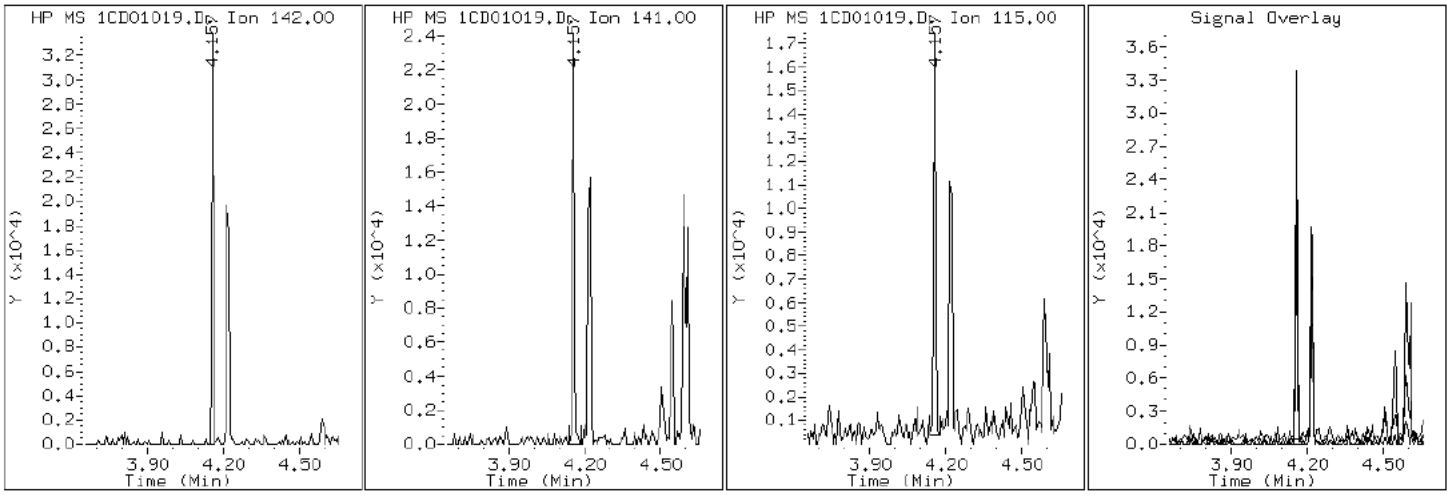
Data File: 1CD01019.D

Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a Operator: SCC

3 2-Methylnaphthalene



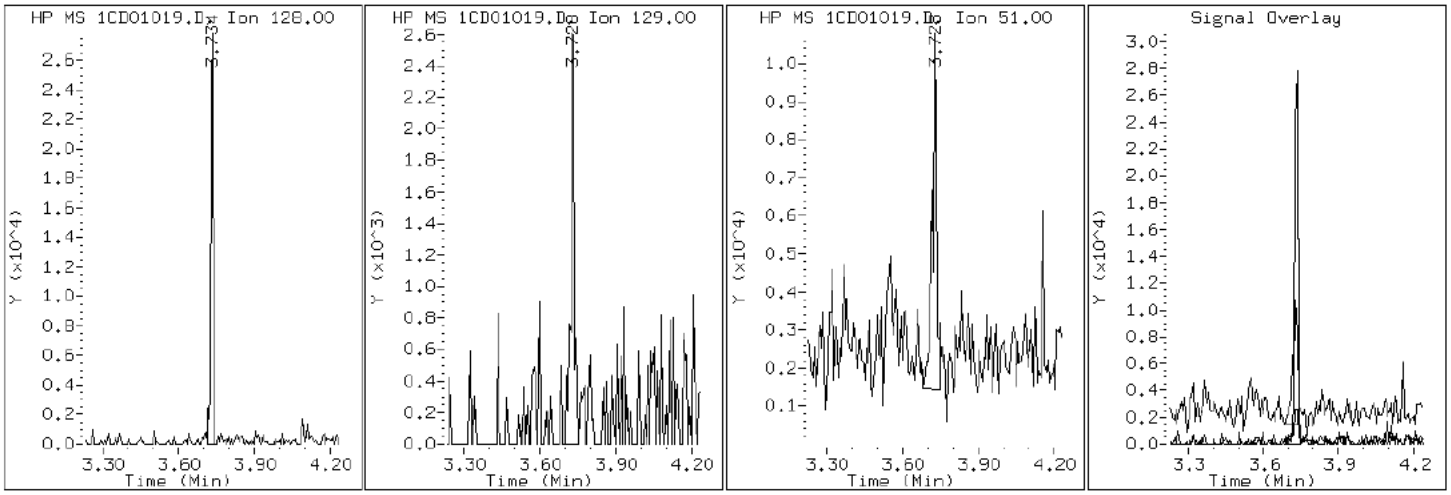
Data File: 1CD01019.D

Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a Operator: SCC

2 Naphthalene



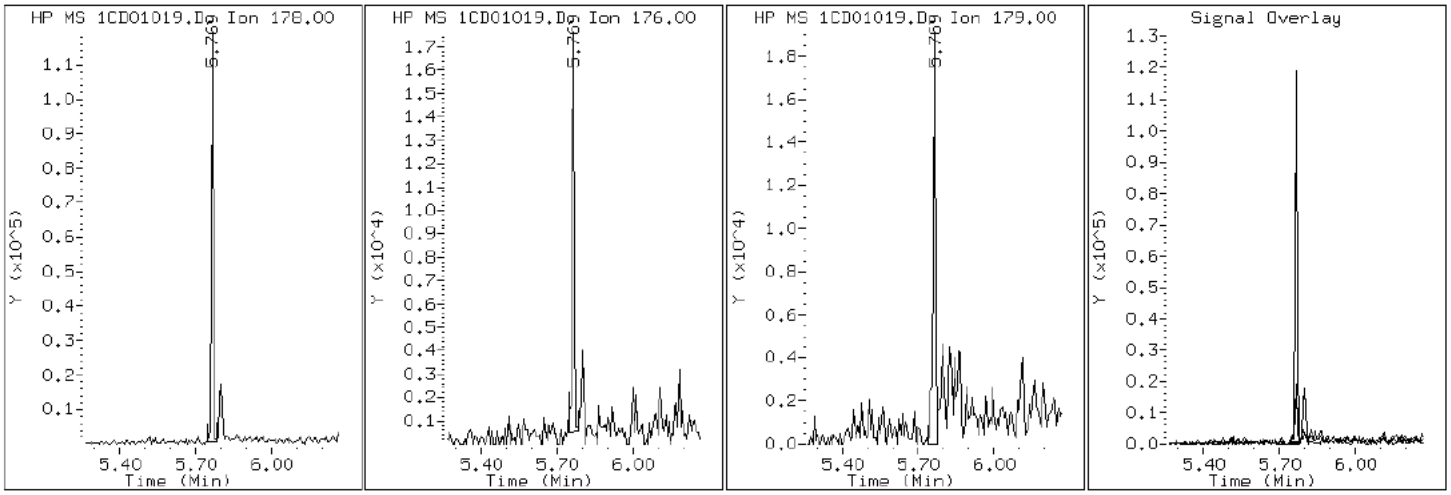
Data File: 1CD01019.D

Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a Operator: SCC

11 Phenanthrene



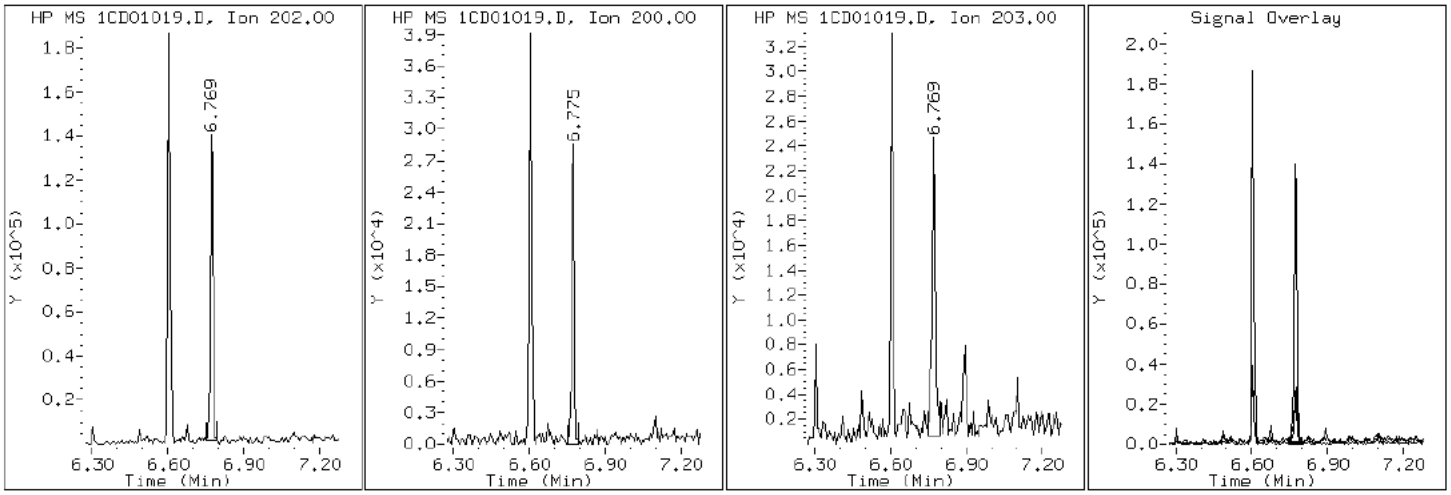
Data File: 1CD01019.D

Date: 01-APR-2013 16:41

Client ID: CV0663B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-26-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD01019.D
Inj. Date and Time: 01-APR-2013 16:41
Instrument ID: BSMC5973.i
Client ID: CV0663B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

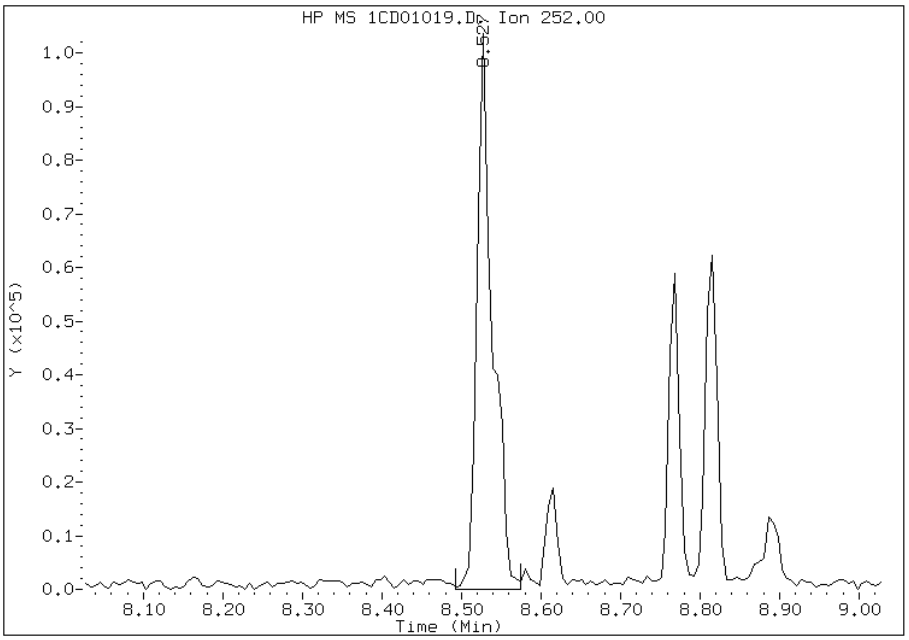
Processing Integration Results

RT: 8.53

Response: 141067

Amount: 5

Conc: 1935



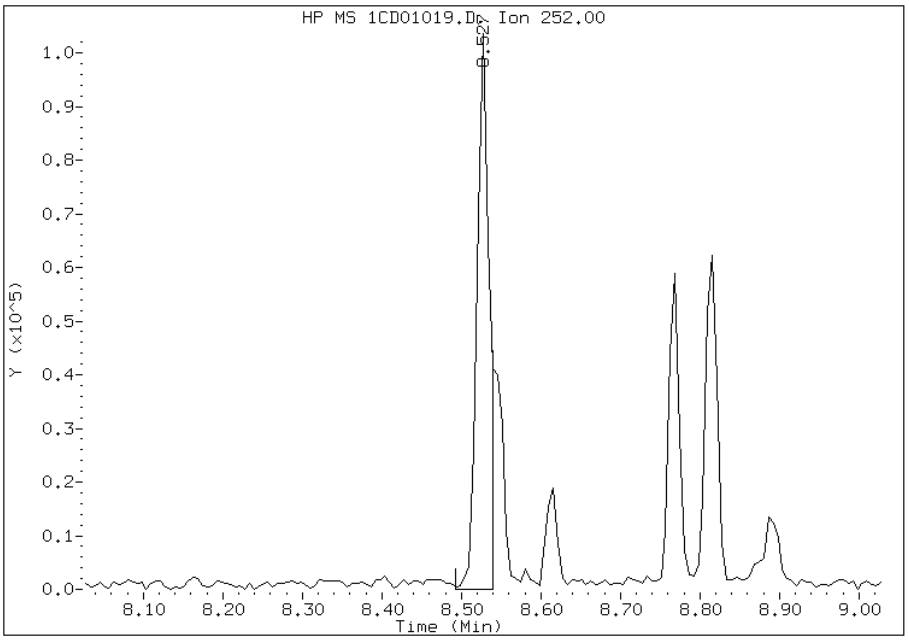
Manual Integration Results

RT: 8.53

Response: 110273

Amount: 4

Conc: 1513



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:21
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD01019.D
Inj. Date and Time: 01-APR-2013 16:41
Instrument ID: BSMC5973.i
Client ID: CV0663B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

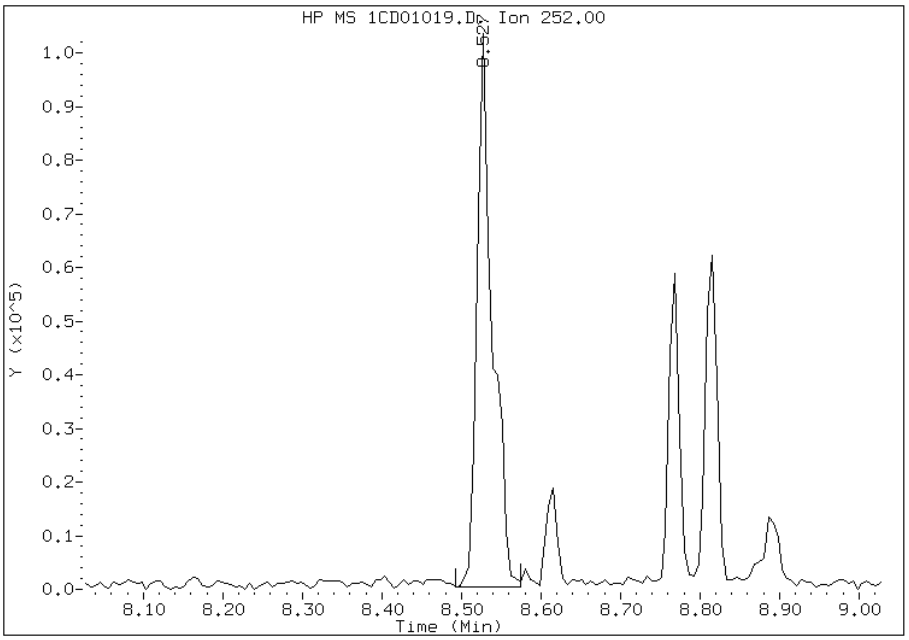
Processing Integration Results

RT: 8.53

Response: 138285

Amount: 5

Conc: 1849



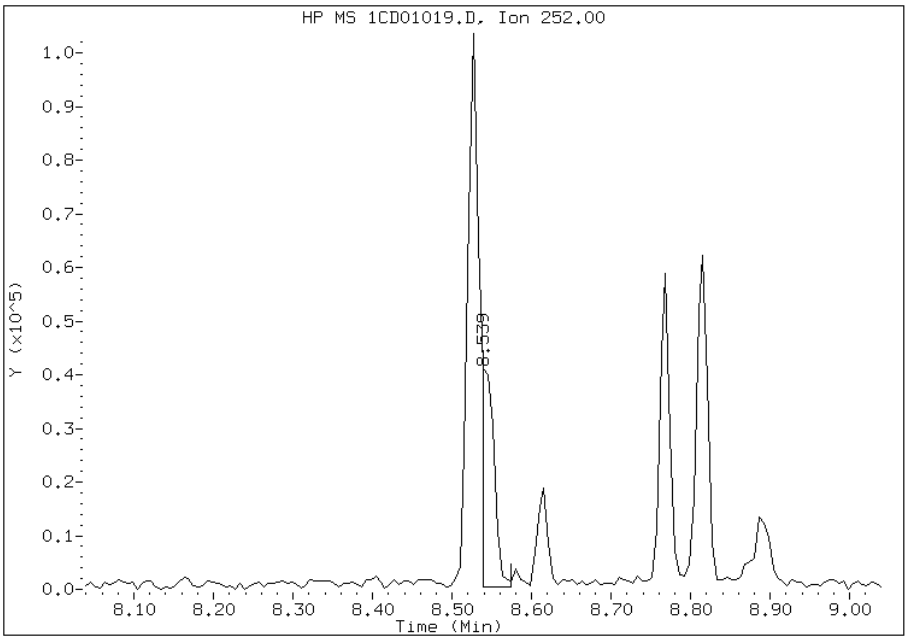
Manual Integration Results

RT: 8.54

Response: 43960

Amount: 2

Conc: 588



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01019.D
Inj. Date and Time: 01-APR-2013 16:41
Instrument ID: BSMC5973.i
Client ID: CV0663B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

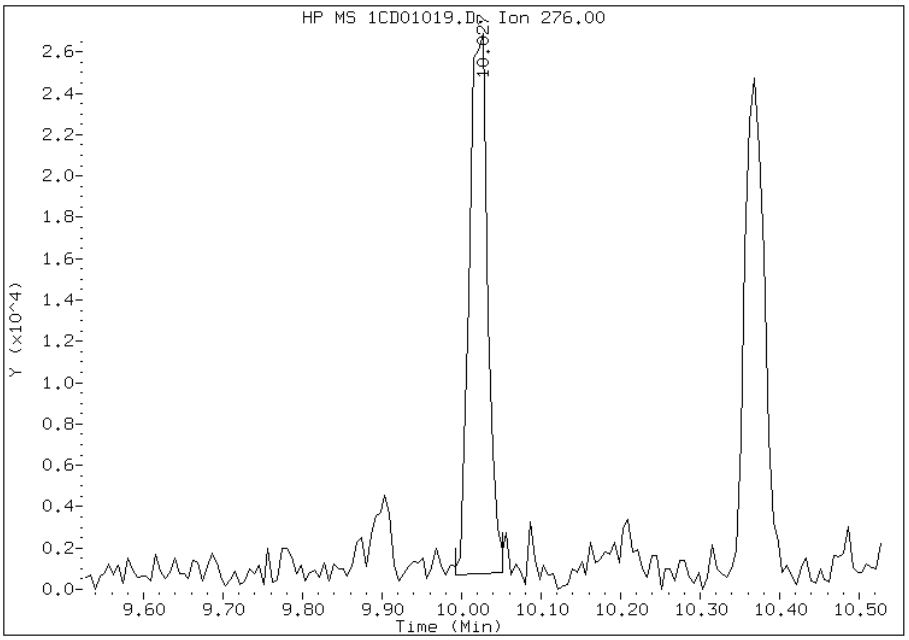
Processing Integration Results

RT: 10.03

Response: 41877

Amount: 2

Conc: 629



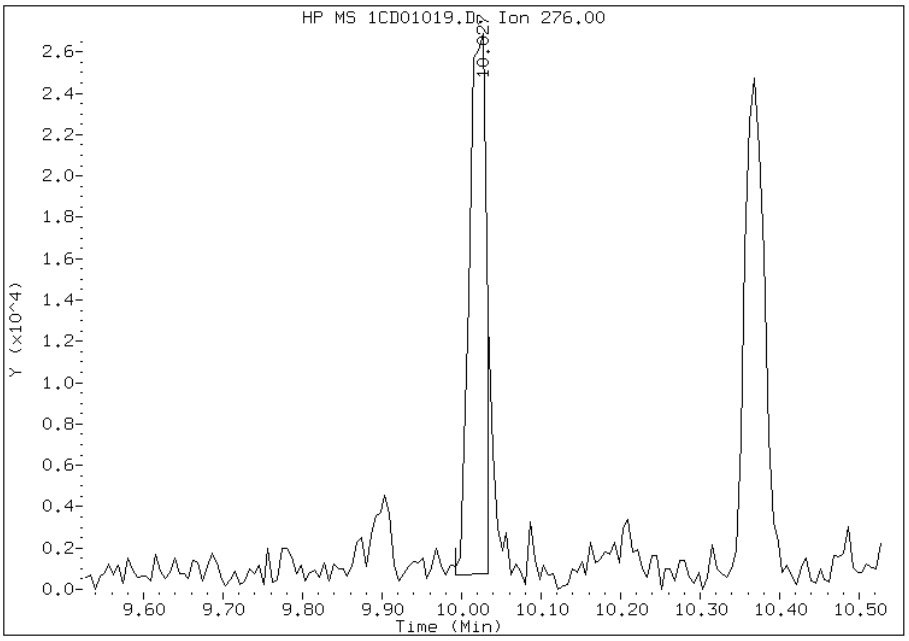
Manual Integration Results

RT: 10.03

Response: 38637

Amount: 2

Conc: 580



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: FM0017A-CS-SP | Lab Sample ID: 680-88632-27

Matrix: Solid | Lab File ID: 1CD01020.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 13:55

Extract. Method: 3546 | Date Extracted: 03/27/2013 15:04

Sample wt/vol: 15.08(g) | Date Analyzed: 04/01/2013 17:00

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

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

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

Analysis Batch No.: 135996 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	96
208-96-8	Acenaphthylene	75	J	190	24
120-12-7	Anthracene	41		40	20
56-55-3	Benzo[a]anthracene	490		38	19
50-32-8	Benzo[a]pyrene	460		50	25
205-99-2	Benzo[b]fluoranthene	620		59	29
191-24-2	Benzo[g,h,i]perylene	350		96	21
207-08-9	Benzo[k]fluoranthene	280		38	17
218-01-9	Chrysene	520		43	22
53-70-3	Dibenz(a,h)anthracene	120		96	20
206-44-0	Fluoranthene	620		96	19
86-73-7	Fluorene	26	J	96	20
193-39-5	Indeno[1,2,3-cd]pyrene	270		96	34
90-12-0	1-Methylnaphthalene	230		190	21
91-57-6	2-Methylnaphthalene	290		190	34
91-20-3	Naphthalene	150	J	190	21
85-01-8	Phenanthrene	420		38	19
129-00-0	Pyrene	580		96	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01020.D
Lab Smp Id: 680-88632-A-27-A Client Smp ID: FM0017A-CS-SP
Inj Date : 01-APR-2013 17:00
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-27-a
Misc Info : 680-88632-A-27-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 20
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	17.220	% 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	3.716	3.716	(1.000)	679768	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	523567	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	938977	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	27721	1.95536	626.5544
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1070191	40.0000	
* 23 Perylene-d12	264	8.874	8.886	(1.000)	1028835	40.0000	
2 Naphthalene	128	3.733	3.733	(1.005)	8339	0.47121	150.9902(Q)
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	10527	0.89177	285.7492
4 1-Methylnaphthalene	142	4.215	4.222	(1.135)	7630	0.70969	227.4053
5 Acenaphthylene	152	4.715	4.716	(0.982)	4972	0.23554	75.4753
9 Fluorene	166	5.139	5.145	(1.070)	1332	0.08028	25.7226(Q)
11 Phenanthrene	178	5.768	5.768	(1.003)	35980	1.32518	424.6264
12 Anthracene	178	5.798	5.804	(1.008)	3438	0.12947	41.4873(Q)
13 Carbazole	167	5.909	5.910	(1.028)	3661	0.15510	49.6983

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.604	6.604	(1.148)	57608	1.93746	620.8213
16 Pyrene	202	6.774	6.774	(0.881)	51789	1.80074	577.0105
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	47479	1.53715	492.5469
19 Chrysene	228	7.709	7.715	(1.002)	50072	1.61988	519.0568
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.961)	51804	1.92671	617.3752
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.963)	24278	0.88021	282.0441
22 Benzo(a)pyrene	252	8.815	8.827	(0.993)	37593	1.43944	461.2401
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.039	(1.129)	20915	0.85131	272.7841(M)
25 Dibenzo(a,h)anthracene	278	10.039	10.056	(1.131)	8794	0.36594	117.2590(M)
26 Benzo(g,h,i)perylene	276	10.368	10.386	(1.168)	28366	1.10372	353.6655(M)

QC Flag Legend

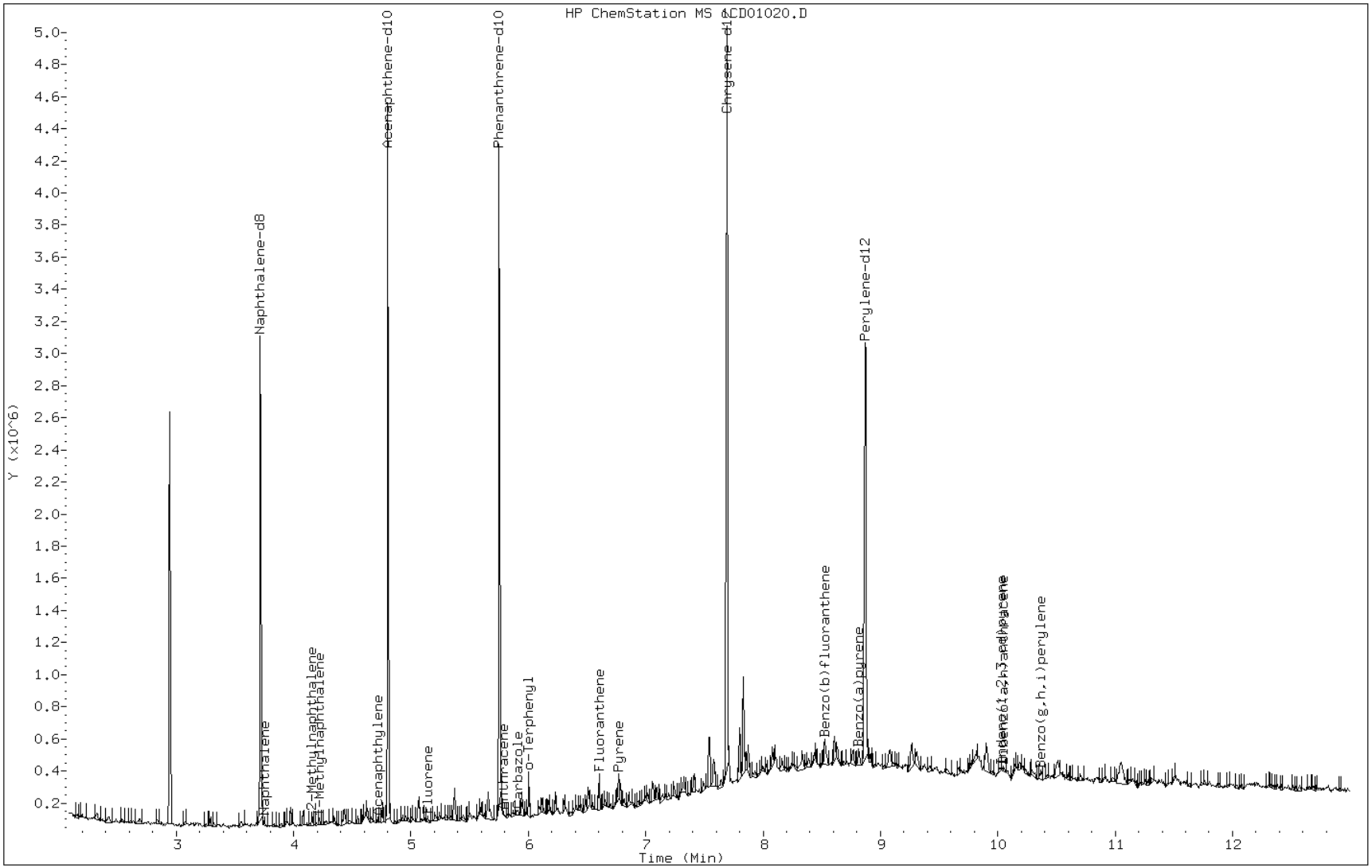
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC



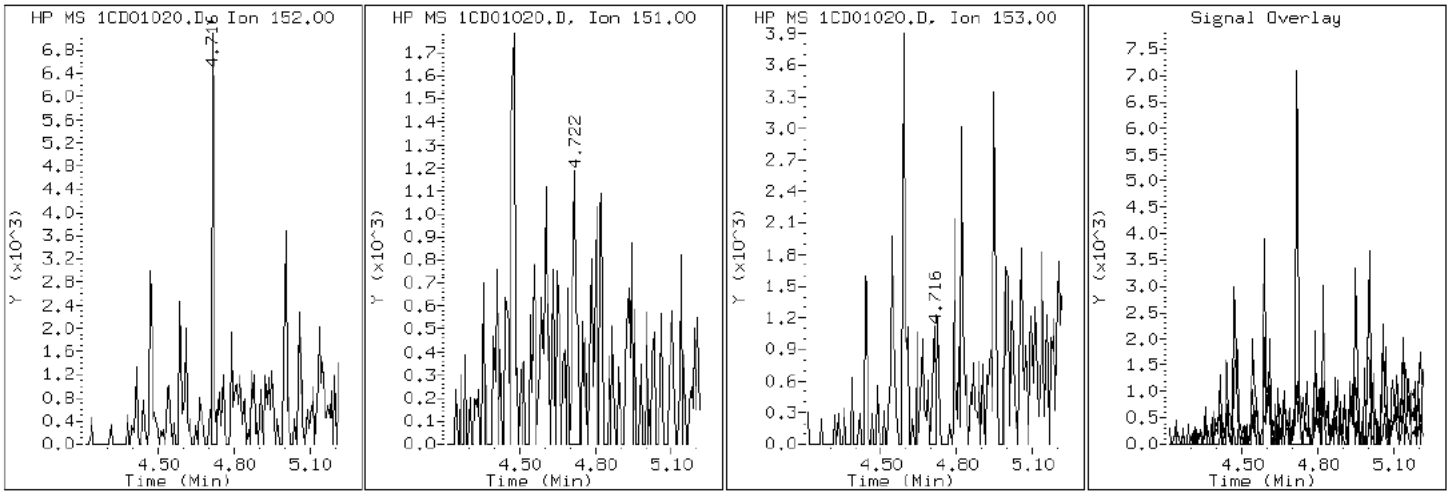
Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC

5 Acenaphthylene



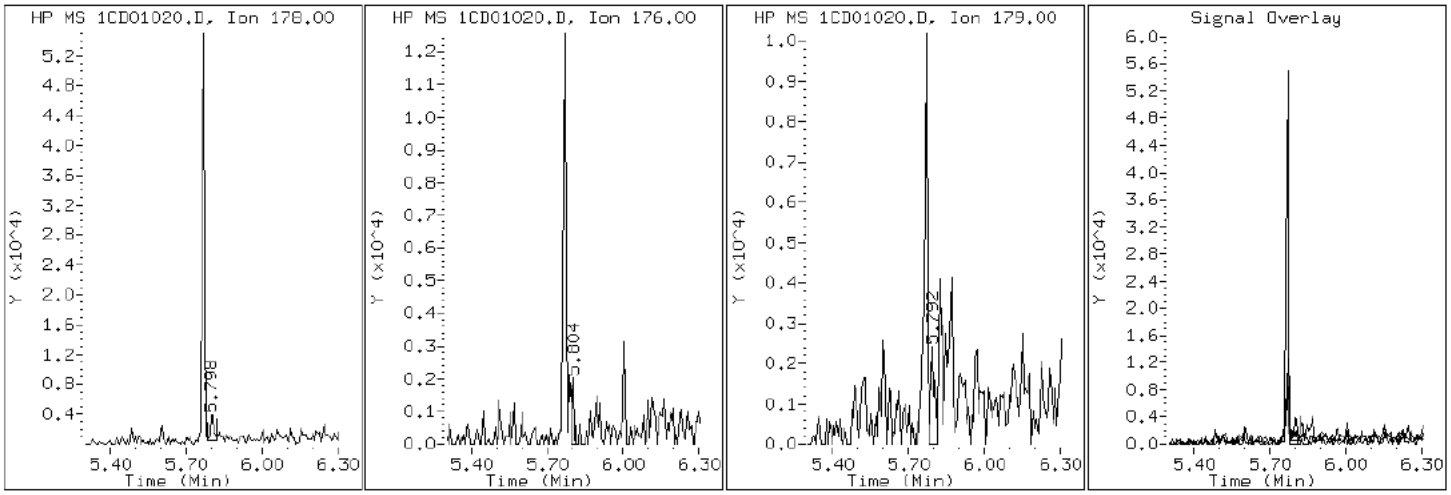
Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC

12 Anthracene



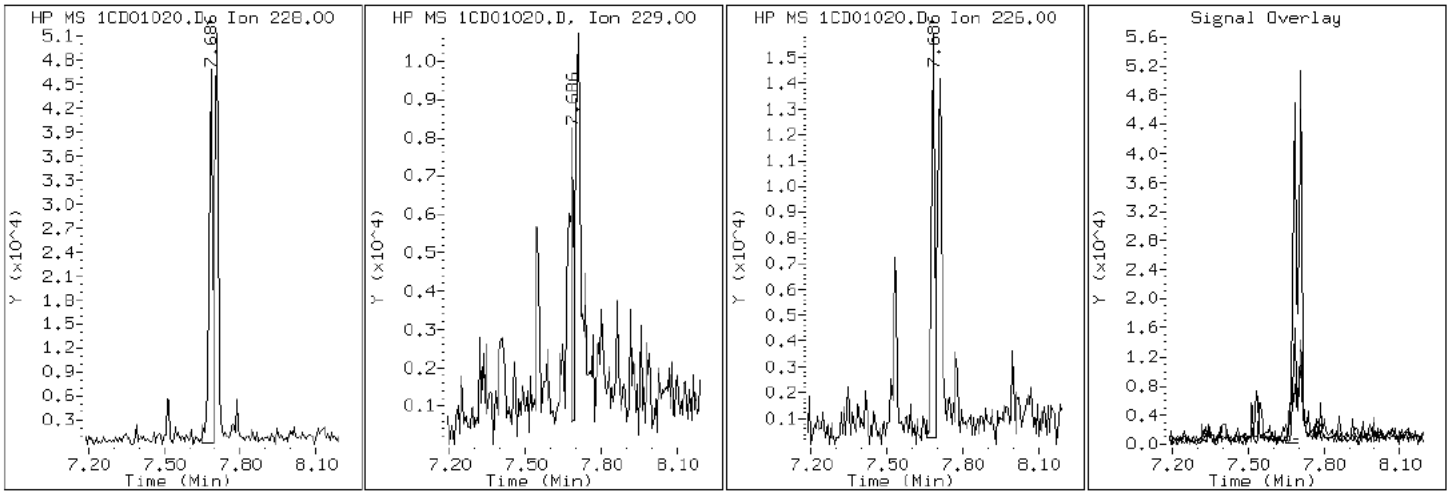
Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC

17 Benzo(a)anthracene



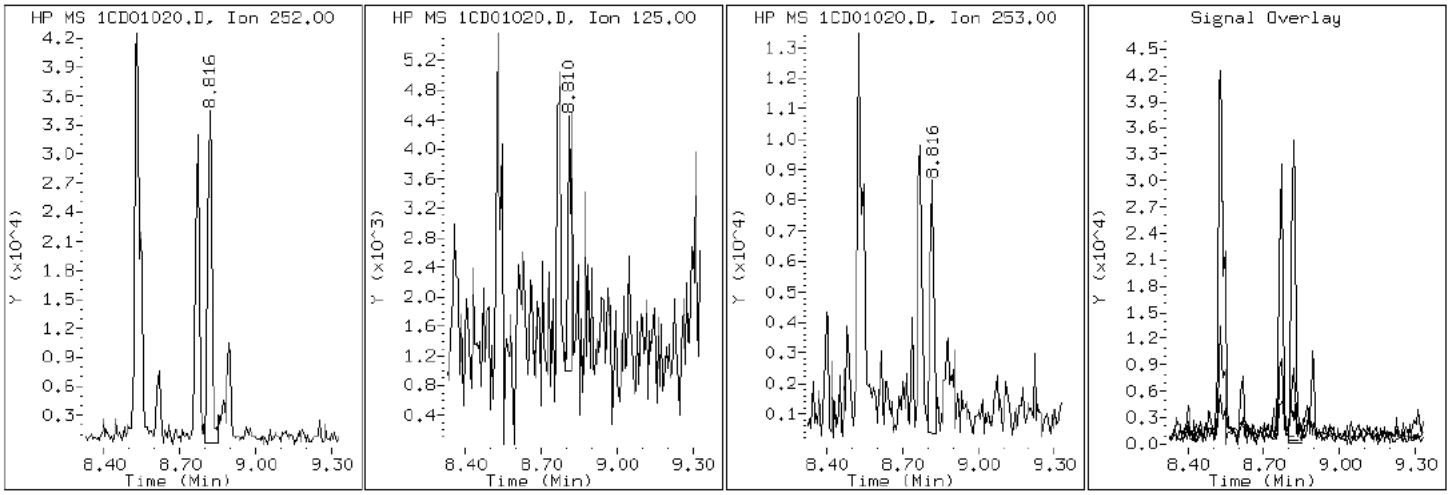
Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC

22 Benzo(a)pyrene



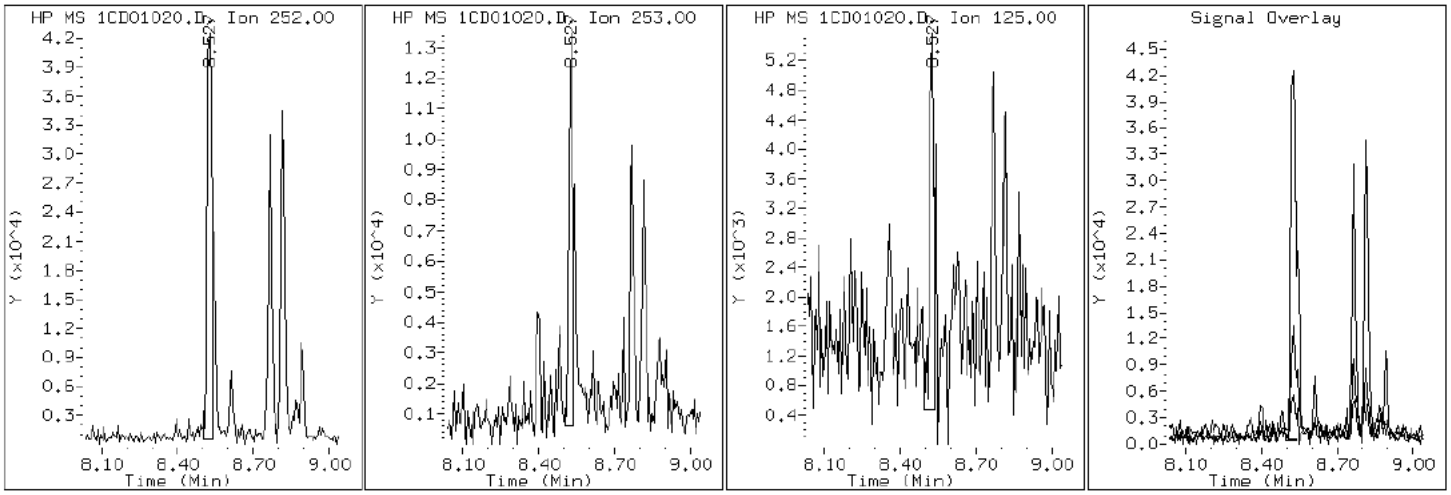
Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC

20 Benzo(b)fluoranthene



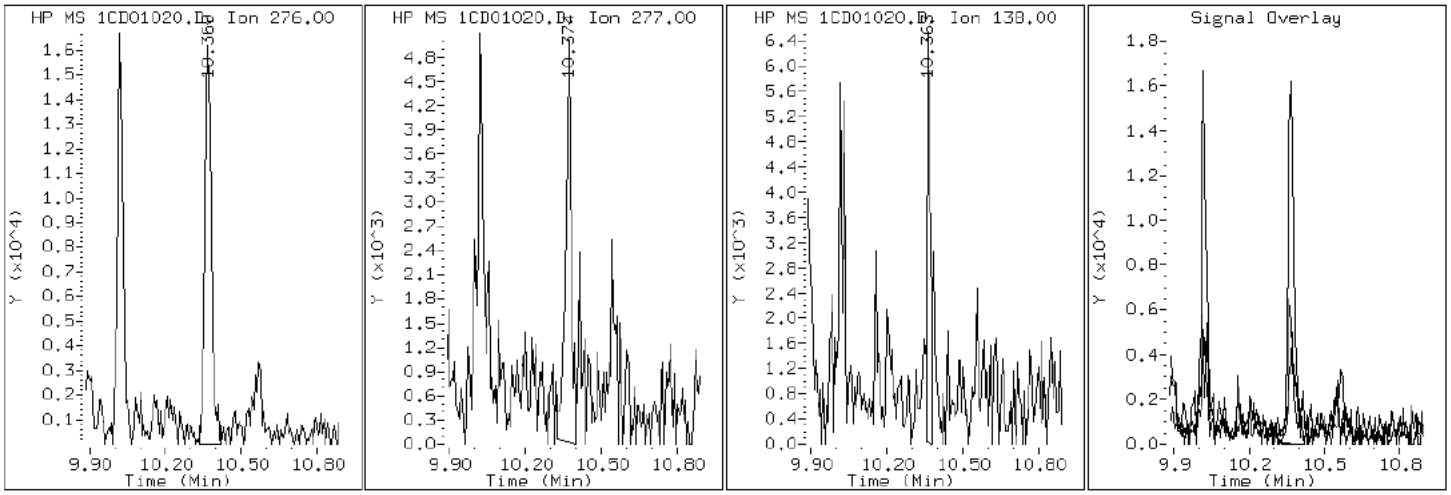
Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC

26 Benzo(g,h,i)perylene



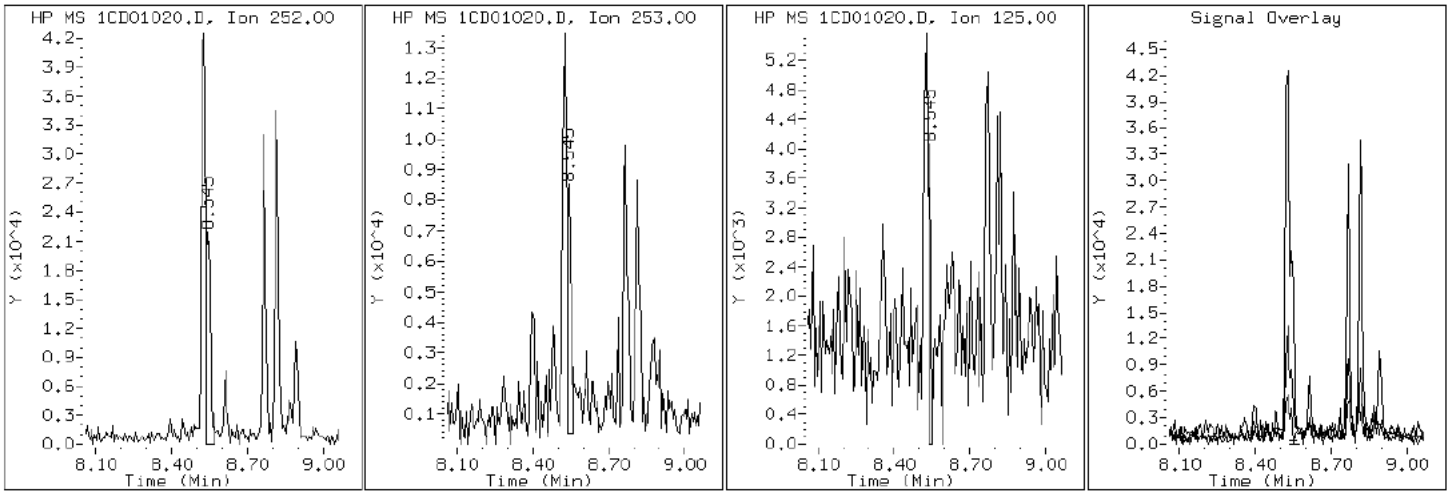
Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC

21 Benzo(k)fluoranthene



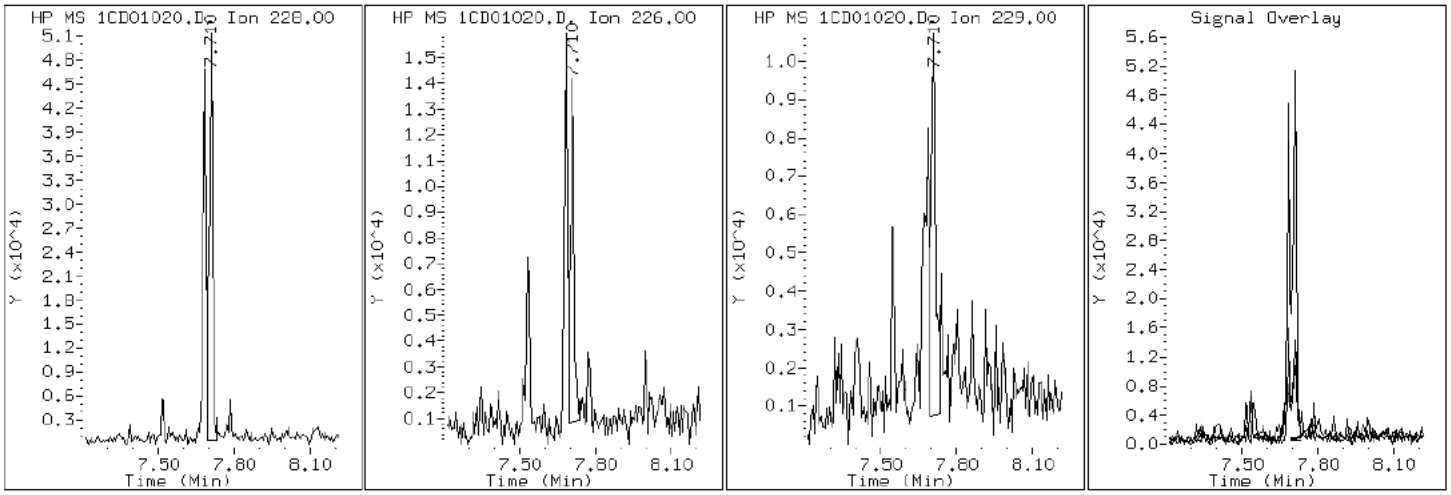
Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC

19 Chrysene



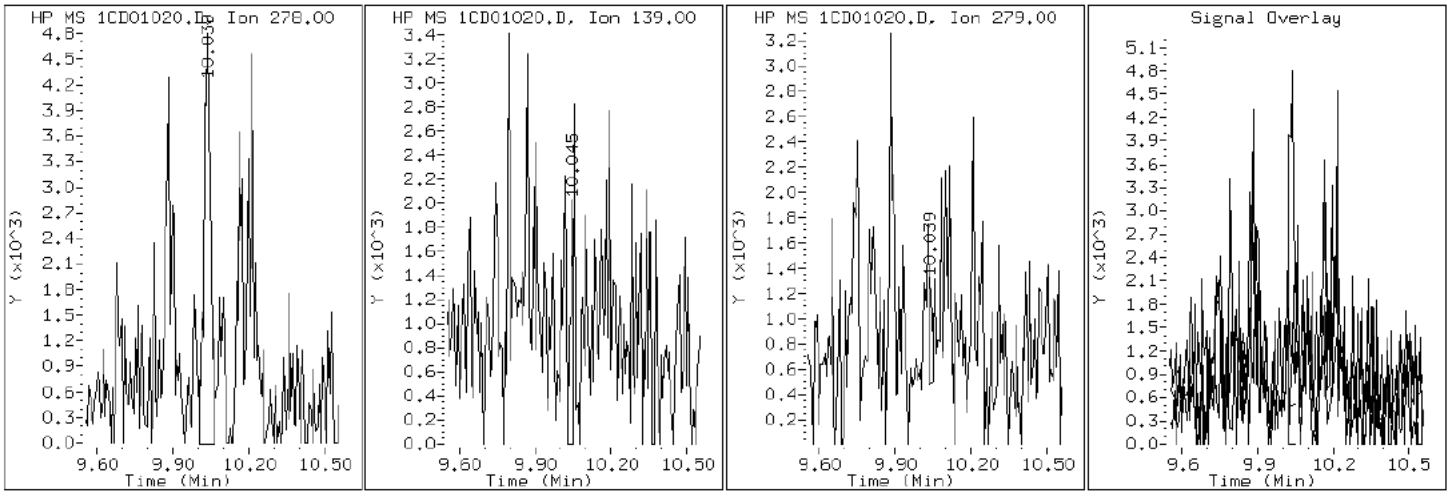
Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC

25 Dibenzo(a,h)anthracene



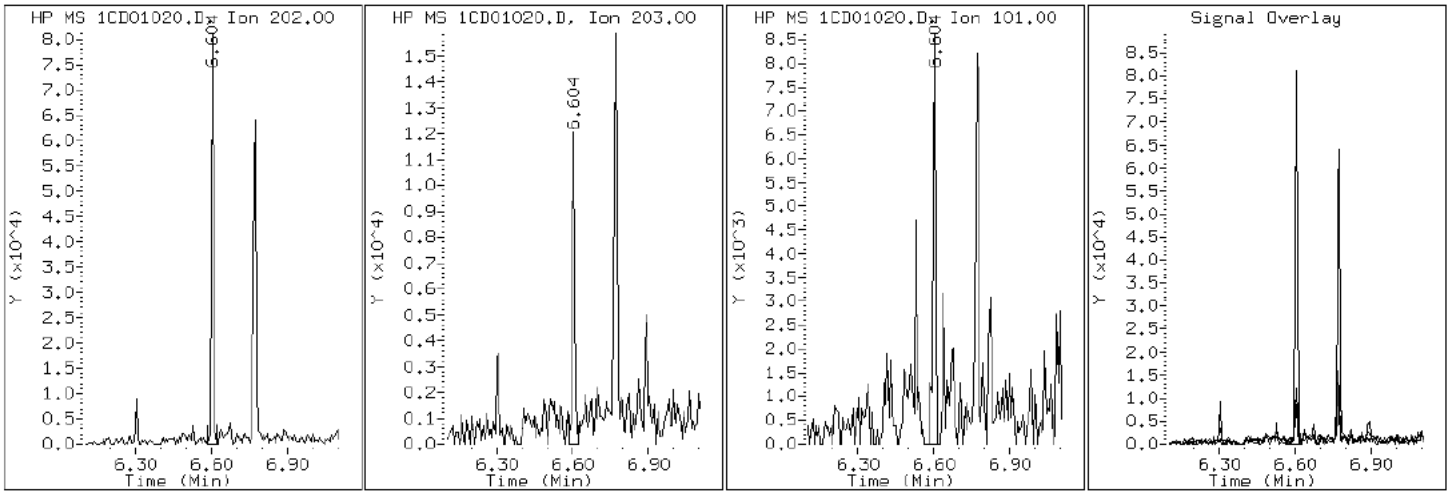
Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC

15 Fluoranthene



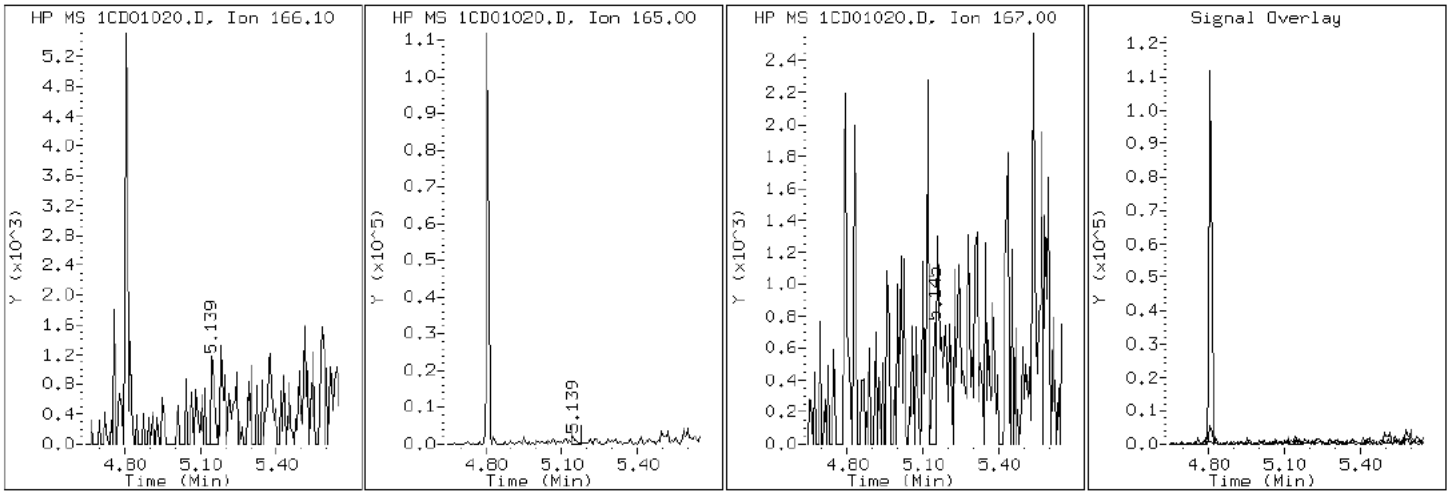
Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC

9 Fluorene



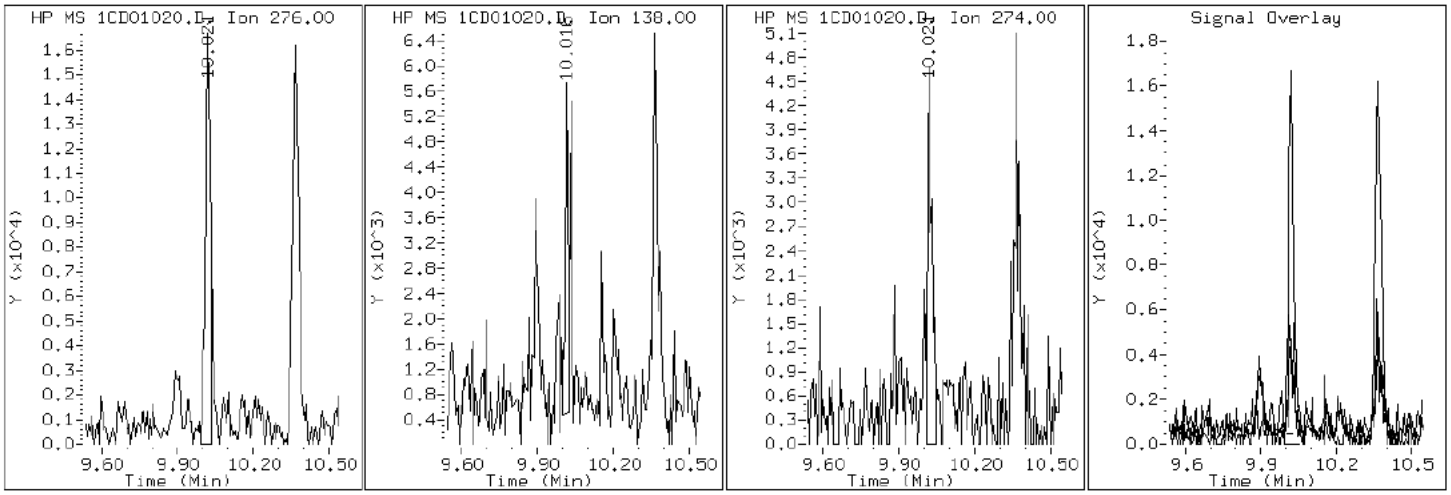
Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC

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



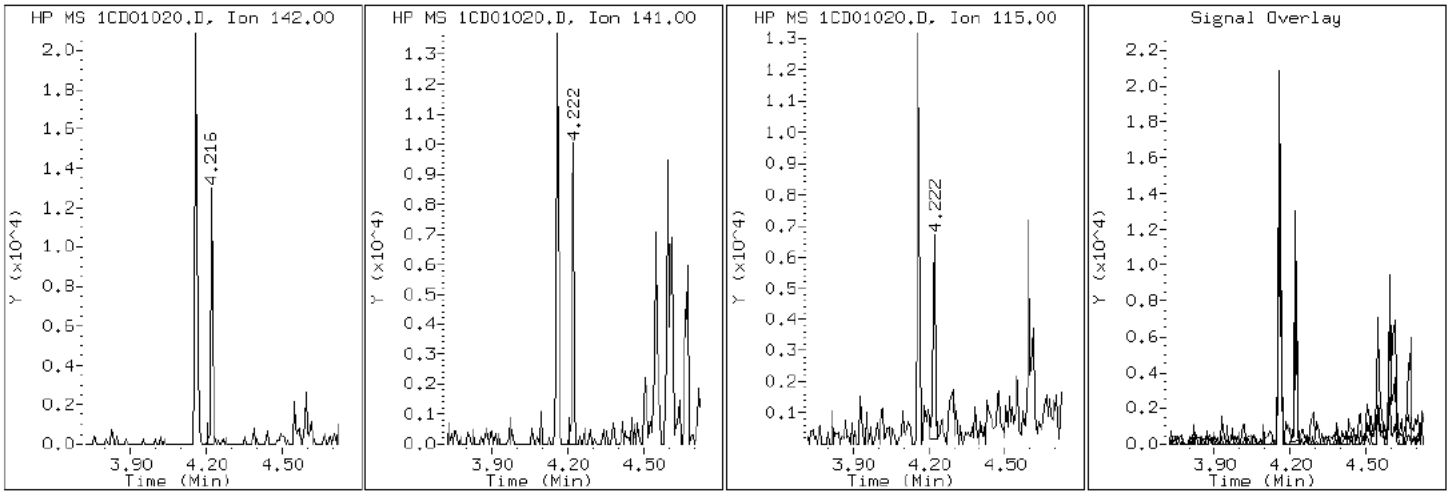
Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC

4 1-Methylnaphthalene



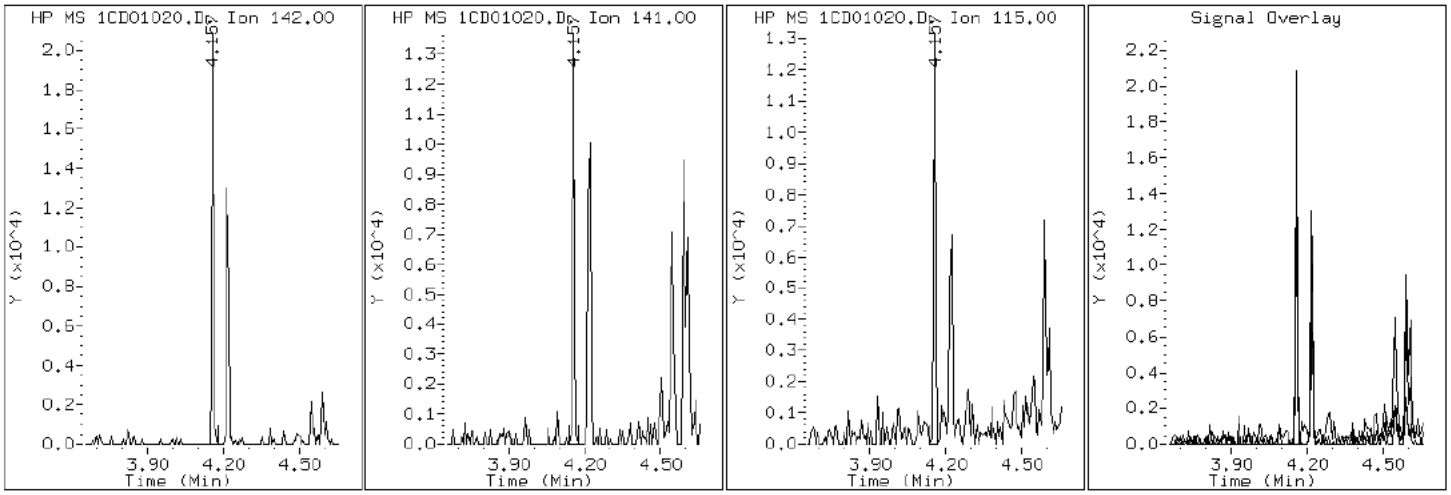
Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC

3 2-Methylnaphthalene



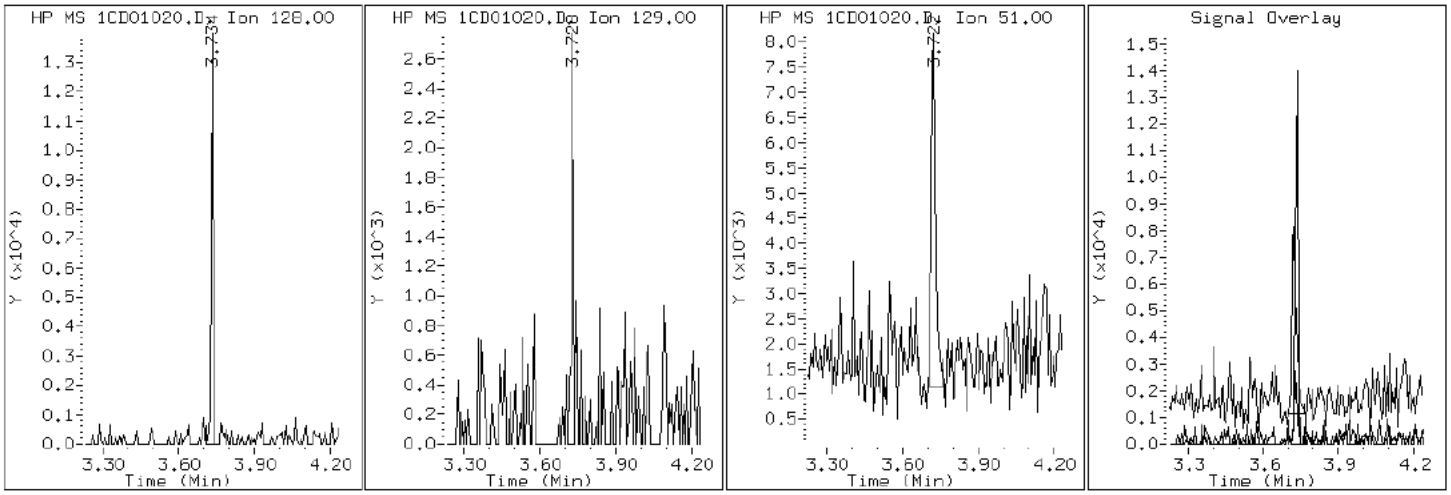
Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC

2 Naphthalene



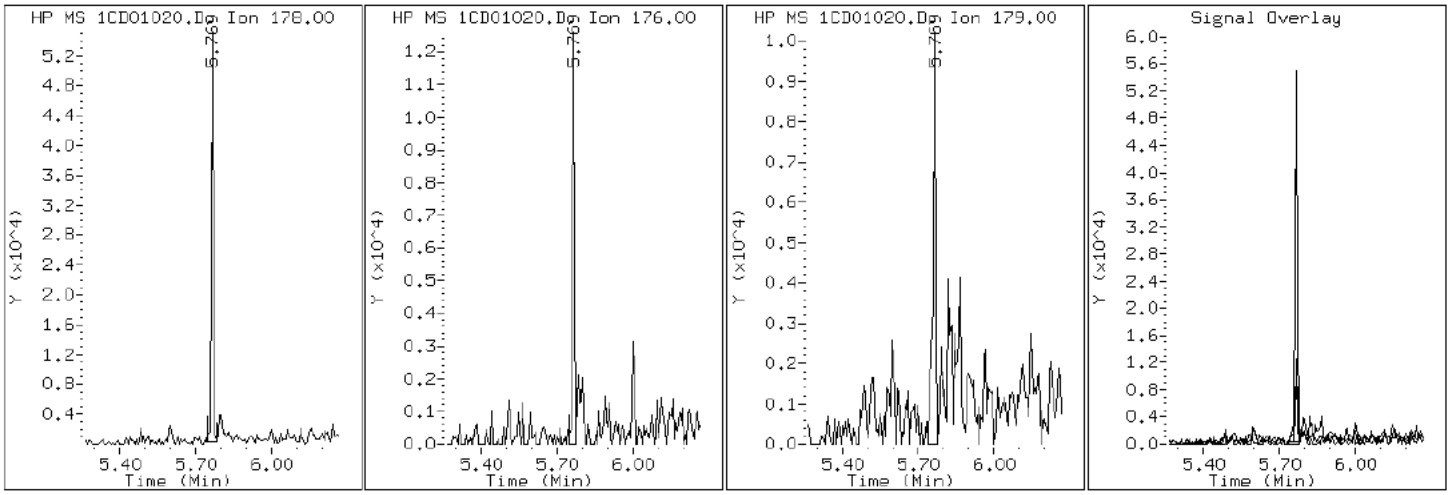
Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC

11 Phenanthrene



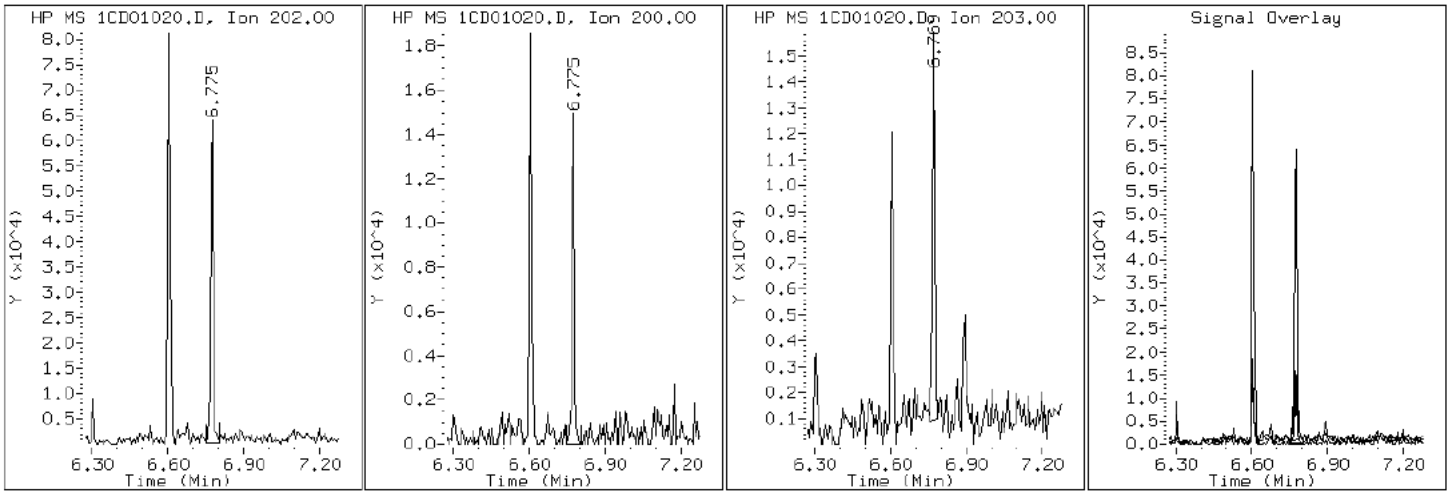
Data File: 1CD01020.D

Date: 01-APR-2013 17:00

Client ID: FM0017A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-27-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD01020.D
Inj. Date and Time: 01-APR-2013 17:00
Instrument ID: BSMC5973.i
Client ID: FM0017A-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/03/2013

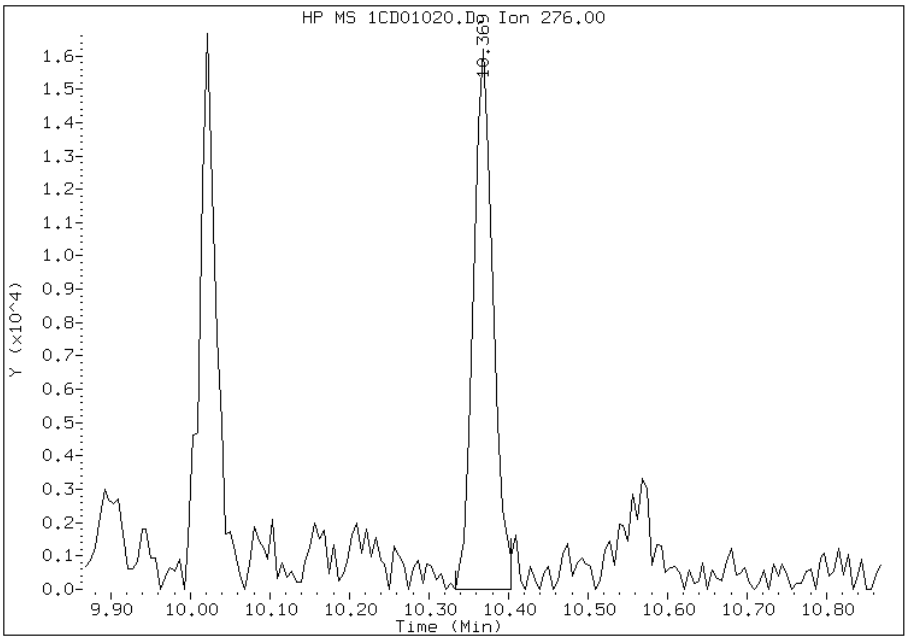
Processing Integration Results

RT: 10.37

Response: 27726

Amount: 1

Conc: 346



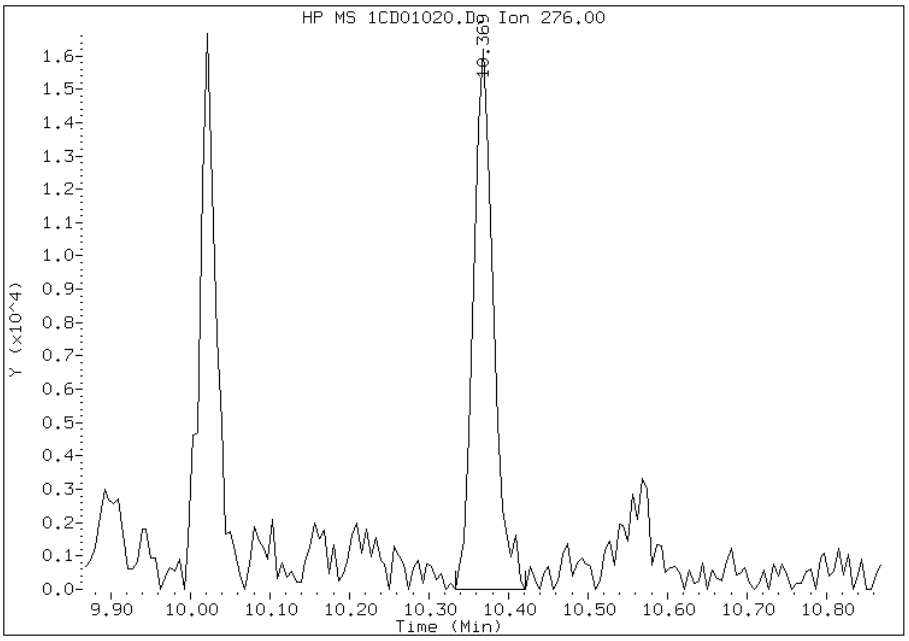
Manual Integration Results

RT: 10.37

Response: 28366

Amount: 1

Conc: 354



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01020.D
Inj. Date and Time: 01-APR-2013 17:00
Instrument ID: BSMC5973.i
Client ID: FM0017A-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/03/2013

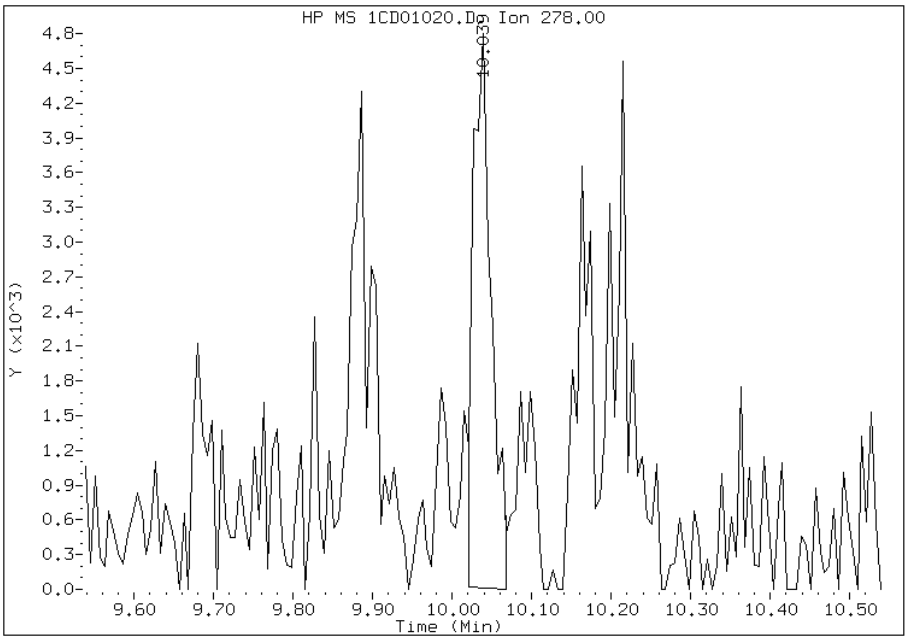
Processing Integration Results

RT: 10.04

Response: 7699

Amount: 0

Conc: 103



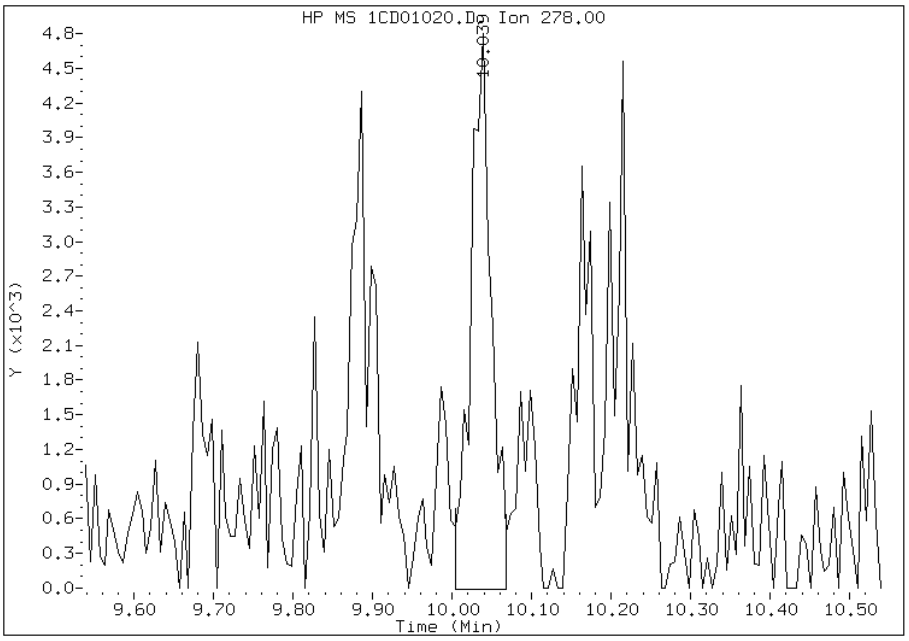
Manual Integration Results

RT: 10.04

Response: 8794

Amount: 0

Conc: 117



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01020.D
Inj. Date and Time: 01-APR-2013 17:00
Instrument ID: BSMC5973.i
Client ID: FM0017A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

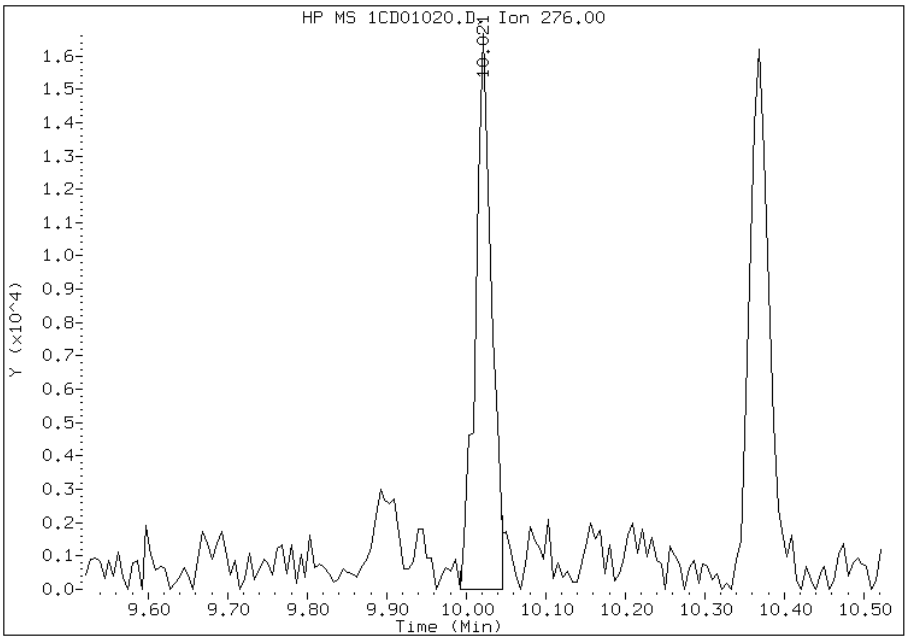
Processing Integration Results

RT: 10.02

Response: 23287

Amount: 1

Conc: 304



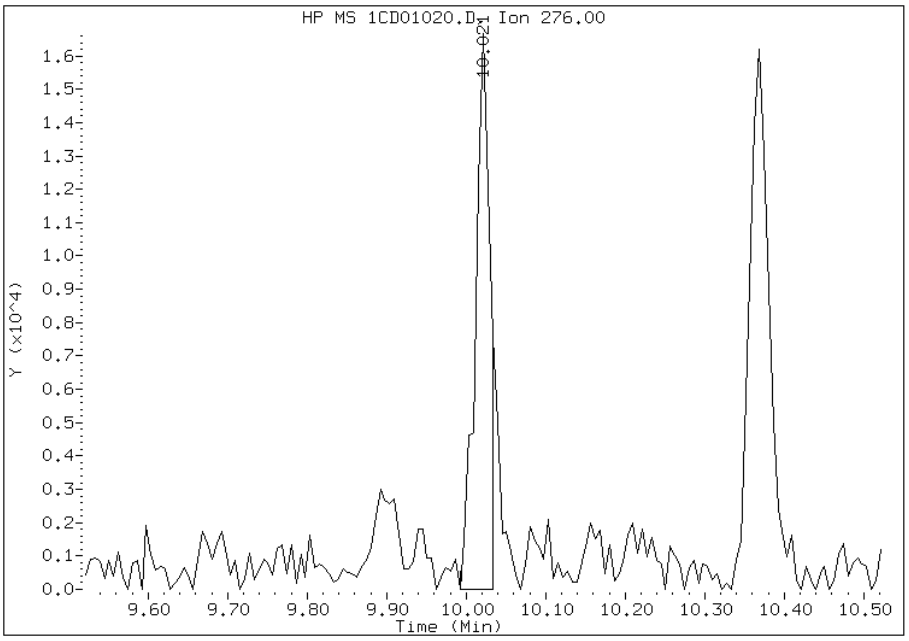
Manual Integration Results

RT: 10.02

Response: 20915

Amount: 1

Conc: 273



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: FM0017B-CS-SP | Lab Sample ID: 680-88632-28

Matrix: Solid | Lab File ID: 1CD01021.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 14:05

Extract. Method: 3546 | Date Extracted: 03/27/2013 15:04

Sample wt/vol: 14.98(g) | Date Analyzed: 04/01/2013 17:18

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

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

% Moisture: 24.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135996 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	31	J	210	27
120-12-7	Anthracene	44	J	45	22
56-55-3	Benzo[a]anthracene	230		43	21
50-32-8	Benzo[a]pyrene	210		55	28
205-99-2	Benzo[b]fluoranthene	320		65	32
191-24-2	Benzo[g,h,i]perylene	200		110	23
207-08-9	Benzo[k]fluoranthene	140		43	19
218-01-9	Chrysene	270		48	24
53-70-3	Dibenz(a,h)anthracene	72	J	110	22
206-44-0	Fluoranthene	370		110	21
86-73-7	Fluorene	26	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	170		110	38
90-12-0	1-Methylnaphthalene	120	J	210	23
91-57-6	2-Methylnaphthalene	130	J	210	38
91-20-3	Naphthalene	69	J	210	23
85-01-8	Phenanthrene	290		43	21
129-00-0	Pyrene	370		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01021.D
Lab Smp Id: 680-88632-A-28-A Client Smp ID: FM0017B-CS-SP
Inj Date : 01-APR-2013 17:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-28-a
Misc Info : 680-88632-A-28-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 21
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	24.675	% 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	3.716	3.716	(1.000)	653619	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	508733	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	937932	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	31257	2.20723	782.4541
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1012717	40.0000	
* 23 Perylene-d12	264	8.868	8.886	(1.000)	1013888	40.0000	
2 Naphthalene	128	3.727	3.733	(1.003)	3298	0.19382	68.7067(Q)
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	4117	0.36271	128.5806(Q)
4 1-Methylnaphthalene	142	4.216	4.222	(1.135)	3444	0.33315	118.1009
5 Acenaphthylene	152	4.716	4.716	(0.982)	1797	0.08761	31.0586
9 Fluorene	166	5.145	5.145	(1.071)	1164	0.07220	25.5932(Q)
11 Phenanthrene	178	5.768	5.768	(1.003)	22004	0.81133	287.6134
12 Anthracene	178	5.804	5.804	(1.009)	3319	0.12513	44.3586
13 Carbazole	167	5.910	5.910	(1.028)	2888	0.12249	43.4211(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.604	6.604	(1.148)	31136	1.04833	371.6279
16 Pyrene	202	6.774	6.774	(0.881)	28022	1.02964	365.0031
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	18795	0.64303	227.9500
19 Chrysene	228	7.709	7.715	(1.002)	22243	0.76042	269.5657
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.962)	23767	0.89698	317.9758(M)
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.964)	10482	0.38563	136.7043(QM)
22 Benzo(a)pyrene	252	8.815	8.827	(0.994)	15058	0.58507	207.4059
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.039	(1.130)	11606	0.47937	169.9329(M)
25 Dibenzo(a,h)anthracene	278	10.027	10.056	(1.131)	4793	0.20239	71.7465(M)
26 Benzo(g,h,i)perylene	276	10.362	10.386	(1.168)	13964	0.55135	195.4511(M)

QC Flag Legend

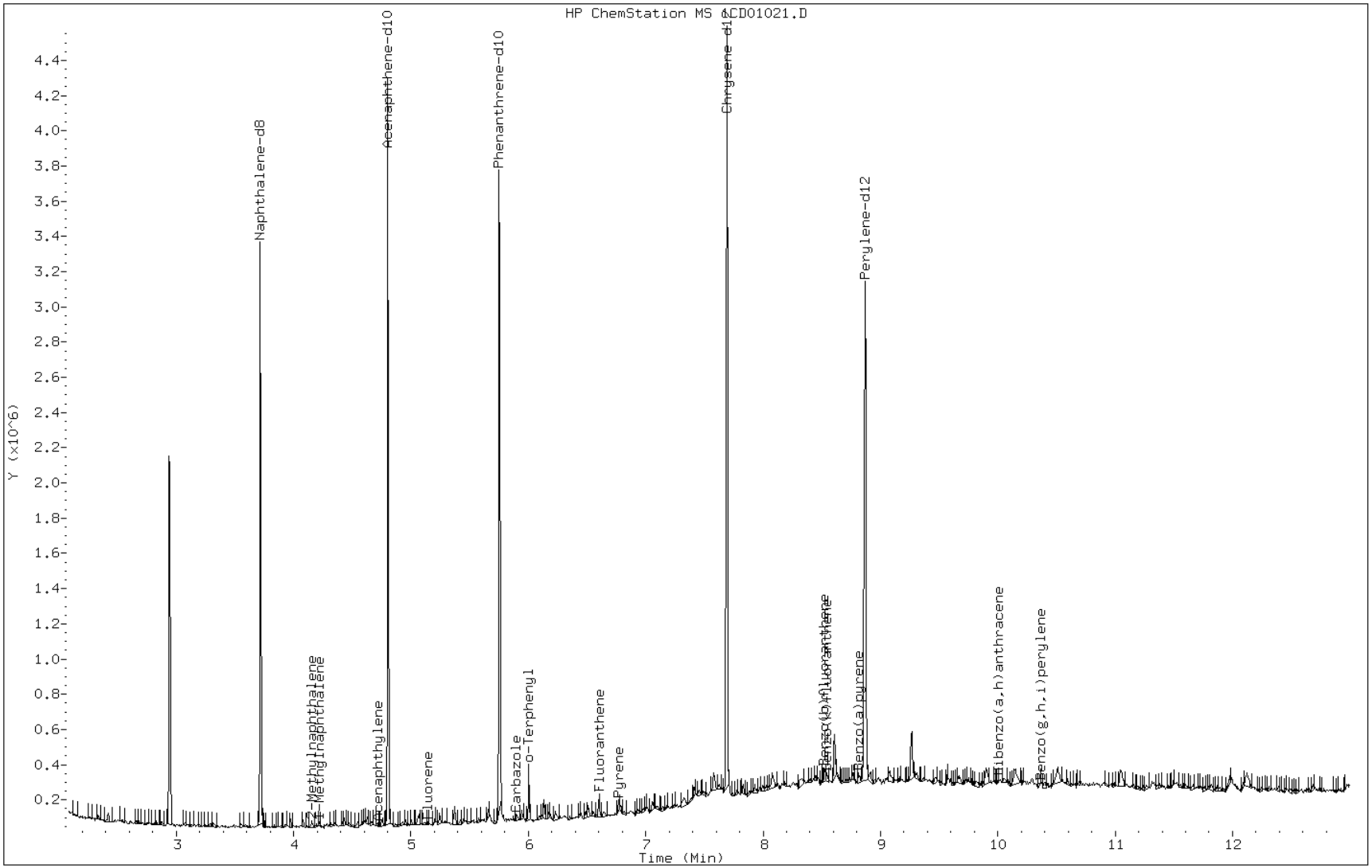
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC



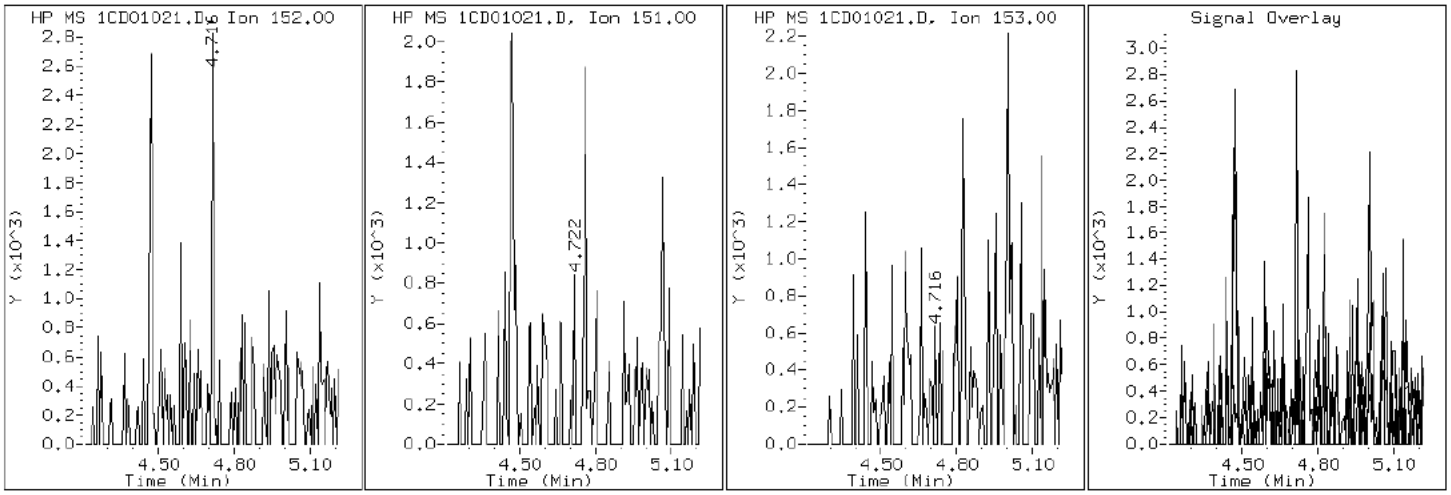
Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC

5 Acenaphthylene



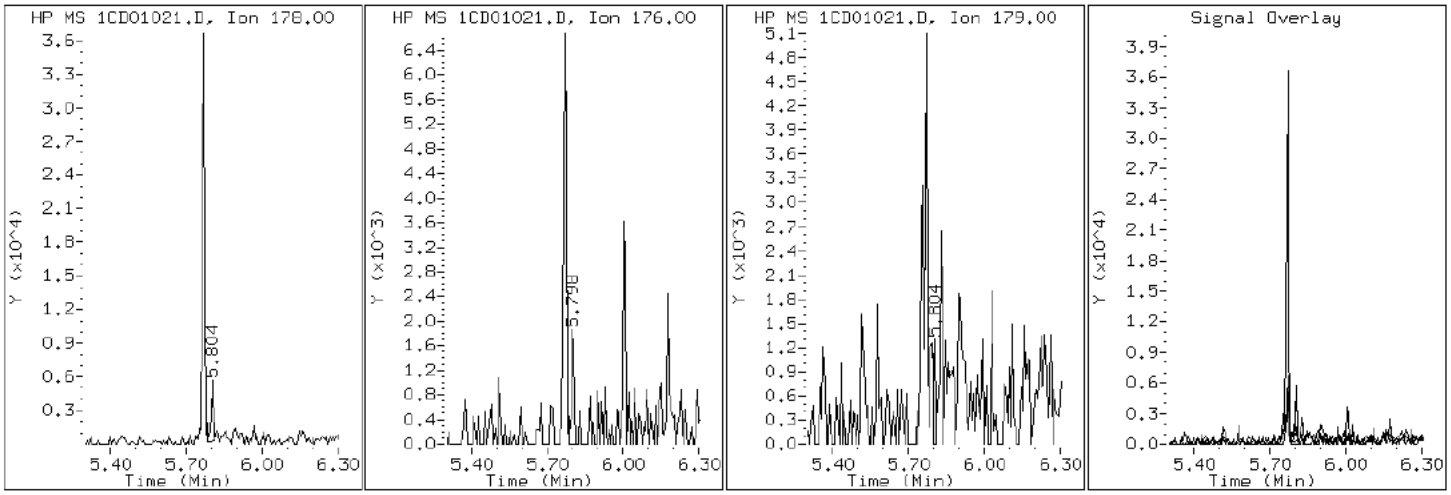
Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC

12 Anthracene



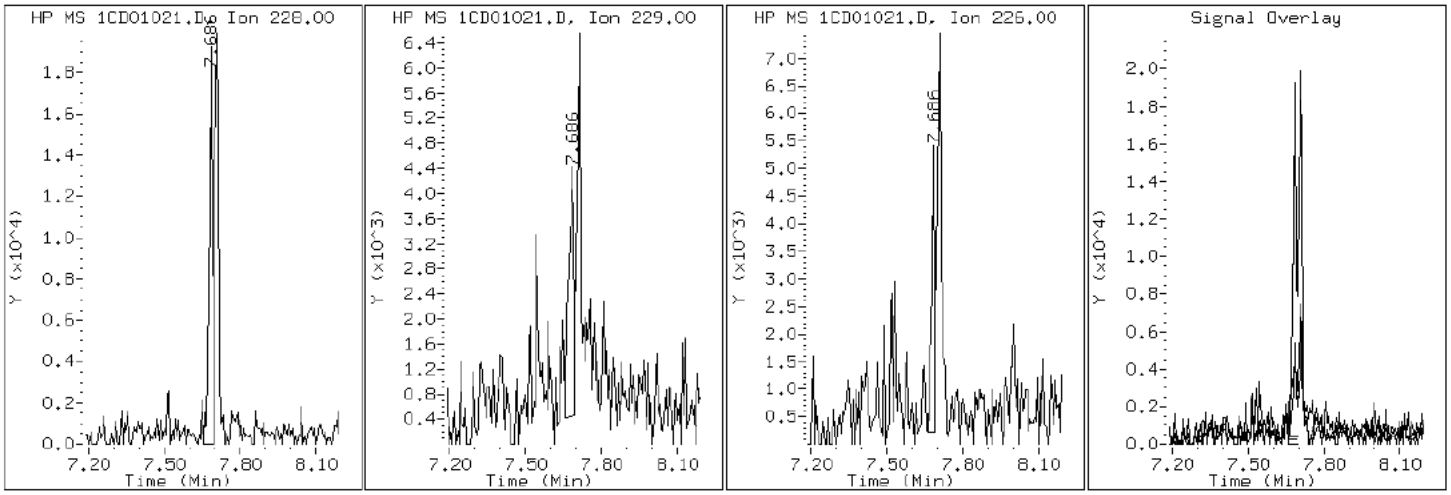
Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC

17 Benzo(a)anthracene



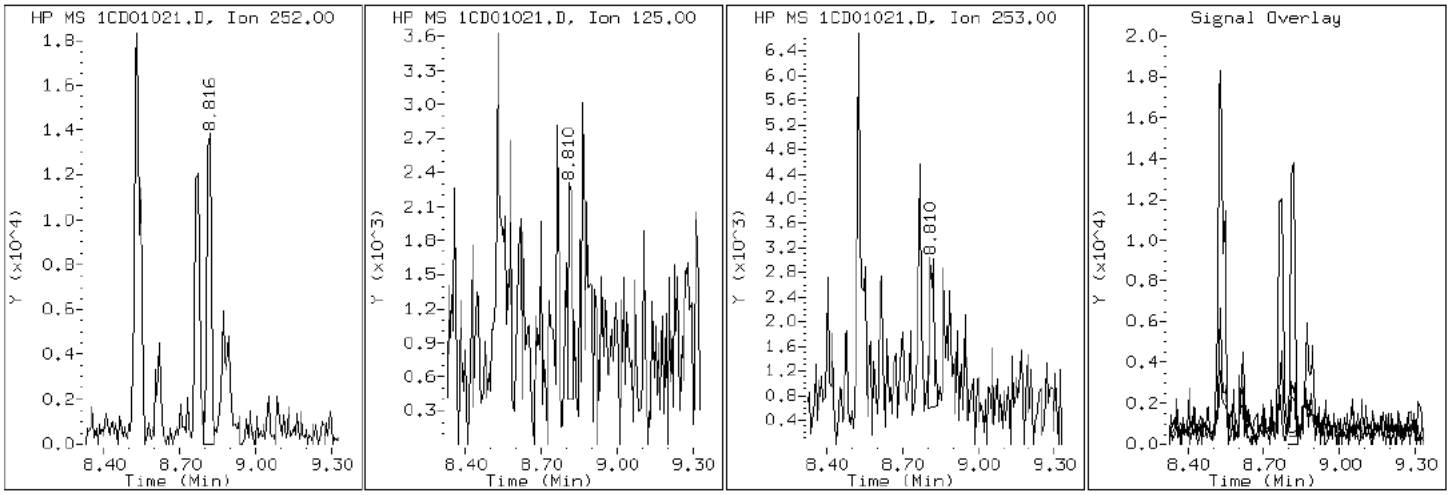
Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC

22 Benzo(a)pyrene



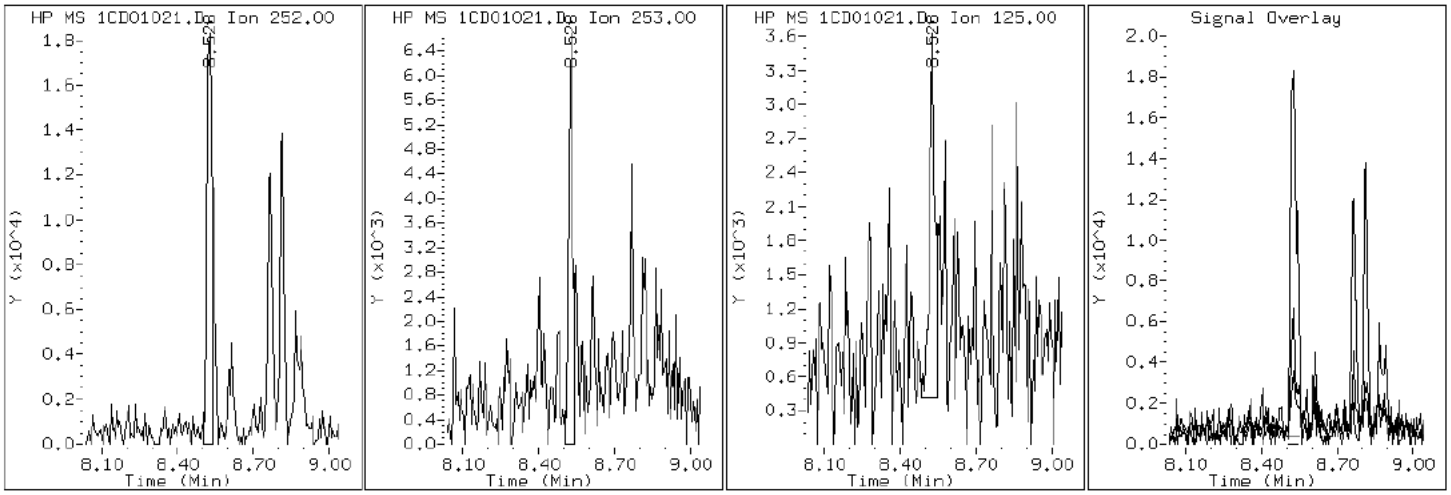
Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC

20 Benzo(b)fluoranthene



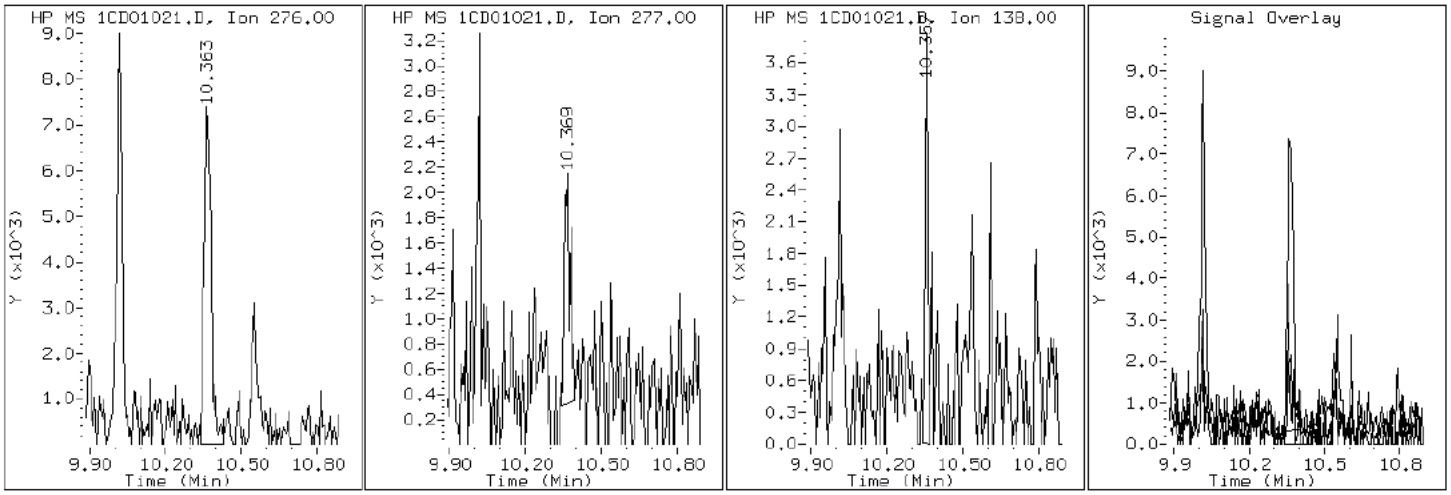
Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC

26 Benzo(g,h,i)perylene



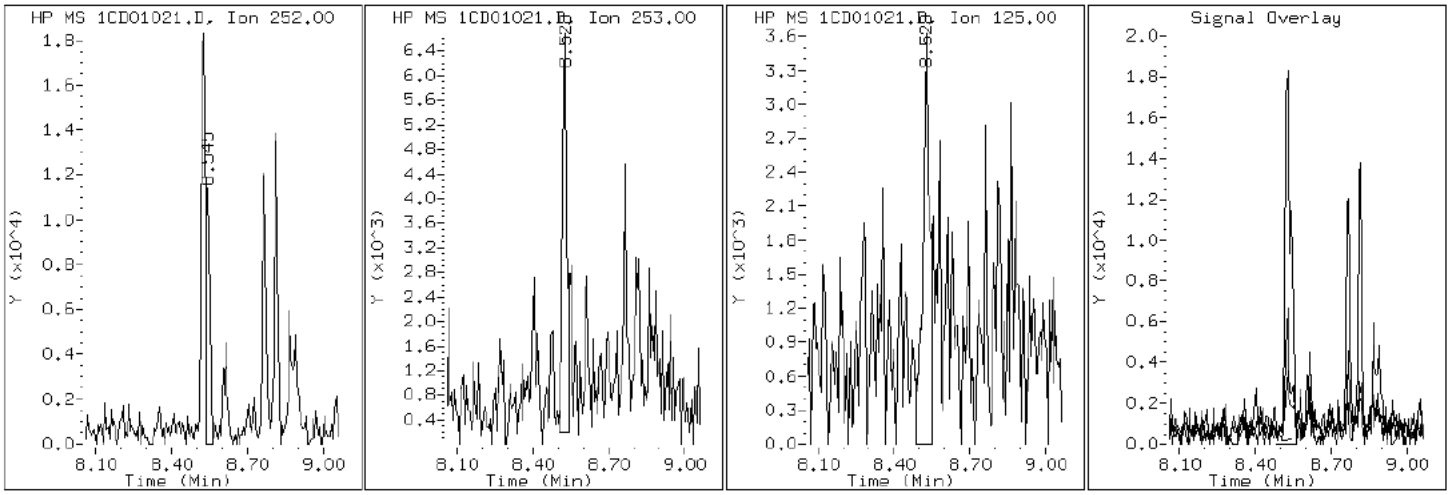
Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC

21 Benzo(k)fluoranthene



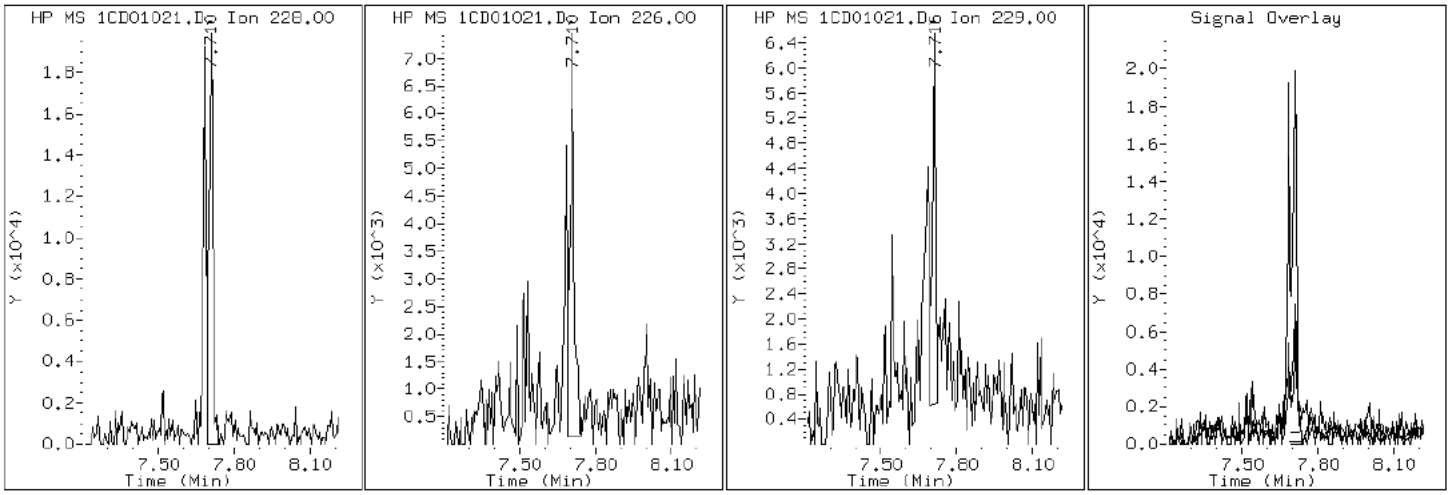
Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC

19 Chrysene



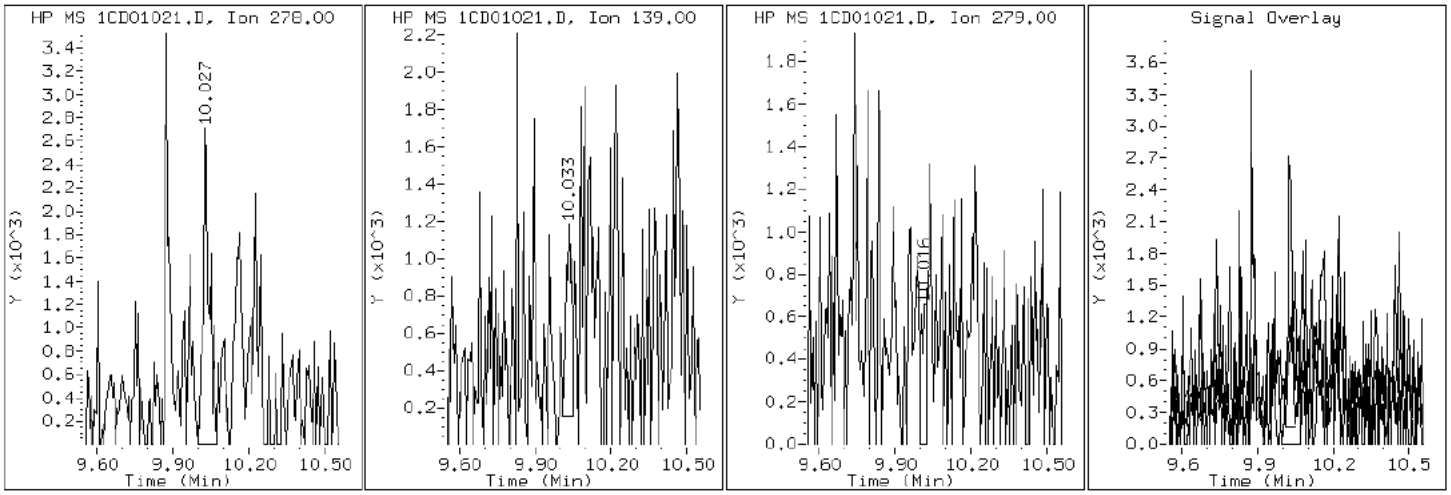
Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC

25 Dibenzo(a,h)anthracene



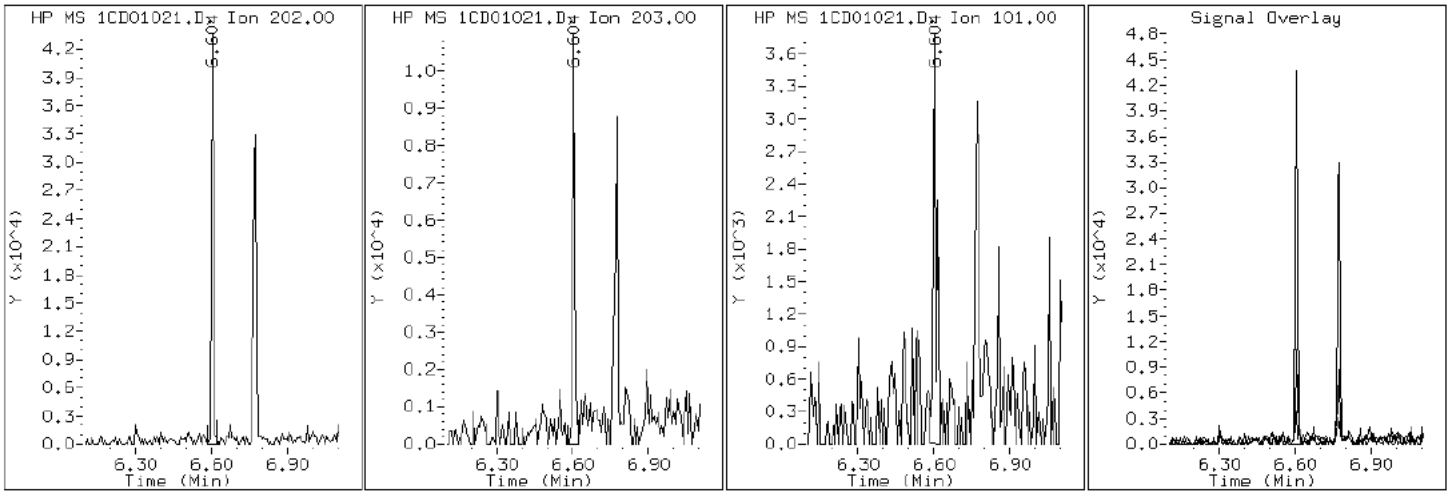
Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC

15 Fluoranthene



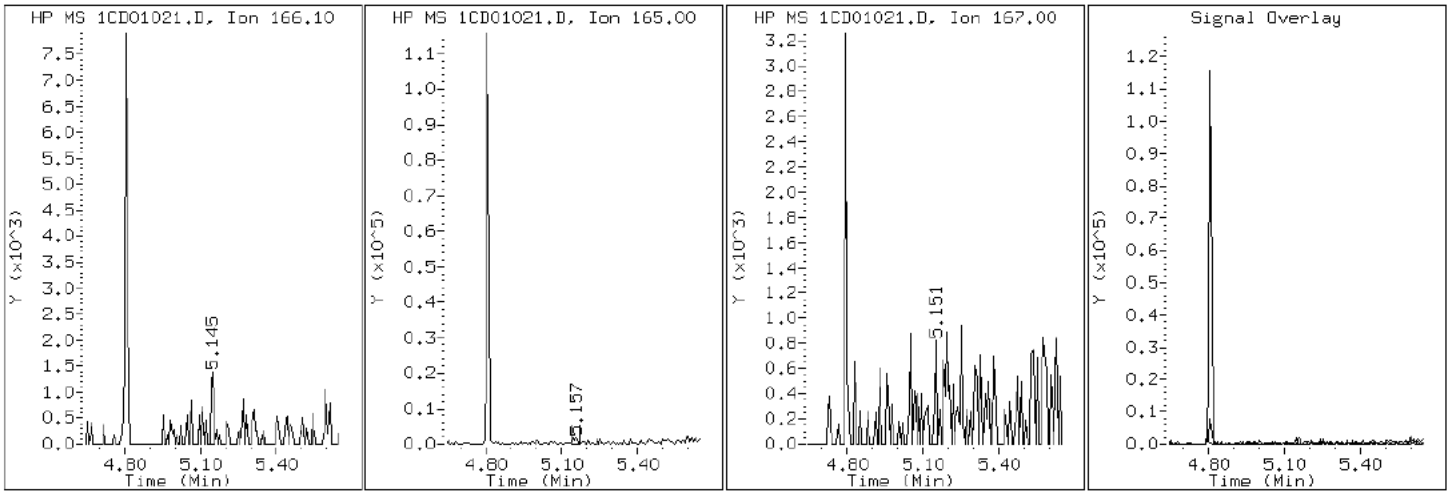
Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC

9 Fluorene



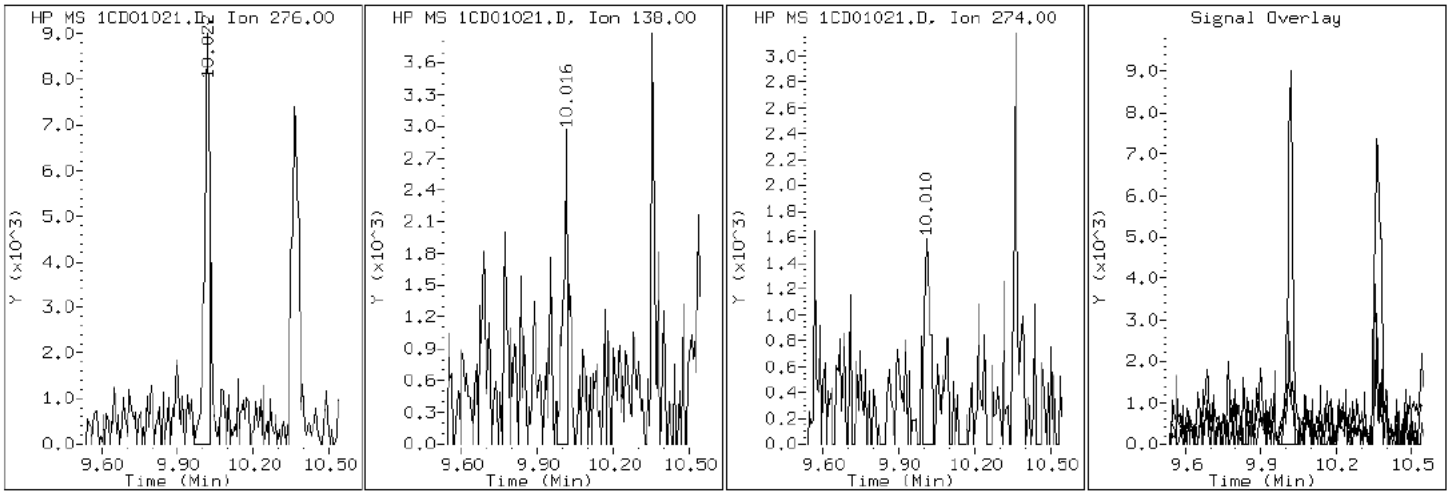
Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC

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



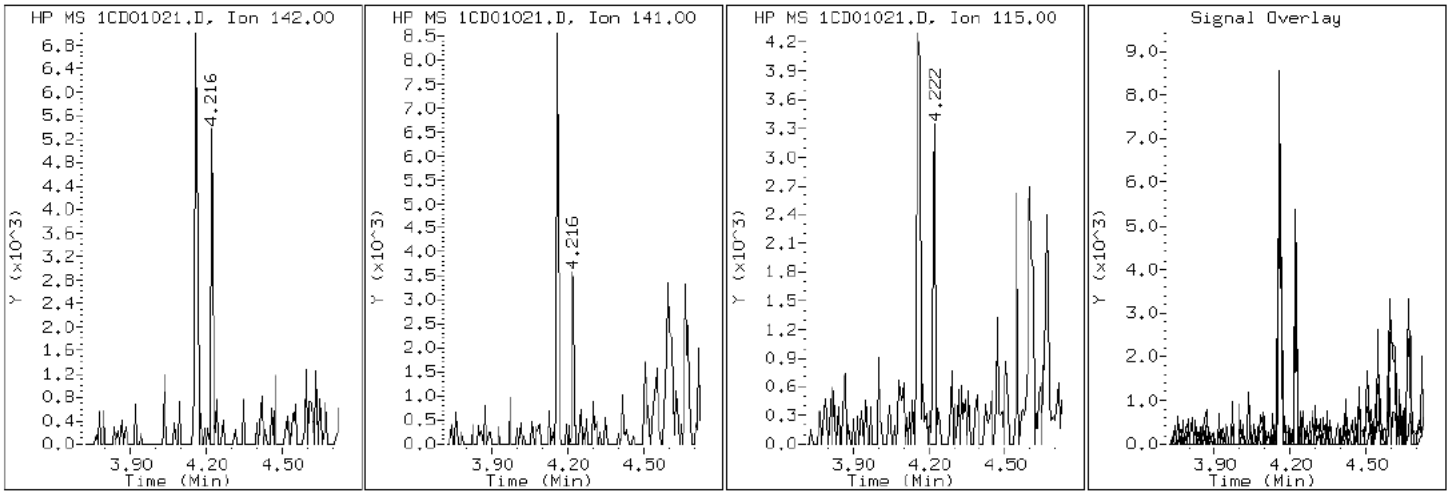
Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC

4 1-Methylnaphthalene



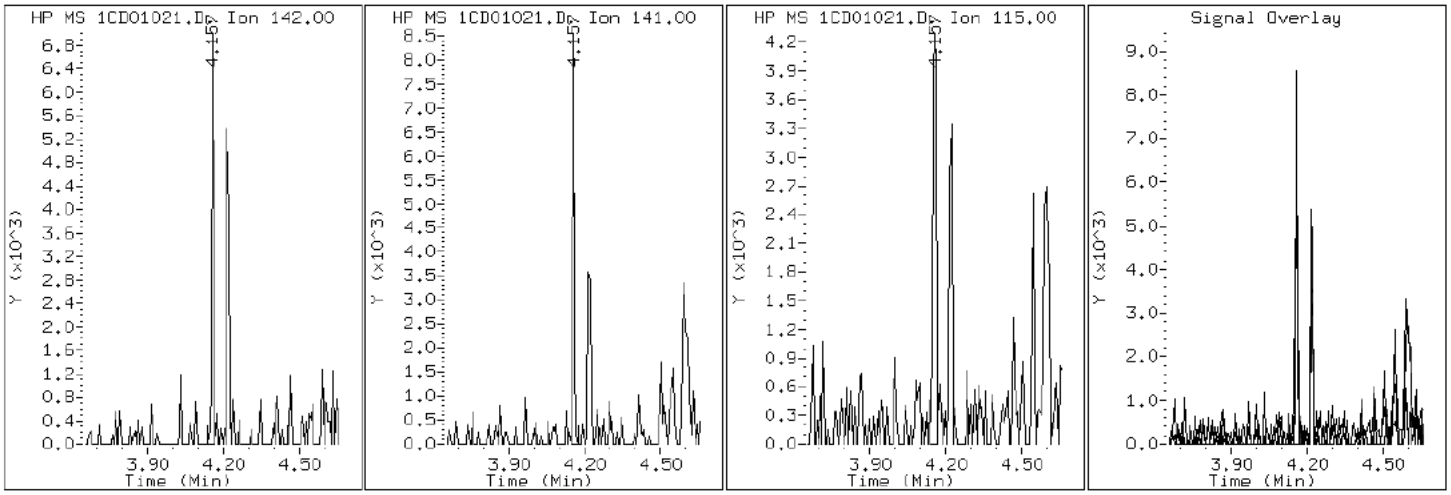
Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC

3 2-Methylnaphthalene



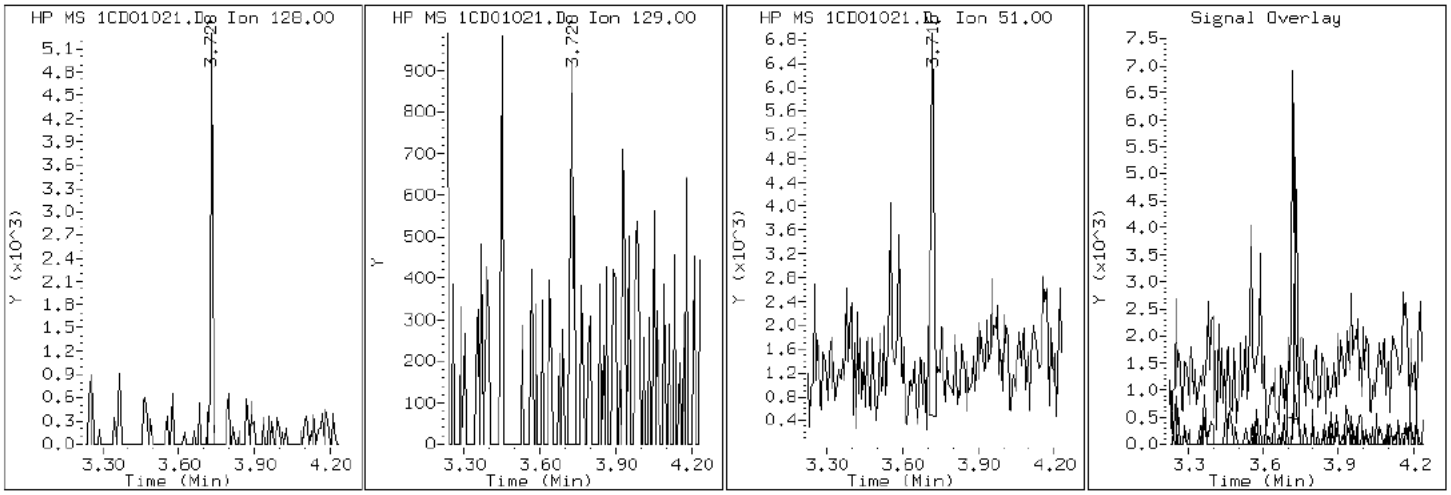
Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC

2 Naphthalene



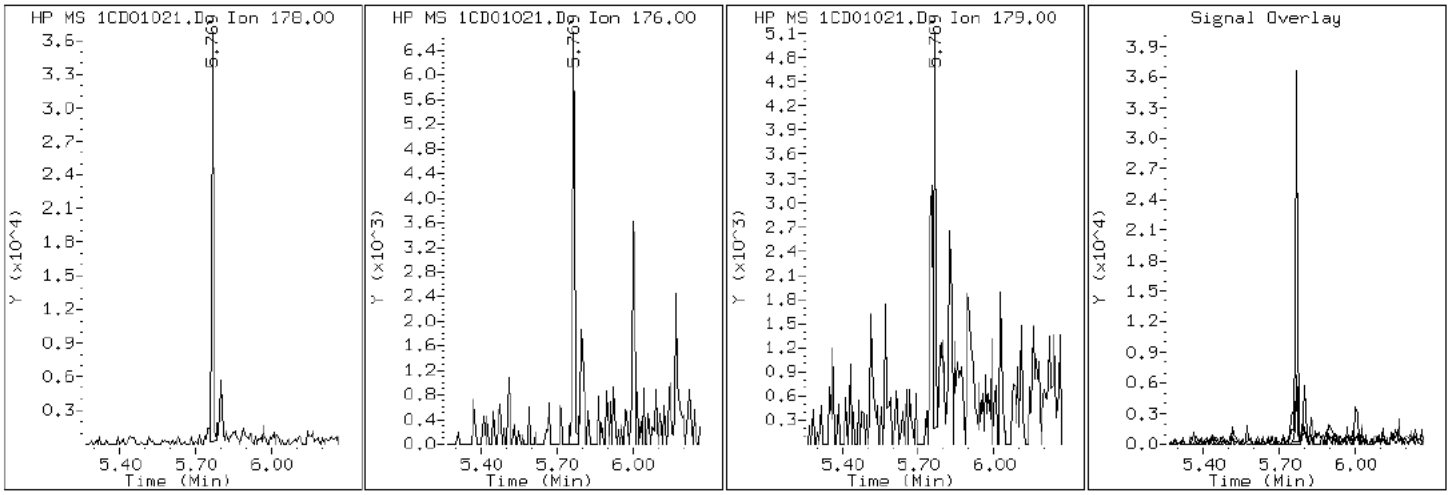
Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC

11 Phenanthrene



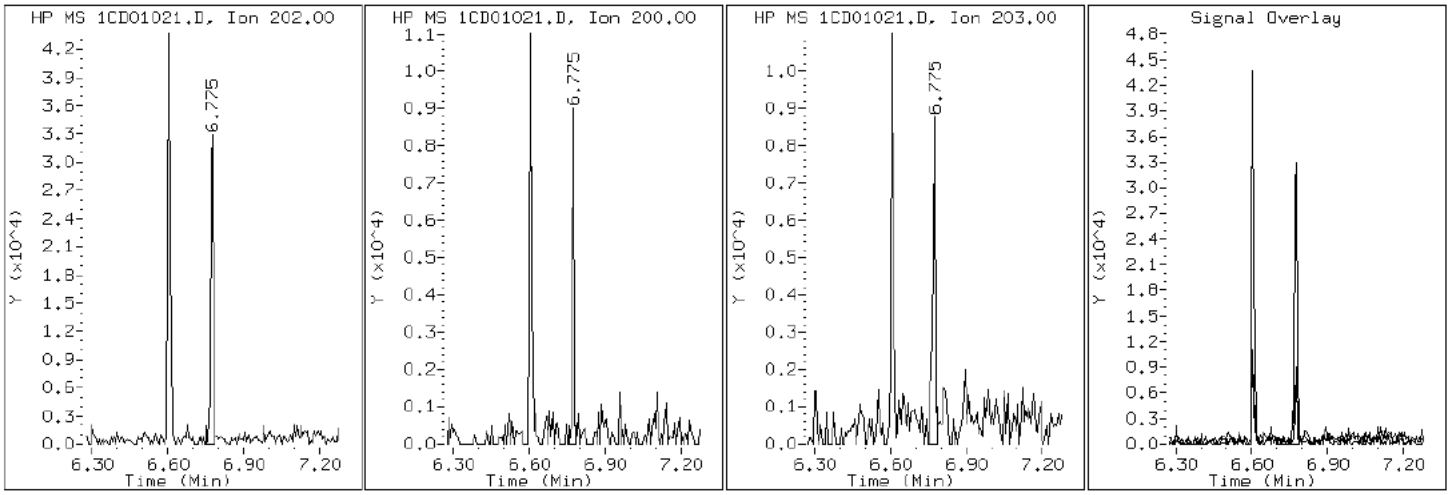
Data File: 1CD01021.D

Date: 01-APR-2013 17:18

Client ID: FM0017B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-28-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD01021.D
Inj. Date and Time: 01-APR-2013 17:18
Instrument ID: BSMC5973.i
Client ID: FM0017B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

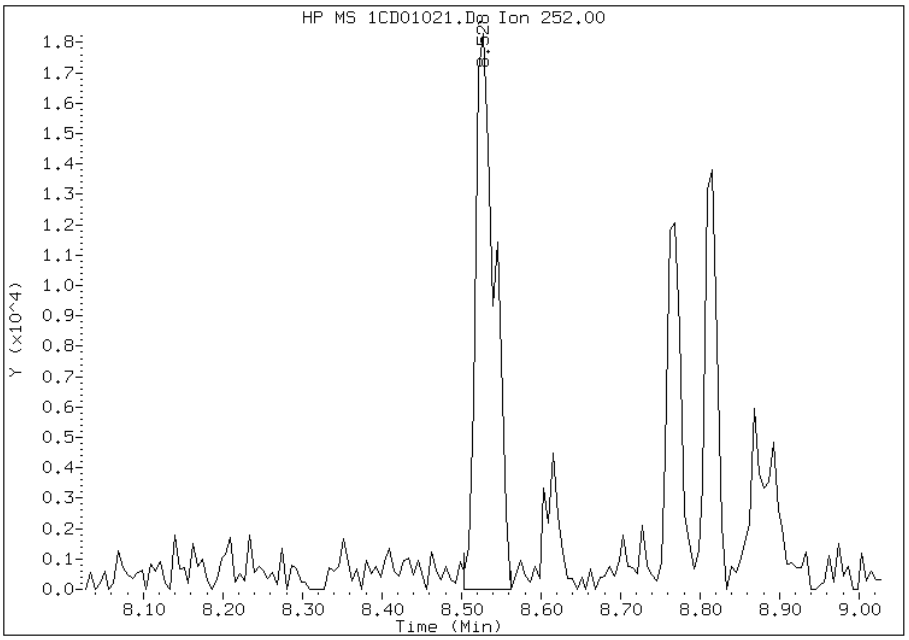
Processing Integration Results

RT: 8.53

Response: 30935

Amount: 1

Conc: 414



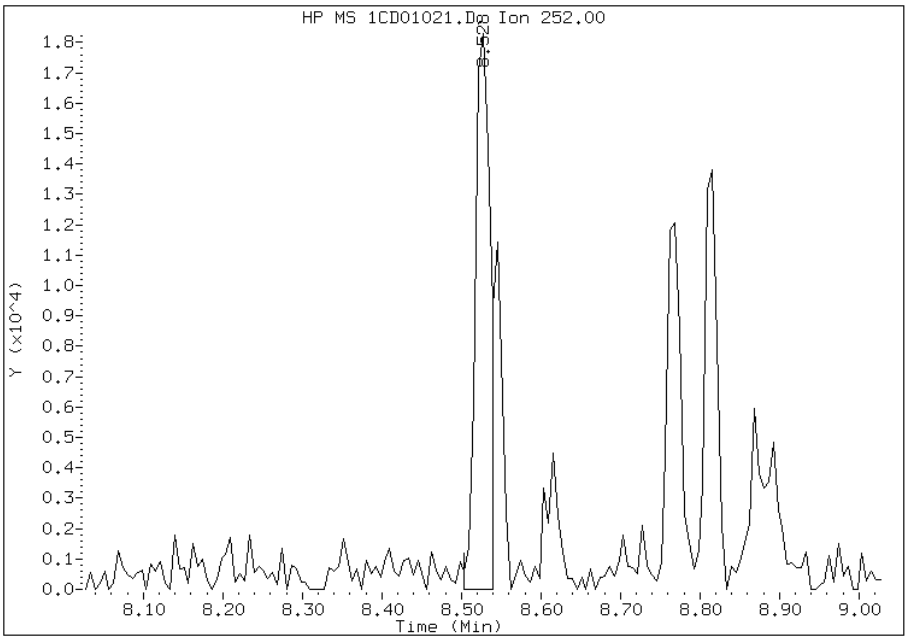
Manual Integration Results

RT: 8.53

Response: 23767

Amount: 1

Conc: 318



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:24
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD01021.D
Inj. Date and Time: 01-APR-2013 17:18
Instrument ID: BSMC5973.i
Client ID: FM0017B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/03/2013

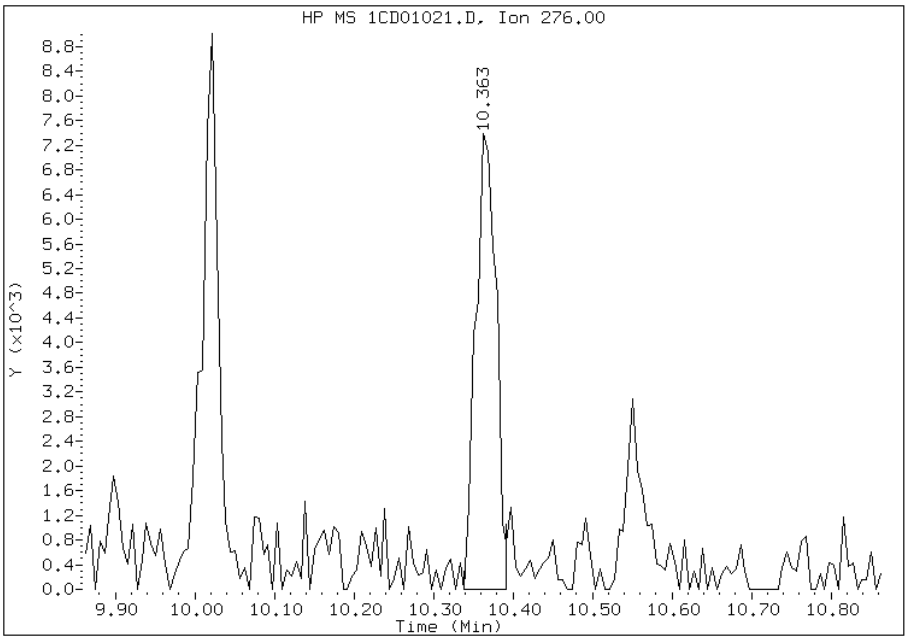
Processing Integration Results

RT: 10.36

Response: 13006

Amount: 1

Conc: 182



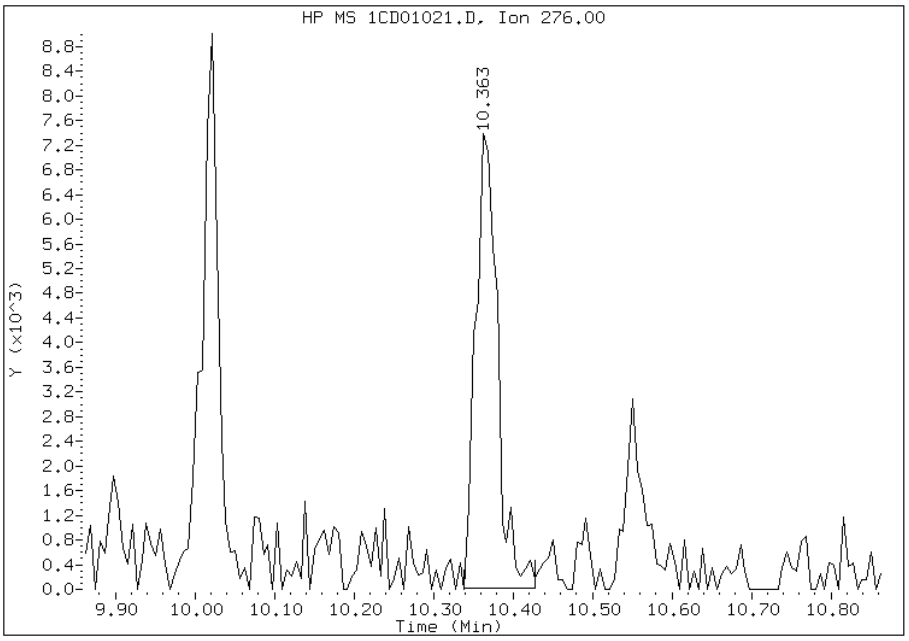
Manual Integration Results

RT: 10.36

Response: 13964

Amount: 1

Conc: 195



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01021.D
Inj. Date and Time: 01-APR-2013 17:18
Instrument ID: BSMC5973.i
Client ID: FM0017B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

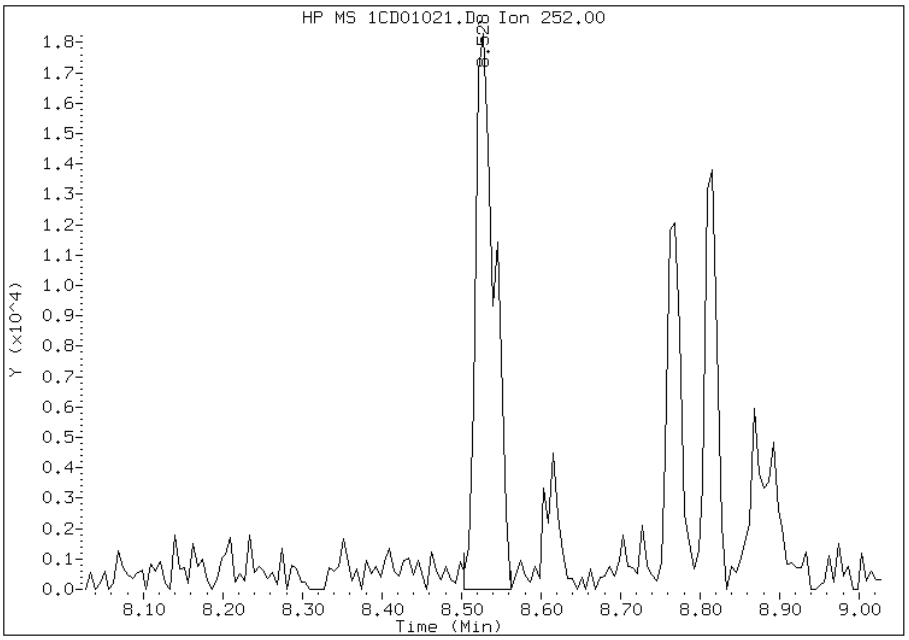
Processing Integration Results

RT: 8.53

Response: 30935

Amount: 1

Conc: 403



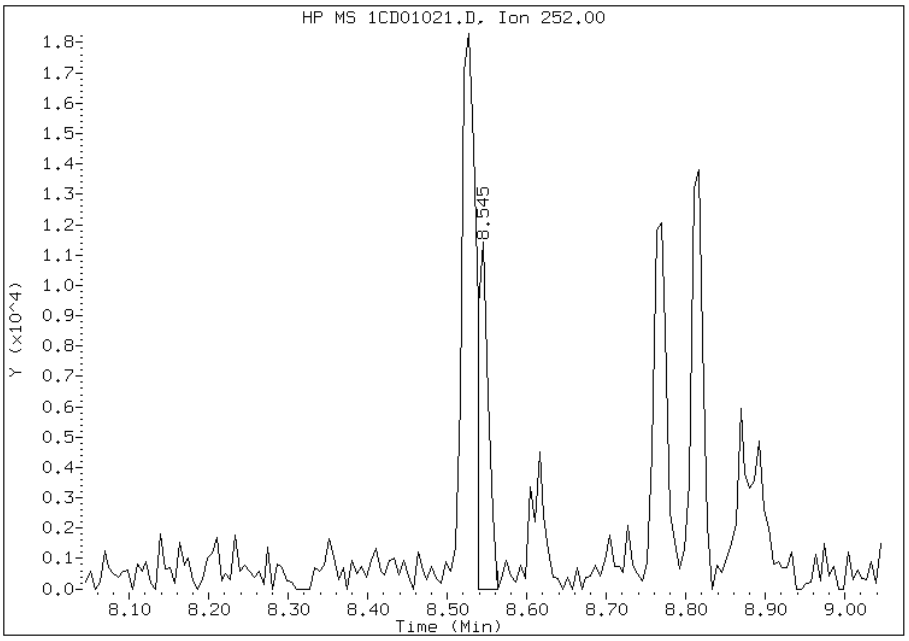
Manual Integration Results

RT: 8.55

Response: 10482

Amount: 0

Conc: 137



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01021.D
Inj. Date and Time: 01-APR-2013 17:18
Instrument ID: BSMC5973.i
Client ID: FM0017B-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/03/2013

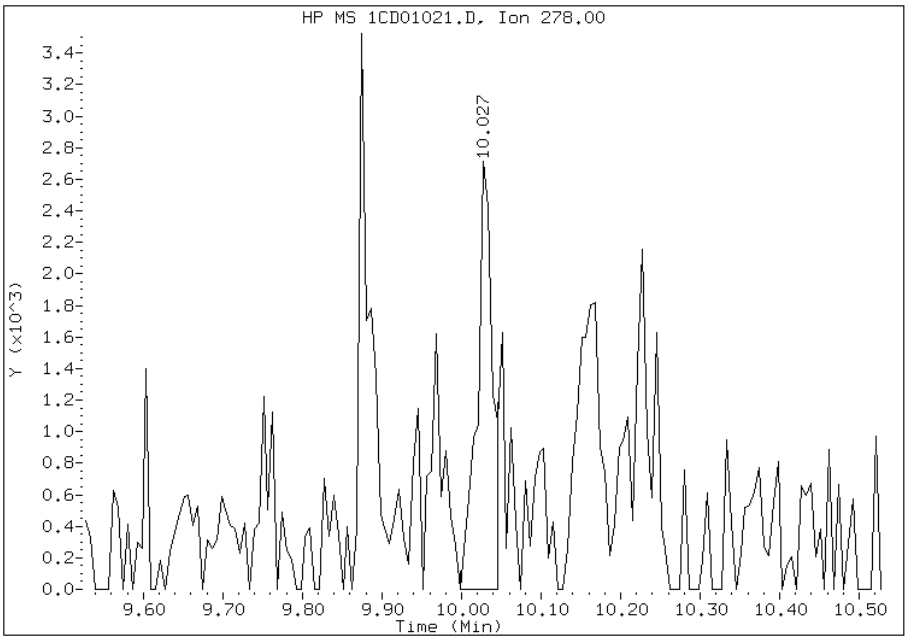
Processing Integration Results

RT: 10.03

Response: 3630

Amount: 0

Conc: 54



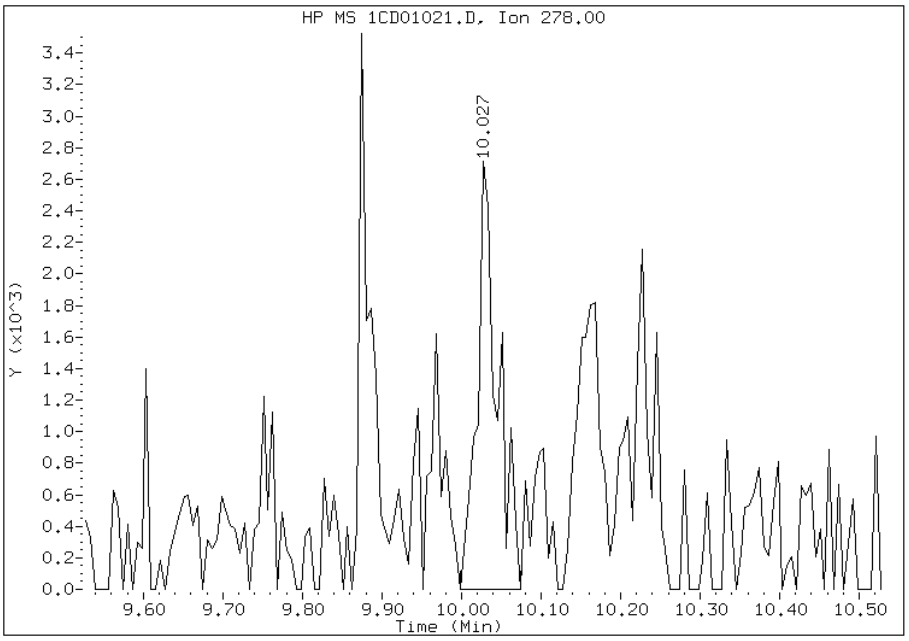
Manual Integration Results

RT: 10.03

Response: 4793

Amount: 0

Conc: 72



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01021.D
Inj. Date and Time: 01-APR-2013 17:18
Instrument ID: BSMC5973.i
Client ID: FM0017B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

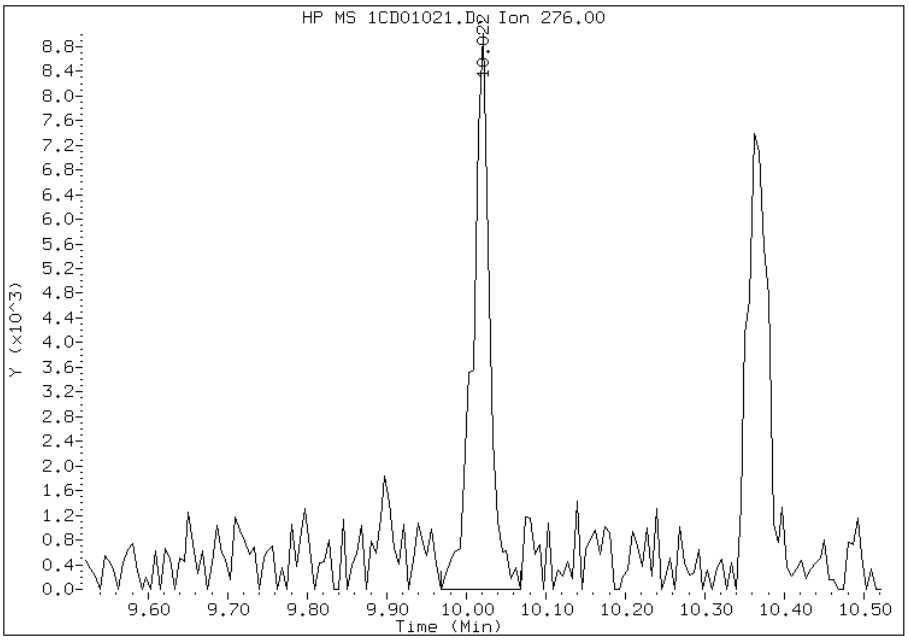
Processing Integration Results

RT: 10.02

Response: 13475

Amount: 1

Conc: 197



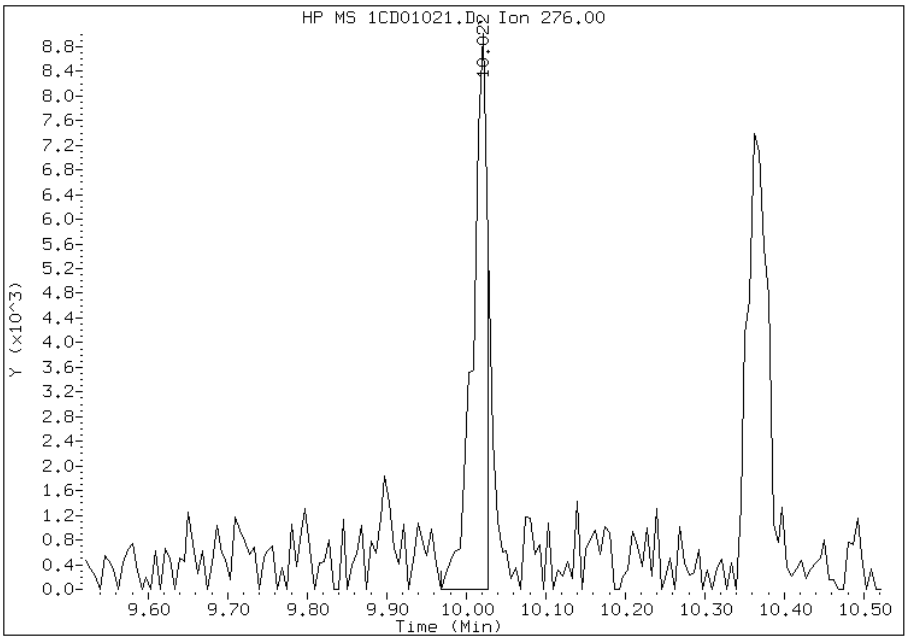
Manual Integration Results

RT: 10.02

Response: 11606

Amount: 0

Conc: 170



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: FM0017C-CS-SP | Lab Sample ID: 680-88632-29

Matrix: Solid | Lab File ID: 1CD01022.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 14:00

Extract. Method: 3546 | Date Extracted: 03/27/2013 15:04

Sample wt/vol: 15.01(g) | Date Analyzed: 04/01/2013 17:37

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

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

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

Analysis Batch No.: 135996 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	74	J	210	26
120-12-7	Anthracene	43	J	44	22
56-55-3	Benzo[a]anthracene	250		42	20
50-32-8	Benzo[a]pyrene	220		54	27
205-99-2	Benzo[b]fluoranthene	360		63	32
191-24-2	Benzo[g,h,i]perylene	220		100	23
207-08-9	Benzo[k]fluoranthene	200		42	19
218-01-9	Chrysene	240		47	23
53-70-3	Dibenz(a,h)anthracene	72	J	100	21
206-44-0	Fluoranthene	300		100	21
86-73-7	Fluorene	25	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	200		100	37
90-12-0	1-Methylnaphthalene	150	J	210	23
91-57-6	2-Methylnaphthalene	230		210	37
91-20-3	Naphthalene	100	J	210	23
85-01-8	Phenanthrene	220		42	20
129-00-0	Pyrene	230		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01022.D
Lab Smp Id: 680-88632-A-29-A Client Smp ID: FM0017C-CS-SP
Inj Date : 01-APR-2013 17:37
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-29-a
Misc Info : 680-88632-A-29-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 22
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	23.032	% 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	3.716	3.716	(1.000)	693650	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	541318	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	978877	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	23830	1.61238	558.2571
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1399479	40.0000	
* 23 Perylene-d12	264	8.874	8.886	(1.000)	1026137	40.0000	
2 Naphthalene	128	3.733	3.733	(1.005)	5424	0.30036	103.9940
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	7847	0.65144	225.5474
4 1-Methylnaphthalene	142	4.221	4.222	(1.136)	4705	0.42887	148.4874
5 Acenaphthylene	152	4.721	4.716	(0.983)	4662	0.21362	73.9604
9 Fluorene	166	5.145	5.145	(1.071)	1260	0.07345	25.4294(Q)
11 Phenanthrene	178	5.768	5.768	(1.003)	17833	0.63003	218.1376
12 Anthracene	178	5.804	5.804	(1.009)	3461	0.12503	43.2884
13 Carbazole	167	5.909	5.910	(1.028)	2720	0.11054	38.2711

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.604	6.604	(1.148)	27143	0.87566	303.1810
16 Pyrene	202	6.774	6.774	(0.881)	25239	0.67109	232.3521
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	29488	0.73005	252.7666
19 Chrysene	228	7.715	7.715	(1.003)	28420	0.70308	243.4290
20 Benzo(b)fluoranthene	252	8.533	8.539	(0.962)	27701	1.03297	357.6474
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.963)	16249	0.59066	204.5053
22 Benzo(a)pyrene	252	8.815	8.827	(0.993)	16732	0.64236	222.4036
24 Indeno(1,2,3-cd)pyrene	276	10.027	10.039	(1.130)	14482	0.59101	204.6273(MH)
25 Dibenzo(a,h)anthracene	278	10.039	10.056	(1.131)	5012	0.20911	72.4010(M)
26 Benzo(g,h,i)perylene	276	10.368	10.386	(1.168)	16522	0.64456	223.1675

QC Flag Legend

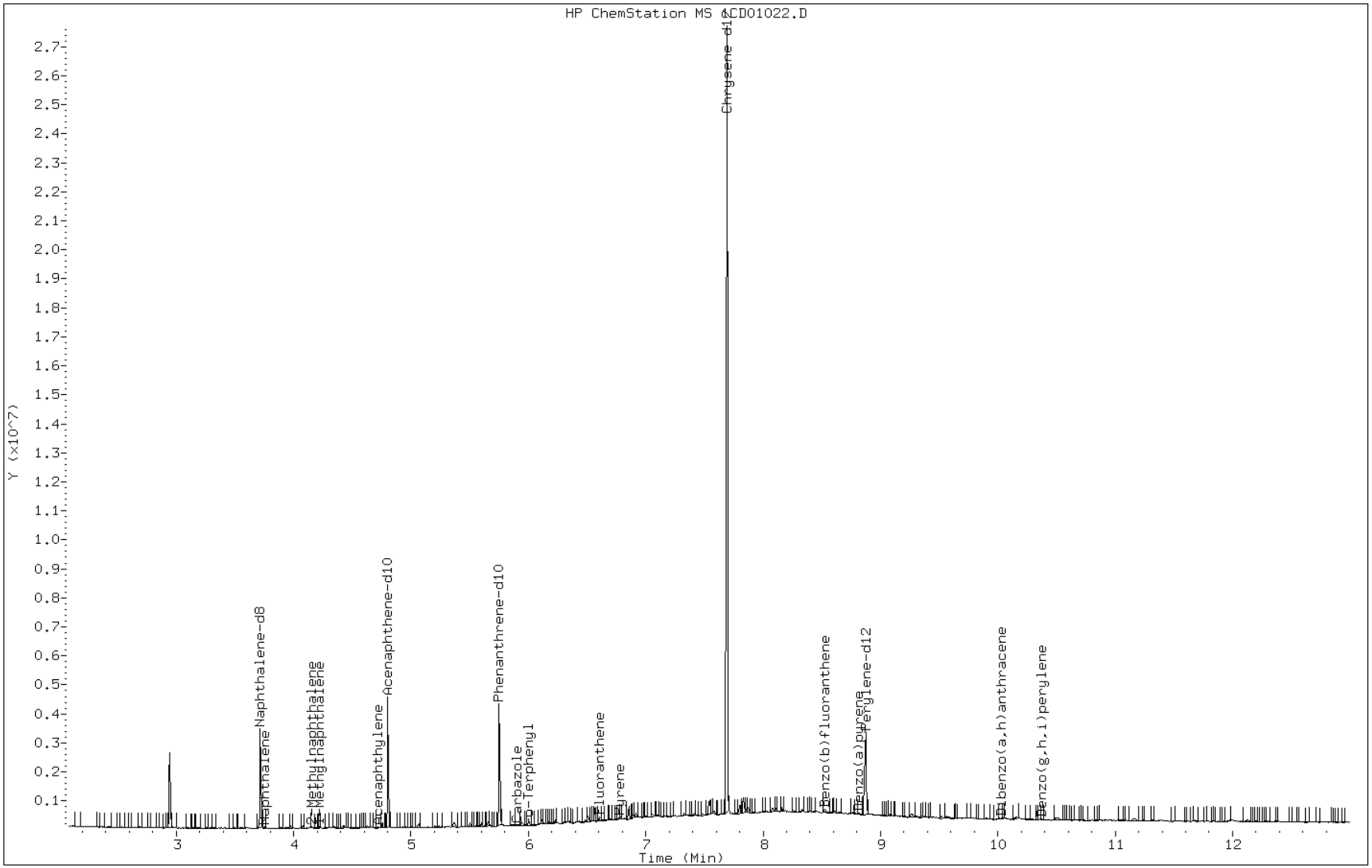
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC



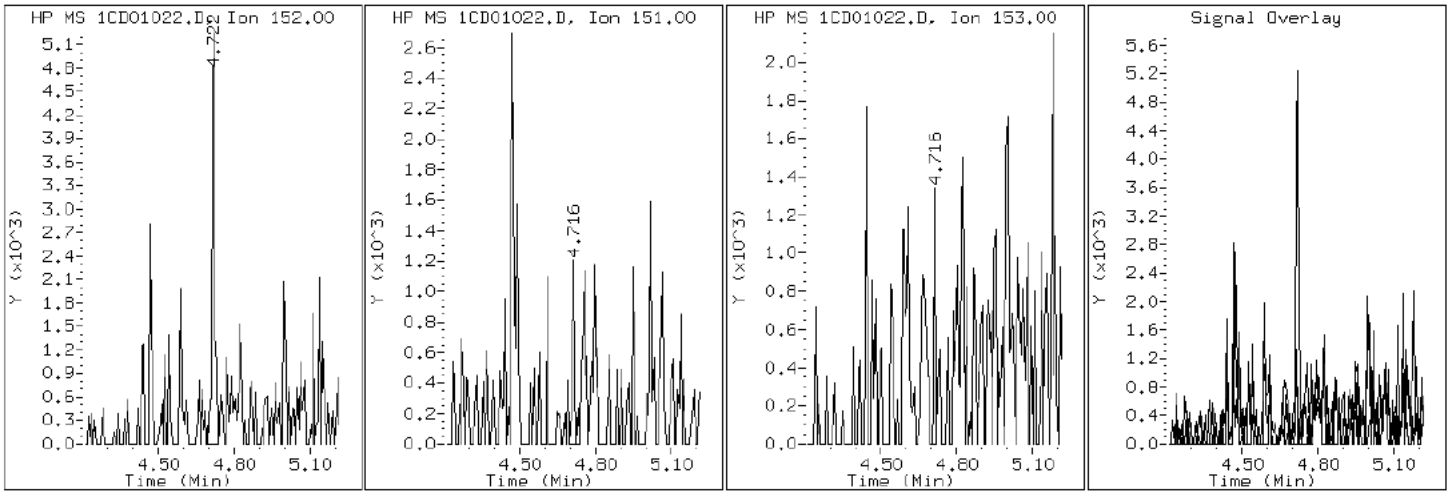
Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC

5 Acenaphthylene



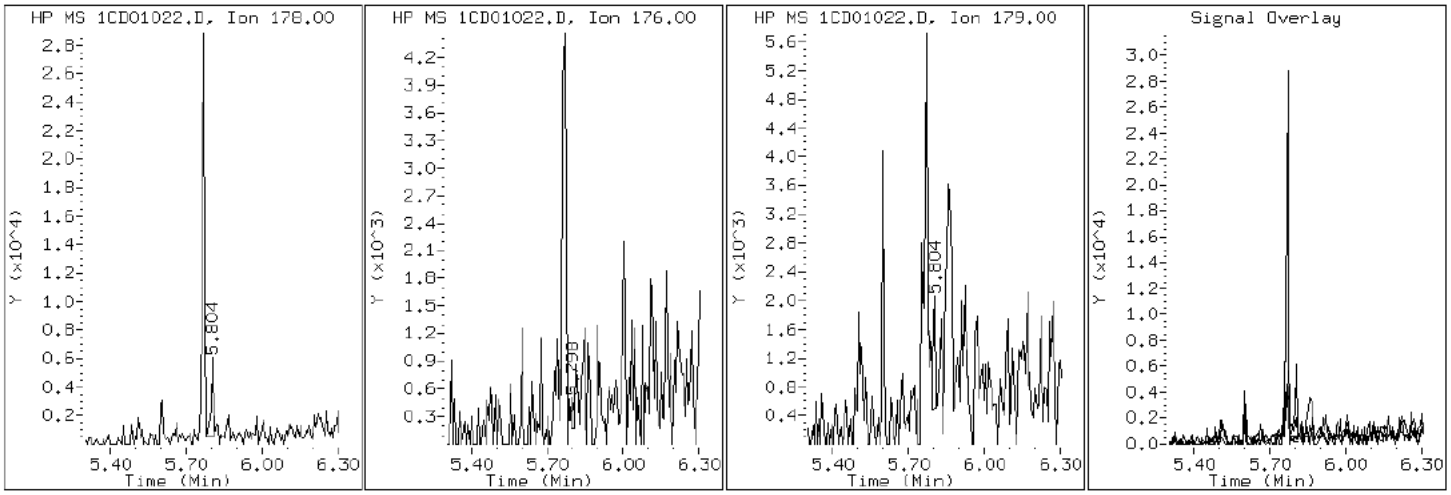
Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC

12 Anthracene



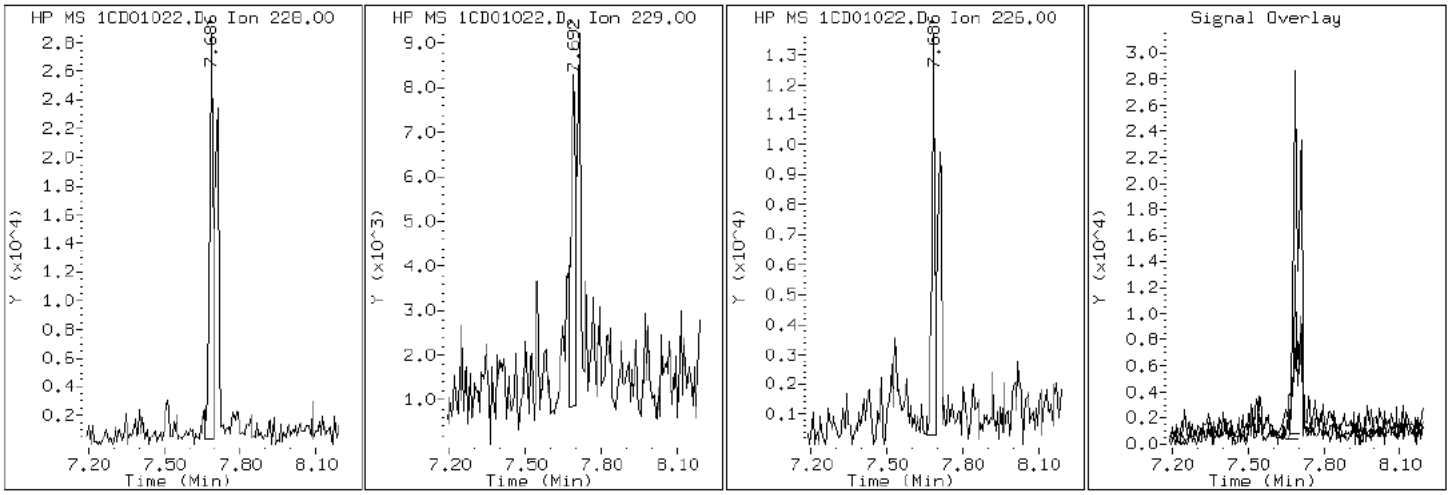
Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC

17 Benzo(a)anthracene



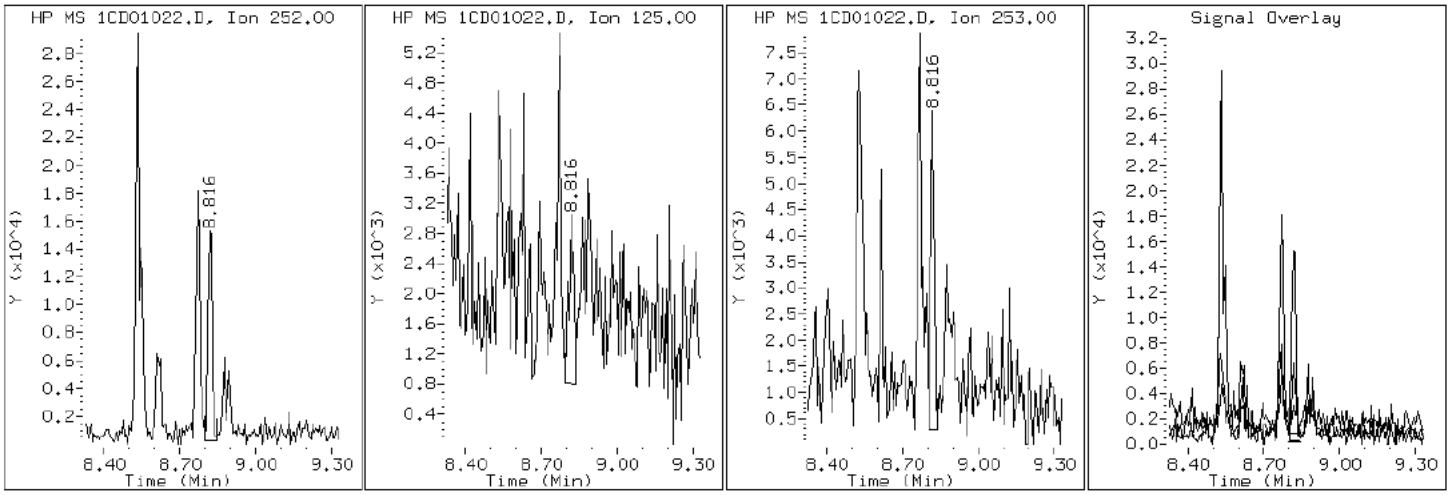
Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC

22 Benzo(a)pyrene



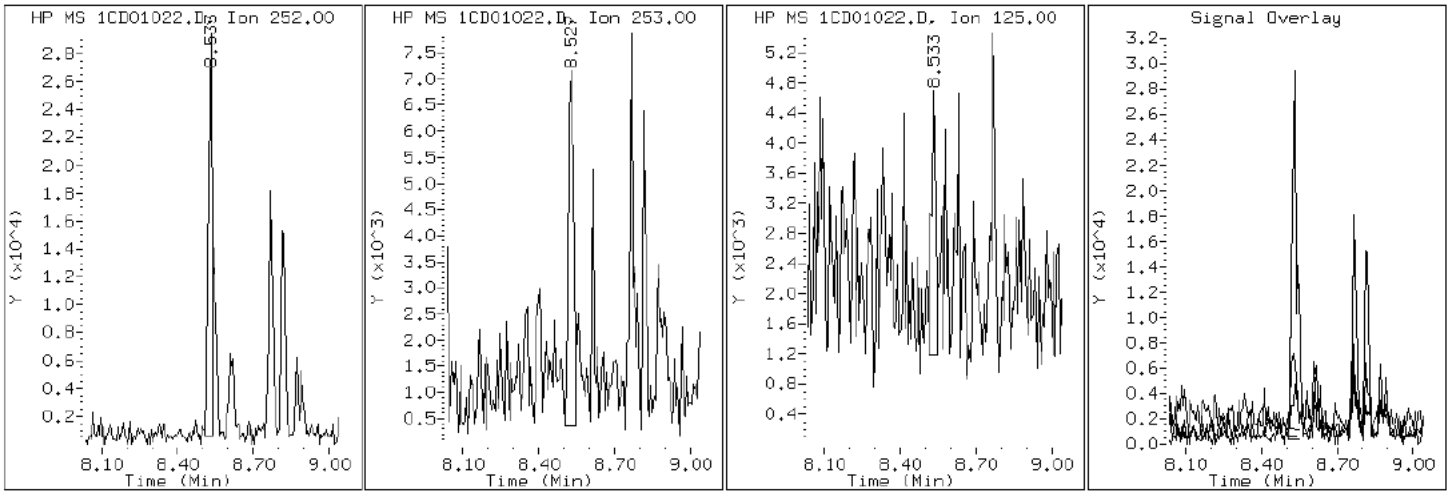
Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC

20 Benzo(b)fluoranthene



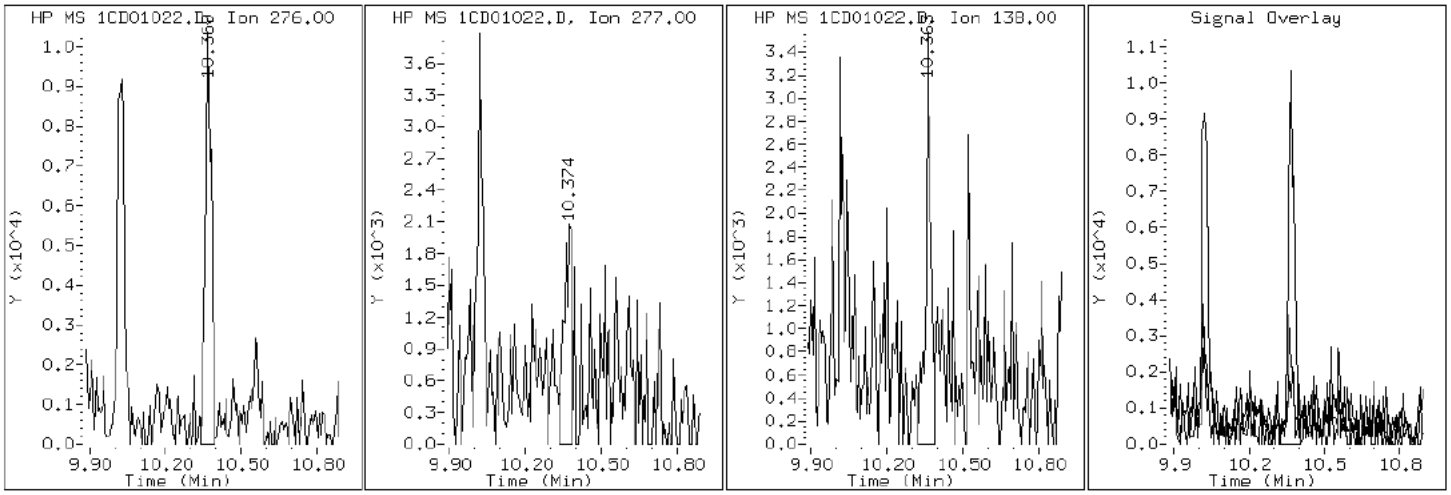
Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC

26 Benzo(g,h,i)perylene



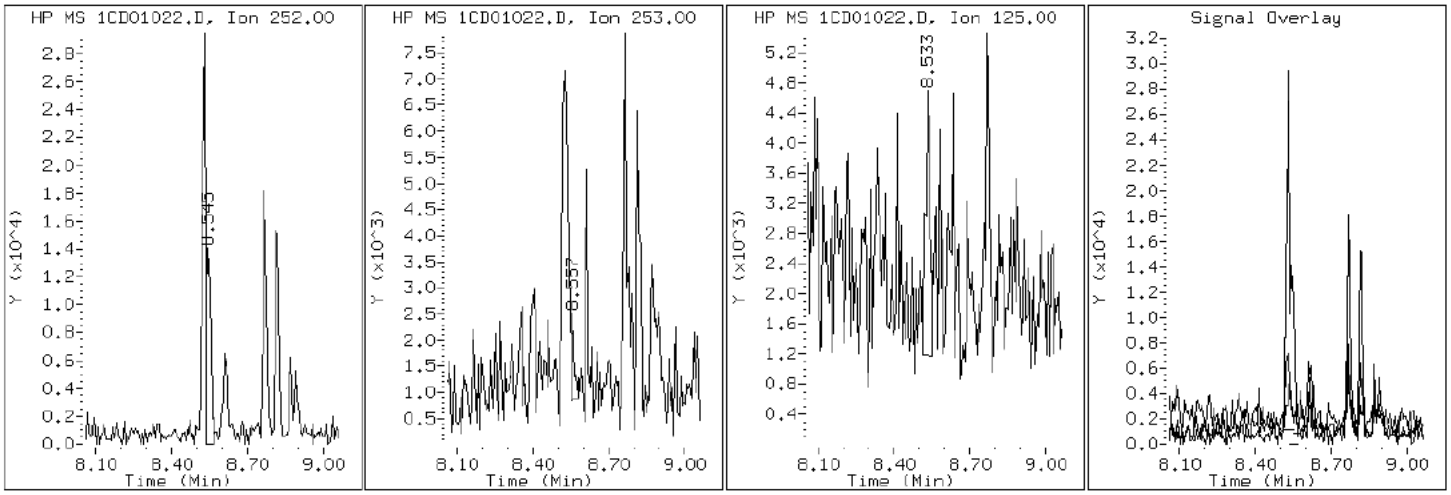
Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC

21 Benzo(k)fluoranthene



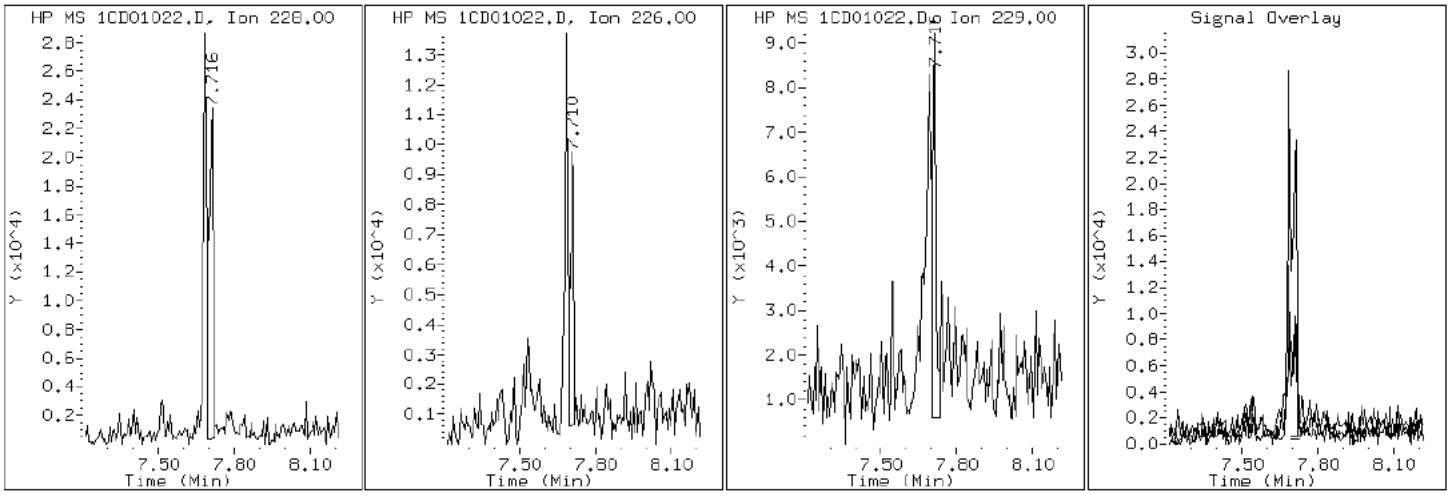
Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC

19 Chrysene



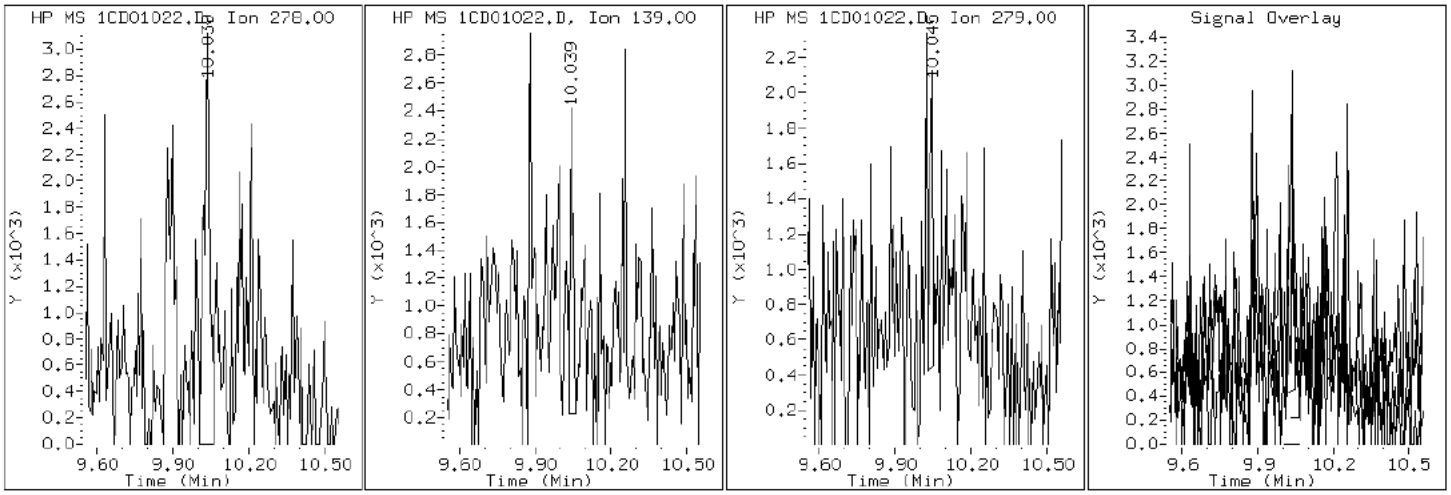
Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC

25 Dibenzo(a,h)anthracene



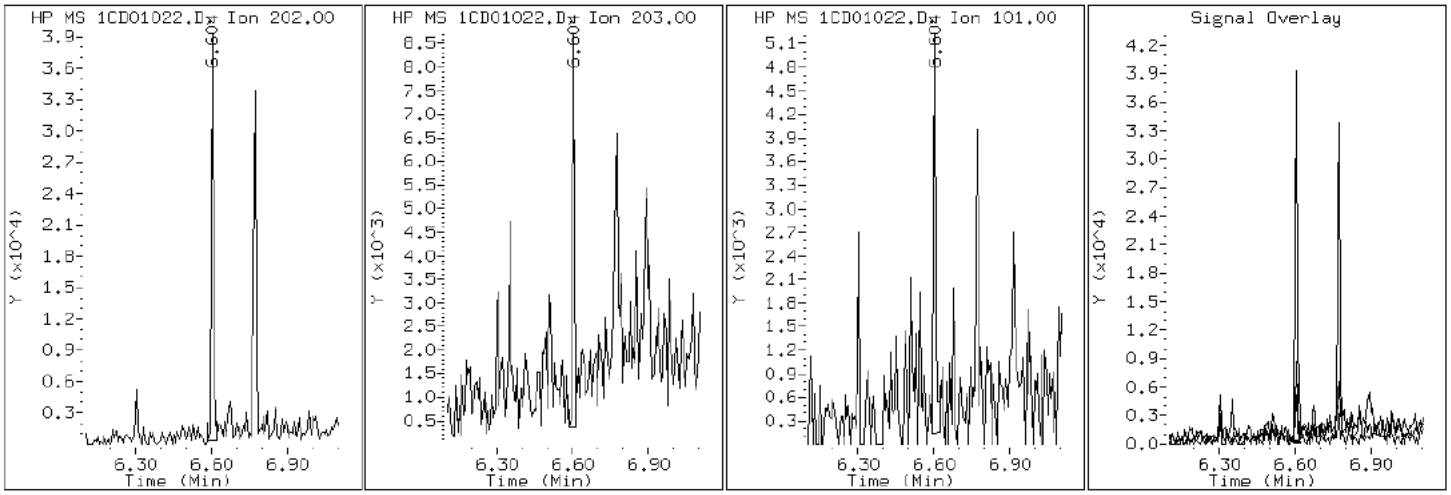
Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC

15 Fluoranthene



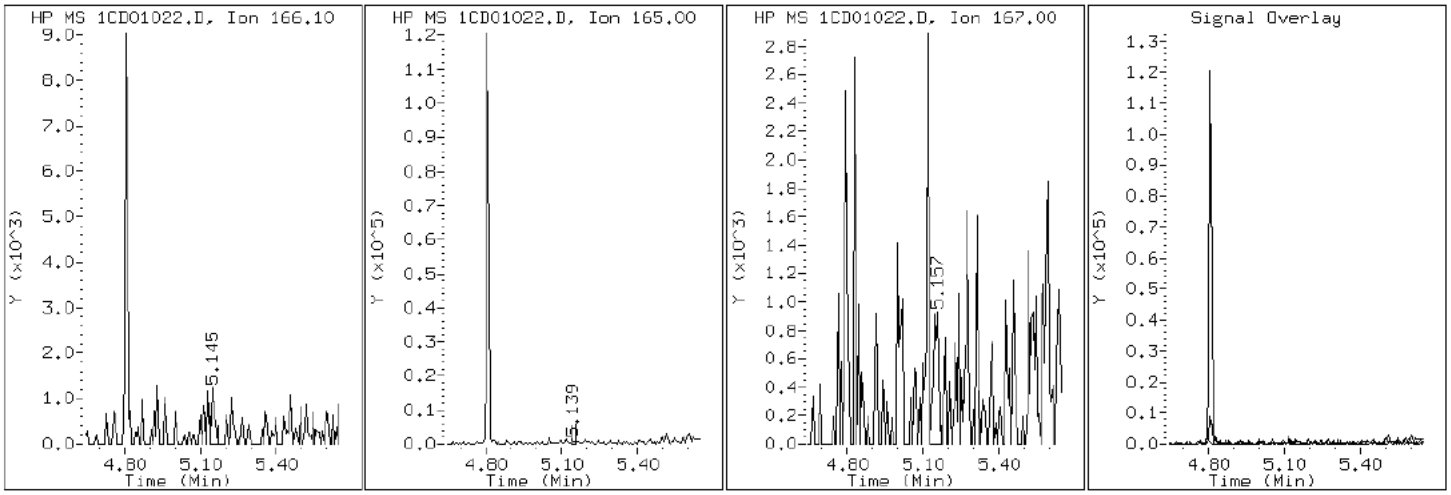
Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC

9 Fluorene



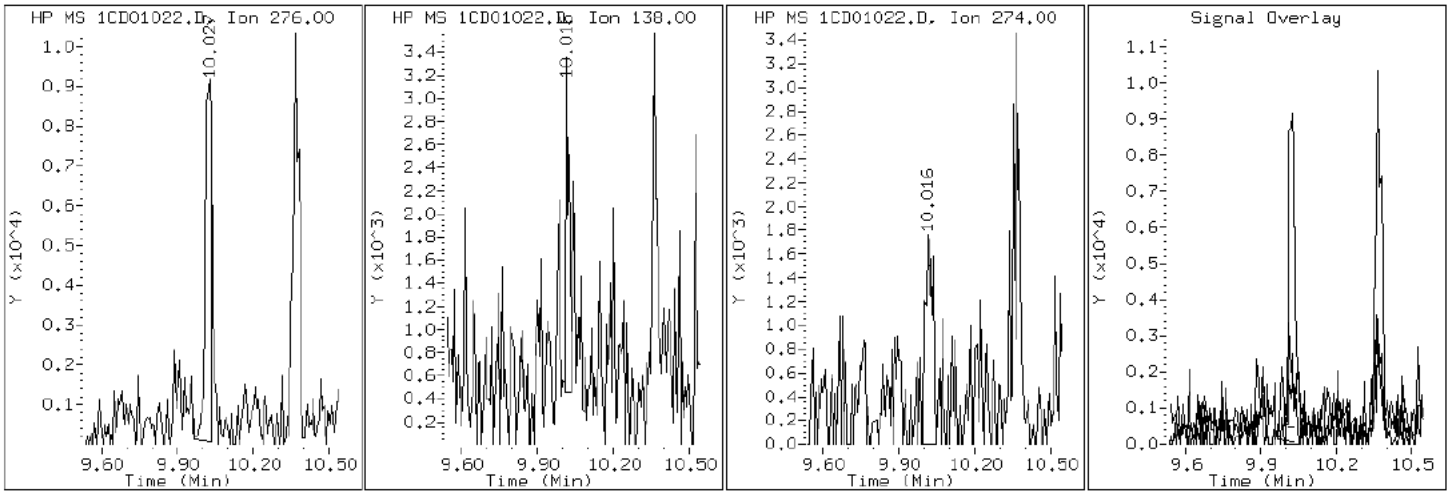
Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC

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



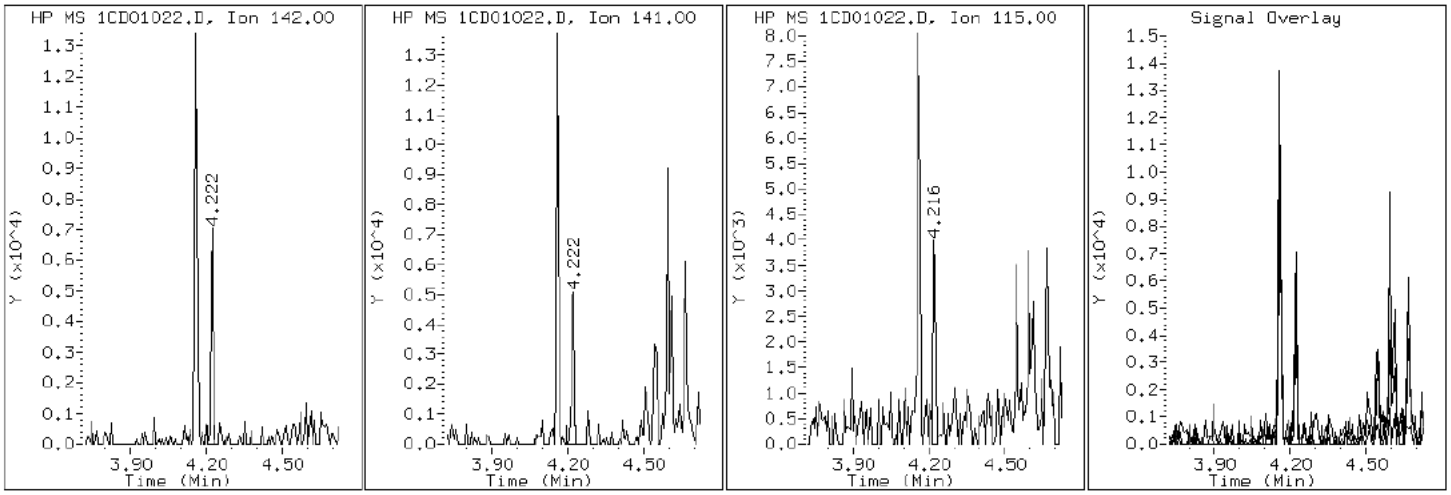
Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC

4 1-Methylnaphthalene



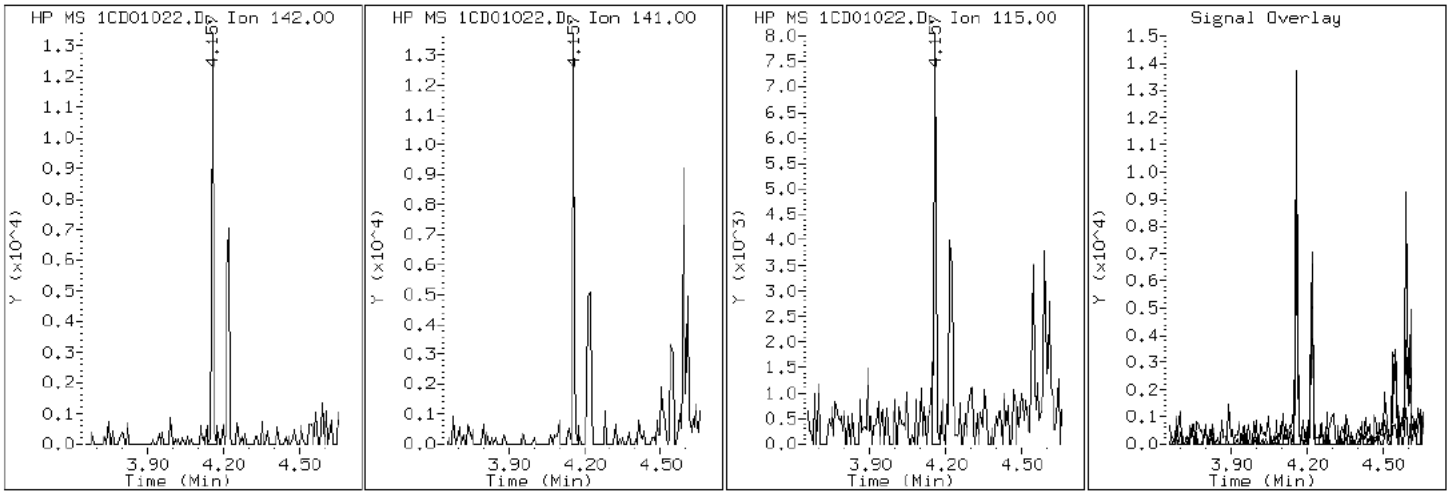
Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC

3 2-Methylnaphthalene



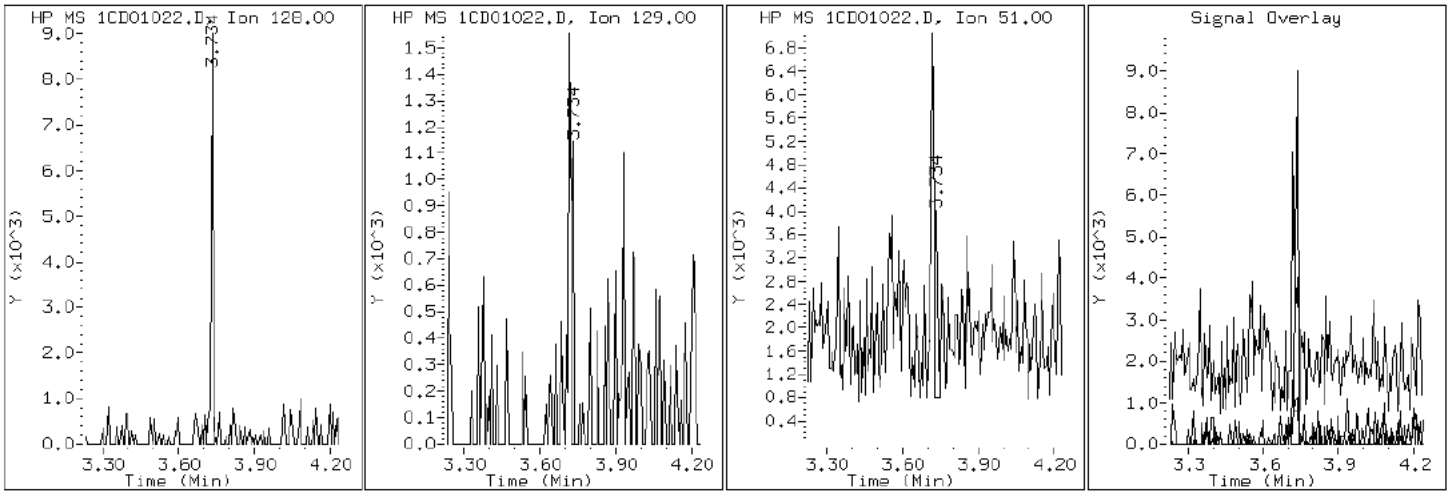
Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC

2 Naphthalene



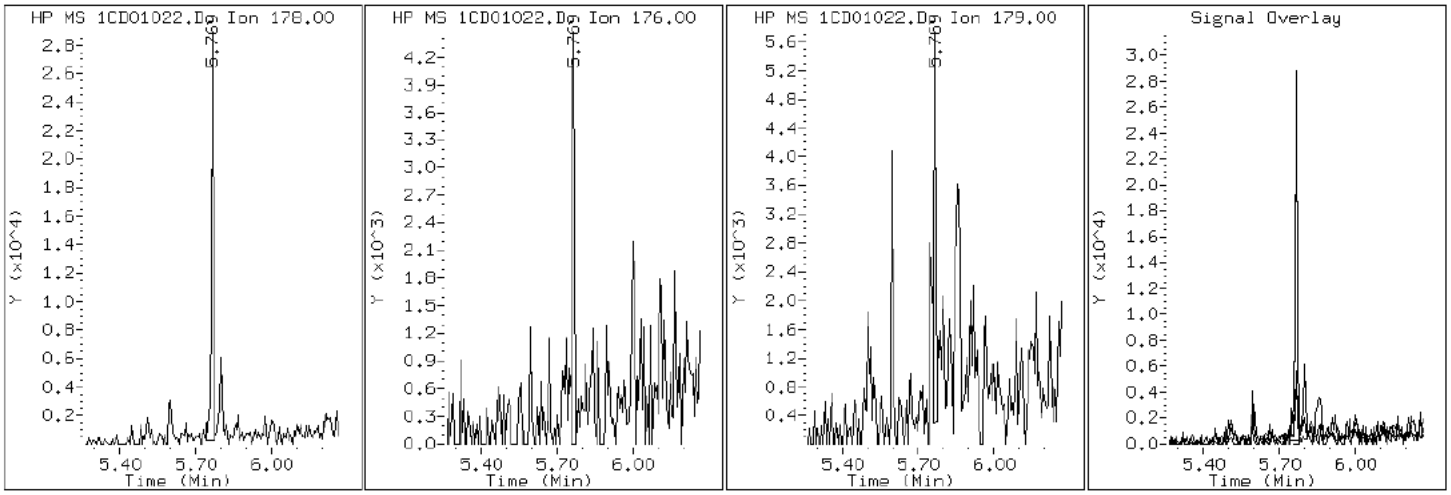
Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC

11 Phenanthrene



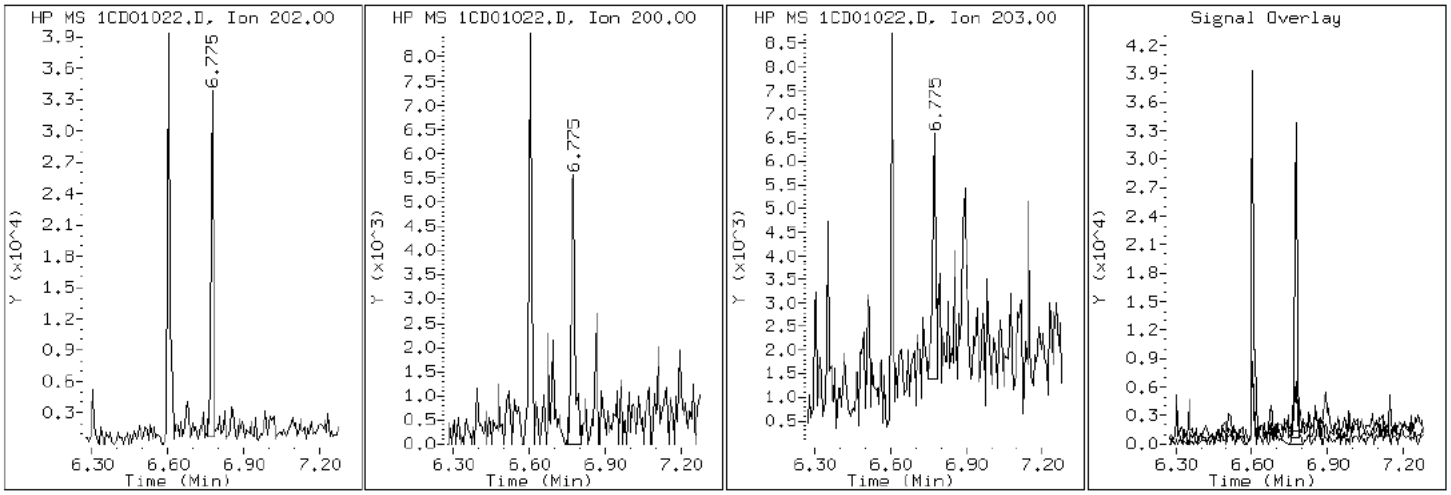
Data File: 1CD01022.D

Date: 01-APR-2013 17:37

Client ID: FM0017C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-29-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD01022.D
Inj. Date and Time: 01-APR-2013 17:37
Instrument ID: BSMC5973.i
Client ID: FM0017C-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/03/2013

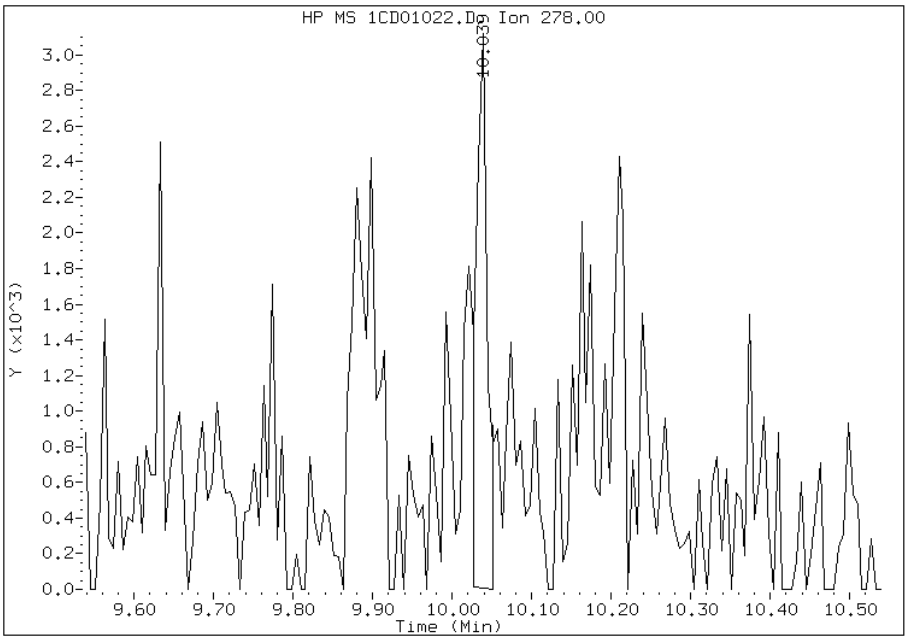
Processing Integration Results

RT: 10.04

Response: 3140

Amount: 0

Conc: 45



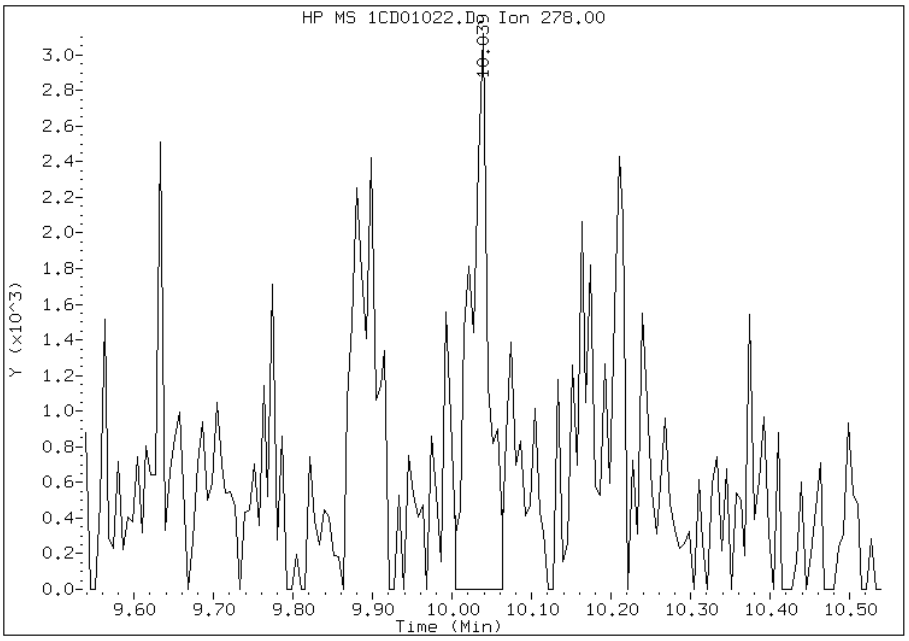
Manual Integration Results

RT: 10.04

Response: 5012

Amount: 0

Conc: 72



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:26
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01022.D
Inj. Date and Time: 01-APR-2013 17:37
Instrument ID: BSMC5973.i
Client ID: FM0017C-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

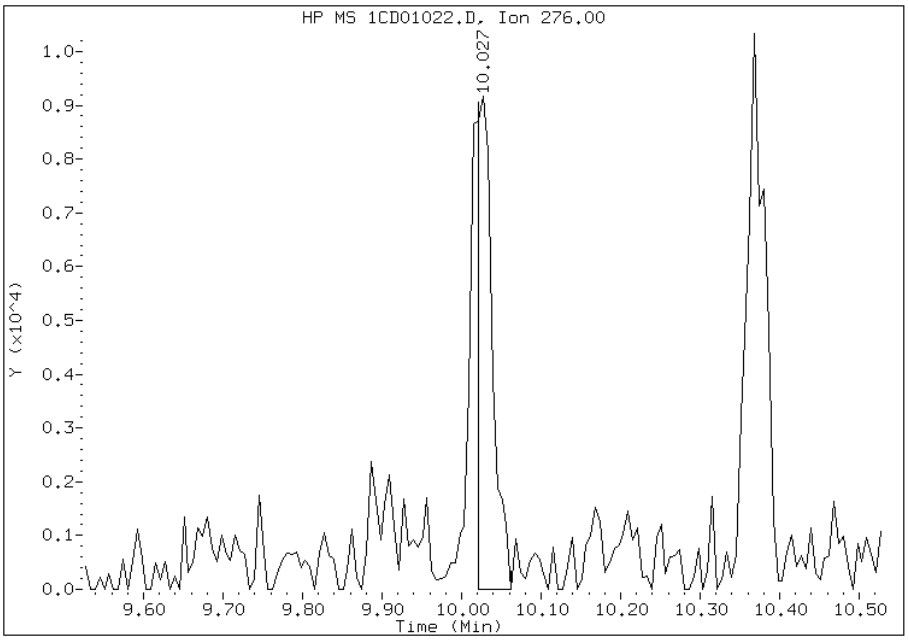
Processing Integration Results

RT: 10.03

Response: 12238

Amount: 0

Conc: 173



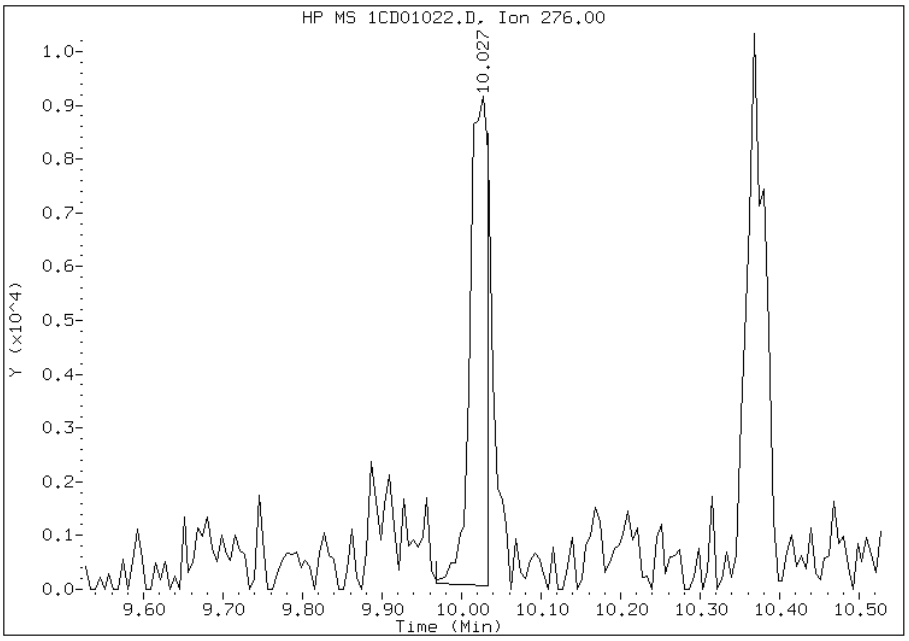
Manual Integration Results

RT: 10.03

Response: 14482

Amount: 1

Conc: 205



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:26
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: FM0017D-CS-SP | Lab Sample ID: 680-88632-30

Matrix: Solid | Lab File ID: 1CD01023.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 14:10

Extract. Method: 3546 | Date Extracted: 03/27/2013 15:04

Sample wt/vol: 15.14(g) | Date Analyzed: 04/01/2013 17:55

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

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

% Moisture: 23.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135996 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	210	U	210	26
120-12-7	Anthracene	44	U	44	22
56-55-3	Benzo[a]anthracene	96		42	20
50-32-8	Benzo[a]pyrene	120		54	27
205-99-2	Benzo[b]fluoranthene	150		64	32
191-24-2	Benzo[g,h,i]perylene	95	J	100	23
207-08-9	Benzo[k]fluoranthene	55		42	19
218-01-9	Chrysene	150		47	23
53-70-3	Dibenz(a,h)anthracene	29	J	100	21
206-44-0	Fluoranthene	170		100	21
86-73-7	Fluorene	39	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	87	J	100	37
90-12-0	1-Methylnaphthalene	300		210	23
91-57-6	2-Methylnaphthalene	460		210	37
91-20-3	Naphthalene	420		210	23
85-01-8	Phenanthrene	290		42	20
129-00-0	Pyrene	160		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	96		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01023.D
Lab Smp Id: 680-88632-A-30-A Client Smp ID: FM0017D-CS-SP
Inj Date : 01-APR-2013 17:55
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-30-a
Misc Info : 680-88632-A-30-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.140	Weight Extracted
M	23.935	% 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	3.716	3.716	(1.000)	633164	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	501063	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	869930	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	31458	2.39507	831.8952
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	985527	40.0000	
* 23 Perylene-d12	264	8.868	8.886	(1.000)	971146	40.0000	
2 Naphthalene	128	3.733	3.733	(1.005)	19910	1.20786	419.5343
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	14607	1.32847	461.4269
4 1-Methylnaphthalene	142	4.221	4.222	(1.136)	8587	0.85749	297.8373
9 Fluorene	166	5.145	5.145	(1.071)	1774	0.11172	38.8027
11 Phenanthrene	178	5.768	5.768	(1.003)	21119	0.83957	291.6129
15 Fluoranthene	202	6.604	6.604	(1.148)	13177	0.47834	166.1452
16 Pyrene	202	6.774	6.774	(0.881)	11819	0.44626	155.0017
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	7884	0.27717	96.2725(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	7.710	7.715	(1.002)	12476	0.43828	152.2317
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.962)	11102	0.43744	151.9376(M)
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.964)	4096	0.15732	54.6439(M)
22 Benzo(a)pyrene	252	8.815	8.827	(0.994)	8374	0.33969	117.9862
24 Indeno(1,2,3-cd)pyrene	276	10.027	10.039	(1.131)	5830	0.25140	87.3188(M)
25 Dibenzo(a,h)anthracene	278	10.033	10.056	(1.131)	1890	0.08332	28.9400(QM)
26 Benzo(g,h,i)perylene	276	10.362	10.386	(1.168)	6621	0.27293	94.7973(M)

QC Flag Legend

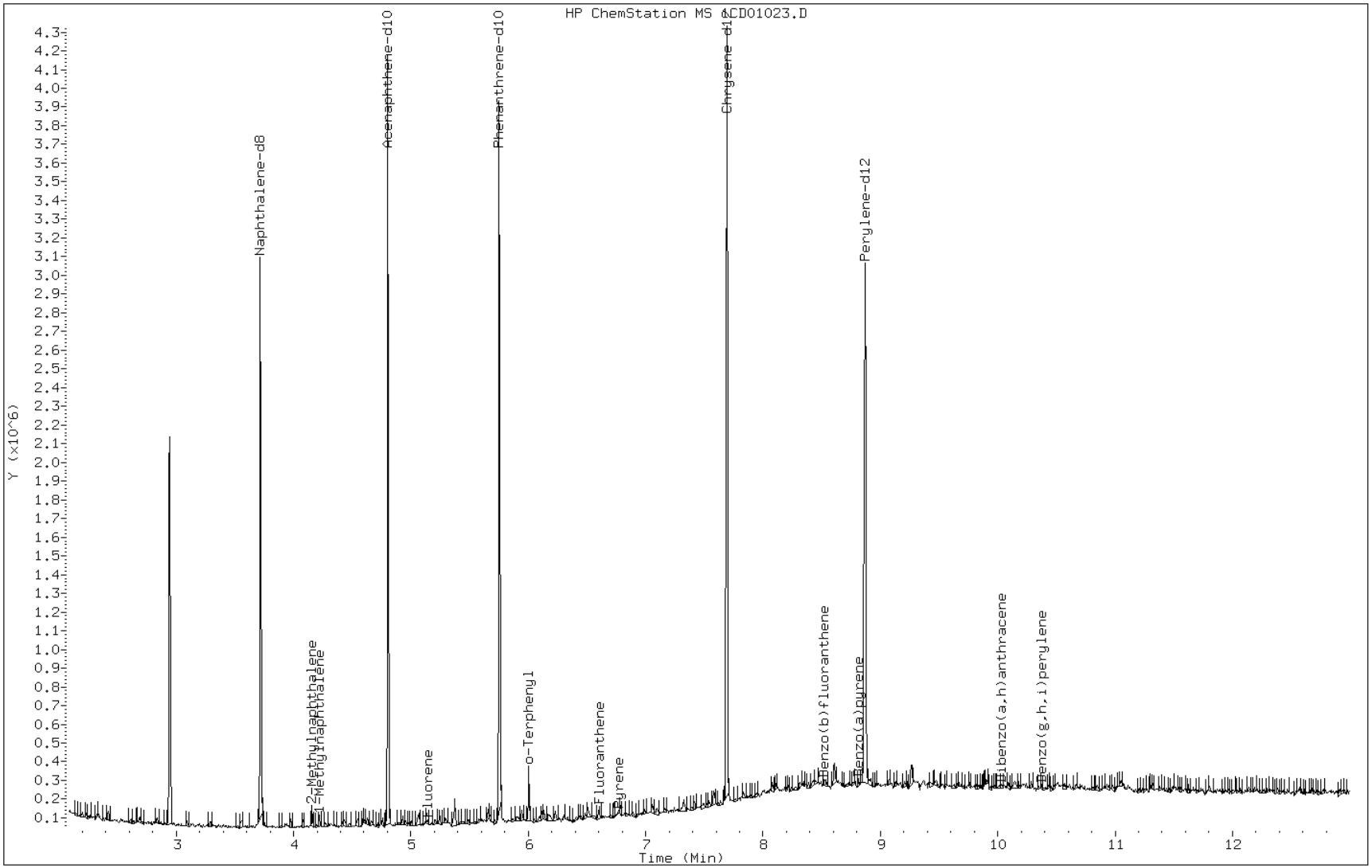
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD01023.D

Date: 01-APR-2013 17:55

Client ID: FM0017D-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-30-a Operator: SCC



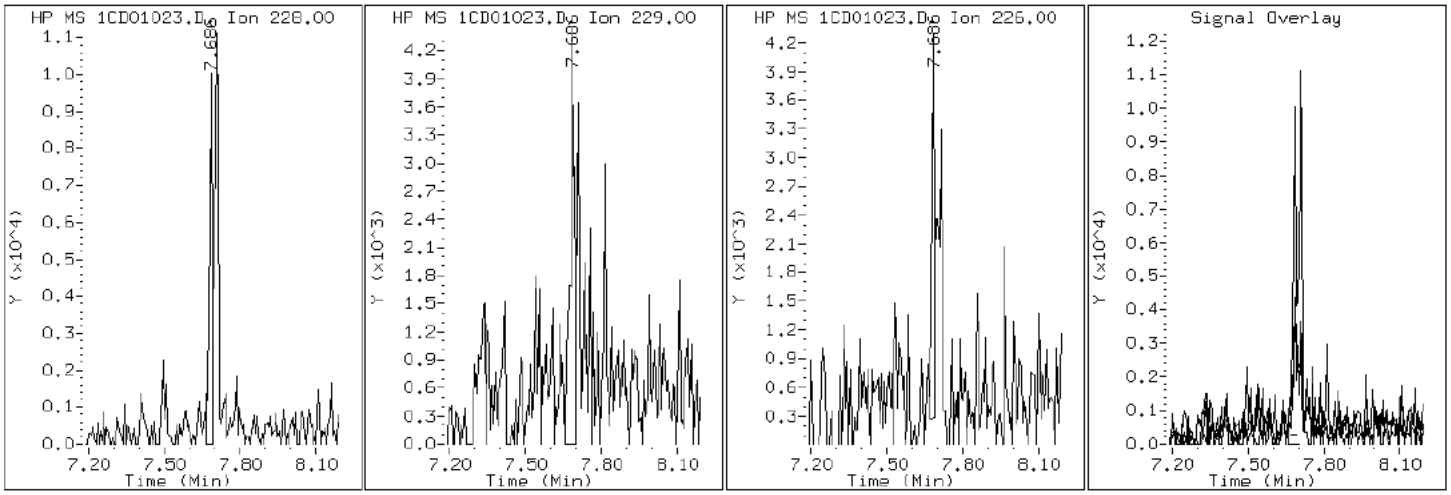
Data File: 1CD01023.D

Date: 01-APR-2013 17:55

Client ID: FM0017D-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-30-a Operator: SCC

17 Benzo(a)anthracene



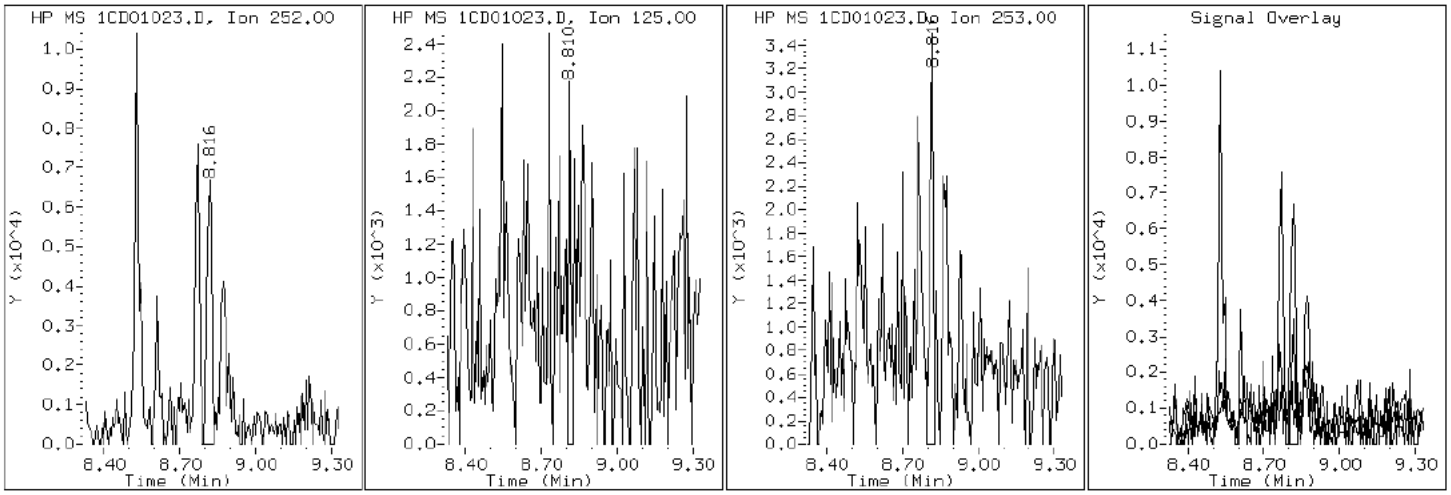
Data File: 1CD01023.D

Date: 01-APR-2013 17:55

Client ID: FM0017D-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-30-a Operator: SCC

22 Benzo(a)pyrene



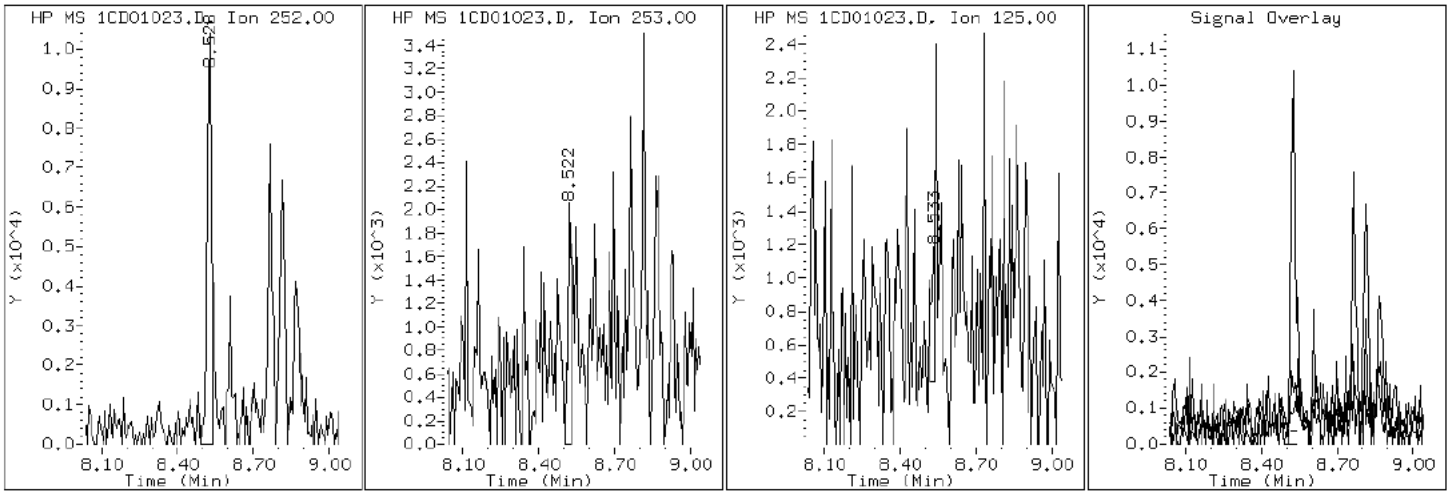
Data File: 1CD01023.D

Date: 01-APR-2013 17:55

Client ID: FM0017D-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-30-a Operator: SCC

20 Benzo(b)fluoranthene



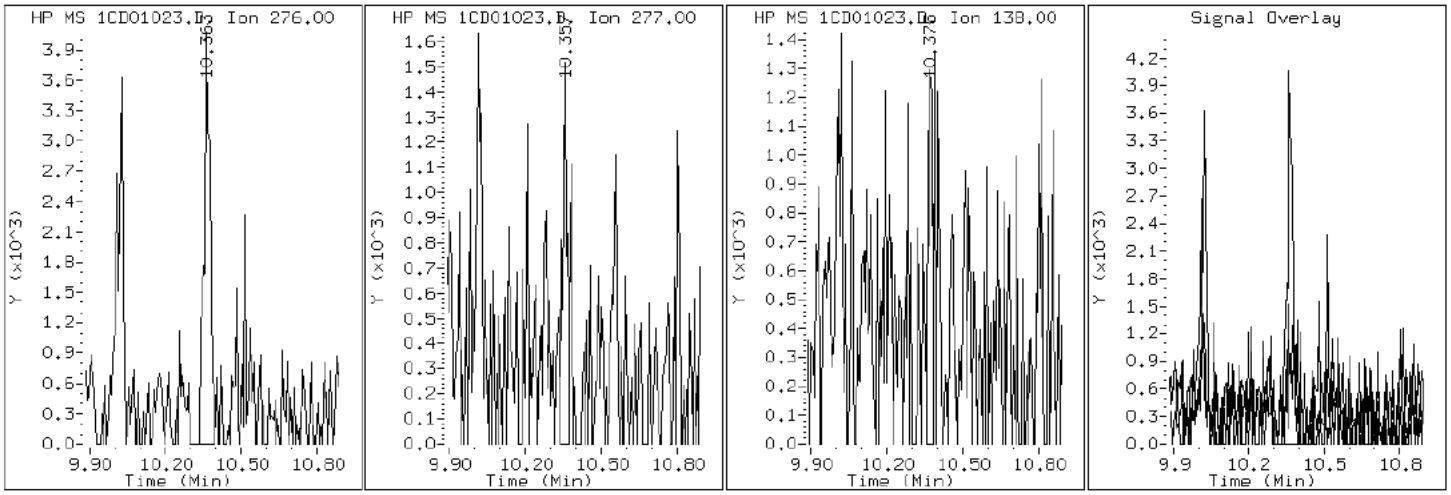
Data File: 1CD01023.D

Date: 01-APR-2013 17:55

Client ID: FM0017D-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-30-a Operator: SCC

26 Benzo(g,h,i)perylene



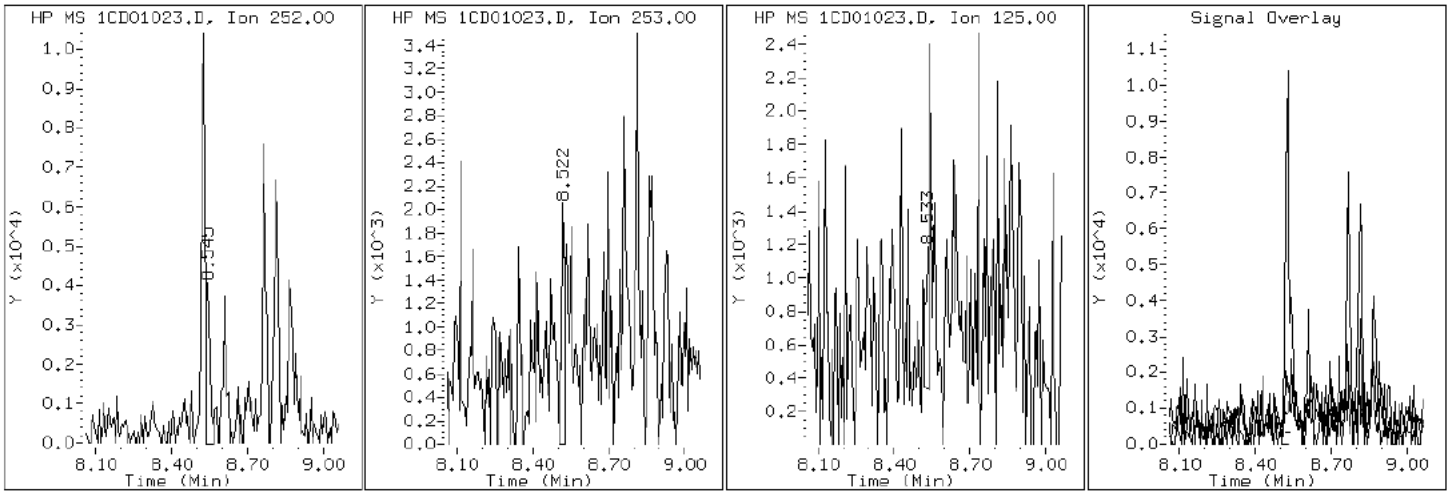
Data File: 1CD01023.D

Date: 01-APR-2013 17:55

Client ID: FM0017D-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-30-a Operator: SCC

21 Benzo(k)fluoranthene



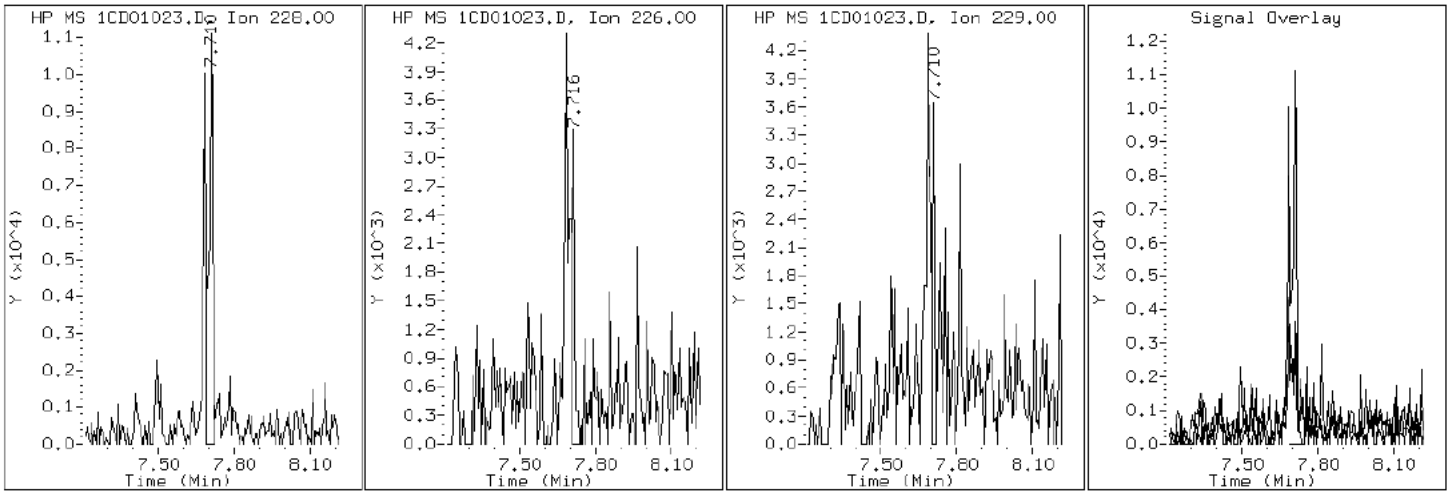
Data File: 1CD01023.D

Date: 01-APR-2013 17:55

Client ID: FM0017D-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-30-a Operator: SCC

19 Chrysene



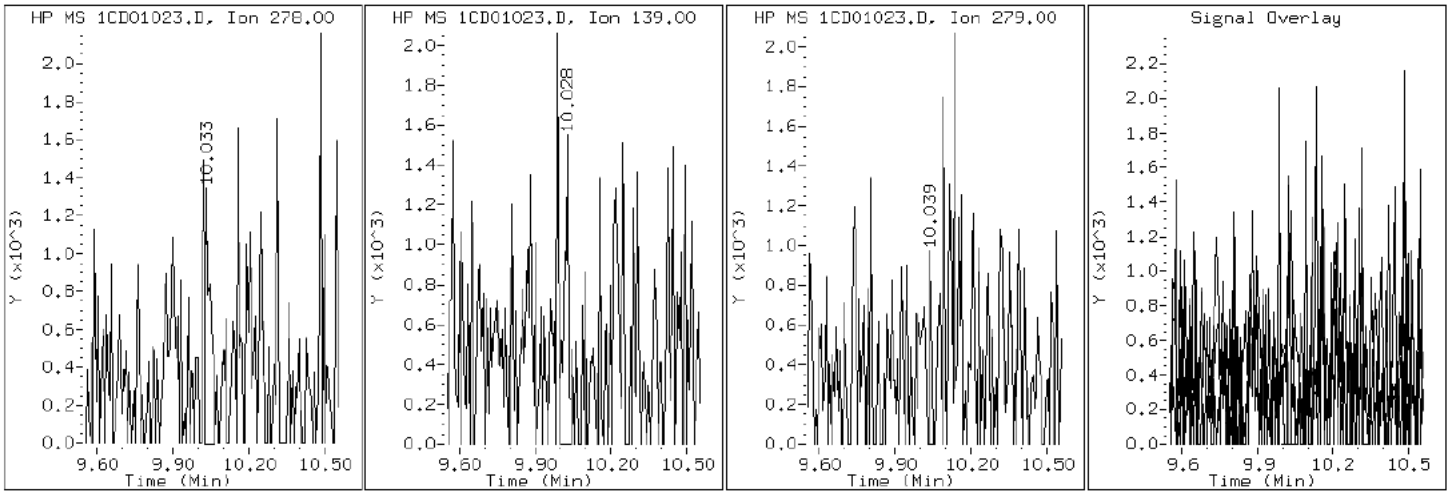
Data File: 1CD01023.D

Date: 01-APR-2013 17:55

Client ID: FM0017D-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-30-a Operator: SCC

25 Dibenzo(a,h)anthracene



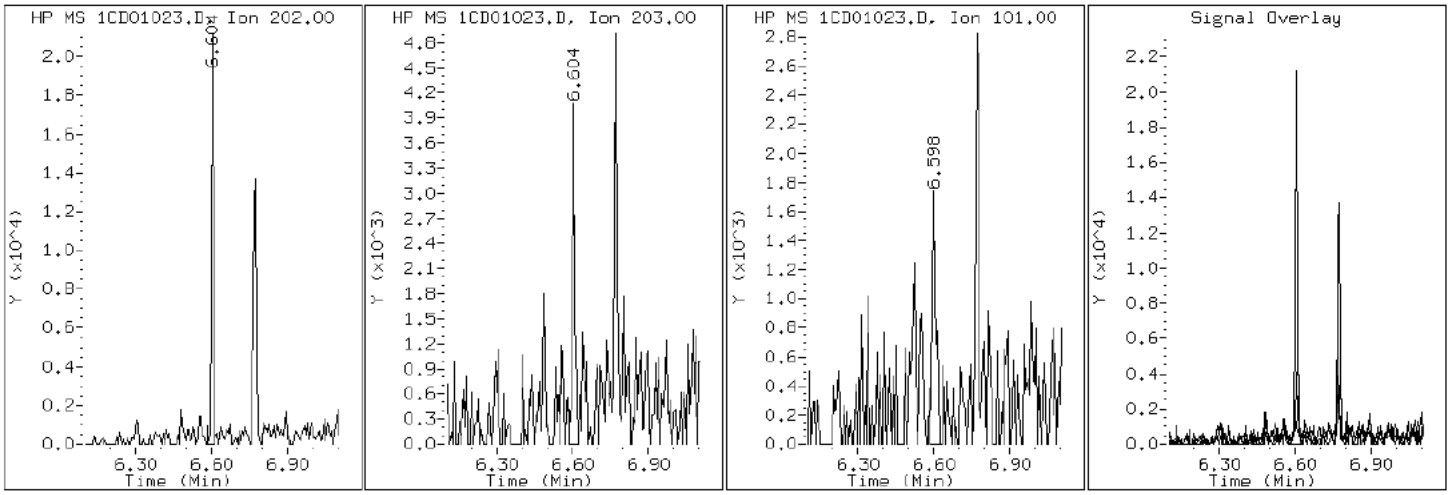
Data File: 1CD01023.D

Date: 01-APR-2013 17:55

Client ID: FM0017D-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-30-a Operator: SCC

15 Fluoranthene



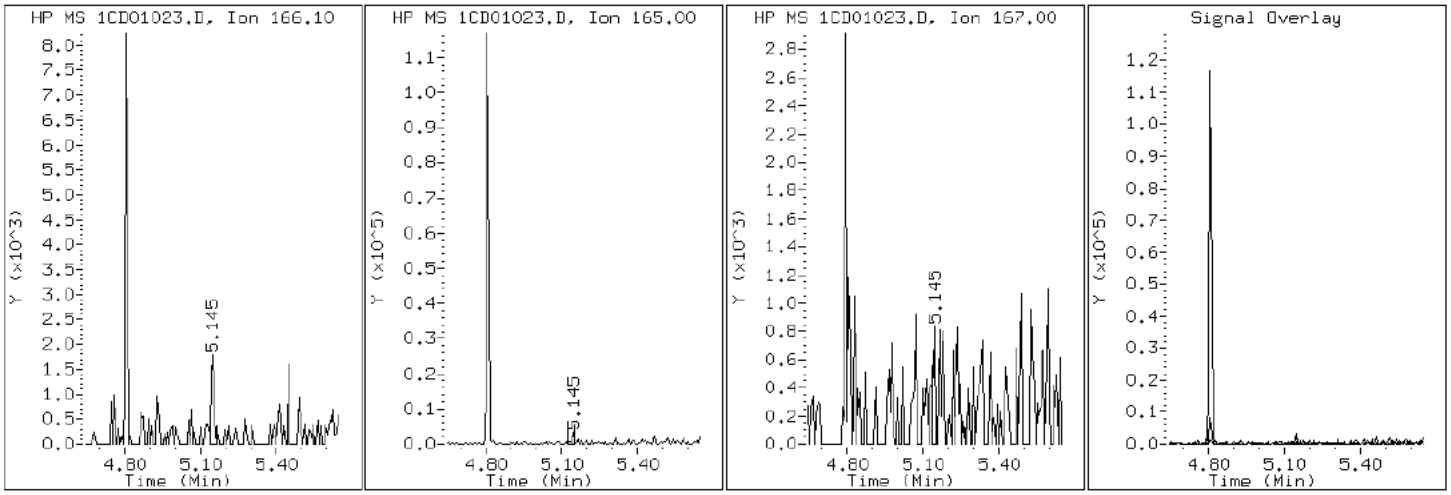
Data File: 1CD01023.D

Date: 01-APR-2013 17:55

Client ID: FM0017D-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-30-a Operator: SCC

9 Fluorene



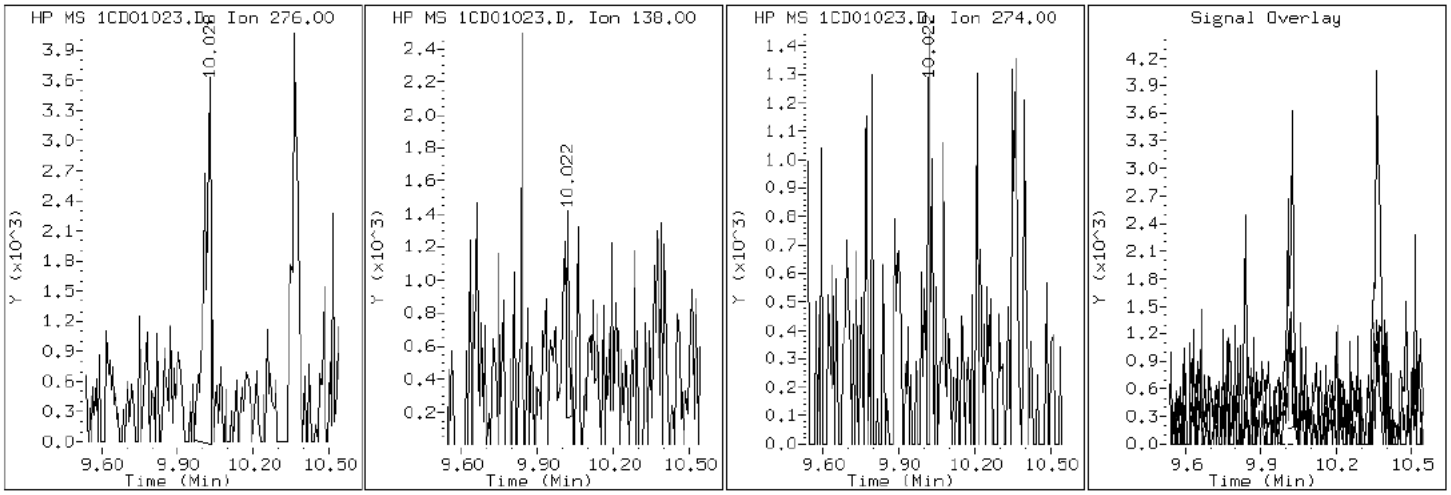
Data File: 1CD01023.D

Date: 01-APR-2013 17:55

Client ID: FM0017D-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-30-a Operator: SCC

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



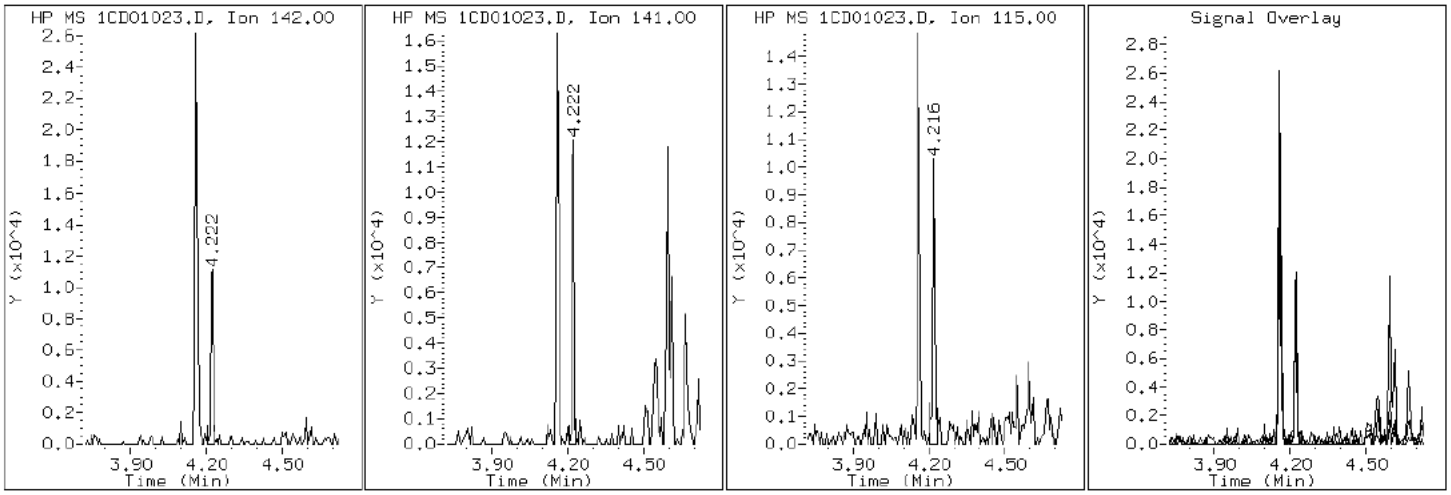
Data File: 1CD01023.D

Date: 01-APR-2013 17:55

Client ID: FM0017D-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-30-a Operator: SCC

4 1-Methylnaphthalene



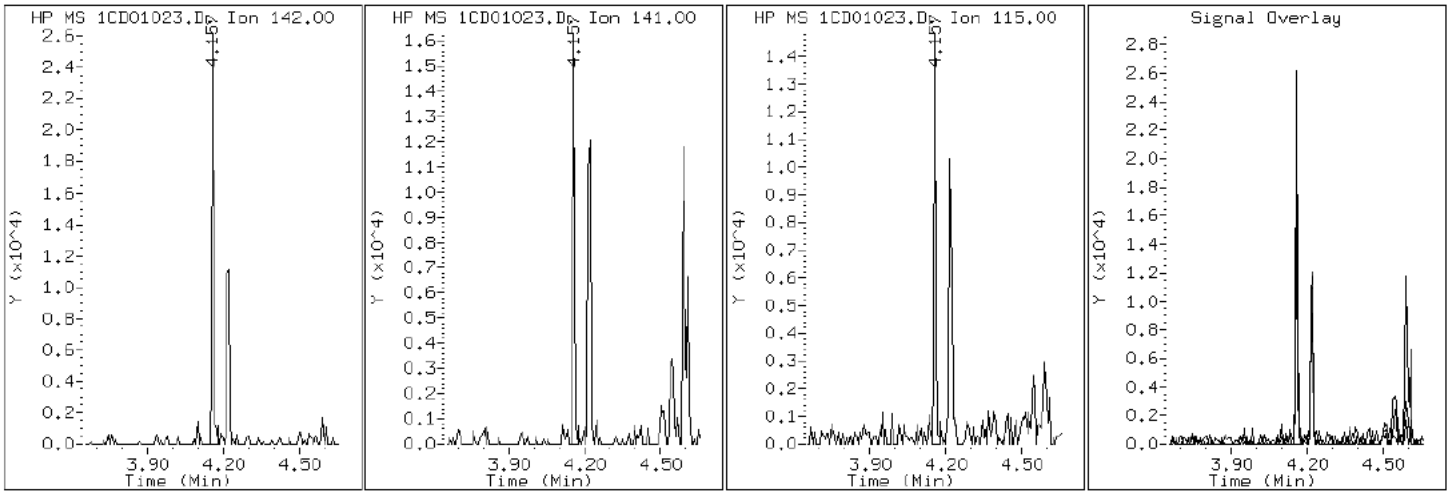
Data File: 1CD01023.D

Date: 01-APR-2013 17:55

Client ID: FM0017D-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-30-a Operator: SCC

3 2-Methylnaphthalene



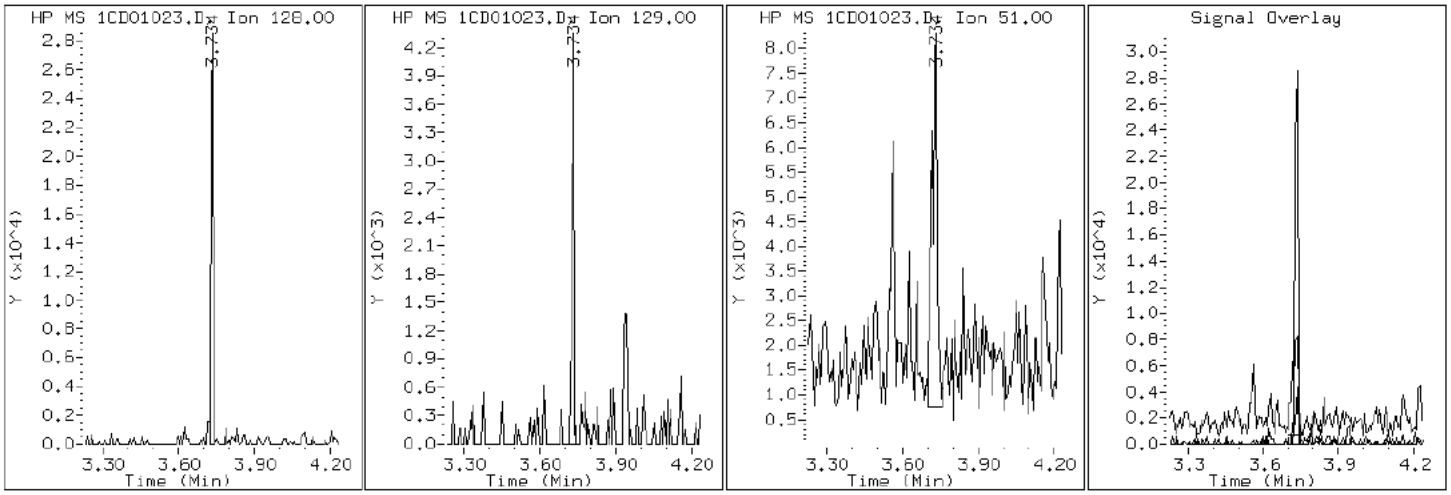
Data File: 1CD01023.D

Date: 01-APR-2013 17:55

Client ID: FM0017D-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-30-a Operator: SCC

2 Naphthalene



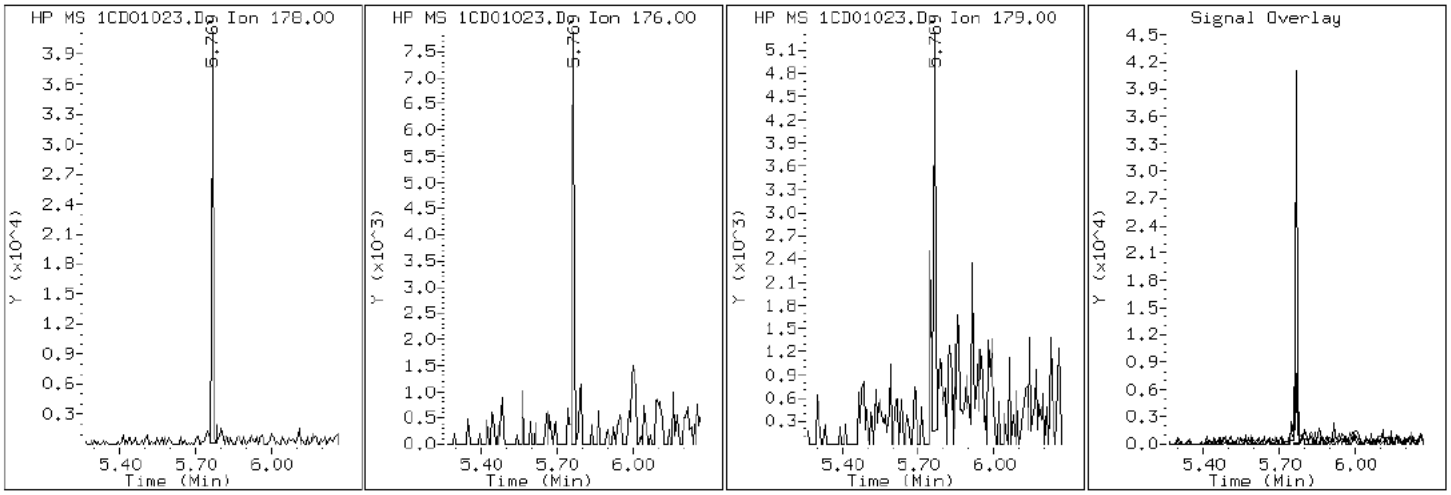
Data File: 1CD01023.D

Date: 01-APR-2013 17:55

Client ID: FM0017D-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-30-a Operator: SCC

11 Phenanthrene



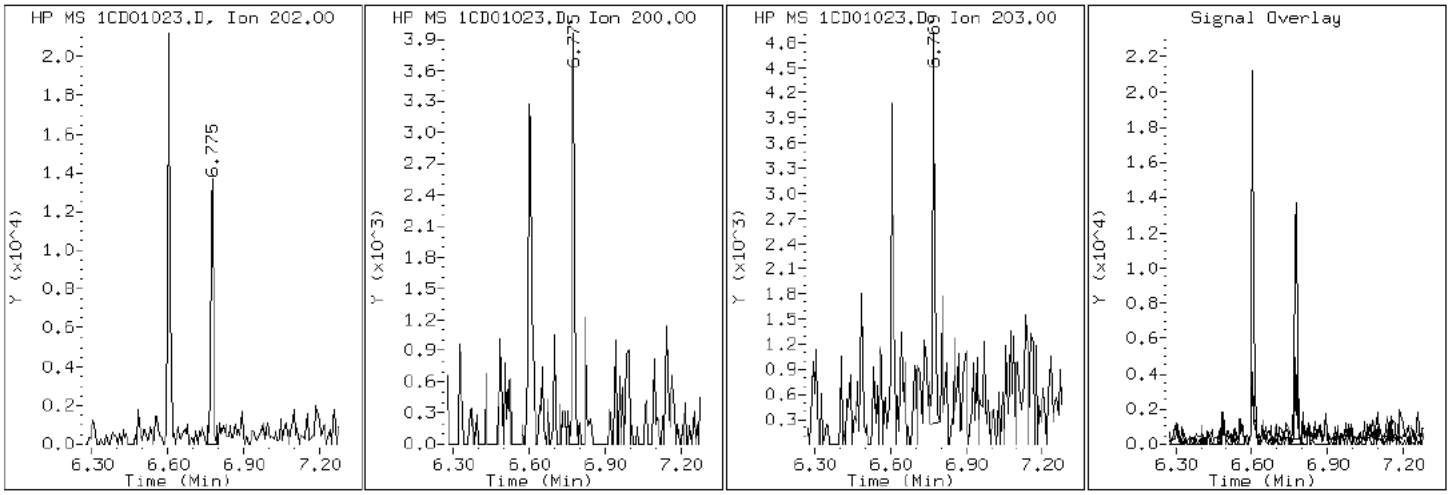
Data File: 1CD01023.D

Date: 01-APR-2013 17:55

Client ID: FM0017D-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88632-a-30-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD01023.D
Inj. Date and Time: 01-APR-2013 17:55
Instrument ID: BSMC5973.i
Client ID: FM0017D-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

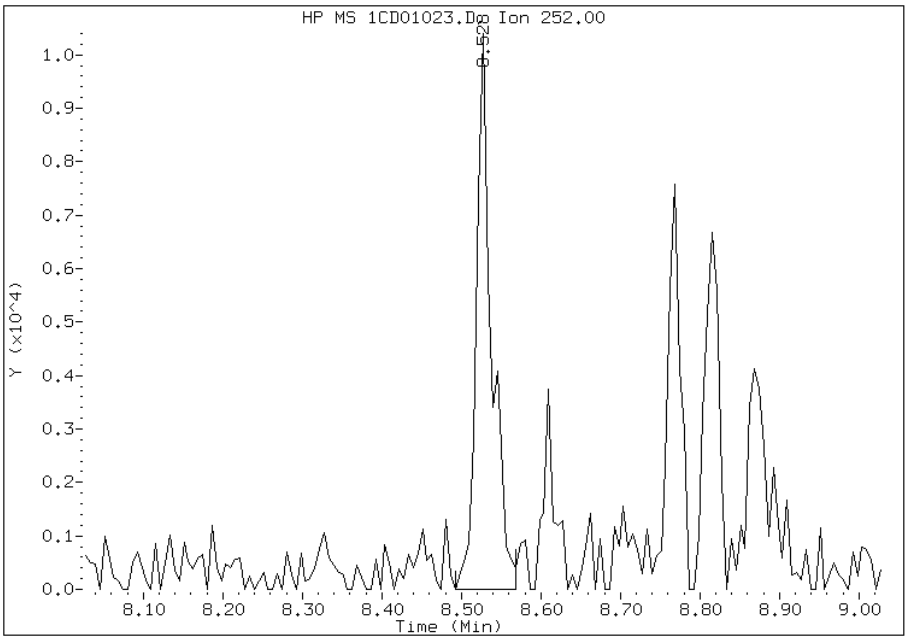
Processing Integration Results

RT: 8.53

Response: 13933

Amount: 1

Conc: 191



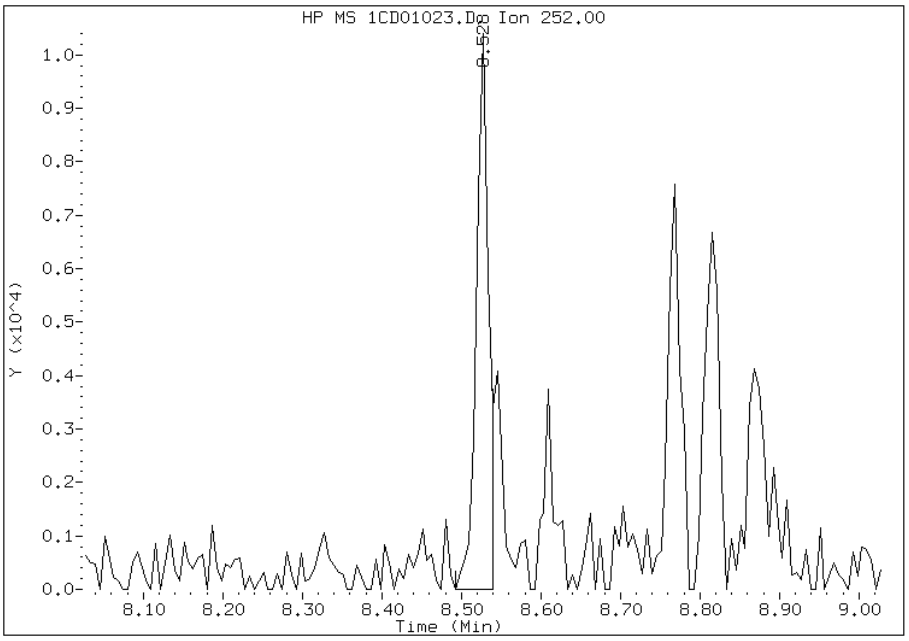
Manual Integration Results

RT: 8.53

Response: 11102

Amount: 0

Conc: 152



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:27
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD01023.D
Inj. Date and Time: 01-APR-2013 17:55
Instrument ID: BSMC5973.i
Client ID: FM0017D-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/03/2013

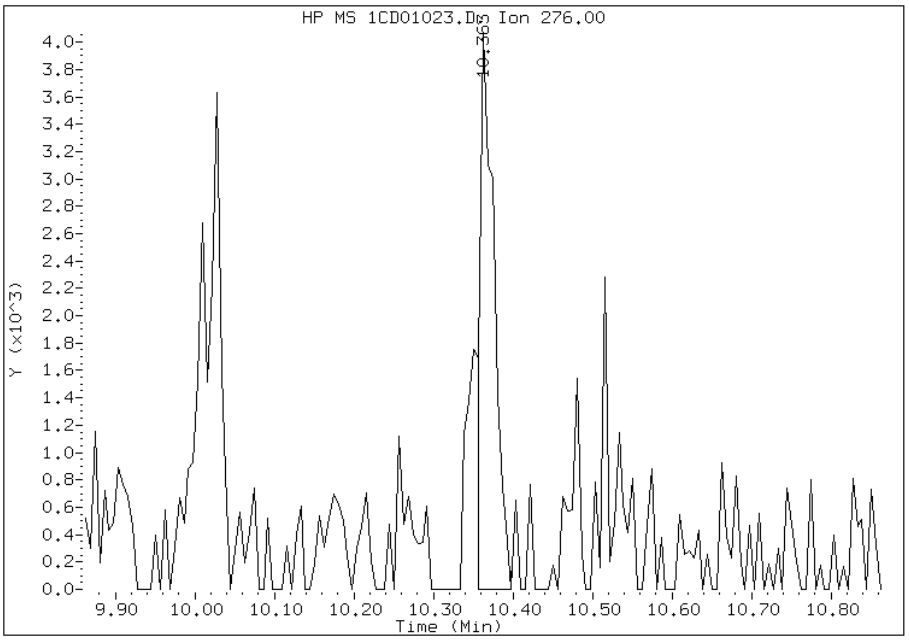
Processing Integration Results

RT: 10.36

Response: 5111

Amount: 0

Conc: 73



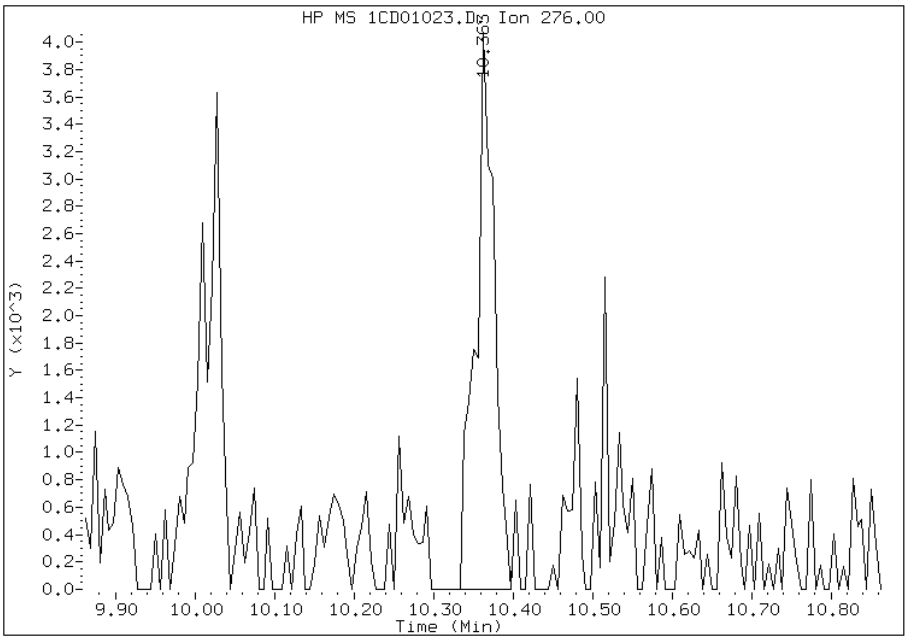
Manual Integration Results

RT: 10.36

Response: 6621

Amount: 0

Conc: 95



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01023.D
Inj. Date and Time: 01-APR-2013 17:55
Instrument ID: BSMC5973.i
Client ID: FM0017D-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

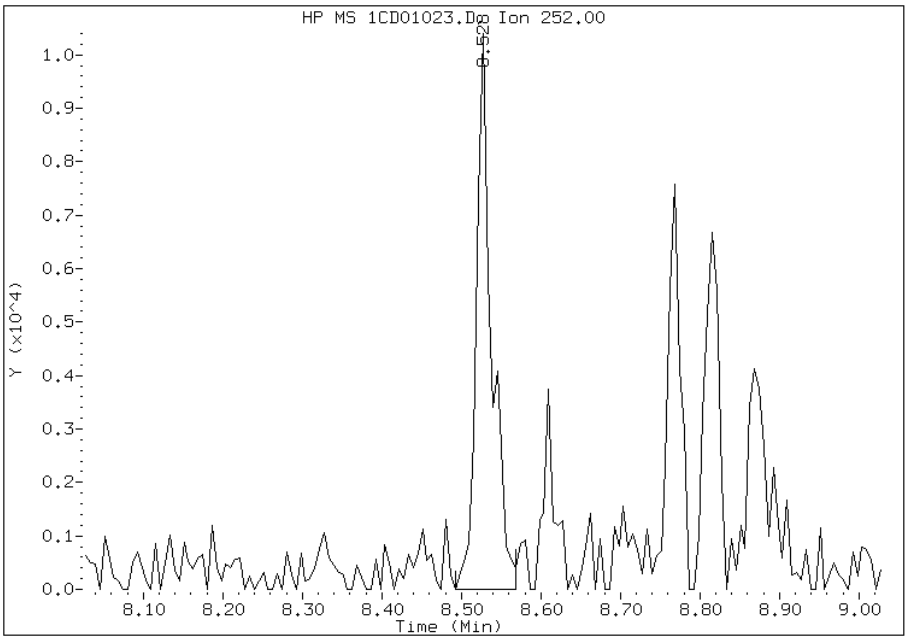
Processing Integration Results

RT: 8.53

Response: 13933

Amount: 1

Conc: 186



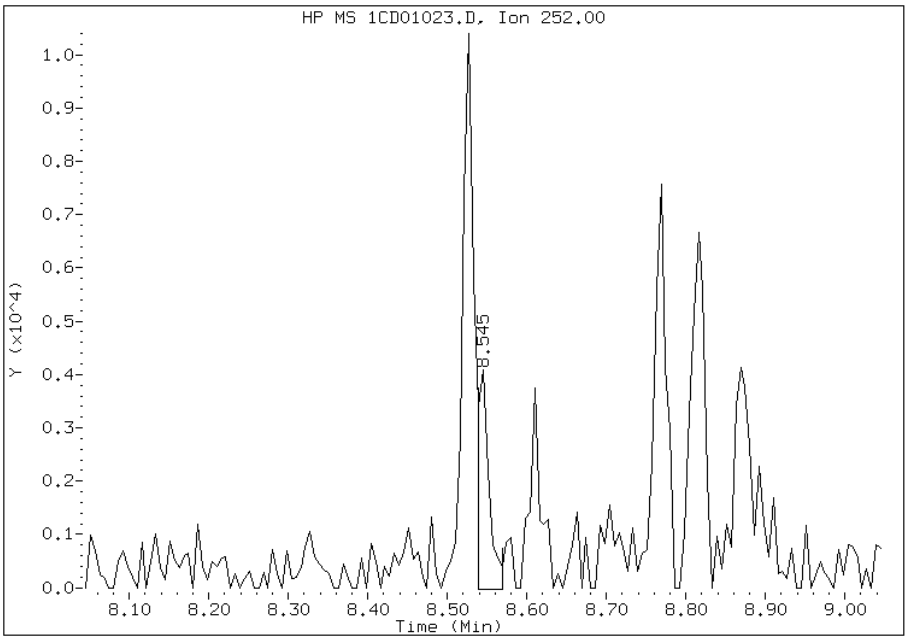
Manual Integration Results

RT: 8.55

Response: 4096

Amount: 0

Conc: 55



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01023.D
Inj. Date and Time: 01-APR-2013 17:55
Instrument ID: BSMC5973.i
Client ID: FM0017D-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/03/2013

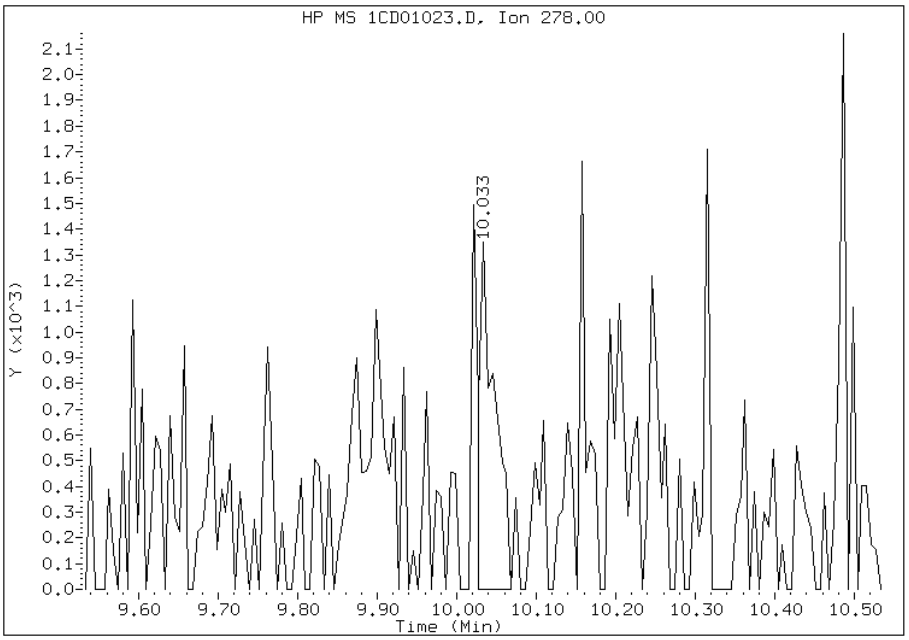
Processing Integration Results

RT: 10.03

Response: 1873

Amount: 0

Conc: 29



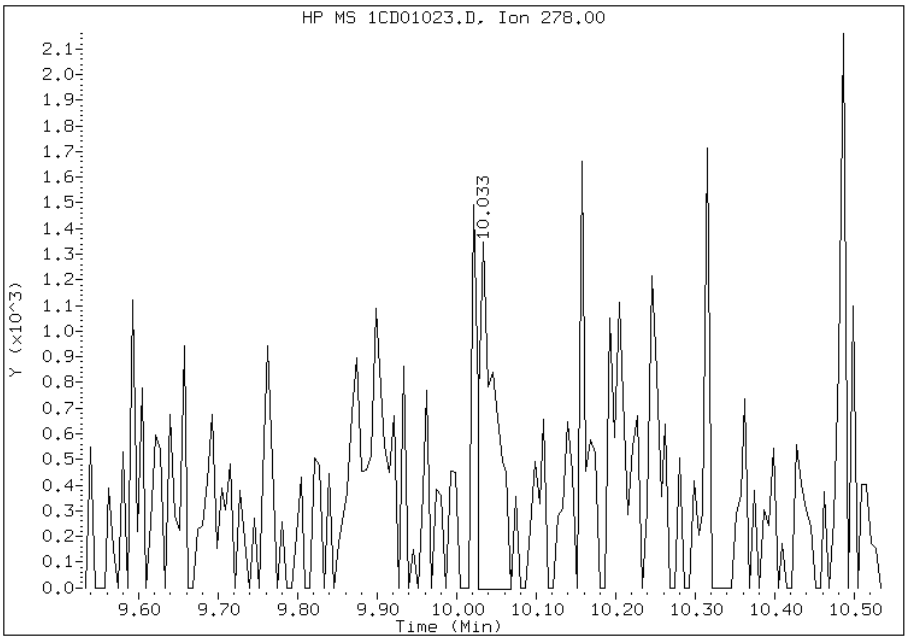
Manual Integration Results

RT: 10.03

Response: 1890

Amount: 0

Conc: 29



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01023.D
Inj. Date and Time: 01-APR-2013 17:55
Instrument ID: BSMC5973.i
Client ID: FM0017D-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

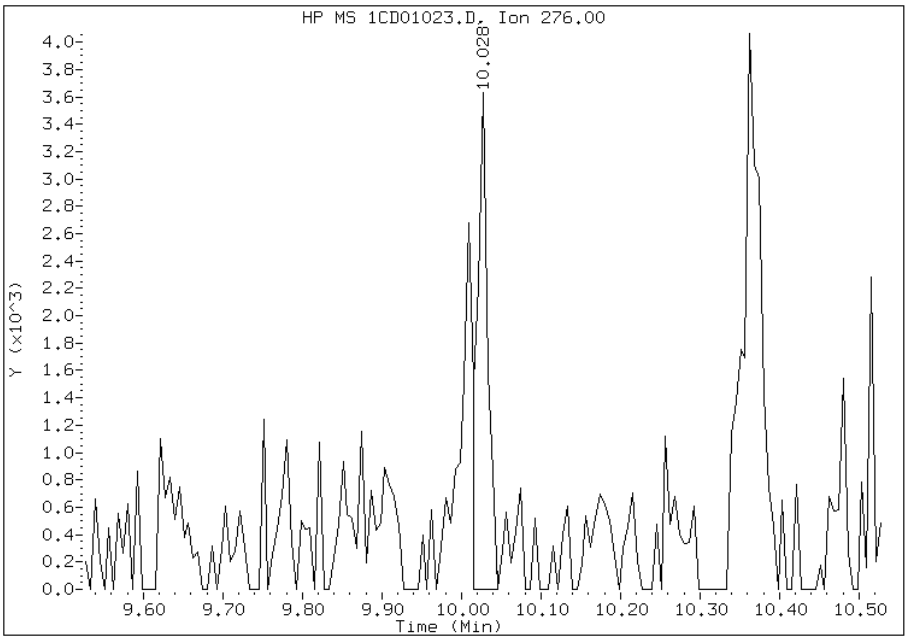
Processing Integration Results

RT: 10.03

Response: 3461

Amount: 0

Conc: 52



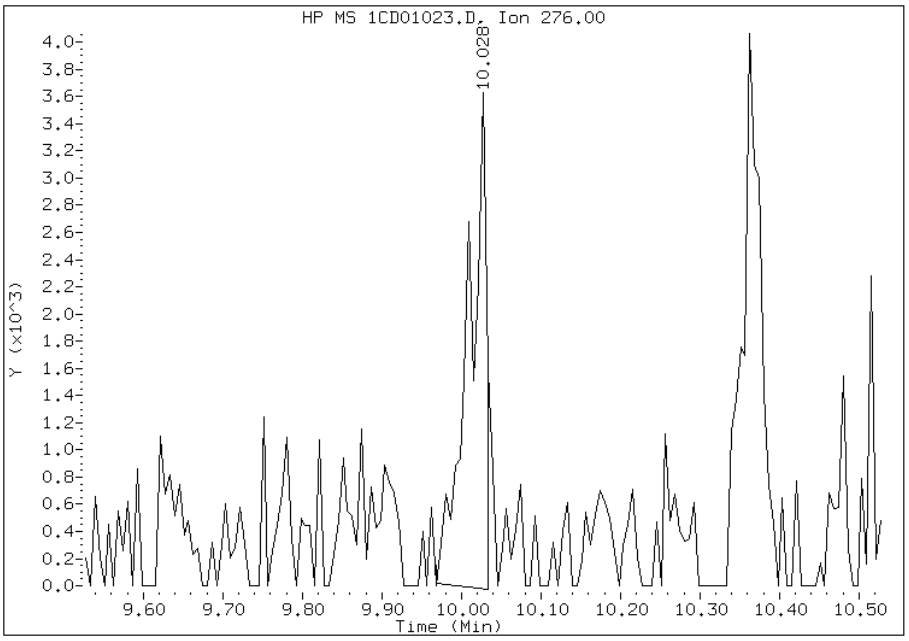
Manual Integration Results

RT: 10.03

Response: 5830

Amount: 0

Conc: 87



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:28
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: CV0197A-CS | Lab Sample ID: 680-88632-31

Matrix: Solid | Lab File ID: 1CD01024.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 13:30

Extract. Method: 3546 | Date Extracted: 03/27/2013 15:04

Sample wt/vol: 14.96(g) | Date Analyzed: 04/01/2013 18:13

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.: 135996 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	590	U	590	120
208-96-8	Acenaphthylene	240	U	240	29
120-12-7	Anthracene	93		50	25
56-55-3	Benzo[a]anthracene	440		47	23
50-32-8	Benzo[a]pyrene	360		61	31
205-99-2	Benzo[b]fluoranthene	510		72	36
191-24-2	Benzo[g,h,i]perylene	280		120	26
207-08-9	Benzo[k]fluoranthene	210		47	21
218-01-9	Chrysene	380		53	27
53-70-3	Dibenz(a,h)anthracene	88	J	120	24
206-44-0	Fluoranthene	540		120	24
86-73-7	Fluorene	33	J	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	220		120	42
90-12-0	1-Methylnaphthalene	130	J	240	26
91-57-6	2-Methylnaphthalene	190	J	240	42
91-20-3	Naphthalene	130	J	240	26
85-01-8	Phenanthrene	420		47	23
129-00-0	Pyrene	560		120	22

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01024.D
Lab Smp Id: 680-88632-A-31-A Client Smp ID: CV0197A-CS
Inj Date : 01-APR-2013 18:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-31-a
Misc Info : 680-88632-A-31-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	14.960	Weight Extracted
M	32.009	% 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	3.716	3.716	(1.000)	652339	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	502117	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	928229	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	31499	2.24757	883.8791
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1015780	40.0000	
* 23 Perylene-d12	264	8.868	8.886	(1.000)	987597	40.0000	
2 Naphthalene	128	3.733	3.733	(1.005)	5547	0.32662	128.4478(Q)
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	5614	0.49557	194.8887
4 1-Methylnaphthalene	142	4.221	4.222	(1.136)	3531	0.34224	134.5884(Q)
9 Fluorene	166	5.145	5.145	(1.071)	1345	0.08452	33.2390
11 Phenanthrene	178	5.768	5.768	(1.003)	28868	1.07555	422.9692
12 Anthracene	178	5.804	5.804	(1.009)	6211	0.23661	93.0502
13 Carbazole	167	5.915	5.910	(1.029)	4075	0.17464	68.6777
15 Fluoranthene	202	6.604	6.604	(1.148)	40063	1.36300	536.0108

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.768	6.774	(0.880)	38738	1.41910	558.0736
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	32725	1.11623	438.9689
19 Chrysene	228	7.709	7.715	(1.002)	28645	0.97633	383.9519
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.962)	33319	1.29095	507.6801(M)
21 Benzo(k)fluoranthene	252	8.539	8.562	(0.963)	14075	0.53160	209.0571(M)
22 Benzo(a)pyrene	252	8.815	8.827	(0.994)	23069	0.92020	361.8772
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.039	(1.130)	13267	0.56256	221.2311(M)
25 Dibenzo(a,h)anthracene	278	10.039	10.056	(1.132)	5190	0.22499	88.4788
26 Benzo(g,h,i)perylene	276	10.368	10.386	(1.169)	17488	0.70887	278.7707(M)

QC Flag Legend

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

Data File: 1CD01024.D

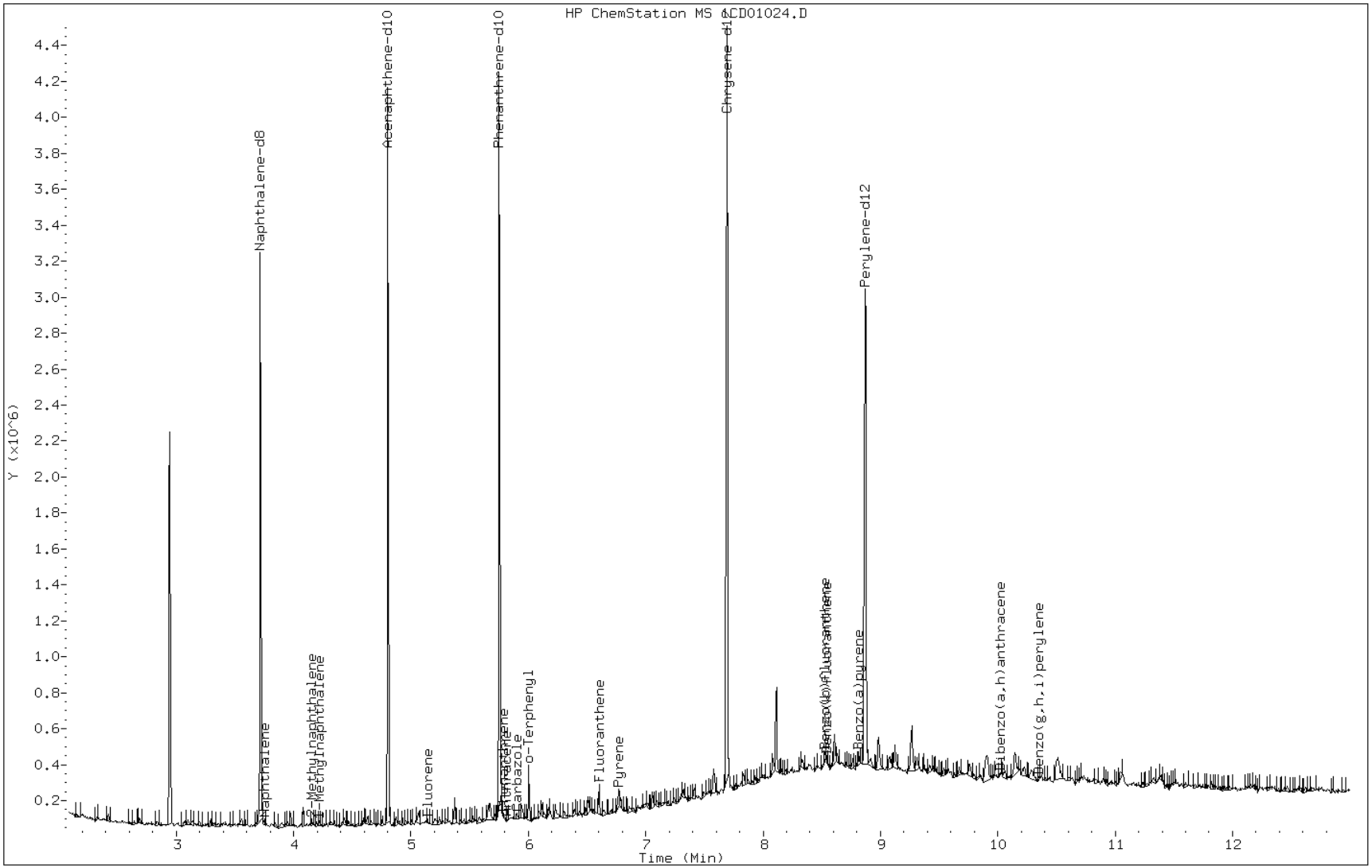
Date: 01-APR-2013 18:13

Client ID: CV0197A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-31-a

Operator: SCC



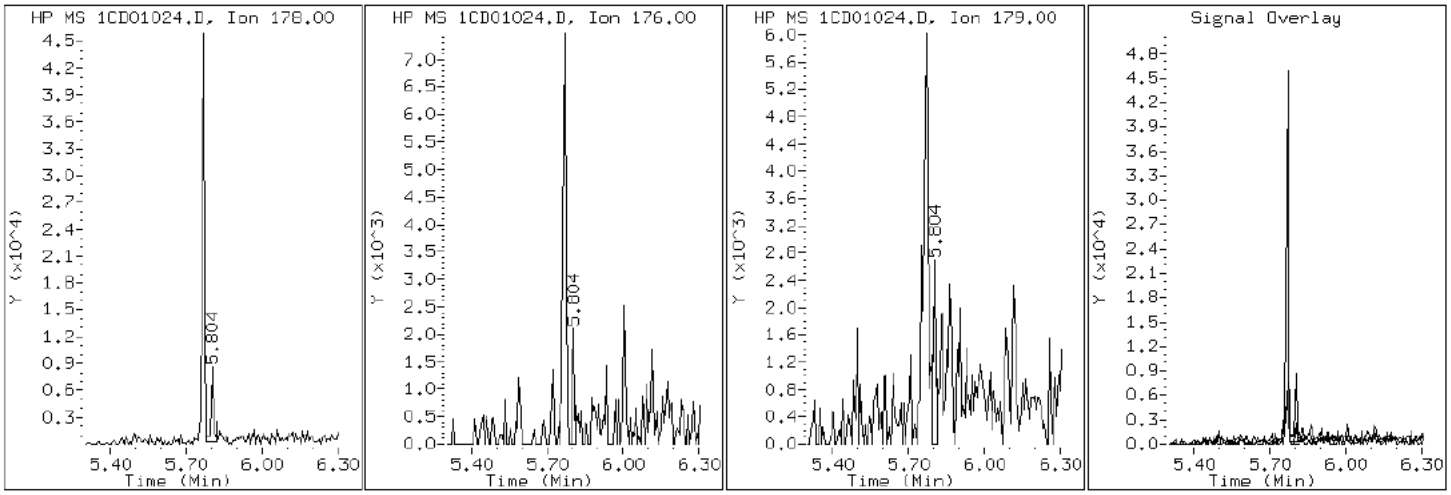
Data File: 1CD01024.D

Date: 01-APR-2013 18:13

Client ID: CV0197A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-31-a Operator: SCC

12 Anthracene



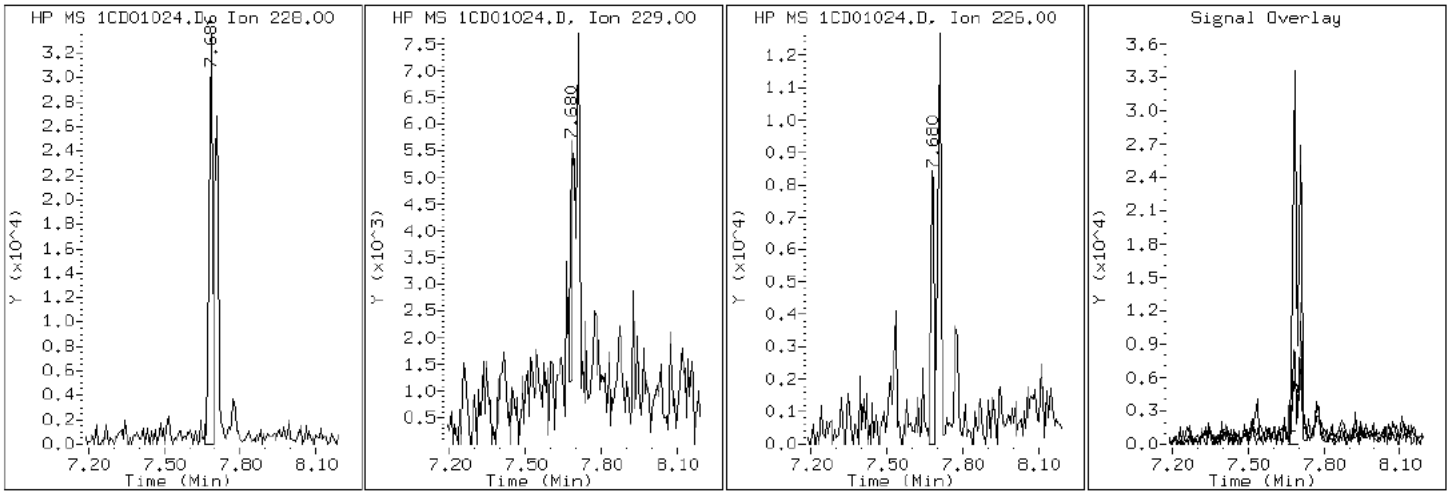
Data File: 1CD01024.D

Date: 01-APR-2013 18:13

Client ID: CV0197A-CS | Instrument: BSMC5973.i

Sample Info: 680-88632-a-31-a | Operator: SCC

17 Benzo(a)anthracene



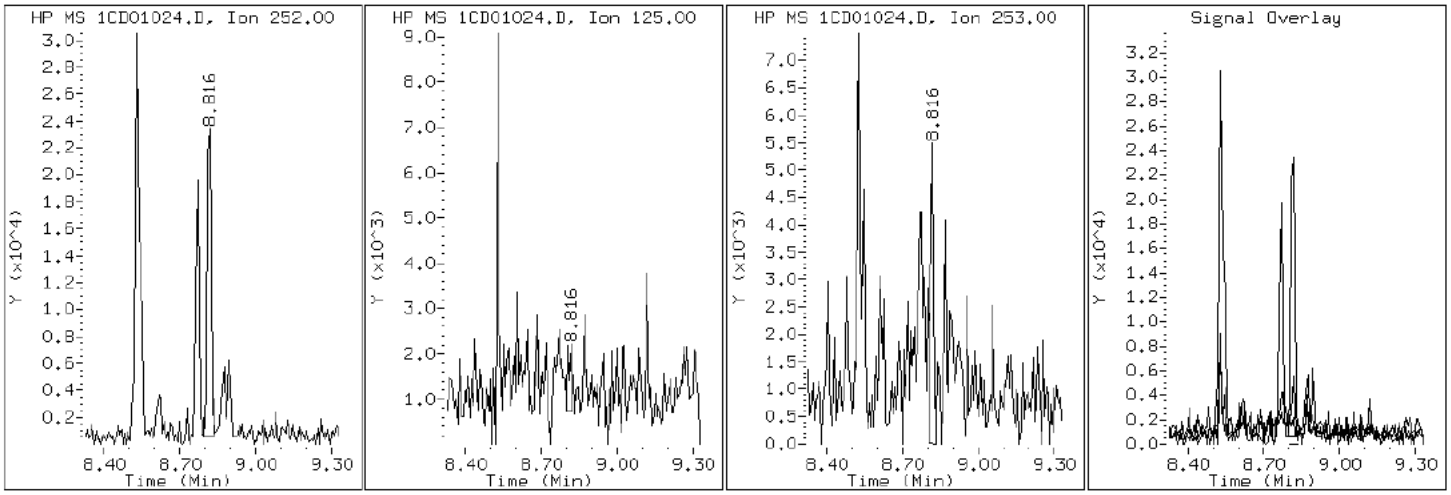
Data File: 1CD01024.D

Date: 01-APR-2013 18:13

Client ID: CV0197A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-31-a Operator: SCC

22 Benzo(a)pyrene



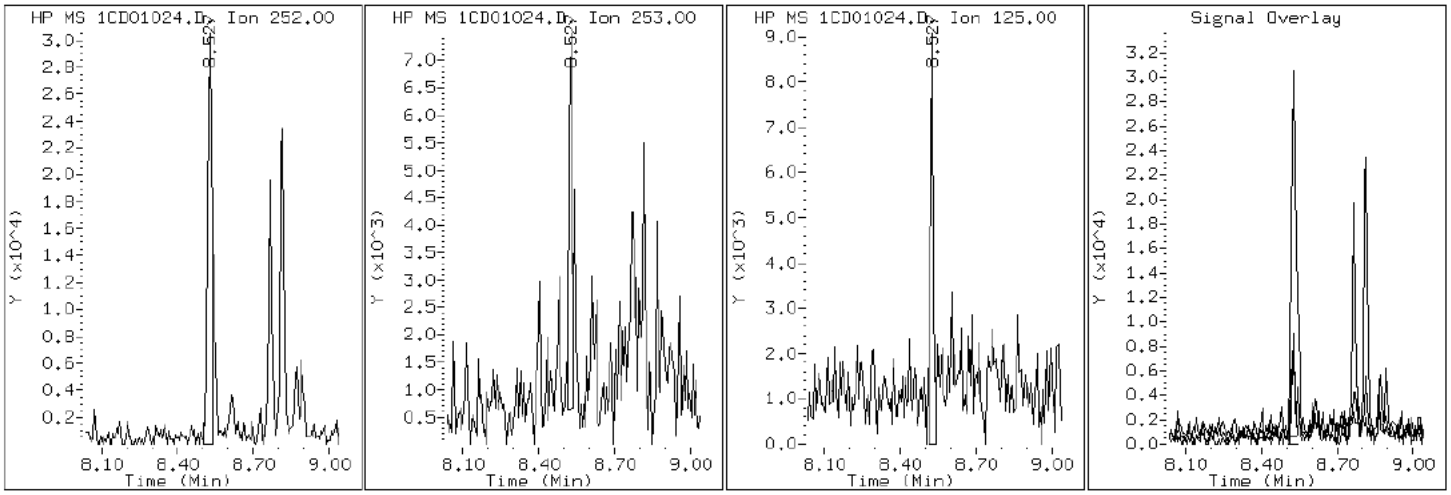
Data File: 1CD01024.D

Date: 01-APR-2013 18:13

Client ID: CV0197A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-31-a Operator: SCC

20 Benzo(b)fluoranthene



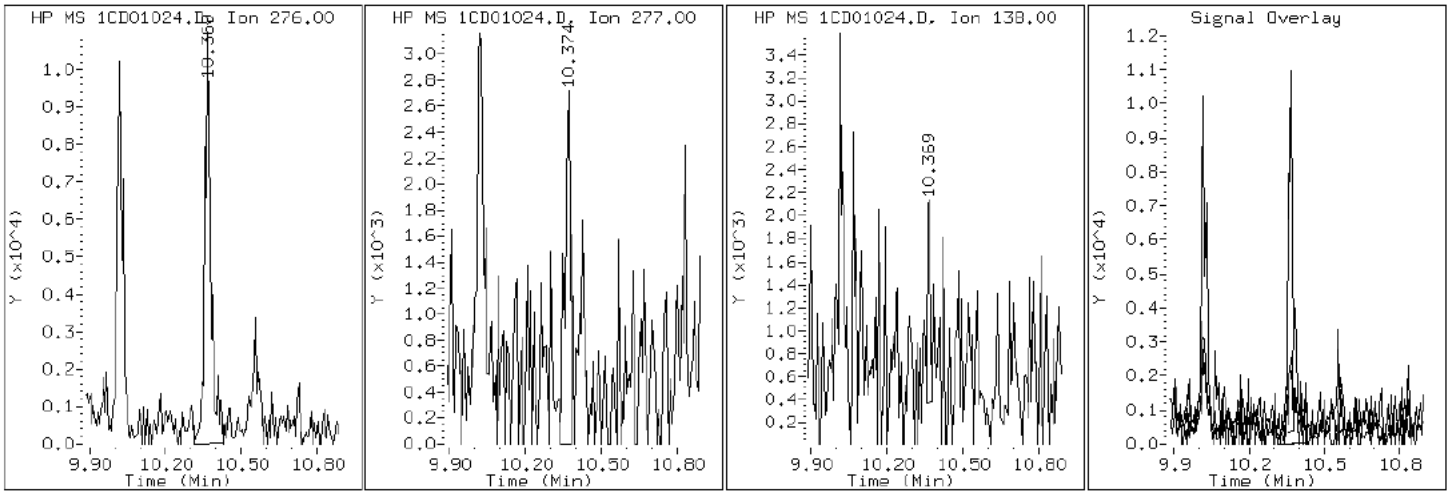
Data File: 1CD01024.D

Date: 01-APR-2013 18:13

Client ID: CV0197A-CS | Instrument: BSMC5973.i

Sample Info: 680-88632-a-31-a | Operator: SCC

26 Benzo(g,h,i)perylene



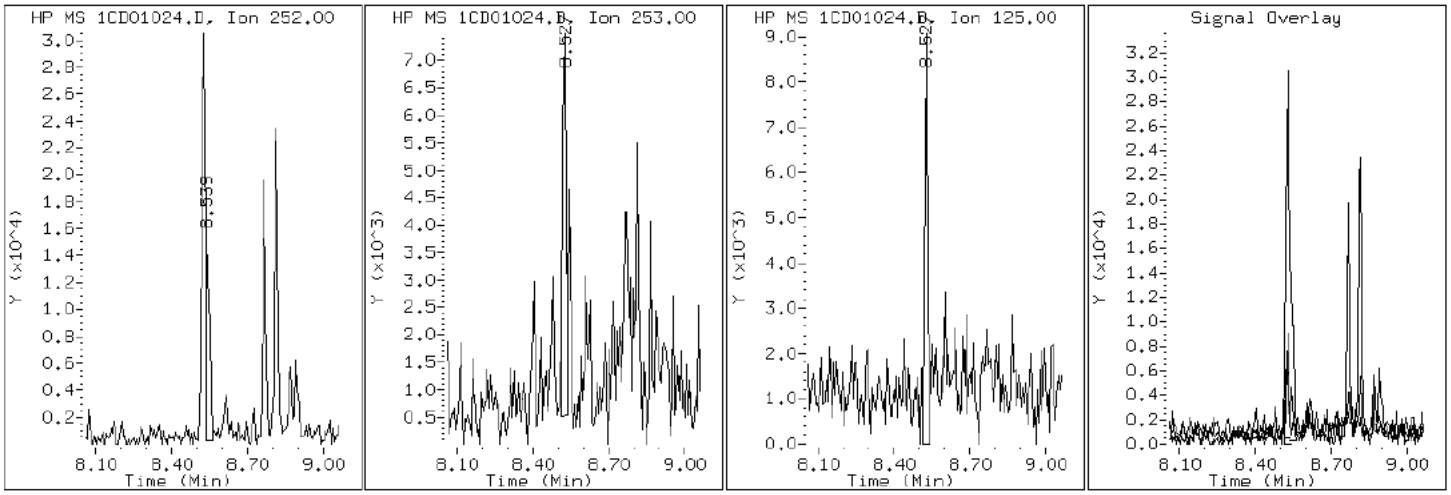
Data File: 1CD01024.D

Date: 01-APR-2013 18:13

Client ID: CV0197A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-31-a Operator: SCC

21 Benzo(k)fluoranthene



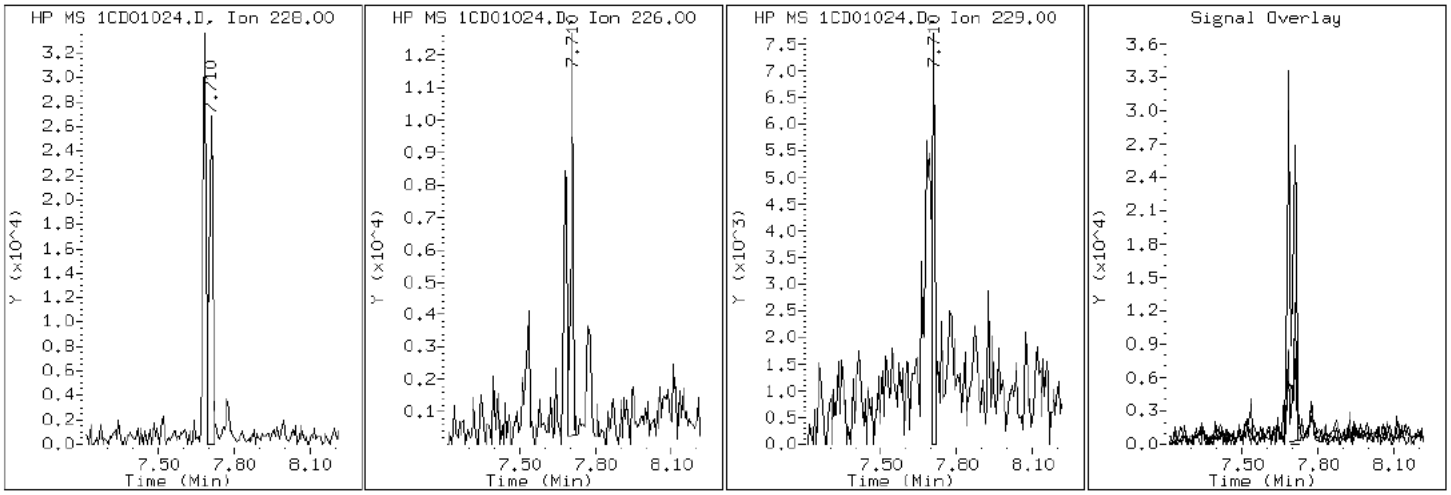
Data File: 1CD01024.D

Date: 01-APR-2013 18:13

Client ID: CV0197A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-31-a Operator: SCC

19 Chrysene



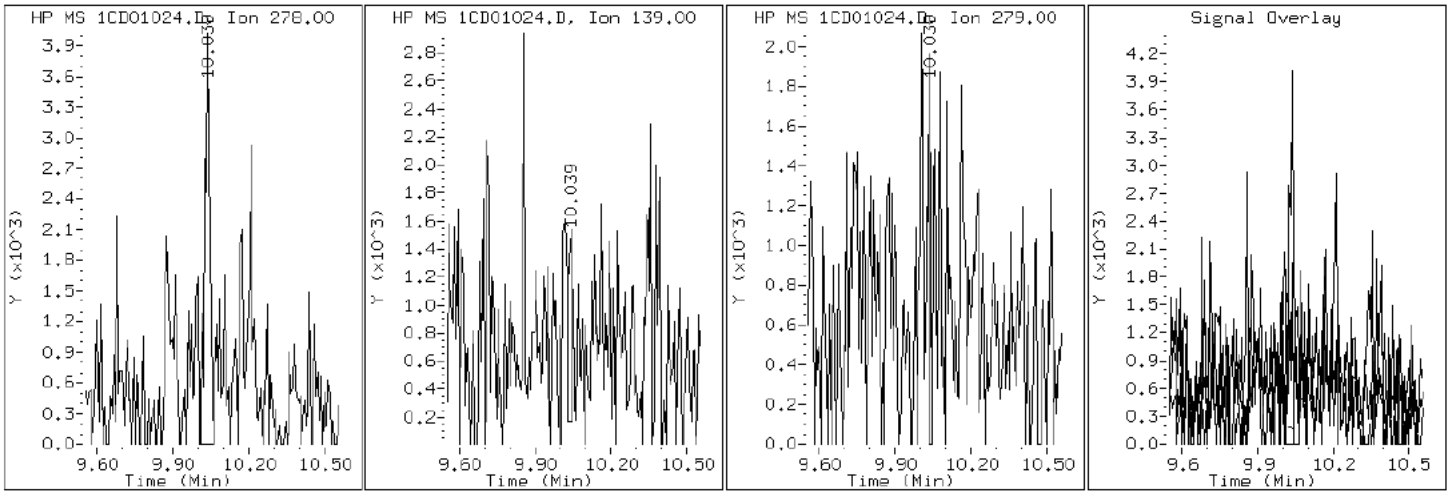
Data File: 1CD01024.D

Date: 01-APR-2013 18:13

Client ID: CV0197A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-31-a Operator: SCC

25 Dibenzo(a,h)anthracene



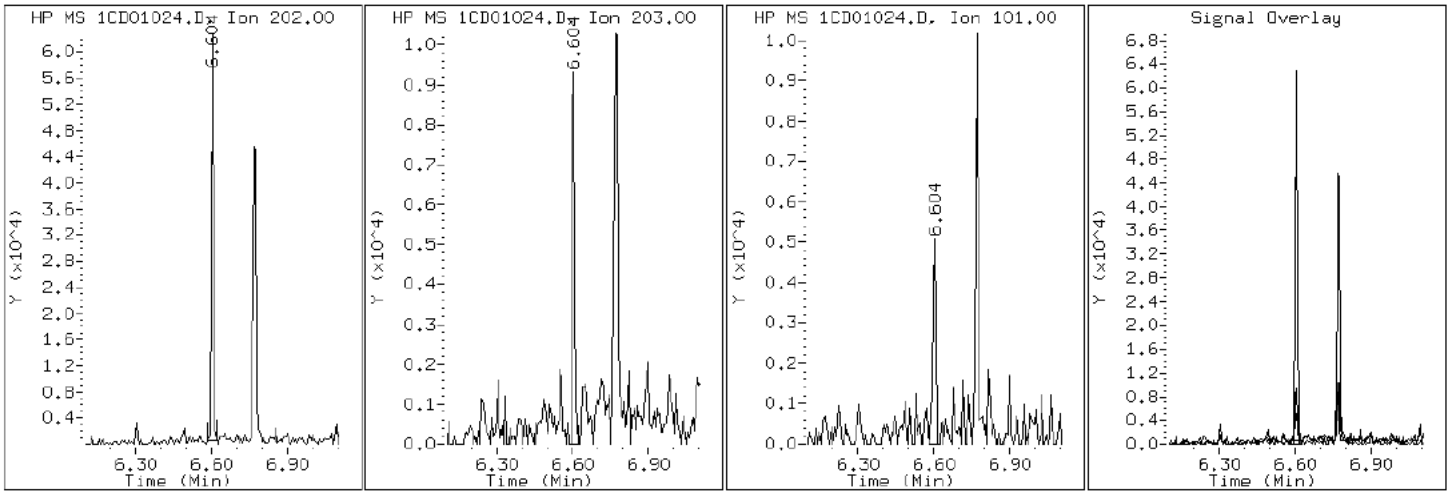
Data File: 1CD01024.D

Date: 01-APR-2013 18:13

Client ID: CV0197A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-31-a Operator: SCC

15 Fluoranthene



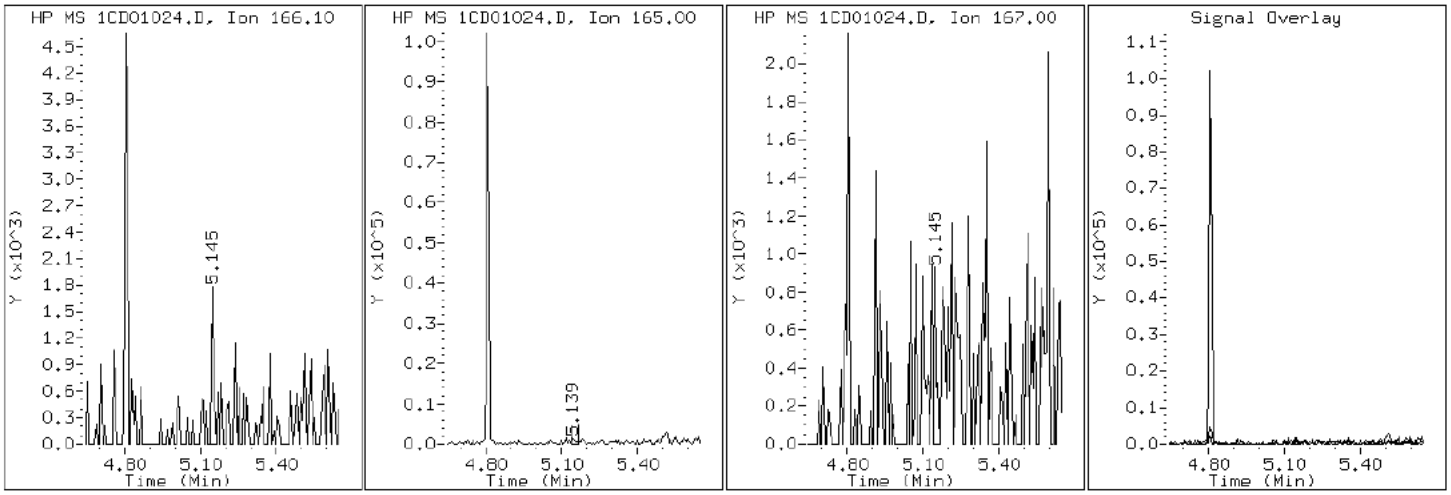
Data File: 1CD01024.D

Date: 01-APR-2013 18:13

Client ID: CV0197A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-31-a Operator: SCC

9 Fluorene



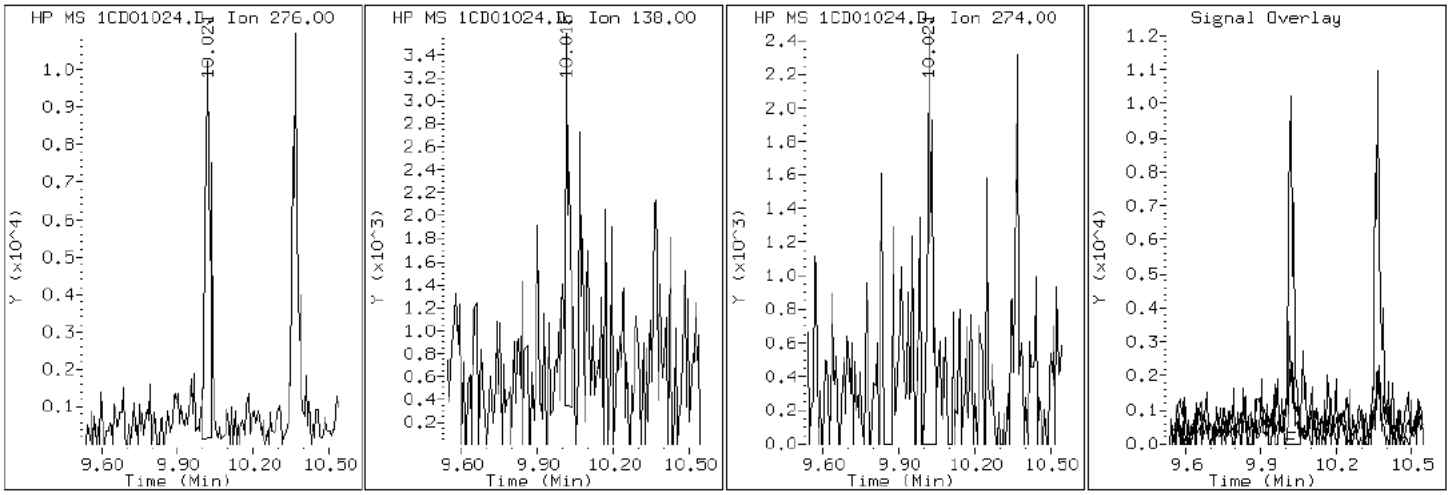
Data File: 1CD01024.D

Date: 01-APR-2013 18:13

Client ID: CV0197A-CS | Instrument: BSMC5973.i

Sample Info: 680-88632-a-31-a | Operator: SCC

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



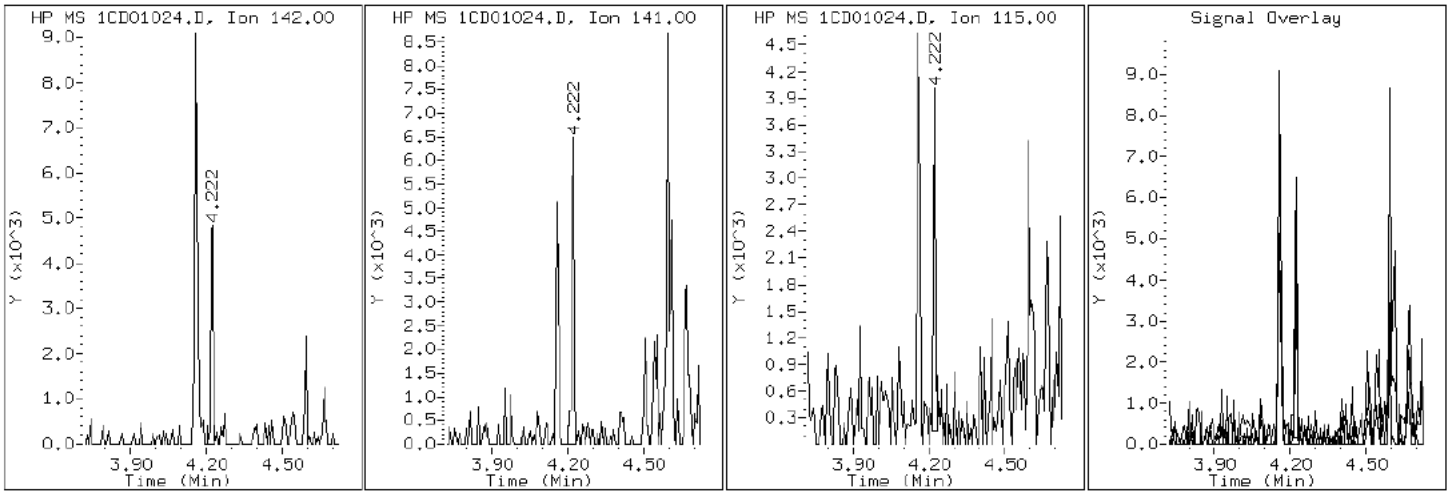
Data File: 1CD01024.D

Date: 01-APR-2013 18:13

Client ID: CV0197A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-31-a Operator: SCC

4 1-Methylnaphthalene



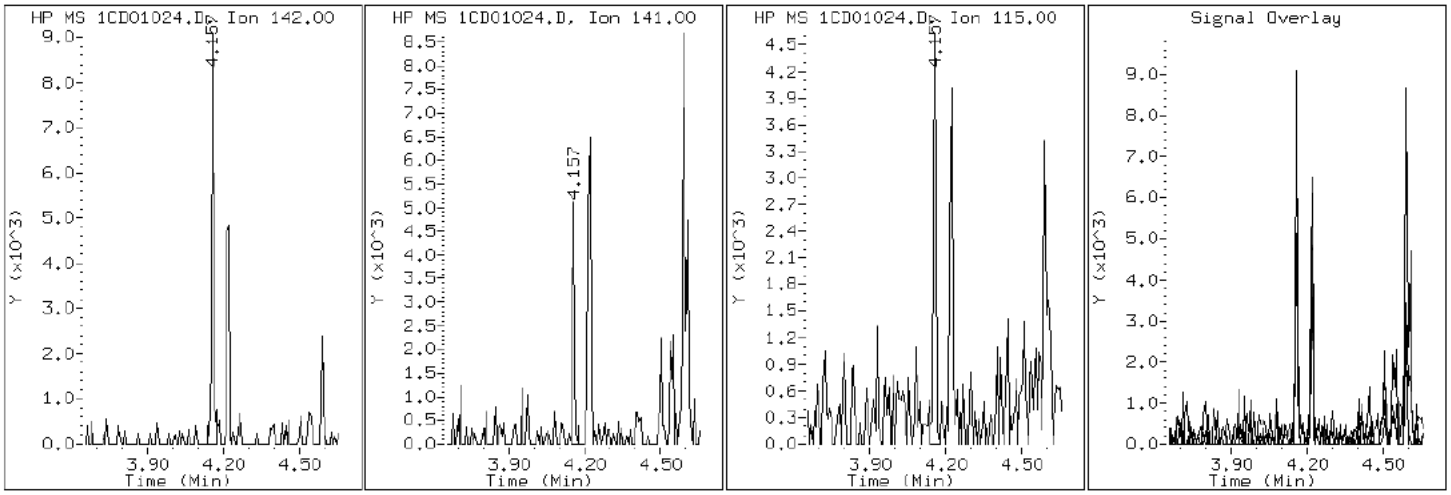
Data File: 1CD01024.D

Date: 01-APR-2013 18:13

Client ID: CV0197A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-31-a Operator: SCC

3 2-Methylnaphthalene



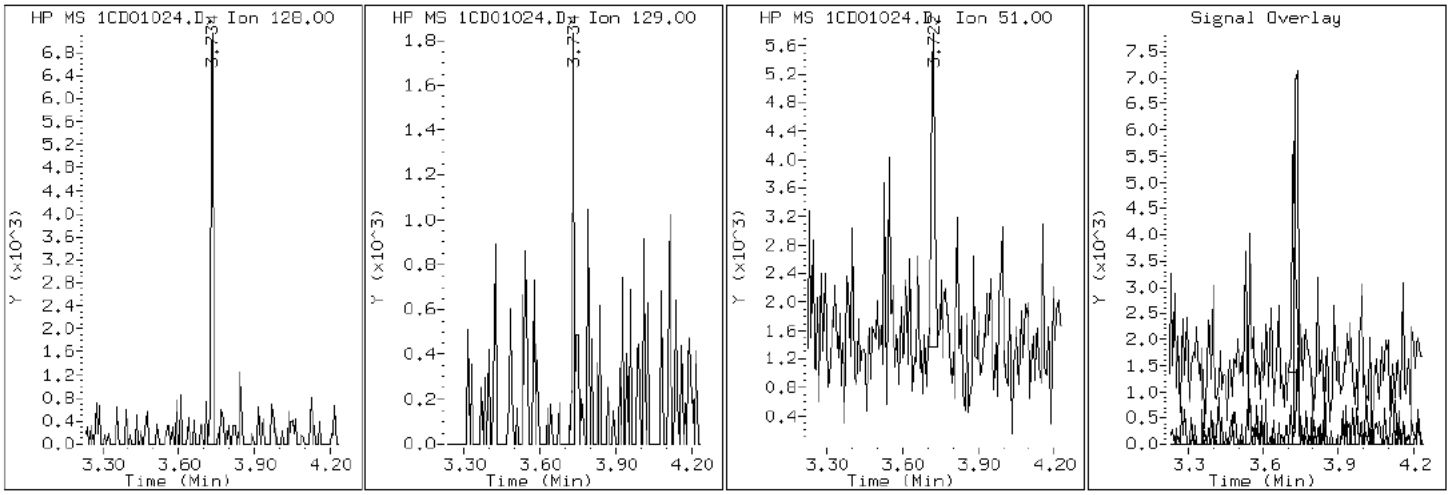
Data File: 1CD01024.D

Date: 01-APR-2013 18:13

Client ID: CV0197A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-31-a Operator: SCC

2 Naphthalene



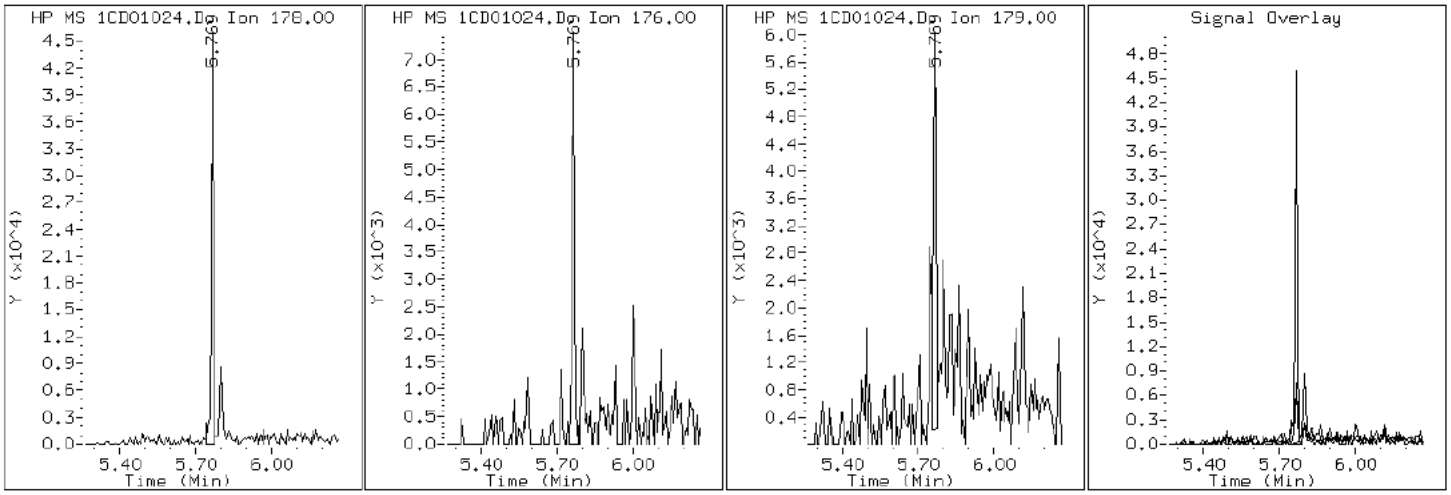
Data File: 1CD01024.D

Date: 01-APR-2013 18:13

Client ID: CV0197A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-31-a Operator: SCC

11 Phenanthrene



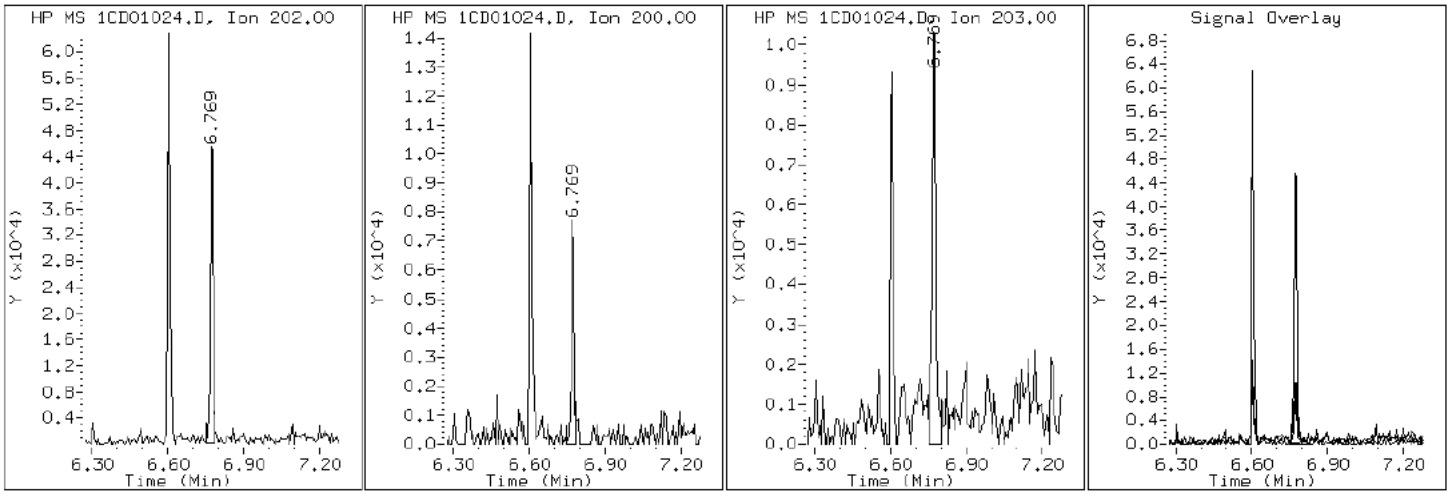
Data File: 1CD01024.D

Date: 01-APR-2013 18:13

Client ID: CV0197A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-31-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD01024.D
Inj. Date and Time: 01-APR-2013 18:13
Instrument ID: BSMC5973.i
Client ID: CV0197A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

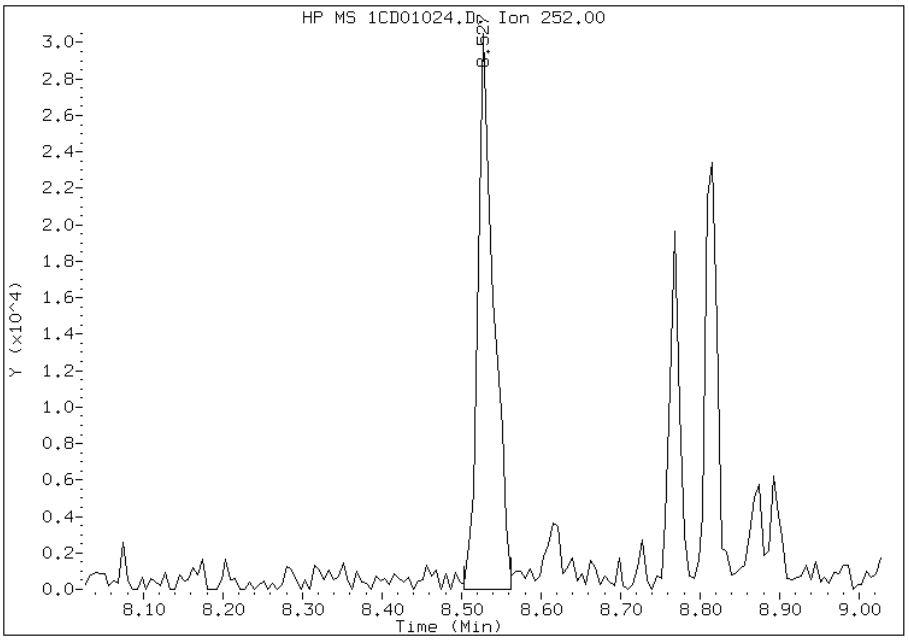
Processing Integration Results

RT: 8.53

Response: 42352

Amount: 2

Conc: 645



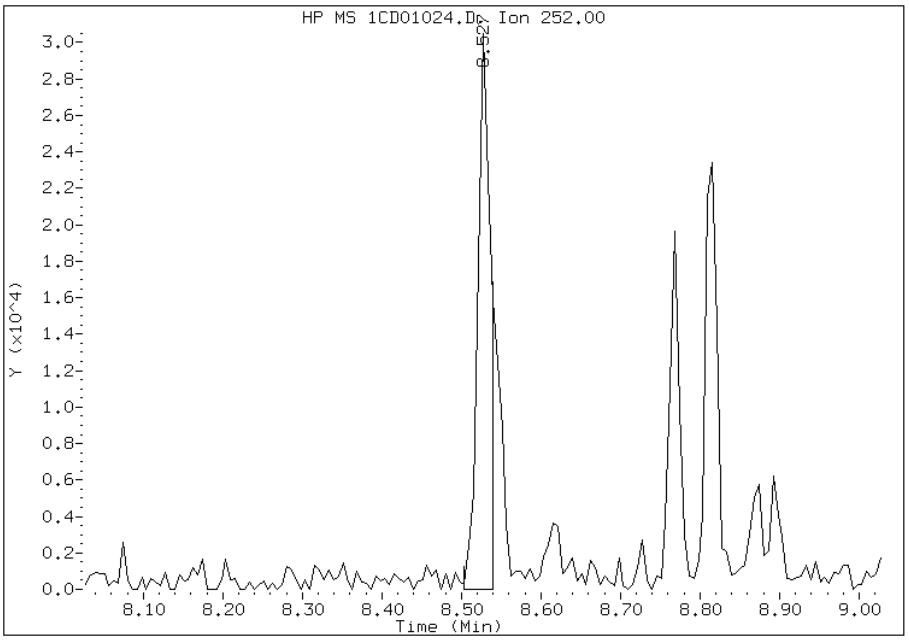
Manual Integration Results

RT: 8.53

Response: 33319

Amount: 1

Conc: 508



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 09:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD01024.D
Inj. Date and Time: 01-APR-2013 18:13
Instrument ID: BSMC5973.i
Client ID: CV0197A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/03/2013

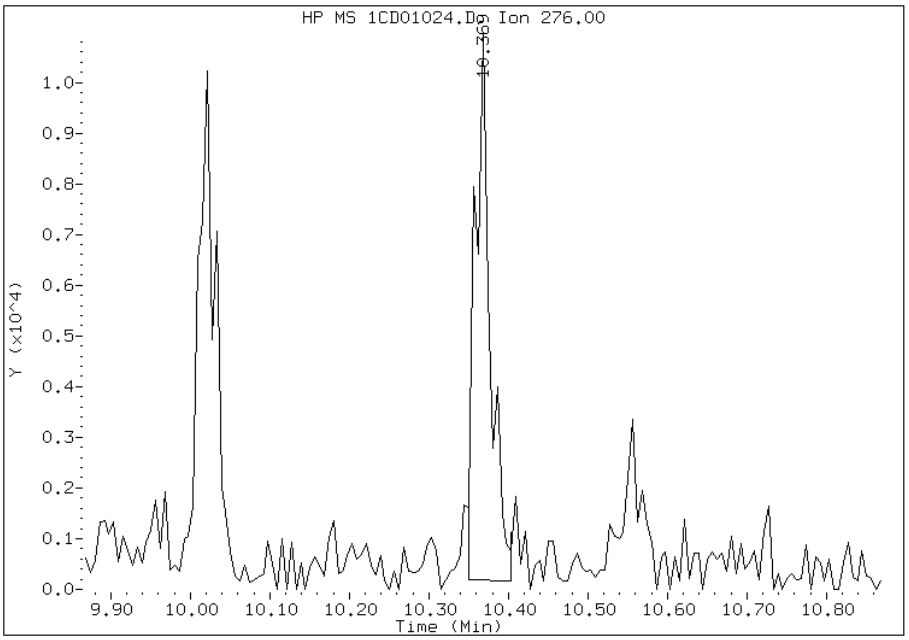
Processing Integration Results

RT: 10.37

Response: 14500

Amount: 1

Conc: 231



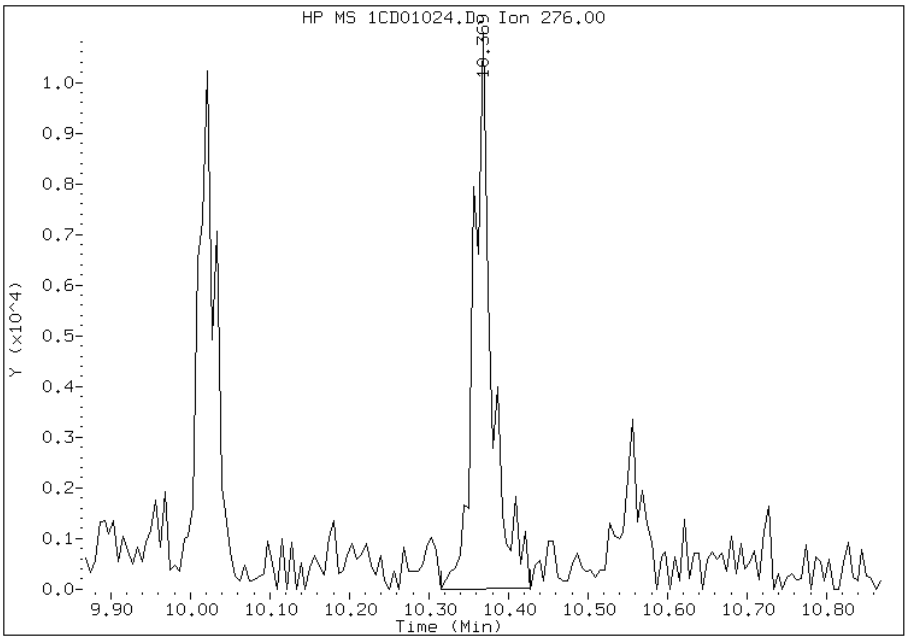
Manual Integration Results

RT: 10.37

Response: 17488

Amount: 1

Conc: 279



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 09:40
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01024.D
Inj. Date and Time: 01-APR-2013 18:13
Instrument ID: BSMC5973.i
Client ID: CV0197A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

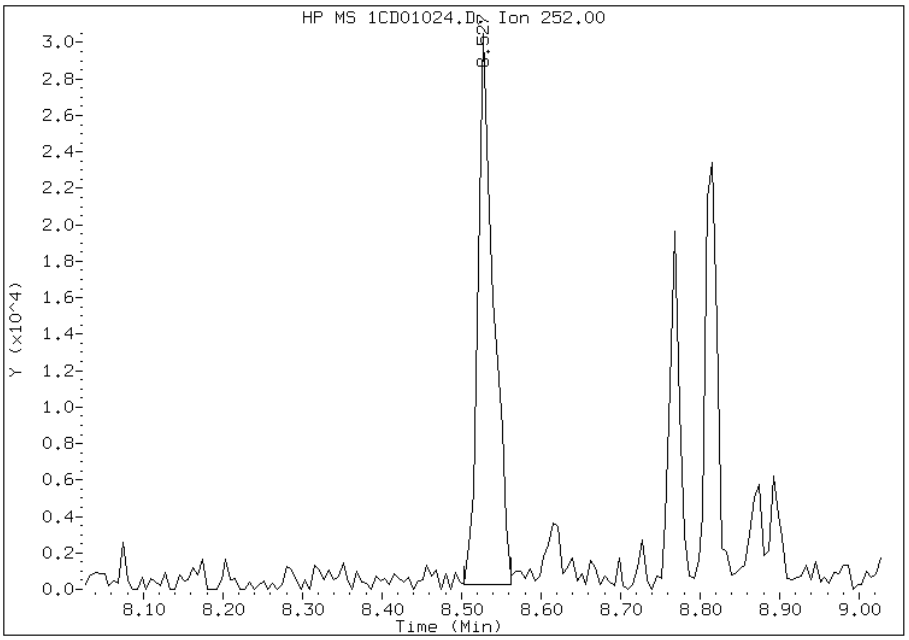
Processing Integration Results

RT: 8.53

Response: 41308

Amount: 2

Conc: 614



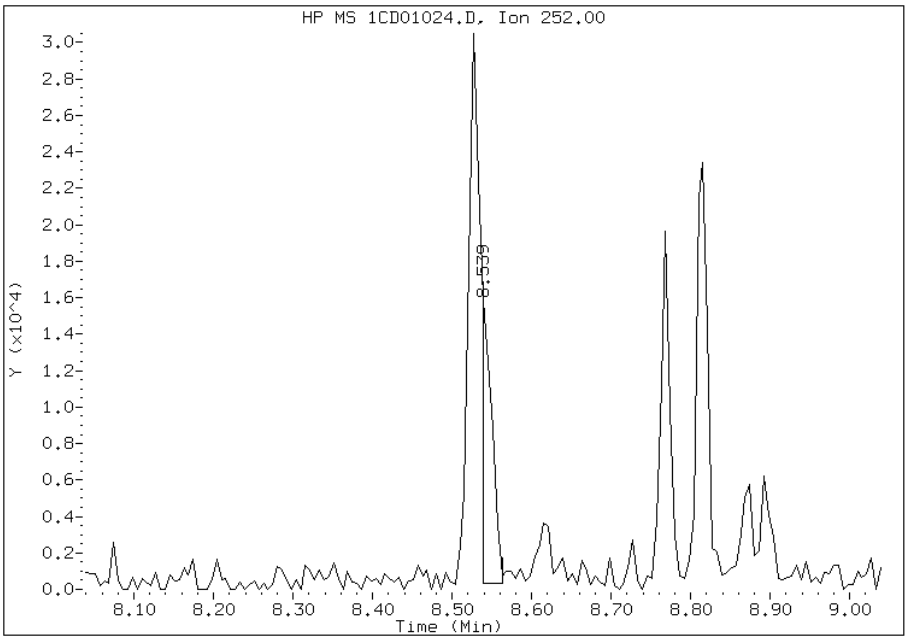
Manual Integration Results

RT: 8.54

Response: 14075

Amount: 1

Conc: 209



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 09:39
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01024.D
Inj. Date and Time: 01-APR-2013 18:13
Instrument ID: BSMC5973.i
Client ID: CV0197A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

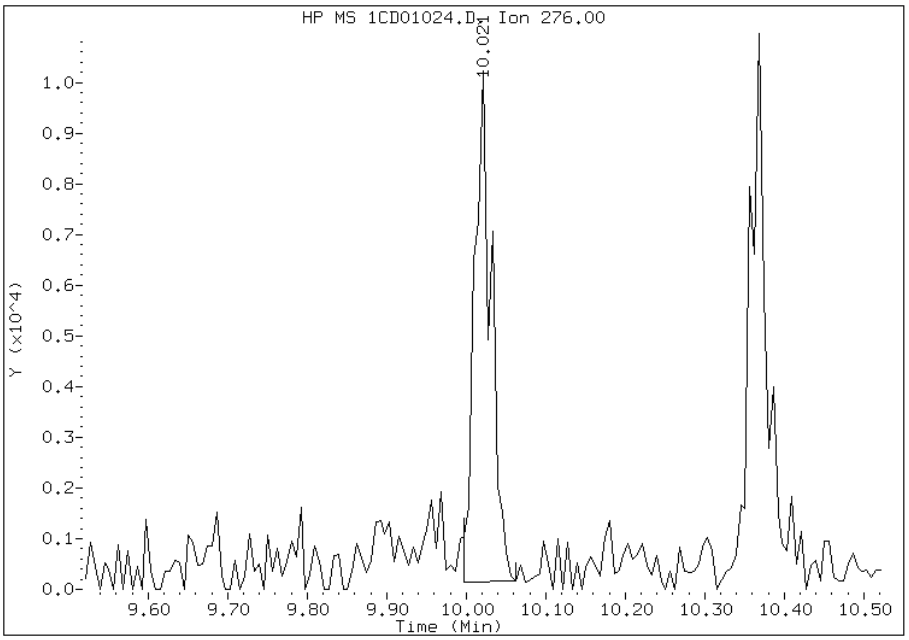
Processing Integration Results

RT: 10.02

Response: 14651

Amount: 1

Conc: 244



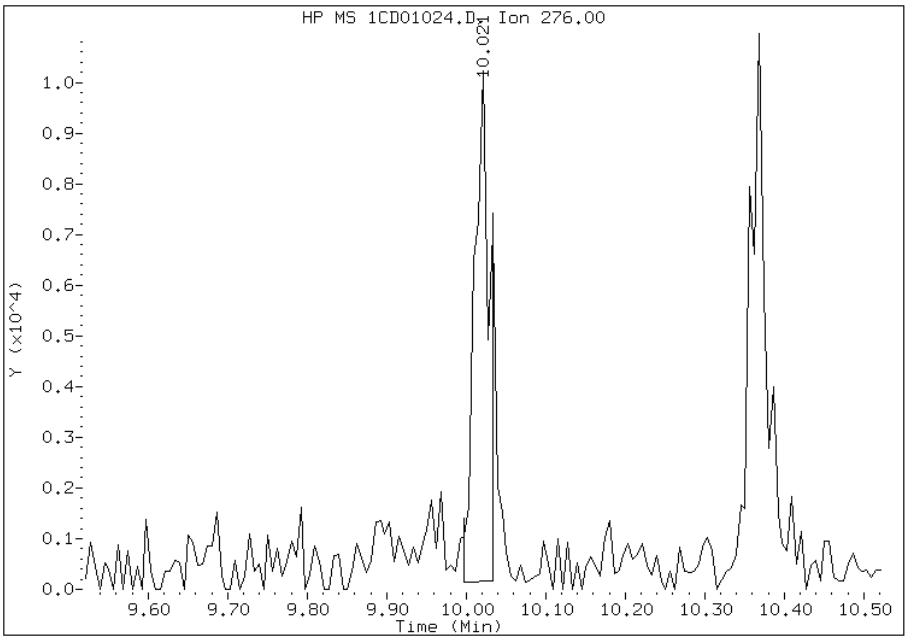
Manual Integration Results

RT: 10.02

Response: 13267

Amount: 1

Conc: 221



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 09:40
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: CV0197B-CS | Lab Sample ID: 680-88632-32

Matrix: Solid | Lab File ID: 1CD01025.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 13:45

Extract. Method: 3546 | Date Extracted: 03/27/2013 15:04

Sample wt/vol: 14.93(g) | Date Analyzed: 04/01/2013 18:31

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

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

% Moisture: 34.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135996 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	620	U	620	120
208-96-8	Acenaphthylene	96	J	250	31
120-12-7	Anthracene	110		52	26
56-55-3	Benzo[a]anthracene	550		49	24
50-32-8	Benzo[a]pyrene	570		64	32
205-99-2	Benzo[b]fluoranthene	870		75	38
191-24-2	Benzo[g,h,i]perylene	470		120	27
207-08-9	Benzo[k]fluoranthene	440		49	22
218-01-9	Chrysene	640		55	28
53-70-3	Dibenz(a,h)anthracene	130		120	25
206-44-0	Fluoranthene	1000		120	25
86-73-7	Fluorene	49	J	120	25
193-39-5	Indeno[1,2,3-cd]pyrene	330		120	44
90-12-0	1-Methylnaphthalene	120	J	250	27
91-57-6	2-Methylnaphthalene	190	J	250	44
91-20-3	Naphthalene	160	J	250	27
85-01-8	Phenanthrene	630		49	24
129-00-0	Pyrene	1000		120	23

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	87		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01025.D
Lab Smp Id: 680-88632-A-32-A Client Smp ID: CV0197B-CS
Inj Date : 01-APR-2013 18:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-32-a
Misc Info : 680-88632-A-32-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 25
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	14.930	Weight Extracted
M	34.681	% 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	3.716	3.716	(1.000)	748292	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	588855	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	1088202	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	35557	2.16415	887.6613
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1204460	40.0000	
* 23 Perylene-d12	264	8.874	8.886	(1.000)	1162440	40.0000	
2 Naphthalene	128	3.733	3.733	(1.005)	7769	0.39880	163.5748
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	6026	0.46373	190.2068
4 1-Methylnaphthalene	142	4.222	4.222	(1.136)	3489	0.29480	120.9187
5 Acenaphthylene	152	4.716	4.716	(0.982)	5568	0.23453	96.1975
9 Fluorene	166	5.145	5.145	(1.071)	2251	0.12062	49.4741
11 Phenanthrene	178	5.769	5.768	(1.003)	48207	1.53203	628.3886
12 Anthracene	178	5.804	5.804	(1.009)	8366	0.27186	111.5064
13 Carbazole	167	5.910	5.910	(1.028)	5728	0.20939	85.8850

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.604	6.604	(1.148)	85664	2.48596	1019.6579
16 Pyrene	202	6.774	6.774	(0.881)	81509	2.51819	1032.8745
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	46862	1.34804	552.9204
19 Chrysene	228	7.710	7.715	(1.002)	54688	1.57198	644.7744
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.961)	64337	2.11782	868.6578(M)
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.963)	33260	1.06726	437.7523(M)
22 Benzo(a)pyrene	252	8.815	8.827	(0.993)	41340	1.40098	574.6357
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.039	(1.129)	22266	0.80213	329.0072(M)
25 Dibenzo(a,h)anthracene	278	10.027	10.056	(1.130)	8276	0.30481	125.0208(M)
26 Benzo(g,h,i)perylene	276	10.368	10.386	(1.168)	33445	1.15178	472.4195

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD01025.D

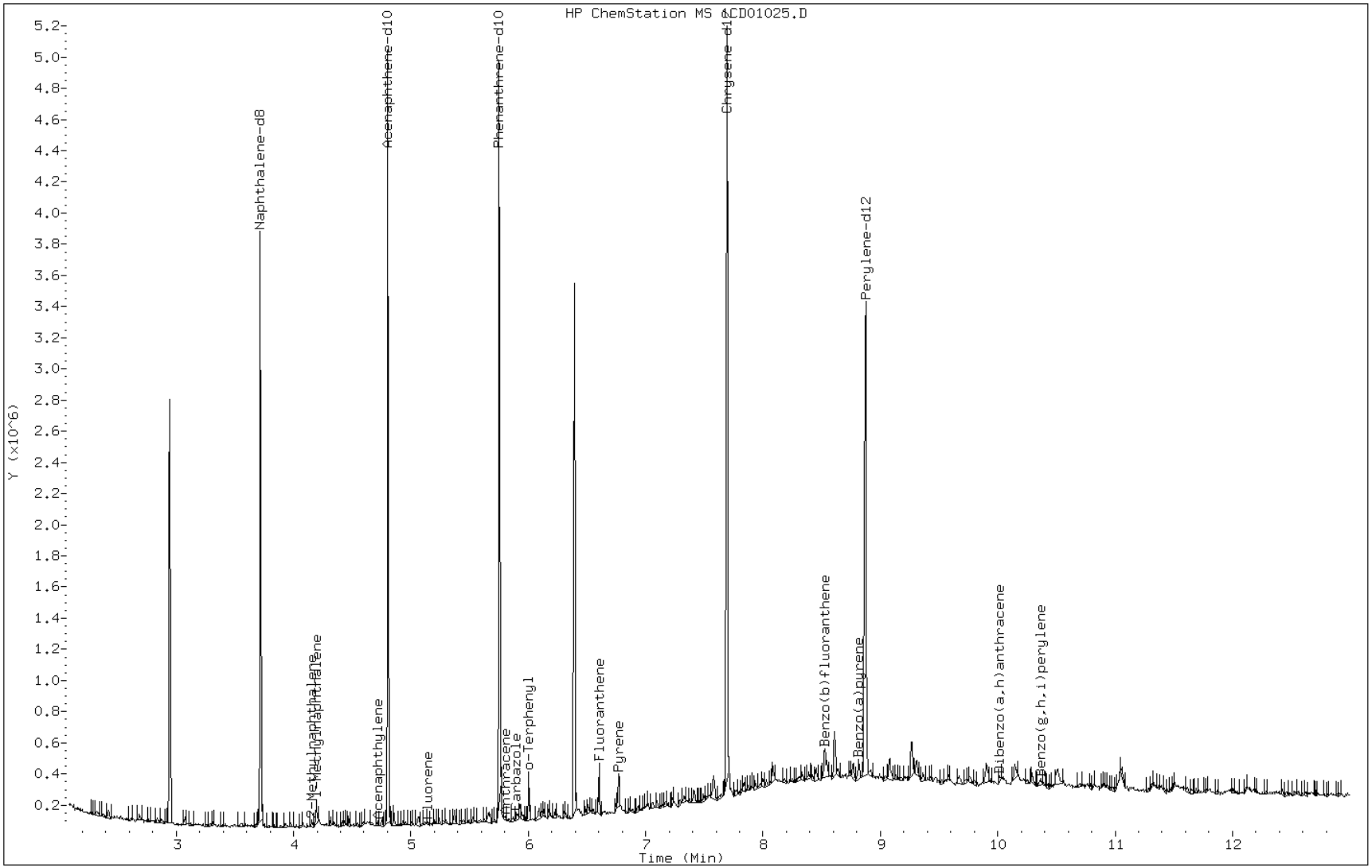
Date: 01-APR-2013 18:31

Client ID: CV0197B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a

Operator: SCC



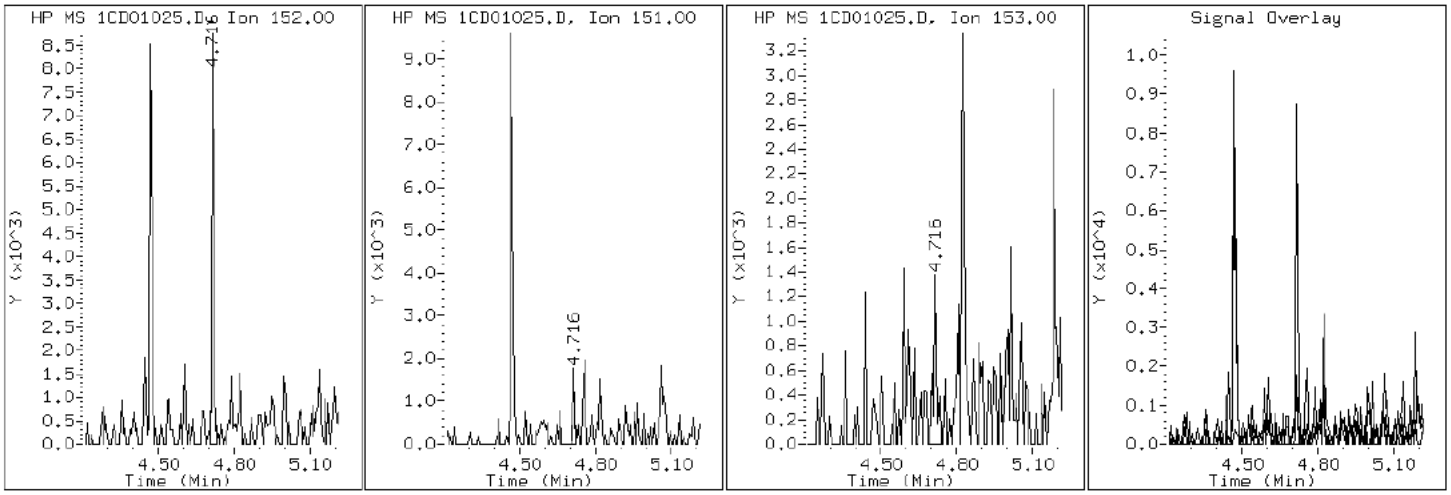
Data File: 1CD01025.D

Date: 01-APR-2013 18:31

Client ID: CV0197B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a Operator: SCC

5 Acenaphthylene



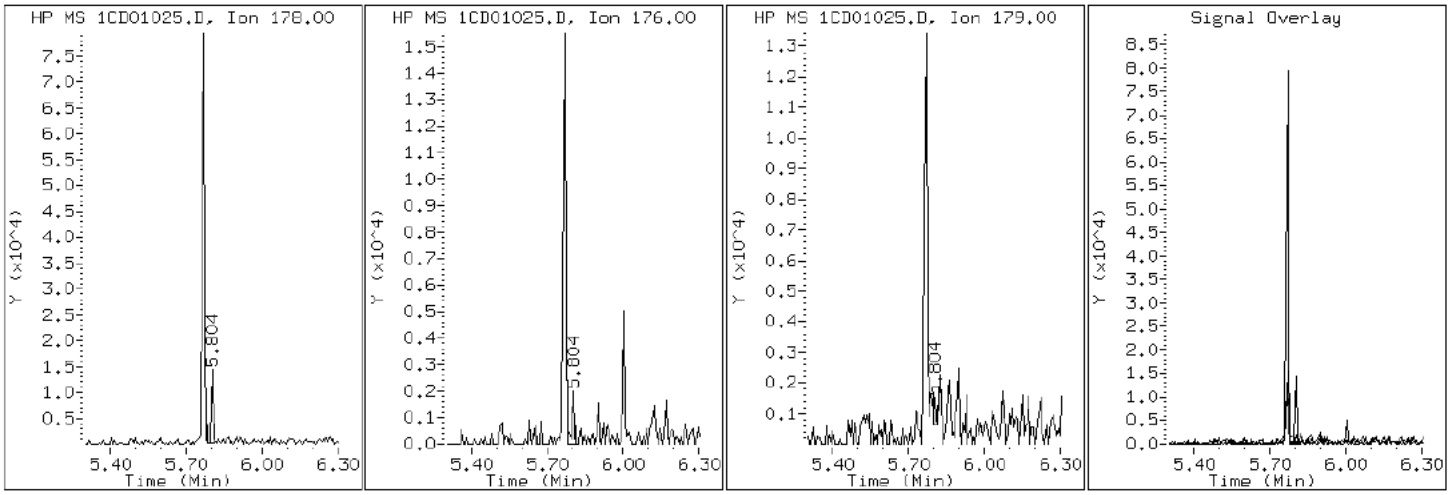
Data File: 1CD01025.D

Date: 01-APR-2013 18:31

Client ID: CV0197B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a Operator: SCC

12 Anthracene



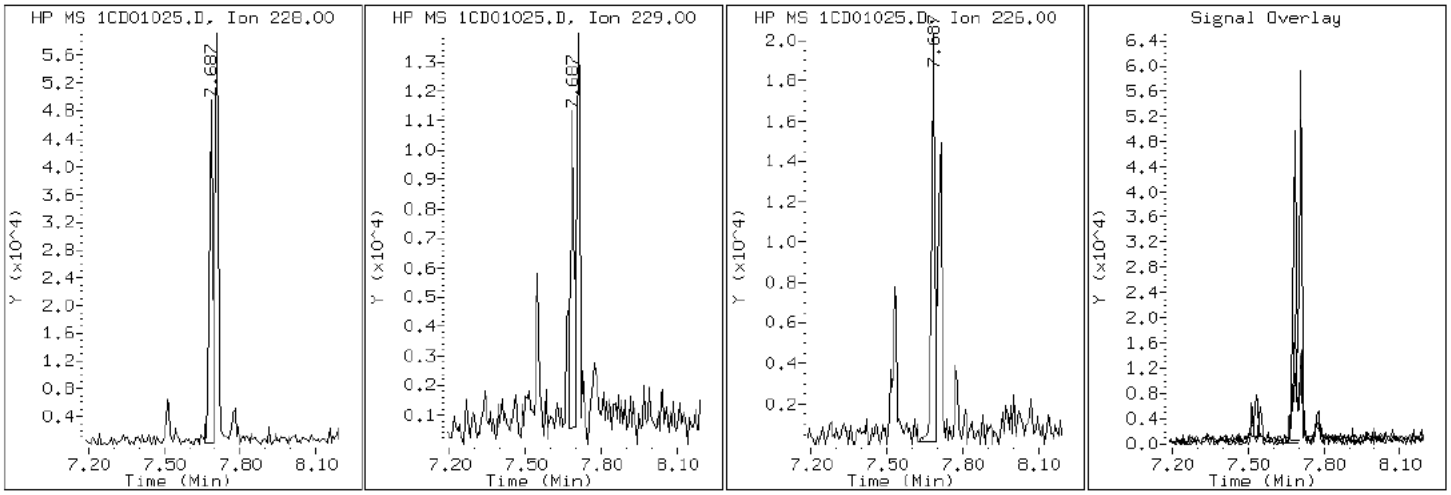
Data File: 1CD01025.D

Date: 01-APR-2013 18:31

Client ID: CV0197B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a Operator: SCC

17 Benzo(a)anthracene



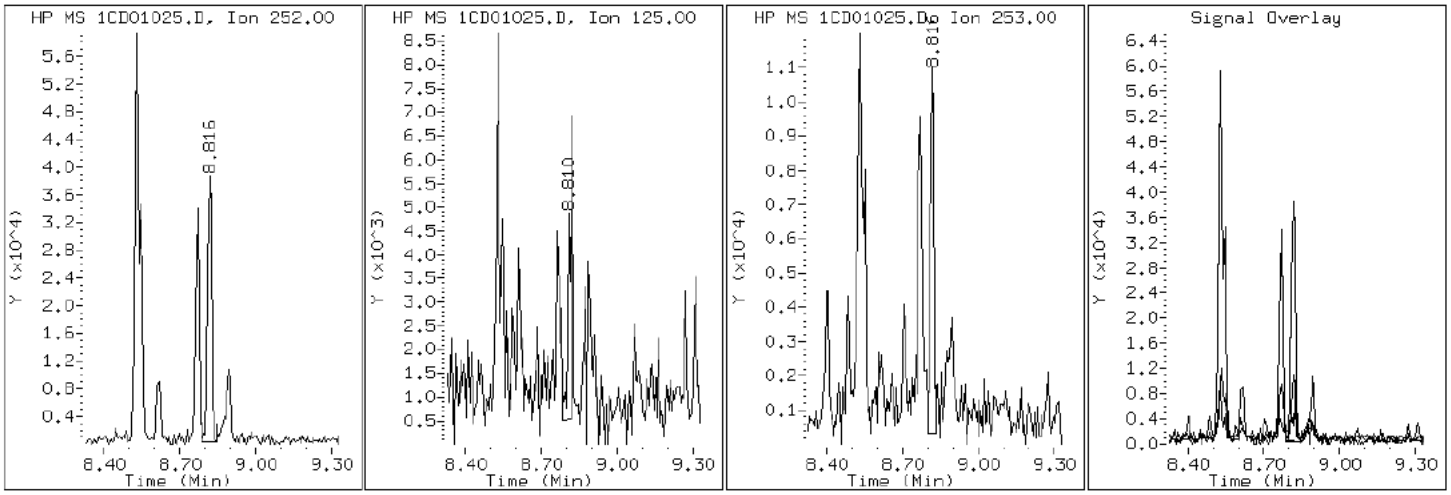
Data File: 1CD01025.D

Date: 01-APR-2013 18:31

Client ID: CV0197B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a Operator: SCC

22 Benzo(a)pyrene



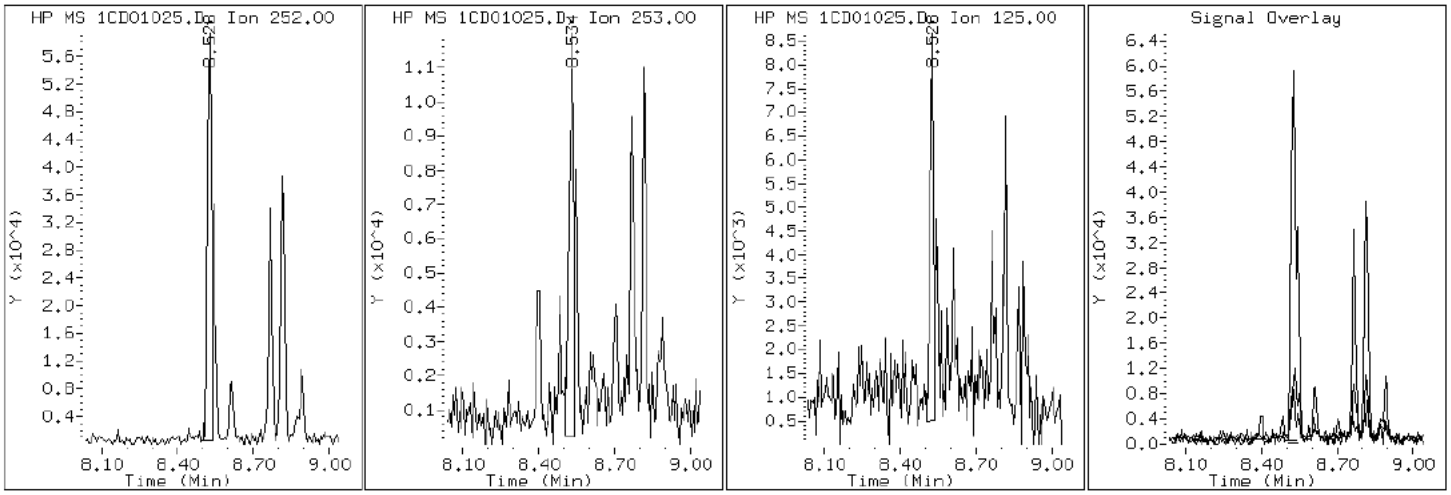
Data File: 1CD01025.D

Date: 01-APR-2013 18:31

Client ID: CV0197B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a Operator: SCC

20 Benzo(b)fluoranthene



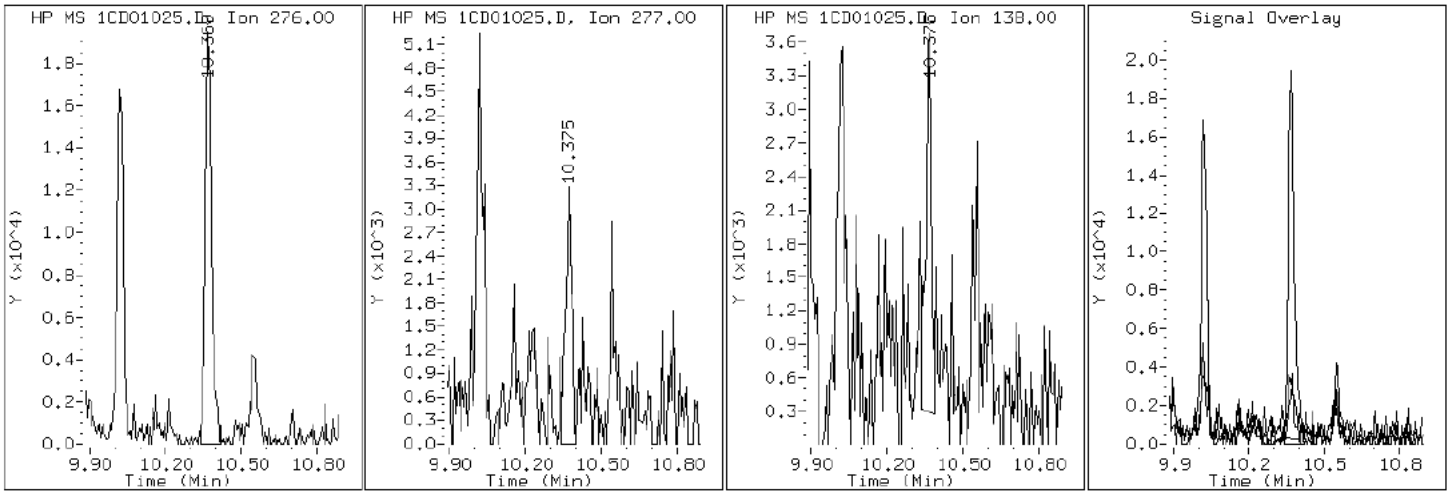
Data File: 1CD01025.D

Date: 01-APR-2013 18:31

Client ID: CV0197B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a Operator: SCC

26 Benzo(g,h,i)perylene



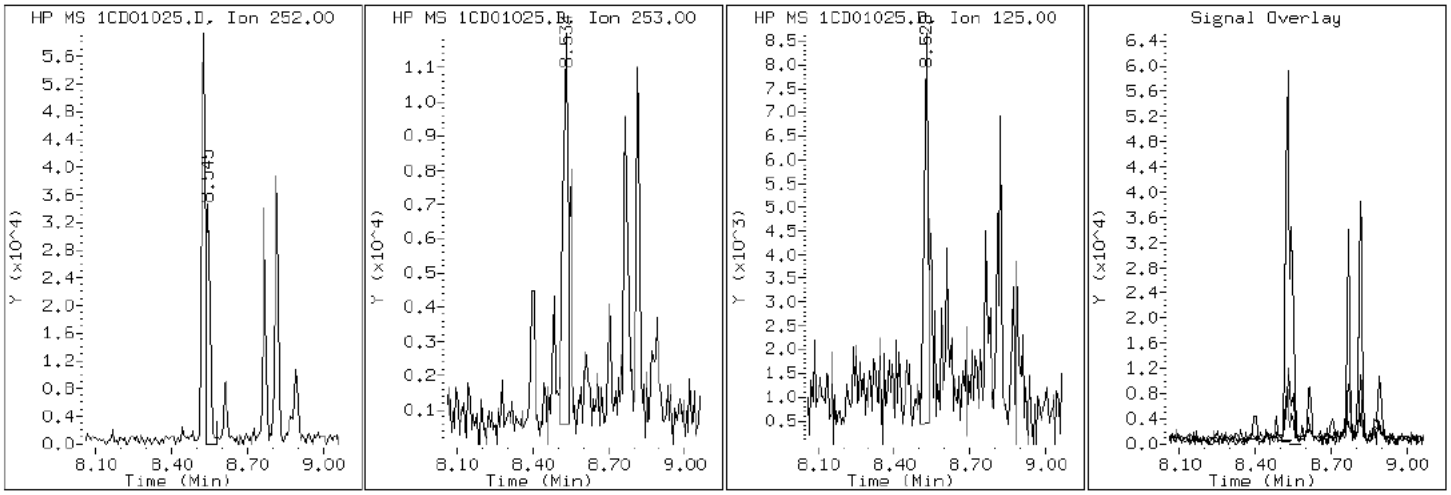
Data File: 1CD01025.D

Date: 01-APR-2013 18:31

Client ID: CV0197B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a Operator: SCC

21 Benzo(k)fluoranthene



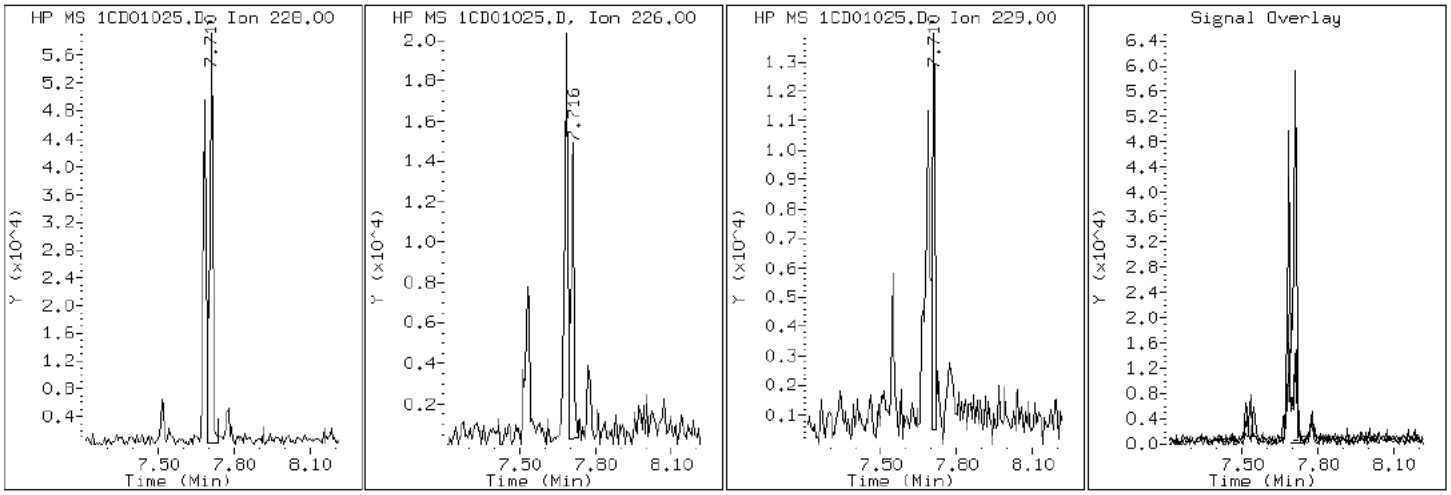
Data File: 1CD01025.D

Date: 01-APR-2013 18:31

Client ID: CV0197B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a Operator: SCC

19 Chrysene



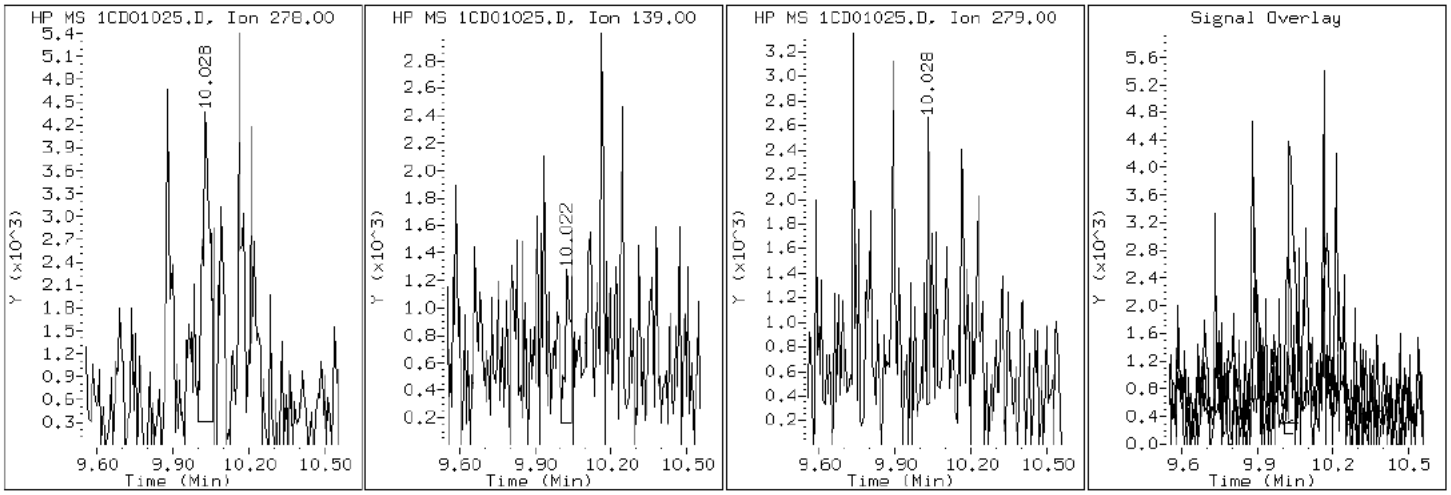
Data File: 1CD01025.D

Date: 01-APR-2013 18:31

Client ID: CV0197B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a Operator: SCC

25 Dibenzo(a,h)anthracene



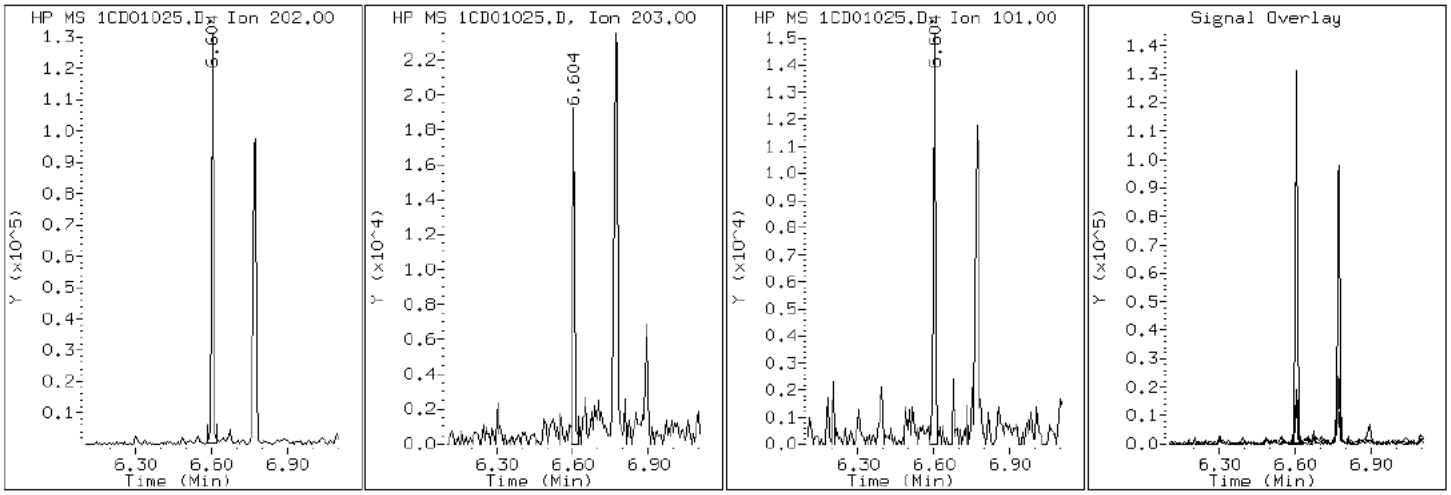
Data File: 1CD01025.D

Date: 01-APR-2013 18:31

Client ID: CV0197B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a Operator: SCC

15 Fluoranthene



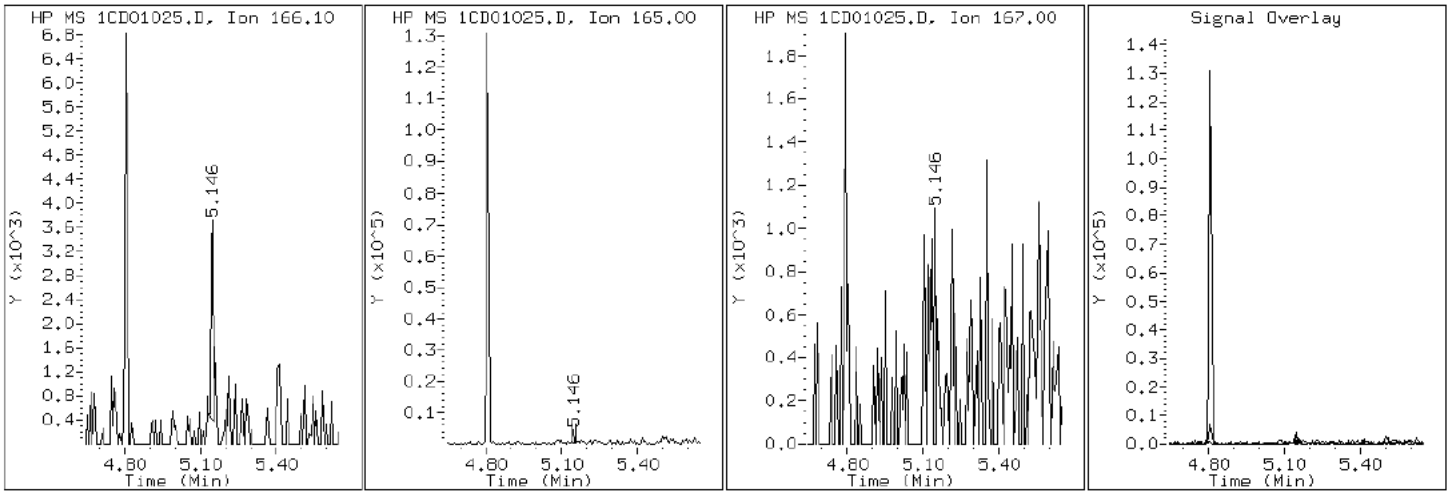
Data File: 1CD01025.D

Date: 01-APR-2013 18:31

Client ID: CV0197B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a Operator: SCC

9 Fluorene



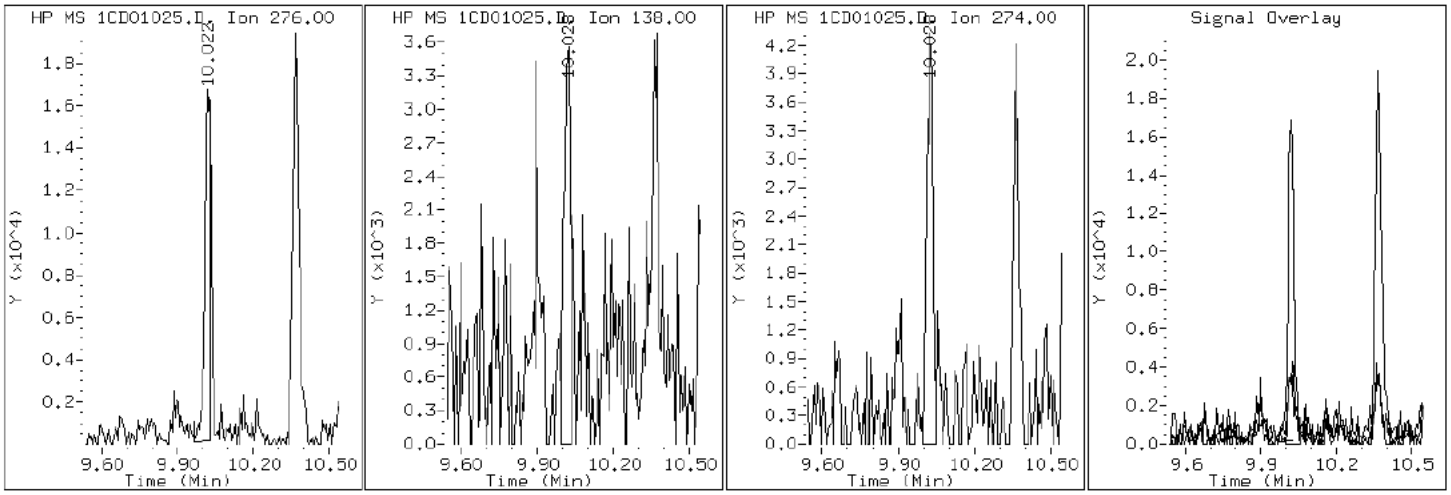
Data File: 1CD01025.D

Date: 01-APR-2013 18:31

Client ID: CV0197B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a Operator: SCC

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



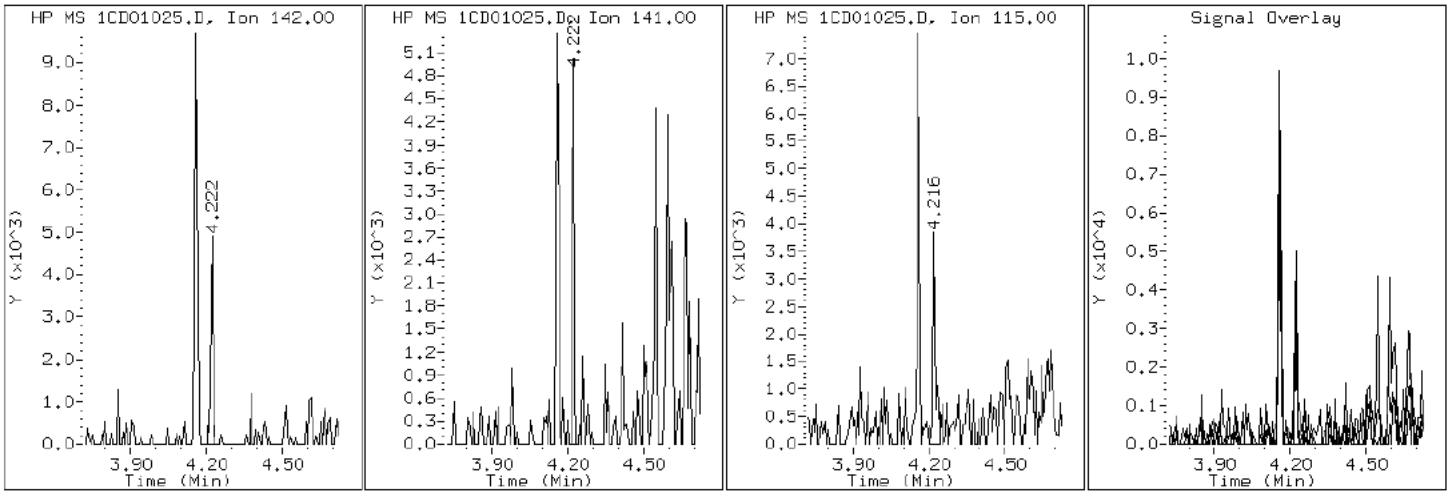
Data File: 1CD01025.D

Date: 01-APR-2013 18:31

Client ID: CV0197B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a Operator: SCC

4 1-Methylnaphthalene



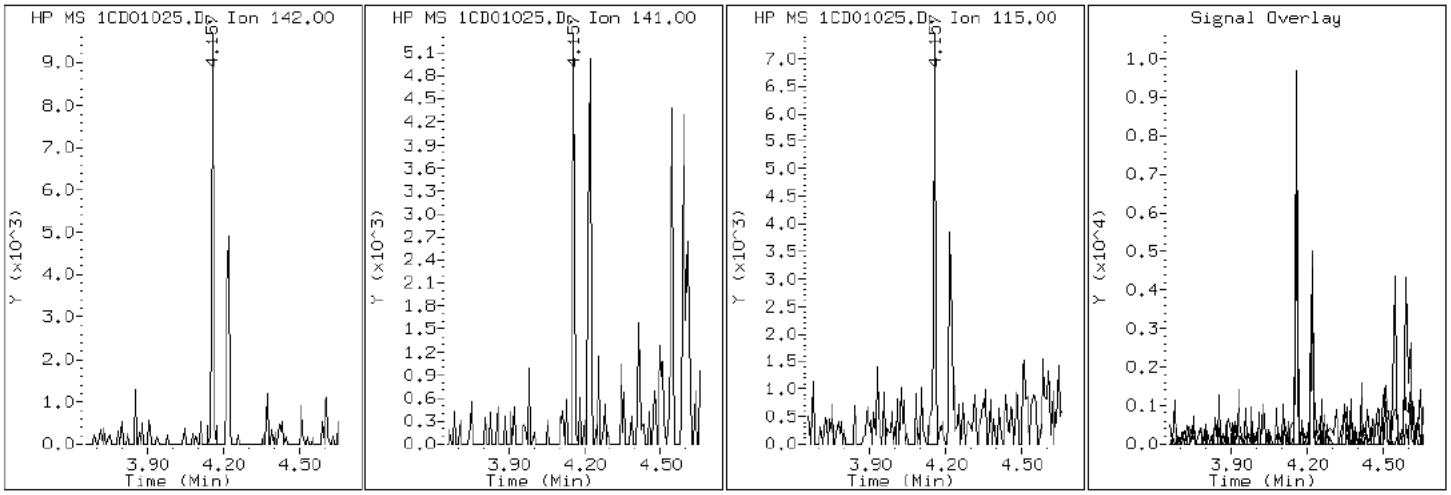
Data File: 1CD01025.D

Date: 01-APR-2013 18:31

Client ID: CV0197B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a Operator: SCC

3 2-Methylnaphthalene



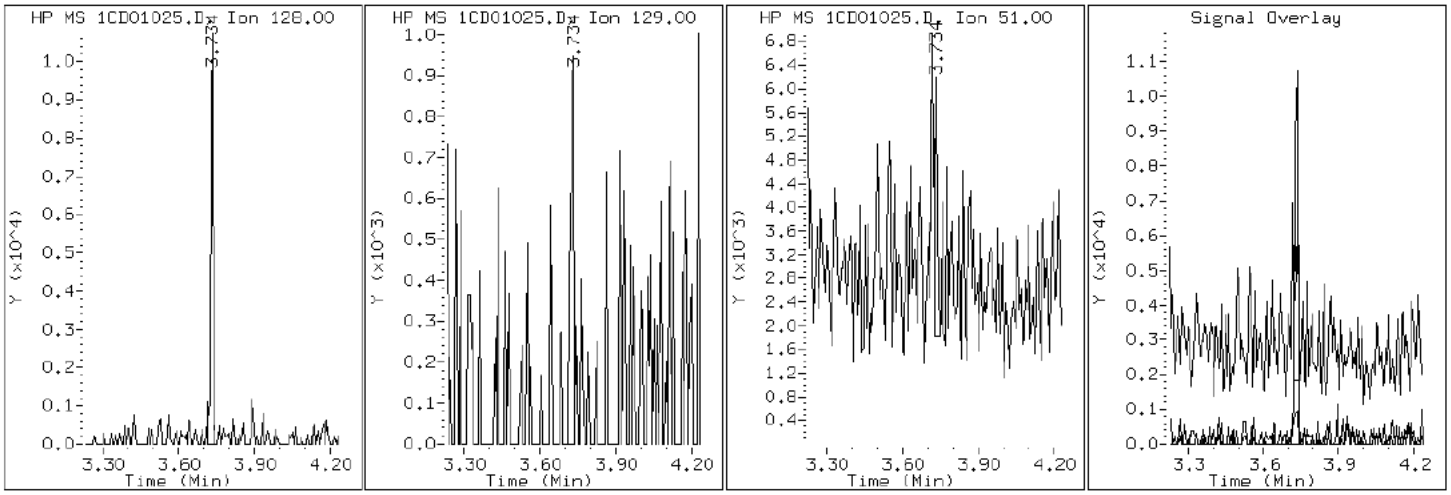
Data File: 1CD01025.D

Date: 01-APR-2013 18:31

Client ID: CV0197B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a Operator: SCC

2 Naphthalene



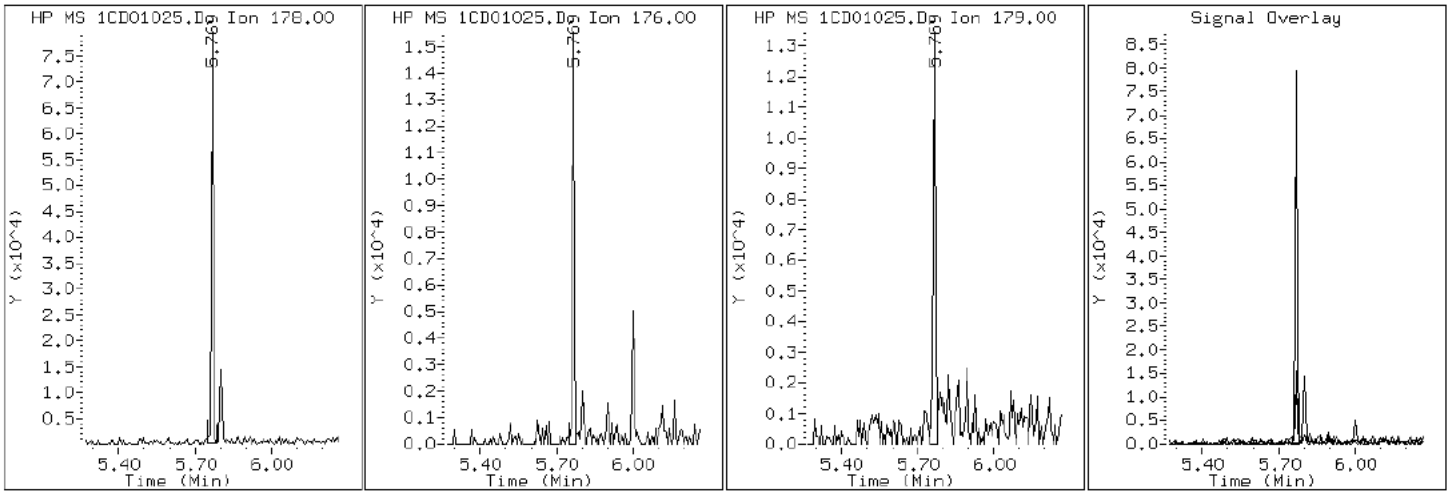
Data File: 1CD01025.D

Date: 01-APR-2013 18:31

Client ID: CV0197B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a Operator: SCC

11 Phenanthrene



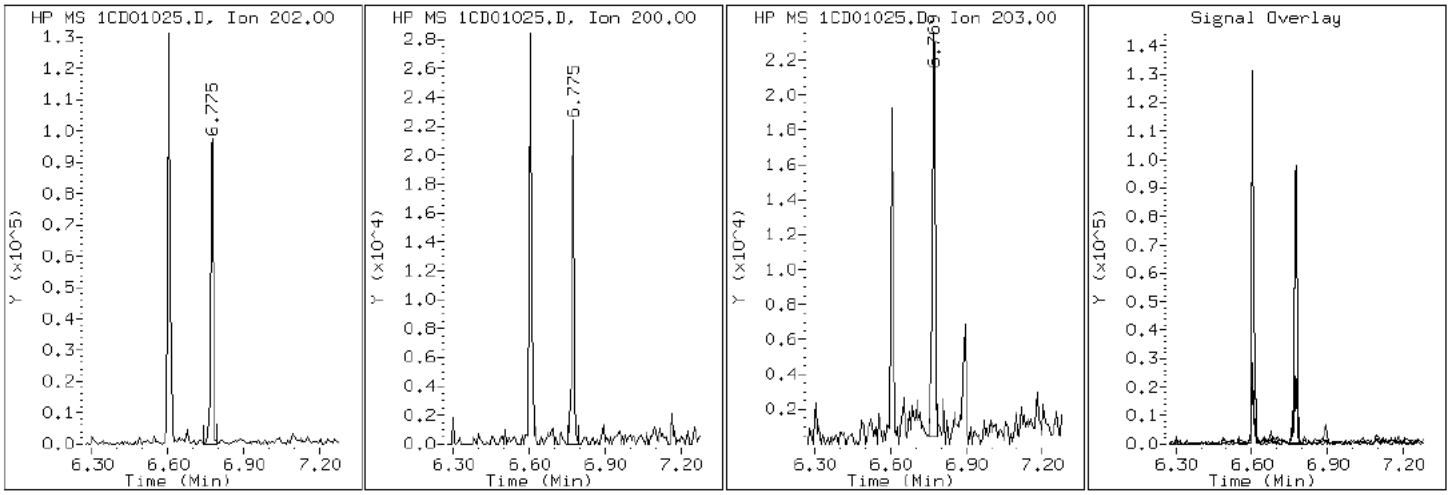
Data File: 1CD01025.D

Date: 01-APR-2013 18:31

Client ID: CV0197B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-32-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD01025.D
Inj. Date and Time: 01-APR-2013 18:31
Instrument ID: BSMC5973.i
Client ID: CV0197B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

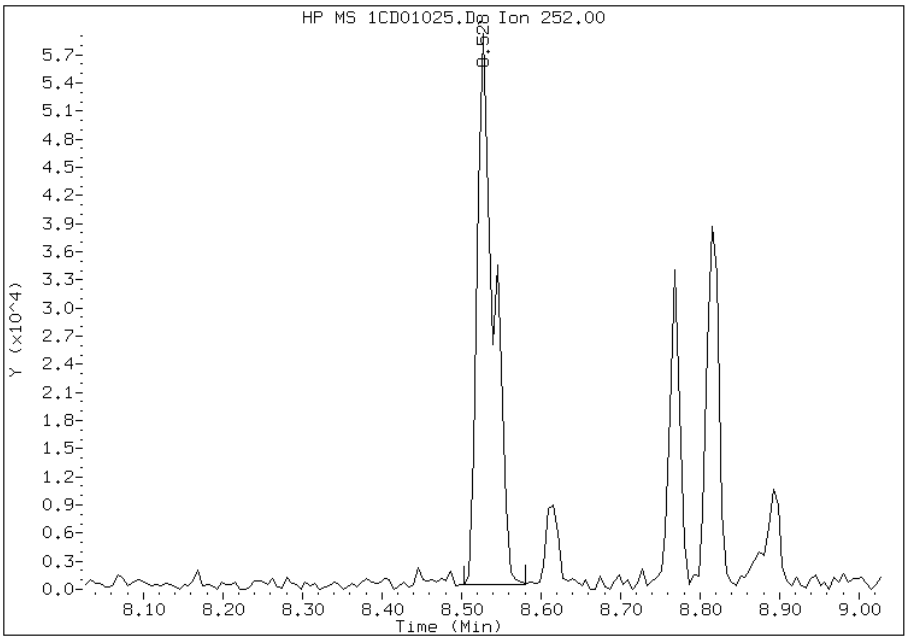
Processing Integration Results

RT: 8.53

Response: 86839

Amount: 3

Conc: 1172



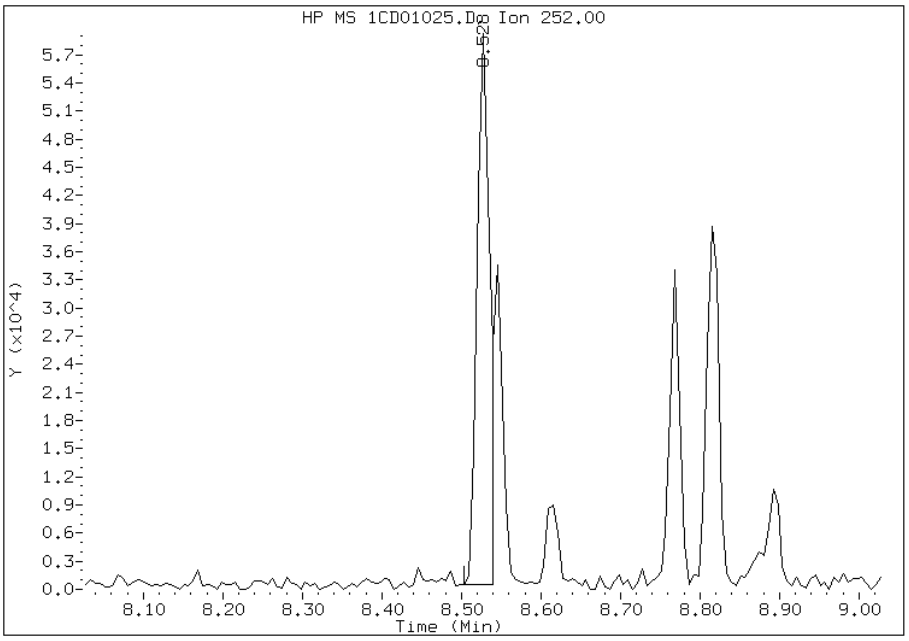
Manual Integration Results

RT: 8.53

Response: 64337

Amount: 2

Conc: 869



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 09:41
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD01025.D
Inj. Date and Time: 01-APR-2013 18:31
Instrument ID: BSMC5973.i
Client ID: CV0197B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

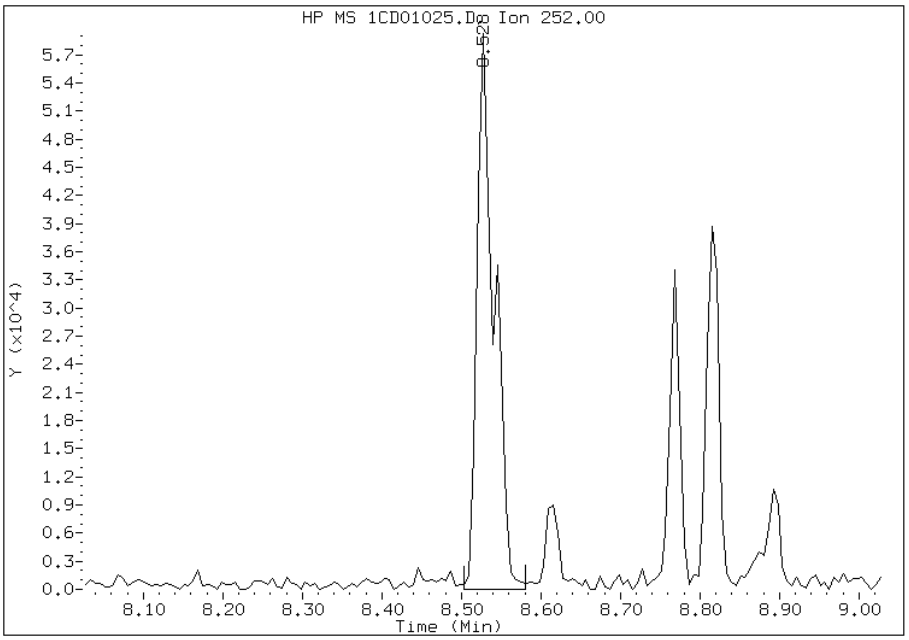
Processing Integration Results

RT: 8.53

Response: 89406

Amount: 3

Conc: 1177



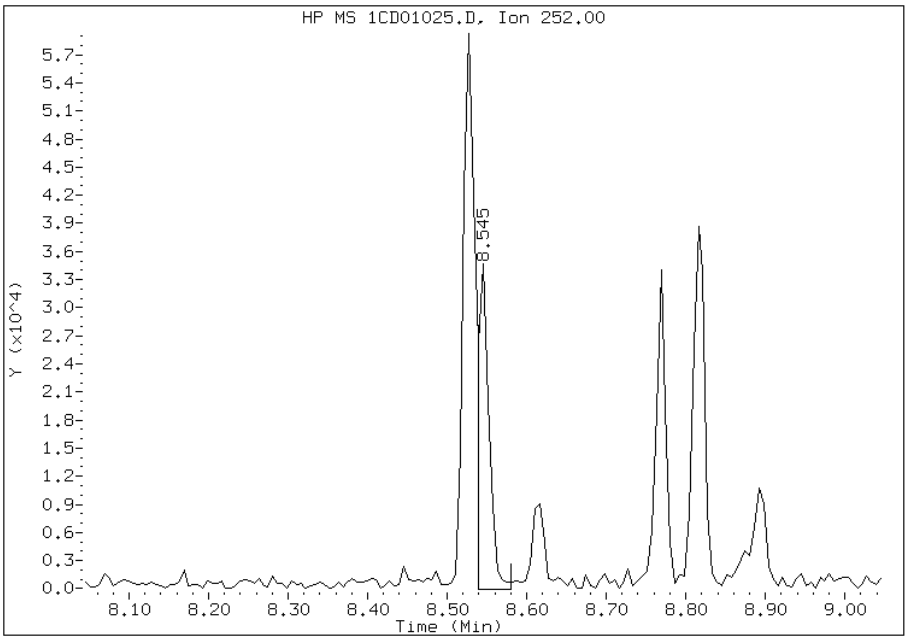
Manual Integration Results

RT: 8.55

Response: 33260

Amount: 1

Conc: 438



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 09:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01025.D
Inj. Date and Time: 01-APR-2013 18:31
Instrument ID: BSMC5973.i
Client ID: CV0197B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/03/2013

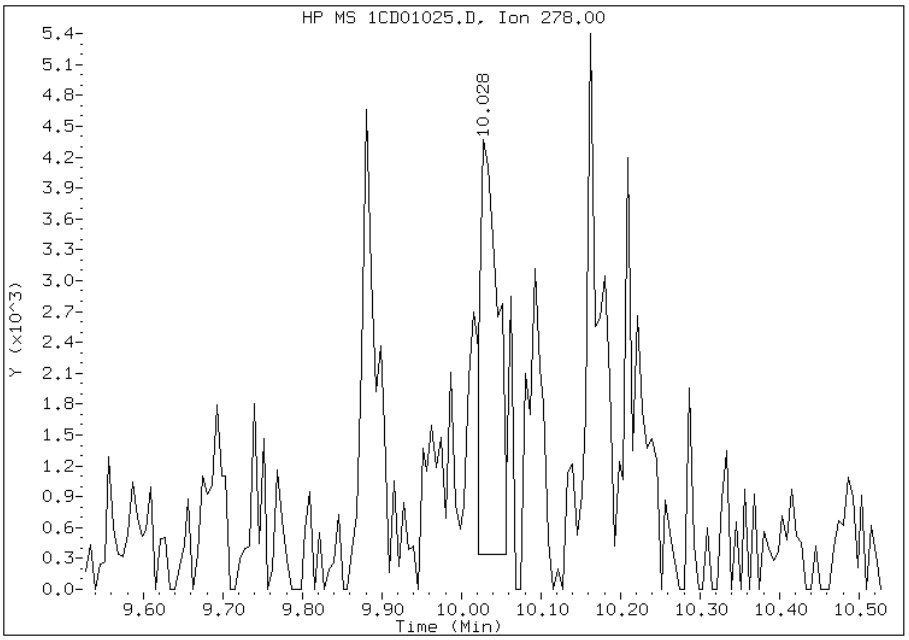
Processing Integration Results

RT: 10.03

Response: 6443

Amount: 0

Conc: 97



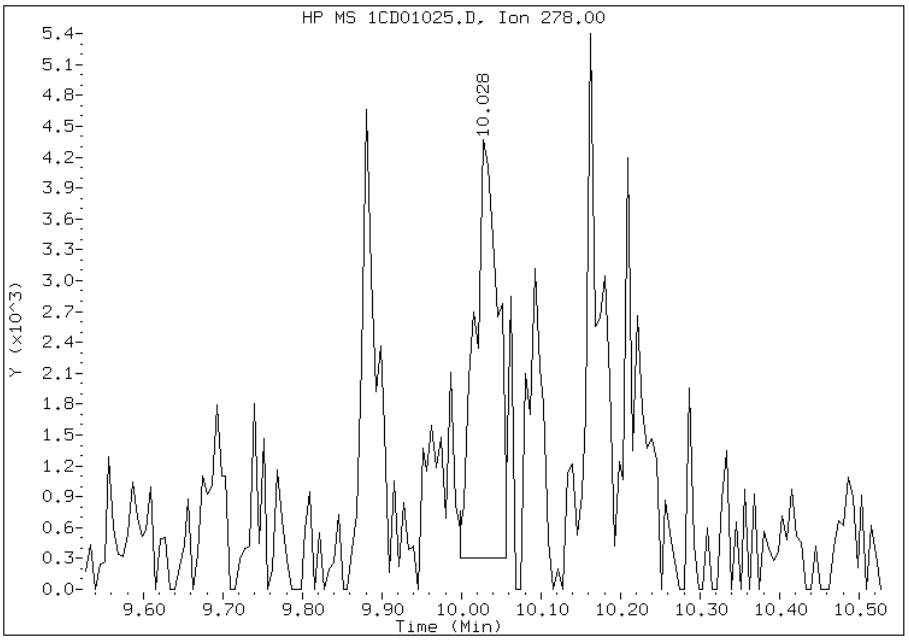
Manual Integration Results

RT: 10.03

Response: 8276

Amount: 0

Conc: 125



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 09:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01025.D
Inj. Date and Time: 01-APR-2013 18:31
Instrument ID: BSMC5973.i
Client ID: CV0197B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

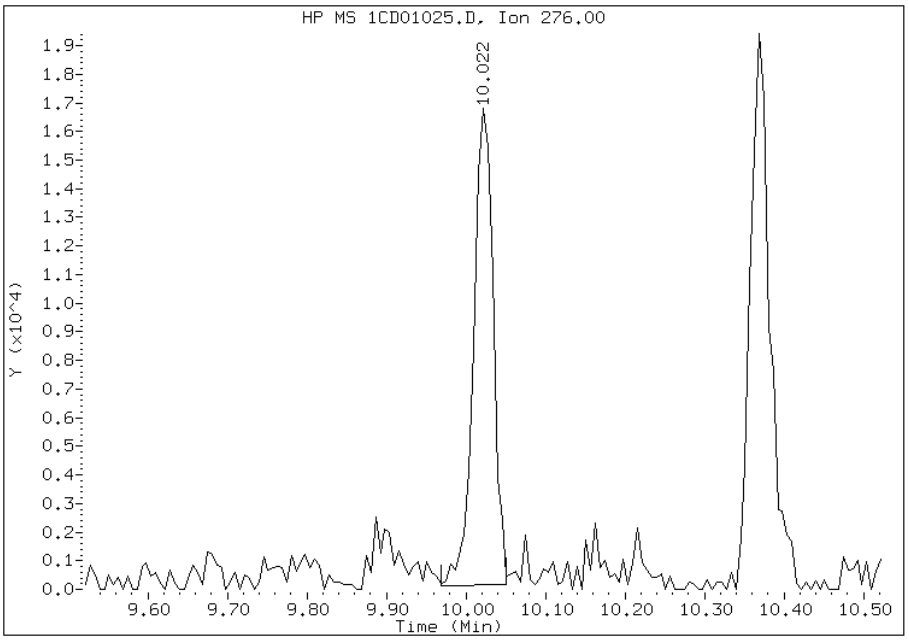
Processing Integration Results

RT: 10.02

Response: 28327

Amount: 1

Conc: 419



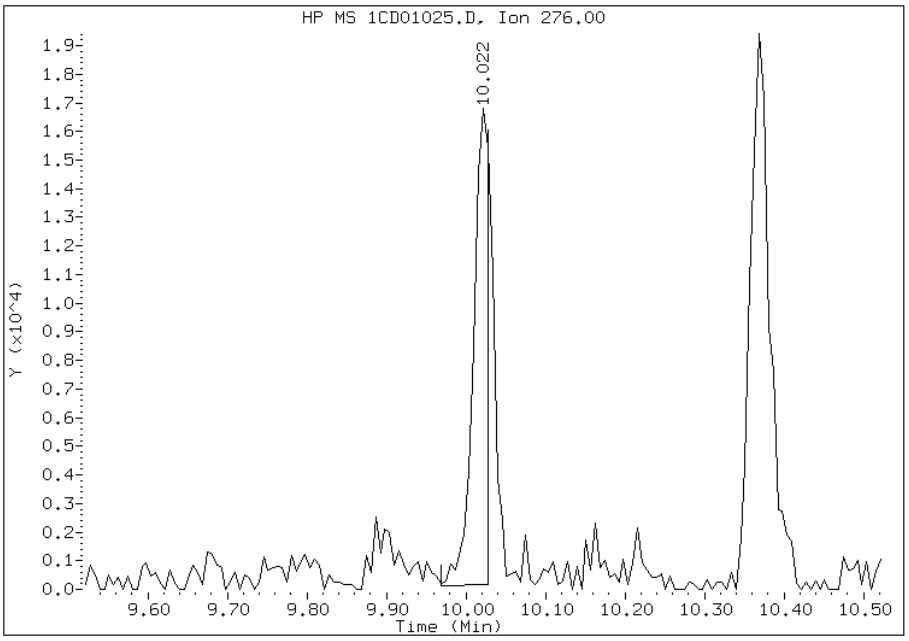
Manual Integration Results

RT: 10.02

Response: 22266

Amount: 1

Conc: 329



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 09:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: CV0197B-CSD | Lab Sample ID: 680-88632-33

Matrix: Solid | Lab File ID: 1CD01026.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 13:45

Extract. Method: 3546 | Date Extracted: 03/27/2013 15:04

Sample wt/vol: 15.08(g) | Date Analyzed: 04/01/2013 18:50

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

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

% Moisture: 33.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135996 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	600	U	600	120
208-96-8	Acenaphthylene	130	J	240	30
120-12-7	Anthracene	200		51	25
56-55-3	Benzo[a]anthracene	820		48	23
50-32-8	Benzo[a]pyrene	650		63	31
205-99-2	Benzo[b]fluoranthene	1000		73	37
191-24-2	Benzo[g,h,i]perylene	420		120	26
207-08-9	Benzo[k]fluoranthene	420		48	22
218-01-9	Chrysene	720		54	27
53-70-3	Dibenz(a,h)anthracene	130		120	25
206-44-0	Fluoranthene	1700		120	24
86-73-7	Fluorene	63	J	120	25
193-39-5	Indeno[1,2,3-cd]pyrene	270		120	43
90-12-0	1-Methylnaphthalene	100	J	240	26
91-57-6	2-Methylnaphthalene	180	J	240	43
91-20-3	Naphthalene	120	J	240	26
85-01-8	Phenanthrene	820		48	23
129-00-0	Pyrene	1500		120	22

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01026.D
Lab Smp Id: 680-88632-A-33-A Client Smp ID: CV0197B-CSD
Inj Date : 01-APR-2013 18:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-33-a
Misc Info : 680-88632-A-33-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 26
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	33.906	% 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	3.716	3.716	(1.000)	723819	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	572736	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	995357	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	25200	1.67685	672.9574
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1112240	40.0000	
* 23 Perylene-d12	264	8.868	8.886	(1.000)	1078201	40.0000	(H)
2 Naphthalene	128	3.733	3.733	(1.005)	5812	0.30843	123.7805(Q)
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	5723	0.45530	182.7241
4 1-Methylnaphthalene	142	4.216	4.222	(1.135)	2883	0.25184	101.0677
5 Acenaphthylene	152	4.716	4.716	(0.982)	7256	0.31424	126.1101
9 Fluorene	166	5.145	5.145	(1.071)	2844	0.15668	62.8811
11 Phenanthrene	178	5.768	5.768	(1.003)	58501	2.03260	815.7297
12 Anthracene	178	5.804	5.804	(1.009)	14195	0.50430	202.3868
13 Carbazole	167	5.910	5.910	(1.028)	5756	0.23004	92.3209

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.604	6.604	(1.148)	131606	4.17545	1675.7015
16 Pyrene	202	6.774	6.774	(0.881)	110825	3.70778	1488.0167
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	65560	2.04228	819.6130
19 Chrysene	228	7.710	7.715	(1.002)	57692	1.79583	720.7081
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.962)	72500	2.57298	1032.5971(MH)
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.964)	30206	1.04499	419.3768(QMH)
22 Benzo(a)pyrene	252	8.815	8.827	(0.994)	44472	1.62488	652.0994
24 Indeno(1,2,3-cd)pyrene	276	10.015	10.039	(1.129)	17150	0.66610	267.3206(MH)
25 Dibenzo(a,h)anthracene	278	10.021	10.056	(1.130)	8104	0.32179	129.1416(MH)
26 Benzo(g,h,i)perylene	276	10.362	10.386	(1.168)	28359	1.05293	422.5641(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: 1CD01026.D

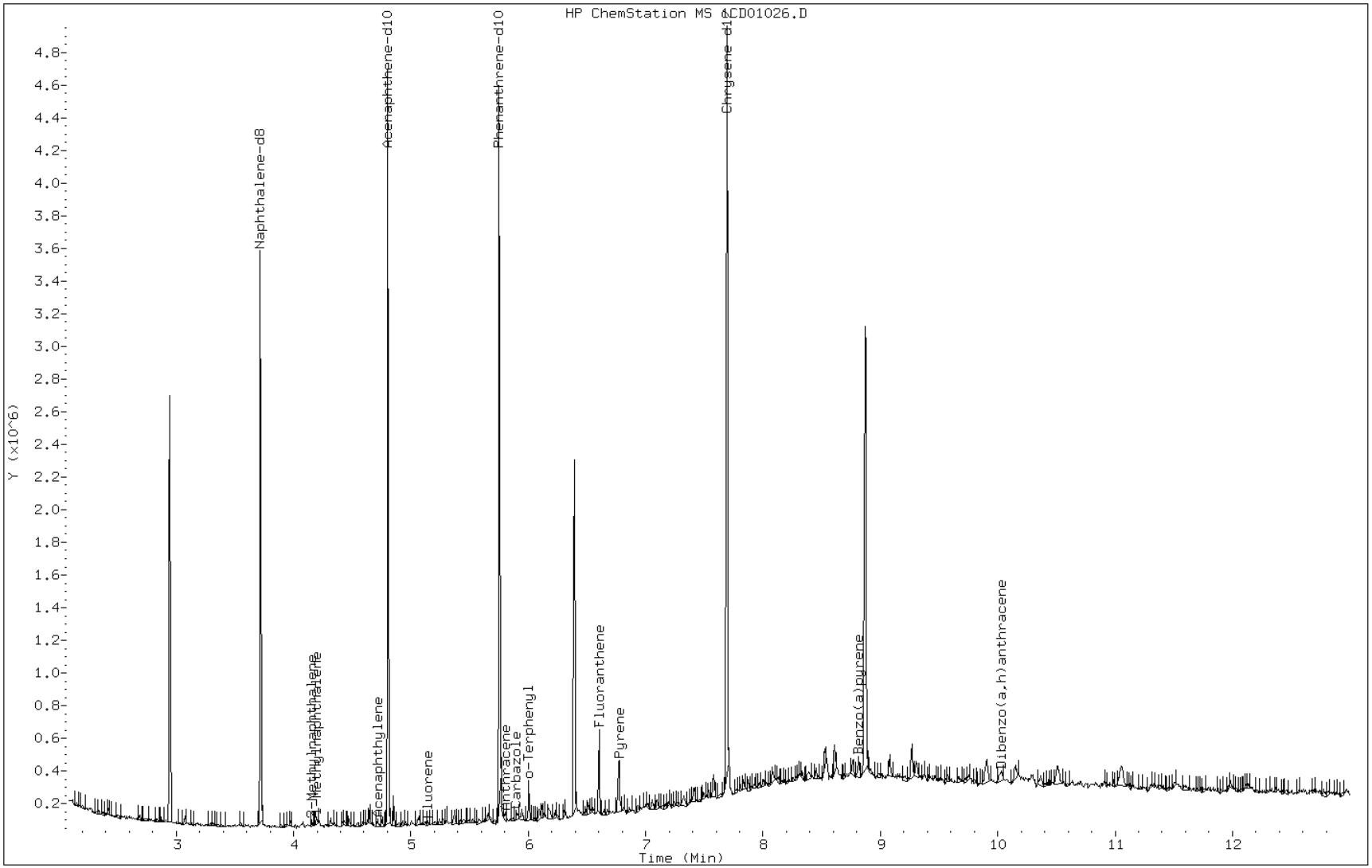
Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a

Operator: SCC



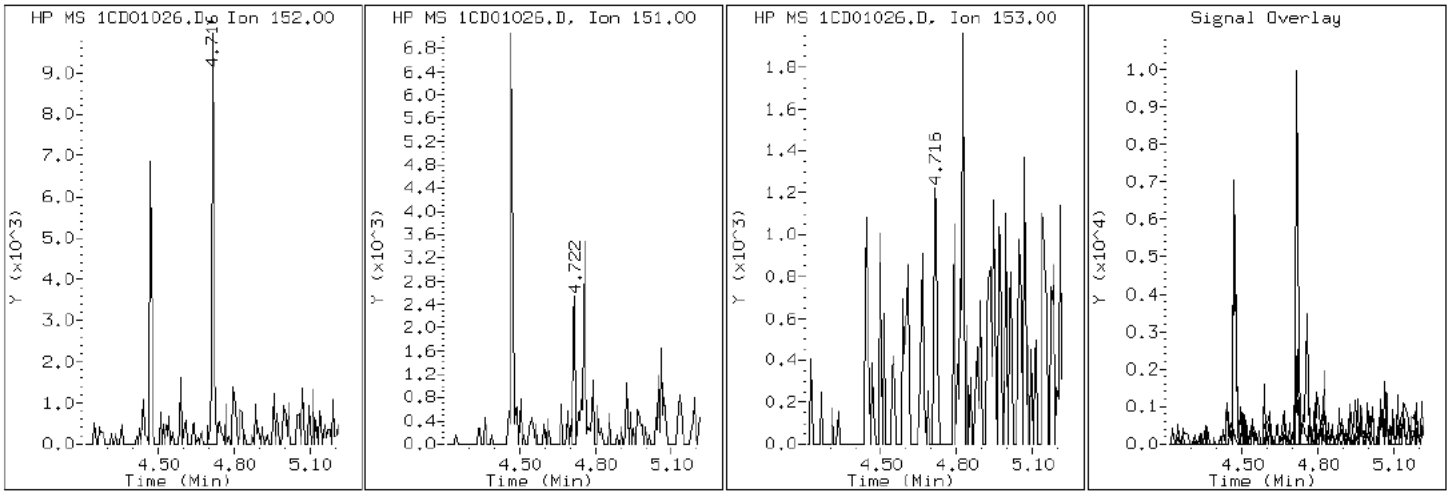
Data File: 1CD01026.D

Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a Operator: SCC

5 Acenaphthylene



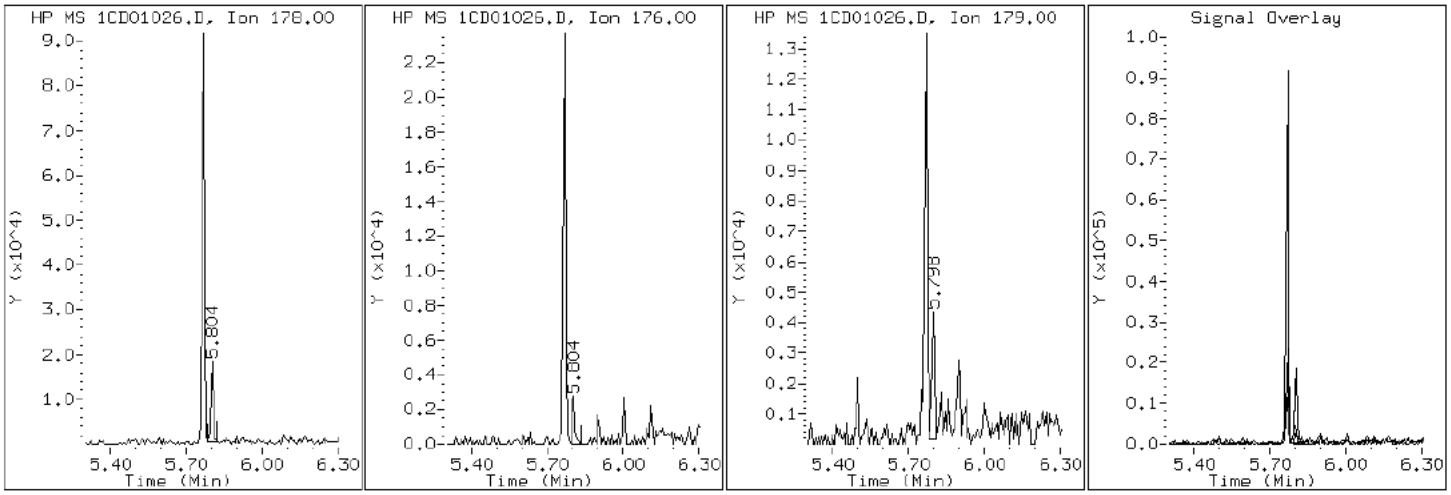
Data File: 1CD01026.D

Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a Operator: SCC

12 Anthracene



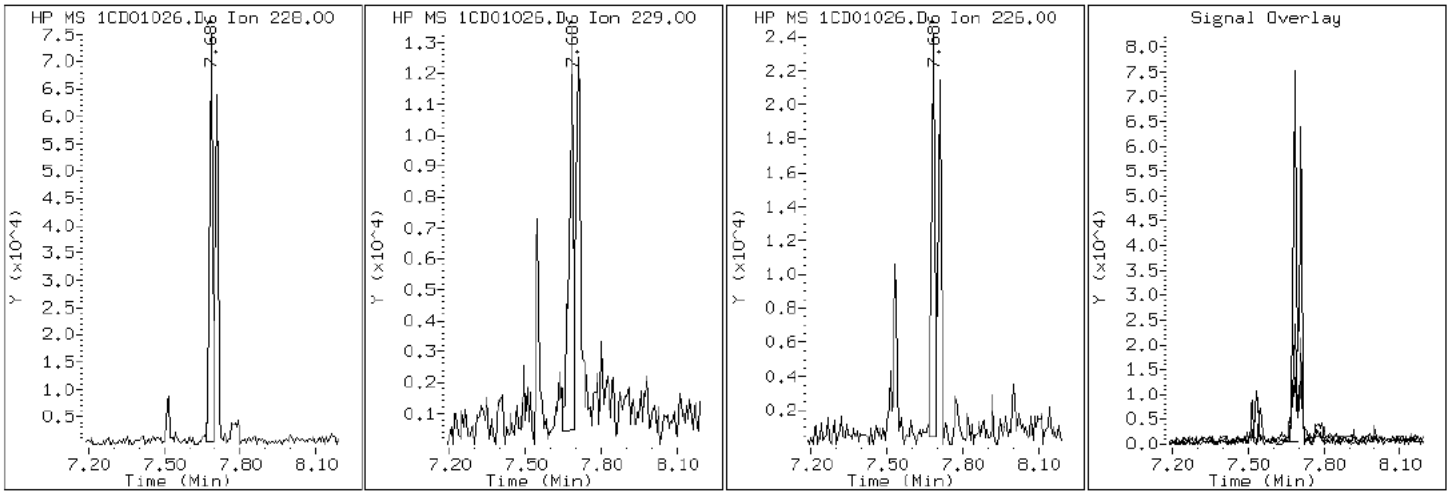
Data File: 1CD01026.D

Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a Operator: SCC

17 Benzo(a)anthracene



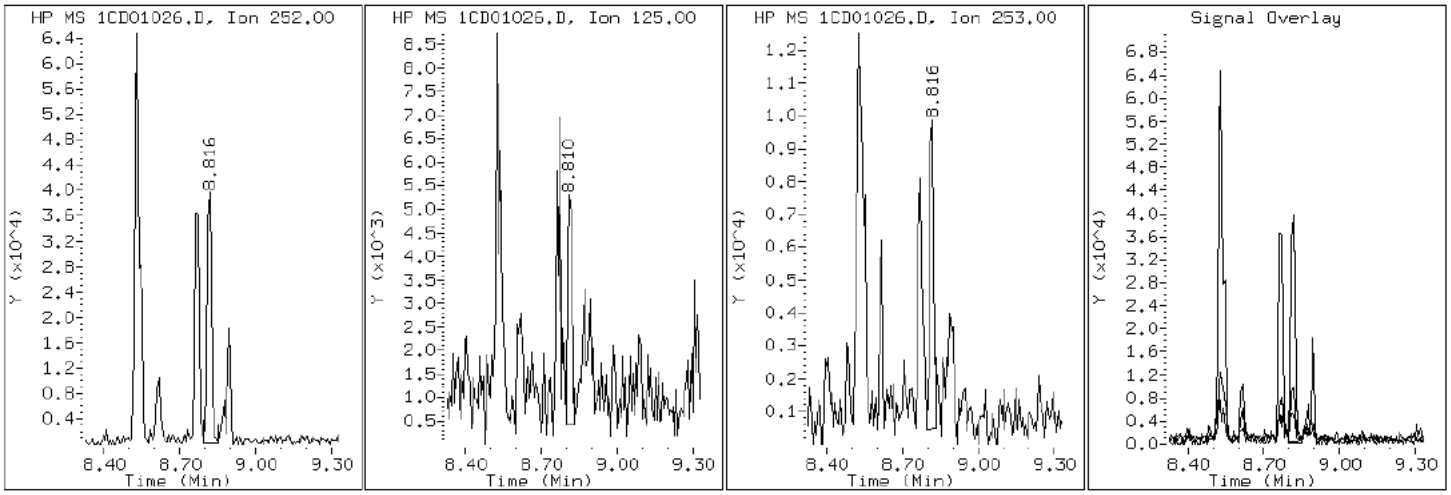
Data File: 1CD01026.D

Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a Operator: SCC

22 Benzo(a)pyrene



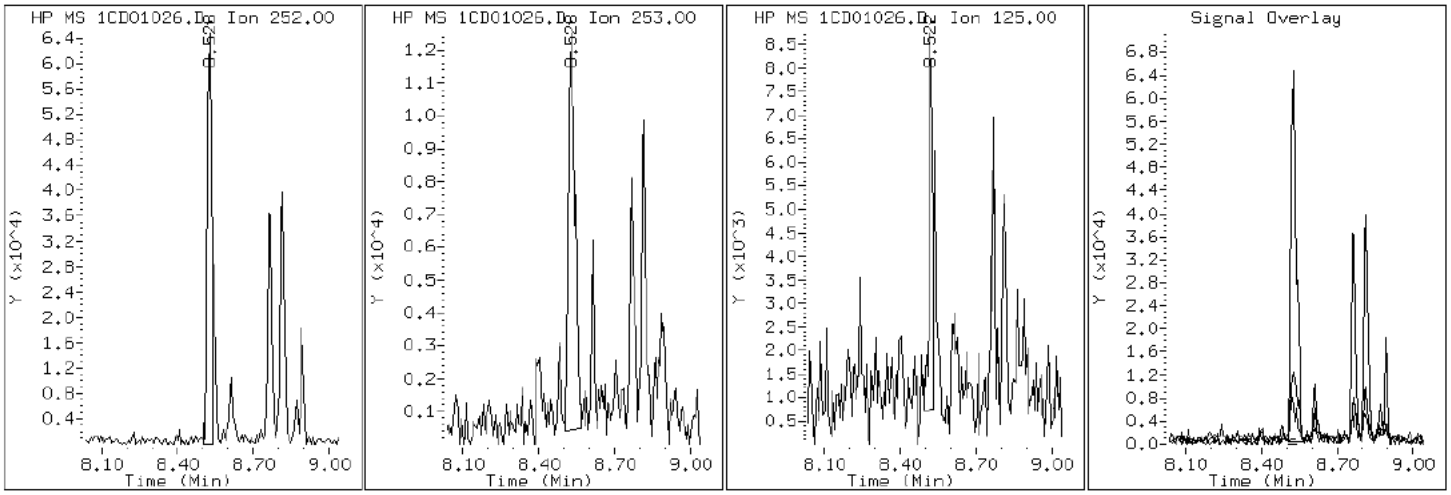
Data File: 1CD01026.D

Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a Operator: SCC

20 Benzo(b)fluoranthene



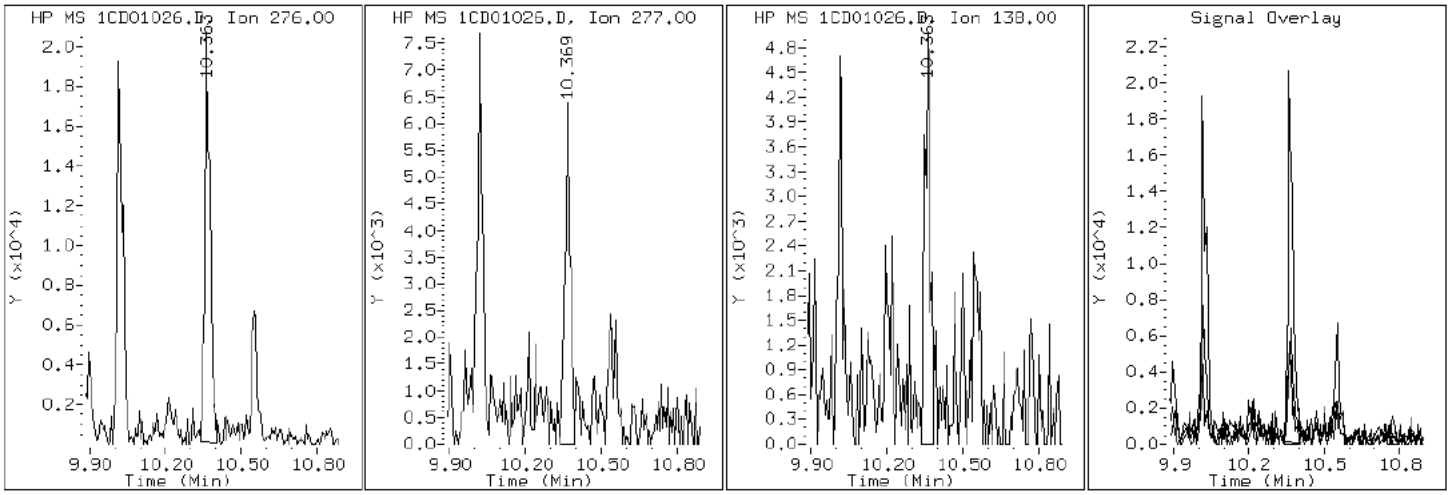
Data File: 1CD01026.D

Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a Operator: SCC

26 Benzo(g,h,i)perylene



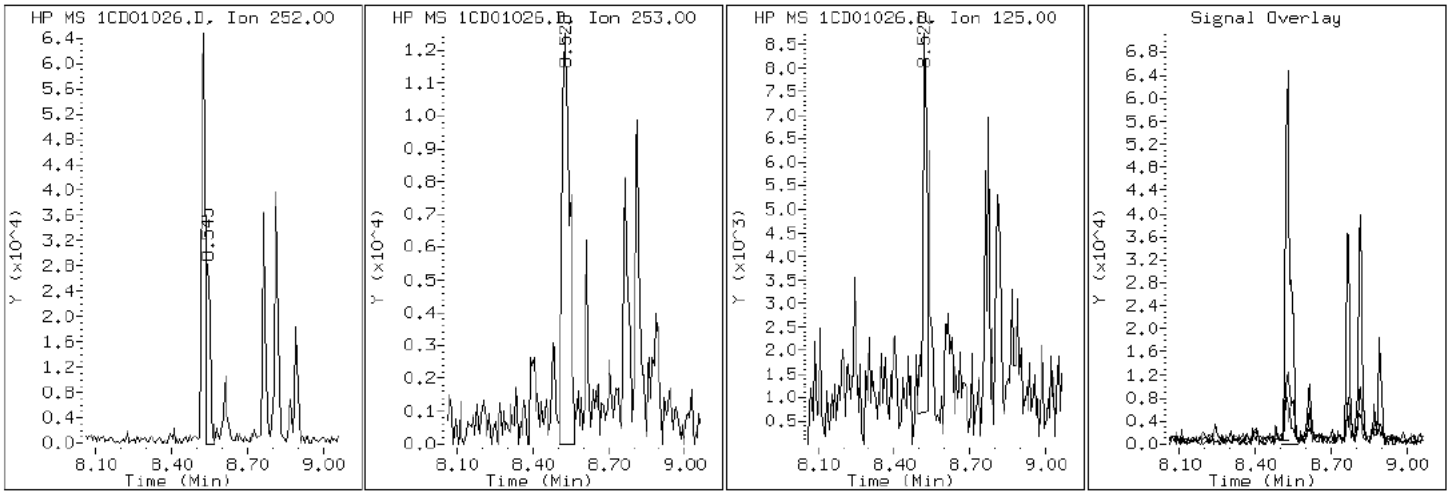
Data File: 1CD01026.D

Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a Operator: SCC

21 Benzo(k)fluoranthene



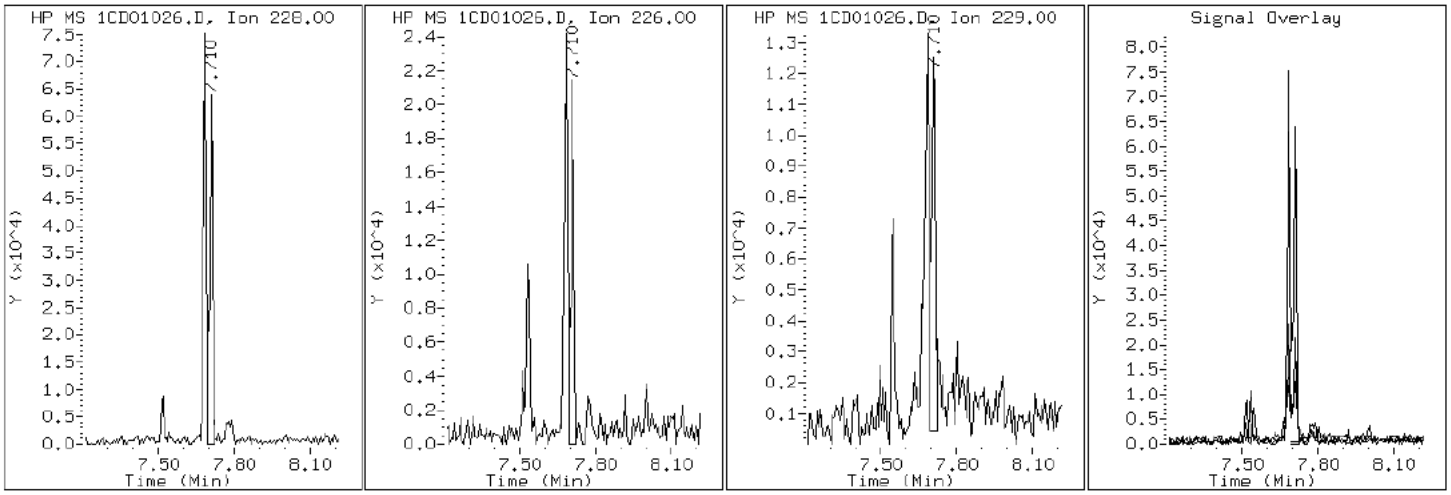
Data File: 1CD01026.D

Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a Operator: SCC

19 Chrysene



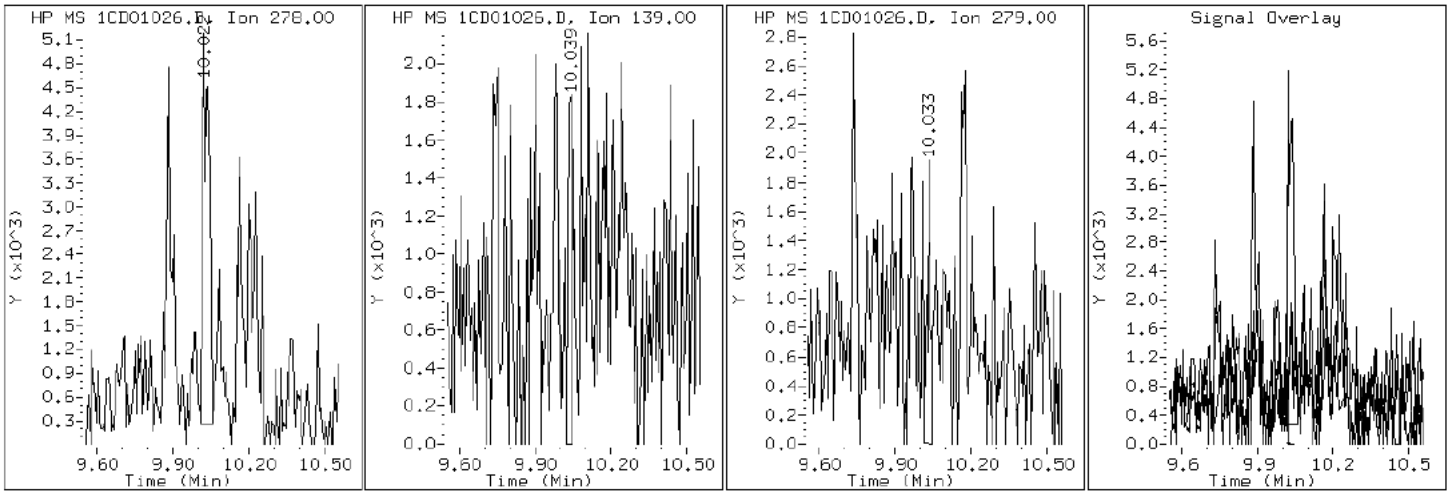
Data File: 1CD01026.D

Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a Operator: SCC

25 Dibenzo(a,h)anthracene



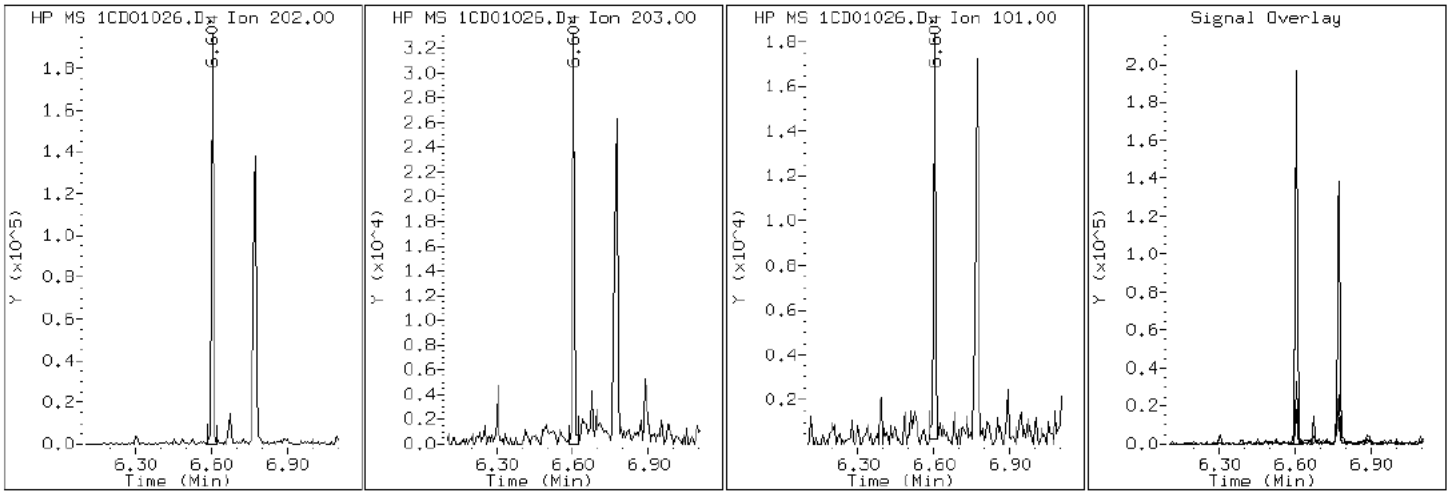
Data File: 1CD01026.D

Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a Operator: SCC

15 Fluoranthene



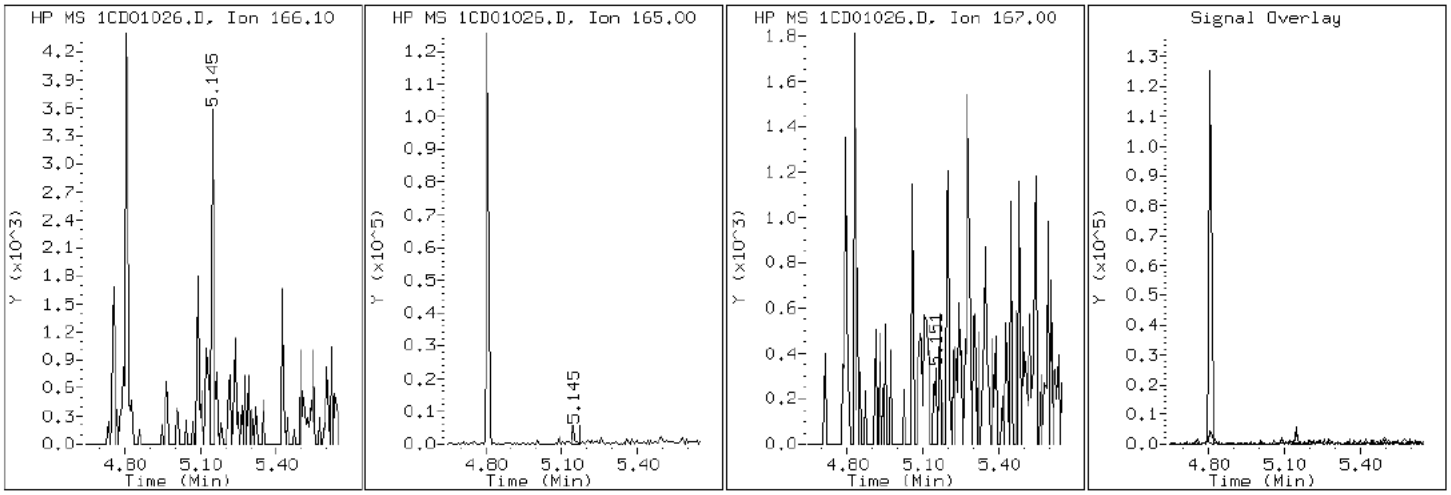
Data File: 1CD01026.D

Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a Operator: SCC

9 Fluorene



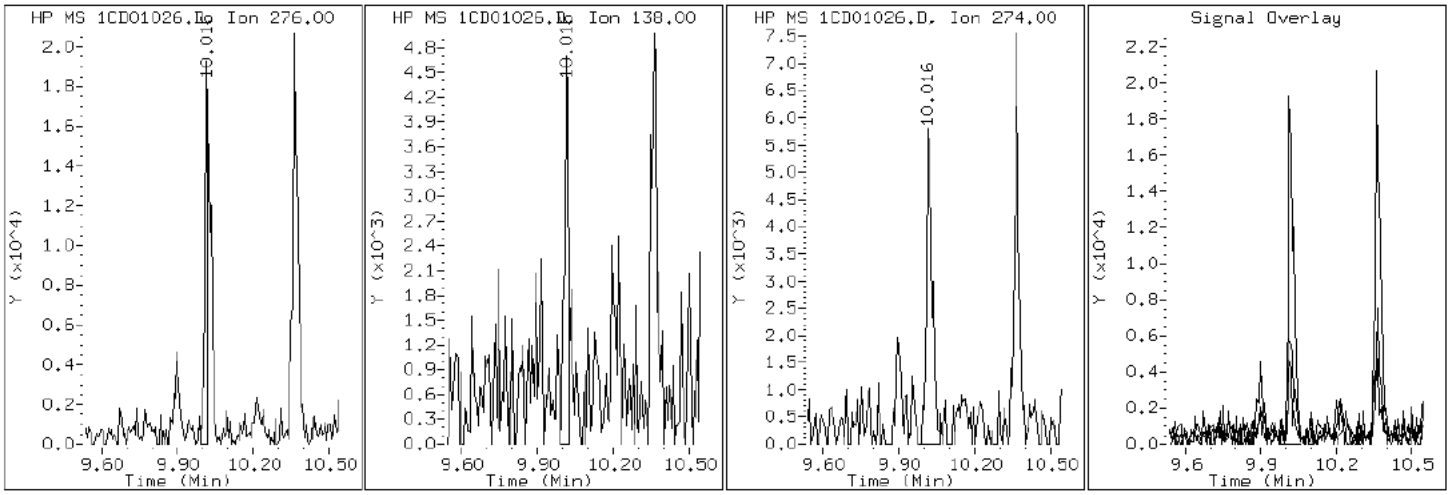
Data File: 1CD01026.D

Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD | Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a | Operator: SCC

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



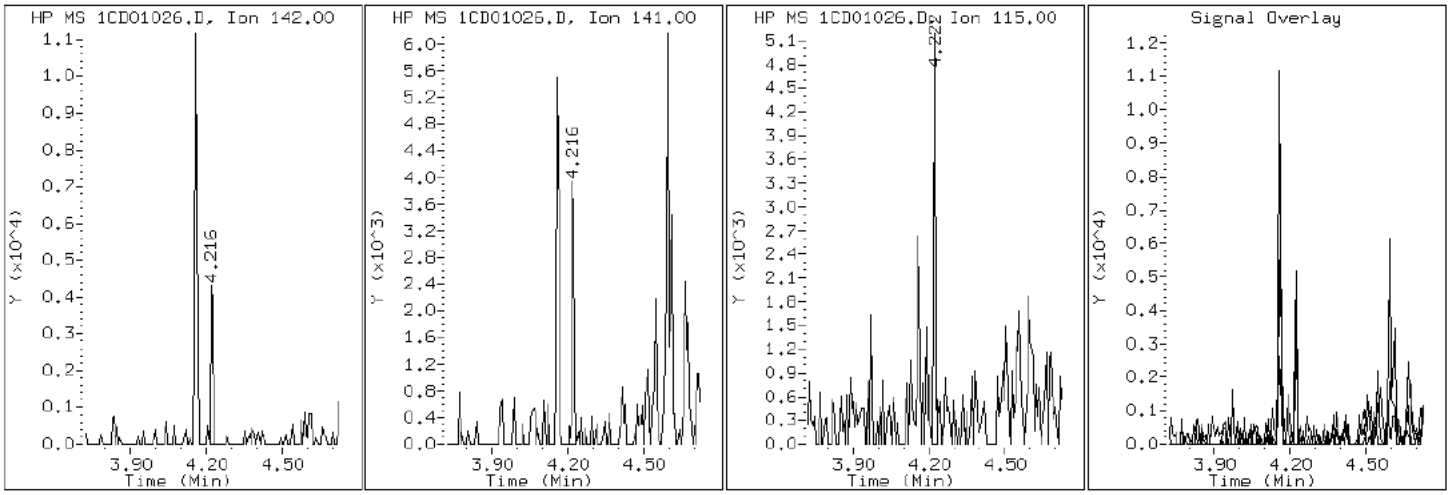
Data File: 1CD01026.D

Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a Operator: SCC

4 1-Methylnaphthalene



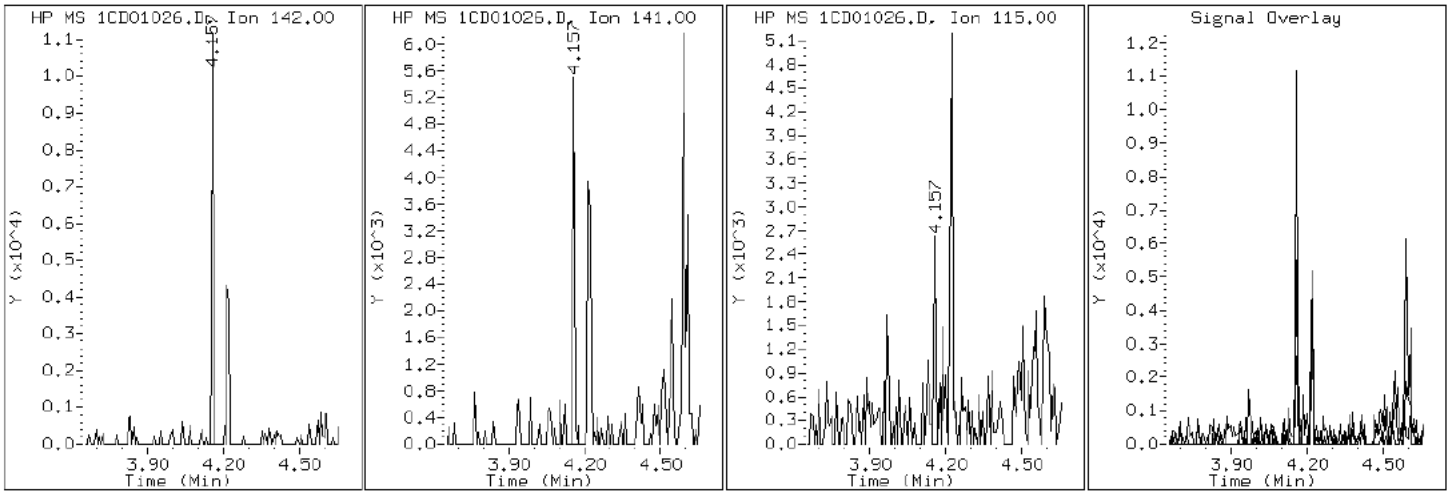
Data File: 1CD01026.D

Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a Operator: SCC

3 2-Methylnaphthalene



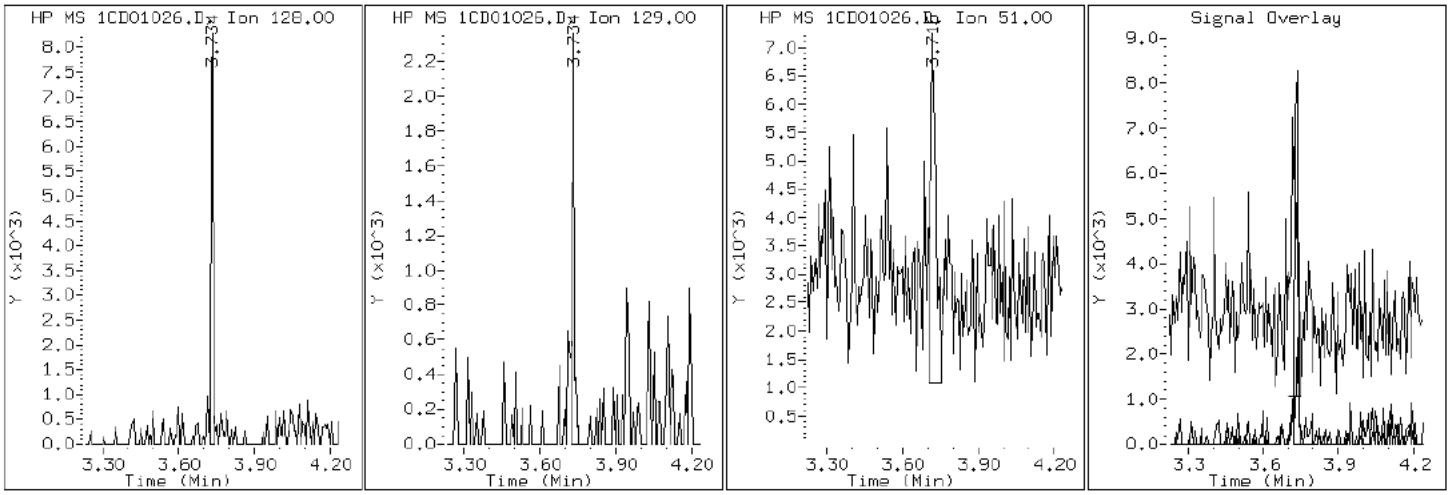
Data File: 1CD01026.D

Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a Operator: SCC

2 Naphthalene



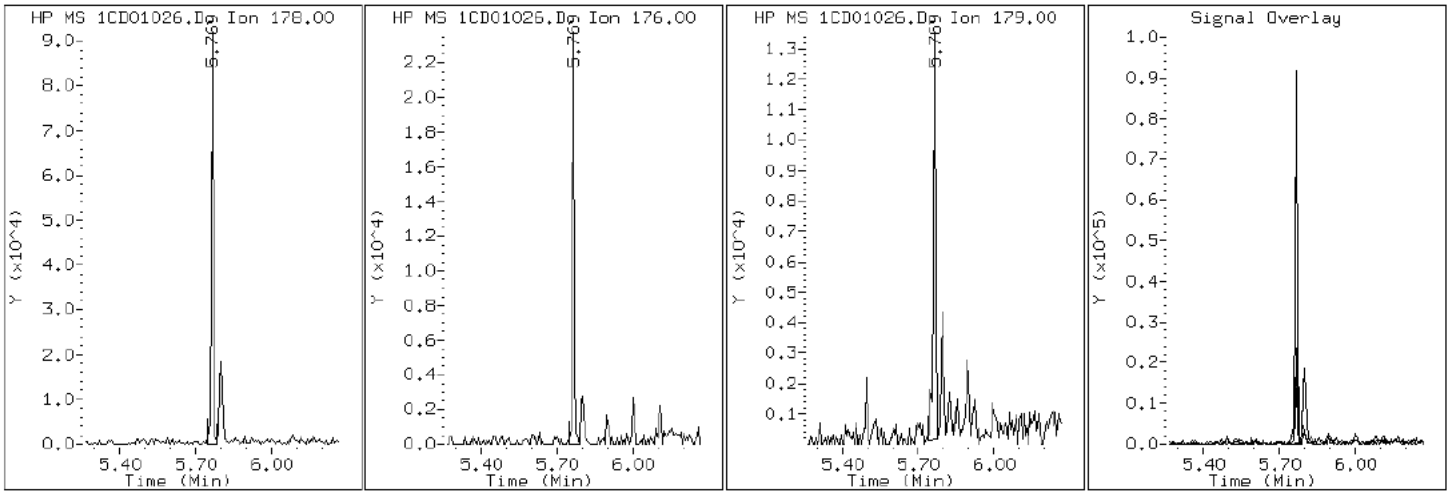
Data File: 1CD01026.D

Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a Operator: SCC

11 Phenanthrene



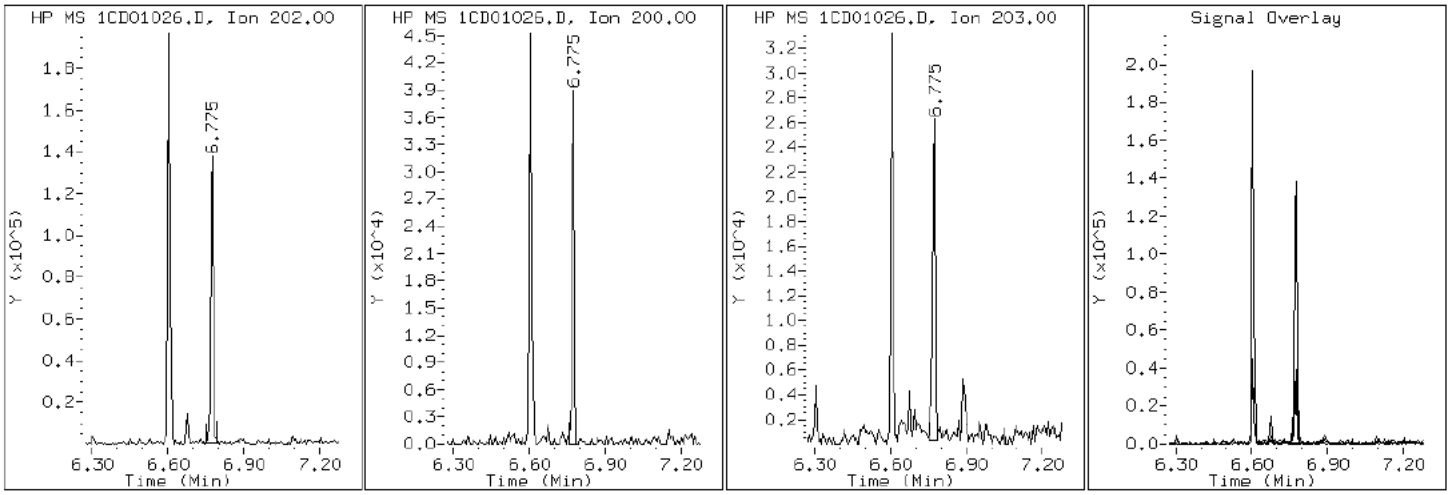
Data File: 1CD01026.D

Date: 01-APR-2013 18:50

Client ID: CV0197B-CSD Instrument: BSMC5973.i

Sample Info: 680-88632-a-33-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD01026.D
Inj. Date and Time: 01-APR-2013 18:50
Instrument ID: BSMC5973.i
Client ID: CV0197B-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

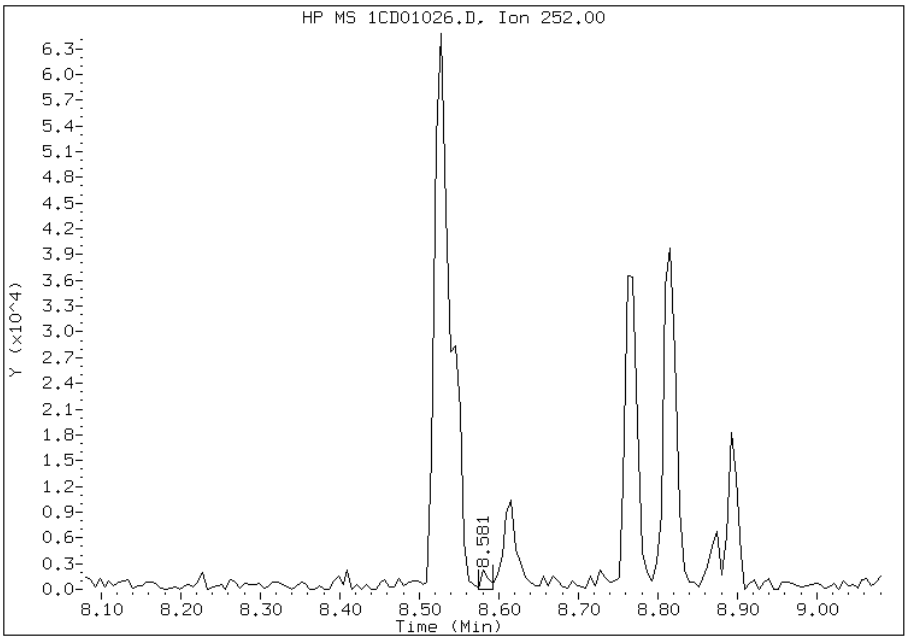
Processing Integration Results

RT: 8.58

Response: 1542

Amount: 0

Conc: 22



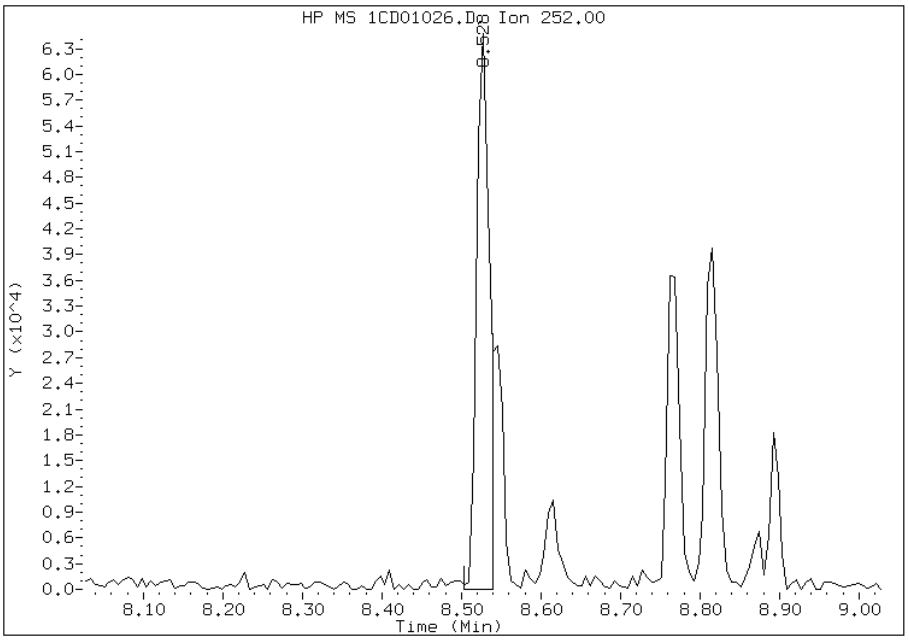
Manual Integration Results

RT: 8.53

Response: 72500

Amount: 3

Conc: 1033



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 09:46
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD01026.D
Inj. Date and Time: 01-APR-2013 18:50
Instrument ID: BSMC5973.i
Client ID: CV0197B-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

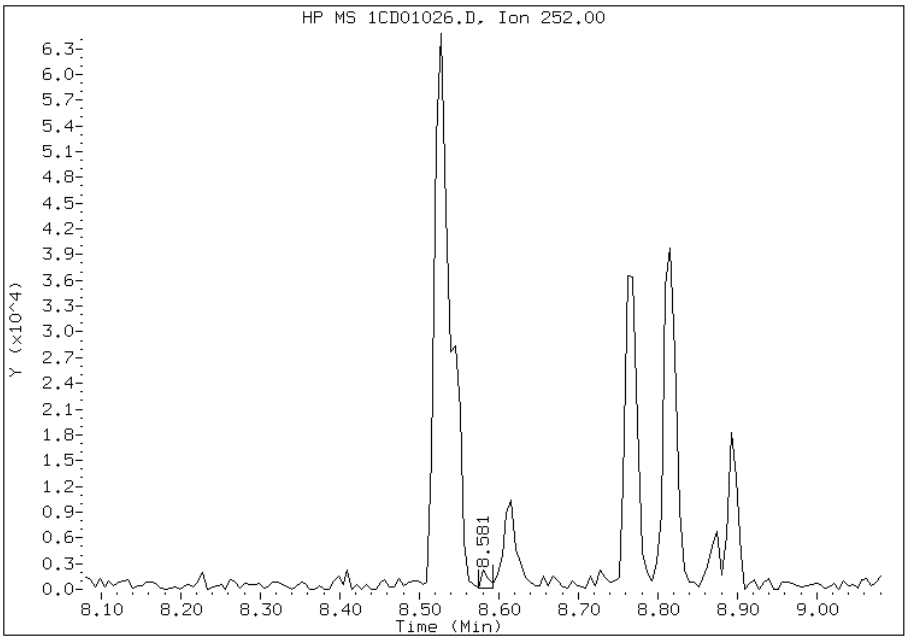
Processing Integration Results

RT: 8.58

Response: 1284

Amount: 0

Conc: 18



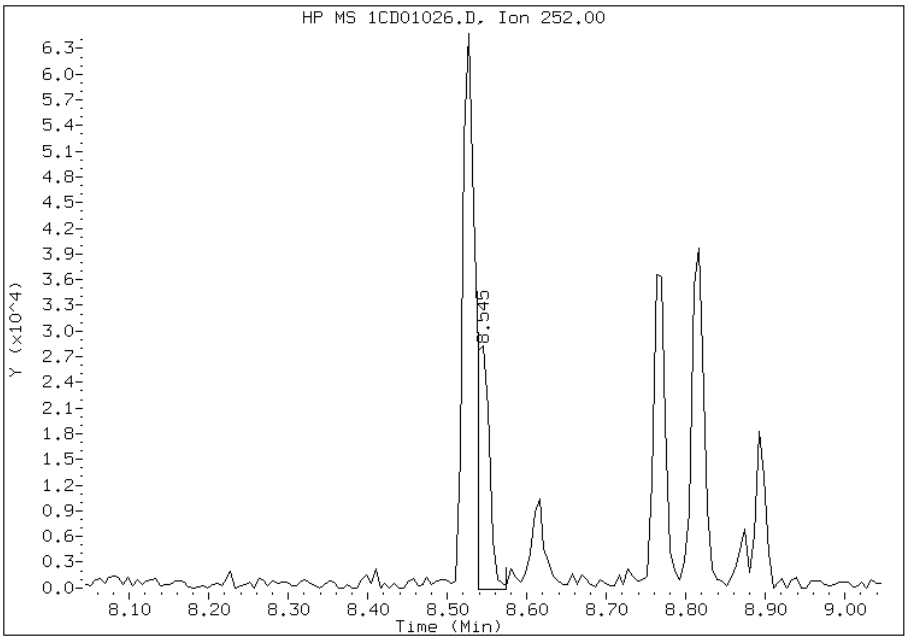
Manual Integration Results

RT: 8.55

Response: 30206

Amount: 1

Conc: 419



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 09:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01026.D
Inj. Date and Time: 01-APR-2013 18:50
Instrument ID: BSMC5973.i
Client ID: CV0197B-CSD
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/03/2013

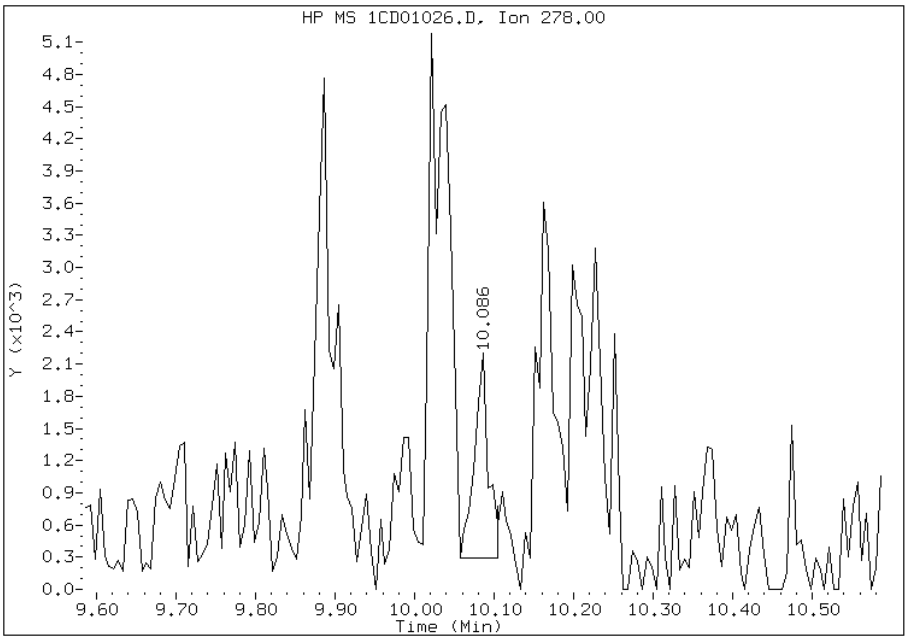
Processing Integration Results

RT: 10.09

Response: 2301

Amount: 0

Conc: 37



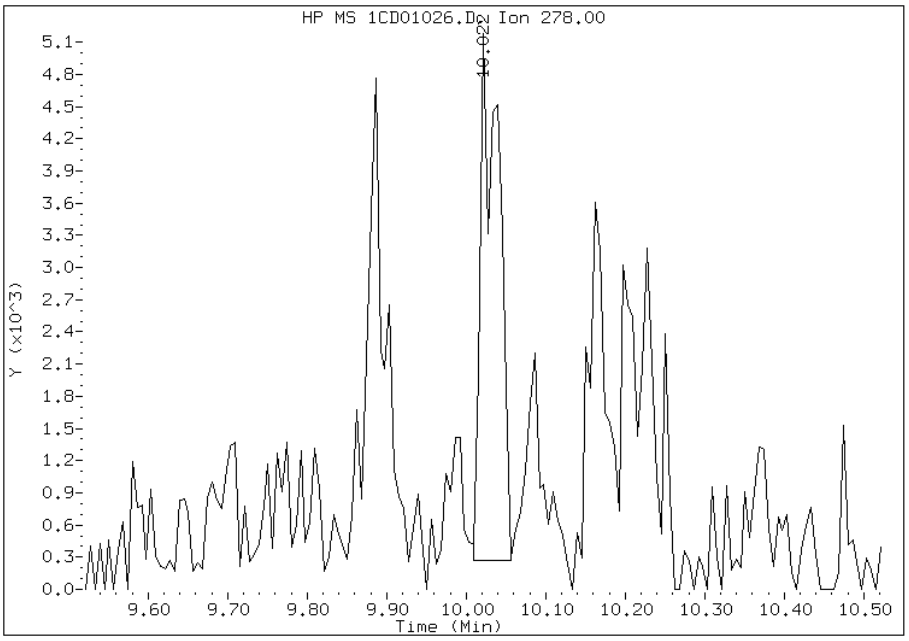
Manual Integration Results

RT: 10.02

Response: 8104

Amount: 0

Conc: 129



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 09:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01026.D
Inj. Date and Time: 01-APR-2013 18:50
Instrument ID: BSMC5973.i
Client ID: CV0197B-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

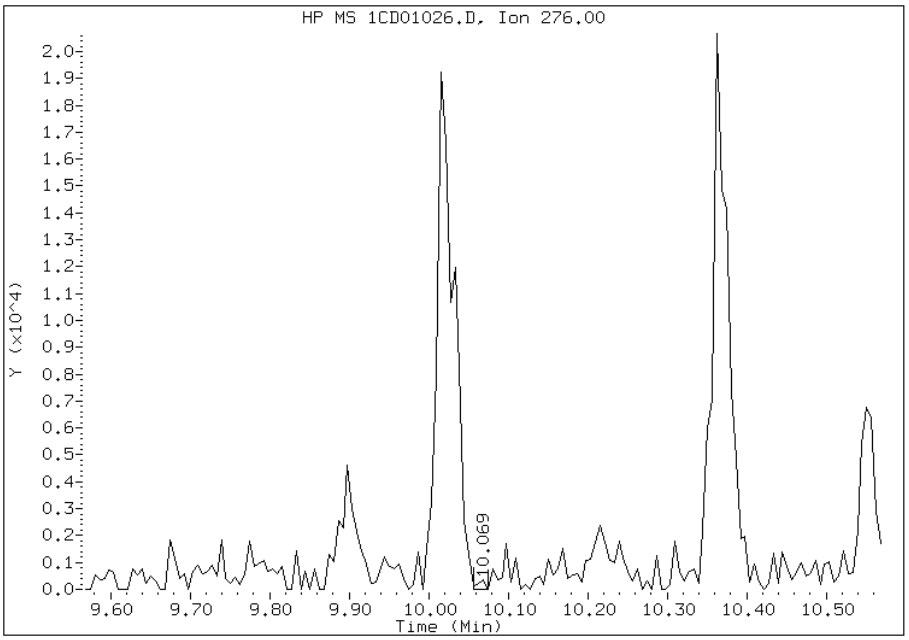
Processing Integration Results

RT: 10.07

Response: 273

Amount: 0

Conc: 4



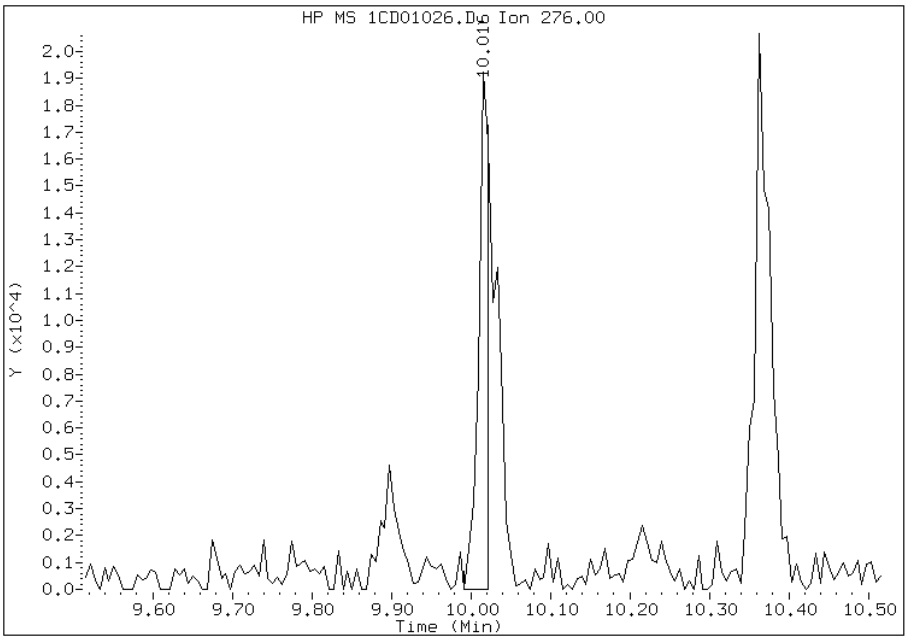
Manual Integration Results

RT: 10.02

Response: 17150

Amount: 1

Conc: 267



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 09:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: CV0197C-CS | Lab Sample ID: 680-88632-34

Matrix: Solid | Lab File ID: 1CD01027.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 13:50

Extract. Method: 3546 | Date Extracted: 03/27/2013 15:04

Sample wt/vol: 14.95(g) | Date Analyzed: 04/01/2013 19:08

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

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

% Moisture: 30.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135996 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	580	U	580	120
208-96-8	Acenaphthylene	44	J	230	29
120-12-7	Anthracene	120		49	24
56-55-3	Benzo[a]anthracene	430		46	23
50-32-8	Benzo[a]pyrene	390		60	30
205-99-2	Benzo[b]fluoranthene	790		71	35
191-24-2	Benzo[g,h,i]perylene	620		120	25
207-08-9	Benzo[k]fluoranthene	200		46	21
218-01-9	Chrysene	280		52	26
53-70-3	Dibenz(a,h)anthracene	130		120	24
206-44-0	Fluoranthene	590		120	23
86-73-7	Fluorene	45	J	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	430		120	41
90-12-0	1-Methylnaphthalene	80	J	230	25
91-57-6	2-Methylnaphthalene	96	J	230	41
91-20-3	Naphthalene	110	J	230	25
85-01-8	Phenanthrene	330		46	23
129-00-0	Pyrene	460		120	21

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01027.D
Lab Smp Id: 680-88632-A-34-A Client Smp ID: CV0197C-CS
Inj Date : 01-APR-2013 19:08
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-34-a
Misc Info : 680-88632-A-34-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 27
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	14.950	Weight Extracted
M	30.583	% 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	3.715	3.716	(1.000)	726624	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	572783	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	1031946	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	23637	1.51708	584.7327
* 18 Chrysene-d12	240	7.698	7.698	(1.000)	1134238	40.0000	
* 23 Perylene-d12	264	8.880	8.886	(1.000)	1112071	40.0000	
2 Naphthalene	128	3.733	3.733	(1.005)	5559	0.29387	113.2660(Q)
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	3152	0.24980	96.2797(Q)
4 1-Methylnaphthalene	142	4.215	4.222	(1.135)	2373	0.20649	79.5869(Q)
5 Acenaphthylene	152	4.715	4.716	(0.982)	2610	0.11302	43.5625(Q)
9 Fluorene	166	5.139	5.145	(1.070)	2107	0.11607	44.7379
11 Phenanthrene	178	5.768	5.768	(1.003)	25871	0.86701	334.1752
12 Anthracene	178	5.804	5.804	(1.009)	9068	0.31073	119.7668
13 Carbazole	167	5.909	5.910	(1.028)	8091	0.31190	120.2152

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.604	6.604	(1.148)	49602	1.51792	585.0570
16 Pyrene	202	6.774	6.774	(0.880)	36173	1.18674	457.4093
17 Benzo(a)anthracene	228	7.686	7.692	(0.998)	36247	1.10724	426.7685
19 Chrysene	228	7.715	7.715	(1.002)	23815	0.72693	280.1849
20 Benzo(b)fluoranthene	252	8.533	8.539	(0.961)	59372	2.04290	787.4045(M)
21 Benzo(k)fluoranthene	252	8.550	8.562	(0.963)	15693	0.52637	202.8806(QMH)
22 Benzo(a)pyrene	252	8.821	8.827	(0.993)	28708	1.01696	391.9705
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.039	(1.130)	29370	1.10598	426.2805(M)
25 Dibenzo(a,h)anthracene	278	10.044	10.056	(1.131)	9044	0.34818	134.1994(QM)
26 Benzo(g,h,i)perylene	276	10.391	10.386	(1.170)	44579	1.60474	618.5222(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: 1CD01027.D

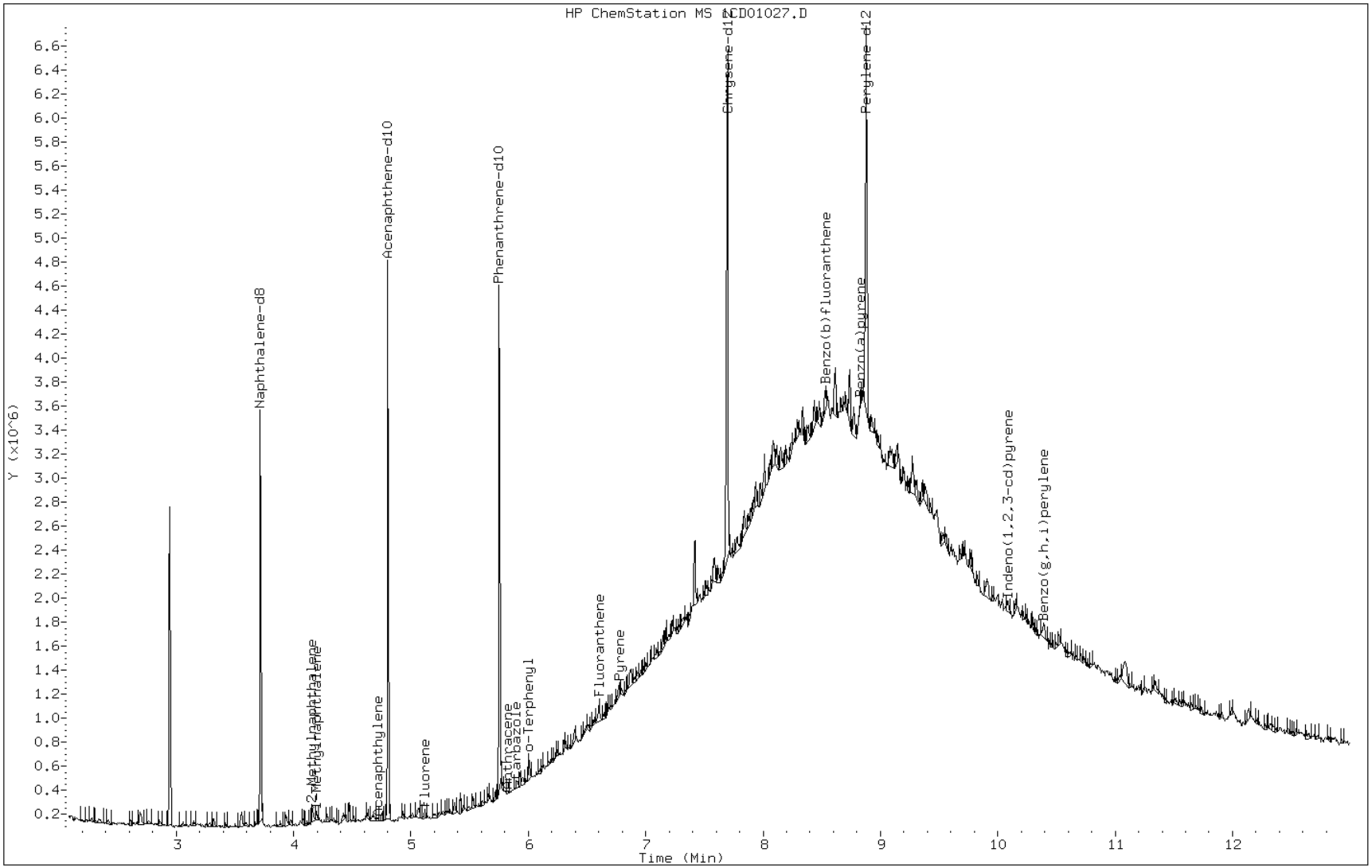
Date: 01-APR-2013 19:08

Client ID: CV0197C-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a

Operator: SCC



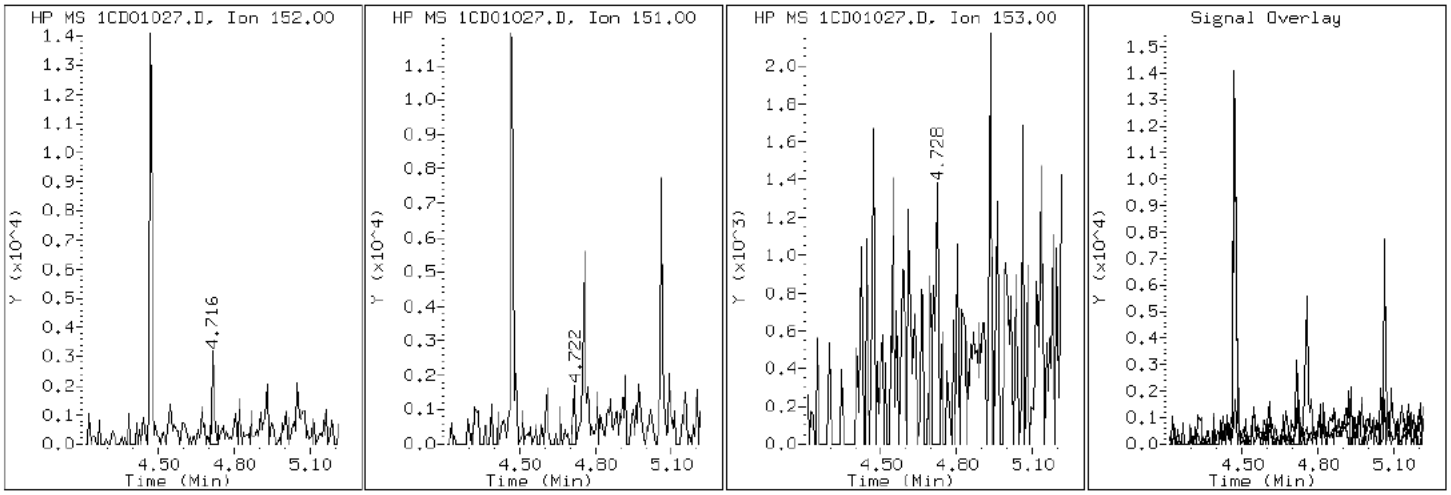
Data File: 1CD01027.D

Date: 01-APR-2013 19:08

Client ID: CV0197C-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a Operator: SCC

5 Acenaphthylene



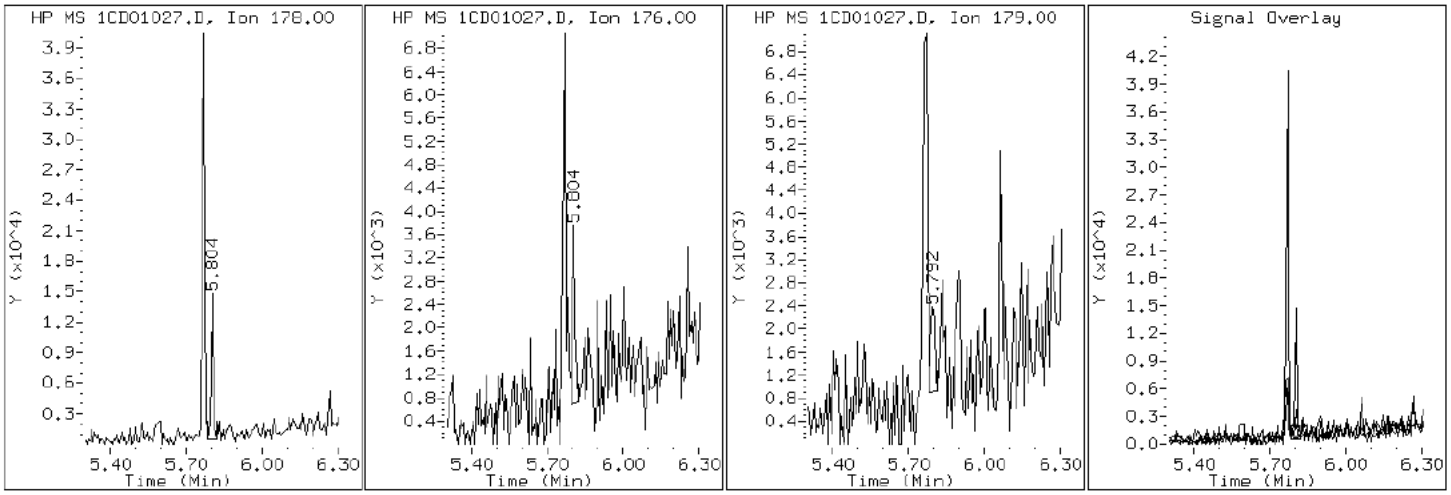
Data File: 1CD01027.D

Date: 01-APR-2013 19:08

Client ID: CV0197C-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a Operator: SCC

12 Anthracene



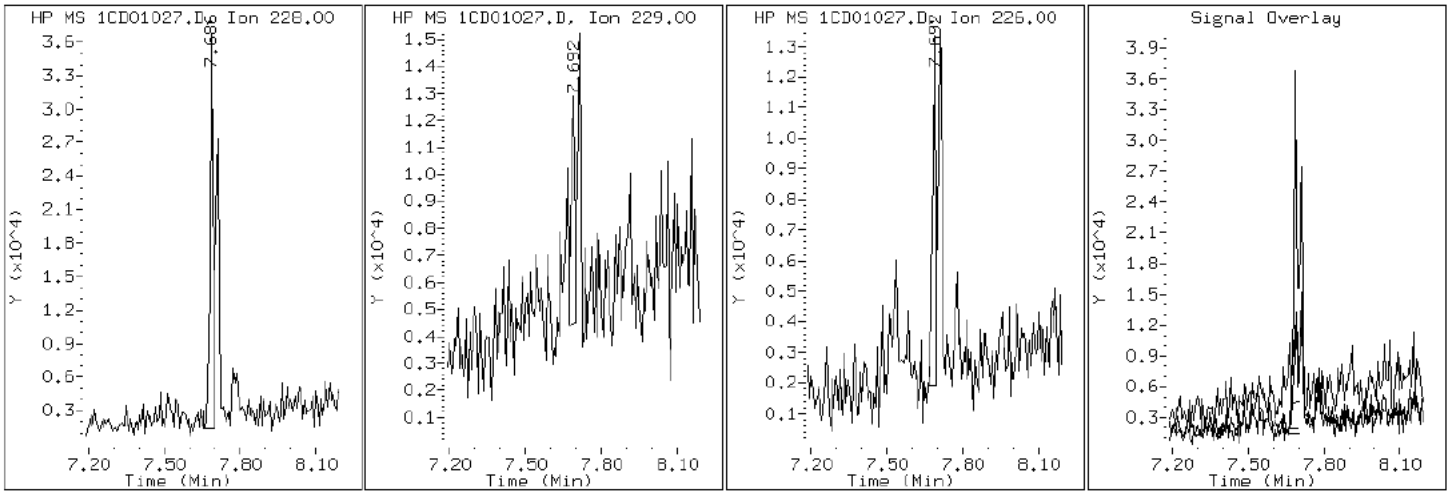
Data File: 1CD01027.D

Date: 01-APR-2013 19:08

Client ID: CV0197C-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a Operator: SCC

17 Benzo(a)anthracene



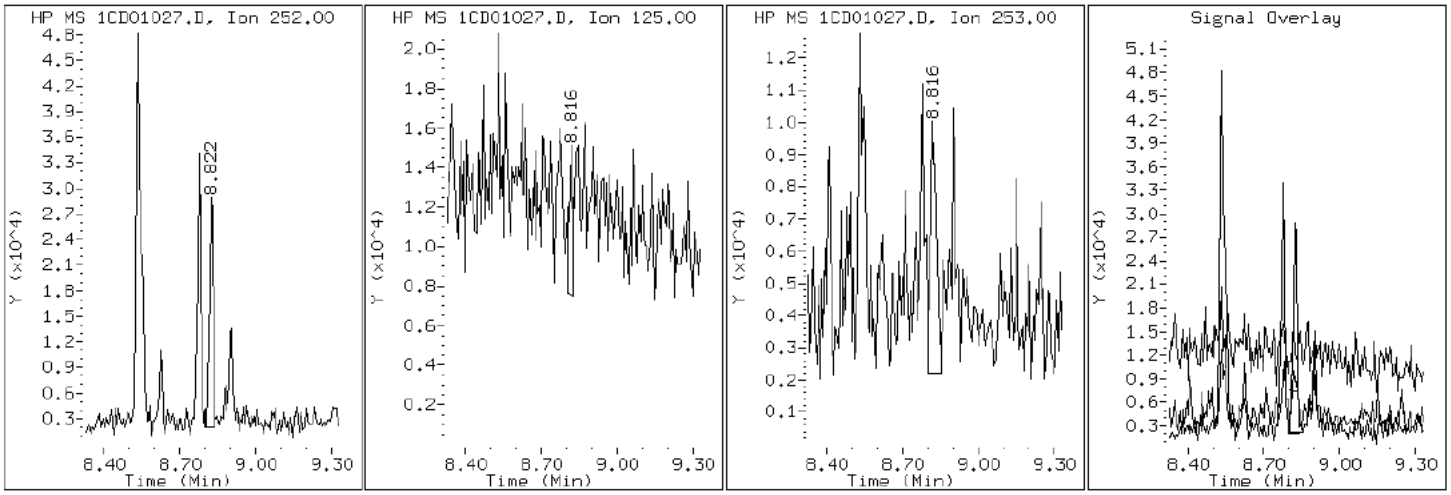
Data File: 1CD01027.D

Date: 01-APR-2013 19:08

Client ID: CV0197C-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a Operator: SCC

22 Benzo(a)pyrene



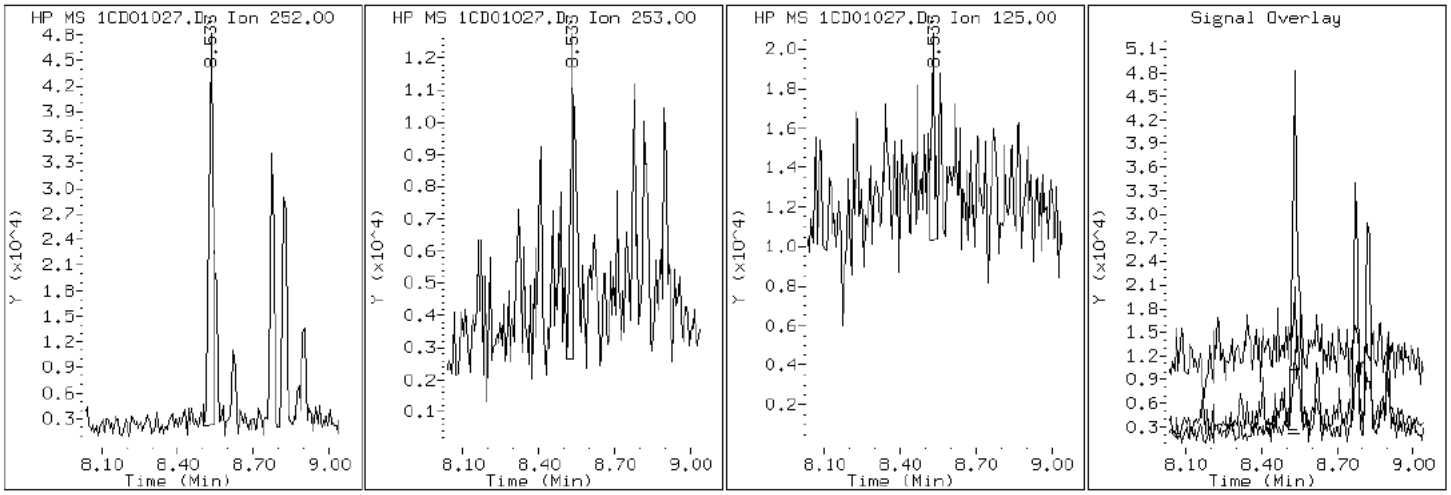
Data File: 1CD01027.D

Date: 01-APR-2013 19:08

Client ID: CV0197C-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a Operator: SCC

20 Benzo(b)fluoranthene



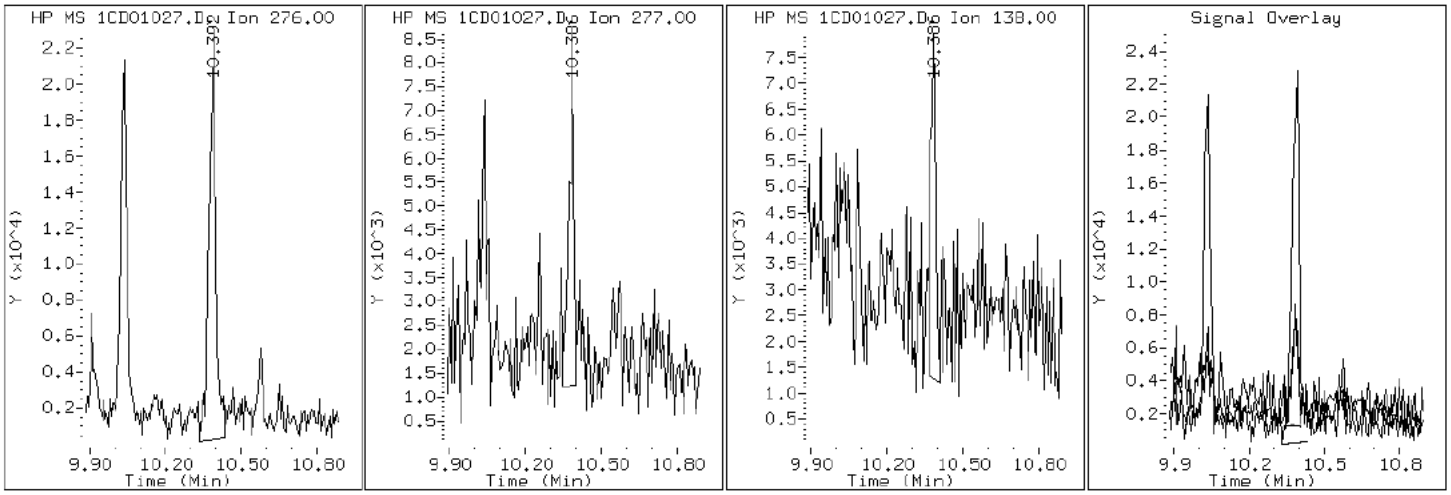
Data File: 1CD01027.D

Date: 01-APR-2013 19:08

Client ID: CV0197C-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a Operator: SCC

26 Benzo(g,h,i)perylene



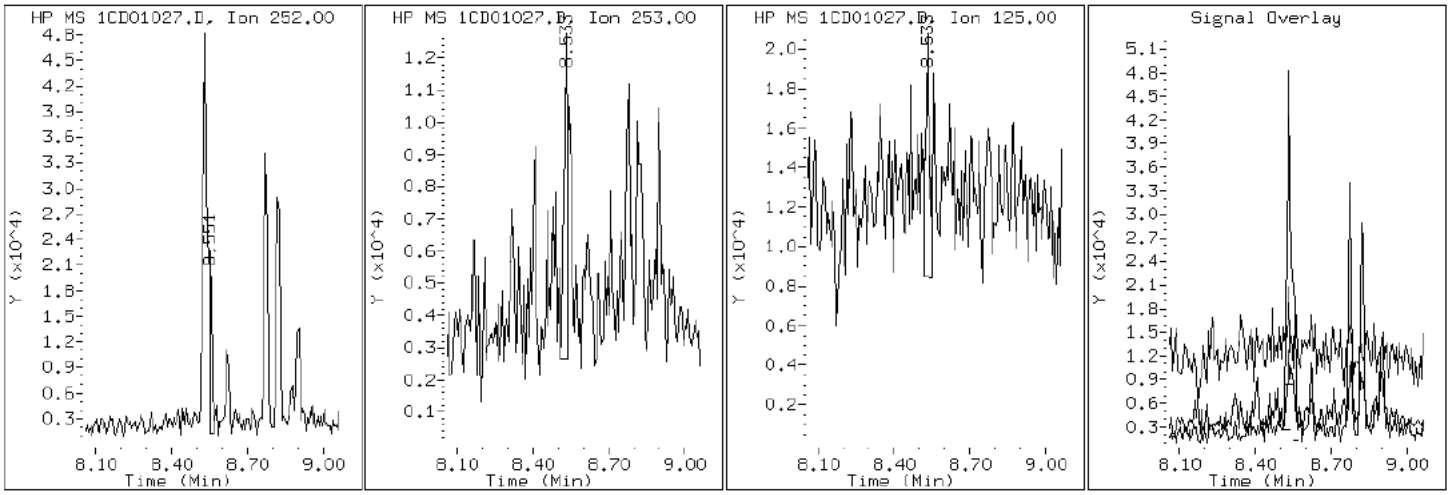
Data File: 1CD01027.D

Date: 01-APR-2013 19:08

Client ID: CV0197C-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a Operator: SCC

21 Benzo(k)fluoranthene



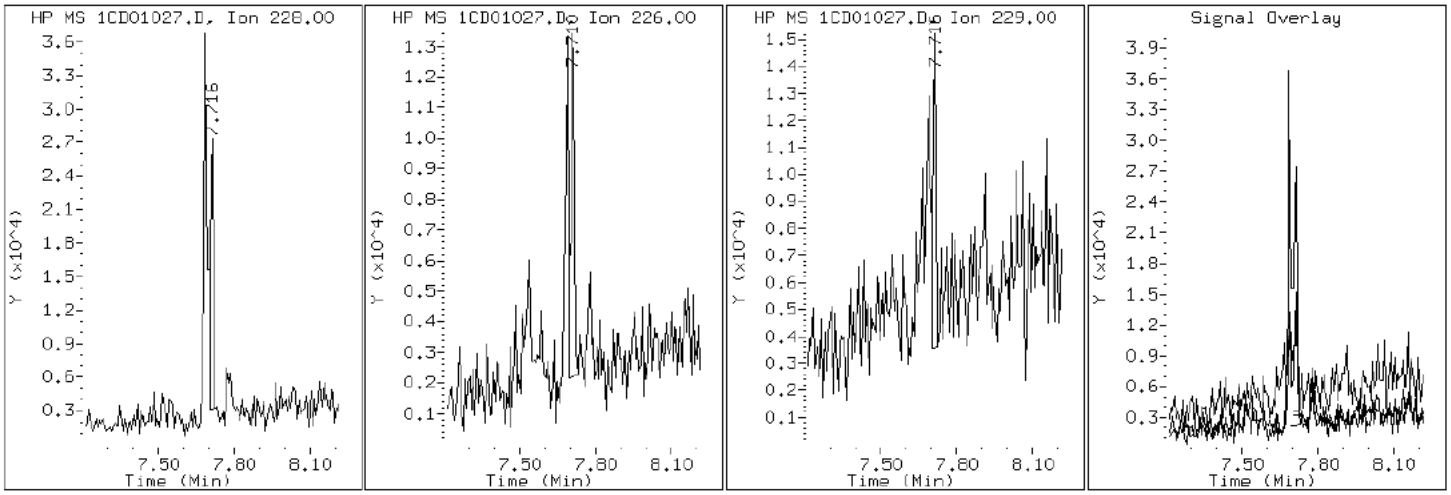
Data File: 1CD01027.D

Date: 01-APR-2013 19:08

Client ID: CV0197C-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a Operator: SCC

19 Chrysene



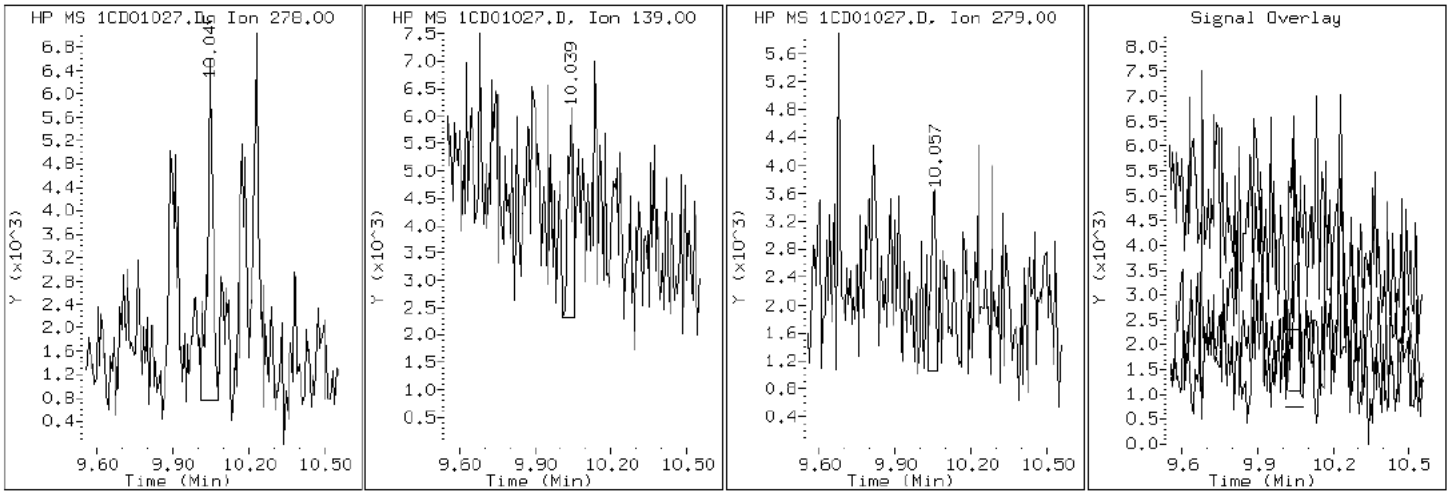
Data File: 1CD01027.D

Date: 01-APR-2013 19:08

Client ID: CV0197C-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a Operator: SCC

25 Dibenzo(a,h)anthracene



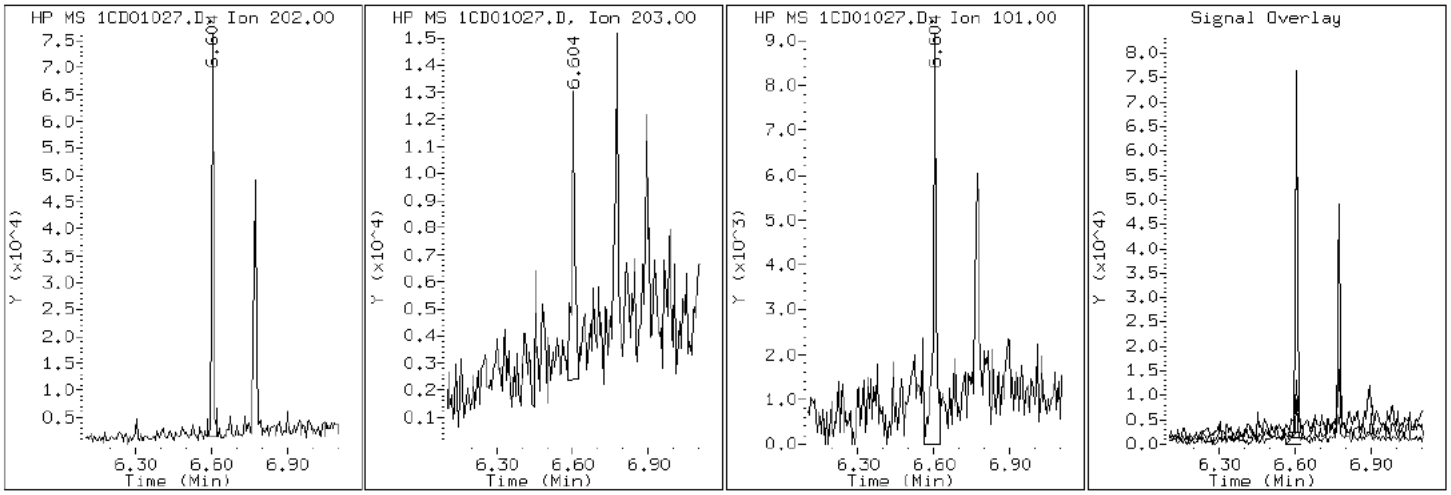
Data File: 1CD01027.D

Date: 01-APR-2013 19:08

Client ID: CV0197C-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a Operator: SCC

15 Fluoranthene



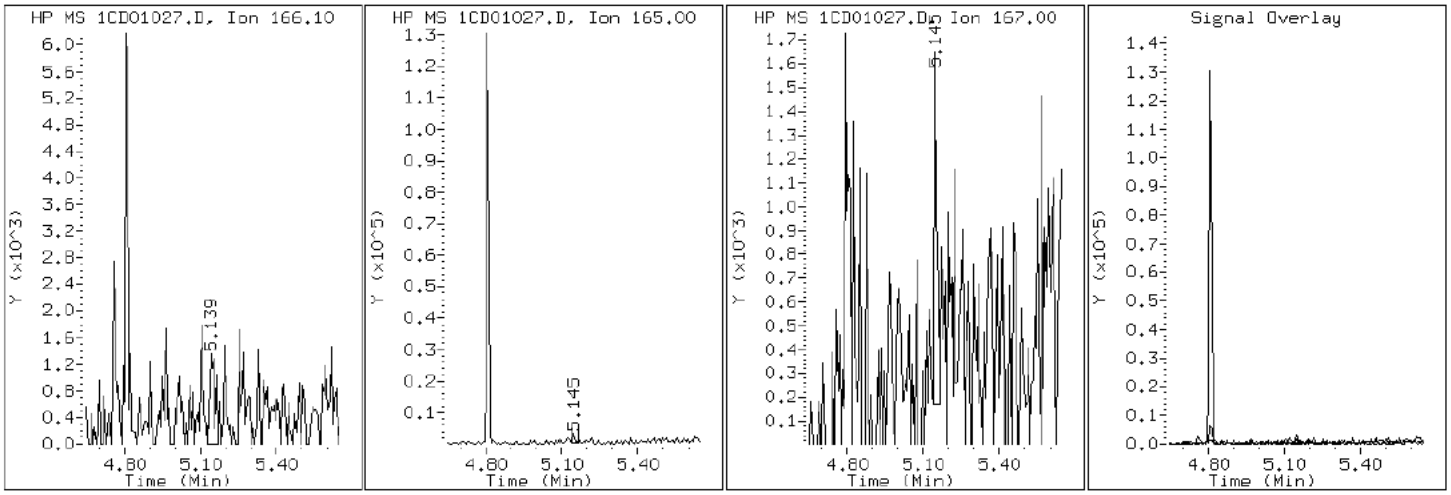
Data File: 1CD01027.D

Date: 01-APR-2013 19:08

Client ID: CV0197C-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a Operator: SCC

9 Fluorene



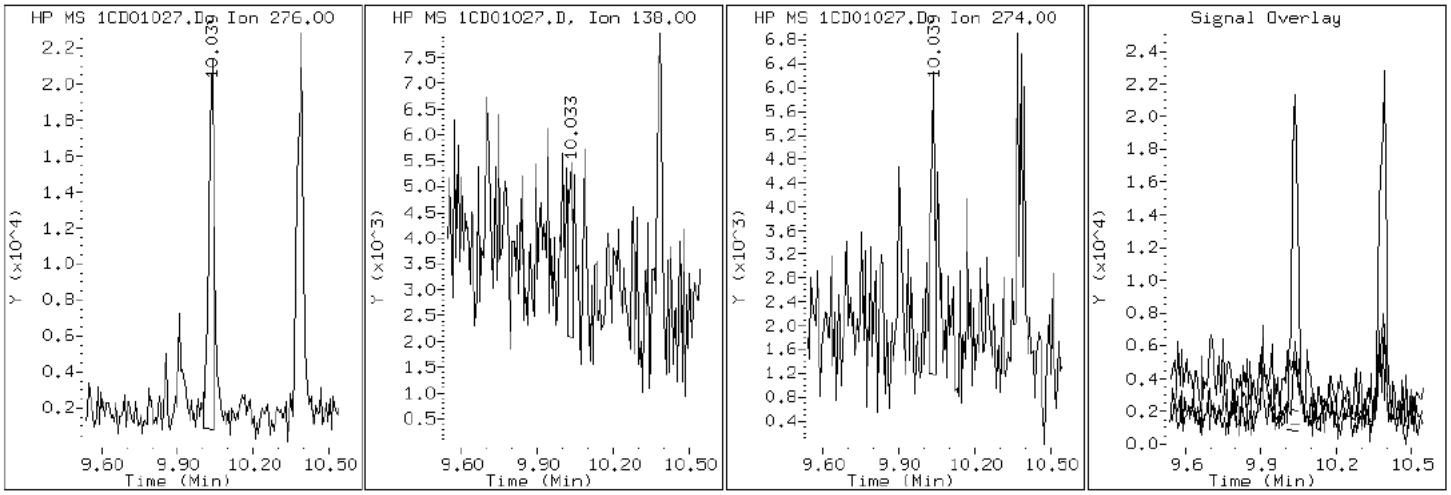
Data File: 1CD01027.D

Date: 01-APR-2013 19:08

Client ID: CV0197C-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a Operator: SCC

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



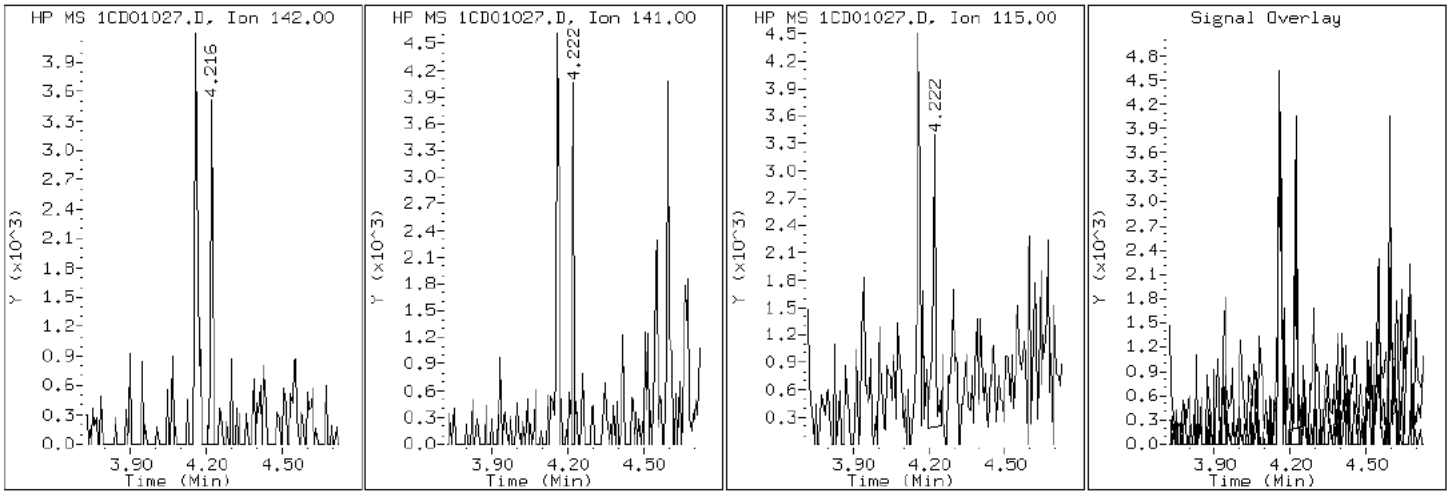
Data File: 1CD01027.D

Date: 01-APR-2013 19:08

Client ID: CV0197C-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a Operator: SCC

4 1-Methylnaphthalene



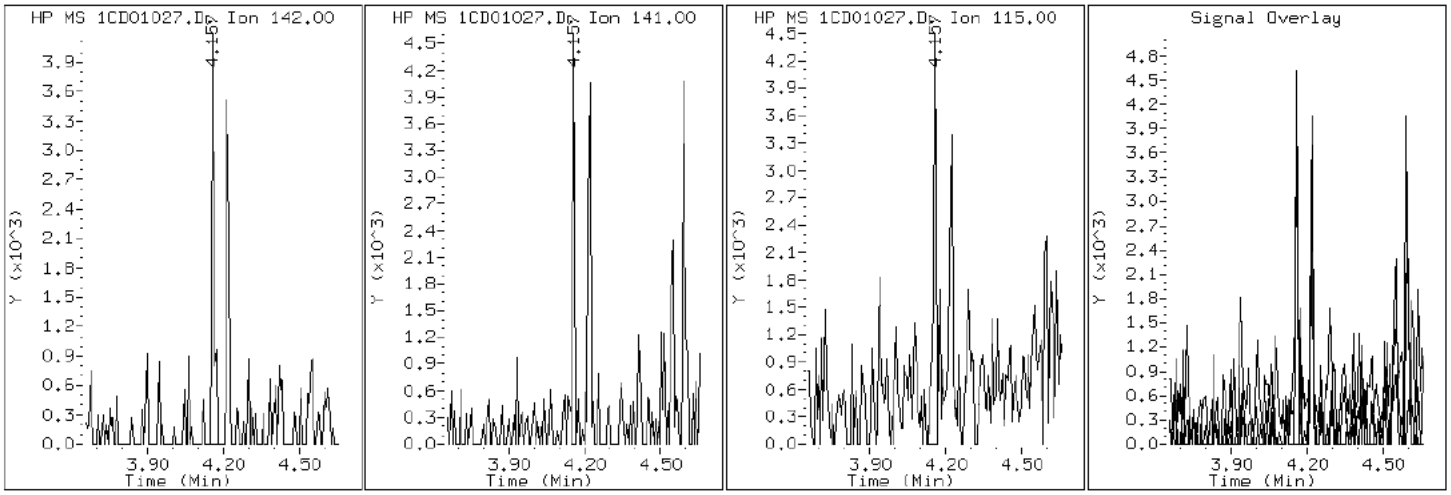
Data File: 1CD01027.D

Date: 01-APR-2013 19:08

Client ID: CV0197C-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a Operator: SCC

3 2-Methylnaphthalene



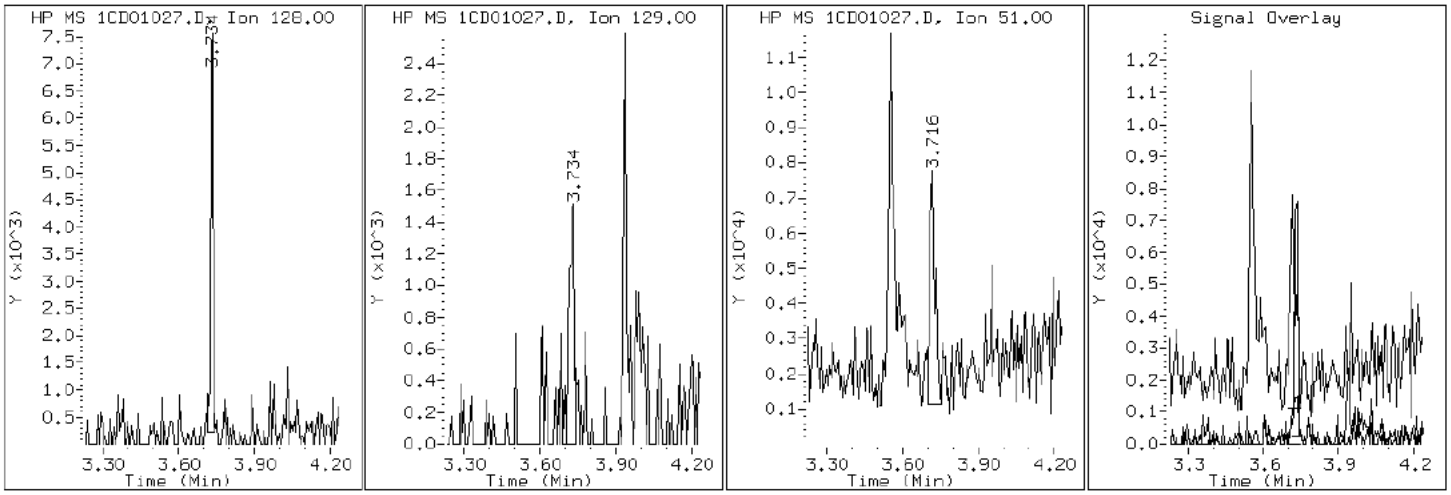
Data File: 1CD01027.D

Date: 01-APR-2013 19:08

Client ID: CV0197C-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a Operator: SCC

2 Naphthalene



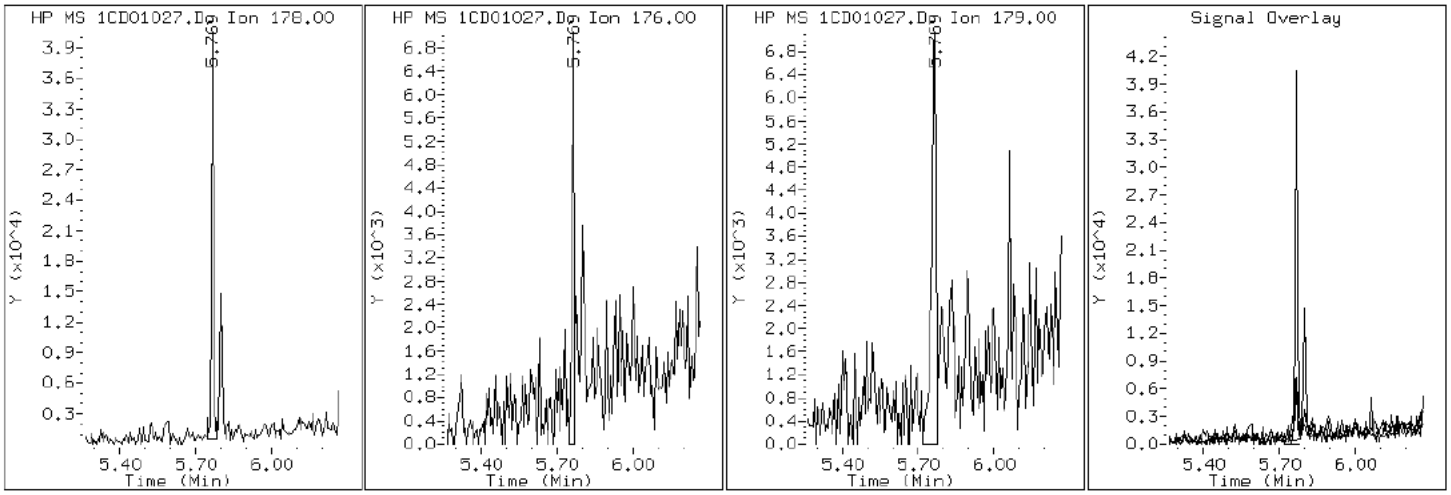
Data File: 1CD01027.D

Date: 01-APR-2013 19:08

Client ID: CV0197C-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a Operator: SCC

11 Phenanthrene



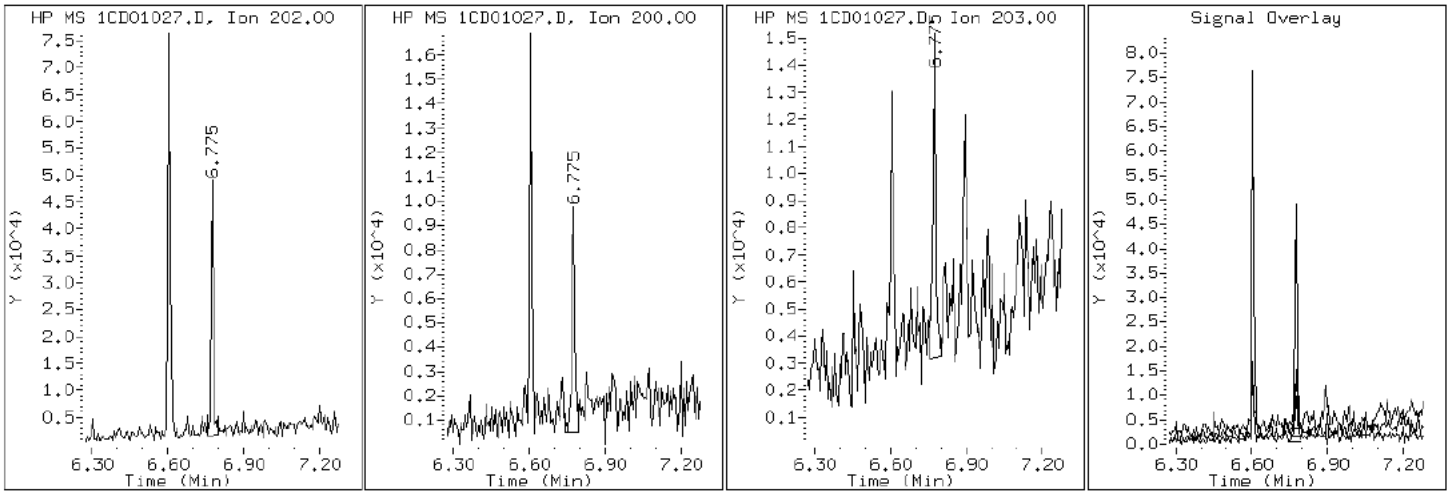
Data File: 1CD01027.D

Date: 01-APR-2013 19:08

Client ID: CV0197C-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-34-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD01027.D
Inj. Date and Time: 01-APR-2013 19:08
Instrument ID: BSMC5973.i
Client ID: CV0197C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

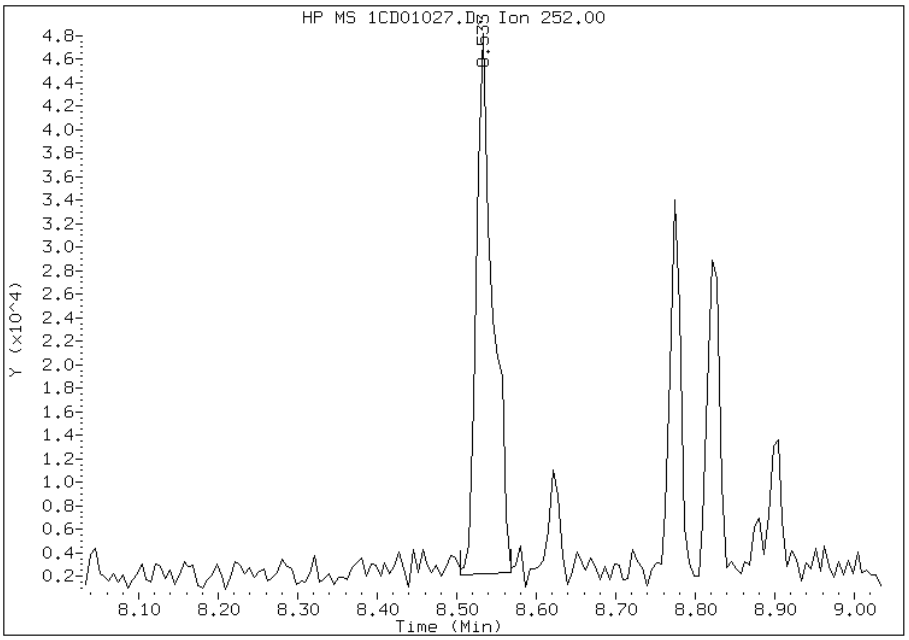
Processing Integration Results

RT: 8.53

Response: 67085

Amount: 2

Conc: 890



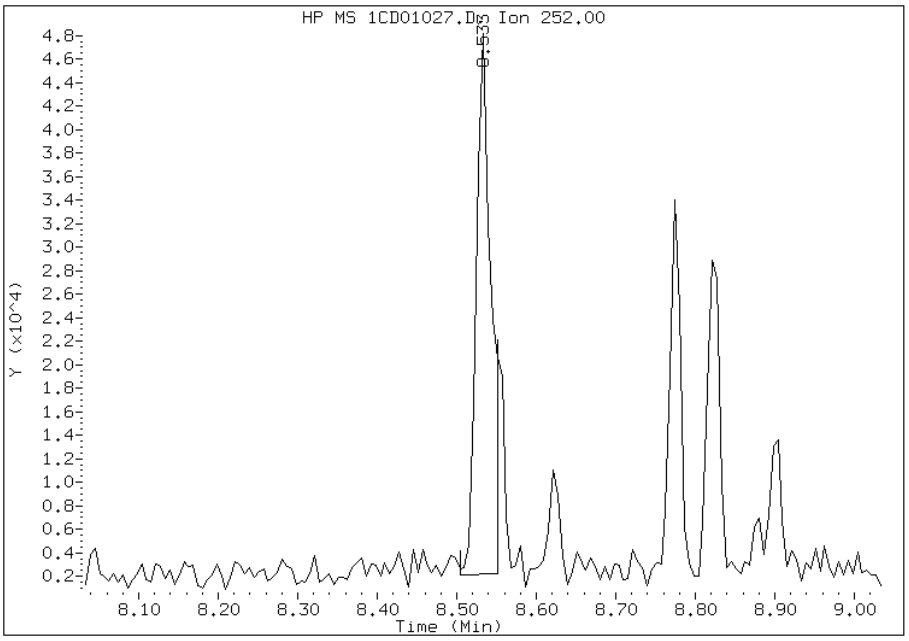
Manual Integration Results

RT: 8.53

Response: 59372

Amount: 2

Conc: 787



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 09:48
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD01027.D
Inj. Date and Time: 01-APR-2013 19:08
Instrument ID: BSMC5973.i
Client ID: CV0197C-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/03/2013

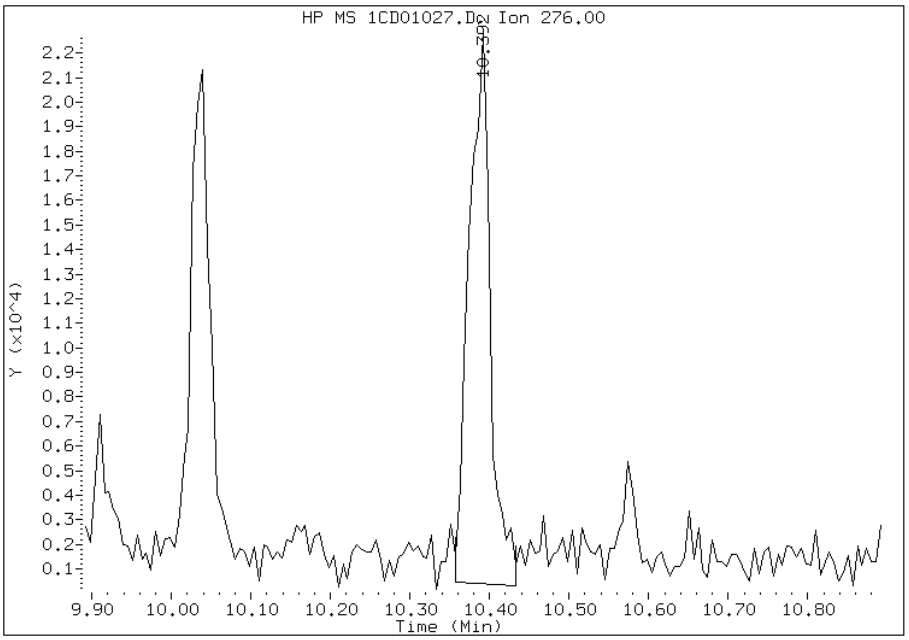
Processing Integration Results

RT: 10.39

Response: 42069

Amount: 2

Conc: 584



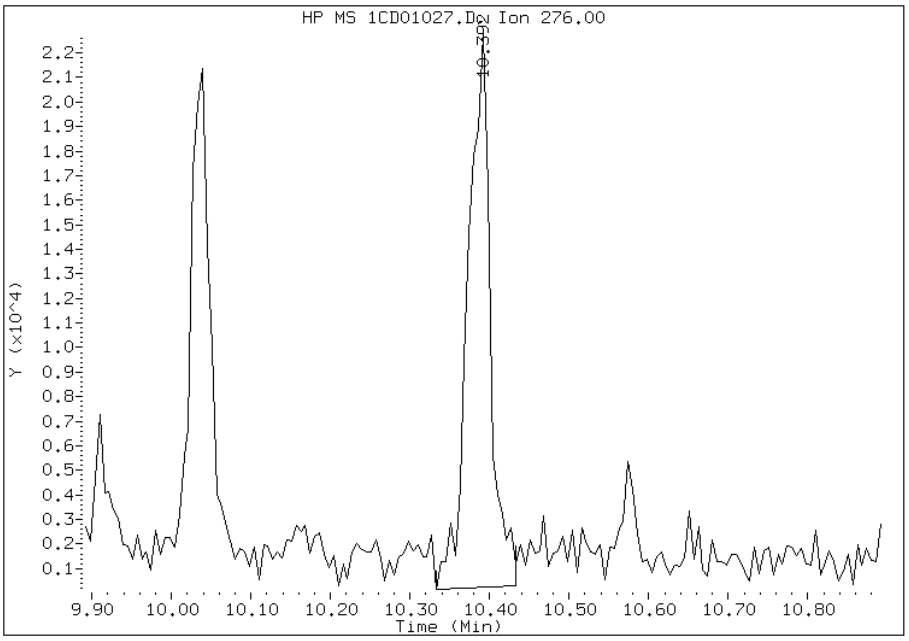
Manual Integration Results

RT: 10.39

Response: 44579

Amount: 2

Conc: 619



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 09:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01027.D
Inj. Date and Time: 01-APR-2013 19:08
Instrument ID: BSMC5973.i
Client ID: CV0197C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

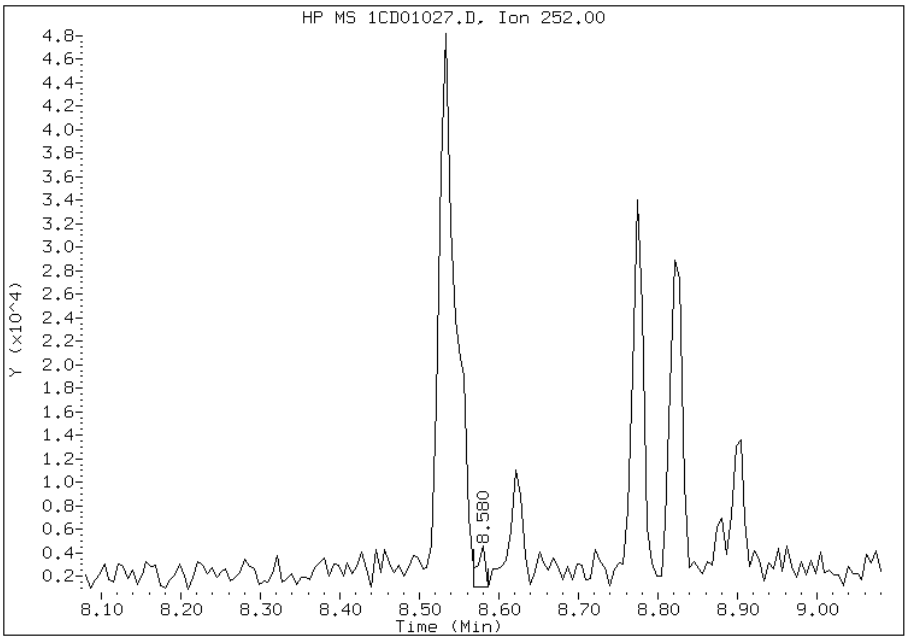
Processing Integration Results

RT: 8.58

Response: 2465

Amount: 0

Conc: 32



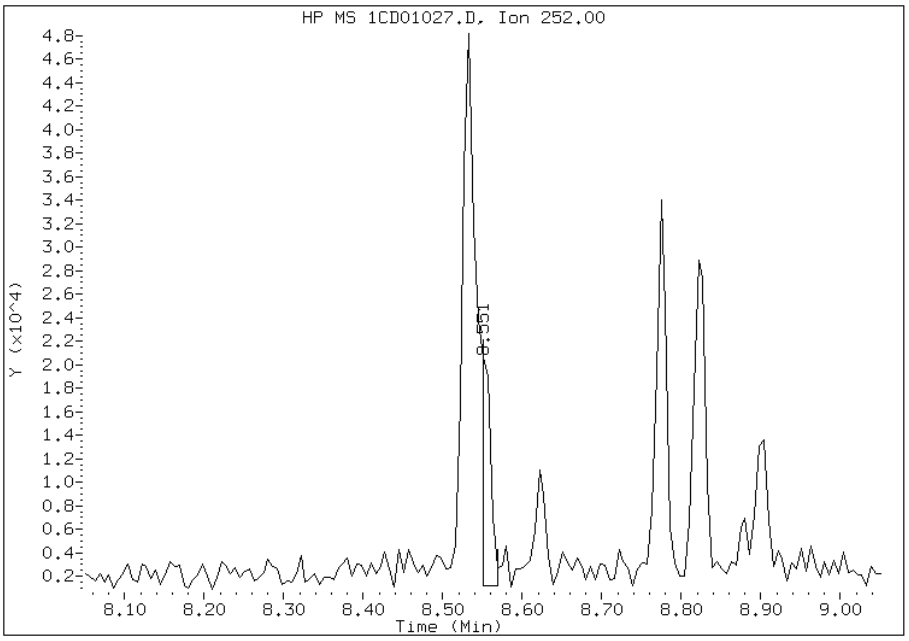
Manual Integration Results

RT: 8.55

Response: 15693

Amount: 1

Conc: 203



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 09:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01027.D
Inj. Date and Time: 01-APR-2013 19:08
Instrument ID: BSMC5973.i
Client ID: CV0197C-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/03/2013

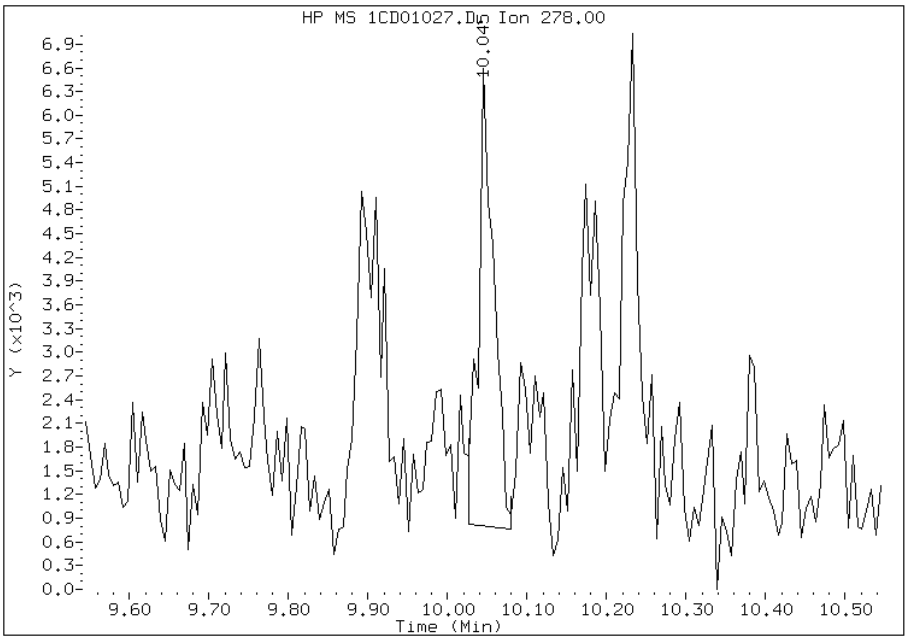
Processing Integration Results

RT: 10.04

Response: 7878

Amount: 0

Conc: 117



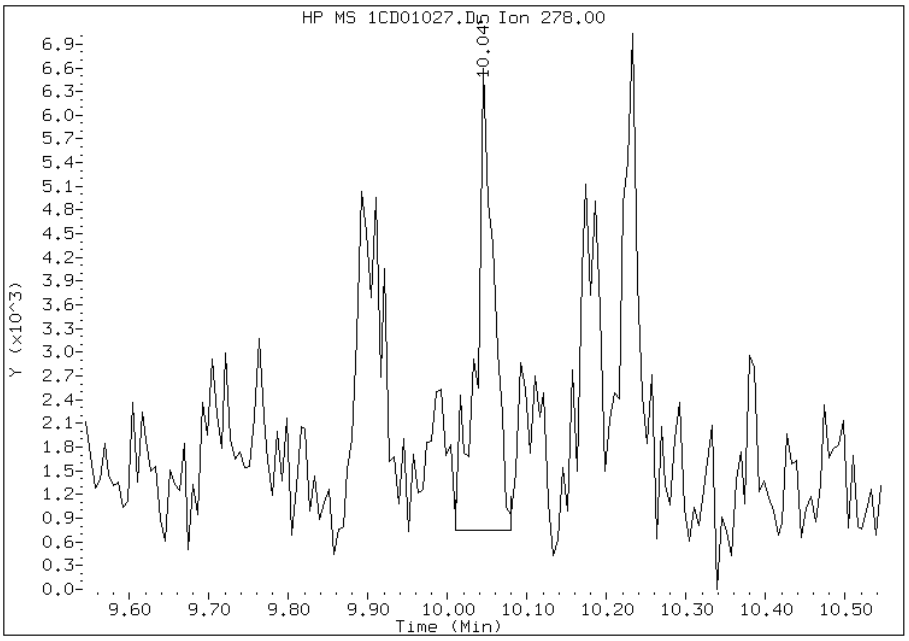
Manual Integration Results

RT: 10.04

Response: 9044

Amount: 0

Conc: 134



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 09:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01027.D
Inj. Date and Time: 01-APR-2013 19:08
Instrument ID: BSMC5973.i
Client ID: CV0197C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

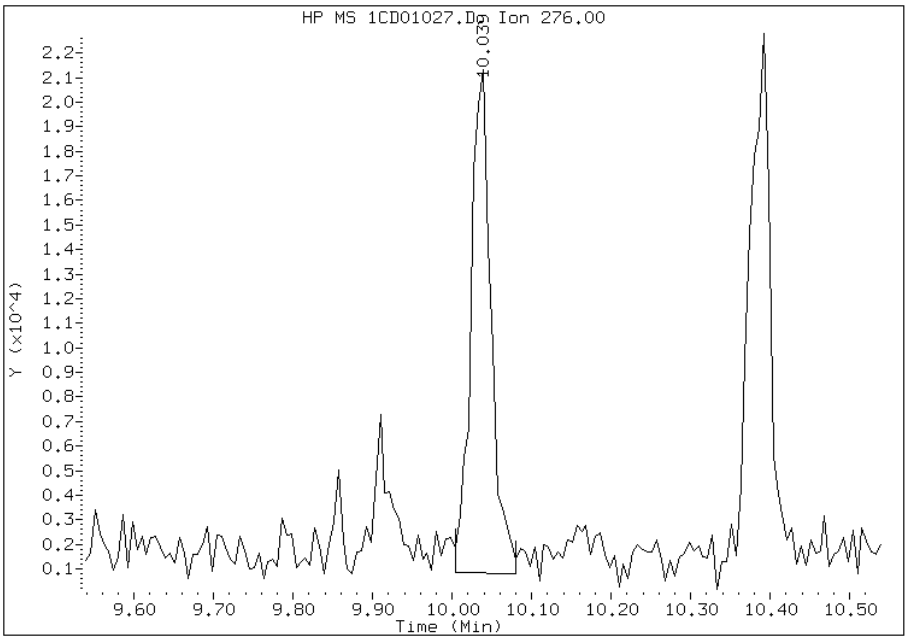
Processing Integration Results

RT: 10.04

Response: 36074

Amount: 1

Conc: 524



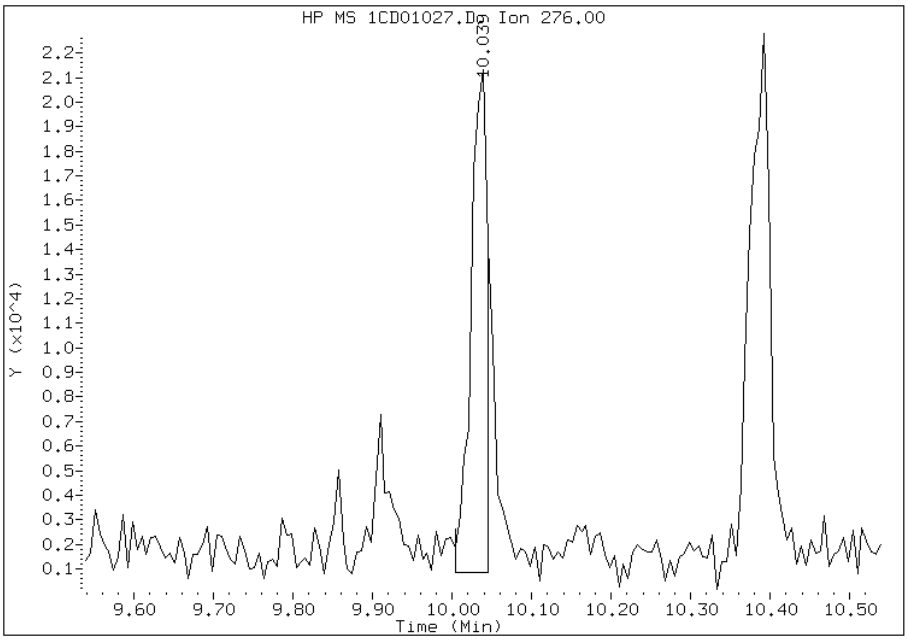
Manual Integration Results

RT: 10.04

Response: 29370

Amount: 1

Conc: 426



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 09:49
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: CV0813A-CS | Lab Sample ID: 680-88632-35

Matrix: Solid | Lab File ID: 1CD01028.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 14:20

Extract. Method: 3546 | Date Extracted: 03/27/2013 15:04

Sample wt/vol: 14.94(g) | Date Analyzed: 04/01/2013 19:26

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

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

% Moisture: 17.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135996 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	97
208-96-8	Acenaphthylene	68	J	190	24
120-12-7	Anthracene	54		41	20
56-55-3	Benzo[a]anthracene	350		39	19
50-32-8	Benzo[a]pyrene	330		51	25
205-99-2	Benzo[b]fluoranthene	600		59	30
191-24-2	Benzo[g,h,i]perylene	370		97	21
207-08-9	Benzo[k]fluoranthene	280		39	18
218-01-9	Chrysene	440		44	22
53-70-3	Dibenz(a,h)anthracene	90	J	97	20
206-44-0	Fluoranthene	630		97	19
86-73-7	Fluorene	23	J	97	20
193-39-5	Indeno[1,2,3-cd]pyrene	250		97	35
90-12-0	1-Methylnaphthalene	120	J	190	21
91-57-6	2-Methylnaphthalene	140	J	190	35
91-20-3	Naphthalene	91	J	190	21
85-01-8	Phenanthrene	490		39	19
129-00-0	Pyrene	570		97	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01028.D
Lab Smp Id: 680-88632-A-35-A Client Smp ID: CV0813A-CS
Inj Date : 01-APR-2013 19:26
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-35-a
Misc Info : 680-88632-A-35-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	14.940	Weight Extracted
M	17.433	% 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	3.715	3.716	(1.000)	642450	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	508385	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	909045	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	27926	2.03468	659.7783
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	968691	40.0000	
* 23 Perylene-d12	264	8.874	8.886	(1.000)	969600	40.0000	
2 Naphthalene	128	3.733	3.733	(1.005)	4676	0.27957	90.6568(Q)
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	4756	0.42630	138.2335
4 1-Methylnaphthalene	142	4.221	4.222	(1.136)	3621	0.35636	115.5569
5 Acenaphthylene	152	4.721	4.716	(0.983)	4272	0.20843	67.5856
9 Fluorene	166	5.151	5.145	(1.072)	1162	0.07212	23.3866(Q)
11 Phenanthrene	178	5.768	5.768	(1.003)	40104	1.52570	494.7354
12 Anthracene	178	5.804	5.804	(1.009)	4272	0.16618	53.8865
13 Carbazole	167	5.909	5.910	(1.028)	3999	0.17500	56.7457(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.604	6.604	(1.148)	55720	1.93567	627.6743
16 Pyrene	202	6.774	6.774	(0.881)	46042	1.76866	573.5169
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	30553	1.09281	354.3609
19 Chrysene	228	7.709	7.715	(1.002)	38065	1.36047	441.1554
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.961)	47124	1.85972	603.0467
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.963)	22494	0.86535	280.6040
22 Benzo(a)pyrene	252	8.815	8.827	(0.993)	25083	1.01911	330.4627
24 Indeno(1,2,3-cd)pyrene	276	10.027	10.039	(1.130)	17941	0.77487	251.2643(M)
25 Dibenzo(a,h)anthracene	278	10.033	10.056	(1.131)	6283	0.27743	89.9601(Q)
26 Benzo(g,h,i)perylene	276	10.374	10.386	(1.169)	27898	1.15183	373.5000

QC Flag Legend

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

Data File: 1CD01028.D

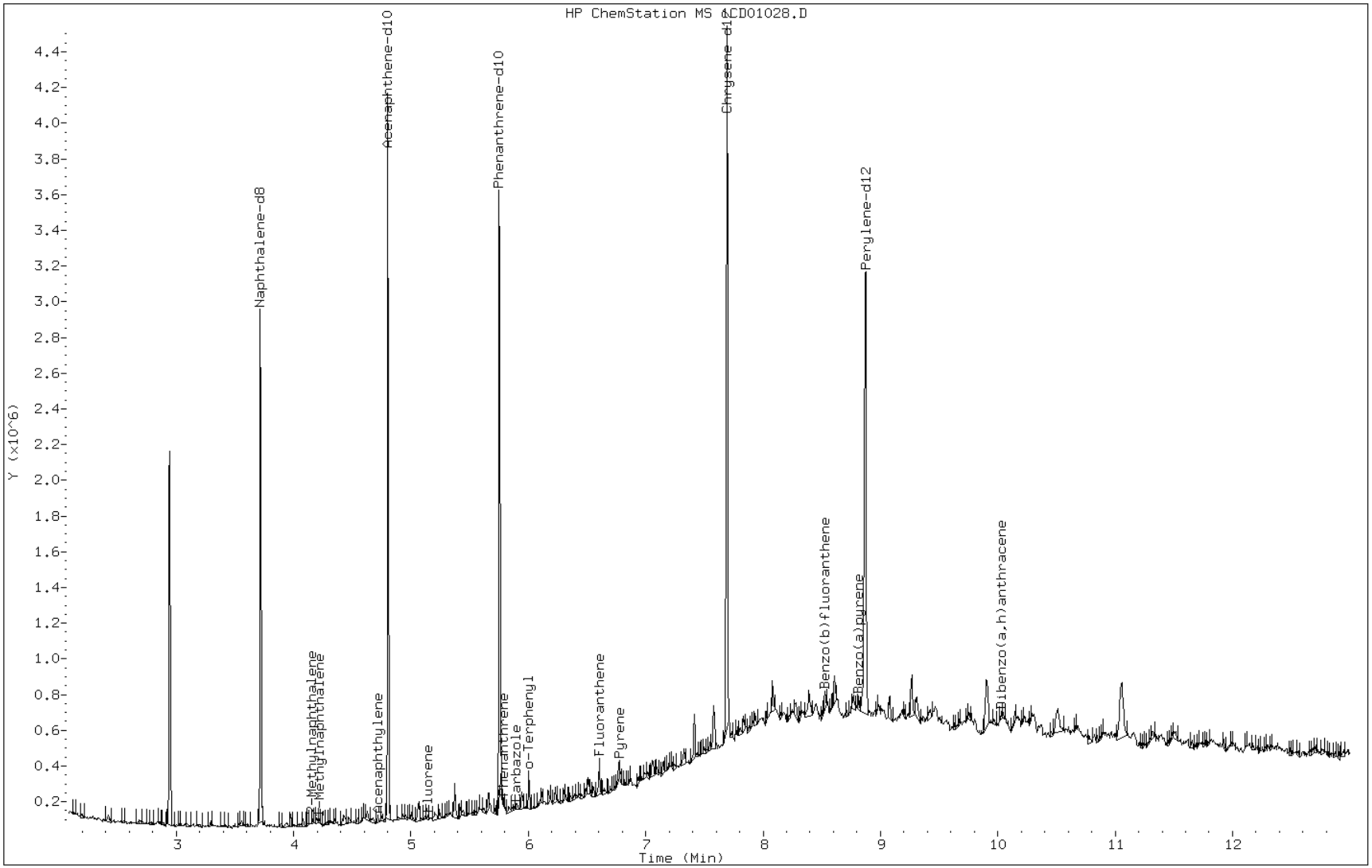
Date: 01-APR-2013 19:26

Client ID: CV0813A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a

Operator: SCC



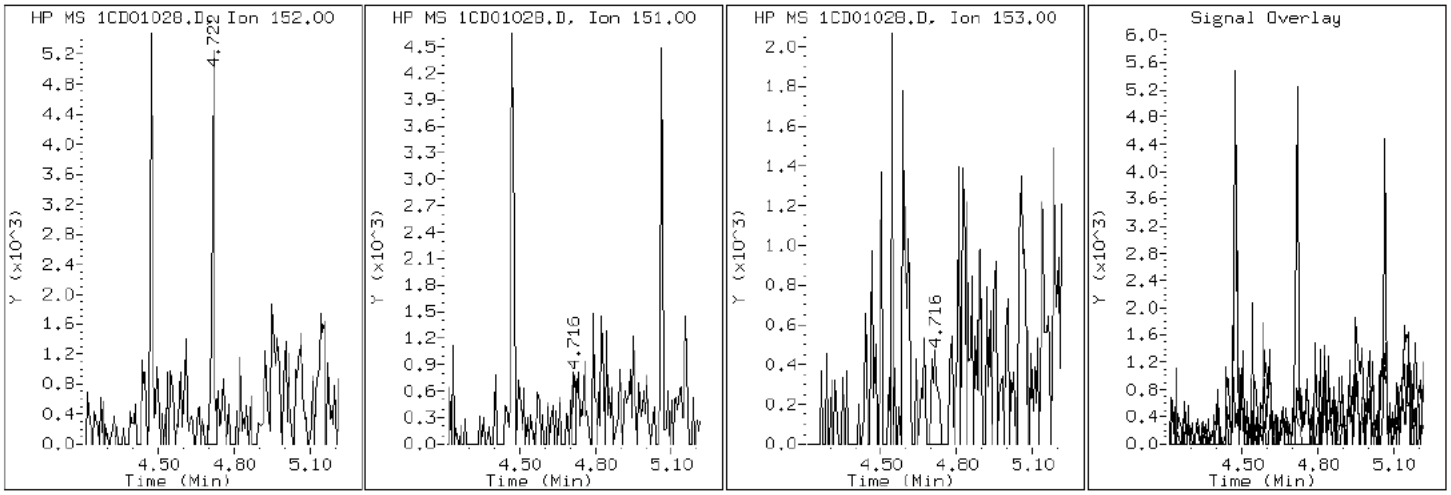
Data File: 1CD01028.D

Date: 01-APR-2013 19:26

Client ID: CV0813A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a Operator: SCC

5 Acenaphthylene



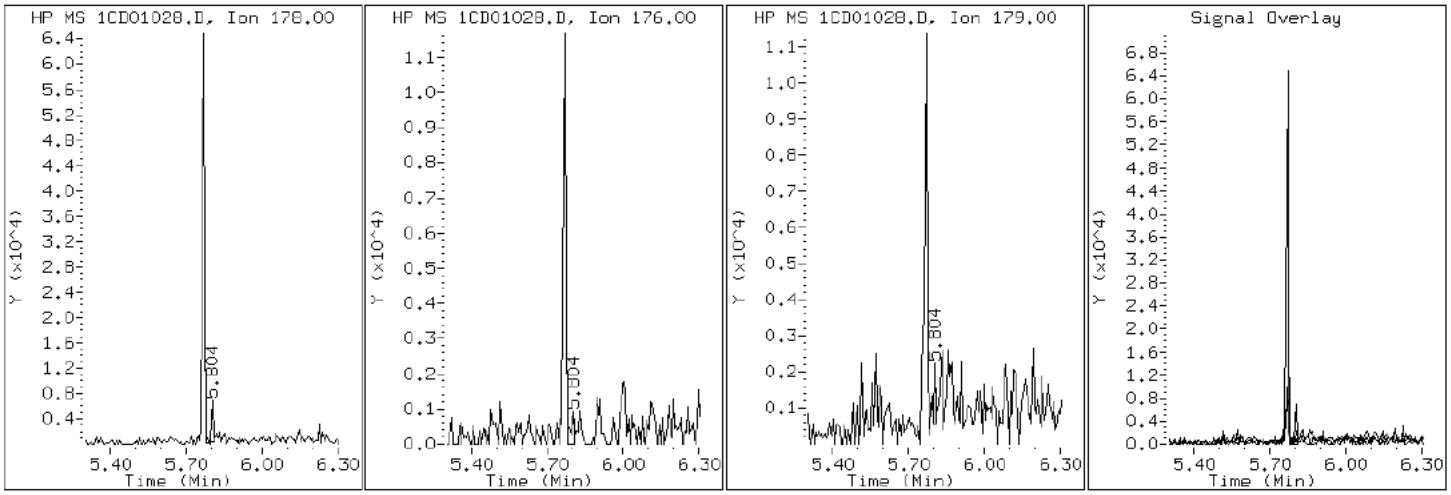
Data File: 1CD01028.D

Date: 01-APR-2013 19:26

Client ID: CV0813A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a Operator: SCC

12 Anthracene



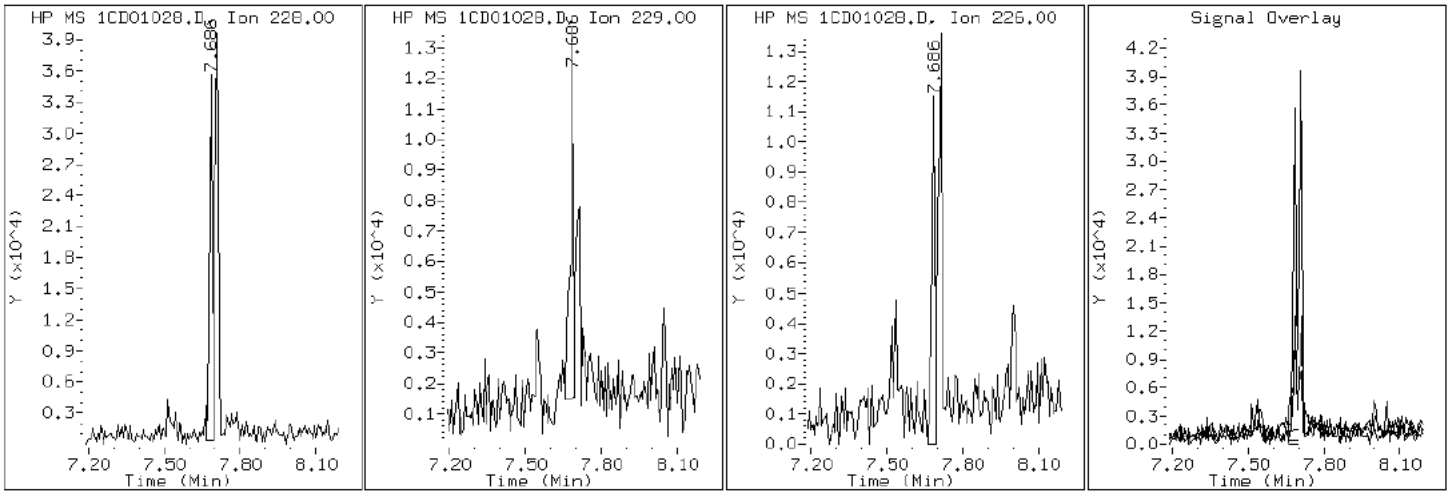
Data File: 1CD01028.D

Date: 01-APR-2013 19:26

Client ID: CV0813A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a Operator: SCC

17 Benzo(a)anthracene



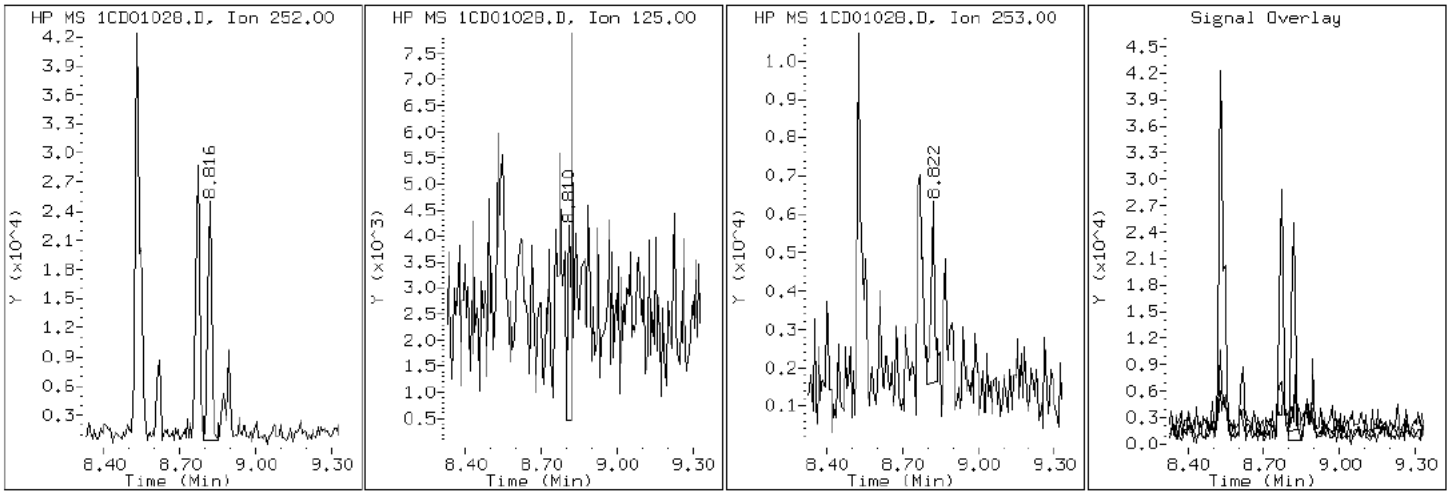
Data File: 1CD01028.D

Date: 01-APR-2013 19:26

Client ID: CV0813A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a Operator: SCC

22 Benzo(a)pyrene



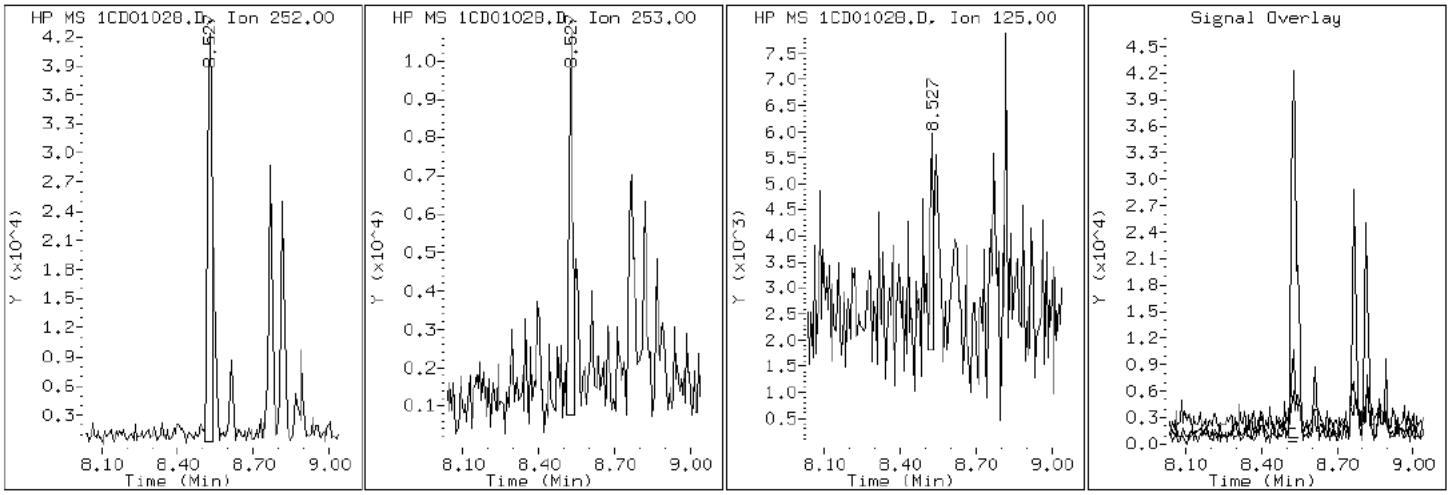
Data File: 1CD01028.D

Date: 01-APR-2013 19:26

Client ID: CV0813A-CS | Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a | Operator: SCC

20 Benzo(b)fluoranthene



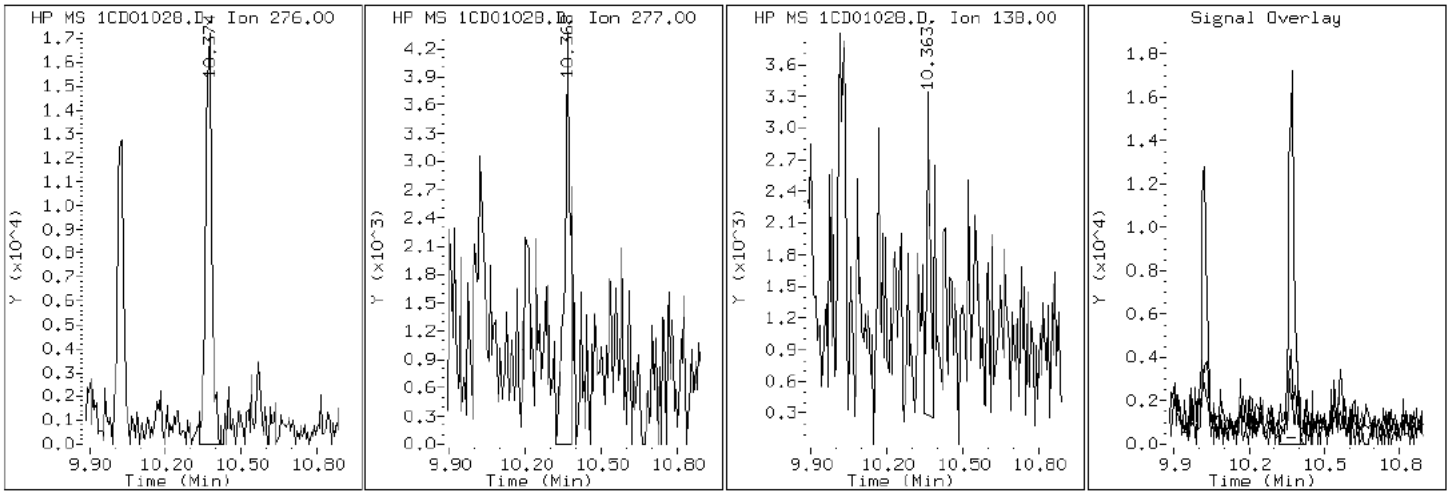
Data File: 1CD01028.D

Date: 01-APR-2013 19:26

Client ID: CV0813A-CS | Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a | Operator: SCC

26 Benzo(g,h,i)perylene



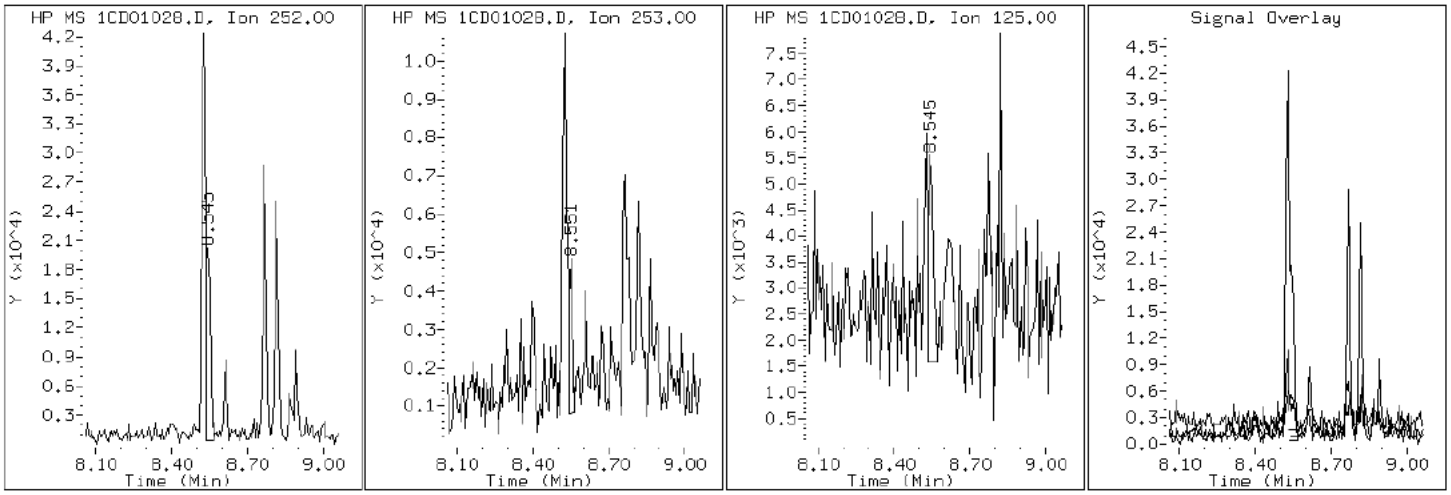
Data File: 1CD01028.D

Date: 01-APR-2013 19:26

Client ID: CV0813A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a Operator: SCC

21 Benzo(k)fluoranthene



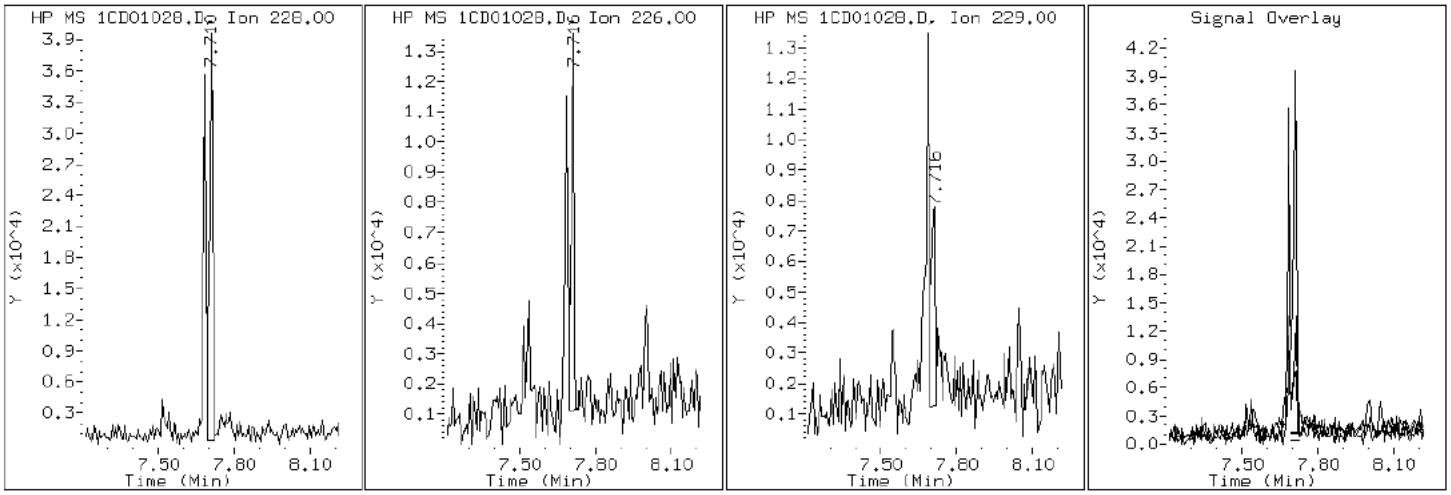
Data File: 1CD01028.D

Date: 01-APR-2013 19:26

Client ID: CV0813A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a Operator: SCC

19 Chrysene



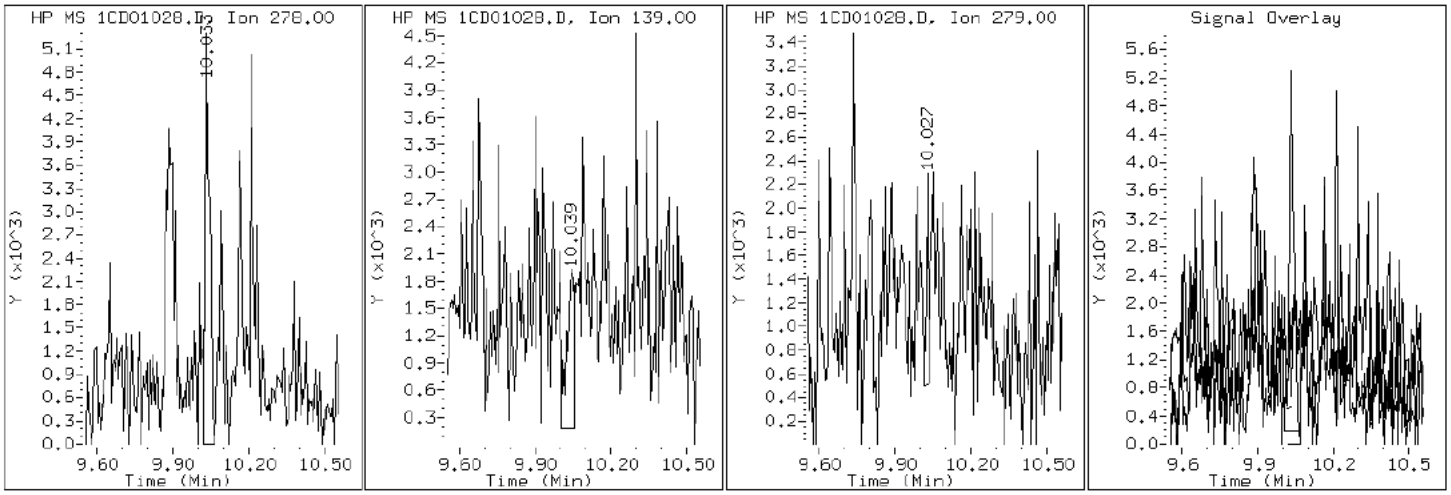
Data File: 1CD01028.D

Date: 01-APR-2013 19:26

Client ID: CV0813A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a Operator: SCC

25 Dibenzo(a,h)anthracene



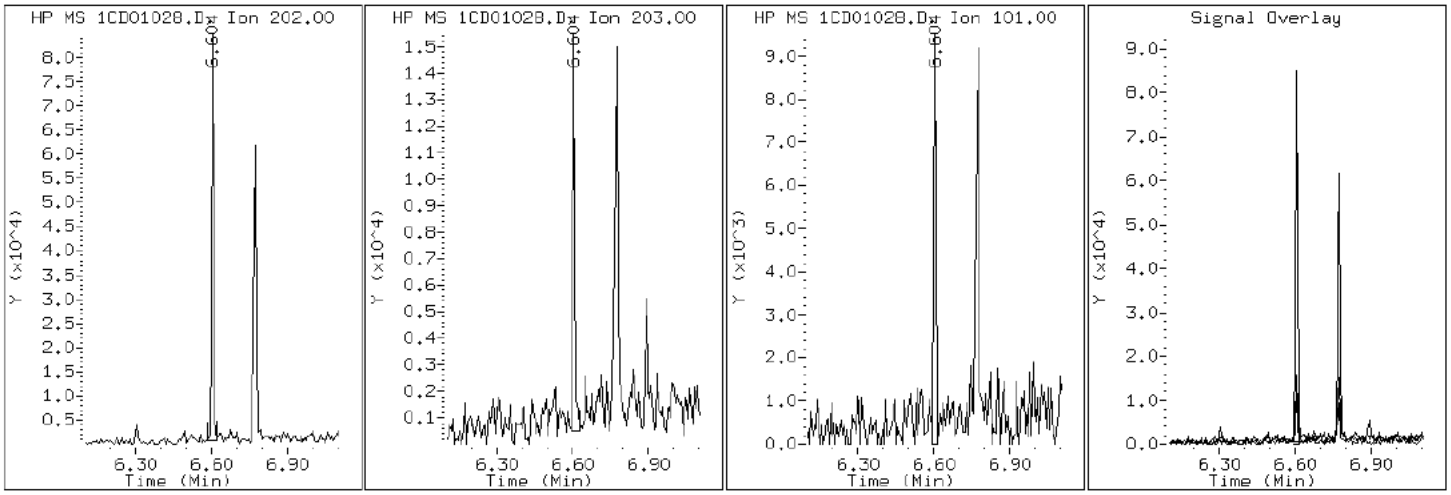
Data File: 1CD01028.D

Date: 01-APR-2013 19:26

Client ID: CV0813A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a Operator: SCC

15 Fluoranthene



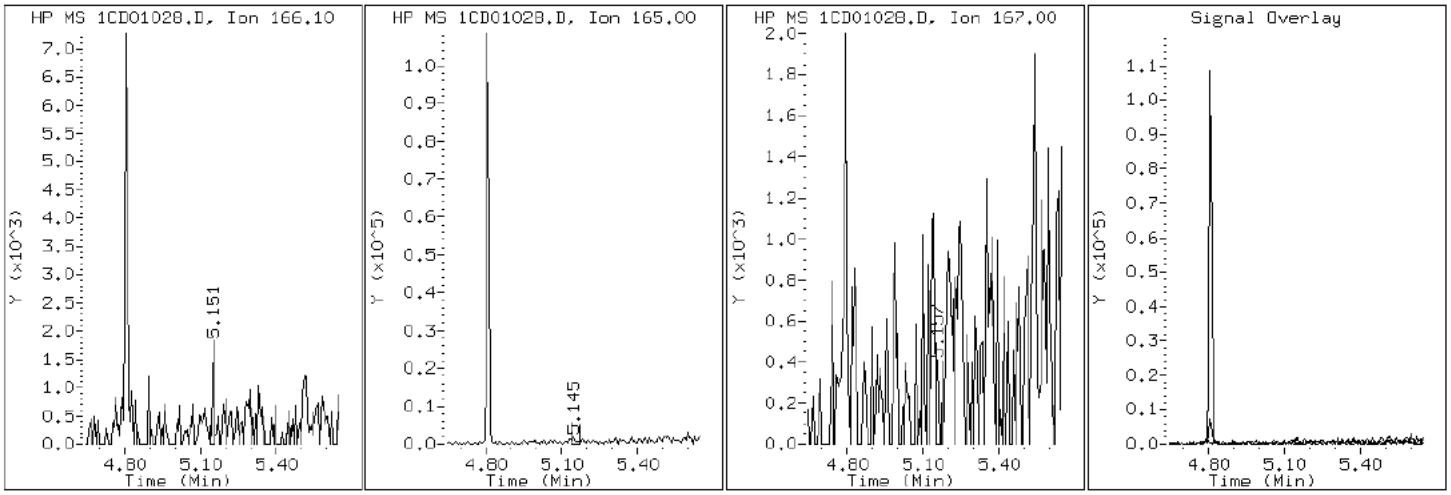
Data File: 1CD01028.D

Date: 01-APR-2013 19:26

Client ID: CV0813A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a Operator: SCC

9 Fluorene



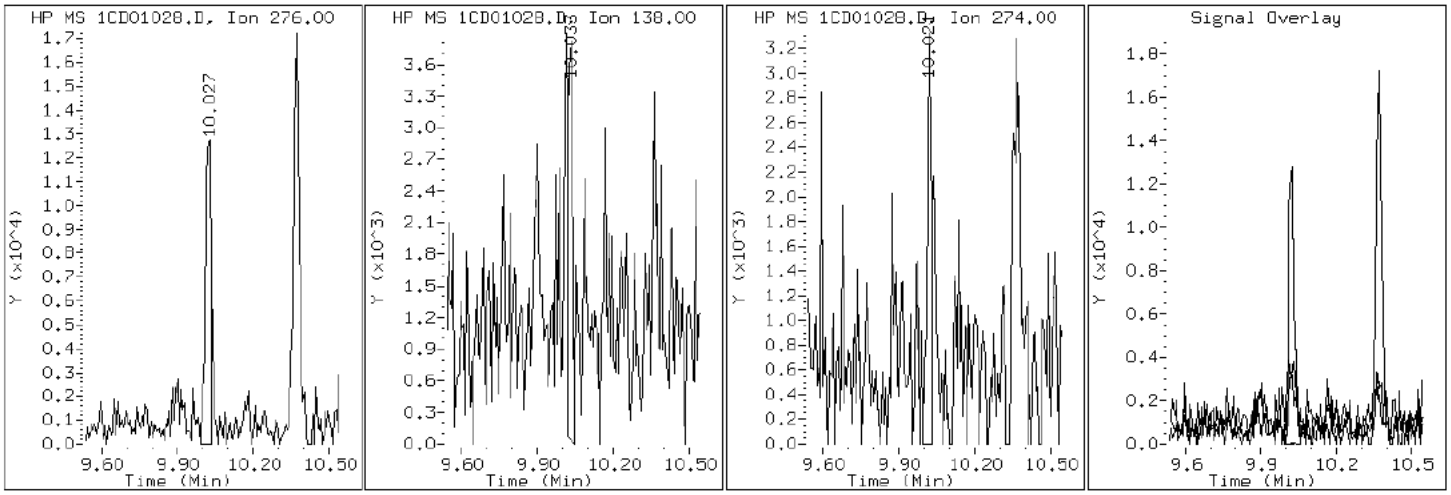
Data File: 1CD01028.D

Date: 01-APR-2013 19:26

Client ID: CV0813A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a Operator: SCC

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



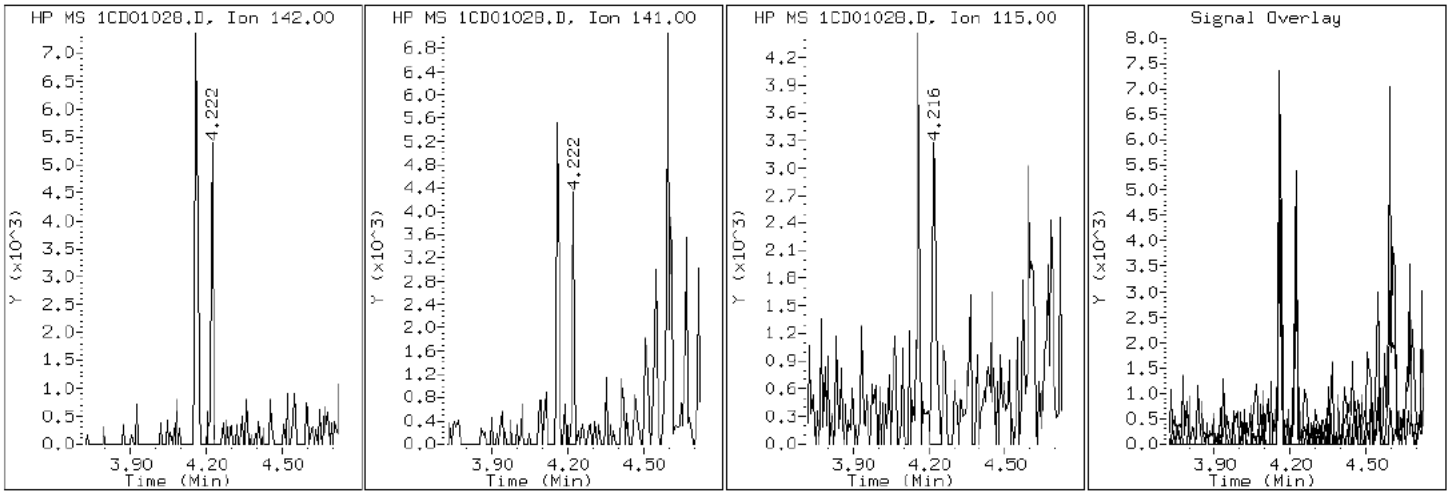
Data File: 1CD01028.D

Date: 01-APR-2013 19:26

Client ID: CV0813A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a Operator: SCC

4 1-Methylnaphthalene



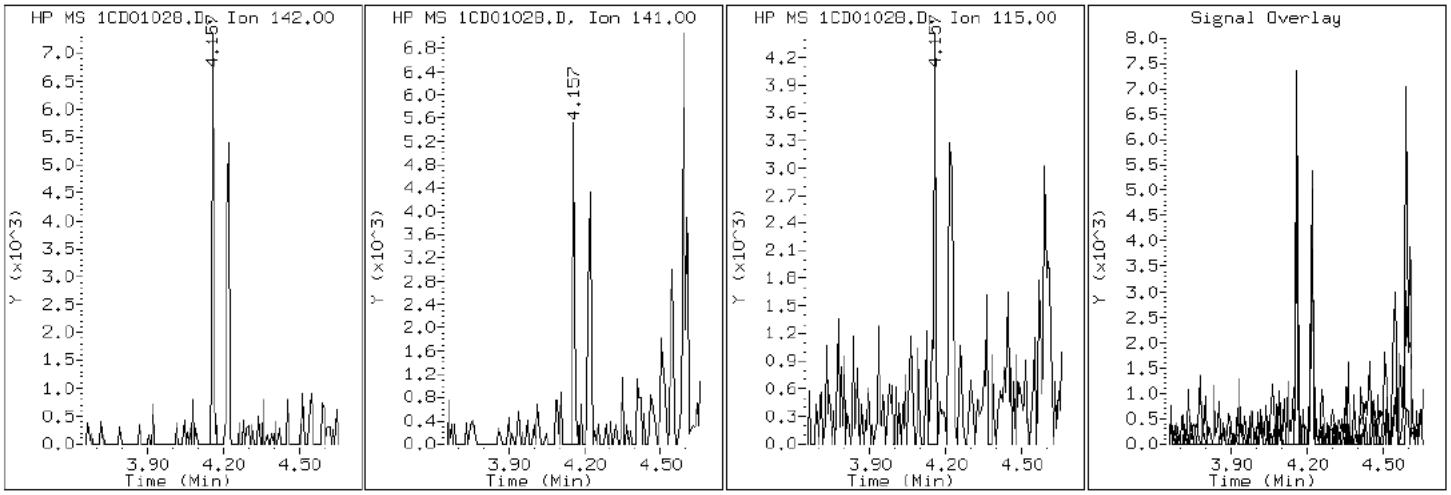
Data File: 1CD01028.D

Date: 01-APR-2013 19:26

Client ID: CV0813A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a Operator: SCC

3 2-Methylnaphthalene



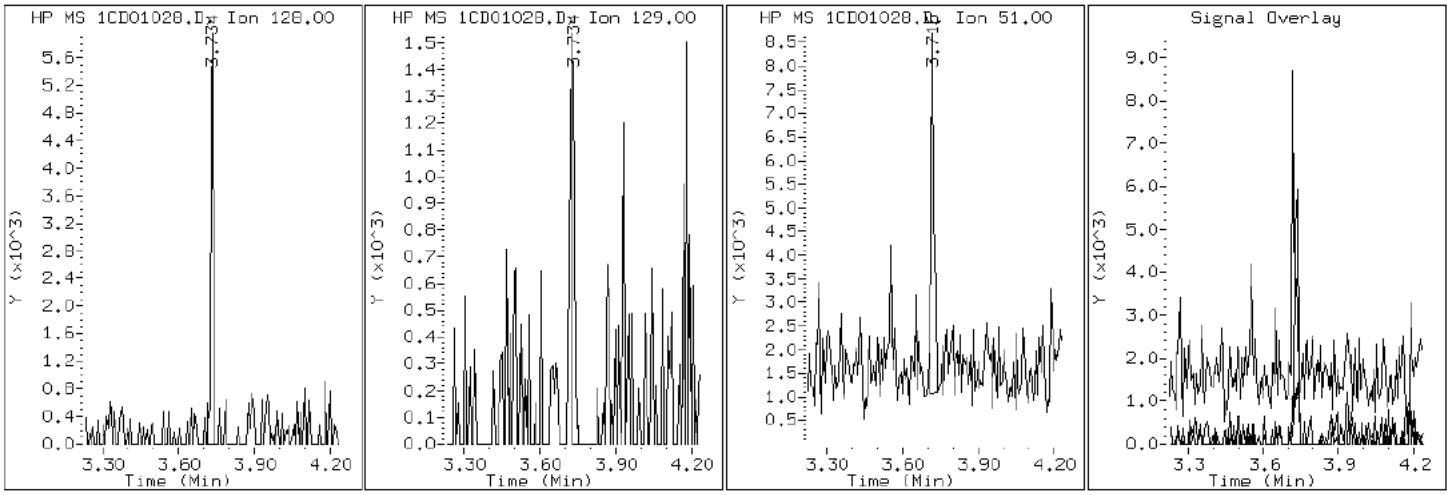
Data File: 1CD01028.D

Date: 01-APR-2013 19:26

Client ID: CV0813A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a Operator: SCC

2 Naphthalene



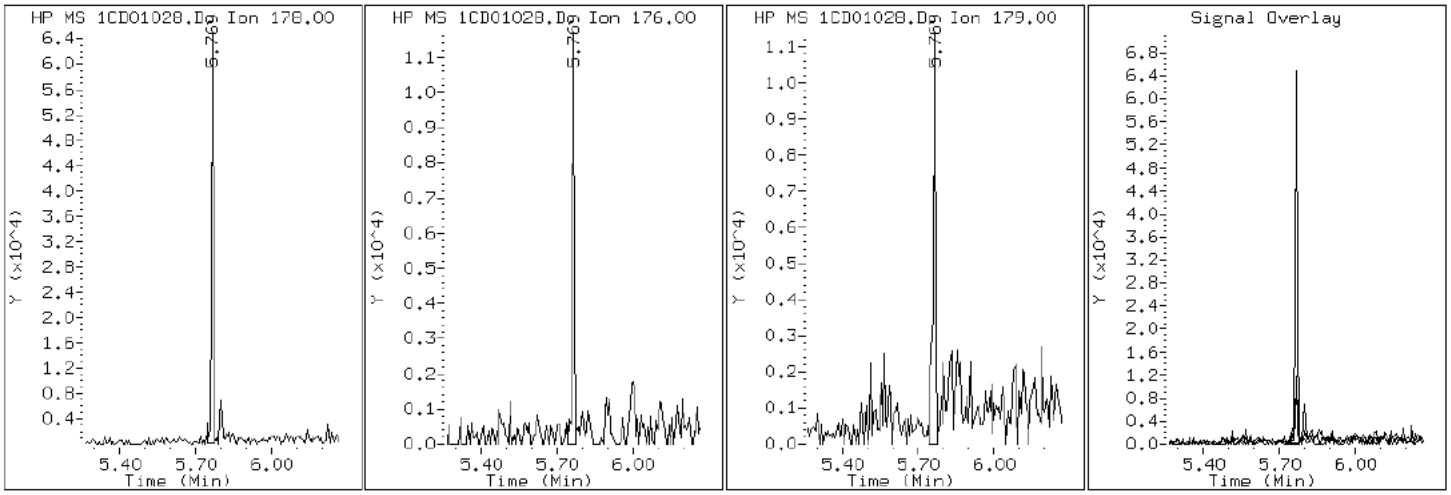
Data File: 1CD01028.D

Date: 01-APR-2013 19:26

Client ID: CV0813A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a Operator: SCC

11 Phenanthrene



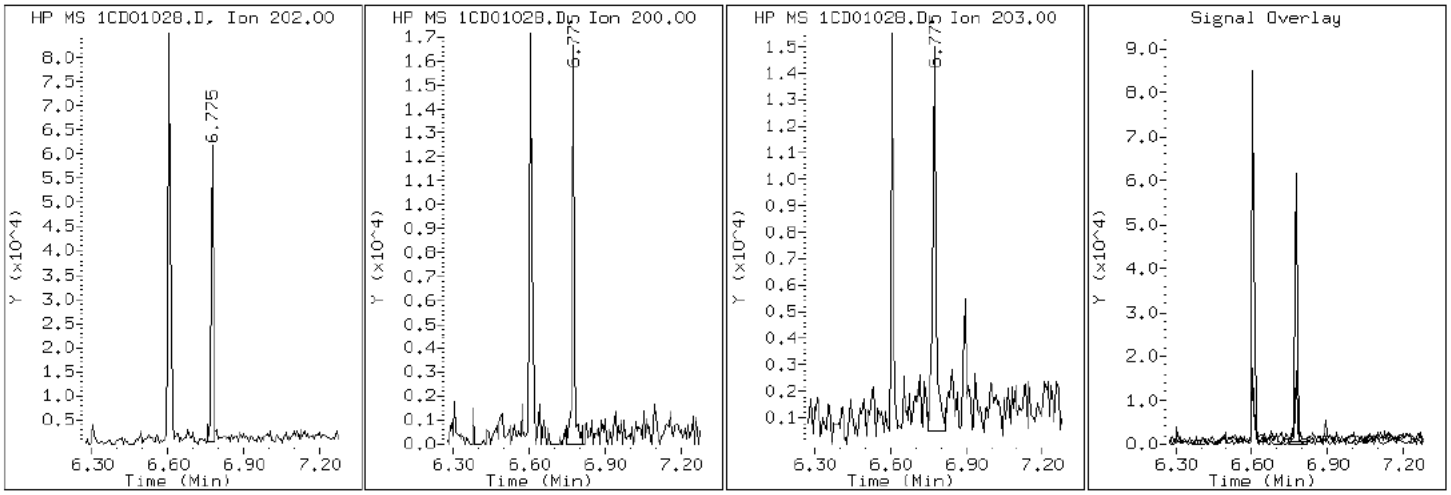
Data File: 1CD01028.D

Date: 01-APR-2013 19:26

Client ID: CV0813A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-35-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD01028.D
Inj. Date and Time: 01-APR-2013 19:26
Instrument ID: BSMC5973.i
Client ID: CV0813A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

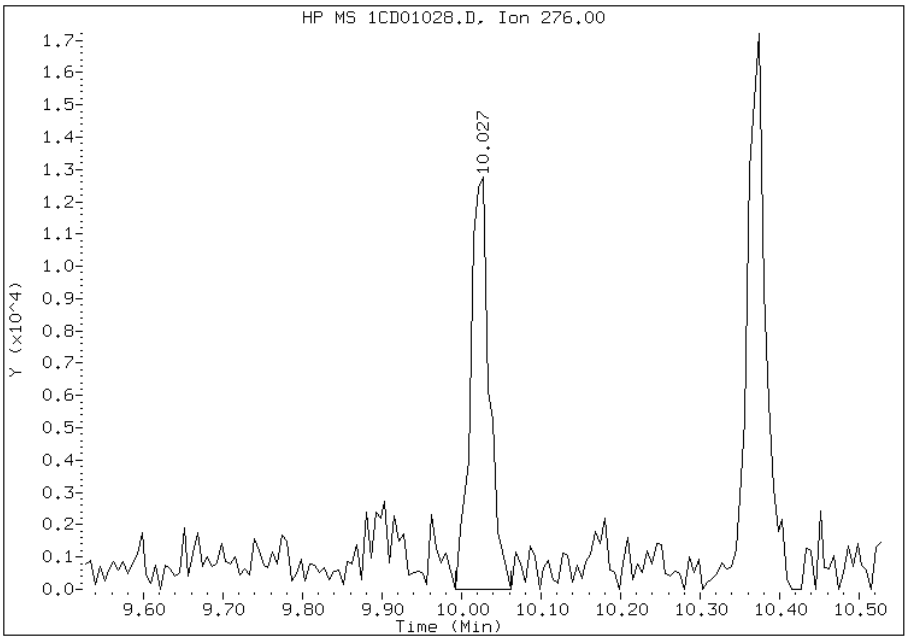
Processing Integration Results

RT: 10.03

Response: 21047

Amount: 1

Conc: 295



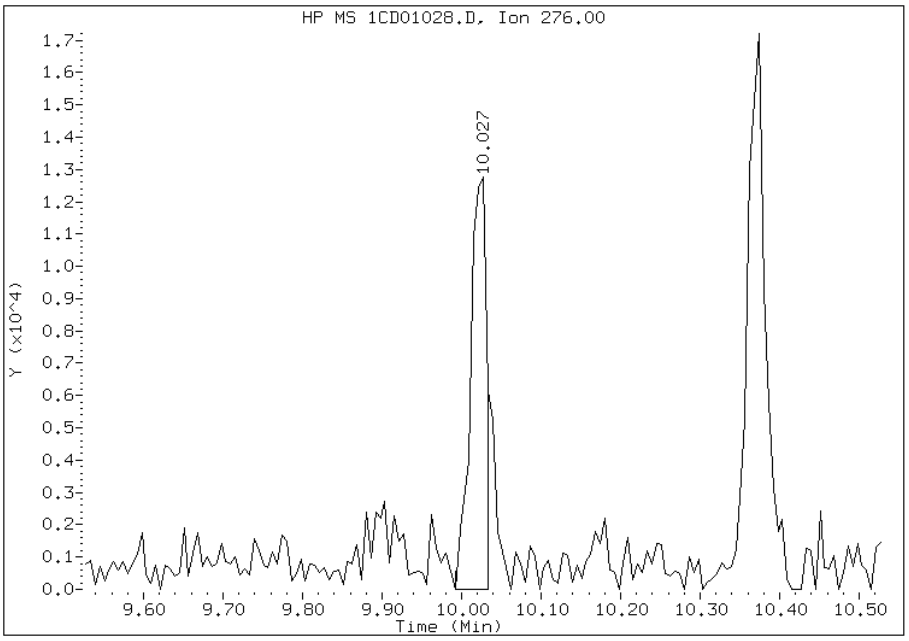
Manual Integration Results

RT: 10.03

Response: 17941

Amount: 1

Conc: 251



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: CV0813B-CS | Lab Sample ID: 680-88632-36

Matrix: Solid | Lab File ID: 1CD01029.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 14:30

Extract. Method: 3546 | Date Extracted: 03/27/2013 15:04

Sample wt/vol: 15.22(g) | Date Analyzed: 04/01/2013 19:44

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

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

% Moisture: 22.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135996 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	59	J	200	25
120-12-7	Anthracene	94		42	21
56-55-3	Benzo[a]anthracene	390		40	20
50-32-8	Benzo[a]pyrene	340		53	26
205-99-2	Benzo[b]fluoranthene	630		62	31
191-24-2	Benzo[g,h,i]perylene	350		100	22
207-08-9	Benzo[k]fluoranthene	170		40	18
218-01-9	Chrysene	440		46	23
53-70-3	Dibenz(a,h)anthracene	77	J	100	21
206-44-0	Fluoranthene	690		100	20
86-73-7	Fluorene	45	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	250		100	36
90-12-0	1-Methylnaphthalene	340		200	22
91-57-6	2-Methylnaphthalene	420		200	36
91-20-3	Naphthalene	300		200	22
85-01-8	Phenanthrene	630		40	20
129-00-0	Pyrene	650		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01029.D
Lab Smp Id: 680-88632-A-36-A Client Smp ID: CV0813B-CS
Inj Date : 01-APR-2013 19:44
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-36-a
Misc Info : 680-88632-A-36-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 29
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.220	Weight Extracted
M	22.037	% 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	3.716	3.716	(1.000)	739349	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	592733	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	1033940	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	24553	1.57283	530.1964
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1146456	40.0000	
* 23 Perylene-d12	264	8.874	8.886	(1.000)	1063392	40.0000	
2 Naphthalene	128	3.733	3.733	(1.005)	17370	0.90243	304.2065(Q)
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	15870	1.23605	416.6691
4 1-Methylnaphthalene	142	4.222	4.222	(1.136)	11629	0.99448	335.2374
5 Acenaphthylene	152	4.722	4.716	(0.983)	4168	0.17441	58.7946
9 Fluorene	166	5.151	5.145	(1.072)	2487	0.13239	44.6296(Q)
11 Phenanthrene	178	5.769	5.768	(1.003)	56207	1.88002	633.7509
12 Anthracene	178	5.804	5.804	(1.009)	8147	0.27863	93.9268
13 Carbazole	167	5.910	5.910	(1.028)	8476	0.32611	109.9298

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.604	6.604	(1.148)	67259	2.05429	692.4949
16 Pyrene	202	6.774	6.774	(0.881)	59706	1.93792	653.2671
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	38367	1.15951	390.8683
19 Chrysene	228	7.715	7.715	(1.003)	43698	1.31963	444.8444
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.961)	52259	1.88047	633.9018(M)
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.963)	14634	0.51332	173.0383(QMH)
22 Benzo(a)pyrene	252	8.815	8.827	(0.993)	27353	1.01332	341.5860
24 Indeno(1,2,3-cd)pyrene	276	10.027	10.039	(1.130)	19196	0.75595	254.8279(M)
25 Dibenzo(a,h)anthracene	278	10.045	10.056	(1.132)	5709	0.22985	77.4809
26 Benzo(g,h,i)perylene	276	10.374	10.386	(1.169)	27579	1.03823	349.9840

QC Flag Legend

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

Data File: 1CD01029.D

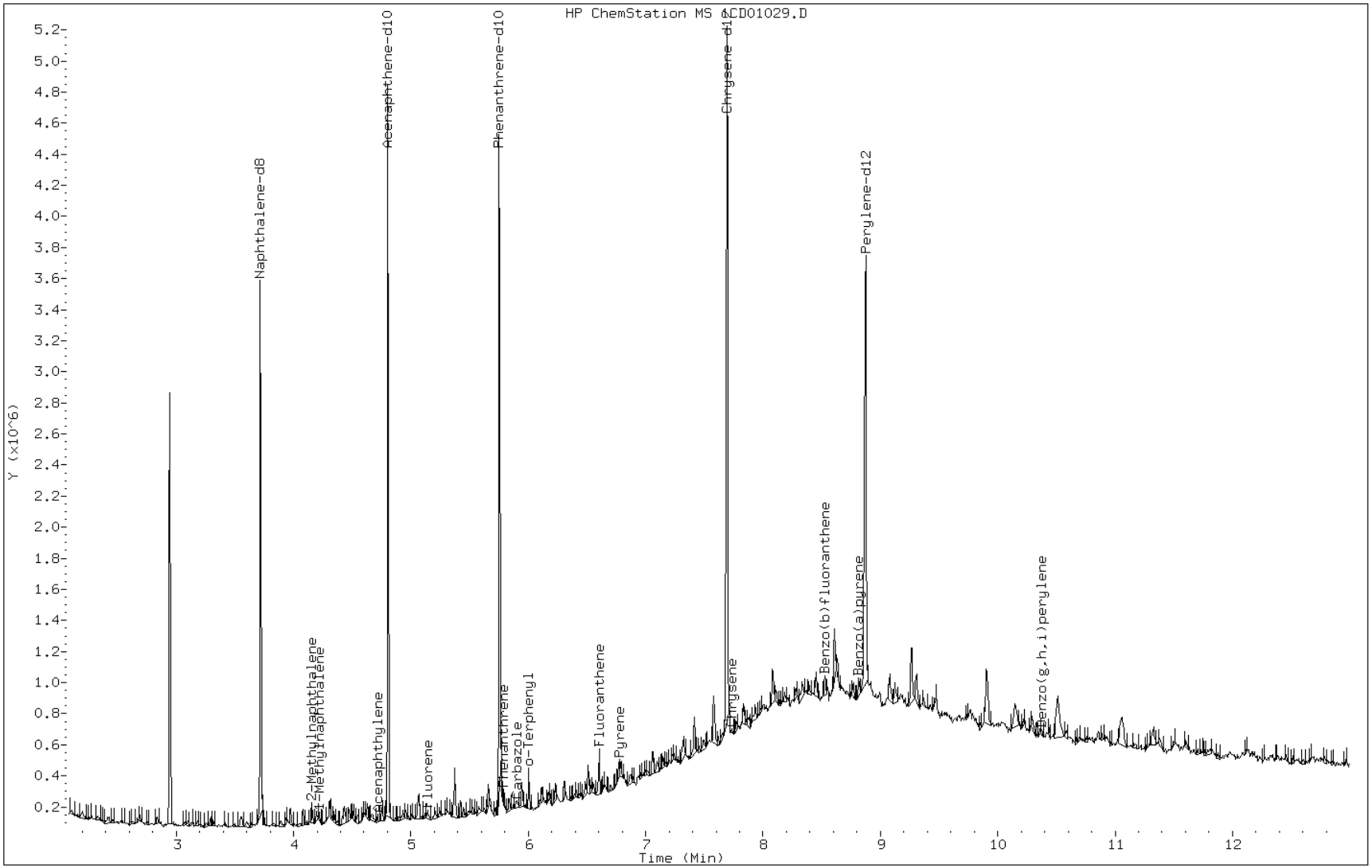
Date: 01-APR-2013 19:44

Client ID: CV0813B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a

Operator: SCC



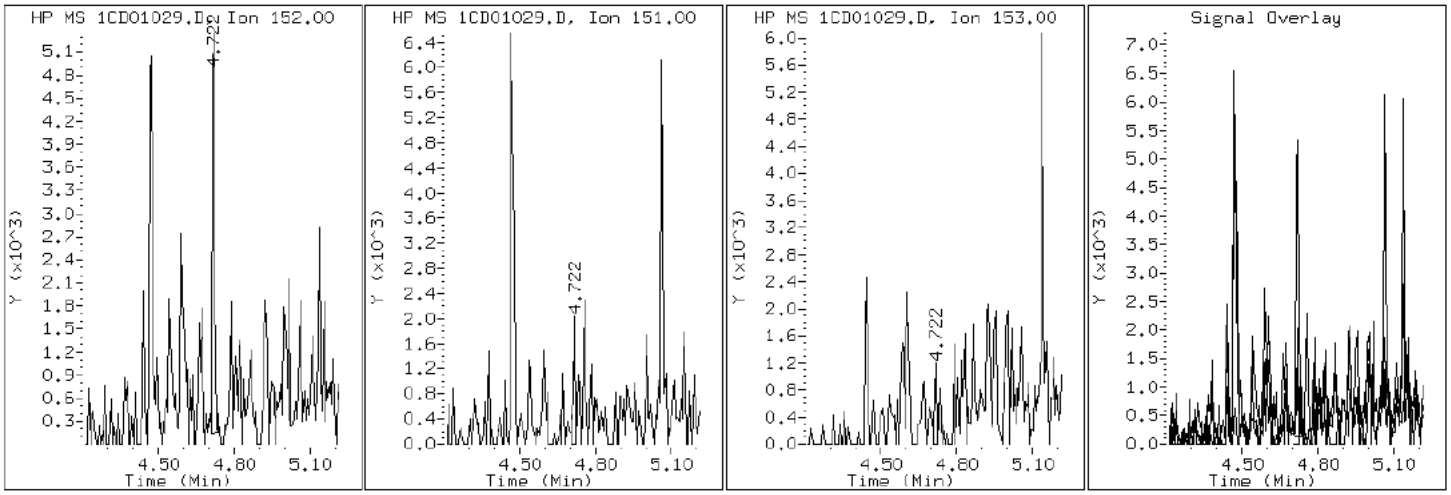
Data File: 1CD01029.D

Date: 01-APR-2013 19:44

Client ID: CV0813B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a Operator: SCC

5 Acenaphthylene



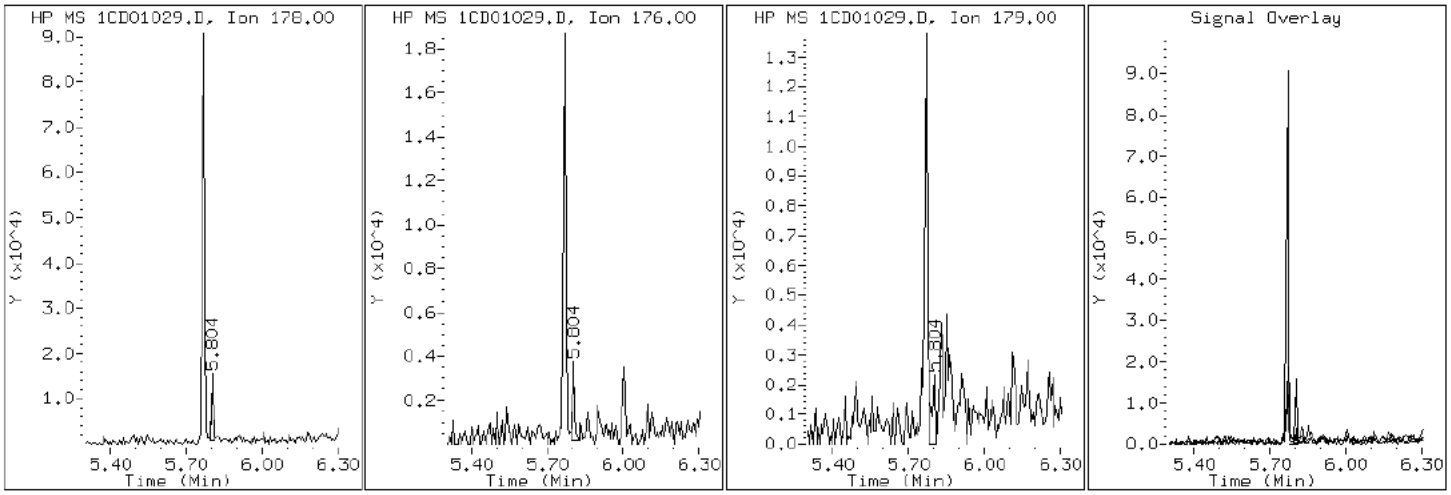
Data File: 1CD01029.D

Date: 01-APR-2013 19:44

Client ID: CV0813B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a Operator: SCC

12 Anthracene



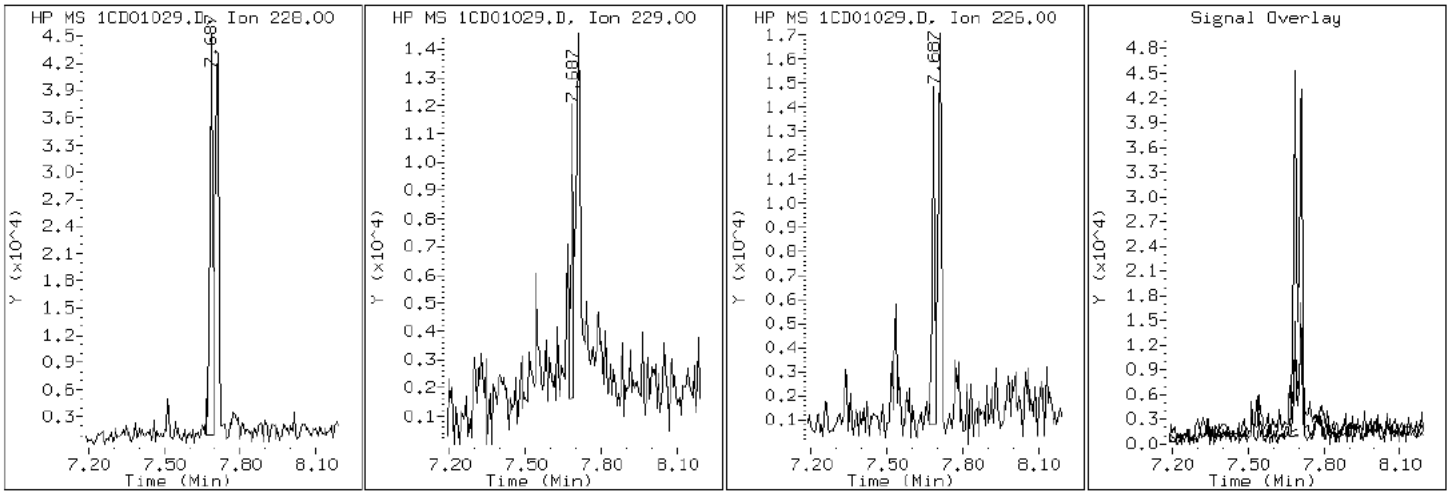
Data File: 1CD01029.D

Date: 01-APR-2013 19:44

Client ID: CV0813B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a Operator: SCC

17 Benzo(a)anthracene



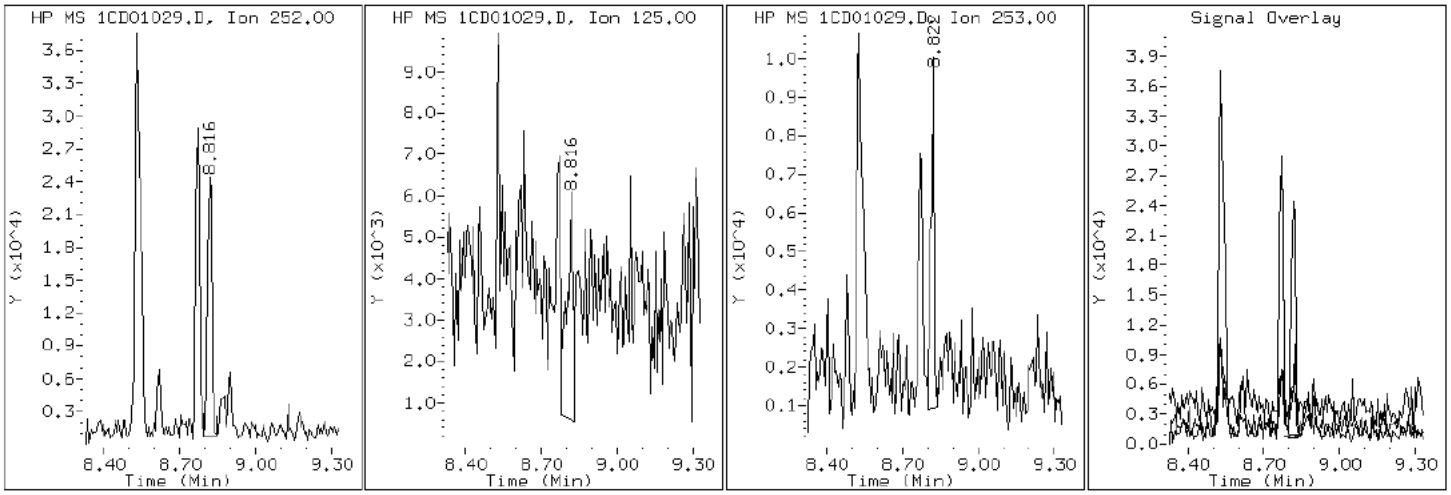
Data File: 1CD01029.D

Date: 01-APR-2013 19:44

Client ID: CV0813B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a Operator: SCC

22 Benzo(a)pyrene



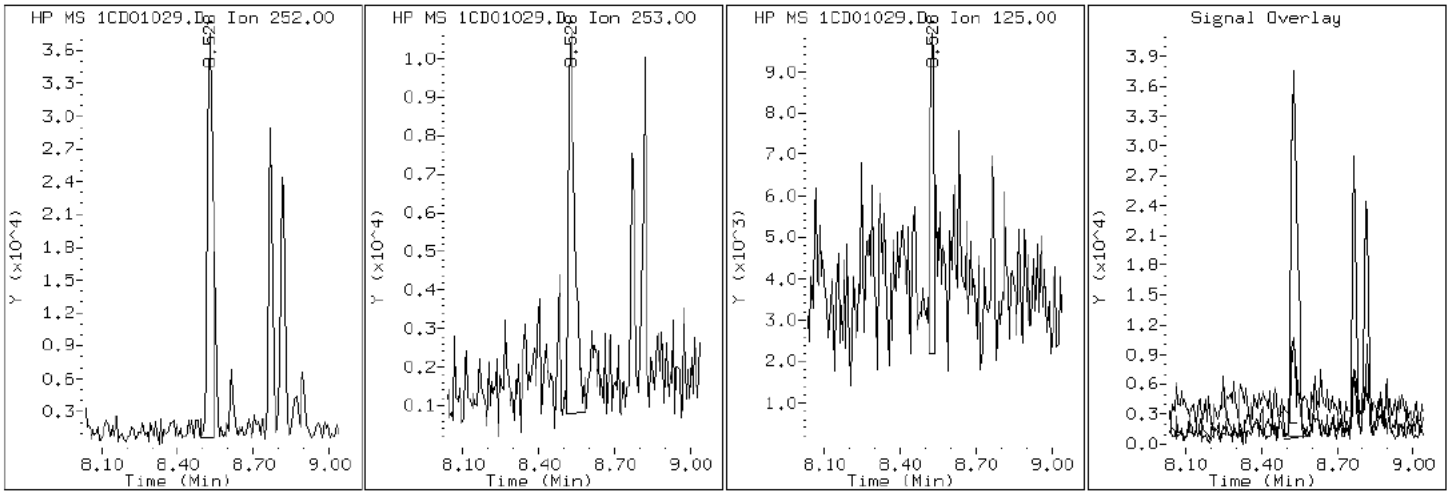
Data File: 1CD01029.D

Date: 01-APR-2013 19:44

Client ID: CV0813B-CS | Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a | Operator: SCC

20 Benzo(b)fluoranthene



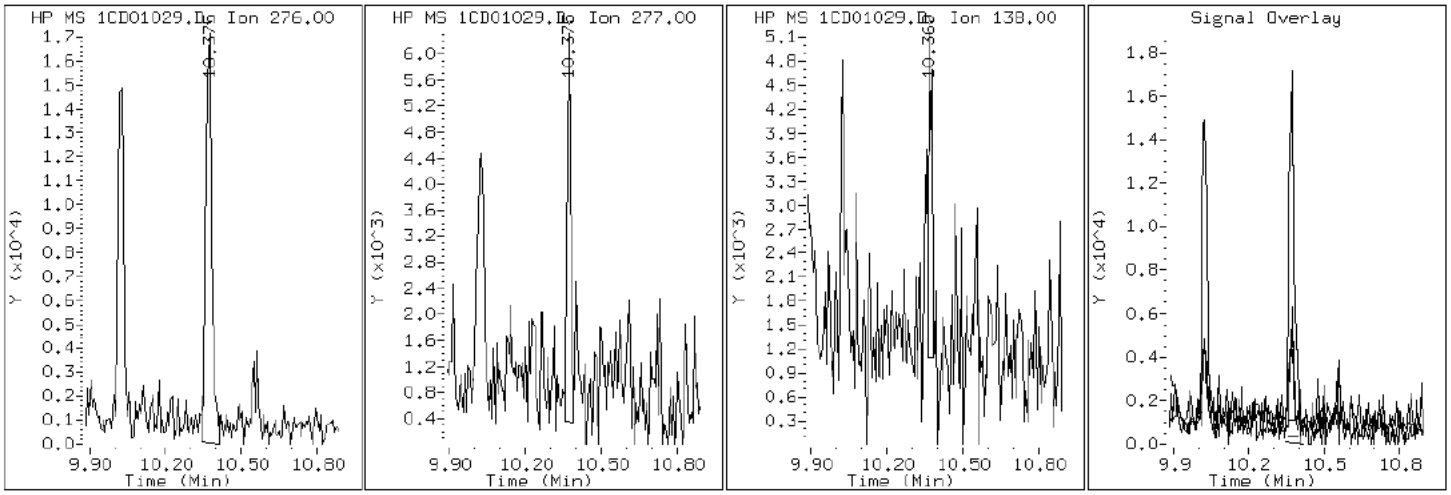
Data File: 1CD01029.D

Date: 01-APR-2013 19:44

Client ID: CV0813B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a Operator: SCC

26 Benzo(g,h,i)perylene



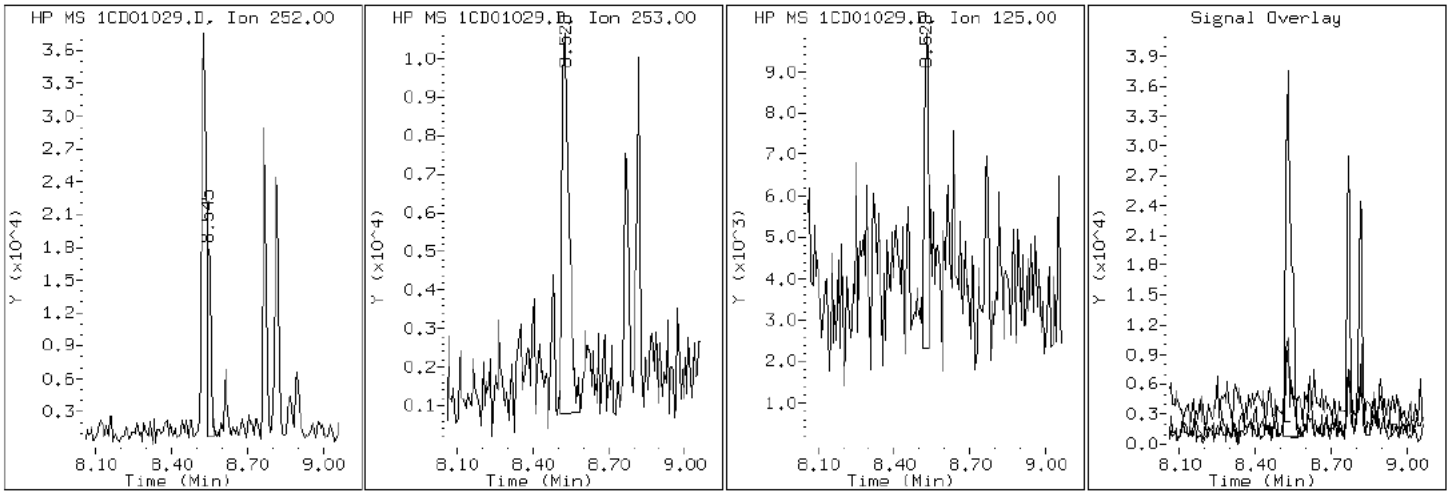
Data File: 1CD01029.D

Date: 01-APR-2013 19:44

Client ID: CV0813B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a Operator: SCC

21 Benzo(k)fluoranthene



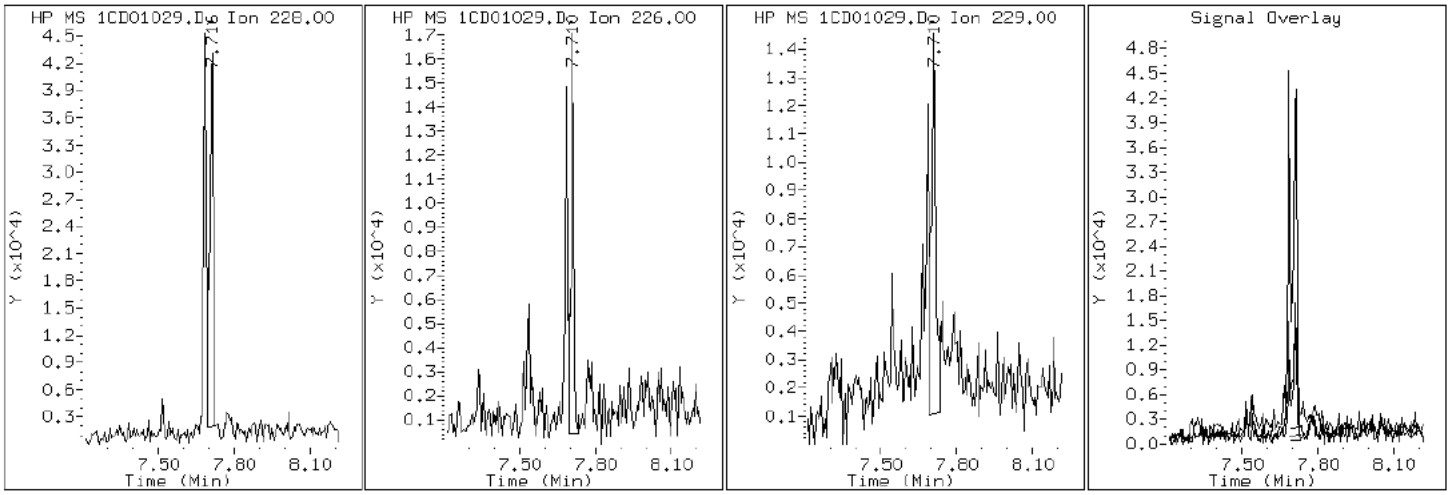
Data File: 1CD01029.D

Date: 01-APR-2013 19:44

Client ID: CV0813B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a Operator: SCC

19 Chrysene



Data File: 1CD01029.D

Date: 01-APR-2013 19:44

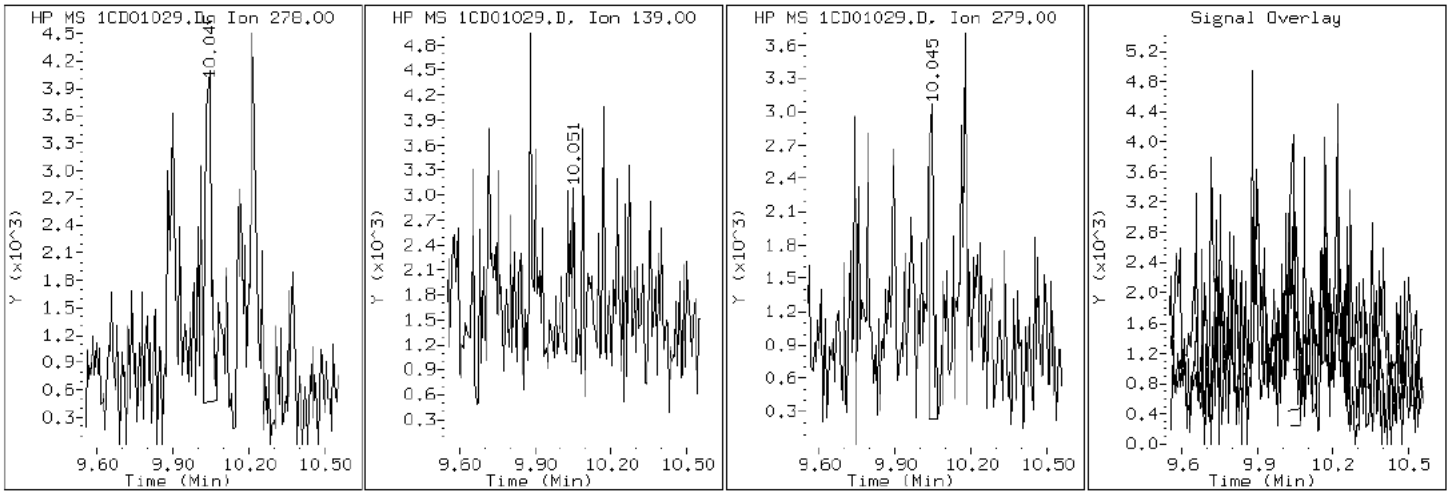
Client ID: CV0813B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a

Operator: SCC

25 Dibenzo(a,h)anthracene



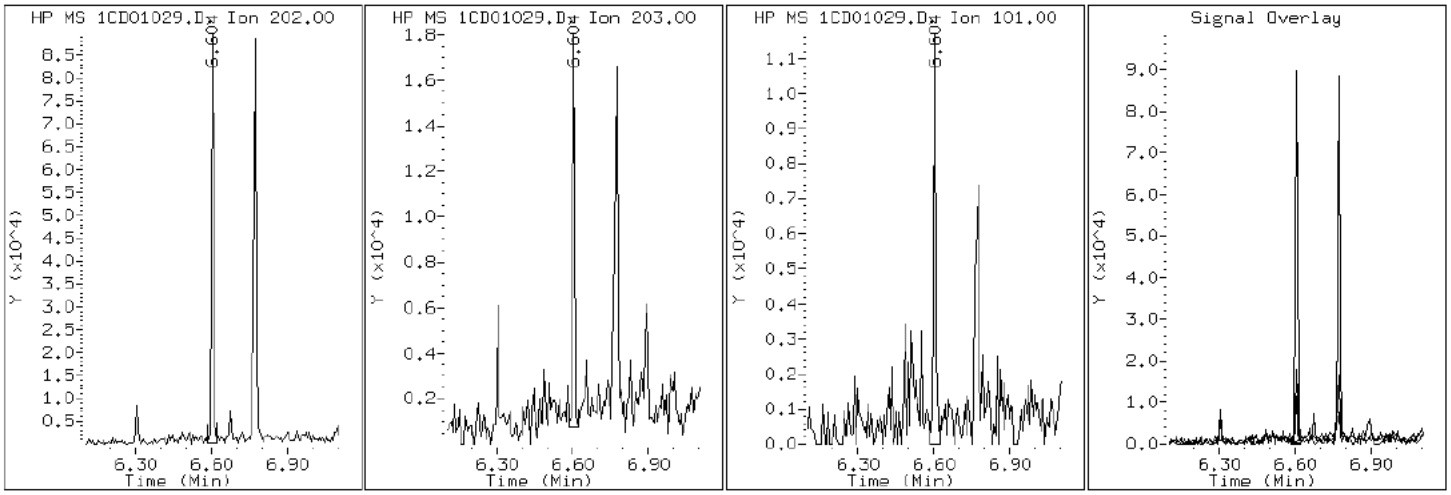
Data File: 1CD01029.D

Date: 01-APR-2013 19:44

Client ID: CV0813B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a Operator: SCC

15 Fluoranthene



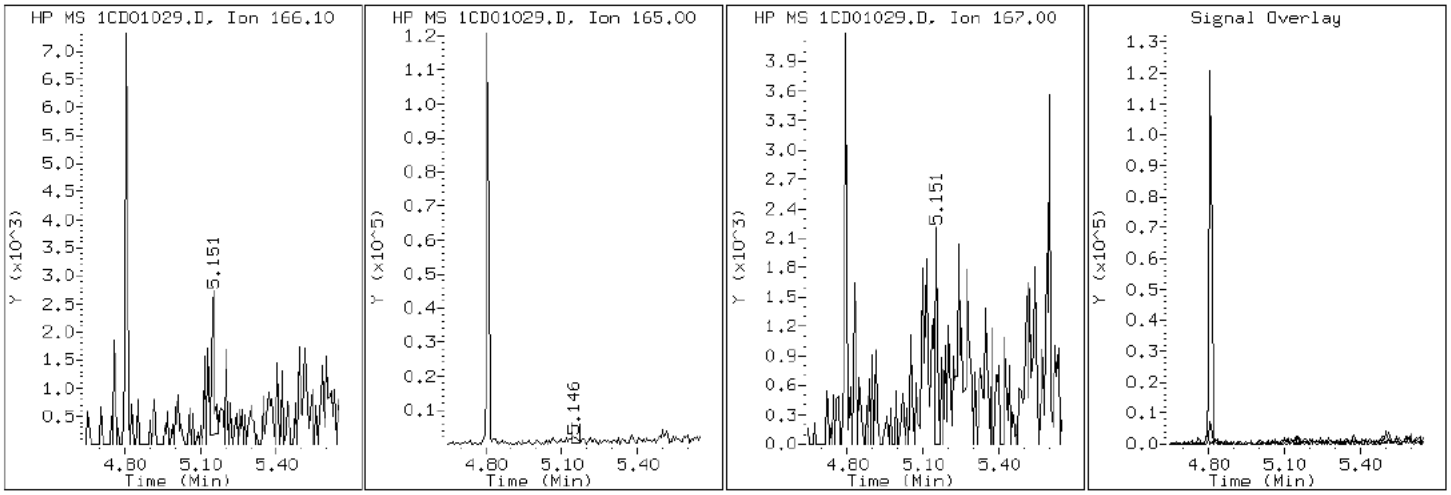
Data File: 1CD01029.D

Date: 01-APR-2013 19:44

Client ID: CV0813B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a Operator: SCC

9 Fluorene



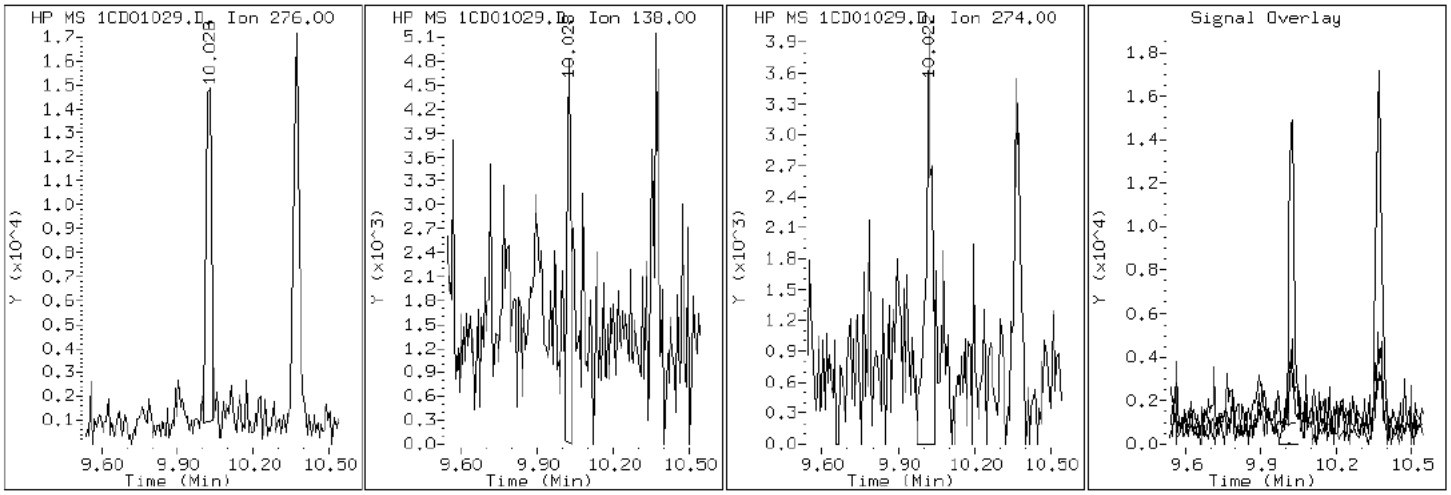
Data File: 1CD01029.D

Date: 01-APR-2013 19:44

Client ID: CV0813B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a Operator: SCC

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



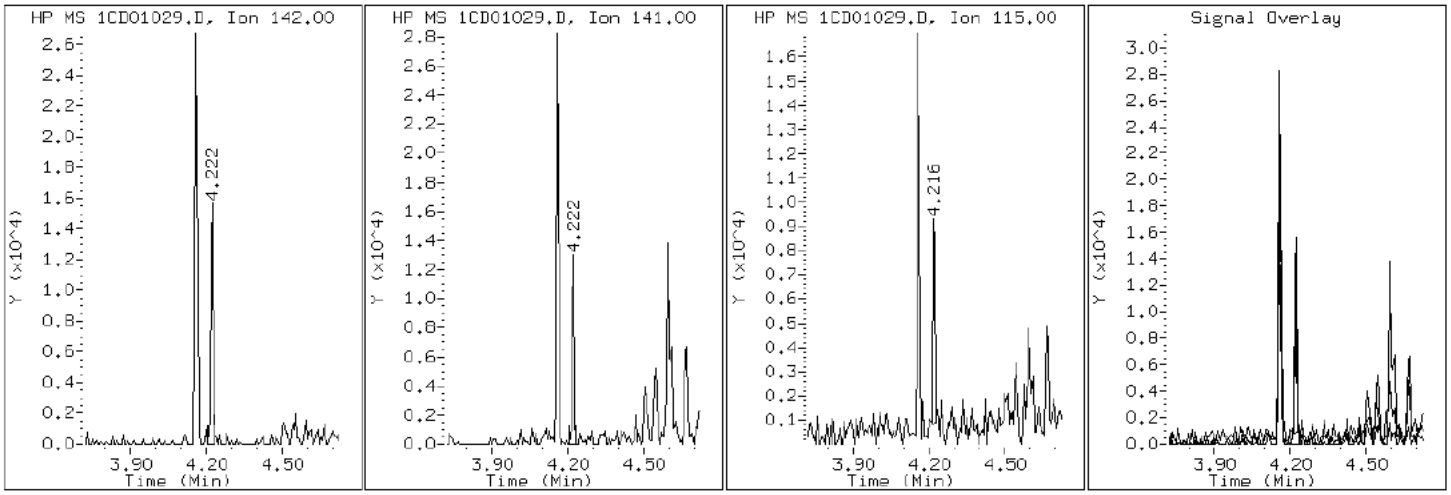
Data File: 1CD01029.D

Date: 01-APR-2013 19:44

Client ID: CV0813B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a Operator: SCC

4 1-Methylnaphthalene



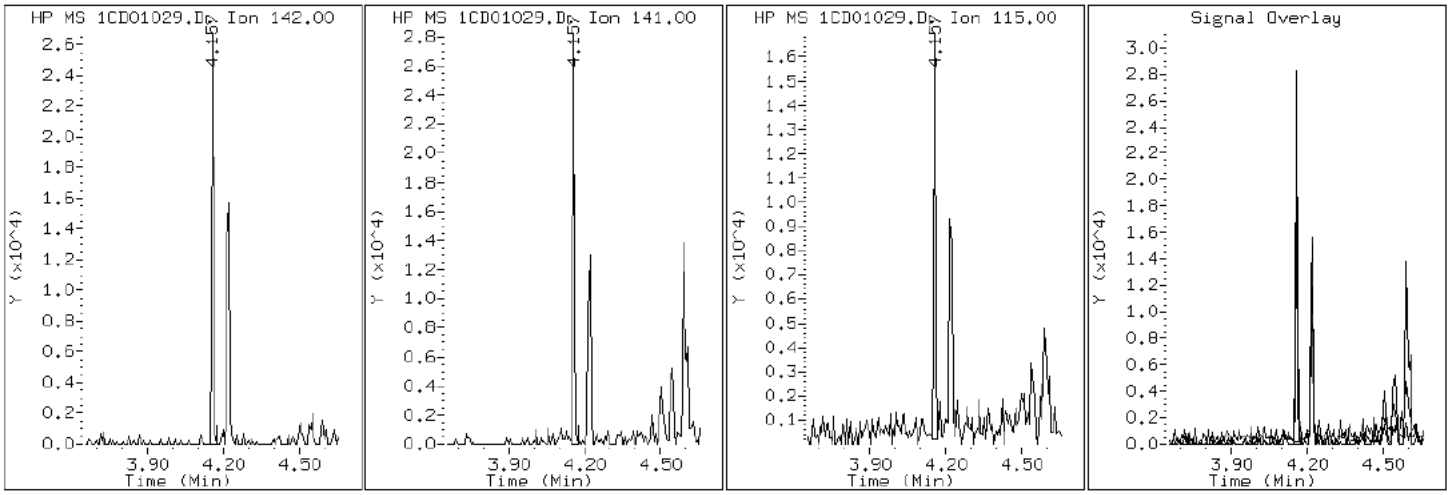
Data File: 1CD01029.D

Date: 01-APR-2013 19:44

Client ID: CV0813B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a Operator: SCC

3 2-Methylnaphthalene



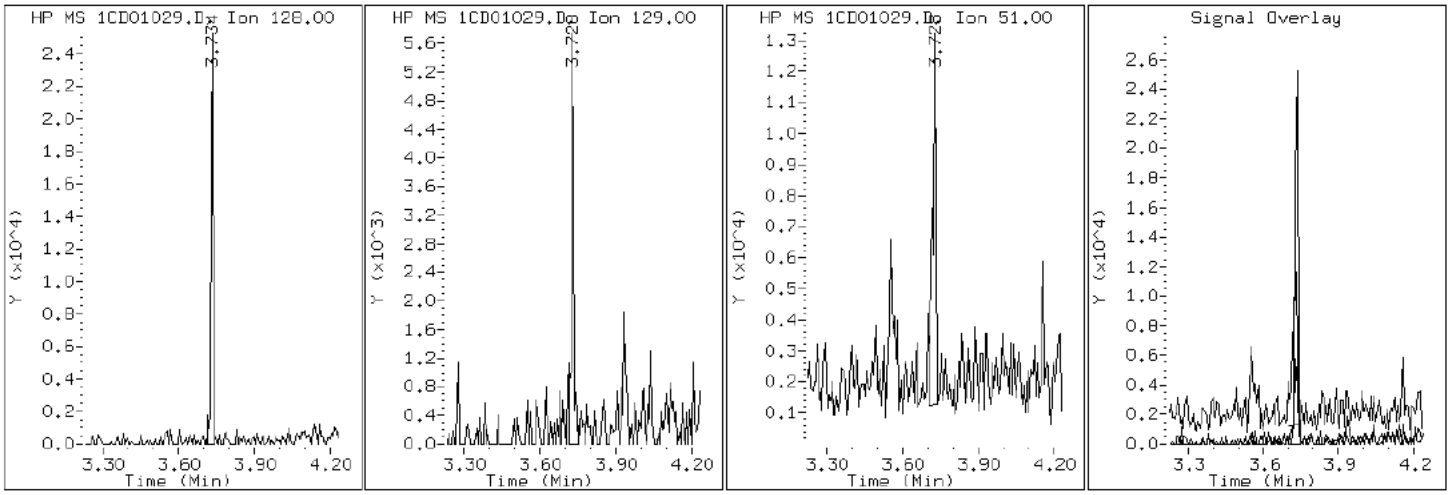
Data File: 1CD01029.D

Date: 01-APR-2013 19:44

Client ID: CV0813B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a Operator: SCC

2 Naphthalene



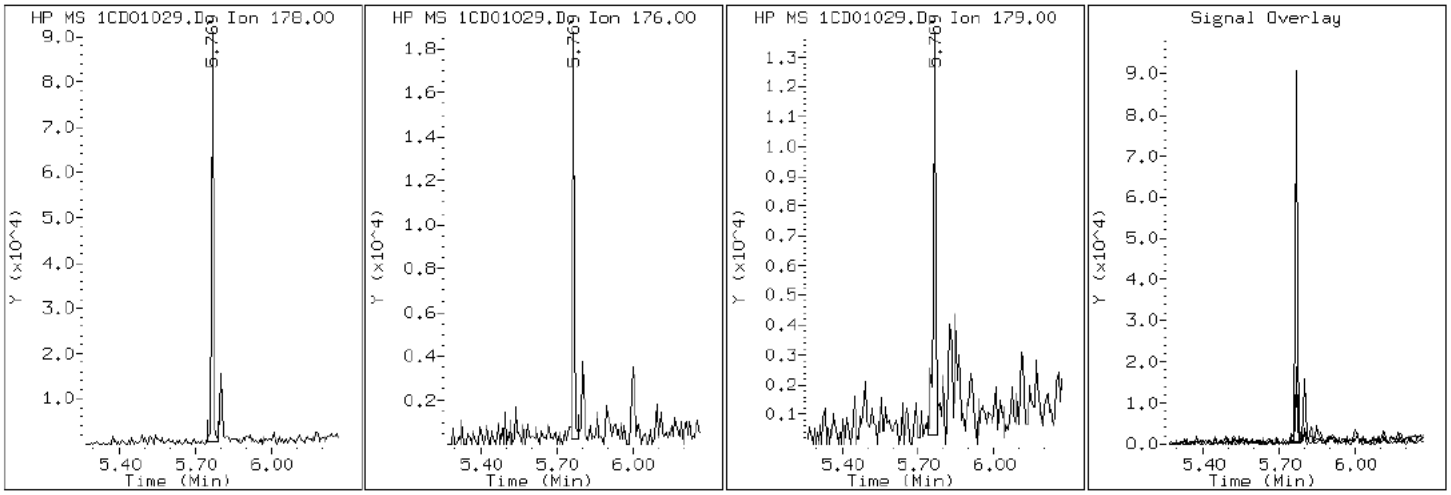
Data File: 1CD01029.D

Date: 01-APR-2013 19:44

Client ID: CV0813B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a Operator: SCC

11 Phenanthrene



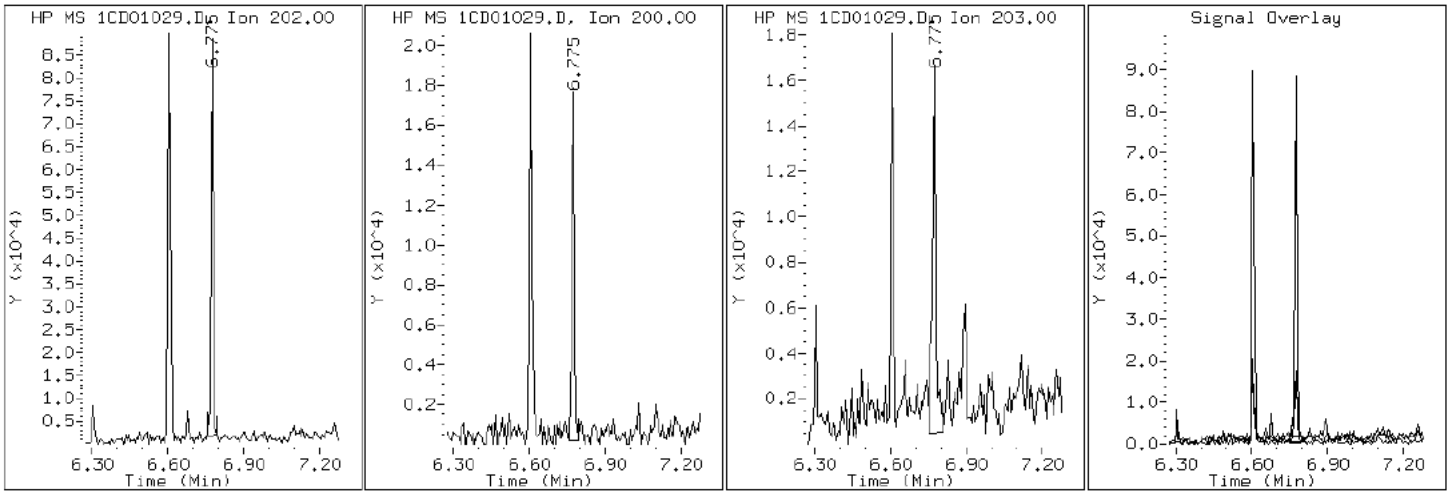
Data File: 1CD01029.D

Date: 01-APR-2013 19:44

Client ID: CV0813B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-36-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD01029.D
Inj. Date and Time: 01-APR-2013 19:44
Instrument ID: BSMC5973.i
Client ID: CV0813B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

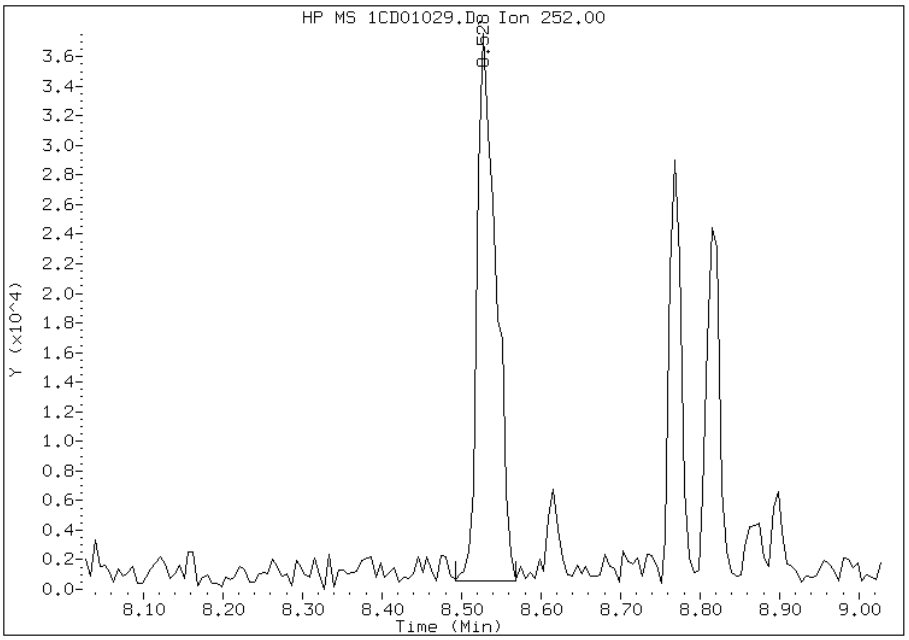
Processing Integration Results

RT: 8.53

Response: 60823

Amount: 2

Conc: 738



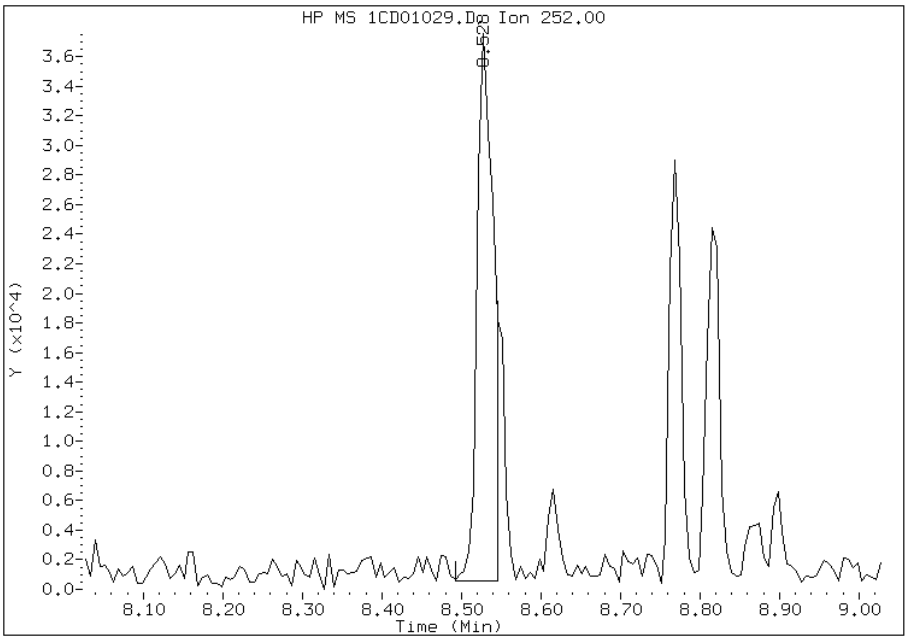
Manual Integration Results

RT: 8.53

Response: 52259

Amount: 2

Conc: 634



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:10
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD01029.D
Inj. Date and Time: 01-APR-2013 19:44
Instrument ID: BSMC5973.i
Client ID: CV0813B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

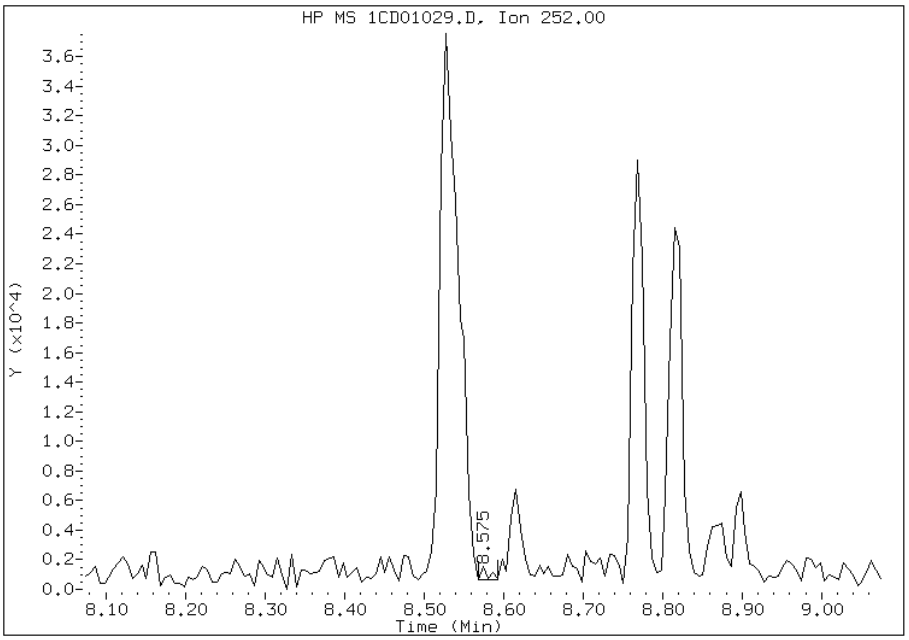
Processing Integration Results

RT: 8.57

Response: 555

Amount: 0

Conc: 7



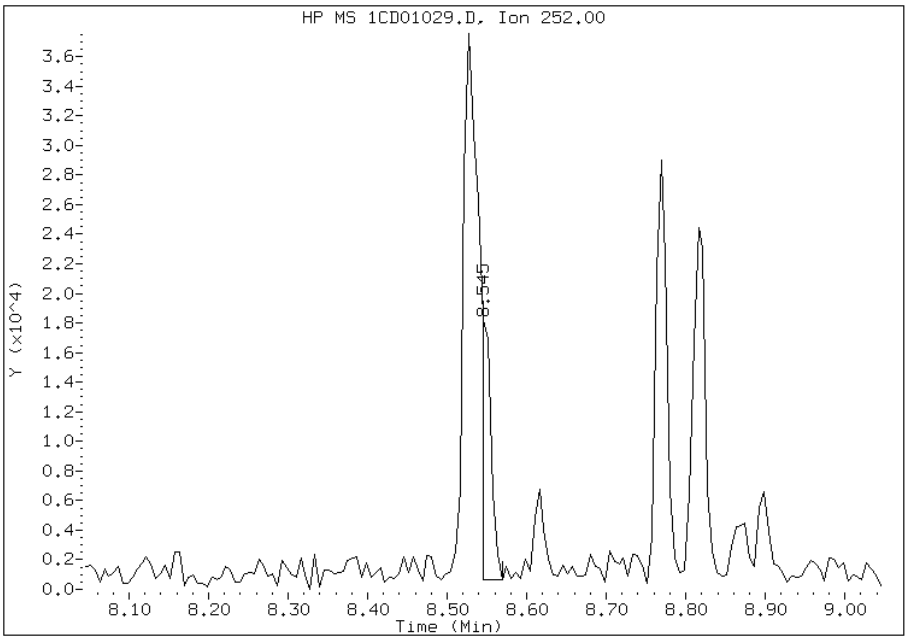
Manual Integration Results

RT: 8.55

Response: 14634

Amount: 1

Conc: 173



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01029.D
Inj. Date and Time: 01-APR-2013 19:44
Instrument ID: BSMC5973.i
Client ID: CV0813B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

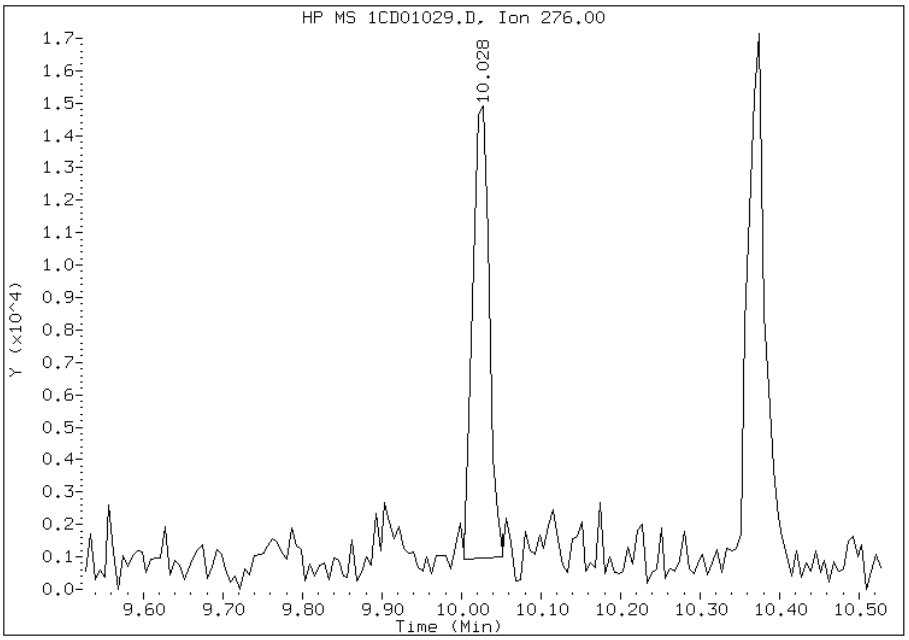
Processing Integration Results

RT: 10.03

Response: 19722

Amount: 1

Conc: 262



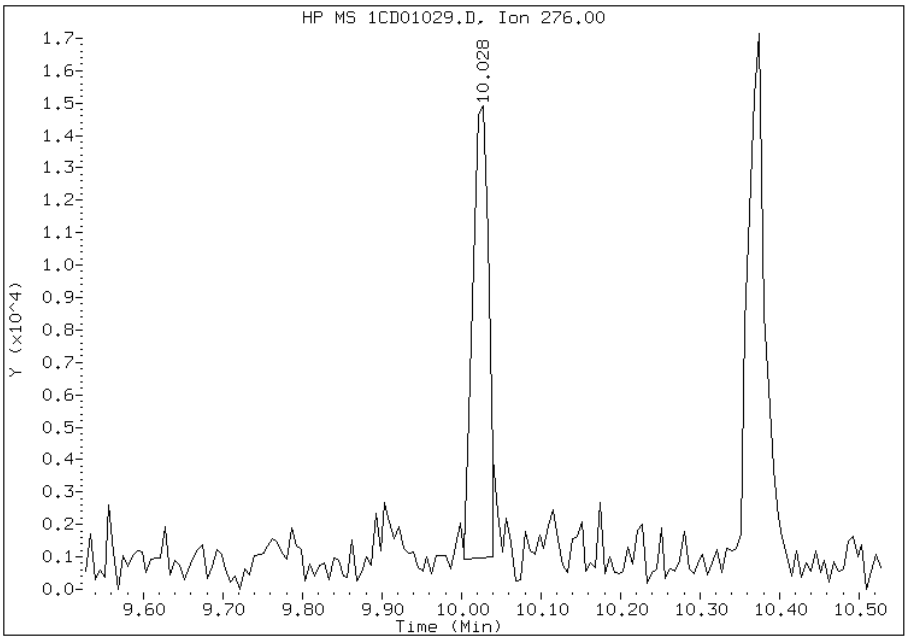
Manual Integration Results

RT: 10.03

Response: 19196

Amount: 1

Conc: 255



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:10
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: FM0346A-CS | Lab Sample ID: 680-88632-37

Matrix: Solid | Lab File ID: 1CD01030.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 15:20

Extract. Method: 3546 | Date Extracted: 03/27/2013 15:04

Sample wt/vol: 14.96(g) | Date Analyzed: 04/01/2013 20:03

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

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

% Moisture: 19.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135996 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	8.7	J	50	6.2
120-12-7	Anthracene	12		10	5.2
56-55-3	Benzo[a]anthracene	78		10	4.9
50-32-8	Benzo[a]pyrene	94		13	6.5
205-99-2	Benzo[b]fluoranthene	140		15	7.6
191-24-2	Benzo[g,h,i]perylene	78		25	5.5
207-08-9	Benzo[k]fluoranthene	63		10	4.5
218-01-9	Chrysene	96		11	5.6
53-70-3	Dibenz(a,h)anthracene	25		25	5.1
206-44-0	Fluoranthene	130		25	5.0
86-73-7	Fluorene	7.3	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	68		25	8.9
90-12-0	1-Methylnaphthalene	24	J	50	5.5
91-57-6	2-Methylnaphthalene	29	J	50	8.9
91-20-3	Naphthalene	34	J	50	5.5
85-01-8	Phenanthrene	78		10	4.9
129-00-0	Pyrene	130		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01030.D
Lab Smp Id: 680-88632-A-37-A Client Smp ID: FM0346A-CS
Inj Date : 01-APR-2013 20:03
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-37-a
Misc Info : 680-88632-A-37-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	14.960	Weight Extracted
M	19.643	% 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	3.716	3.716	(1.000)	730784	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	573288	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	1036175	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	99026	6.32977	526.5409
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1087916	40.0000	
* 23 Perylene-d12	264	8.874	8.886	(1.000)	1027963	40.0000	
2 Naphthalene	128	3.733	3.733	(1.005)	7810	0.41051	34.1482(Q)
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	4464	0.35176	29.2608
4 1-Methylnaphthalene	142	4.222	4.222	(1.136)	3384	0.29278	24.3550
5 Acenaphthylene	152	4.722	4.716	(0.983)	2417	0.10457	8.6988
9 Fluorene	166	5.145	5.145	(1.071)	1602	0.08817	7.3347
11 Phenanthrene	178	5.769	5.768	(1.003)	28131	0.93890	78.1023
12 Anthracene	178	5.804	5.804	(1.009)	4153	0.14173	11.7897
13 Carbazole	167	5.910	5.910	(1.028)	4966	0.19065	15.8592

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.604	6.604	(1.148)	52238	1.59206	132.4351
16 Pyrene	202	6.774	6.774	(0.881)	45619	1.56036	129.7983
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	29256	0.93174	77.5064
19 Chrysene	228	7.710	7.715	(1.002)	36368	1.15737	96.2756
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.961)	45663	1.69975	141.3935(M)
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.963)	20899	0.75834	63.0825(QMH)
22 Benzo(a)pyrene	252	8.815	8.827	(0.993)	29373	1.12565	93.6370
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.039	(1.129)	20117	0.81952	68.1716(M)
25 Dibenzo(a,h)anthracene	278	10.039	10.056	(1.131)	7133	0.29708	24.7122
26 Benzo(g,h,i)perylene	276	10.368	10.386	(1.168)	24088	0.93806	78.0323(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: 1CD01030.D

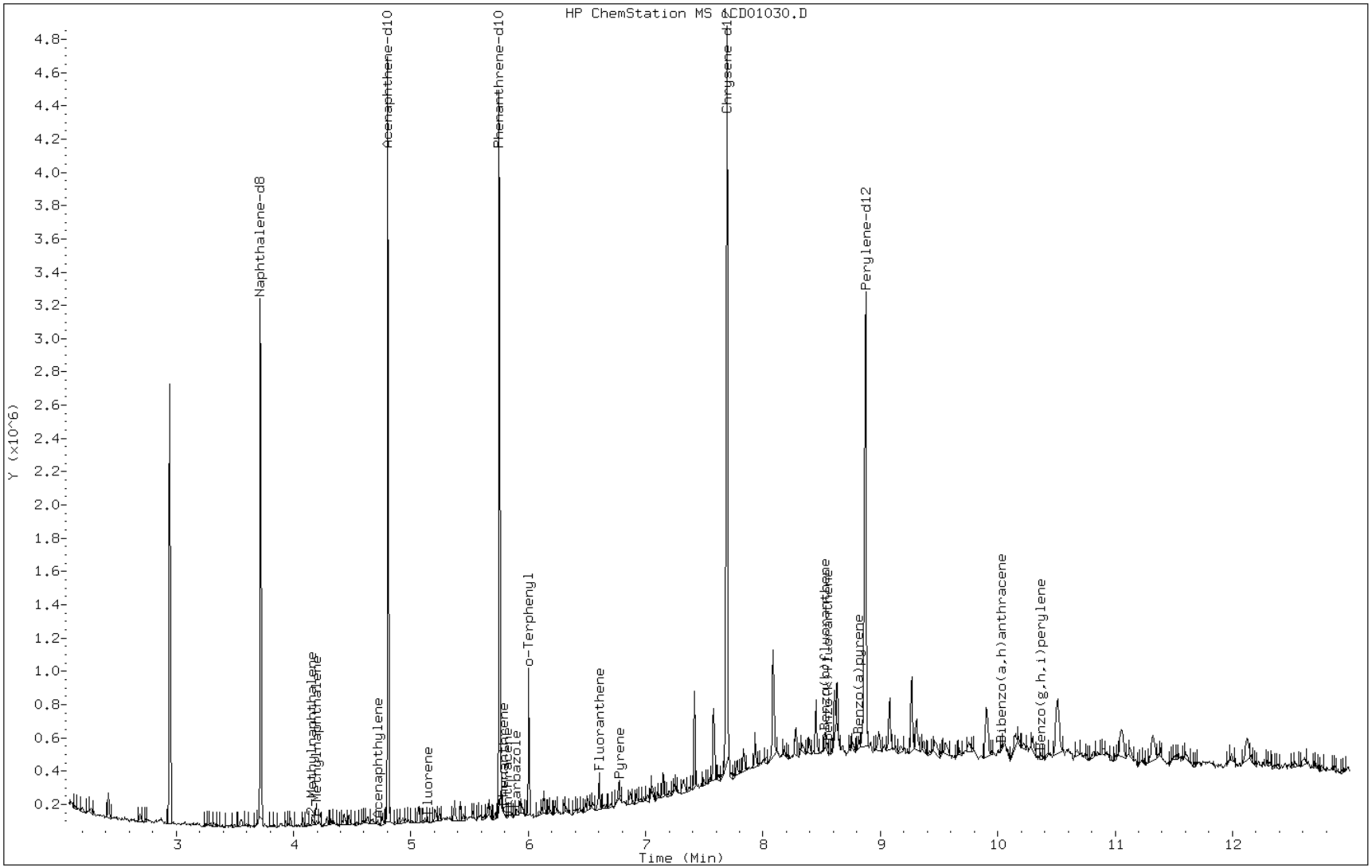
Date: 01-APR-2013 20:03

Client ID: FM0346A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a

Operator: SCC



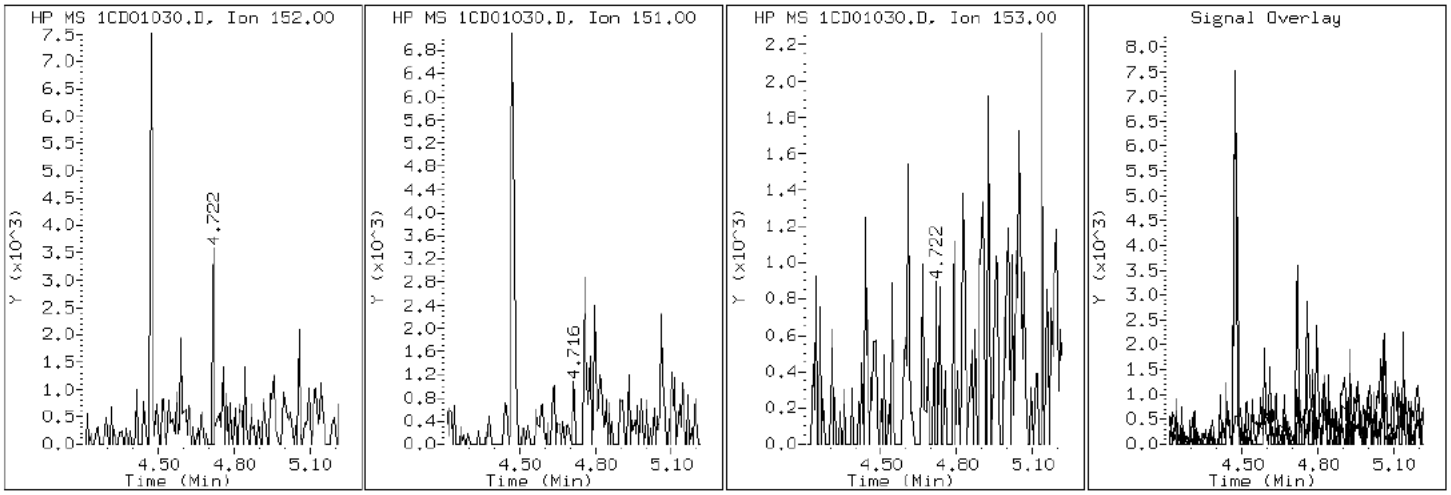
Data File: 1CD01030.D

Date: 01-APR-2013 20:03

Client ID: FM0346A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a Operator: SCC

5 Acenaphthylene



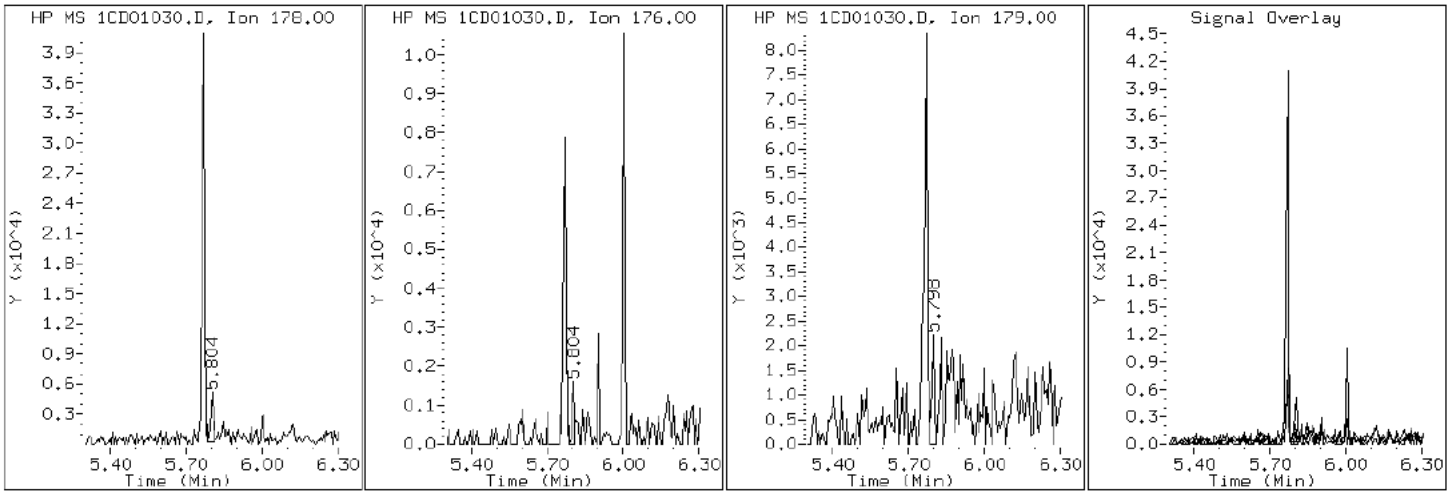
Data File: 1CD01030.D

Date: 01-APR-2013 20:03

Client ID: FM0346A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a Operator: SCC

12 Anthracene



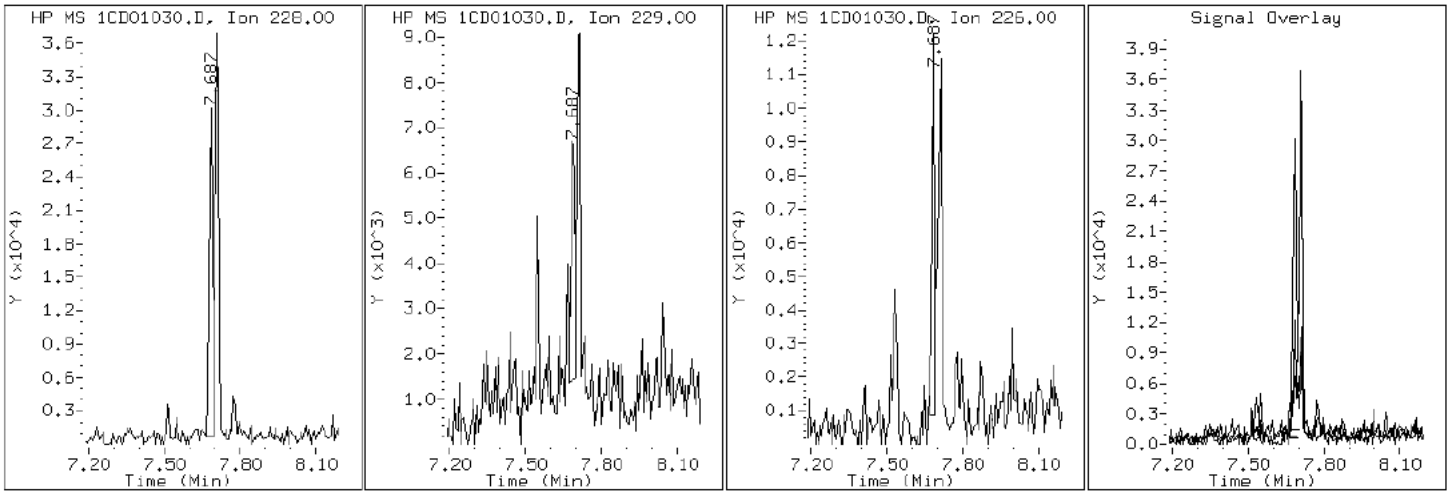
Data File: 1CD01030.D

Date: 01-APR-2013 20:03

Client ID: FM0346A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a Operator: SCC

17 Benzo(a)anthracene



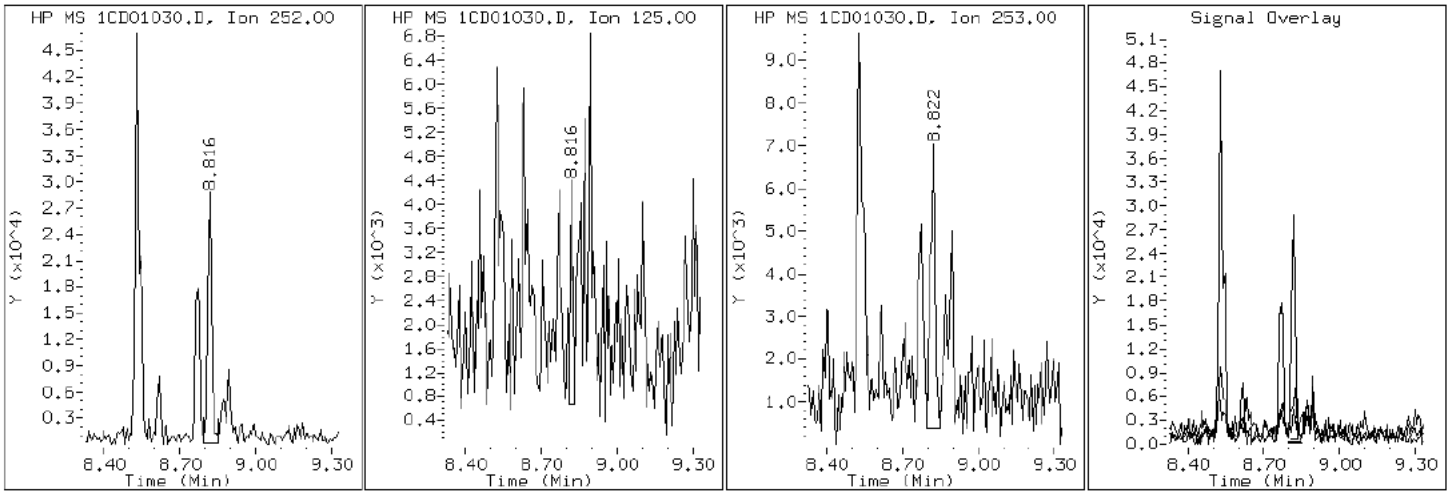
Data File: 1CD01030.D

Date: 01-APR-2013 20:03

Client ID: FM0346A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a Operator: SCC

22 Benzo(a)pyrene



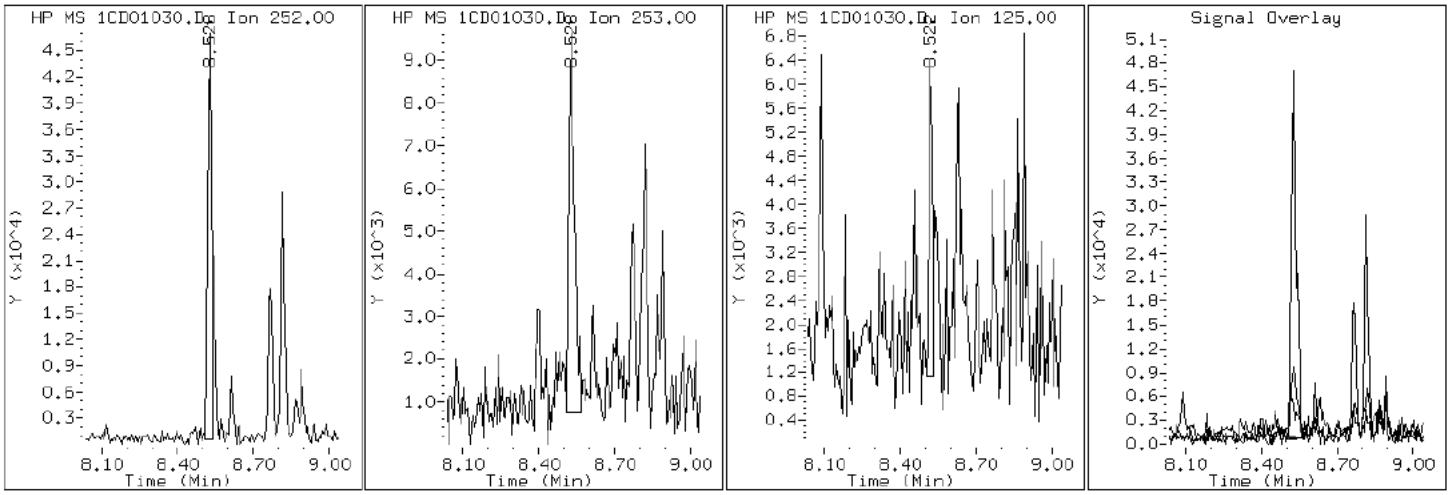
Data File: 1CD01030.D

Date: 01-APR-2013 20:03

Client ID: FM0346A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a Operator: SCC

20 Benzo(b)fluoranthene



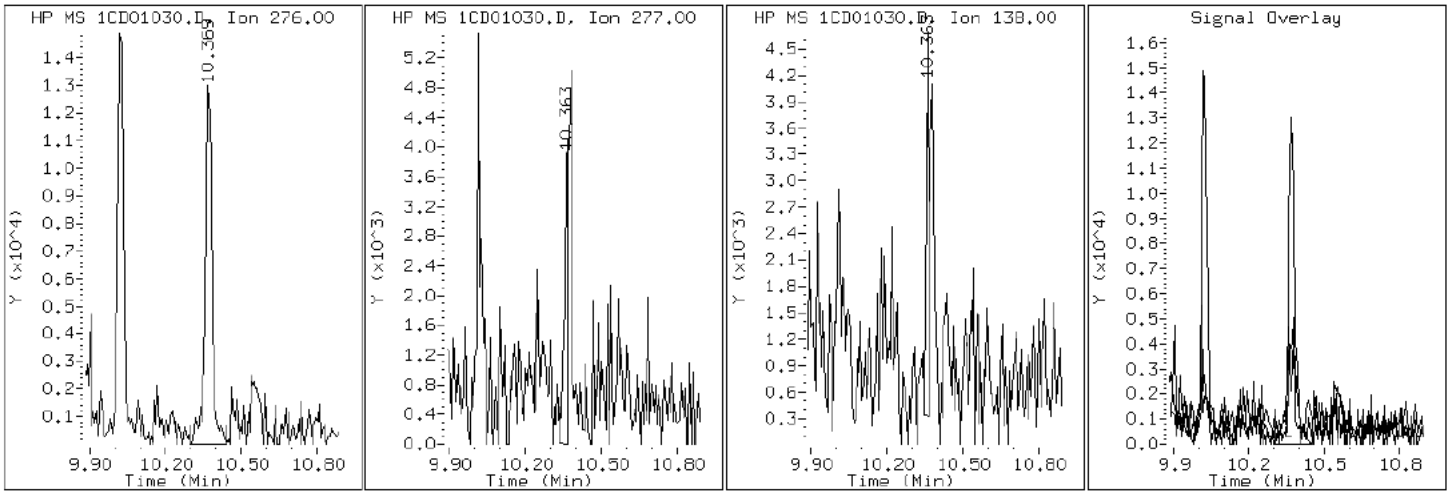
Data File: 1CD01030.D

Date: 01-APR-2013 20:03

Client ID: FM0346A-CS | Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a | Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD01030.D

Date: 01-APR-2013 20:03

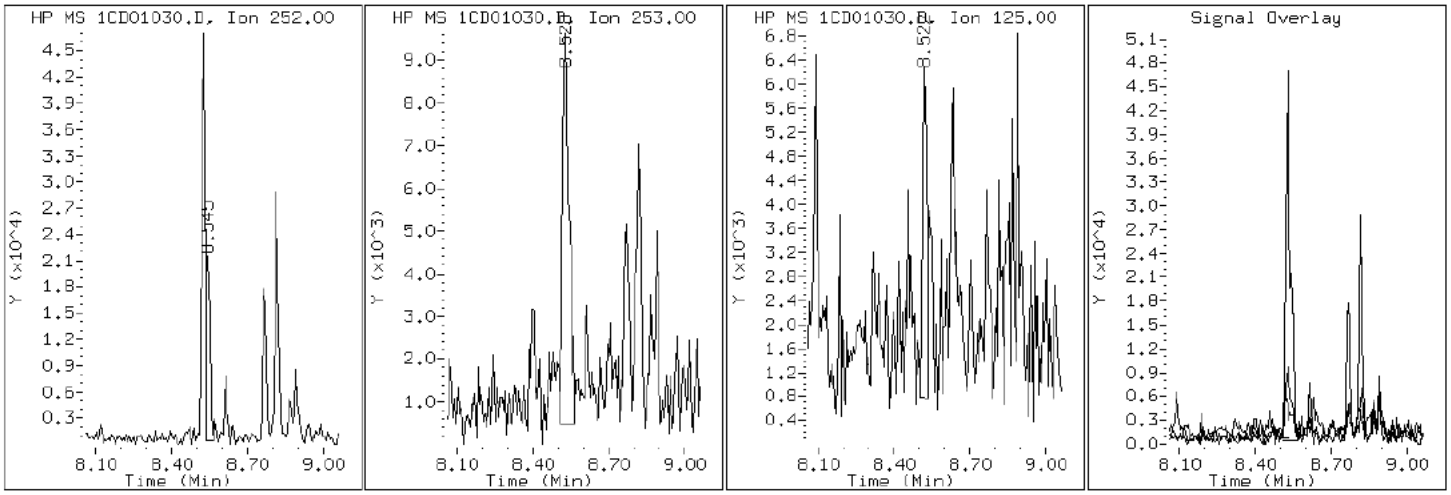
Client ID: FM0346A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a

Operator: SCC

21 Benzo(k)fluoranthene



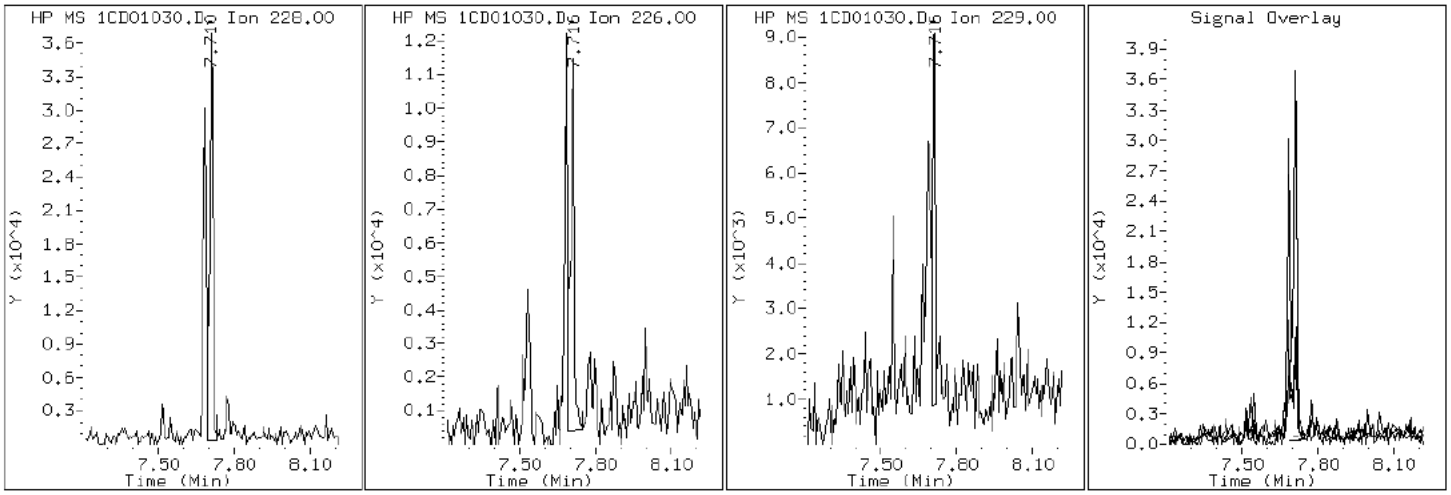
Data File: 1CD01030.D

Date: 01-APR-2013 20:03

Client ID: FM0346A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a Operator: SCC

19 Chrysene



Data File: 1CD01030.D

Date: 01-APR-2013 20:03

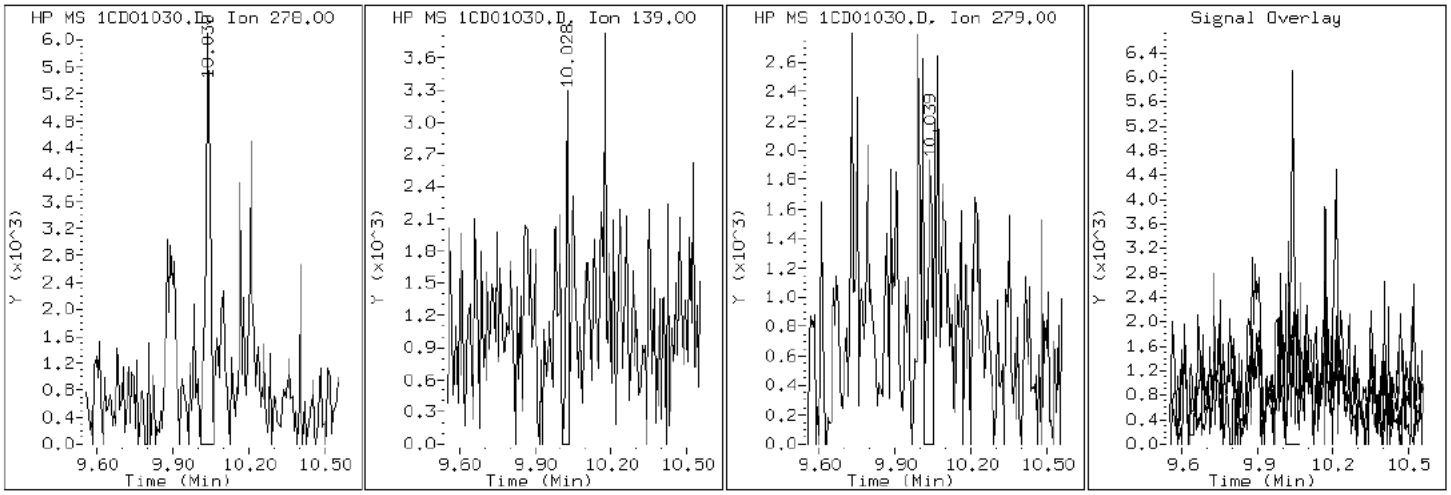
Client ID: FM0346A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a

Operator: SCC

25 Dibenzo(a,h)anthracene



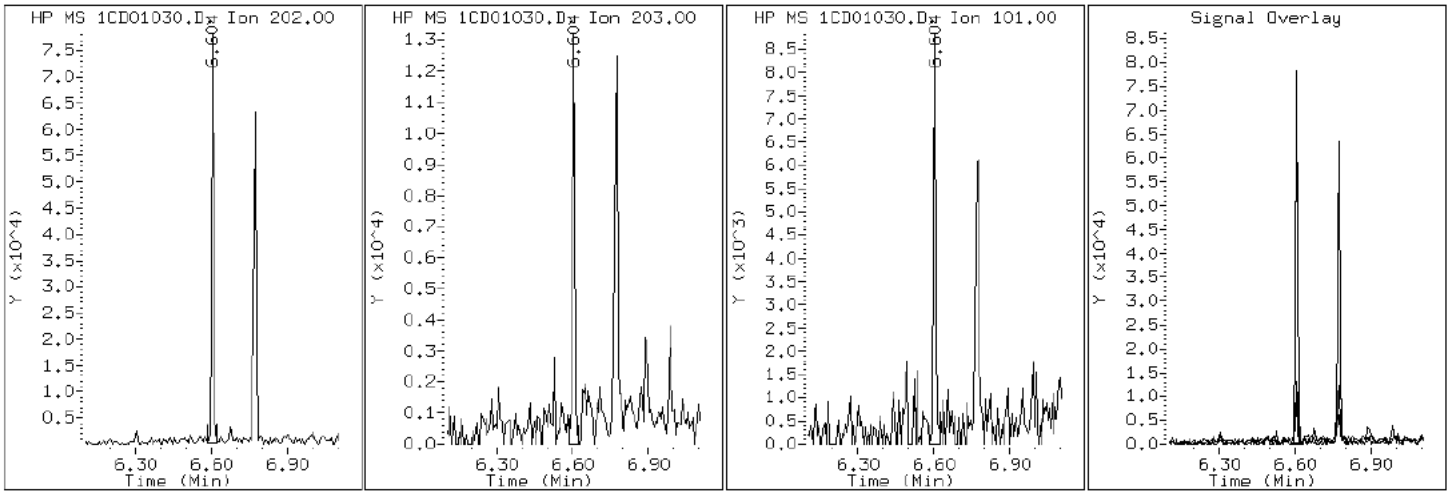
Data File: 1CD01030.D

Date: 01-APR-2013 20:03

Client ID: FM0346A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a Operator: SCC

15 Fluoranthene



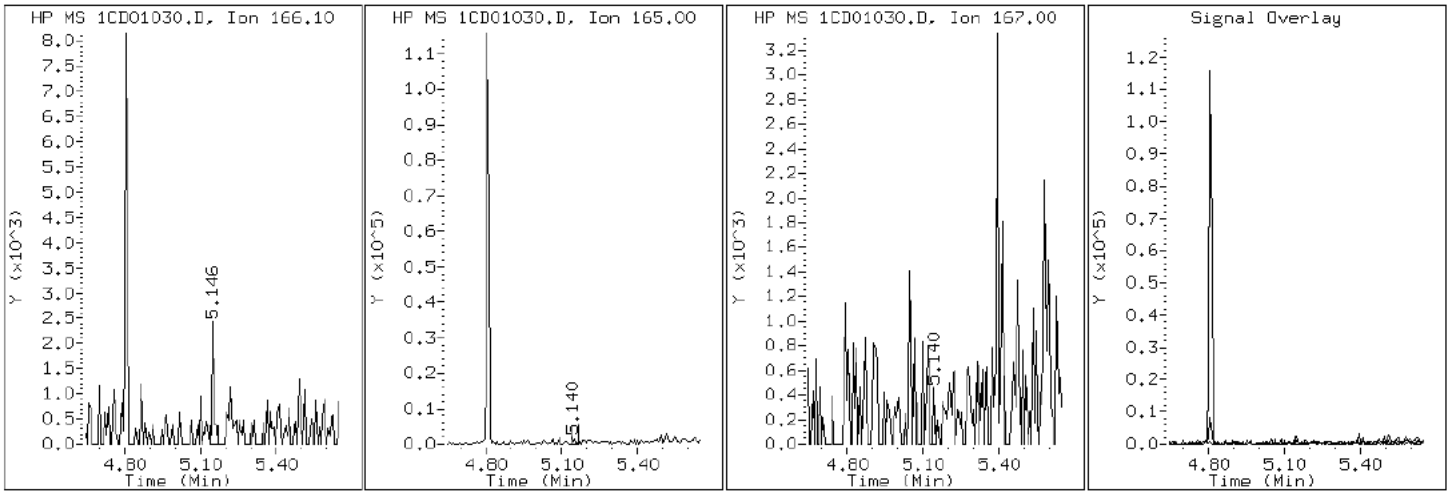
Data File: 1CD01030.D

Date: 01-APR-2013 20:03

Client ID: FM0346A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a Operator: SCC

9 Fluorene



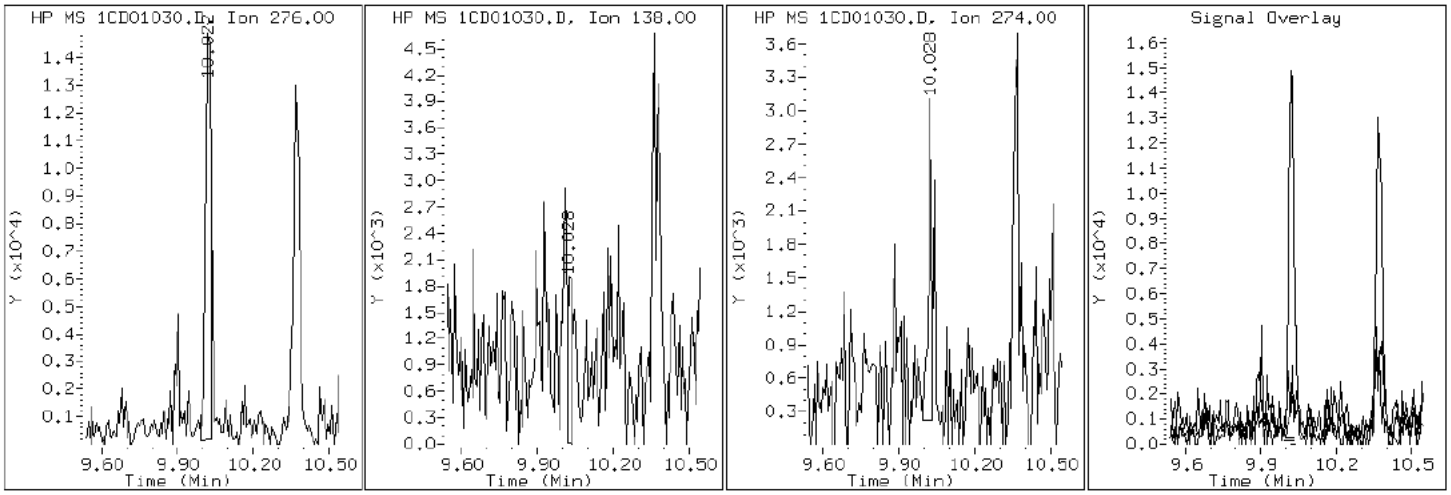
Data File: 1CD01030.D

Date: 01-APR-2013 20:03

Client ID: FM0346A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a Operator: SCC

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



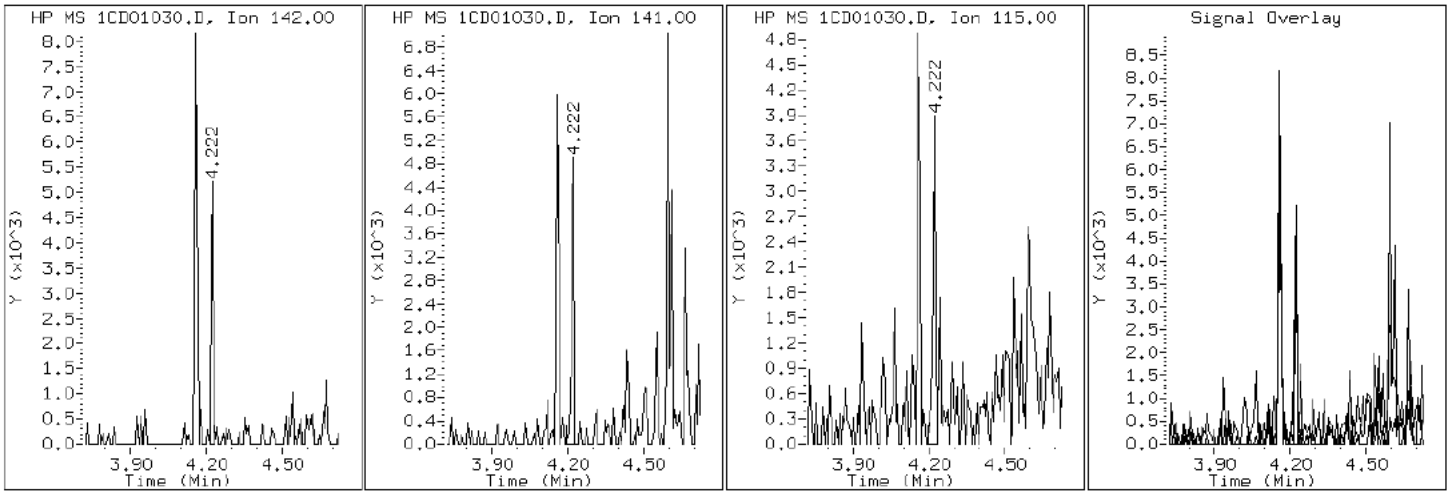
Data File: 1CD01030.D

Date: 01-APR-2013 20:03

Client ID: FM0346A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a Operator: SCC

4 1-Methylnaphthalene



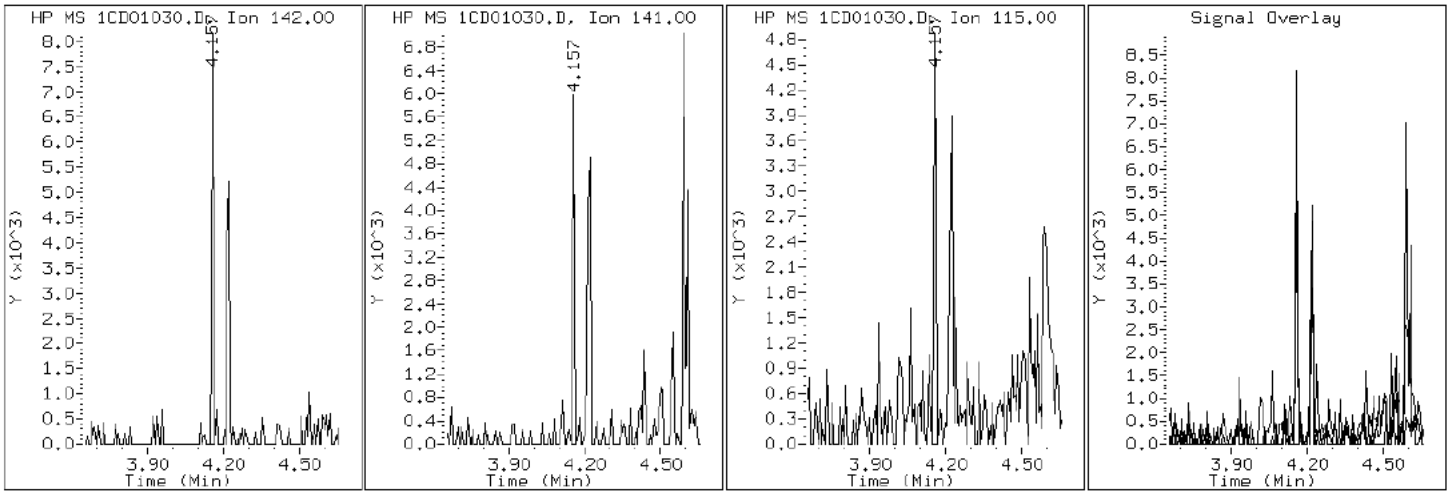
Data File: 1CD01030.D

Date: 01-APR-2013 20:03

Client ID: FM0346A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a Operator: SCC

3 2-Methylnaphthalene



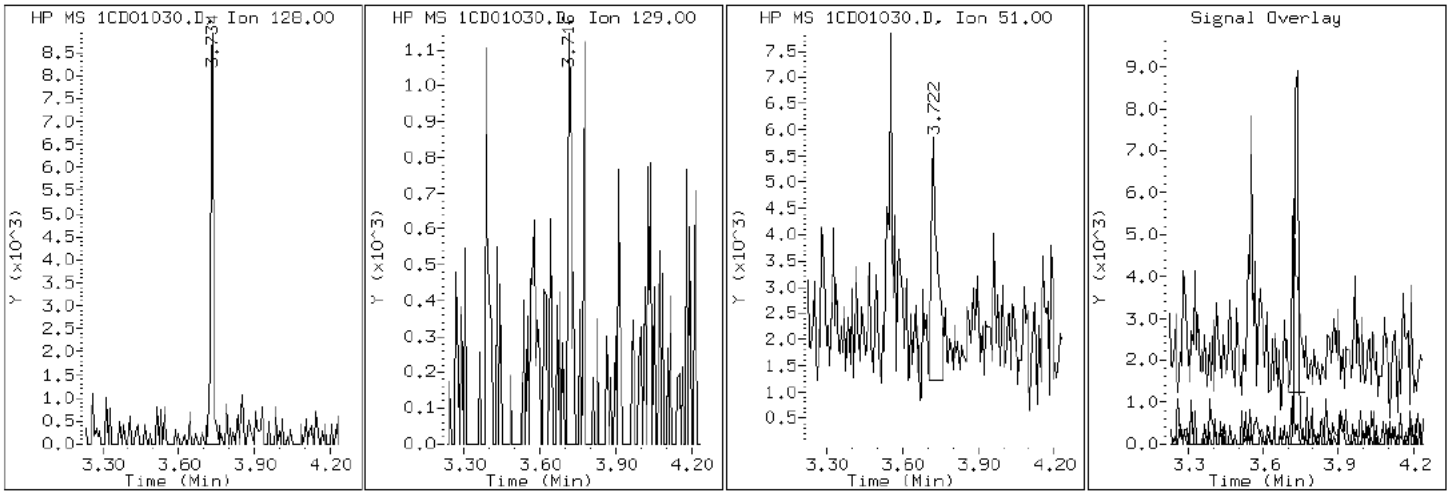
Data File: 1CD01030.D

Date: 01-APR-2013 20:03

Client ID: FM0346A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a Operator: SCC

2 Naphthalene



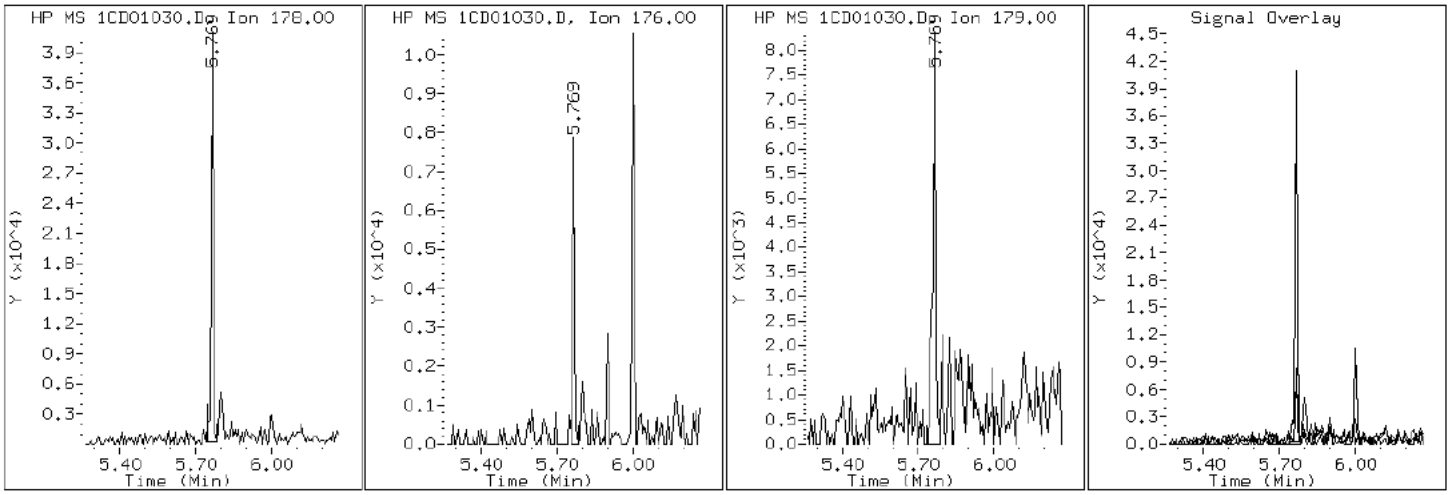
Data File: 1CD01030.D

Date: 01-APR-2013 20:03

Client ID: FM0346A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a Operator: SCC

11 Phenanthrene



Data File: 1CD01030.D

Date: 01-APR-2013 20:03

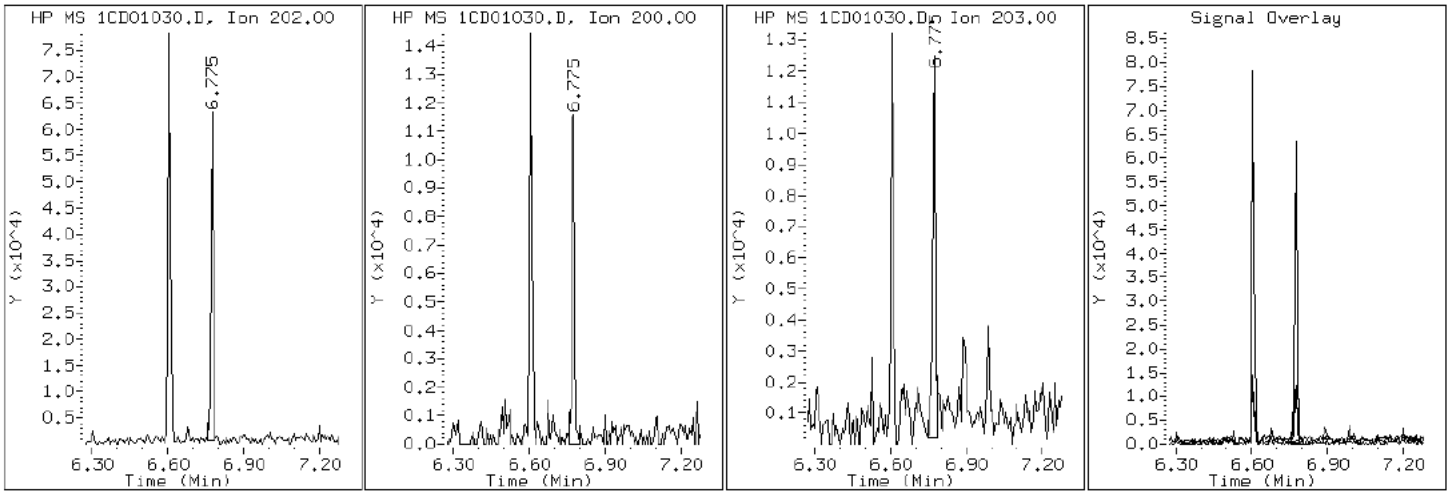
Client ID: FM0346A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-37-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD01030.D
Inj. Date and Time: 01-APR-2013 20:03
Instrument ID: BSMC5973.i
Client ID: FM0346A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

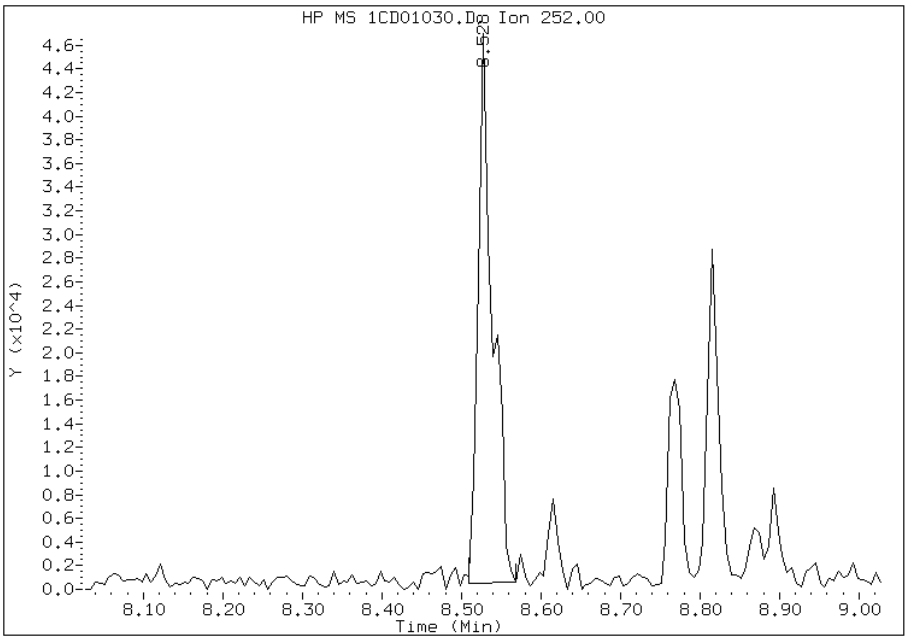
Processing Integration Results

RT: 8.53

Response: 59597

Amount: 2

Conc: 185



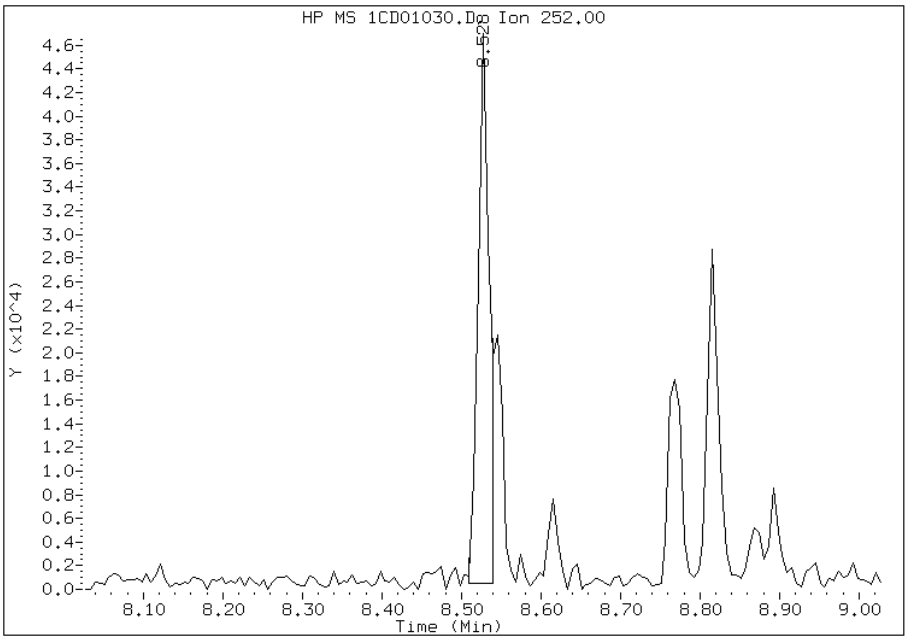
Manual Integration Results

RT: 8.53

Response: 45663

Amount: 2

Conc: 141



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:11
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD01030.D
Inj. Date and Time: 01-APR-2013 20:03
Instrument ID: BSMC5973.i
Client ID: FM0346A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/03/2013

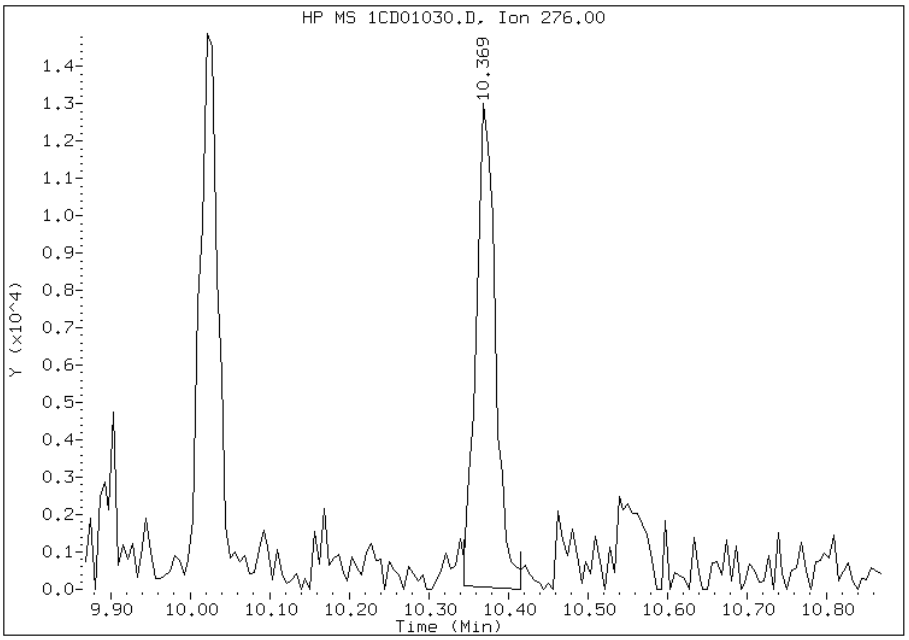
Processing Integration Results

RT: 10.37

Response: 21946

Amount: 1

Conc: 71



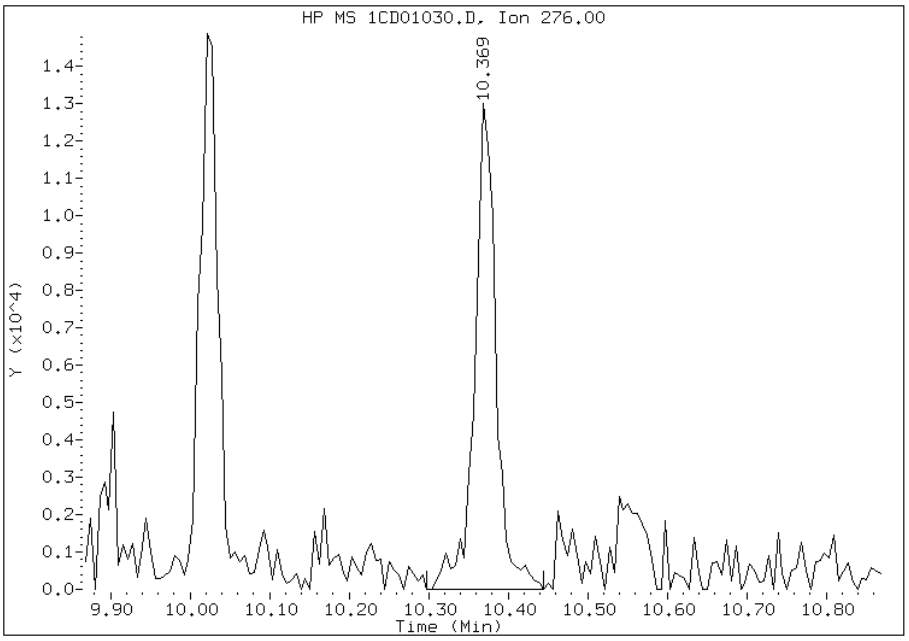
Manual Integration Results

RT: 10.37

Response: 24088

Amount: 1

Conc: 78



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:11
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01030.D
Inj. Date and Time: 01-APR-2013 20:03
Instrument ID: BSMC5973.i
Client ID: FM0346A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

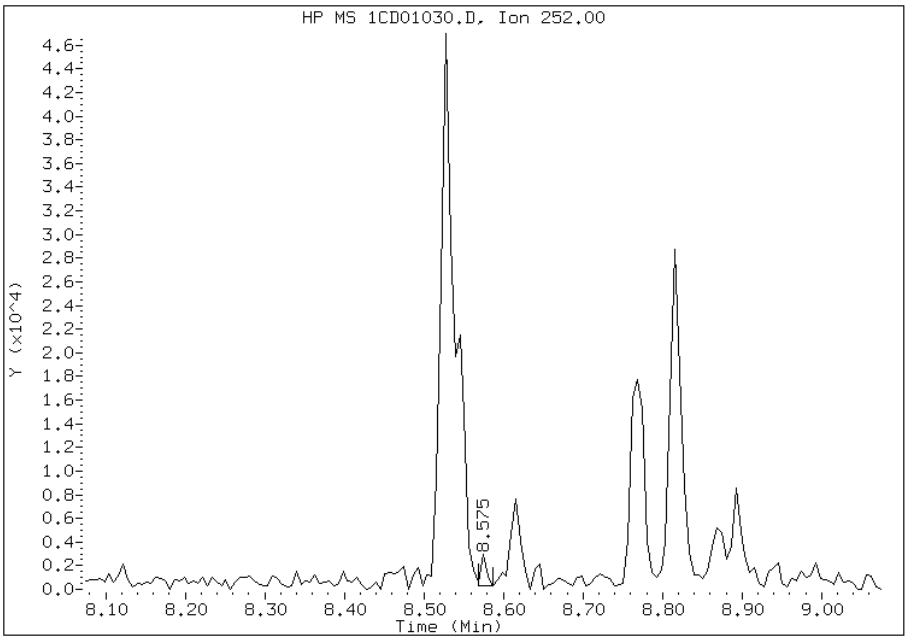
Processing Integration Results

RT: 8.57

Response: 1292

Amount: 0

Conc: 4



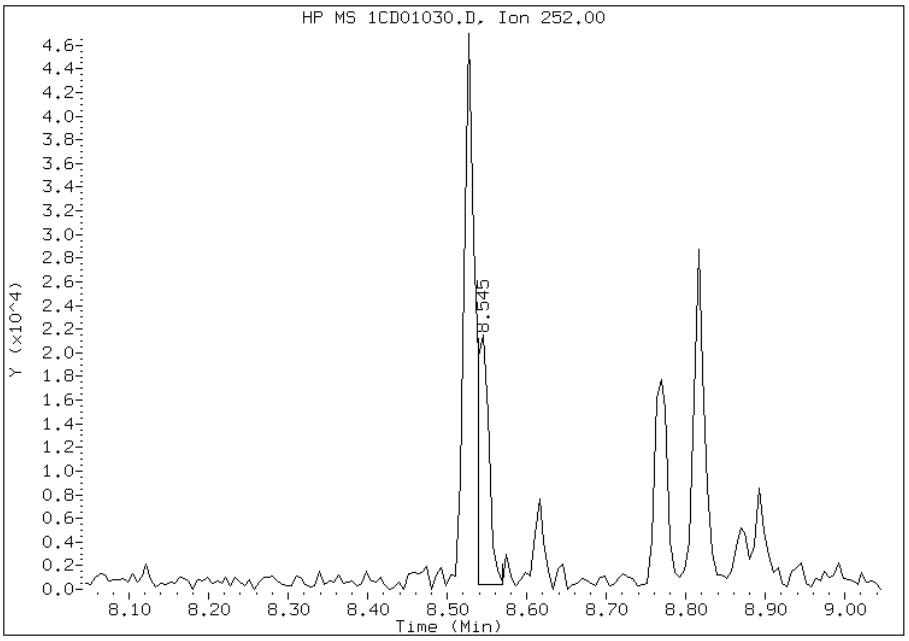
Manual Integration Results

RT: 8.55

Response: 20899

Amount: 1

Conc: 63



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:11
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01030.D
Inj. Date and Time: 01-APR-2013 20:03
Instrument ID: BSMC5973.i
Client ID: FM0346A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

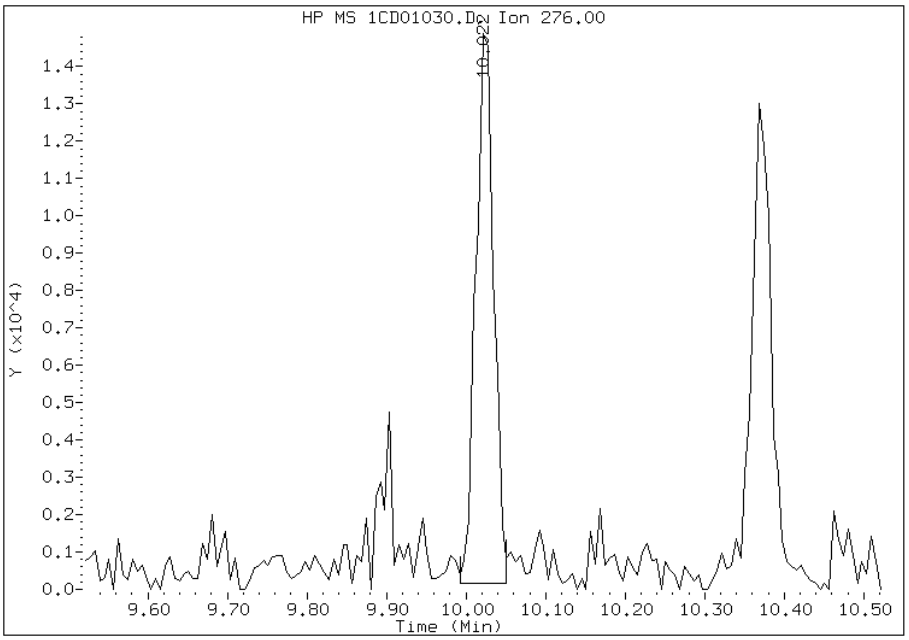
Processing Integration Results

RT: 10.02

Response: 22871

Amount: 1

Conc: 78



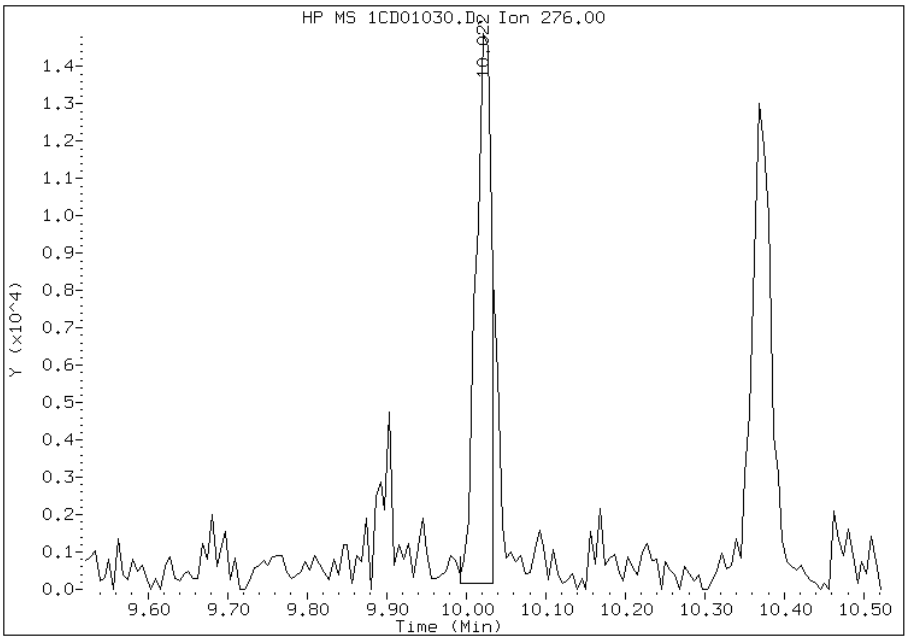
Manual Integration Results

RT: 10.02

Response: 20117

Amount: 1

Conc: 68



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:11
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: FM0346B-CS | Lab Sample ID: 680-88632-38

Matrix: Solid | Lab File ID: 1CD01031.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 15:40

Extract. Method: 3546 | Date Extracted: 03/27/2013 15:04

Sample wt/vol: 14.94(g) | Date Analyzed: 04/01/2013 20:21

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

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

% Moisture: 27.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135996 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	560	U	560	110
208-96-8	Acenaphthylene	68	J	220	28
120-12-7	Anthracene	69		47	23
56-55-3	Benzo[a]anthracene	560		45	22
50-32-8	Benzo[a]pyrene	490		58	29
205-99-2	Benzo[b]fluoranthene	690		68	34
191-24-2	Benzo[g,h,i]perylene	320		110	24
207-08-9	Benzo[k]fluoranthene	370		45	20
218-01-9	Chrysene	620		50	25
53-70-3	Dibenz(a,h)anthracene	120		110	23
206-44-0	Fluoranthene	1000		110	22
86-73-7	Fluorene	110	U	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	350		110	40
90-12-0	1-Methylnaphthalene	85	J	220	24
91-57-6	2-Methylnaphthalene	130	J	220	40
91-20-3	Naphthalene	94	J	220	24
85-01-8	Phenanthrene	550		45	22
129-00-0	Pyrene	900		110	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01031.D
Lab Smp Id: 680-88632-A-38-A Client Smp ID: FM0346B-CS
Inj Date : 01-APR-2013 20:21
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-38-a
Misc Info : 680-88632-A-38-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 31
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	27.830	% 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	3.716	3.716	(1.000)	724708	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	567902	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	1007247	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	34057	2.23946	830.7996
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1057849	40.0000	
* 23 Perylene-d12	264	8.874	8.886	(1.000)	1022368	40.0000	
2 Naphthalene	128	3.733	3.733	(1.005)	4797	0.25425	94.3242
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	4375	0.34763	128.9665
4 1-Methylnaphthalene	142	4.222	4.222	(1.136)	2634	0.22980	85.2531
5 Acenaphthylene	152	4.716	4.716	(0.982)	4217	0.18418	68.3277
11 Phenanthrene	178	5.769	5.768	(1.003)	42964	1.47515	547.2561
12 Anthracene	178	5.804	5.804	(1.009)	5303	0.18617	69.0671
13 Carbazole	167	5.910	5.910	(1.028)	7339	0.28984	107.5273
15 Fluoranthene	202	6.604	6.604	(1.148)	88643	2.77917	1031.0228

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.774	6.774	(0.881)	69268	2.43660	903.9357
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	45902	1.50343	557.7458
19 Chrysene	228	7.715	7.715	(1.003)	51000	1.66915	619.2254
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.961)	49384	1.84832	685.6960(M)
21 Benzo(k)fluoranthene	252	8.539	8.562	(0.962)	27217	0.99300	368.3867(M)
22 Benzo(a)pyrene	252	8.815	8.827	(0.993)	34491	1.32902	493.0437
24 Indeno(1,2,3-cd)pyrene	276	10.027	10.039	(1.130)	23298	0.95430	354.0294(M)
25 Dibenzo(a,h)anthracene	278	10.045	10.056	(1.132)	7460	0.31240	115.8932(M)
26 Benzo(g,h,i)perylene	276	10.368	10.386	(1.168)	21900	0.85752	318.1253(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD01031.D

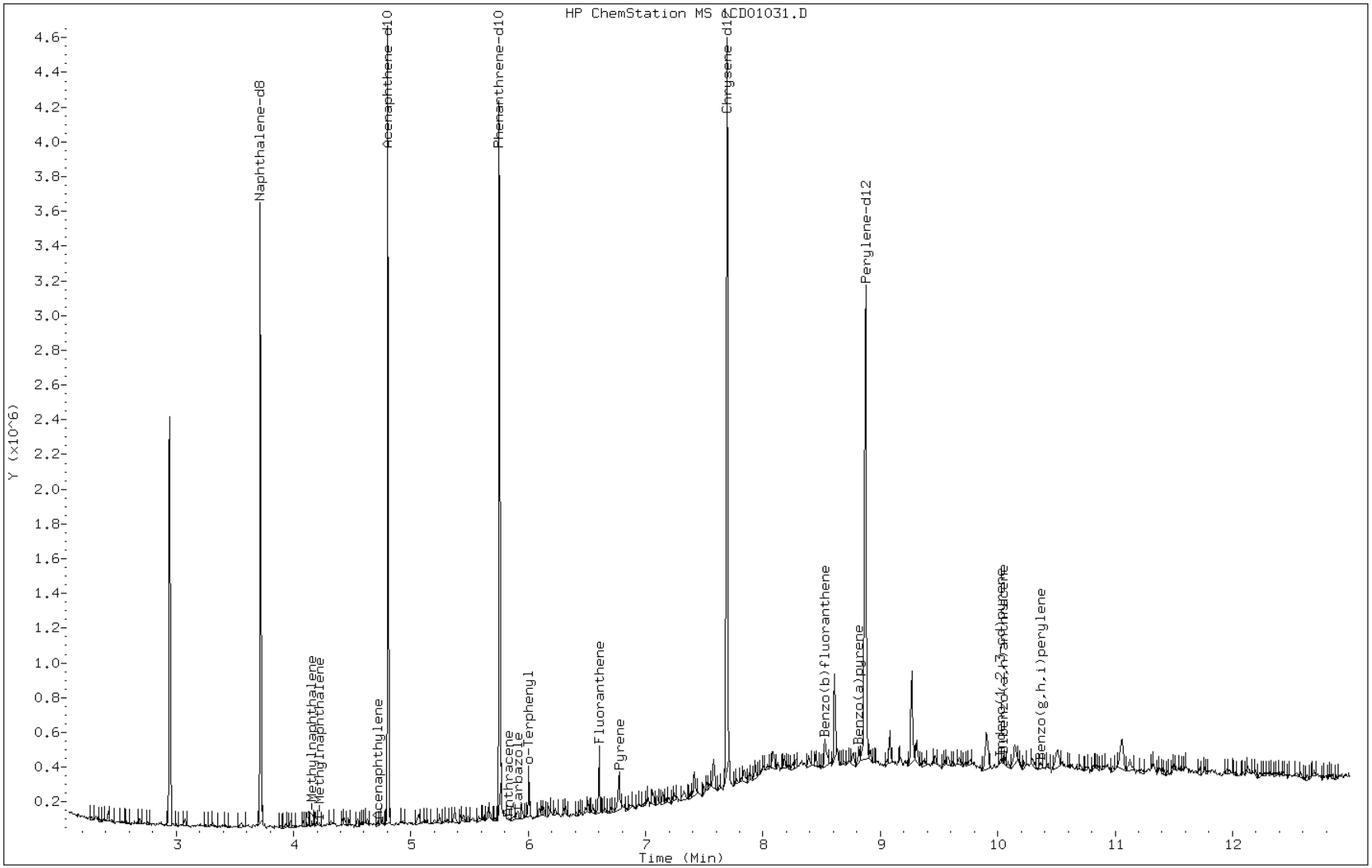
Date: 01-APR-2013 20:21

Client ID: FM0346B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-38-a

Operator: SCC



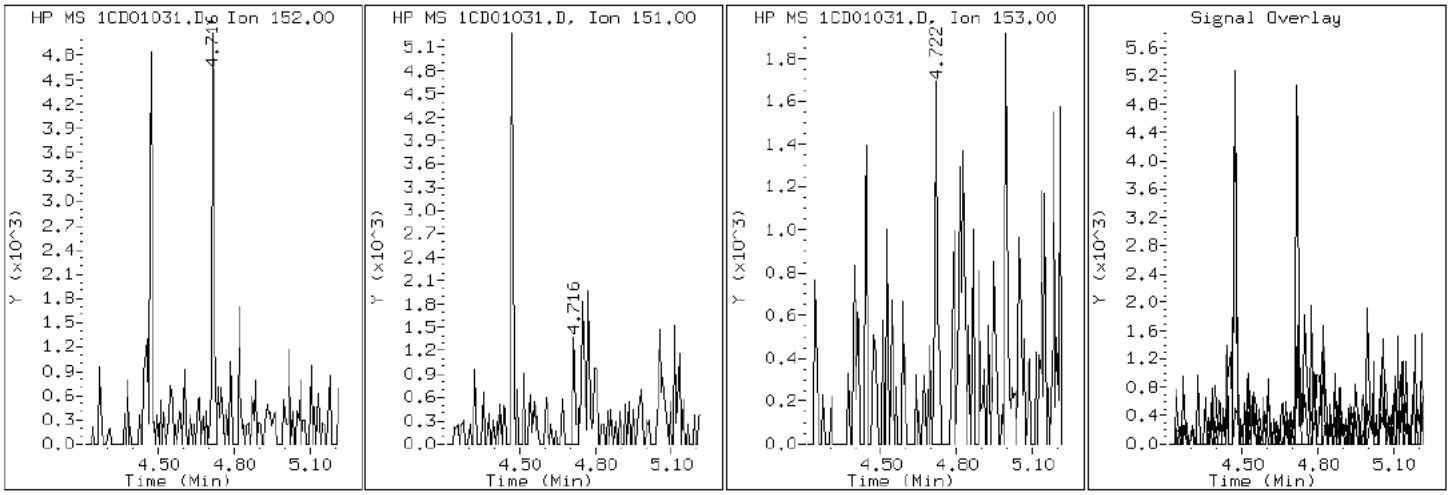
Data File: 1CD01031.D

Date: 01-APR-2013 20:21

Client ID: FM0346B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-38-a Operator: SCC

5 Acenaphthylene



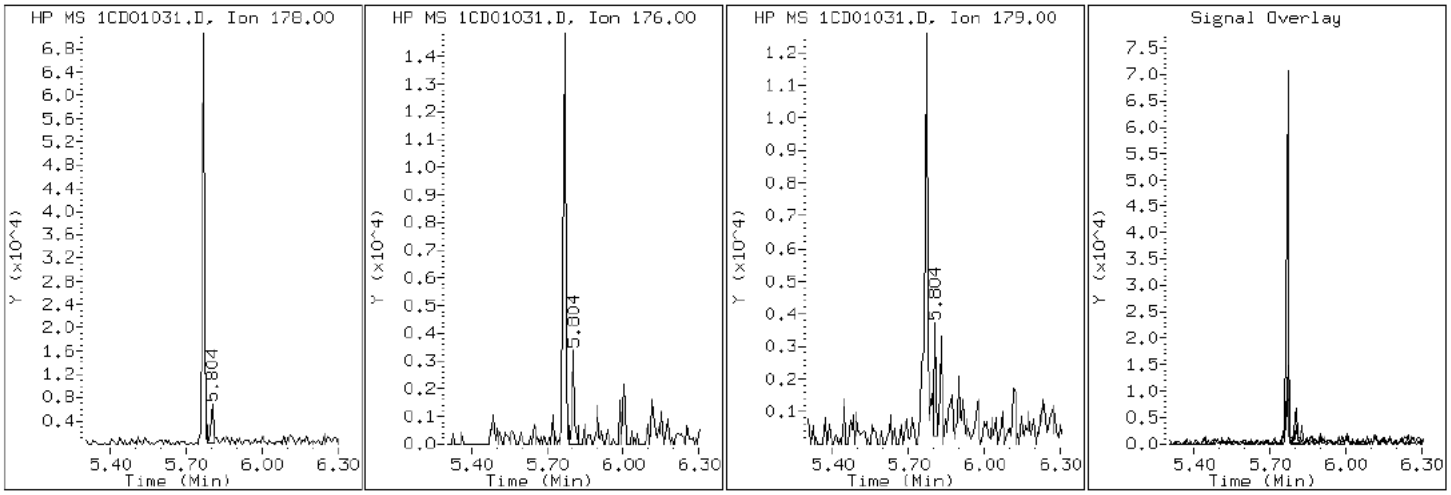
Data File: 1CD01031.D

Date: 01-APR-2013 20:21

Client ID: FM0346B-CS | Instrument: BSMC5973.i

Sample Info: 680-88632-a-38-a | Operator: SCC

12 Anthracene



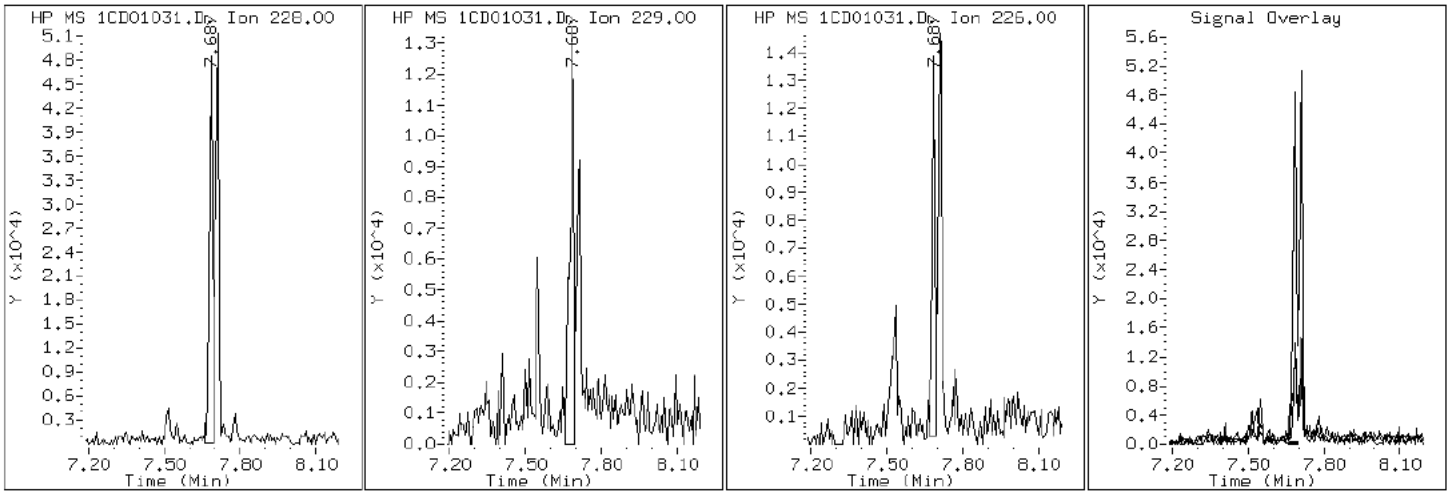
Data File: 1CD01031.D

Date: 01-APR-2013 20:21

Client ID: FM0346B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-38-a Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD01031.D

Date: 01-APR-2013 20:21

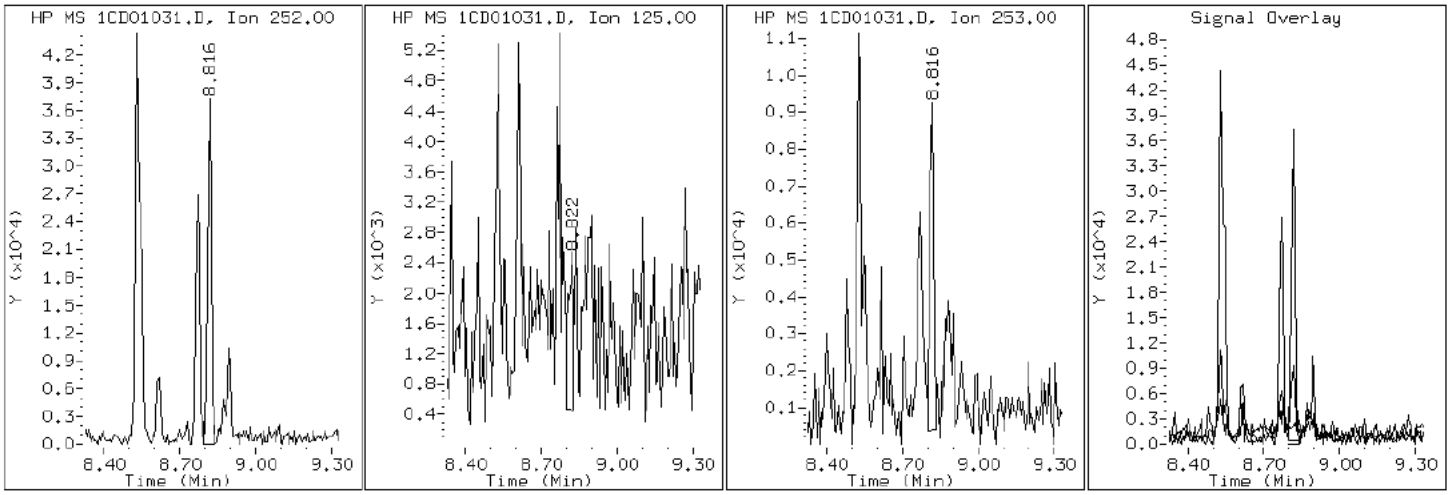
Client ID: FM0346B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-38-a

Operator: SCC

22 Benzo(a)pyrene



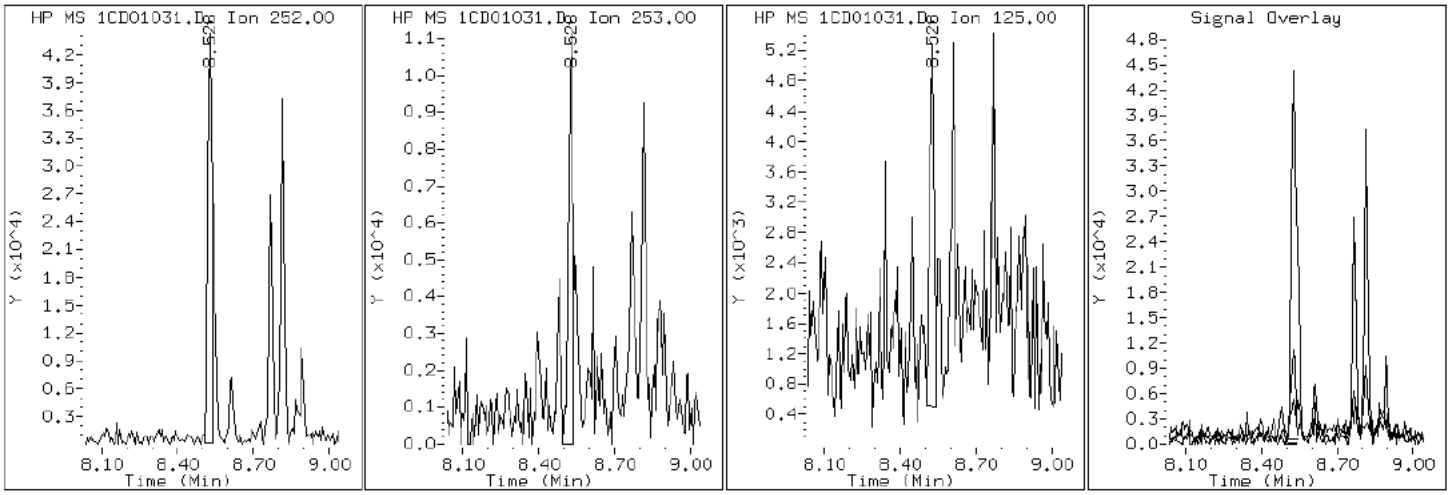
Data File: 1CD01031.D

Date: 01-APR-2013 20:21

Client ID: FM0346B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-38-a Operator: SCC

20 Benzo(b)fluoranthene



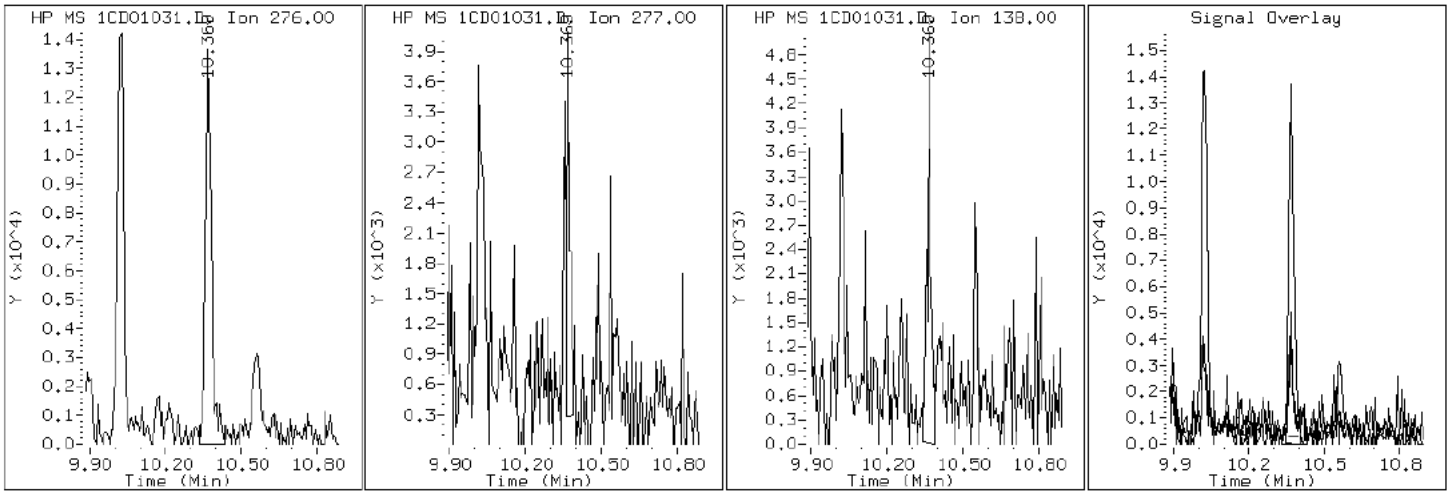
Data File: 1CD01031.D

Date: 01-APR-2013 20:21

Client ID: FM0346B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-38-a Operator: SCC

26 Benzo(g,h,i)perylene



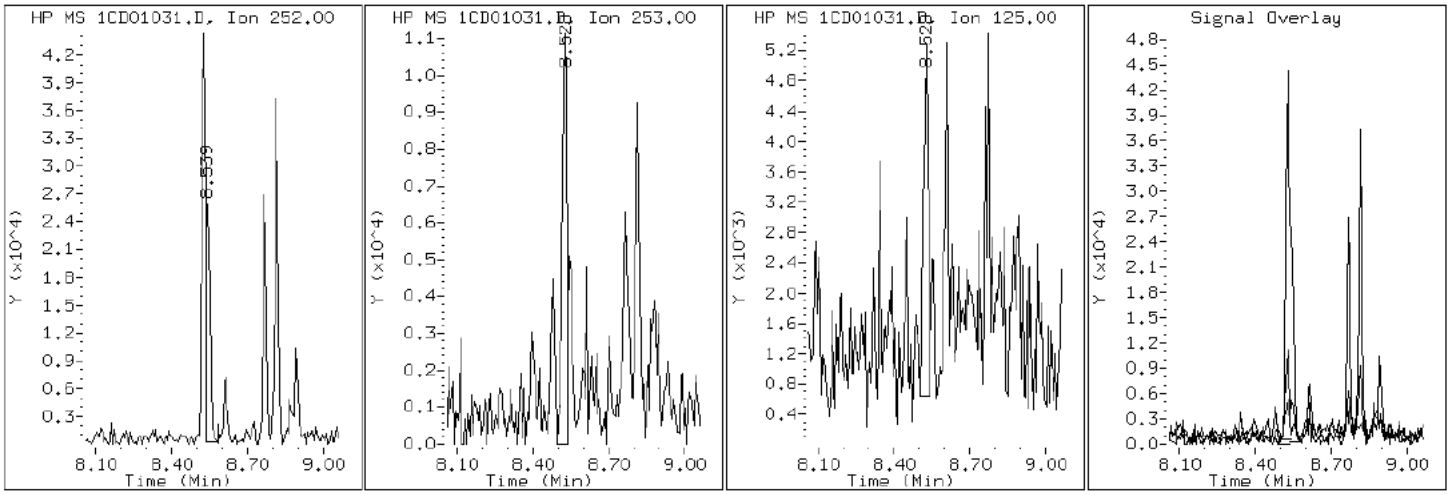
Data File: 1CD01031.D

Date: 01-APR-2013 20:21

Client ID: FM0346B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-38-a Operator: SCC

21 Benzo(k)fluoranthene



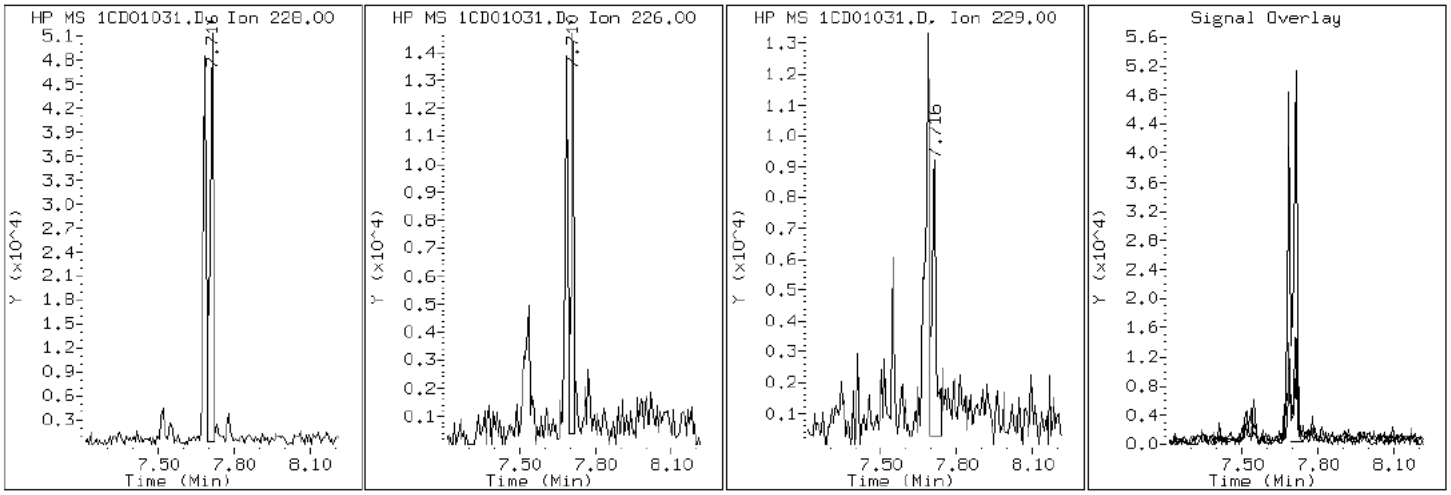
Data File: 1CD01031.D

Date: 01-APR-2013 20:21

Client ID: FM0346B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-38-a Operator: SCC

19 Chrysene



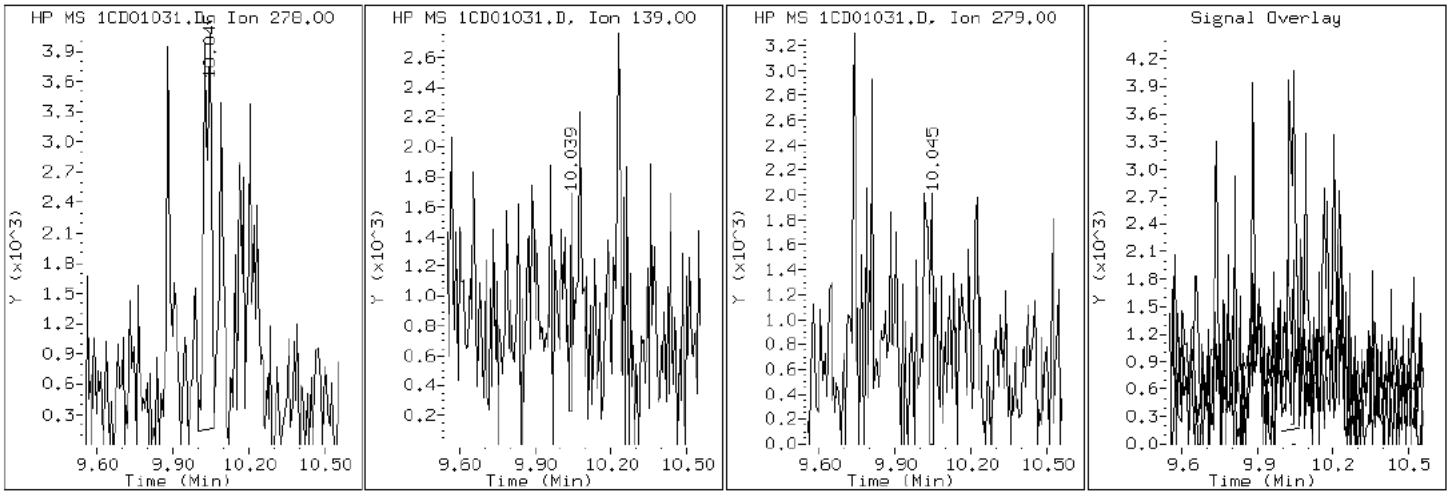
Data File: 1CD01031.D

Date: 01-APR-2013 20:21

Client ID: FM0346B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-38-a Operator: SCC

25 Dibenzo(a,h)anthracene



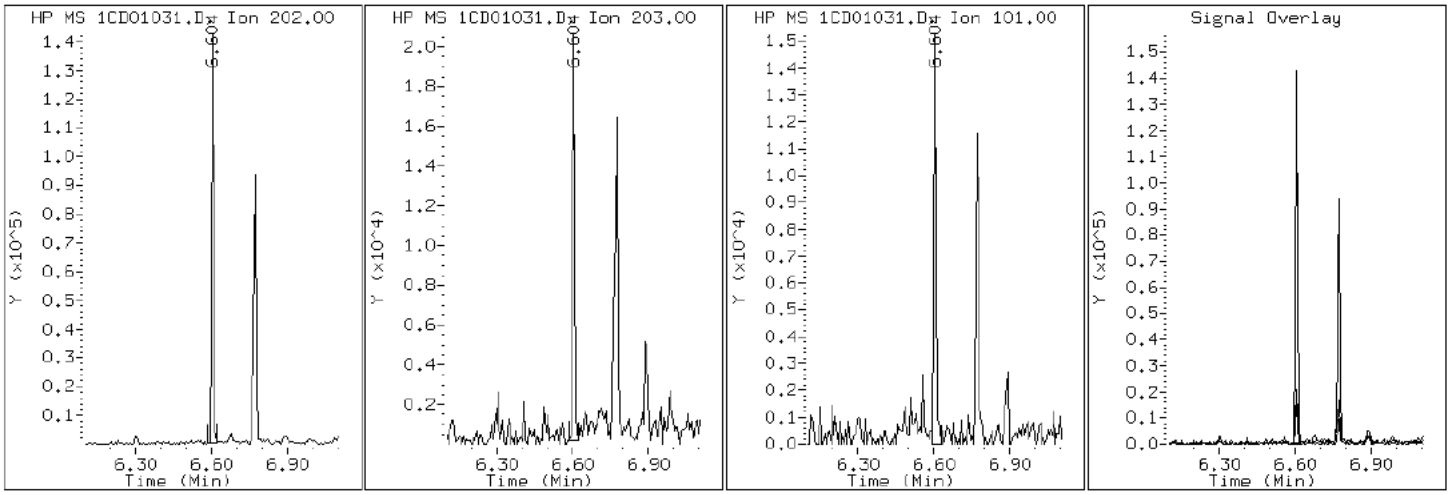
Data File: 1CD01031.D

Date: 01-APR-2013 20:21

Client ID: FM0346B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-38-a Operator: SCC

15 Fluoranthene



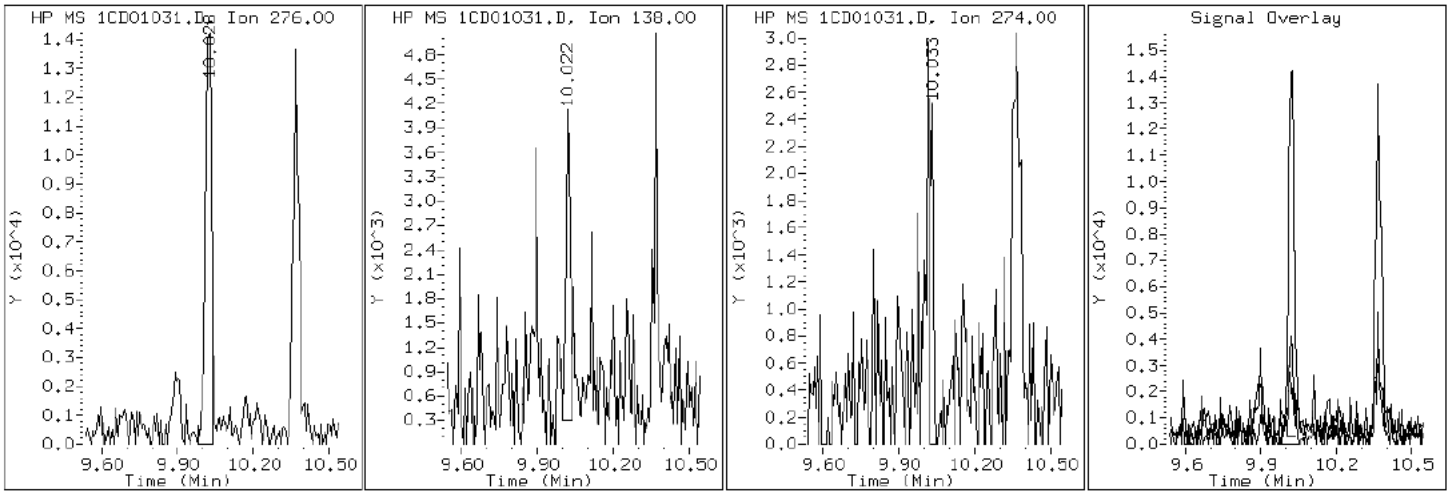
Data File: 1CD01031.D

Date: 01-APR-2013 20:21

Client ID: FM0346B-CS | Instrument: BSMC5973.i

Sample Info: 680-88632-a-38-a | Operator: SCC

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



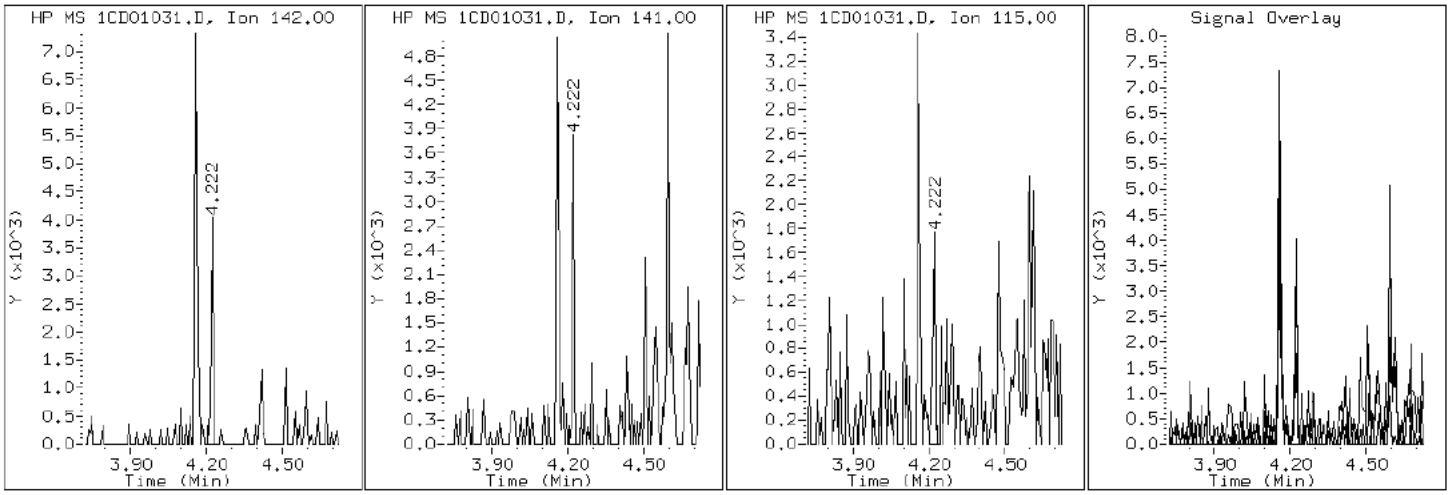
Data File: 1CD01031.D

Date: 01-APR-2013 20:21

Client ID: FM0346B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-38-a Operator: SCC

4 1-Methylnaphthalene



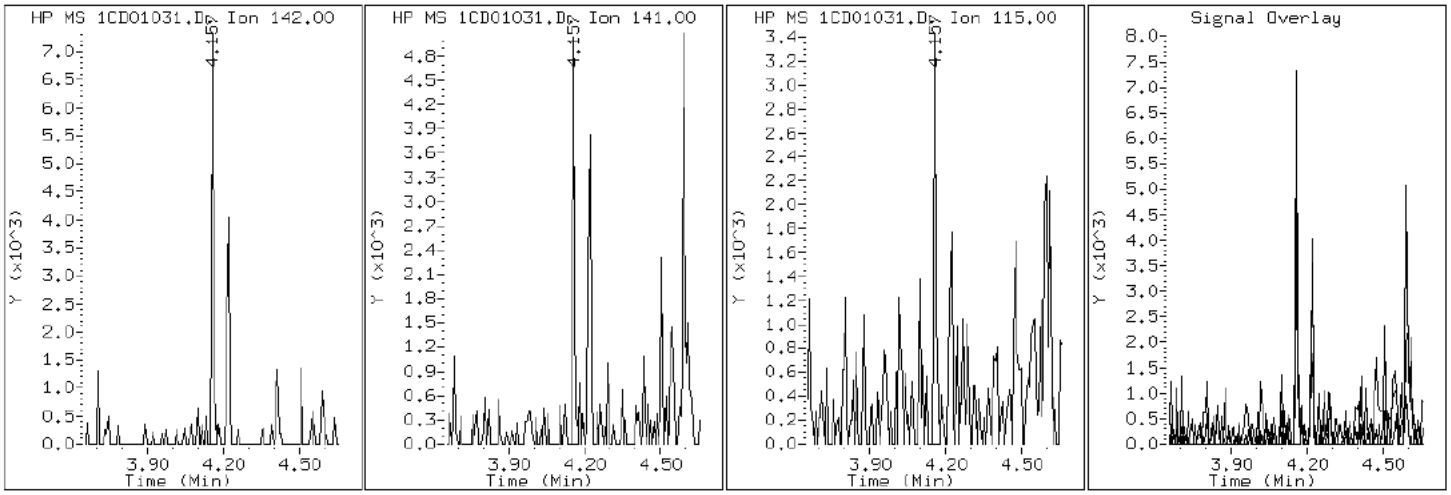
Data File: 1CD01031.D

Date: 01-APR-2013 20:21

Client ID: FM0346B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-38-a Operator: SCC

3 2-Methylnaphthalene



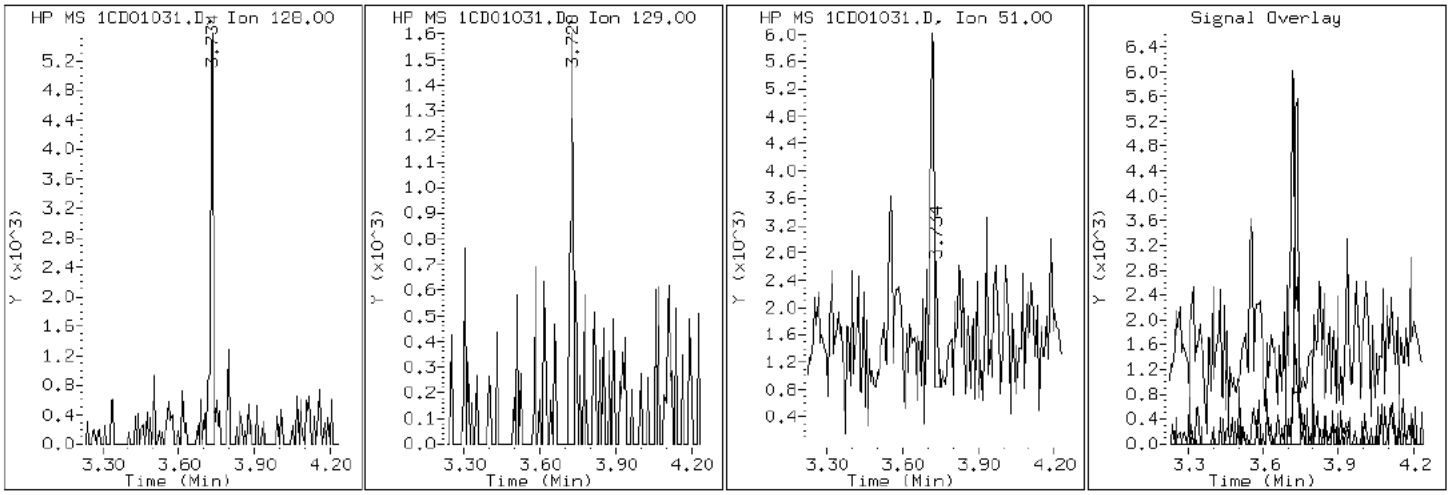
Data File: 1CD01031.D

Date: 01-APR-2013 20:21

Client ID: FM0346B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-38-a Operator: SCC

2 Naphthalene



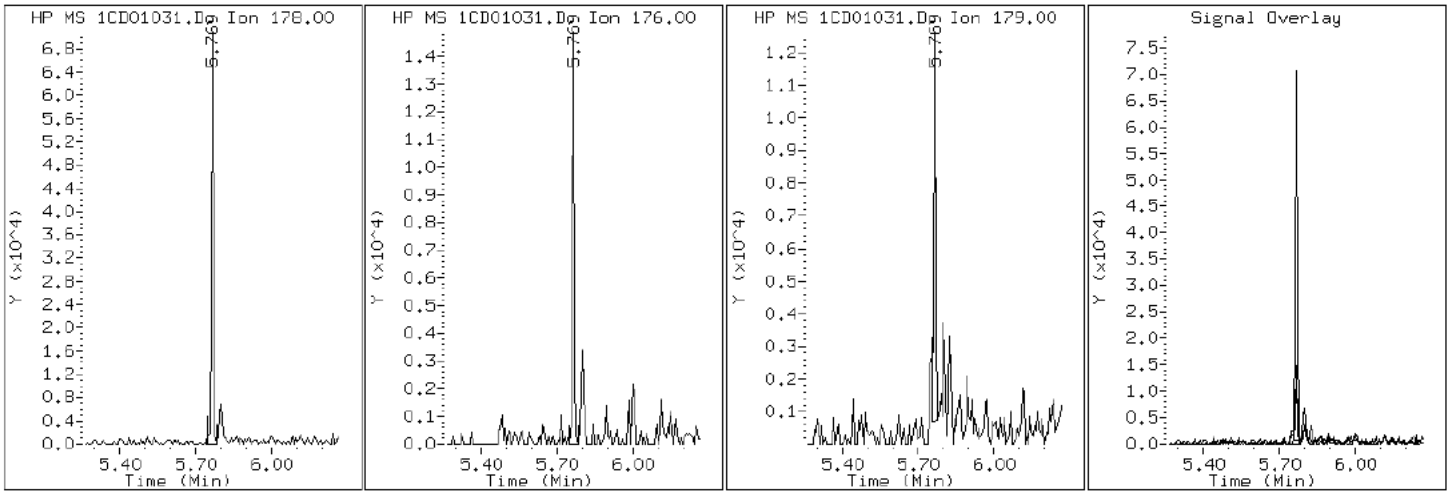
Data File: 1CD01031.D

Date: 01-APR-2013 20:21

Client ID: FM0346B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-38-a Operator: SCC

11 Phenanthrene



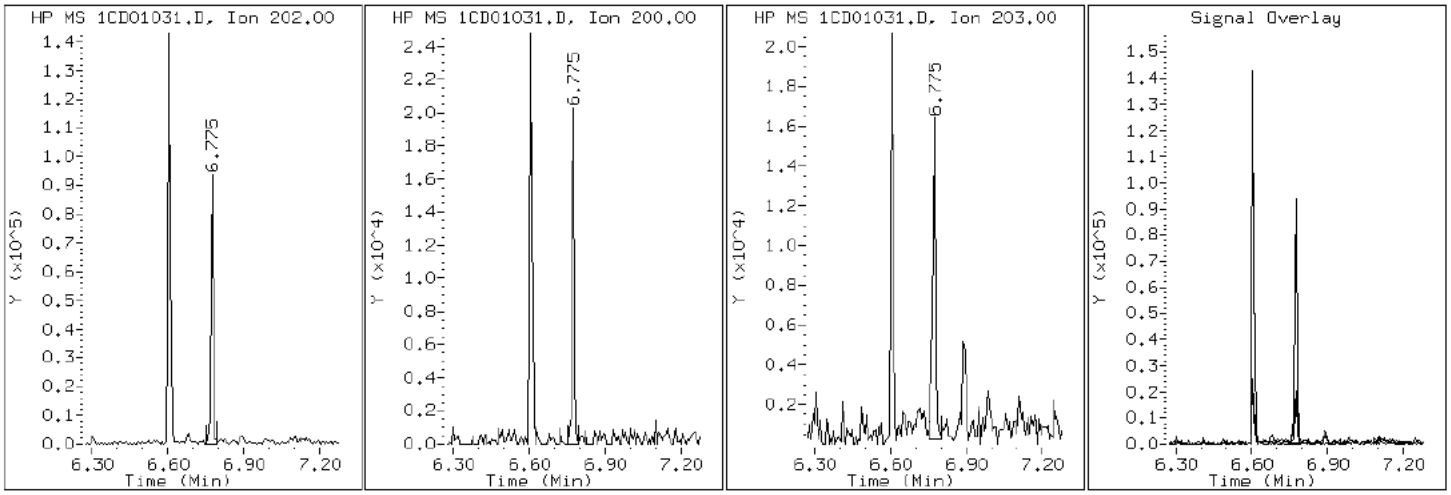
Data File: 1CD01031.D

Date: 01-APR-2013 20:21

Client ID: FM0346B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-38-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD01031.D
Inj. Date and Time: 01-APR-2013 20:21
Instrument ID: BSMC5973.i
Client ID: FM0346B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

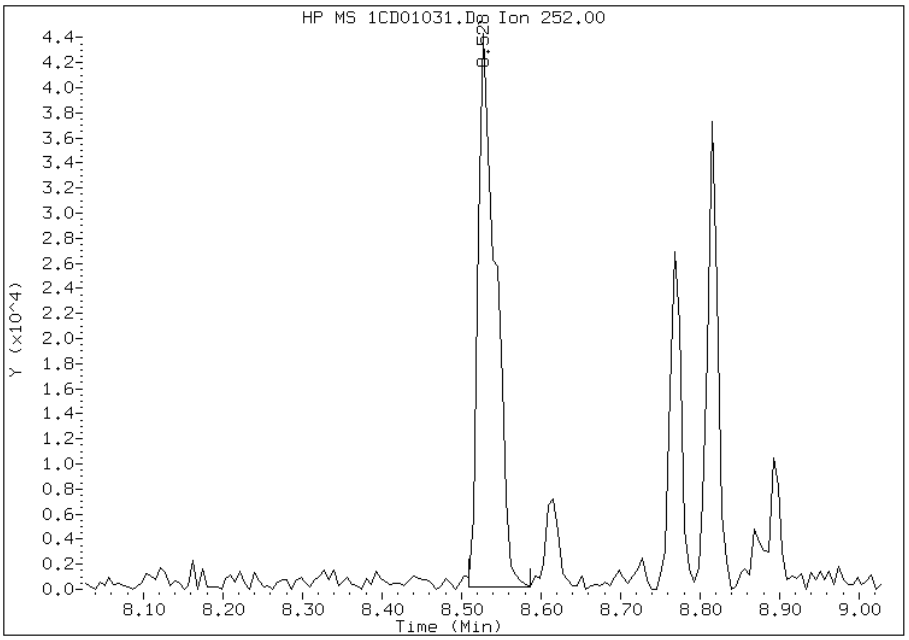
Processing Integration Results

RT: 8.53

Response: 67861

Amount: 3

Conc: 942



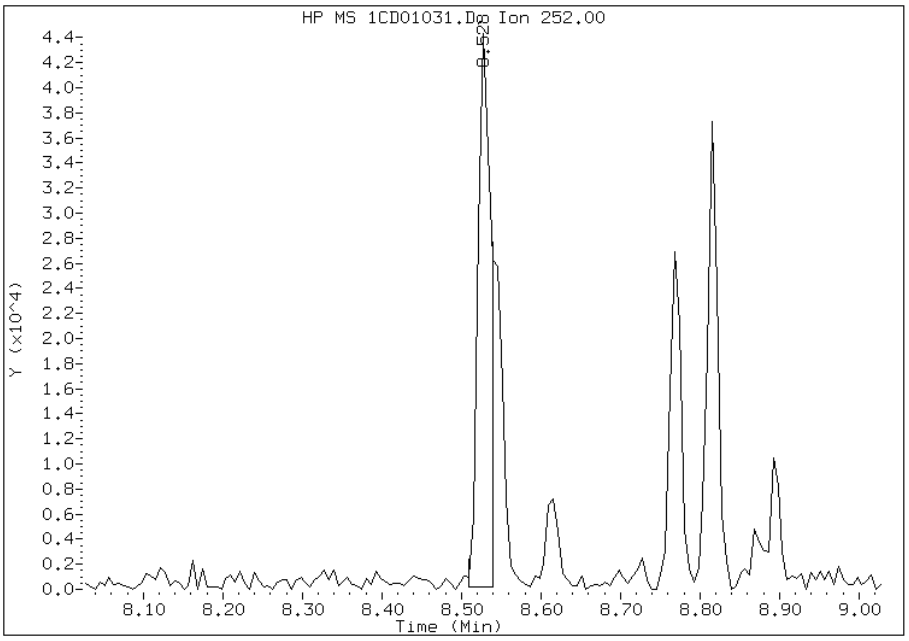
Manual Integration Results

RT: 8.53

Response: 49384

Amount: 2

Conc: 686



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:12
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD01031.D
Inj. Date and Time: 01-APR-2013 20:21
Instrument ID: BSMC5973.i
Client ID: FM0346B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/03/2013

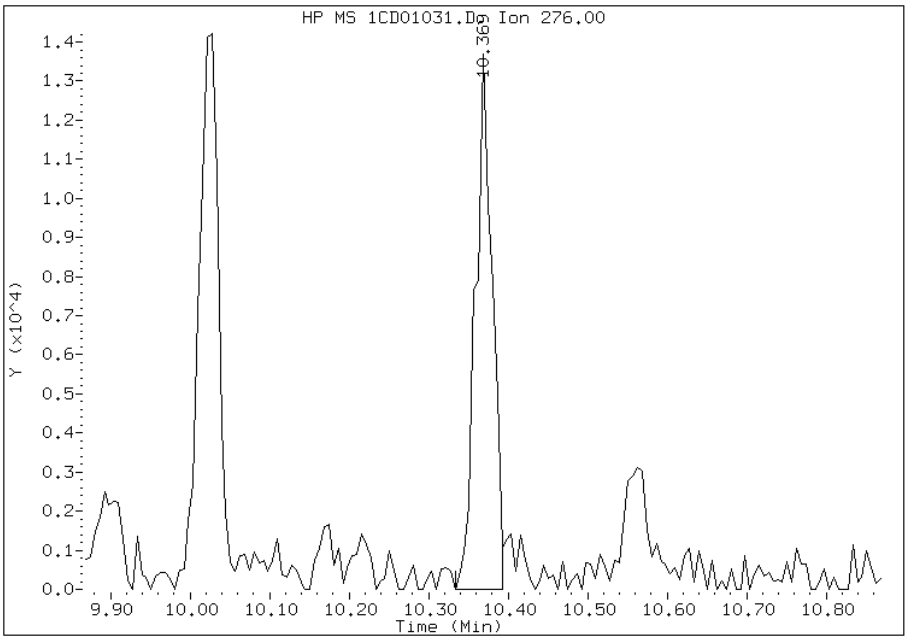
Processing Integration Results

RT: 10.37

Response: 19919

Amount: 1

Conc: 289



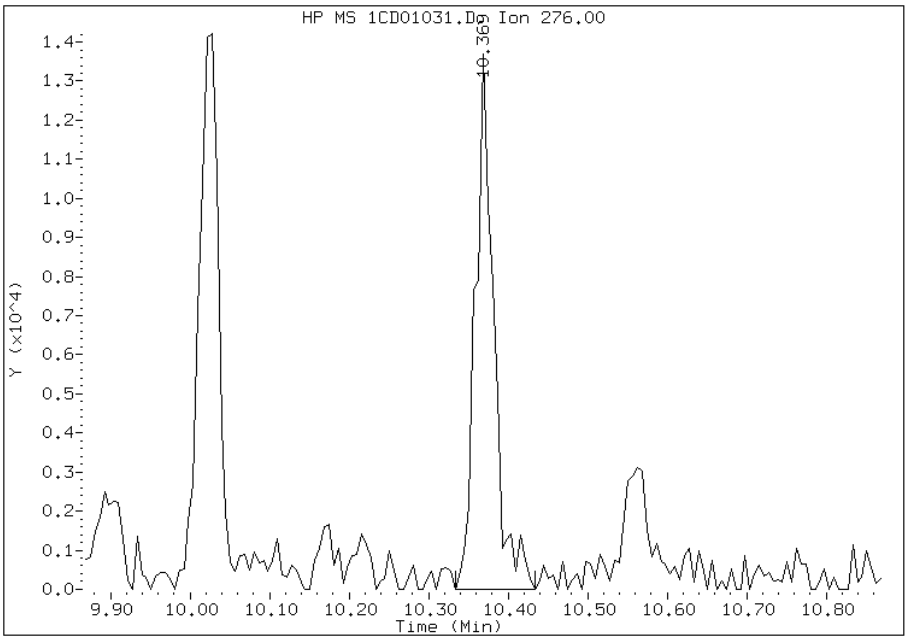
Manual Integration Results

RT: 10.37

Response: 21900

Amount: 1

Conc: 318



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01031.D
Inj. Date and Time: 01-APR-2013 20:21
Instrument ID: BSMC5973.i
Client ID: FM0346B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

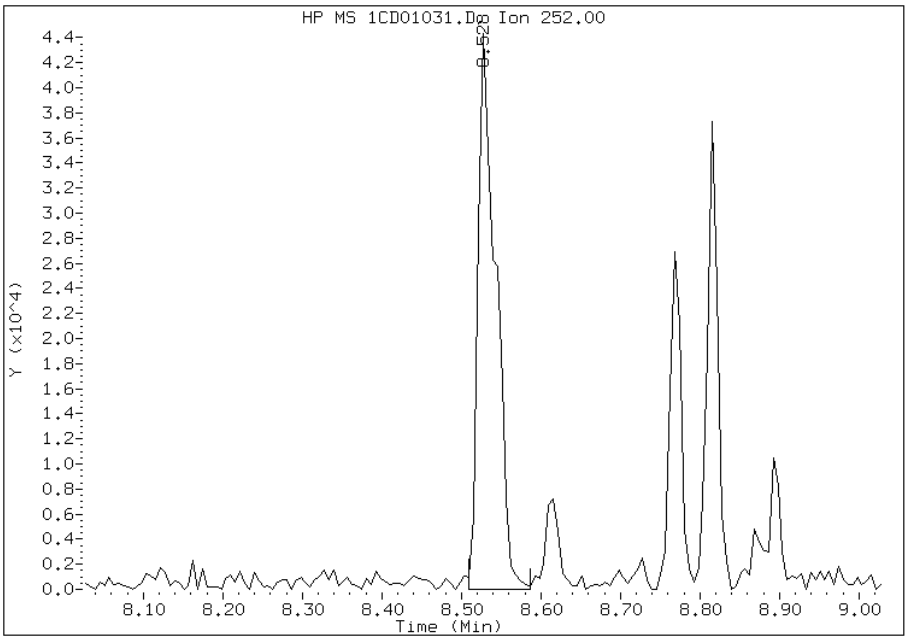
Processing Integration Results

RT: 8.53

Response: 68654

Amount: 3

Conc: 929



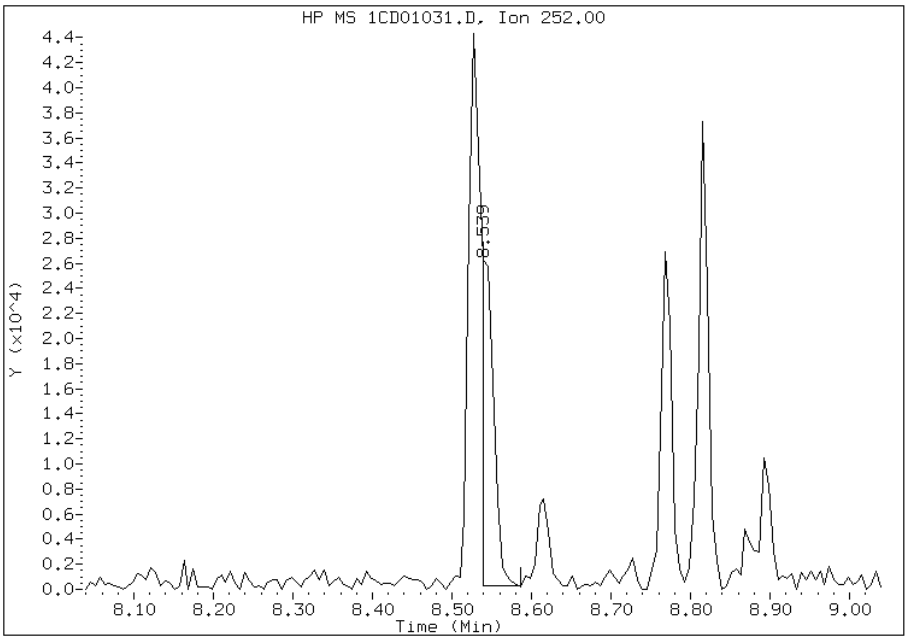
Manual Integration Results

RT: 8.54

Response: 27217

Amount: 1

Conc: 368



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01031.D
Inj. Date and Time: 01-APR-2013 20:21
Instrument ID: BSMC5973.i
Client ID: FM0346B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/03/2013

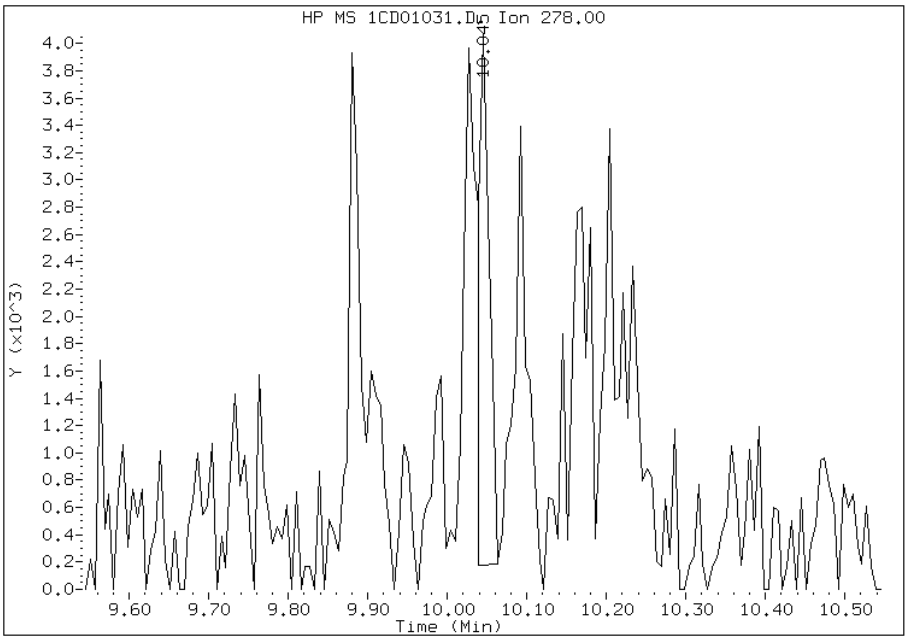
Processing Integration Results

RT: 10.05

Response: 3689

Amount: 0

Conc: 57



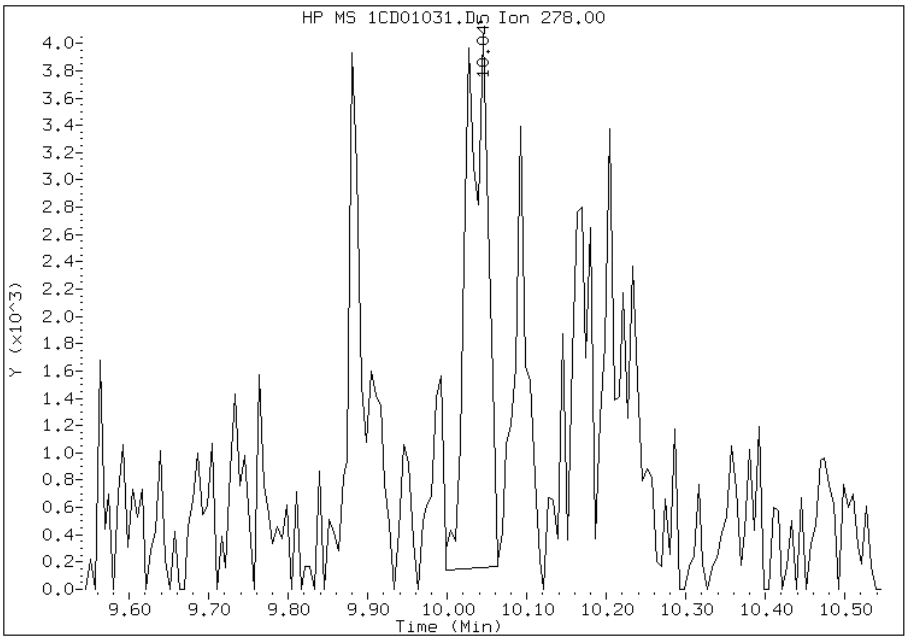
Manual Integration Results

RT: 10.05

Response: 7460

Amount: 0

Conc: 116



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01031.D
Inj. Date and Time: 01-APR-2013 20:21
Instrument ID: BSMC5973.i
Client ID: FM0346B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

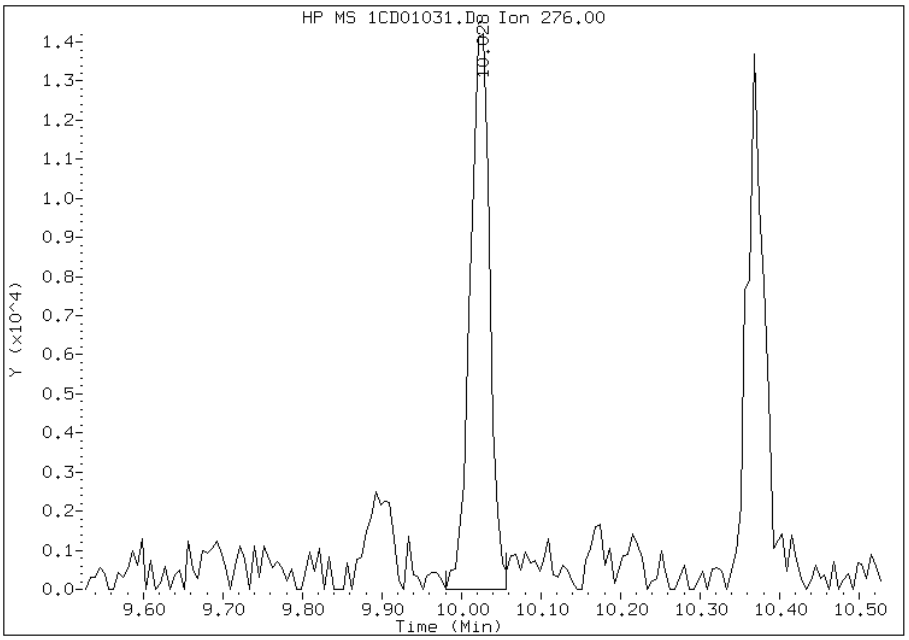
Processing Integration Results

RT: 10.03

Response: 24401

Amount: 1

Conc: 371



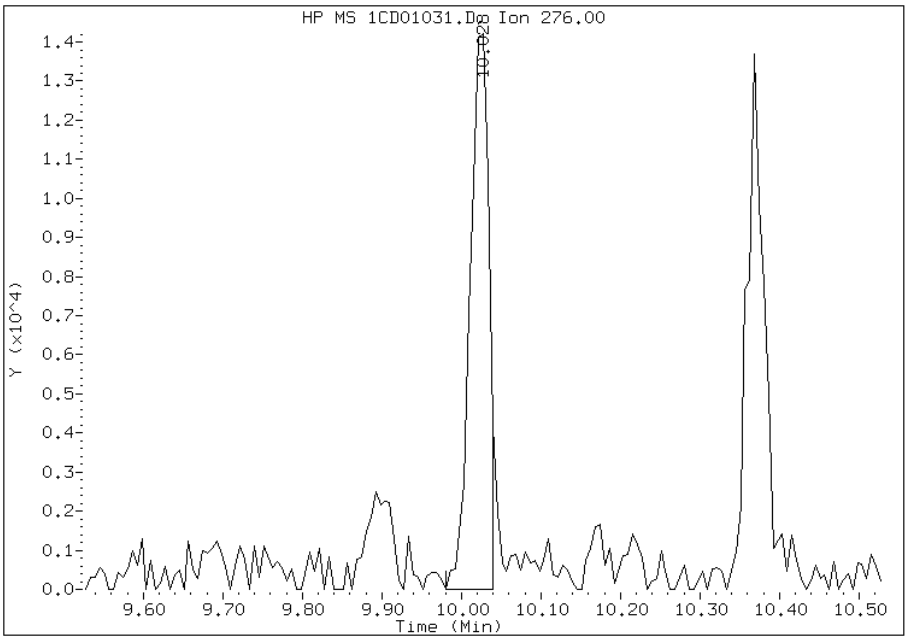
Manual Integration Results

RT: 10.03

Response: 23298

Amount: 1

Conc: 354



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: HP0323A-CS | Lab Sample ID: 680-88632-39

Matrix: Solid | Lab File ID: 1CD01032.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 16:00

Extract. Method: 3546 | Date Extracted: 03/27/2013 15:04

Sample wt/vol: 15.00(g) | Date Analyzed: 04/01/2013 20:39

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

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

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

Analysis Batch No.: 135996 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	34	J	51	6.3
120-12-7	Anthracene	48		11	5.3
56-55-3	Benzo[a]anthracene	270		10	4.9
50-32-8	Benzo[a]pyrene	260		13	6.6
205-99-2	Benzo[b]fluoranthene	480		15	7.7
191-24-2	Benzo[g,h,i]perylene	210		25	5.6
207-08-9	Benzo[k]fluoranthene	220		10	4.6
218-01-9	Chrysene	310		11	5.7
53-70-3	Dibenz(a,h)anthracene	68		25	5.2
206-44-0	Fluoranthene	330		25	5.1
86-73-7	Fluorene	20	J	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	200		25	9.0
90-12-0	1-Methylnaphthalene	120		51	5.6
91-57-6	2-Methylnaphthalene	130		51	9.0
91-20-3	Naphthalene	120		51	5.6
85-01-8	Phenanthrene	220		10	4.9
129-00-0	Pyrene	300		25	4.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01032.D
Lab Smp Id: 680-88632-A-39-A Client Smp ID: HP0323A-CS
Inj Date : 01-APR-2013 20:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-39-a
Misc Info : 680-88632-A-39-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	21.140	% 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	3.716	3.716	(1.000)	800398	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	603115	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	1079437	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	75620	4.63993	392.2497
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1234420	40.0000	
* 23 Perylene-d12	264	8.874	8.886	(1.000)	1104964	40.0000	
2 Naphthalene	128	3.733	3.733	(1.005)	30363	1.45714	123.1835
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	21858	1.57258	132.9425
4 1-Methylnaphthalene	142	4.221	4.222	(1.136)	18358	1.45019	122.5955
5 Acenaphthylene	152	4.716	4.716	(0.982)	9911	0.40760	34.4573
9 Fluorene	166	5.151	5.145	(1.072)	4449	0.23276	19.6772(Q)
11 Phenanthrene	178	5.768	5.768	(1.003)	80656	2.58409	218.4533
12 Anthracene	178	5.804	5.804	(1.009)	17402	0.57008	48.1931
13 Carbazole	167	5.910	5.910	(1.028)	10007	0.36878	31.1761

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.604	6.604	(1.148)	133564	3.90749	330.3310
16 Pyrene	202	6.774	6.774	(0.881)	116460	3.51066	296.7835
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	112112	3.14676	266.0204
19 Chrysene	228	7.715	7.715	(1.003)	131173	3.67900	311.0149
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.961)	163439	5.65987	478.4732(M)
21 Benzo(k)fluoranthene	252	8.539	8.562	(0.962)	76646	2.58737	218.7307(MH)
22 Benzo(a)pyrene	252	8.815	8.827	(0.993)	85139	3.03538	256.6047
24 Indeno(1,2,3-cd)pyrene	276	10.027	10.039	(1.130)	62039	2.35121	198.7659(M)
25 Dibenzo(a,h)anthracene	278	10.045	10.056	(1.132)	20854	0.80801	68.3070
26 Benzo(g,h,i)perylene	276	10.368	10.386	(1.168)	67998	2.46352	208.2604

QC Flag Legend

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

Data File: 1CD01032.D

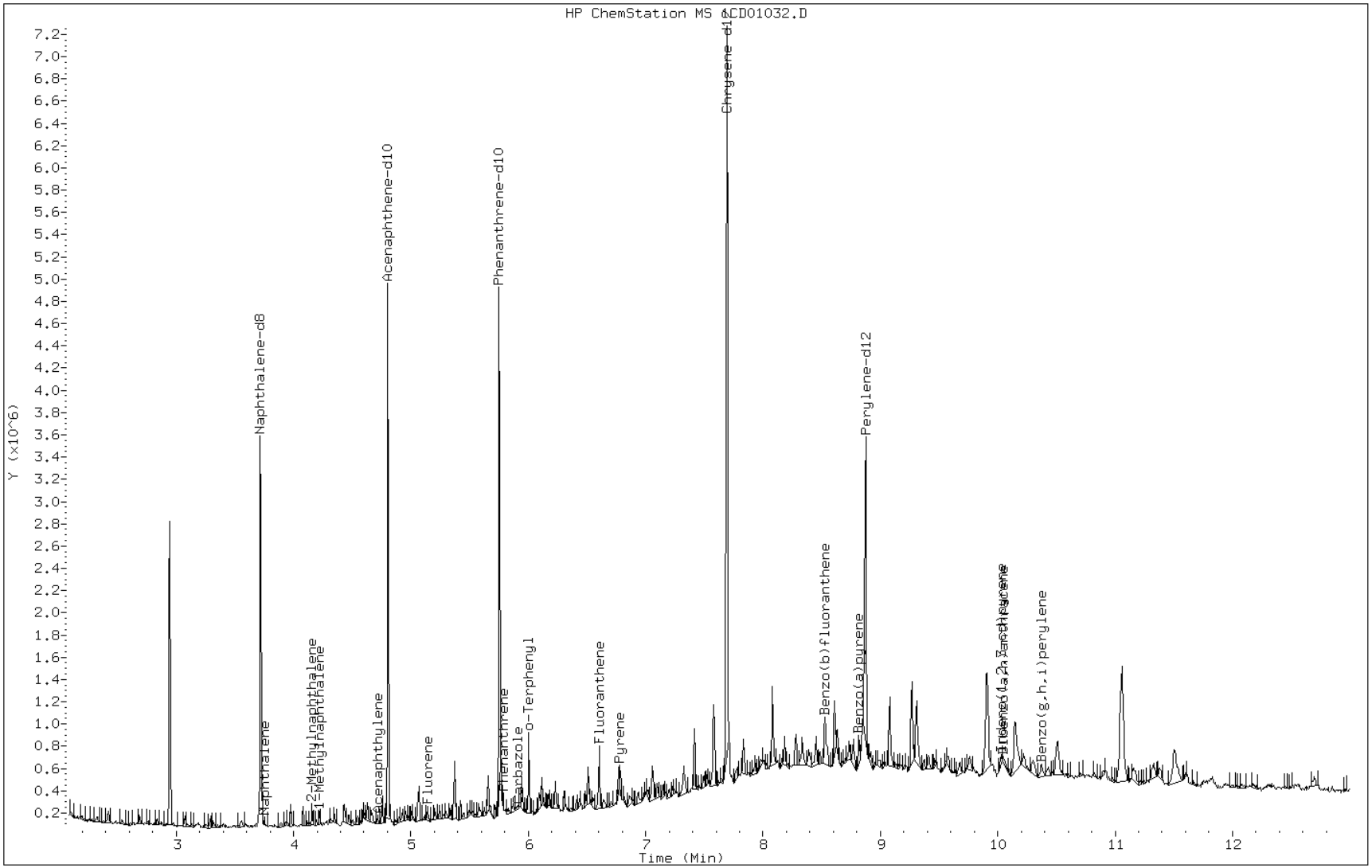
Date: 01-APR-2013 20:39

Client ID: HP0323A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a

Operator: SCC



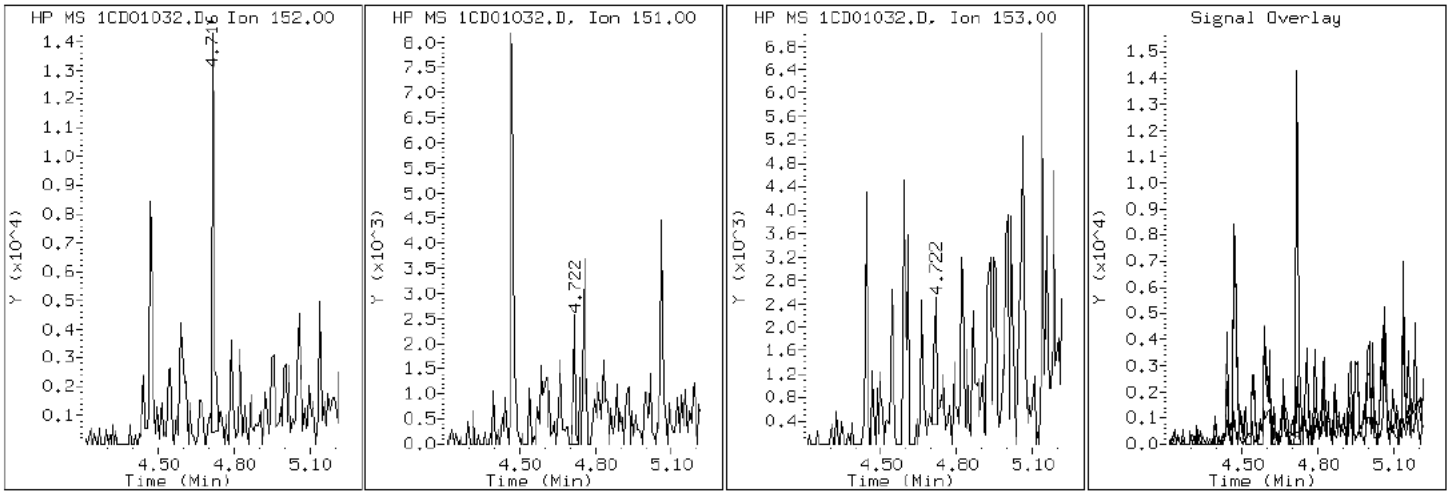
Data File: 1CD01032.D

Date: 01-APR-2013 20:39

Client ID: HP0323A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a Operator: SCC

5 Acenaphthylene



Data File: 1CD01032.D

Date: 01-APR-2013 20:39

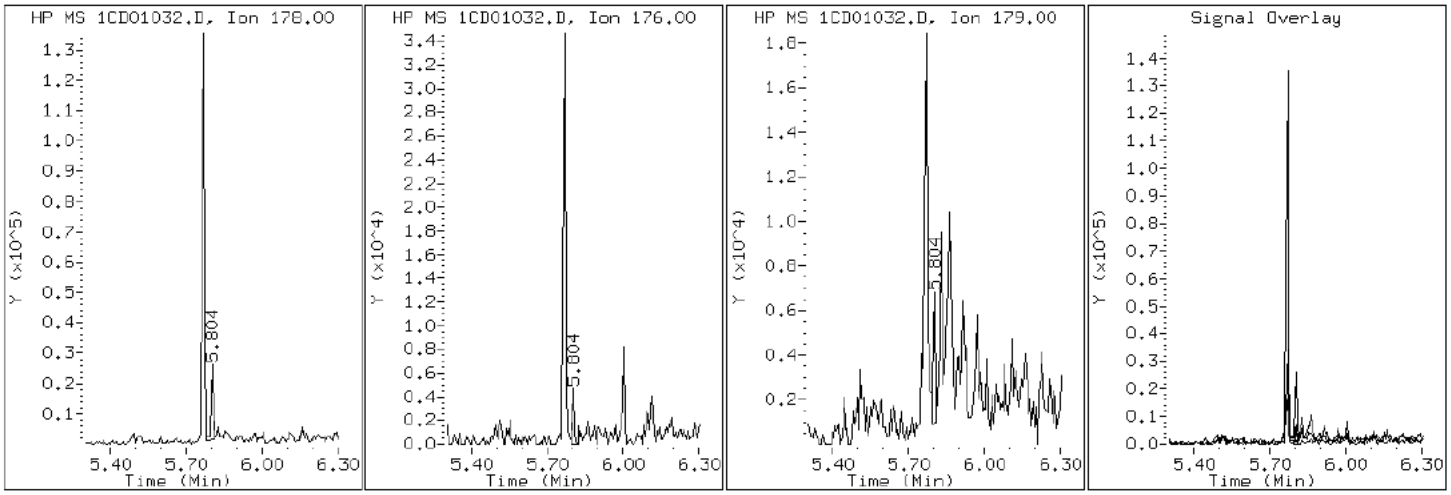
Client ID: HP0323A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a

Operator: SCC

12 Anthracene



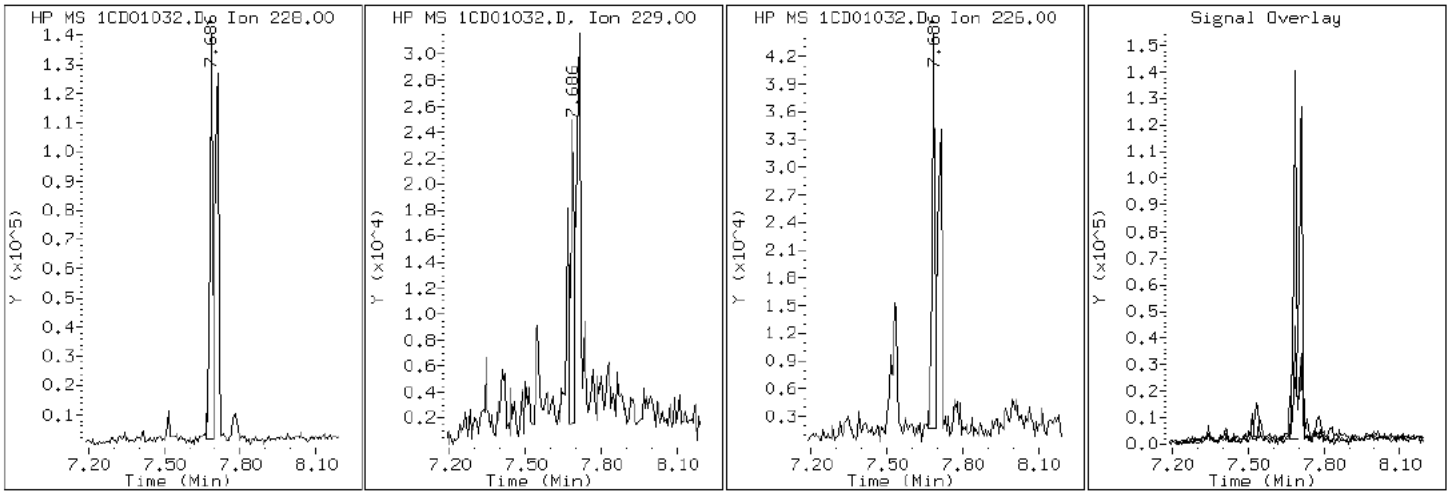
Data File: 1CD01032.D

Date: 01-APR-2013 20:39

Client ID: HP0323A-CS | Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a | Operator: SCC

17 Benzo(a)anthracene



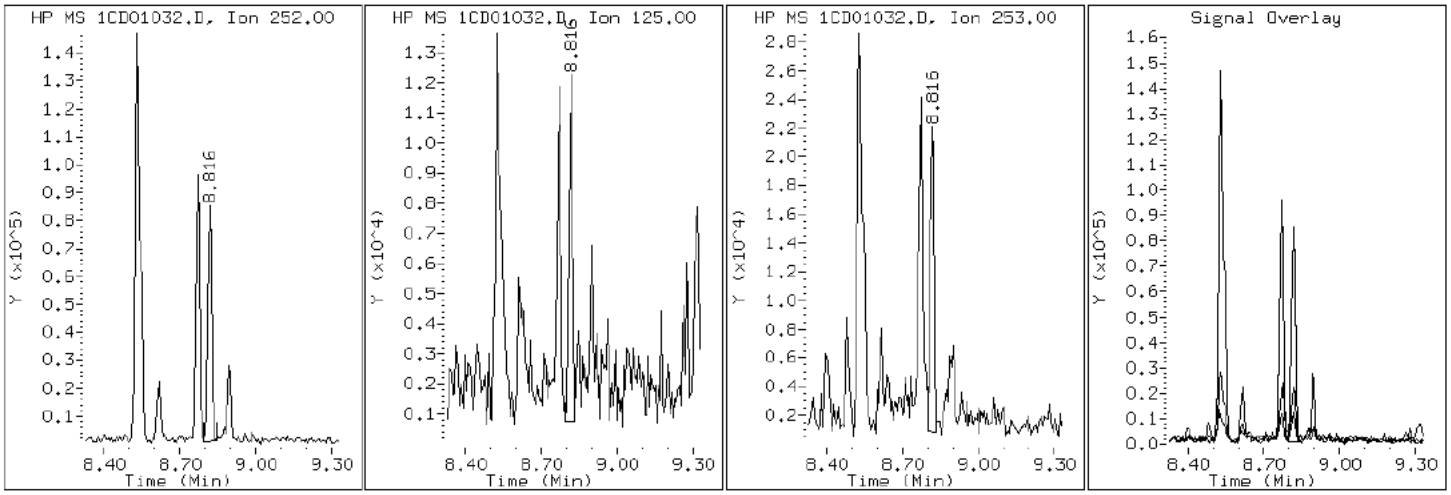
Data File: 1CD01032.D

Date: 01-APR-2013 20:39

Client ID: HP0323A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a Operator: SCC

22 Benzo(a)pyrene



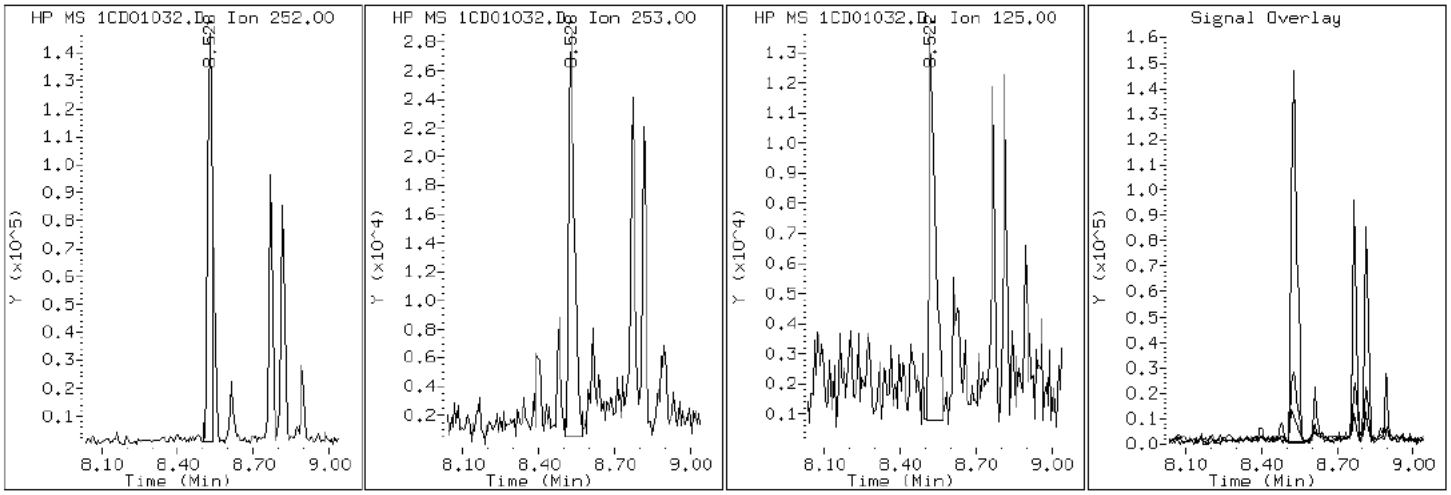
Data File: 1CD01032.D

Date: 01-APR-2013 20:39

Client ID: HP0323A-CS | Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a | Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD01032.D

Date: 01-APR-2013 20:39

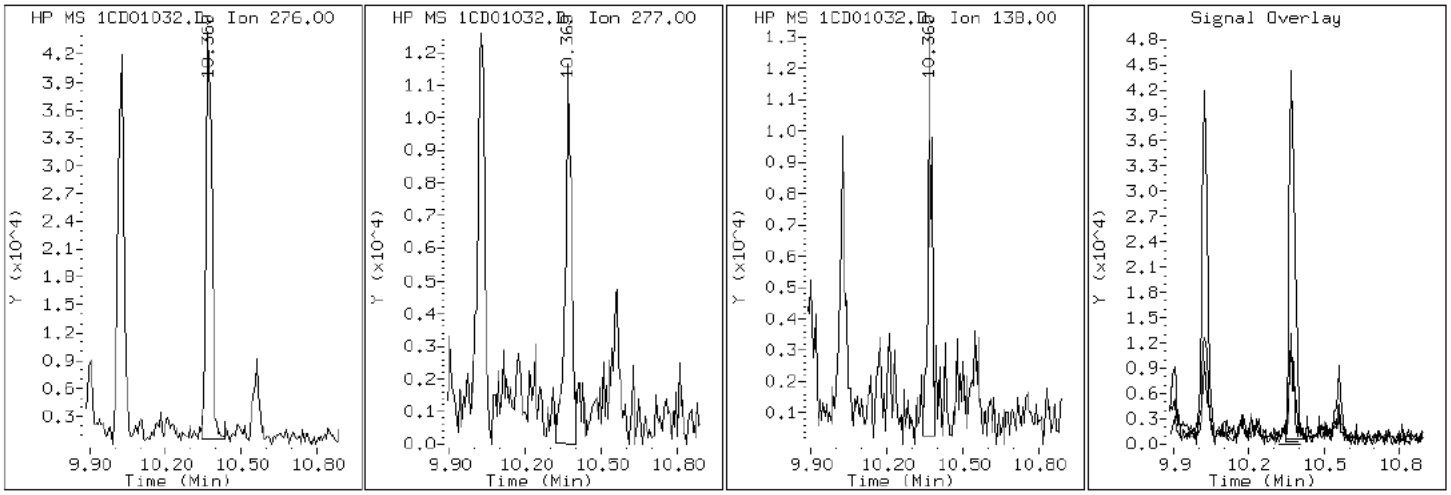
Client ID: HP0323A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a

Operator: SCC

26 Benzo(g,h,i)perylene



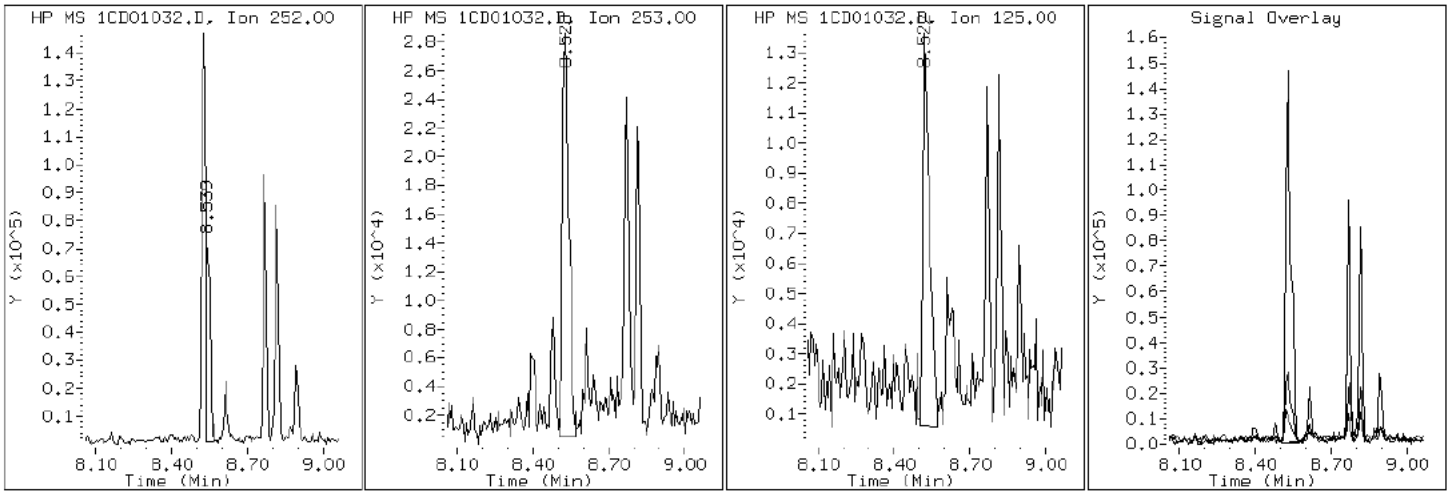
Data File: 1CD01032.D

Date: 01-APR-2013 20:39

Client ID: HP0323A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a Operator: SCC

21 Benzo(k)fluoranthene



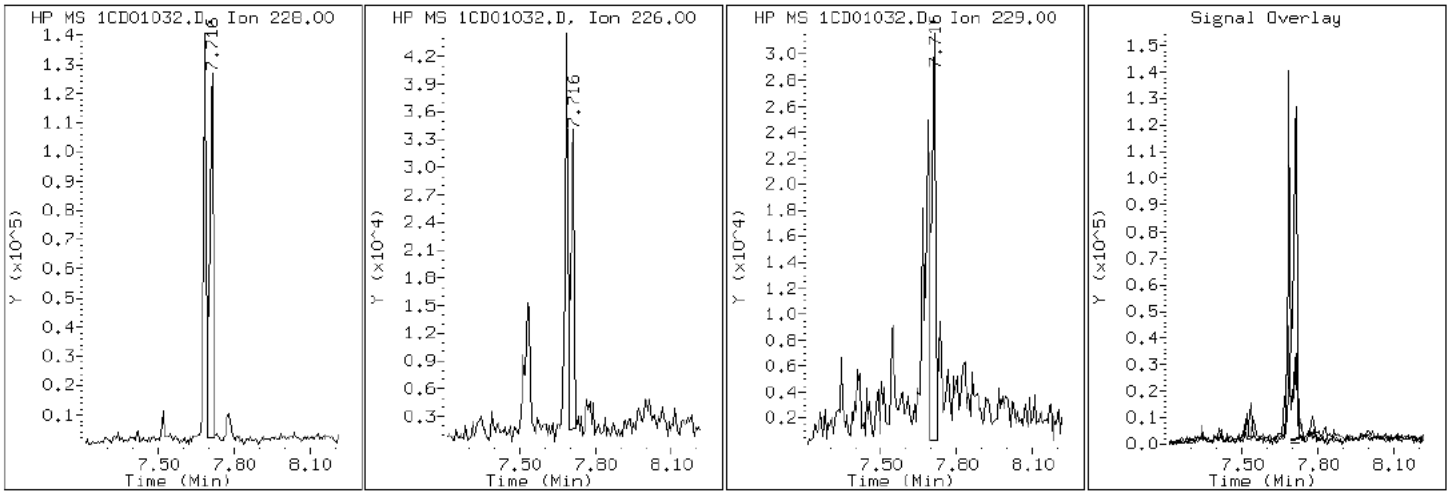
Data File: 1CD01032.D

Date: 01-APR-2013 20:39

Client ID: HP0323A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a Operator: SCC

19 Chrysene



Data File: 1CD01032.D

Date: 01-APR-2013 20:39

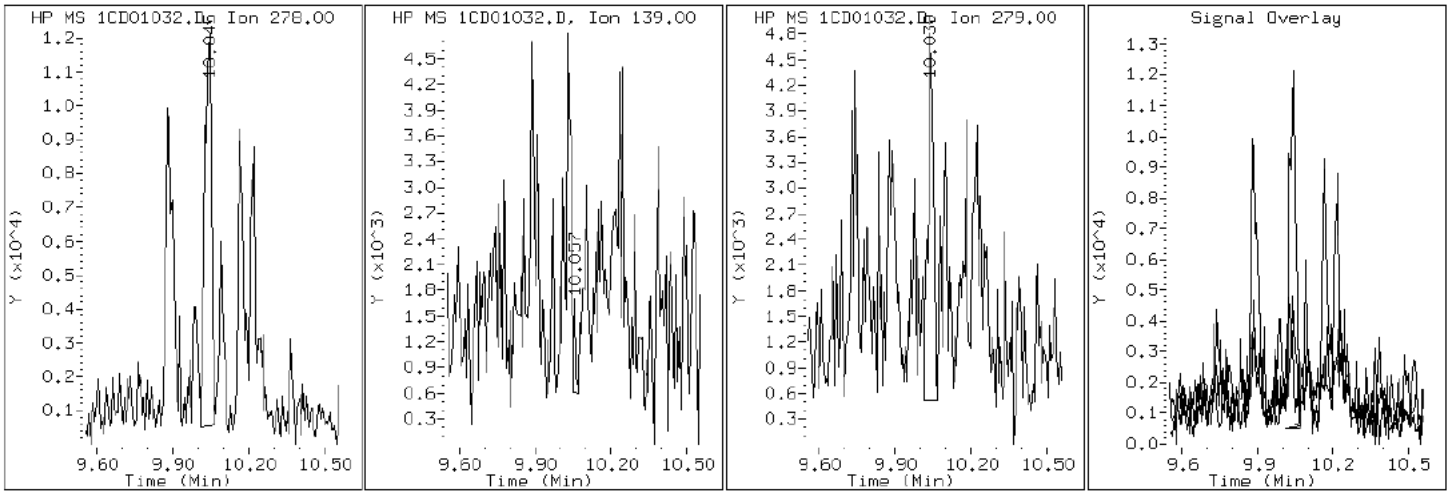
Client ID: HP0323A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD01032.D

Date: 01-APR-2013 20:39

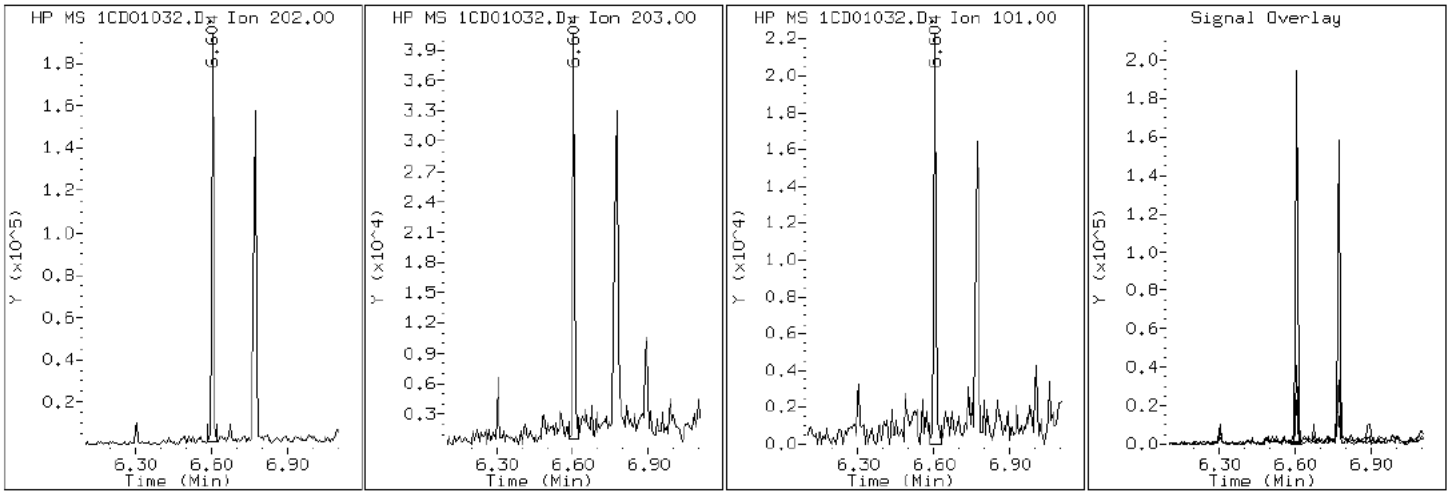
Client ID: HP0323A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a

Operator: SCC

15 Fluoranthene



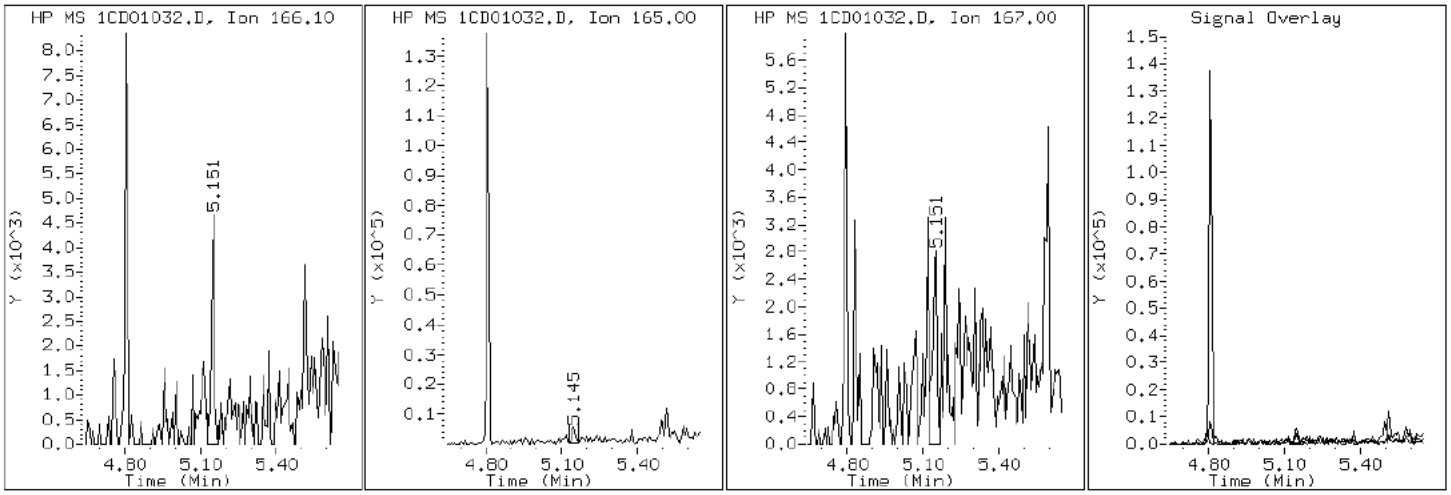
Data File: 1CD01032.D

Date: 01-APR-2013 20:39

Client ID: HP0323A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a Operator: SCC

9 Fluorene



Data File: 1CD01032.D

Date: 01-APR-2013 20:39

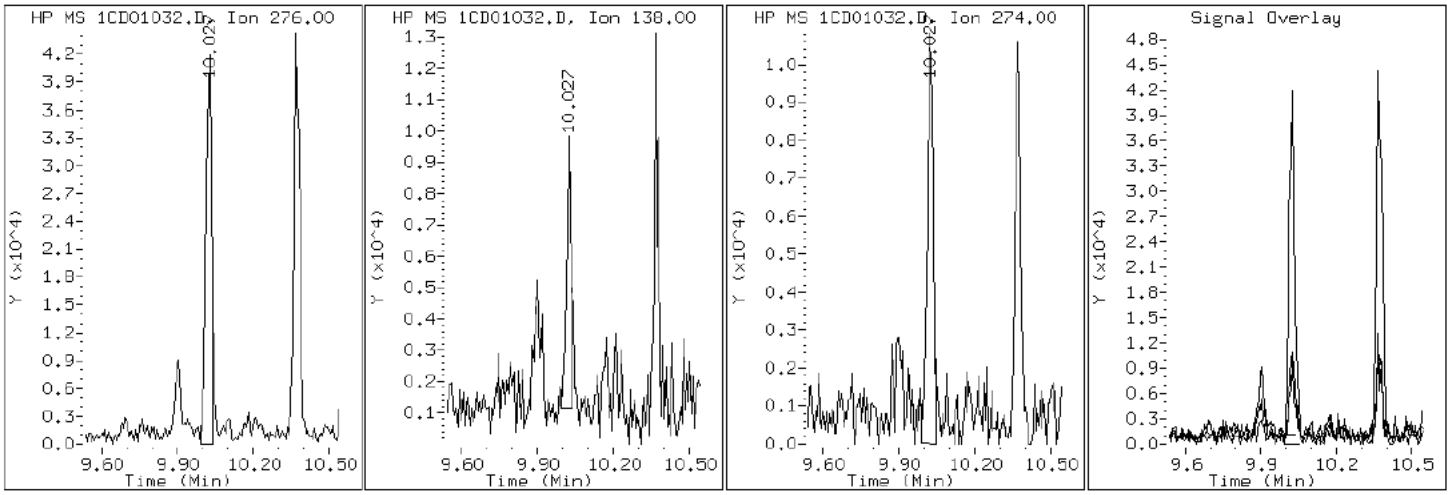
Client ID: HP0323A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a

Operator: SCC

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



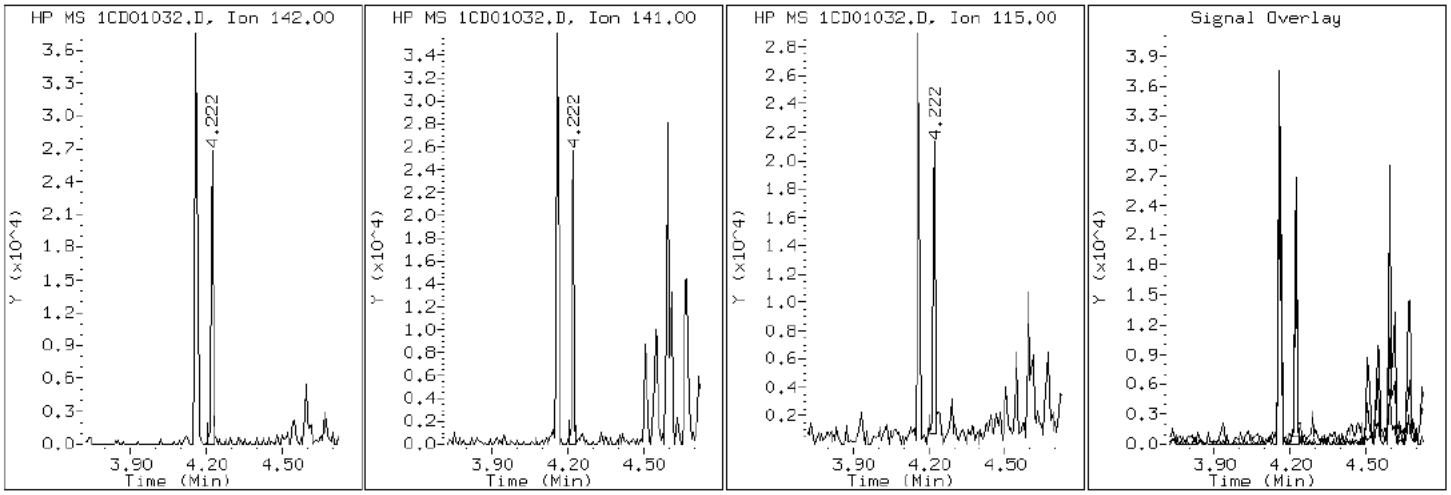
Data File: 1CD01032.D

Date: 01-APR-2013 20:39

Client ID: HP0323A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a Operator: SCC

4 1-Methylnaphthalene



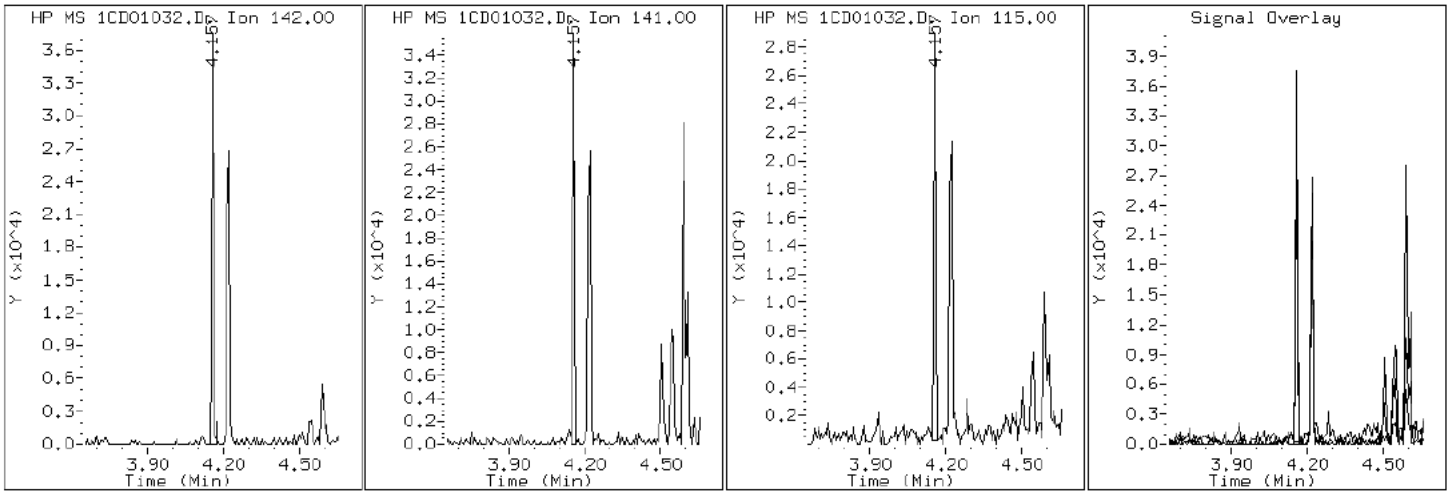
Data File: 1CD01032.D

Date: 01-APR-2013 20:39

Client ID: HP0323A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD01032.D

Date: 01-APR-2013 20:39

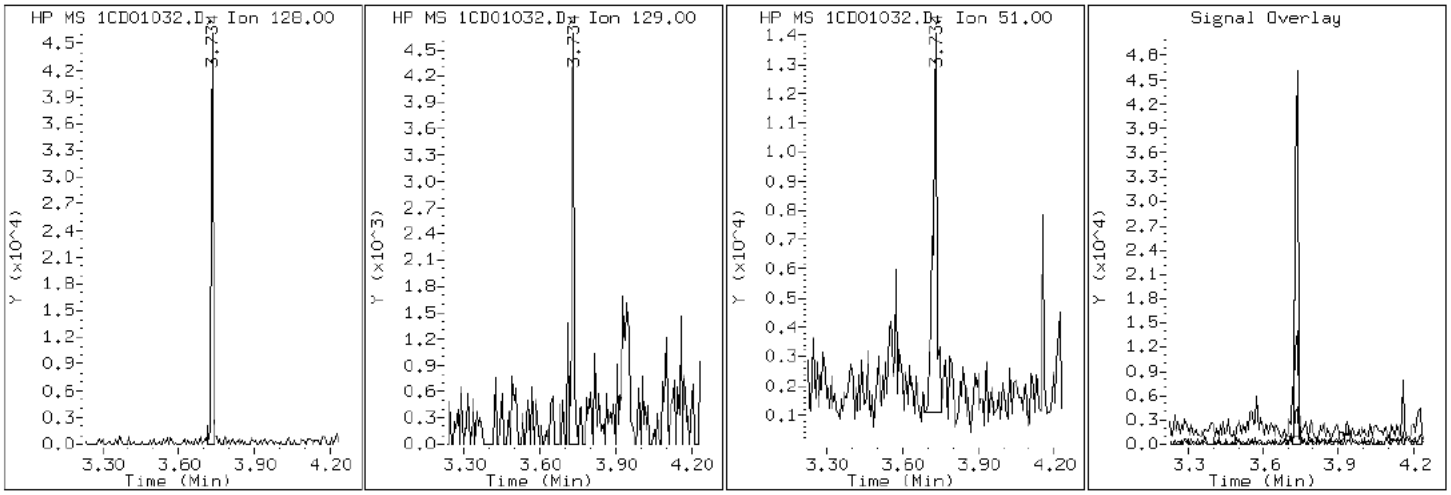
Client ID: HP0323A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a

Operator: SCC

2 Naphthalene



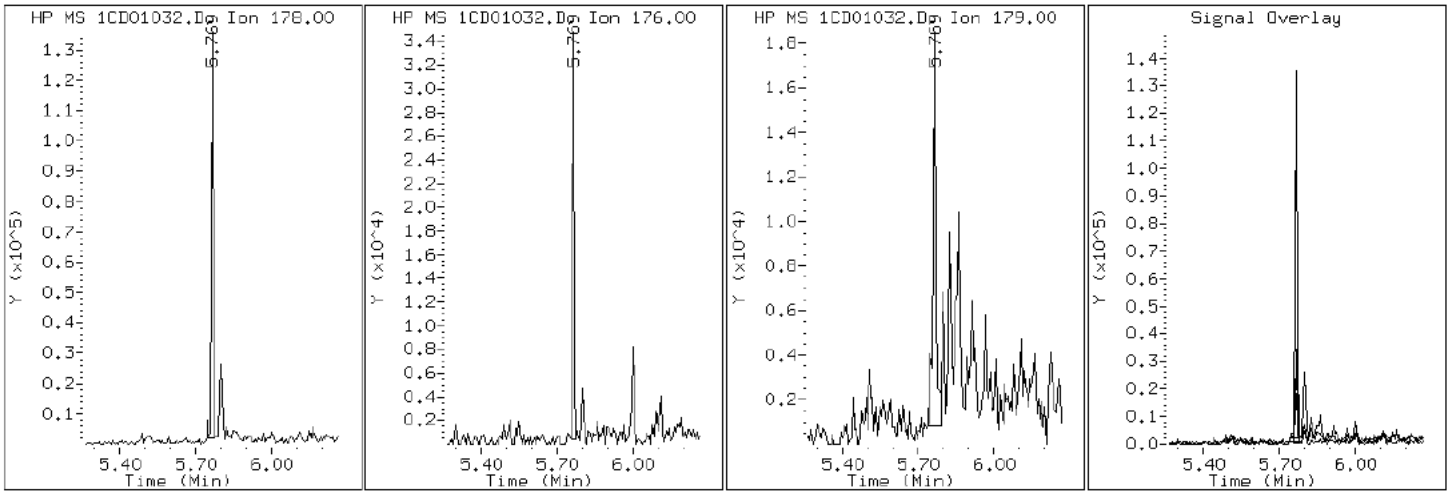
Data File: 1CD01032.D

Date: 01-APR-2013 20:39

Client ID: HP0323A-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a Operator: SCC

11 Phenanthrene



Data File: 1CD01032.D

Date: 01-APR-2013 20:39

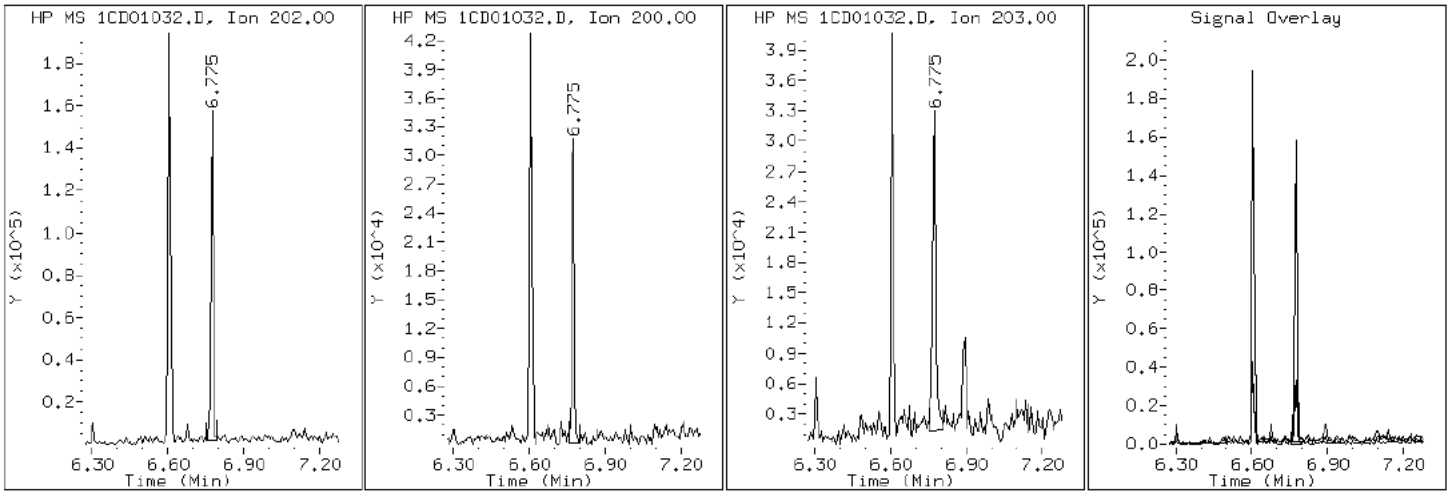
Client ID: HP0323A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-39-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD01032.D
Inj. Date and Time: 01-APR-2013 20:39
Instrument ID: BSMC5973.i
Client ID: HP0323A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

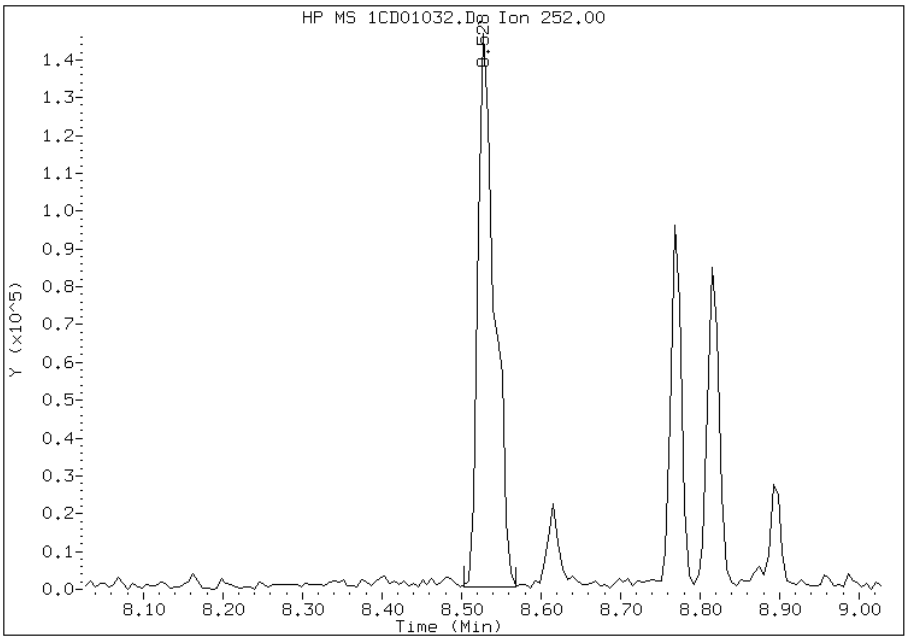
Processing Integration Results

RT: 8.53

Response: 214143

Amount: 7

Conc: 627



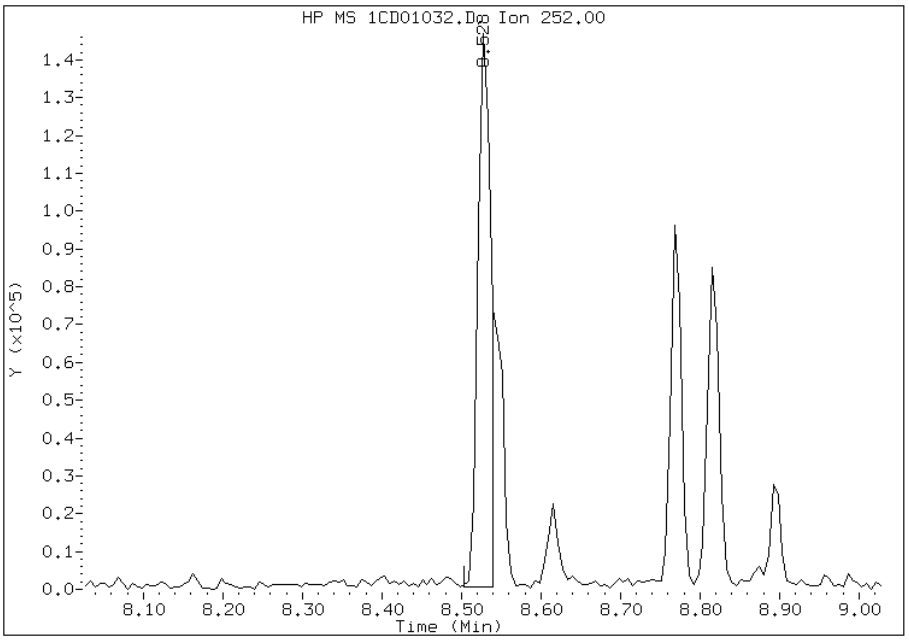
Manual Integration Results

RT: 8.53

Response: 163439

Amount: 6

Conc: 478



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:13
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD01032.D
Inj. Date and Time: 01-APR-2013 20:39
Instrument ID: BSMC5973.i
Client ID: HP0323A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

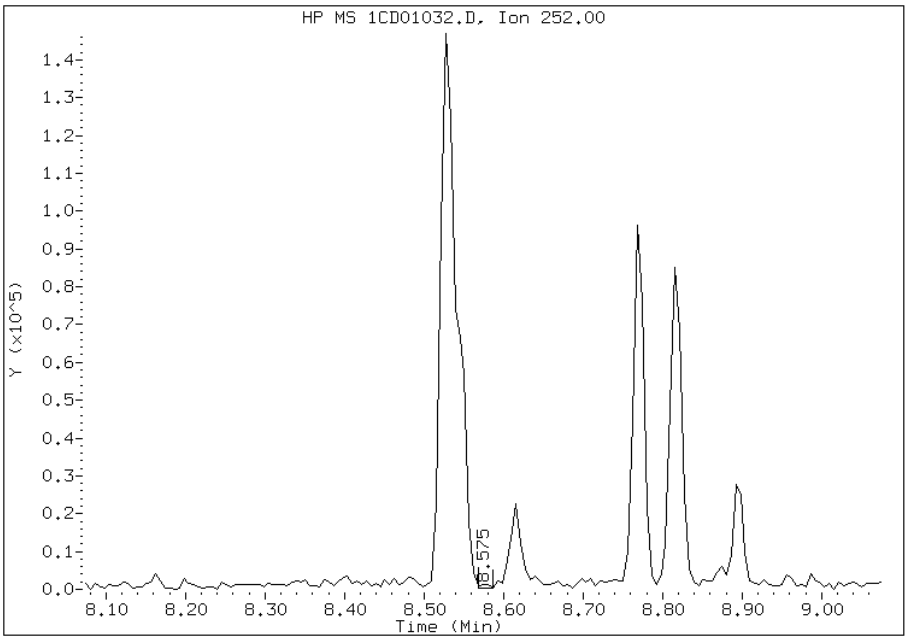
Processing Integration Results

RT: 8.57

Response: 860

Amount: 0

Conc: 2



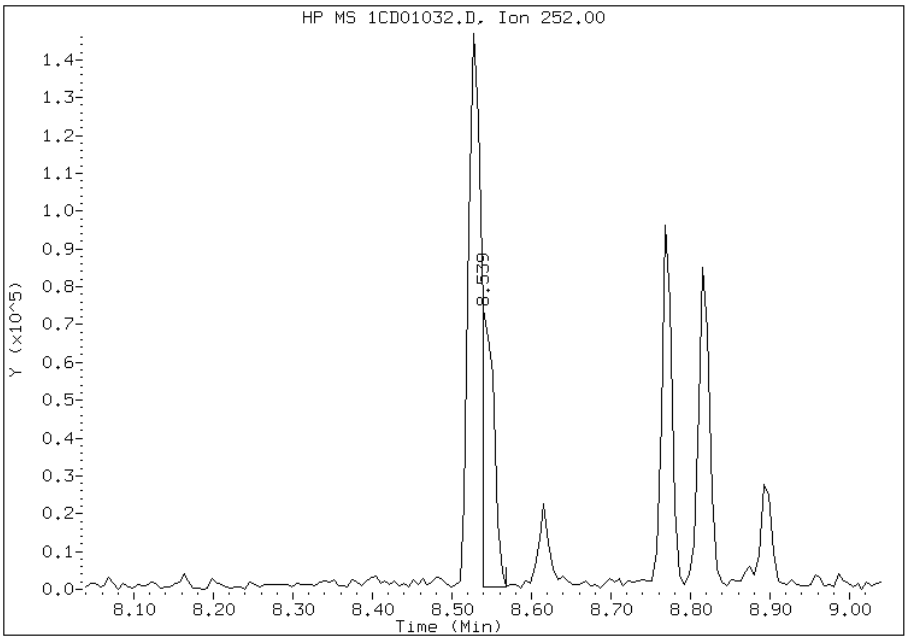
Manual Integration Results

RT: 8.54

Response: 76646

Amount: 3

Conc: 219



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01032.D
Inj. Date and Time: 01-APR-2013 20:39
Instrument ID: BSMC5973.i
Client ID: HP0323A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

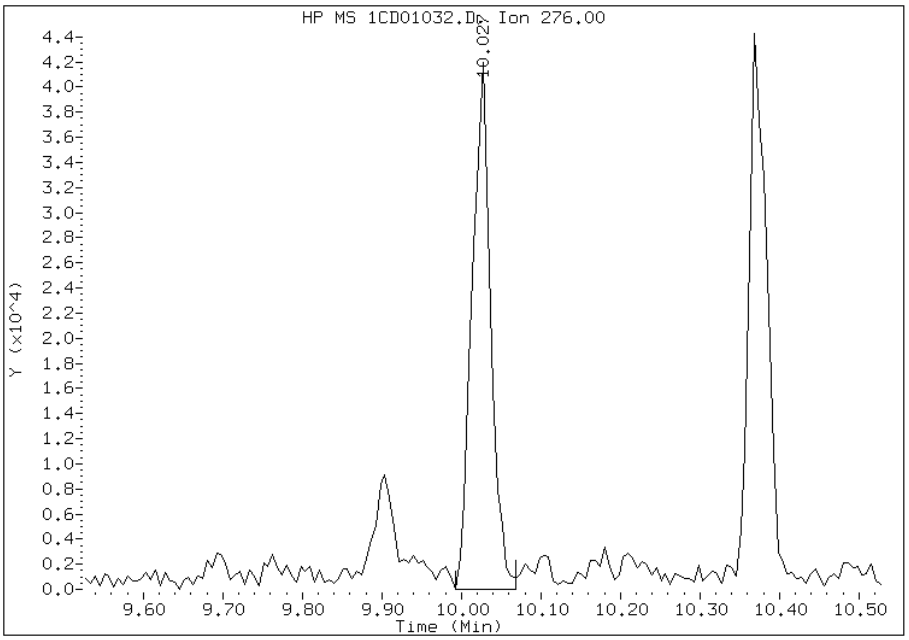
Processing Integration Results

RT: 10.03

Response: 67953

Amount: 3

Conc: 218



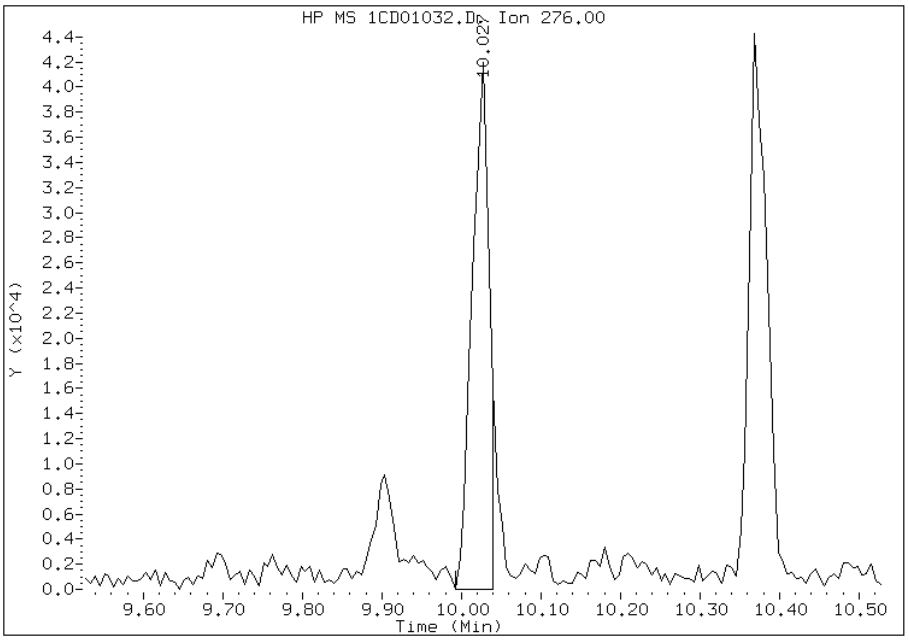
Manual Integration Results

RT: 10.03

Response: 62039

Amount: 2

Conc: 199



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: HP0323B-CS | Lab Sample ID: 680-88632-40

Matrix: Solid | Lab File ID: 1CD01033.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 16:10

Extract. Method: 3546 | Date Extracted: 03/27/2013 15:04

Sample wt/vol: 14.98(g) | Date Analyzed: 04/01/2013 20:58

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

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

% Moisture: 22.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135996 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	61	J	210	26
120-12-7	Anthracene	89		43	22
56-55-3	Benzo[a]anthracene	520		41	20
50-32-8	Benzo[a]pyrene	440		54	27
205-99-2	Benzo[b]fluoranthene	1000		63	32
191-24-2	Benzo[g,h,i]perylene	480		100	23
207-08-9	Benzo[k]fluoranthene	210		41	19
218-01-9	Chrysene	670		47	23
53-70-3	Dibenz(a,h)anthracene	160		100	21
206-44-0	Fluoranthene	700		100	21
86-73-7	Fluorene	45	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	450		100	37
90-12-0	1-Methylnaphthalene	170	J	210	23
91-57-6	2-Methylnaphthalene	220		210	37
91-20-3	Naphthalene	260		210	23
85-01-8	Phenanthrene	510		41	20
129-00-0	Pyrene	660		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\BSMC5973.i\1C040113.b\1CD01033.D
Lab Smp Id: 680-88632-A-40-A Client Smp ID: HP0323B-CS
Inj Date : 01-APR-2013 20:58
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-40-a
Misc Info : 680-88632-A-40-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 33
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	22.581	% 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	3.716	3.716	(1.000)	661536	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	534796	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	960740	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	24037	1.65709	571.5380
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1053912	40.0000	
* 23 Perylene-d12	264	8.868	8.886	(1.000)	991607	40.0000	
2 Naphthalene	128	3.733	3.733	(1.005)	12985	0.75397	260.0458
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	7489	0.65190	224.8419
4 1-Methylnaphthalene	142	4.222	4.222	(1.136)	5305	0.50703	174.8777
5 Acenaphthylene	152	4.722	4.716	(0.983)	3813	0.17684	60.9944
9 Fluorene	166	5.145	5.145	(1.071)	2221	0.13104	45.1971(Q)
11 Phenanthrene	178	5.769	5.768	(1.003)	40944	1.47385	508.3362
12 Anthracene	178	5.804	5.804	(1.009)	6981	0.25695	88.6221
13 Carbazole	167	5.910	5.910	(1.028)	5088	0.21067	72.6614

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.604	6.604	(1.148)	61682	2.02749	699.2898
16 Pyrene	202	6.774	6.774	(0.881)	54539	1.92565	664.1653
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	45870	1.50799	520.1129
19 Chrysene	228	7.715	7.715	(1.003)	59148	1.94305	670.1667
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.962)	75382	2.90889	1003.2878(M)
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.964)	16241	0.61093	210.7118(QM)
22 Benzo(a)pyrene	252	8.815	8.827	(0.994)	32116	1.27590	440.0617
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.039	(1.130)	30723	1.29747	447.5039(M)
25 Dibenzo(a,h)anthracene	278	10.039	10.056	(1.132)	10634	0.45912	158.3538
26 Benzo(g,h,i)perylene	276	10.368	10.386	(1.169)	34653	1.39897	482.5113

QC Flag Legend

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

Data File: 1CD01033.D

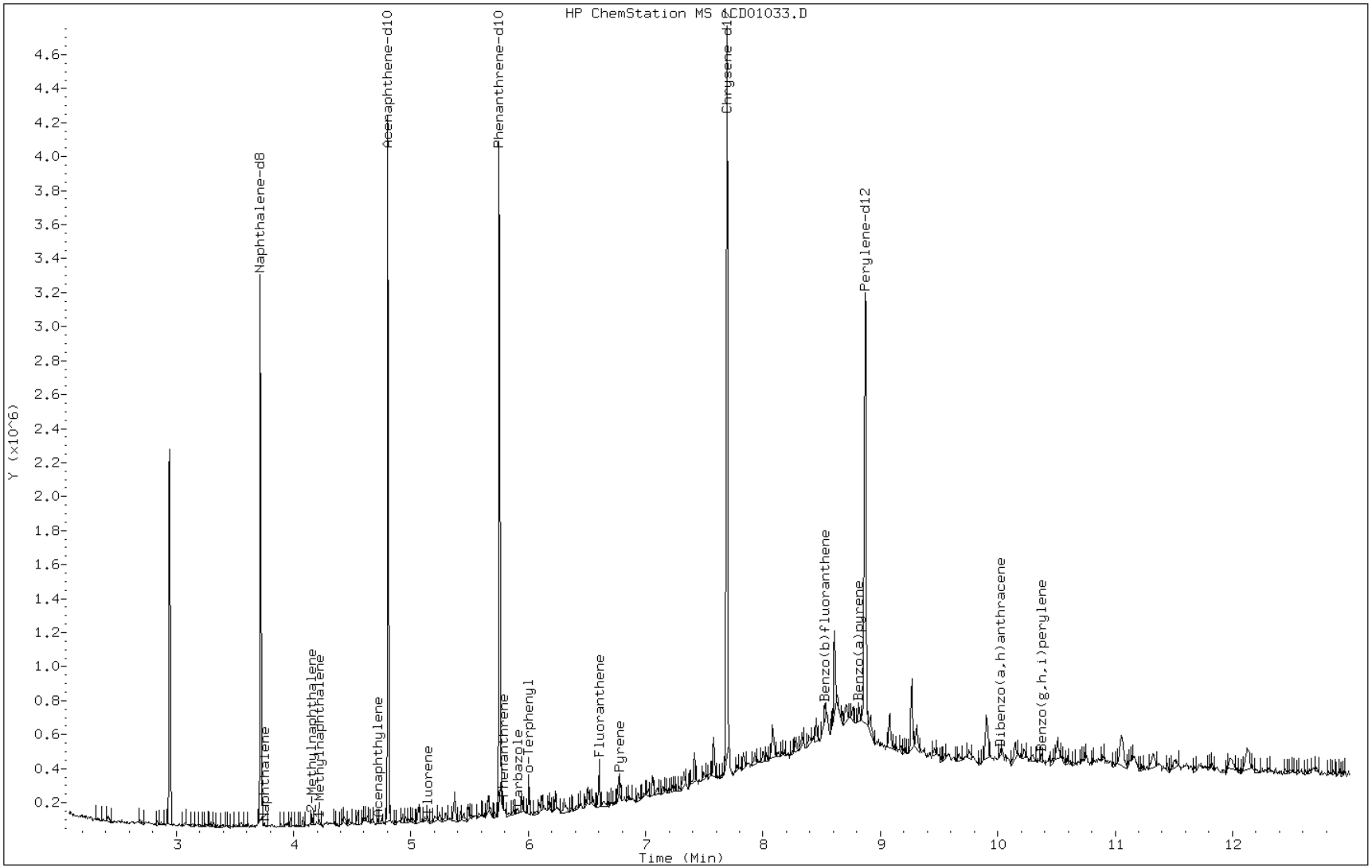
Date: 01-APR-2013 20:58

Client ID: HP0323B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a

Operator: SCC



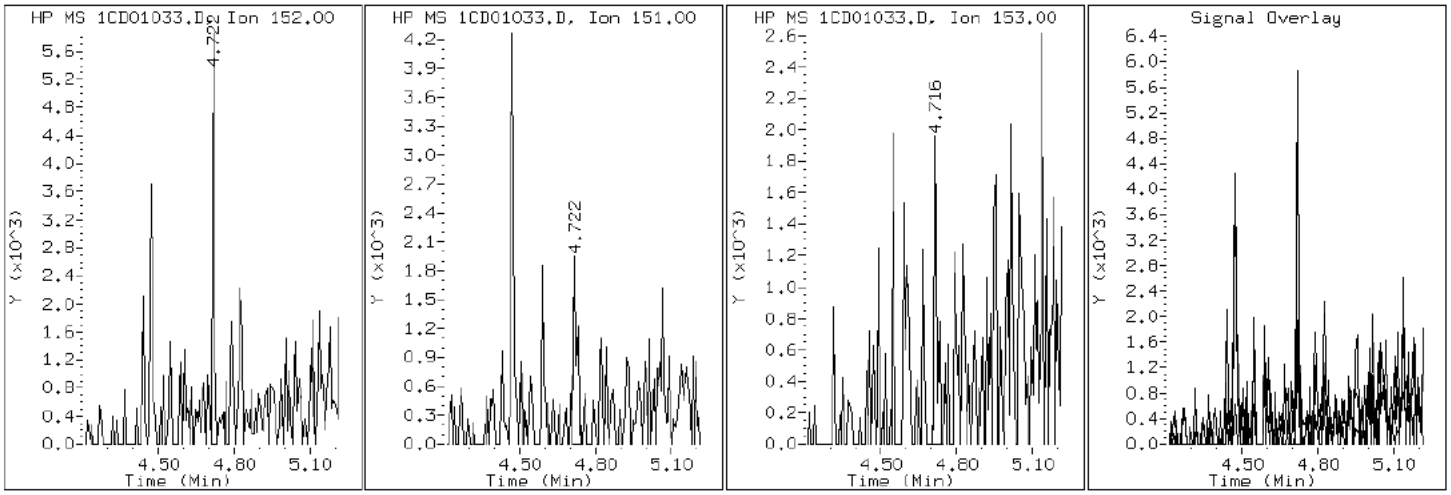
Data File: 1CD01033.D

Date: 01-APR-2013 20:58

Client ID: HP0323B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a Operator: SCC

5 Acenaphthylene



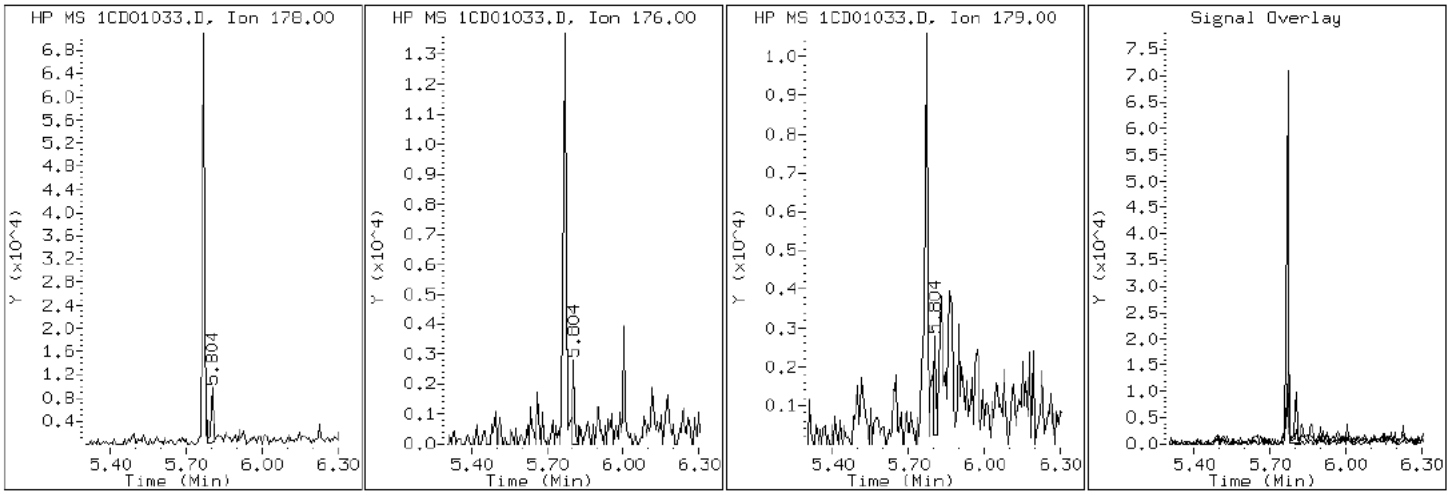
Data File: 1CD01033.D

Date: 01-APR-2013 20:58

Client ID: HP0323B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a Operator: SCC

12 Anthracene



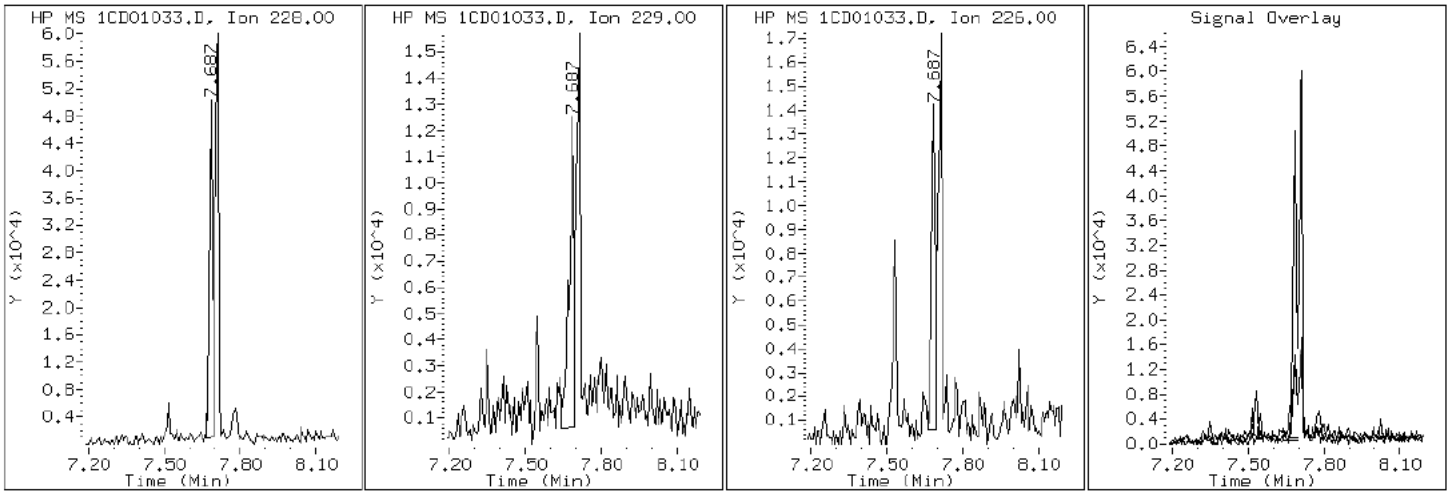
Data File: 1CD01033.D

Date: 01-APR-2013 20:58

Client ID: HP0323B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a Operator: SCC

17 Benzo(a)anthracene



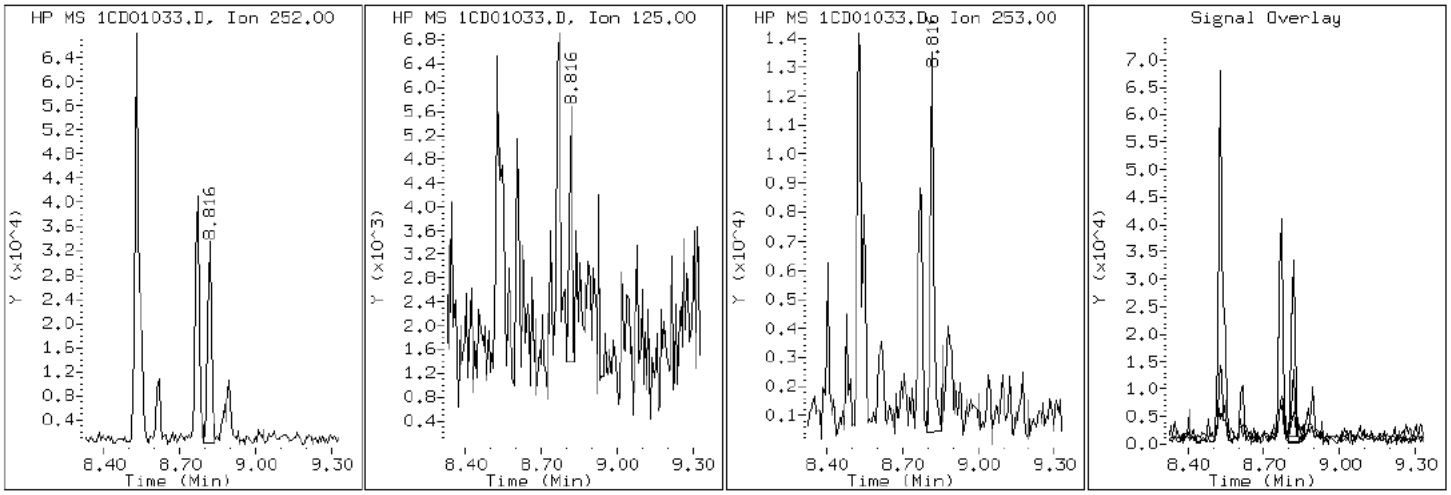
Data File: 1CD01033.D

Date: 01-APR-2013 20:58

Client ID: HP0323B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a Operator: SCC

22 Benzo(a)pyrene



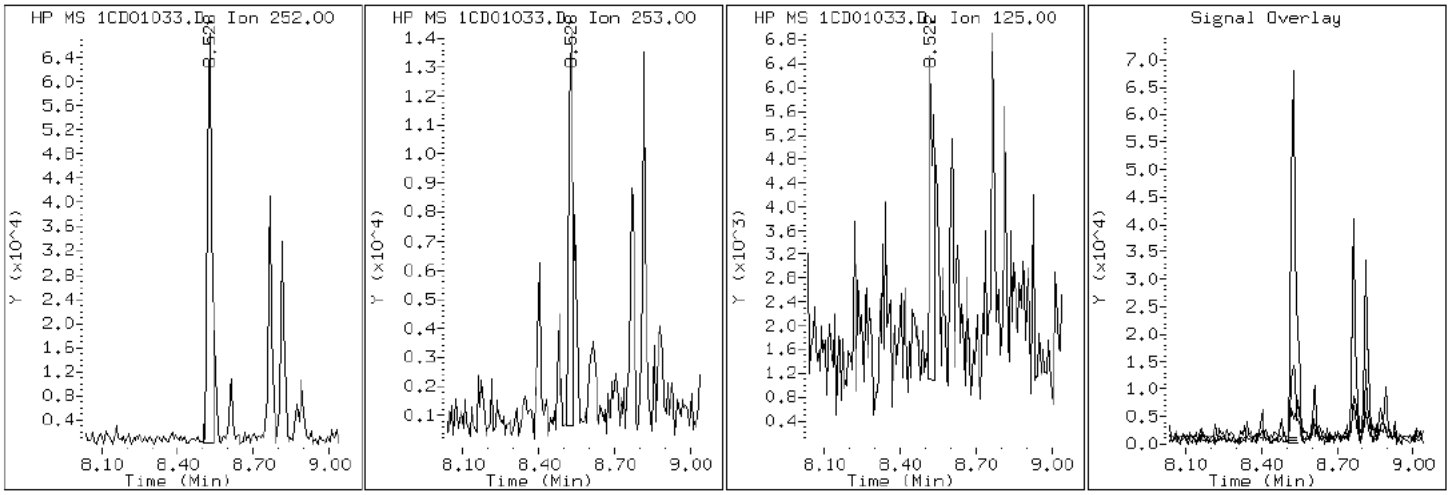
Data File: 1CD01033.D

Date: 01-APR-2013 20:58

Client ID: HP0323B-CS | Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a | Operator: SCC

20 Benzo(b)fluoranthene



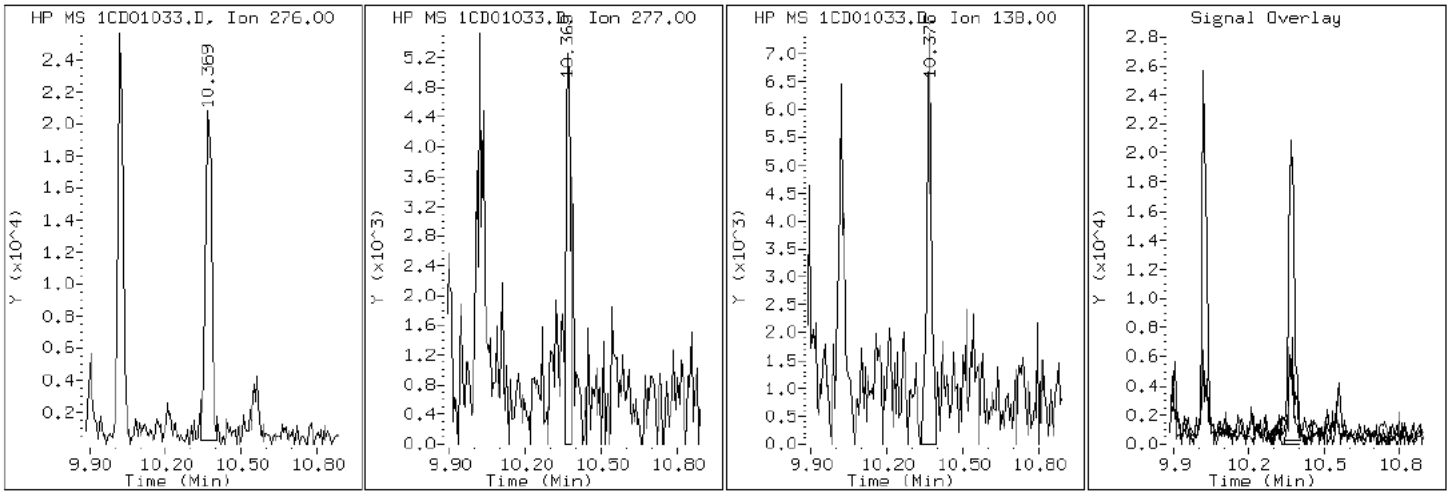
Data File: 1CD01033.D

Date: 01-APR-2013 20:58

Client ID: HP0323B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a Operator: SCC

26 Benzo(g,h,i)perylene



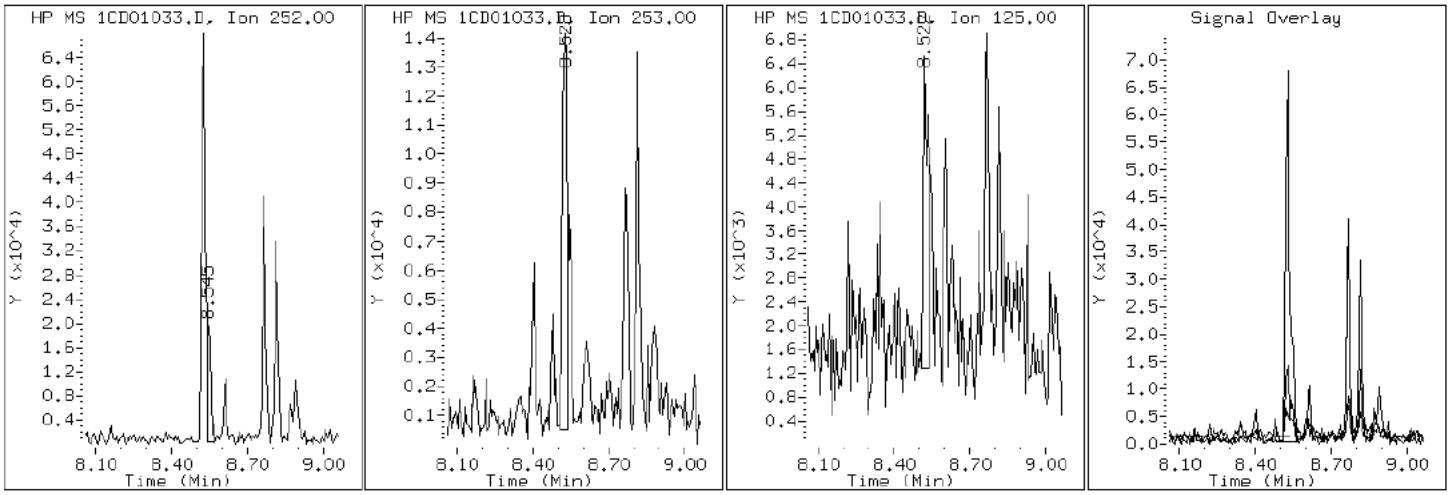
Data File: 1CD01033.D

Date: 01-APR-2013 20:58

Client ID: HP0323B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a Operator: SCC

21 Benzo(k)fluoranthene



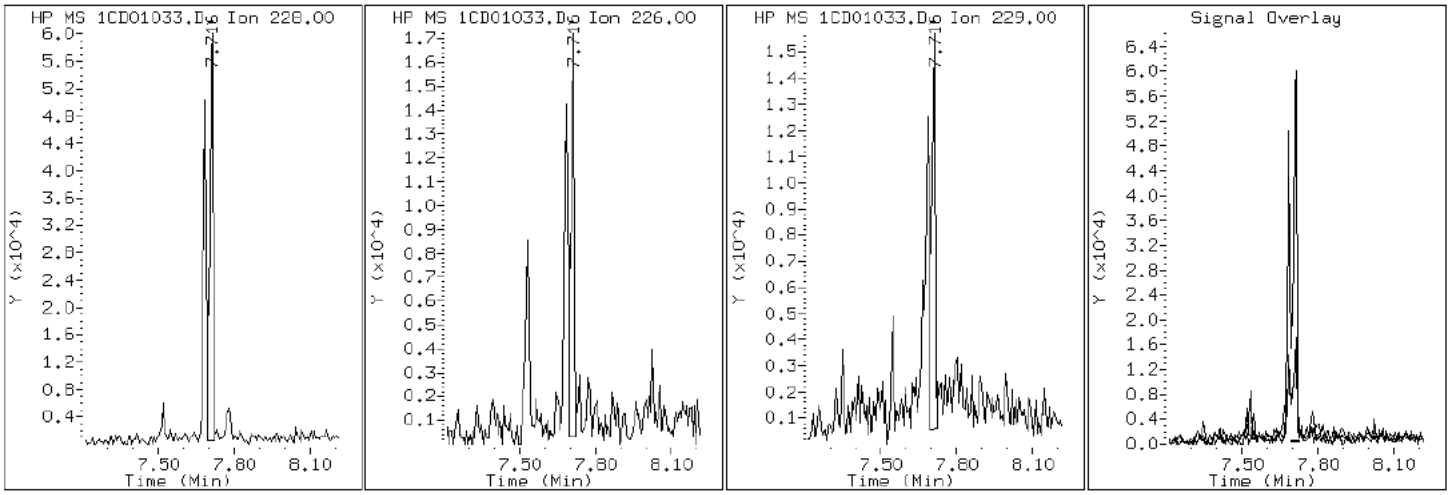
Data File: 1CD01033.D

Date: 01-APR-2013 20:58

Client ID: HP0323B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a Operator: SCC

19 Chrysene



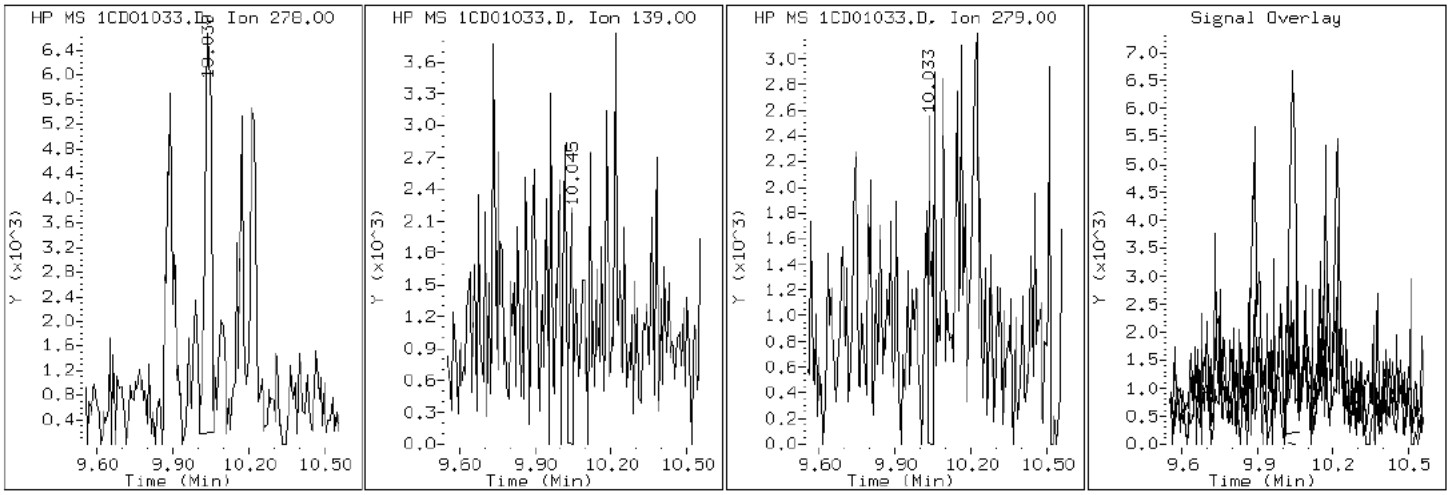
Data File: 1CD01033.D

Date: 01-APR-2013 20:58

Client ID: HP0323B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a Operator: SCC

25 Dibenzo(a,h)anthracene



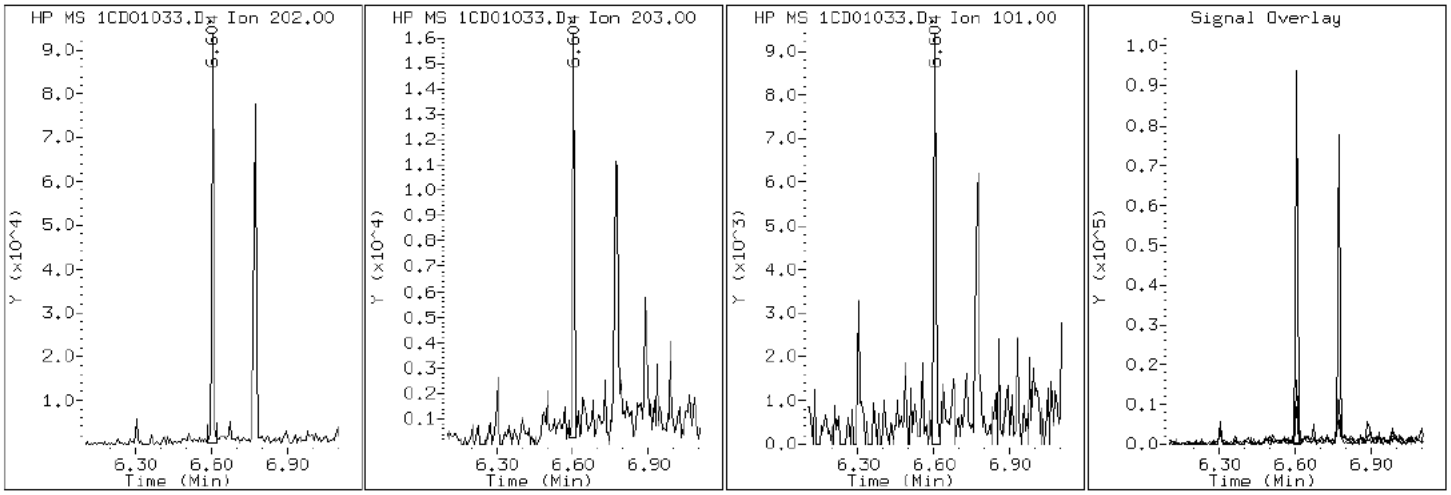
Data File: 1CD01033.D

Date: 01-APR-2013 20:58

Client ID: HP0323B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a Operator: SCC

15 Fluoranthene



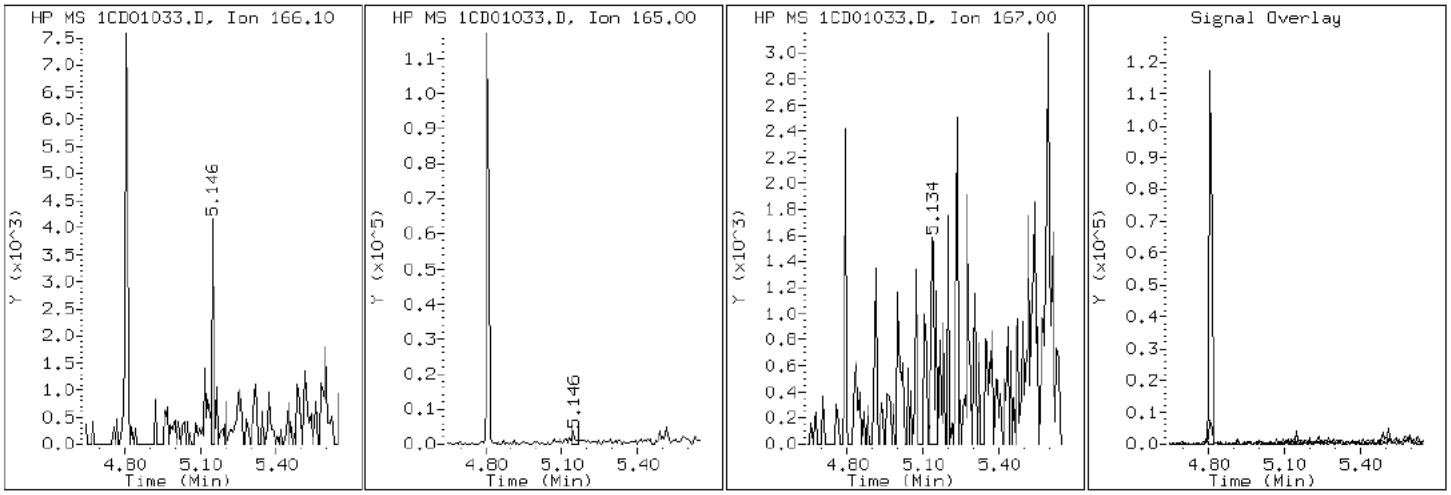
Data File: 1CD01033.D

Date: 01-APR-2013 20:58

Client ID: HP0323B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a Operator: SCC

9 Fluorene



Data File: 1CD01033.D

Date: 01-APR-2013 20:58

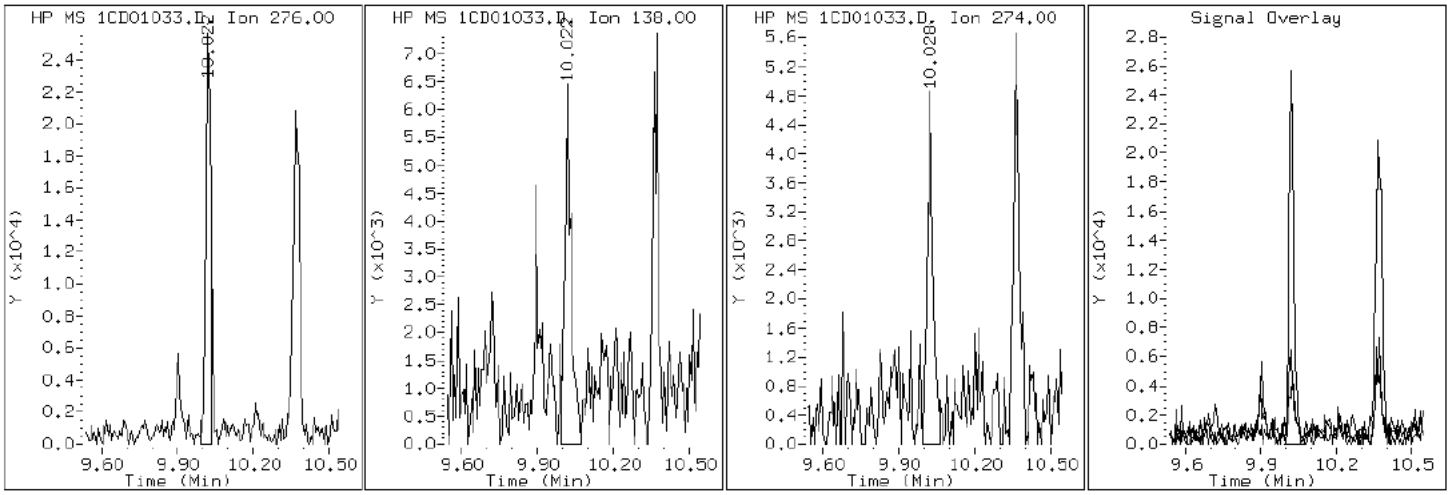
Client ID: HP0323B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a

Operator: SCC

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



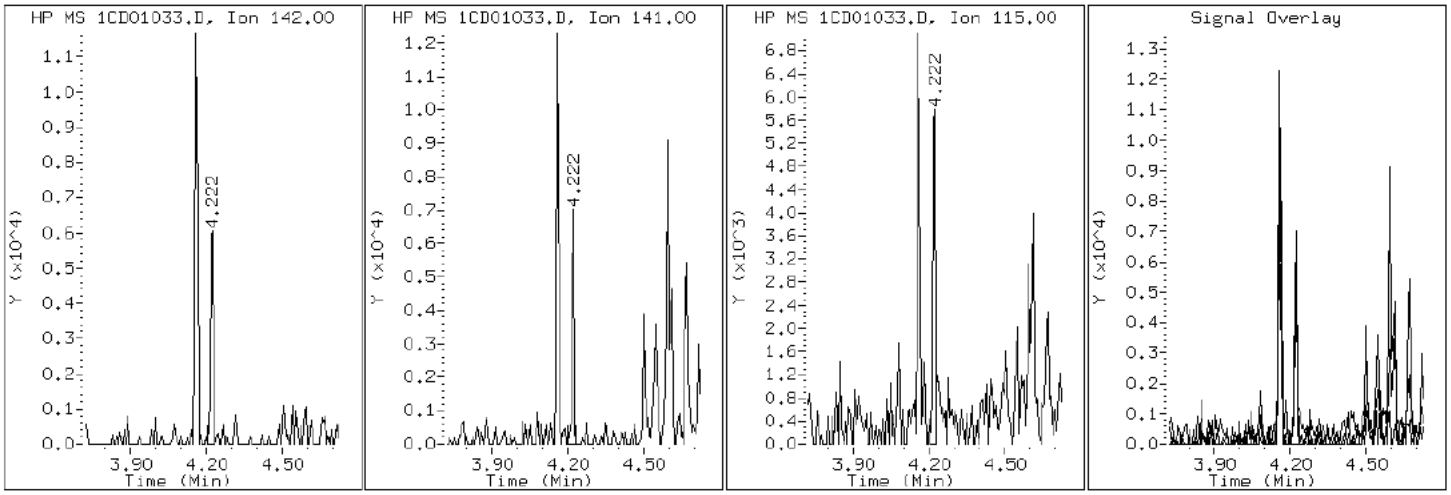
Data File: 1CD01033.D

Date: 01-APR-2013 20:58

Client ID: HP0323B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a Operator: SCC

4 1-Methylnaphthalene



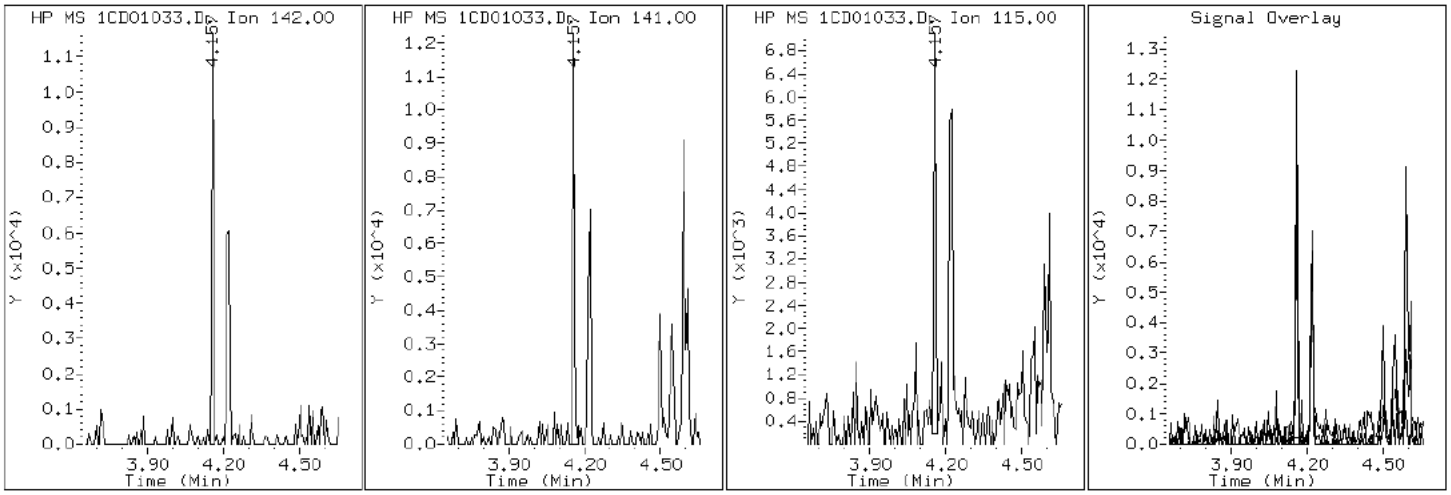
Data File: 1CD01033.D

Date: 01-APR-2013 20:58

Client ID: HP0323B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD01033.D

Date: 01-APR-2013 20:58

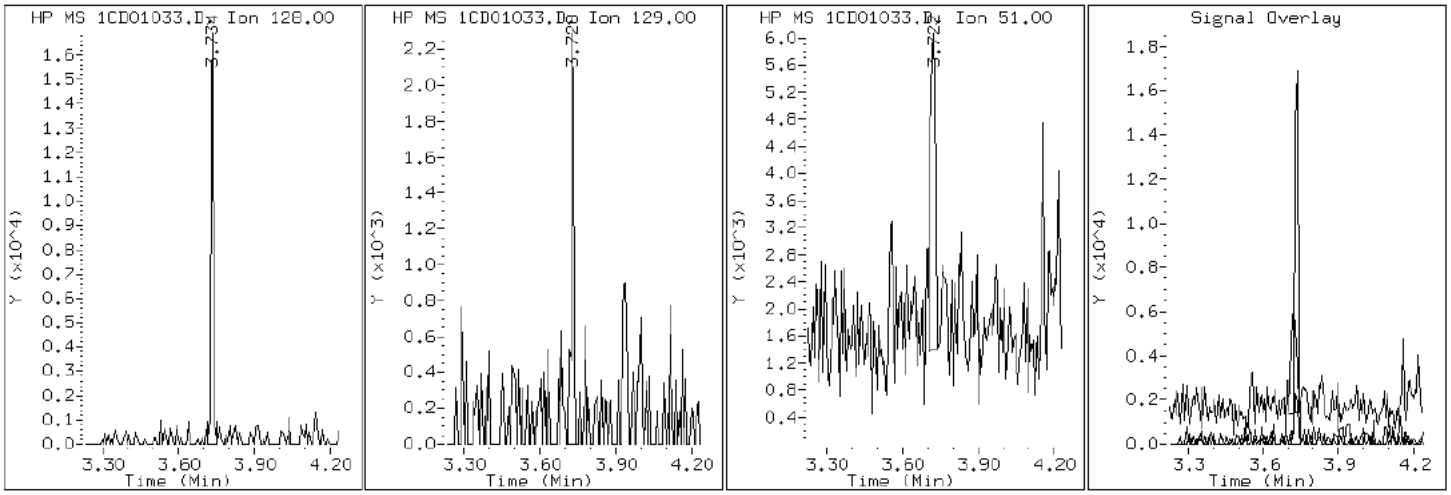
Client ID: HP0323B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a

Operator: SCC

2 Naphthalene



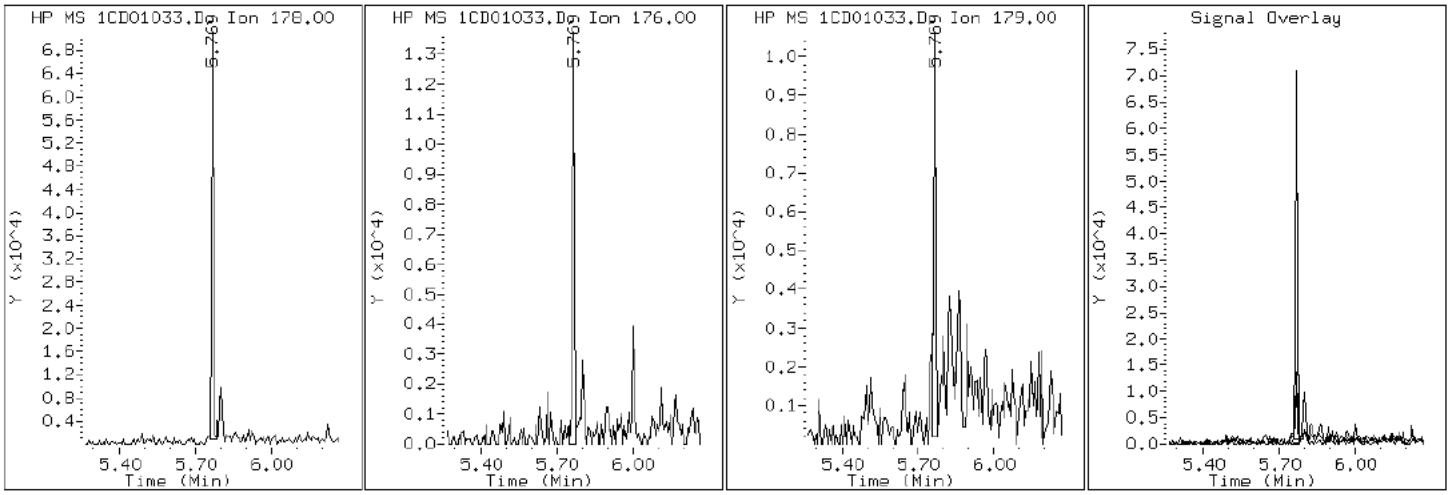
Data File: 1CD01033.D

Date: 01-APR-2013 20:58

Client ID: HP0323B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a Operator: SCC

11 Phenanthrene



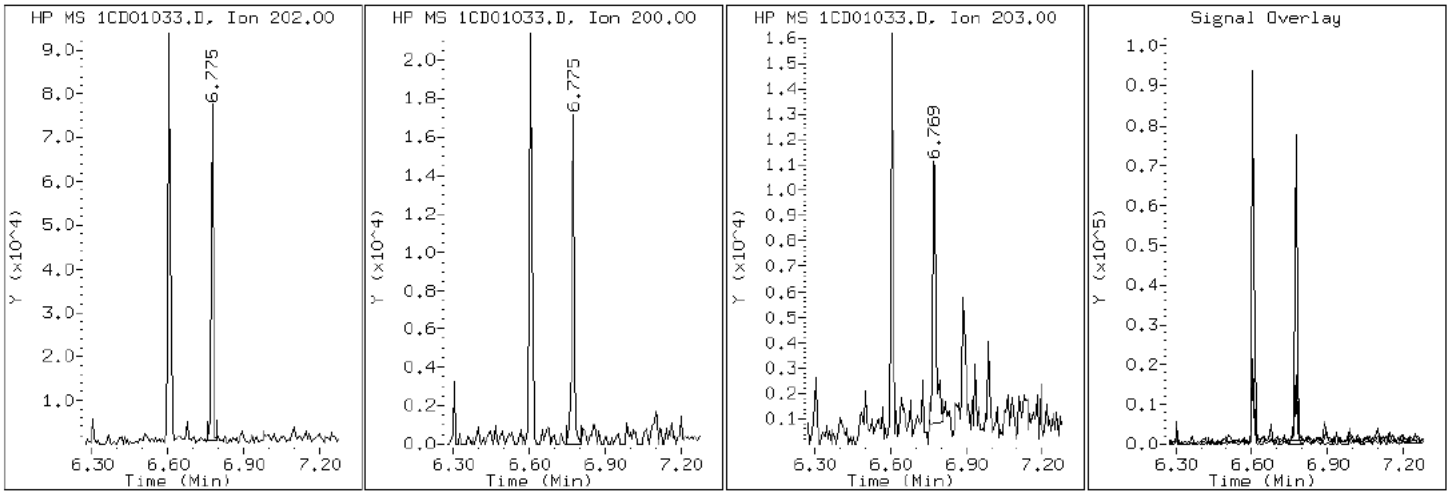
Data File: 1CD01033.D

Date: 01-APR-2013 20:58

Client ID: HP0323B-CS Instrument: BSMC5973.i

Sample Info: 680-88632-a-40-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD01033.D
Inj. Date and Time: 01-APR-2013 20:58
Instrument ID: BSMC5973.i
Client ID: HP0323B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

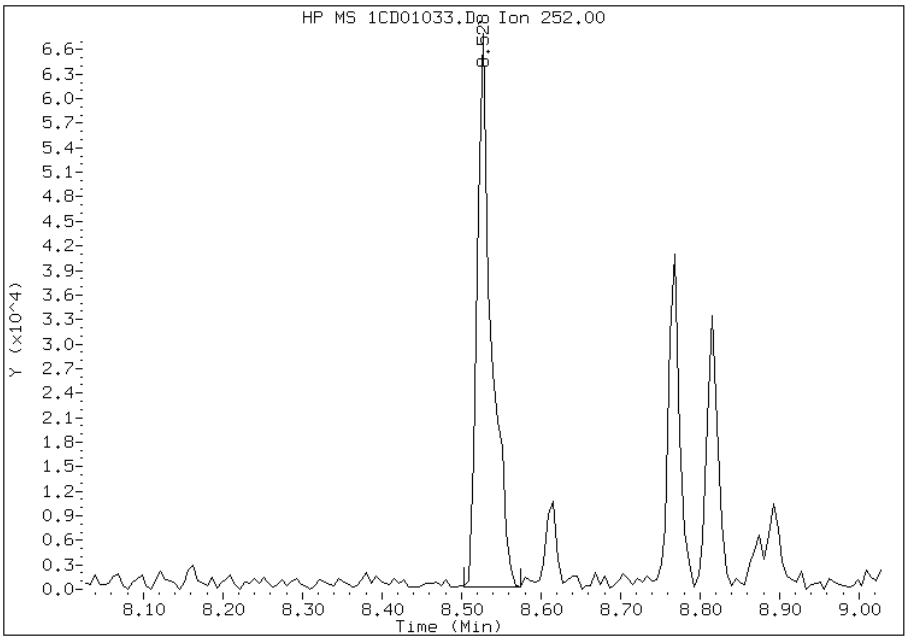
Processing Integration Results

RT: 8.53

Response: 84810

Amount: 3

Conc: 1129



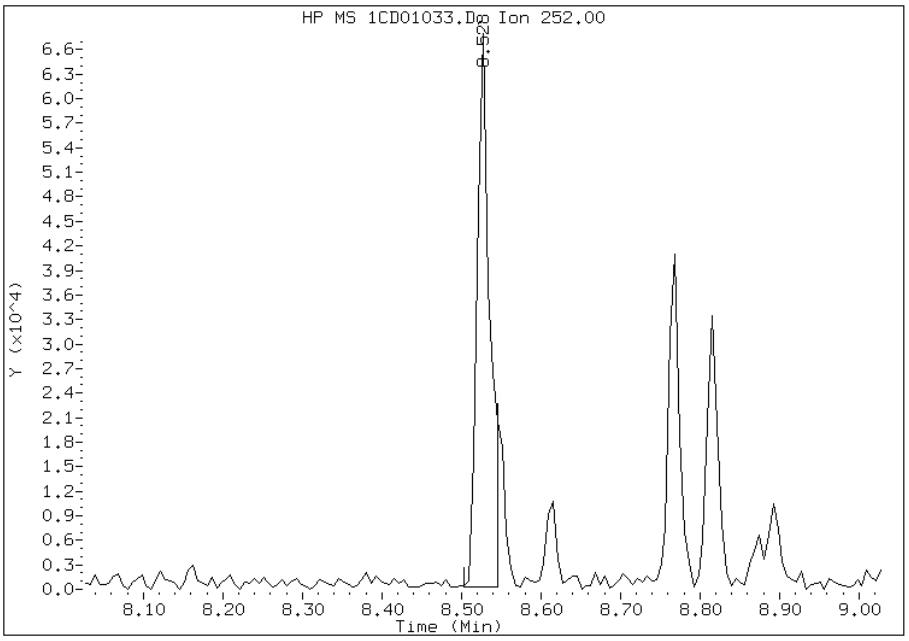
Manual Integration Results

RT: 8.53

Response: 75382

Amount: 3

Conc: 1003



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:14
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD01033.D
Inj. Date and Time: 01-APR-2013 20:58
Instrument ID: BSMC5973.i
Client ID: HP0323B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

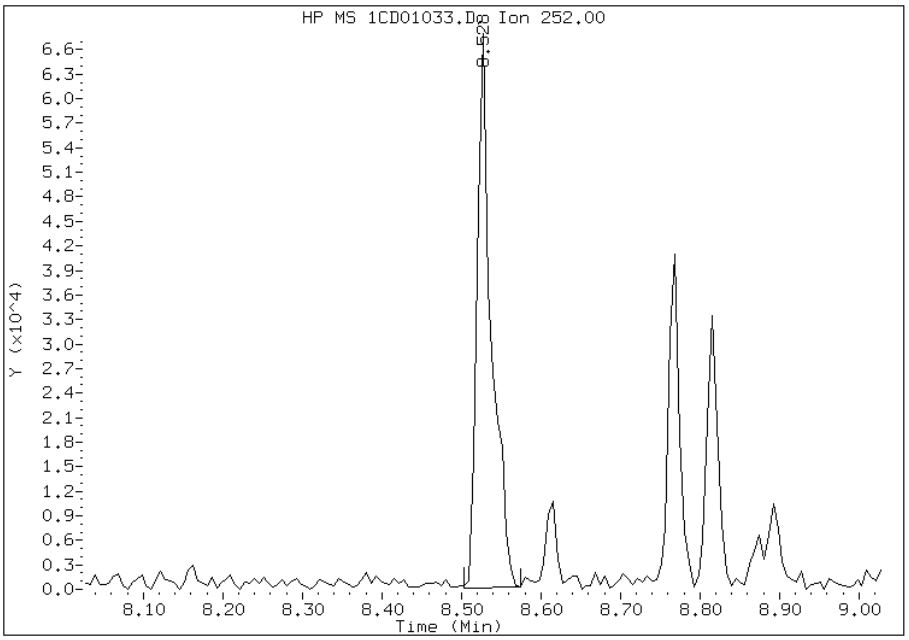
Processing Integration Results

RT: 8.53

Response: 84858

Amount: 3

Conc: 1101



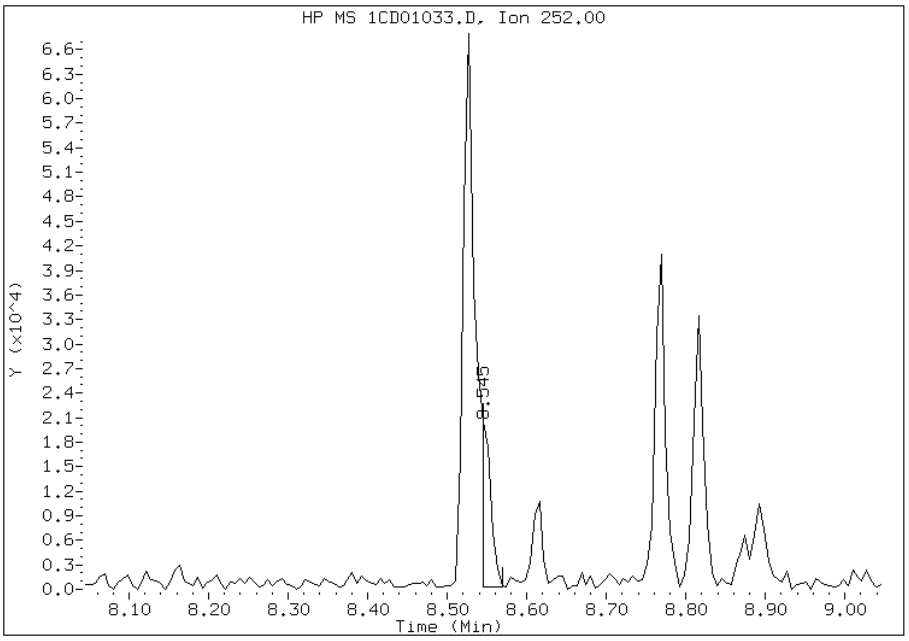
Manual Integration Results

RT: 8.55

Response: 16241

Amount: 1

Conc: 211



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01033.D
Inj. Date and Time: 01-APR-2013 20:58
Instrument ID: BSMC5973.i
Client ID: HP0323B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

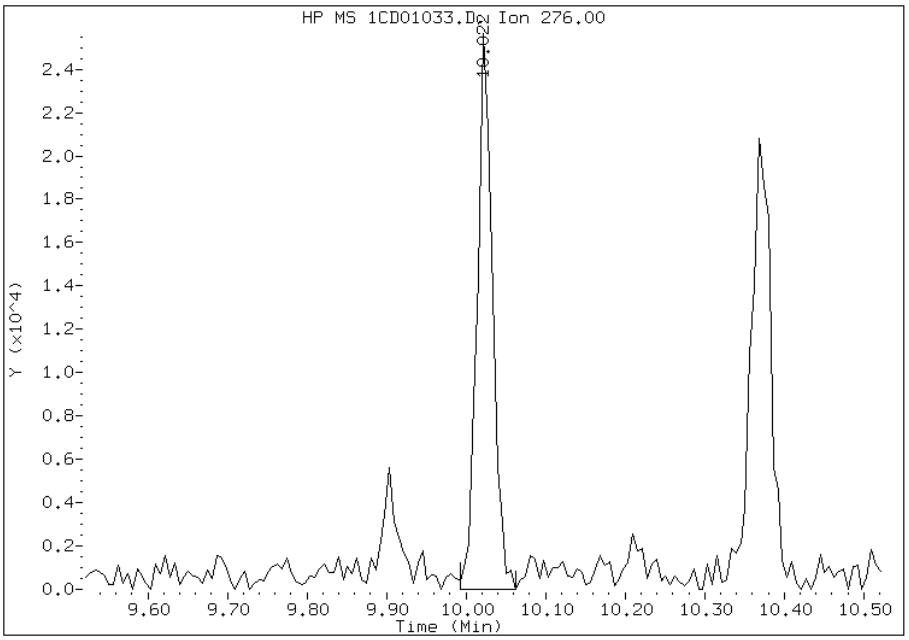
Processing Integration Results

RT: 10.02

Response: 34354

Amount: 1

Conc: 500



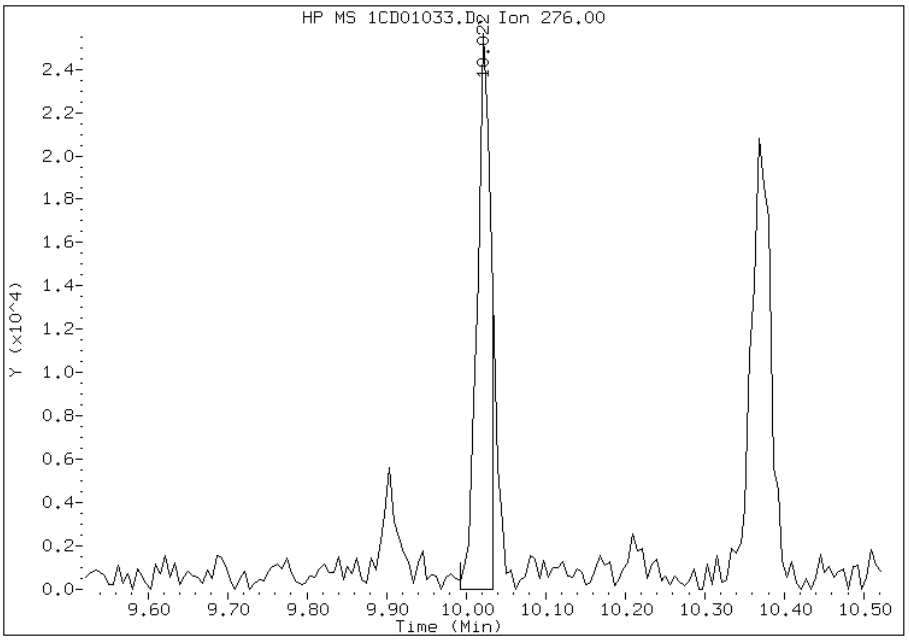
Manual Integration Results

RT: 10.02

Response: 30723

Amount: 1

Conc: 448



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:15
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-2 Analy Batch No.: 134776

SDG No.: 68088632-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.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	0.9712 1.0467	1.0104 1.0669	1.0471	1.0871	1.0600	Ave		1.0414			0.0000	3.7		15.0			
2-Methylnaphthalene	0.7372 0.6936	0.6277 0.6981	0.6498	0.7330	0.7230	Ave		0.6946			0.0000	6.0		15.0			
1-Methylnaphthalene	0.5602 0.6374	0.5666 0.6603	0.6541	0.6977	0.6523	Ave		0.6326			0.0000	8.0		15.0			
Acenaphthylene	1.6507 1.6289	1.4259 1.6887	1.5782	1.6615	1.6547	Ave		1.6127			0.0000	5.5		15.0			
Acenaphthene	1.1992 0.9520	0.9269 0.9711	1.0052	0.9958	0.9664	Ave		1.0024			0.0000	9.0		15.0			
Fluorene	1.2003 1.2968	1.2155 1.3216	1.2084	1.3213	1.3097	Ave		1.2677			0.0000	4.5		15.0			
Phenanthrene	1.3236 1.1268	1.1829 1.1367	1.1369	1.0982	1.0913	Ave		1.1566			0.0000	6.9		15.0			
Anthracene	1.1830 1.1477	1.0495 1.1690	1.1368	1.1486	1.0836	Ave		1.1312			0.0000	4.2		15.0			
Carbazole	1.1097 0.9866	0.9191 1.0122	0.9992	1.0253	0.9866	Ave		1.0055			0.0000	5.7		15.0			
Fluoranthene	1.3263 1.3062	1.1270 1.2838	1.2811	1.2806	1.2615	Ave		1.2666			0.0000	5.1		15.0			
Pyrene	1.0694 1.0644	1.0908 1.1171	1.0556	1.0637	1.0636	Ave		1.0749			0.0000	2.0		15.0			
Benzo[a]anthracene	1.5187 1.0791	1.1715 1.0797	1.0862	1.0840	1.0620	Ave		1.1545			0.0000	14.3		15.0			
Chrysene	1.3833 1.1146	1.1955 1.1060	1.0804	1.1163	1.0913	Ave		1.1553			0.0000	9.3		15.0			
Benzo[b]fluoranthene	1.0729 1.0767	0.9591 1.0902	0.9699	1.0114	1.1373	Ave		1.0453			0.0000	6.4		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-2 Analy Batch No.: 134776

SDG No.: 68088632-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

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	1.0803 1.0851	0.9472 1.1214	1.1337	1.1178	1.0210	Ave		1.0724			0.0000	6.2		15.0			
Benzo[a]pyrene	0.9920 1.0612	0.9445 1.0775	0.9754	1.0337	1.0234	Ave		1.0154			0.0000	4.7		15.0			
Indeno[1,2,3-cd]pyrene	0.9988 0.9513	0.8331 1.0162	0.9231	0.9673	0.9964	Ave		0.9552			0.0000	6.5		15.0			
Dibenz(a,h)anthracene	0.9790 0.9541	0.8572 0.9549	0.9225	0.9559	0.9165	Ave		0.9343			0.0000	4.3		15.0			
Benzo[g,h,i]perylene	1.0736 0.9972	0.9178 1.0017	1.0049	1.0311	0.9680	Ave		0.9992			0.0000	4.9		15.0			
o-Terphenyl	0.5990 0.6241	0.5420 0.6195	0.6120	0.6306	0.6003	Ave		0.6039			0.0000	4.9		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88632-2 Analy B

SDG No.: 68088632-2

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

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibra

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CO	
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7
Naphthalene	NPT	Ave	5702 977462	31413 1788680	148399	315626	643945	0.200 30.0	1 50
2-Methylnaphthalene	NPT	Ave	4328 647691	19516 1170415	92089	212804	439231	0.200 30.0	1 50
1-Methylnaphthalene	NPT	Ave	3289 595177	17615 1106965	92698	202550	396283	0.200 30.0	1 50
Acenaphthylene	ANT	Ave	7443 1208002	33214 2158422	172573	371048	771781	0.200 30.0	1 50
Acenaphthene	ANT	Ave	5407 706037	21590 1241216	109910	222376	450754	0.200 30.0	1 50
Fluorene	ANT	Ave	5412 961751	28314 1689190	132137	295086	610839	0.200 30.0	1 50
Phenanthrene	PHN	Ave	11408 1575924	51473 2774518	234717	474400	1014750	0.200 30.0	1 50
Anthracene	PHN	Ave	10196 1605221	45666 2853457	234701	496179	1007571	0.200 30.0	1 50
Carbazole	PHN	Ave	9564 1379814	39992 2470847	206292	442919	917432	0.200 30.0	1 50
Fluoranthene	PHN	Ave	11431 1826908	49039 3133704	264484	553174	1173070	0.200 30.0	1 50
Pyrene	CRY	Ave	12023 1978030	58472 3458322	286919	587163	1289224	0.200 30.0	1 50
Benzo[a]anthracene	CRY	Ave	17074 2005529	62799 3342573	295256	598352	1287277	0.200 30.0	1 50
Chrysene	CRY	Ave	15552 2071419	64086 3423784	293675	616185	1322748	0.200 30.0	1 50
Benzo[b]fluoranthene	PRY	Ave	13018 2159068	56338 3419972	280988	609549	1514965	0.200 30.0	1 50
Benzo[k]fluoranthene	PRY	Ave	13108 2175966	55640 3517880	328460	673624	1360131	0.200 30.0	1 50
Benzo[a]pyrene	PRY	Ave	12036 2128065	55481 3380087	282594	622966	1363217	0.200 30.0	1 50
Indeno[1,2,3-cd]pyrene	PRY	Ave	12119 1907725	48940 3187834	267436	582935	1327322	0.200 30.0	1 50
Dibenz(a,h)anthracene	PRY	Ave	11879 1913283	50354 2995648	267252	576071	1220845	0.200 30.0	1 50
Benzo[g,h,i]perylene	PRY	Ave	13026 1999689	53913 3142464	291148	621425	1289503	0.200 30.0	1 50
o-Terphenyl	PHN	Ave	5163 872937	23584 1512079	126358	272397	558161	0.200 30.0	1 50

Curve Type Legend:
Ave = Average ISTD

134776

N

2760

LVL 3	LVL 4	LVL 5
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22003.D
Lab Smp Id: IC-1512358
Inj Date : 22-FEB-2013 11:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1174200	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	901777	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1723779	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	5163	0.20000	0.1983
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2248468	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2426654	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	5702	0.20000	0.1865(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	4328	0.20000	0.2122
4 1-Methylnaphthalene	142	4.310	4.310	(1.133)	3289	0.20000	0.1771
5 Acenaphthylene	152	4.804	4.804	(0.982)	7443	0.20000	0.2047
7 Acenaphthene	154	4.915	4.915	(1.005)	5407	0.20000	0.2392
9 Fluorene	166	5.233	5.233	(1.070)	5412	0.20000	0.1893
11 Phenanthrene	178	5.862	5.862	(1.003)	11408	0.20000	0.2288
12 Anthracene	178	5.898	5.898	(1.009)	10196	0.20000	0.2091
13 Carbazole	167	6.004	6.004	(1.027)	9564	0.20000	0.2207
15 Fluoranthene	202	6.704	6.704	(1.147)	11431	0.20000	0.2094
16 Pyrene	202	6.874	6.874	(0.882)	12023	0.20000	0.1989
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	17074	0.20000	0.2631
19 Chrysene	228	7.815	7.815	(1.002)	15552	0.20000	0.2394
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	13018	0.20000	0.2052
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	13108	0.20000	0.2014
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	12036	0.20000	0.1953
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	12119	0.20000	0.2001(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	11879	0.20000	0.2095
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	13026	0.20000	0.2148

QC Flag Legend

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

Data File: 1CB22003.D

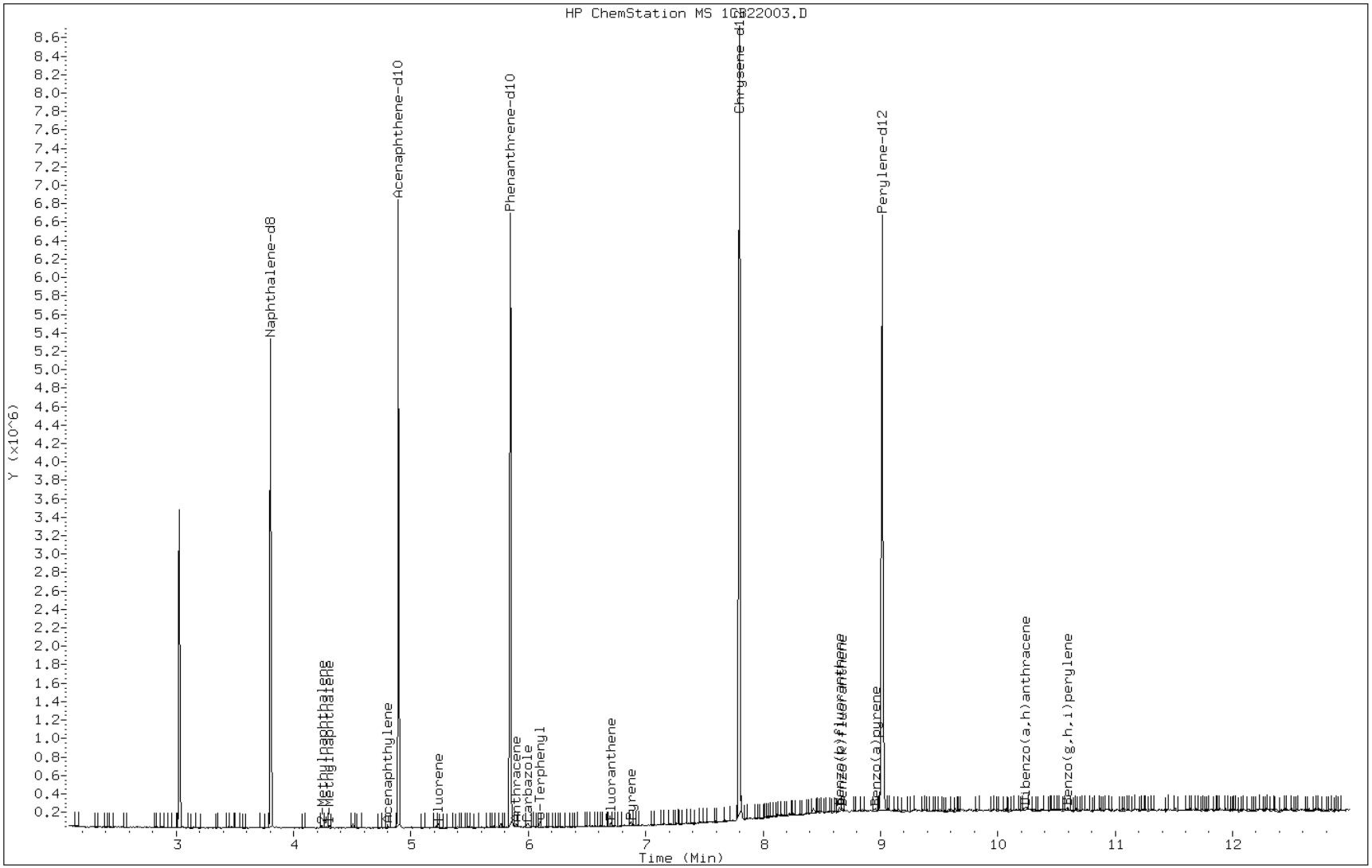
Date: 22-FEB-2013 11:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512358

Operator: SCC



Manual Integration Report

Data File: 1CB22003.D
Inj. Date and Time: 22-FEB-2013 11:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

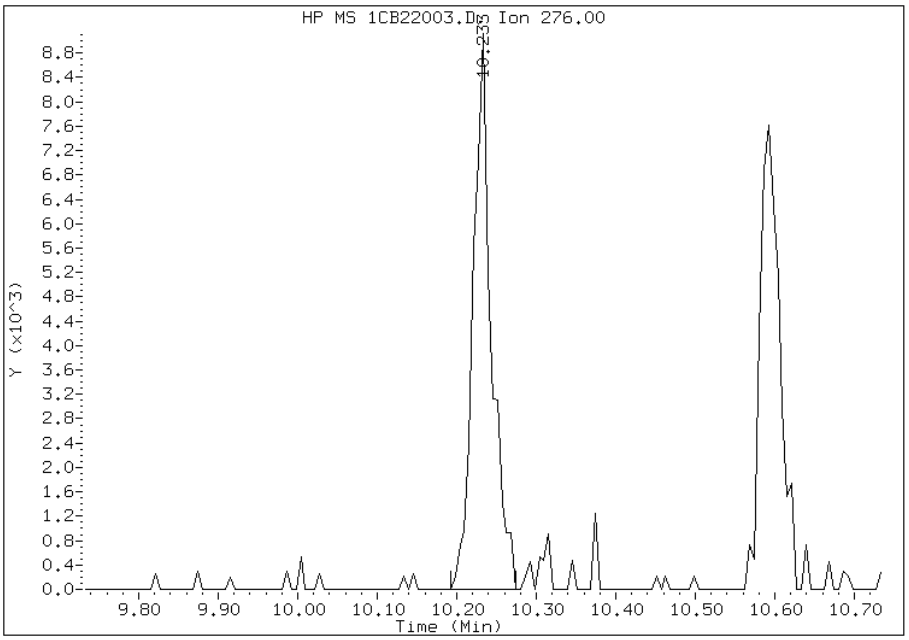
Processing Integration Results

RT: 10.23

Response: 14380

Amount: 0

Conc: 0



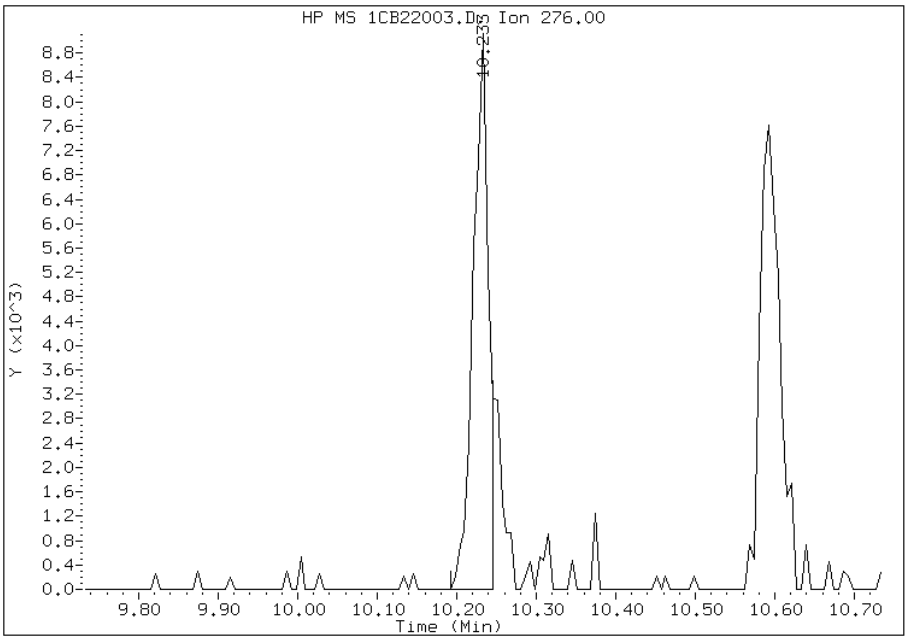
Manual Integration Results

RT: 10.23

Response: 12119

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:13
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22004.D
Lab Smp Id: IC-1512359
Inj Date : 22-FEB-2013 12:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:57 Cal File: 1CB22003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1243608	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	931732	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1740509	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	23584	1.00000	0.8974
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2144273	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2349732	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	31413	1.00000	0.9702(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	19516	1.00000	0.9036
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	17615	1.00000	0.8955
5 Acenaphthylene	152	4.804	4.804	(0.982)	33214	1.00000	0.8841
7 Acenaphthene	154	4.910	4.910	(1.004)	21590	1.00000	0.9246
9 Fluorene	166	5.233	5.233	(1.070)	28314	1.00000	0.9588
11 Phenanthrene	178	5.862	5.862	(1.003)	51473	1.00000	1.0227
12 Anthracene	178	5.898	5.898	(1.009)	45666	1.00000	0.9277
13 Carbazole	167	6.004	6.004	(1.027)	39992	1.00000	0.9140
15 Fluoranthene	202	6.704	6.704	(1.147)	49039	1.00000	0.8897
16 Pyrene	202	6.874	6.874	(0.882)	58472	1.00000	1.0147
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	62799	1.00000	1.0147
19 Chrysene	228	7.815	7.815	(1.002)	64086	1.00000	1.0347
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	56338	1.00000	0.9174
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	55640	1.00000	0.8832
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	55481	1.00000	0.9301
24 Indeno(1,2,3-cd)pyrene	276	10.221	10.221	(1.134)	48940	1.00000	0.8346(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	50354	1.00000	0.9174
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	53913	1.00000	0.9185

QC Flag Legend

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

Data File: 1CB22004.D

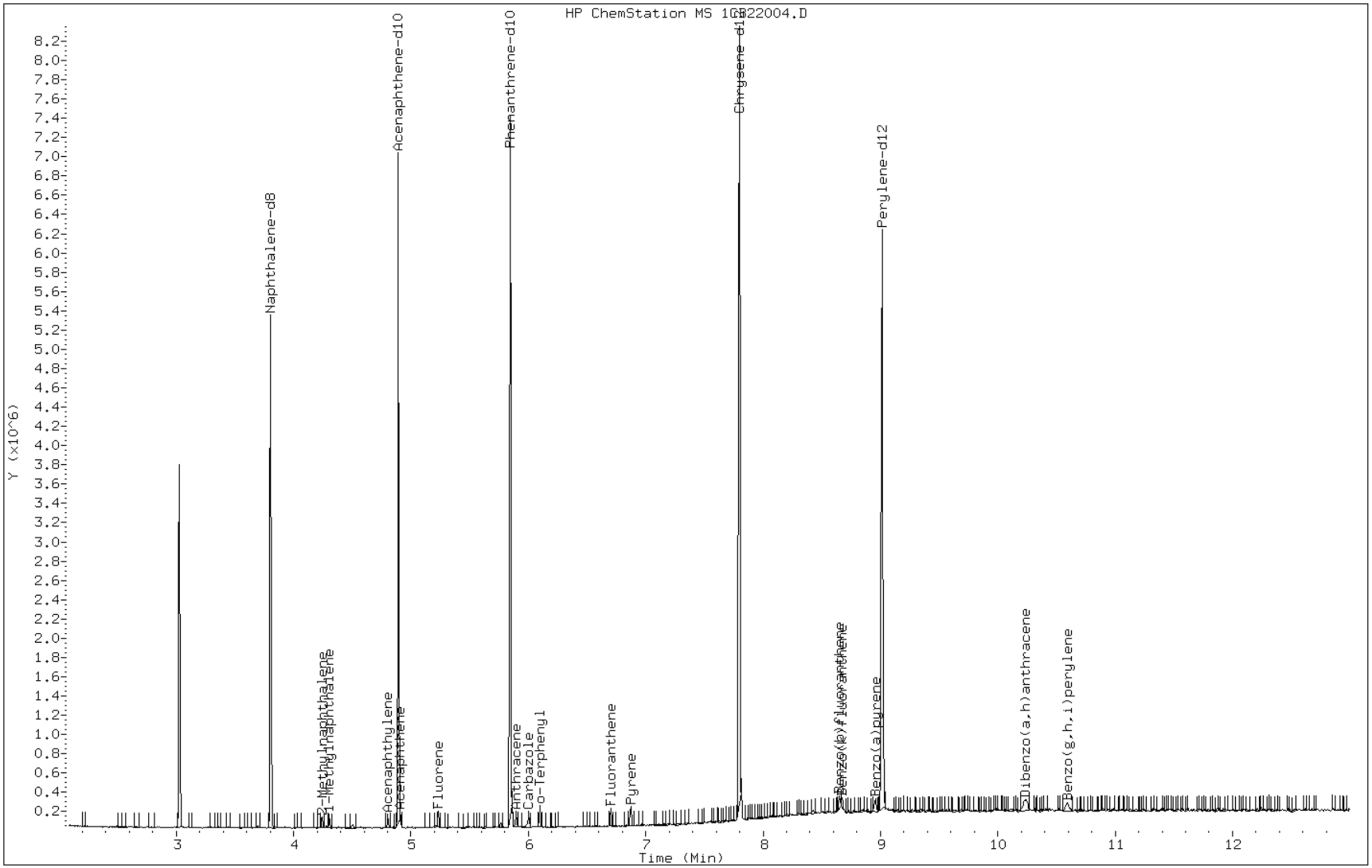
Date: 22-FEB-2013 12:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512359

Operator: SCC



Manual Integration Report

Data File: 1CB22004.D
Inj. Date and Time: 22-FEB-2013 12:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

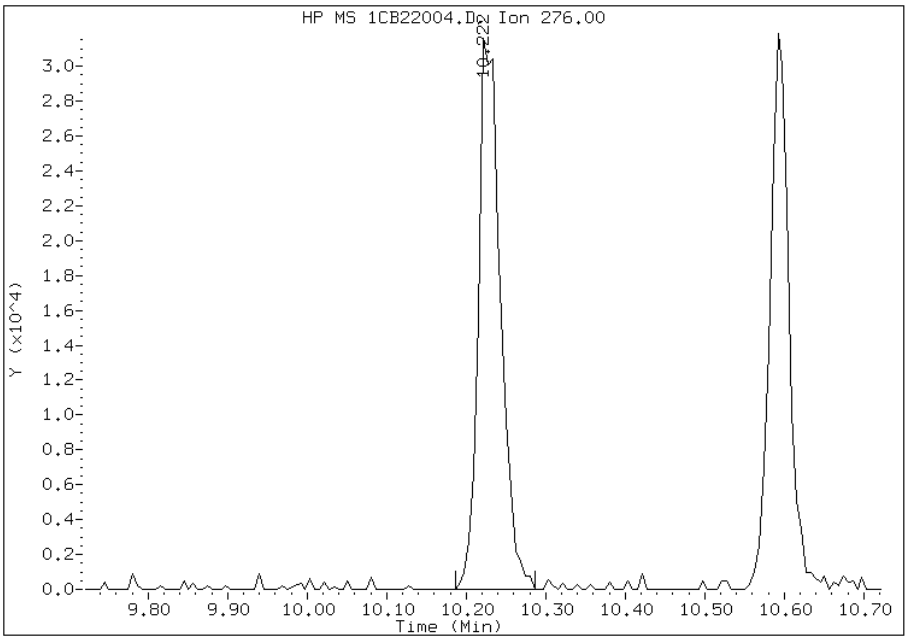
Processing Integration Results

RT: 10.22

Response: 61246

Amount: 1

Conc: 1



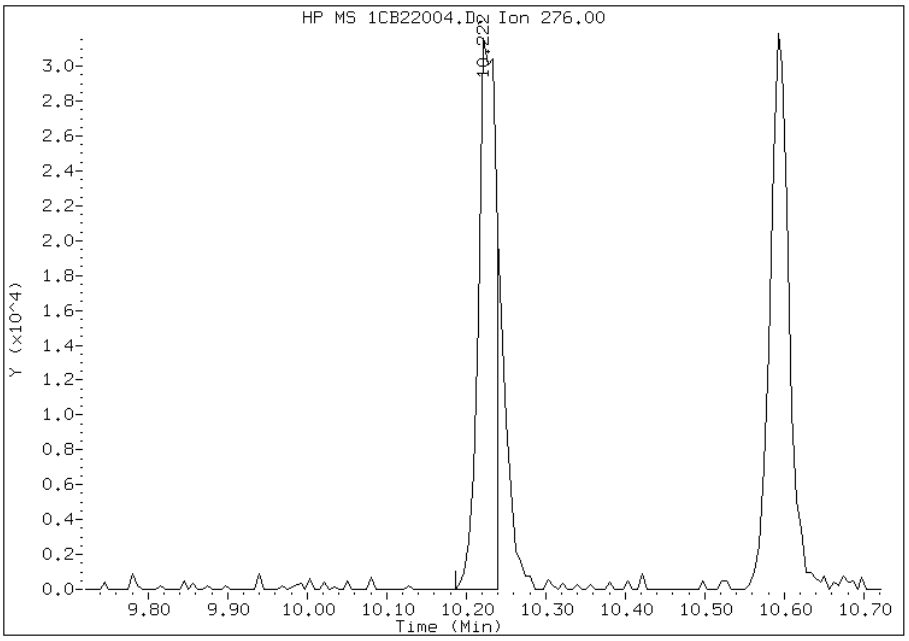
Manual Integration Results

RT: 10.22

Response: 48940

Amount: 1

Conc: 1



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22005.D
Lab Smp Id: IC-1512360
Inj Date : 22-FEB-2013 12:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:16 Cal File: 1CB22004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1133793	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	874757	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1651631	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	126358	5.00000	5.0671
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2174554	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2317716	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	148399	5.00000	5.0275
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	92089	5.00000	4.6771
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	92698	5.00000	5.1694
5 Acenaphthylene	152	4.804	4.804	(0.982)	172573	5.00000	4.8932
7 Acenaphthene	154	4.910	4.910	(1.004)	109910	5.00000	5.0139
9 Fluorene	166	5.233	5.233	(1.070)	132137	5.00000	4.7663
11 Phenanthrene	178	5.863	5.863	(1.003)	234717	5.00000	4.9147
12 Anthracene	178	5.898	5.898	(1.009)	234701	5.00000	5.0249
13 Carbazole	167	6.004	6.004	(1.027)	206292	5.00000	4.9685
15 Fluoranthene	202	6.704	6.704	(1.147)	264484	5.00000	5.0569
16 Pyrene	202	6.874	6.874	(0.882)	286919	5.00000	4.9098
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	295256	5.00000	4.7043
19 Chrysene	228	7.815	7.815	(1.002)	293675	5.00000	4.6756
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	280988	5.00000	4.6390
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	328460	5.00000	5.2861
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	282594	5.00000	4.8032
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	267436	5.00000	4.6238(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	267252	5.00000	4.9366
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	291148	5.00000	5.0287

QC Flag Legend

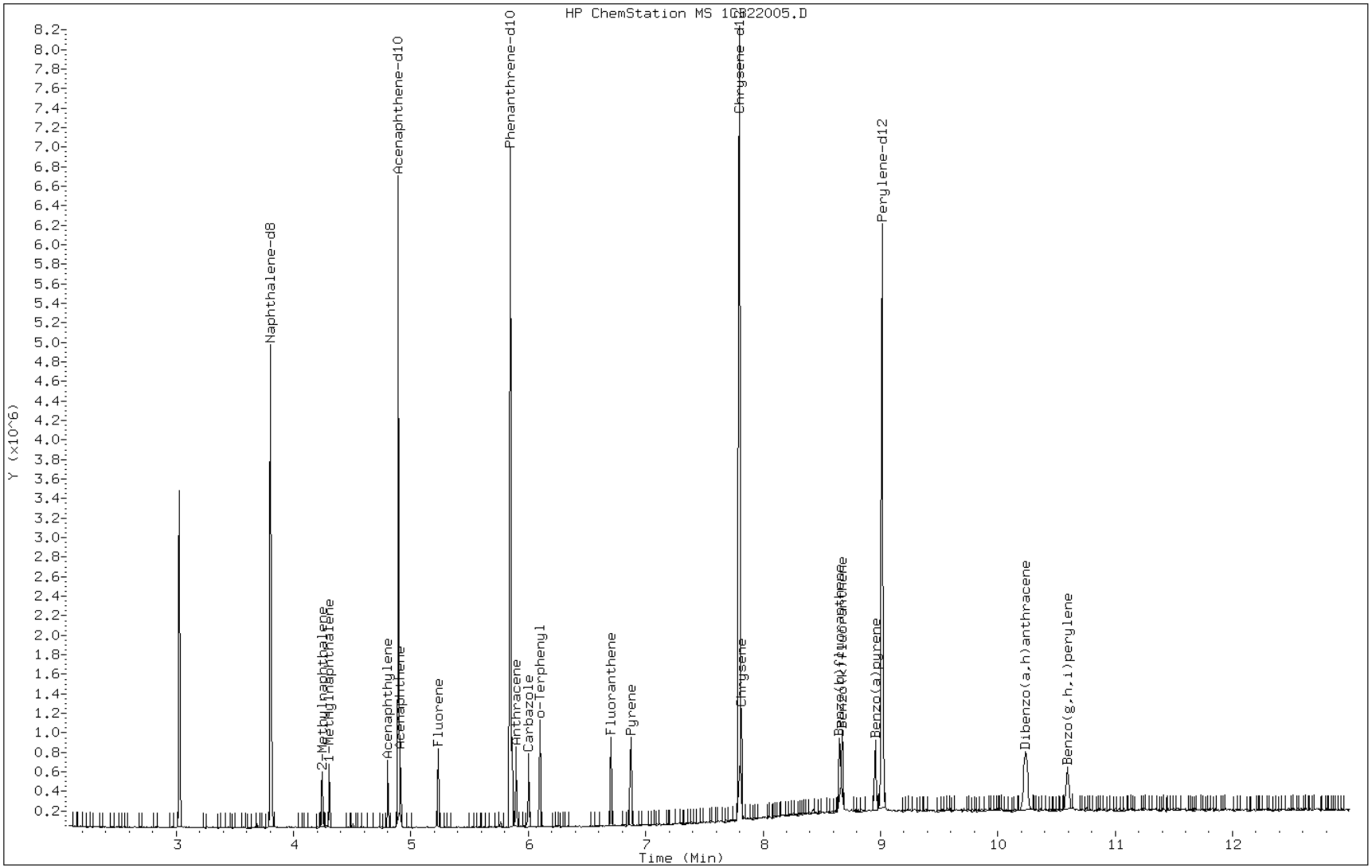
M - Compound response manually integrated.

Data File: 1CB22005.D

Date: 22-FEB-2013 12:34

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1512360 Operator: SCC



Manual Integration Report

Data File: 1CB22005.D
Inj. Date and Time: 22-FEB-2013 12:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

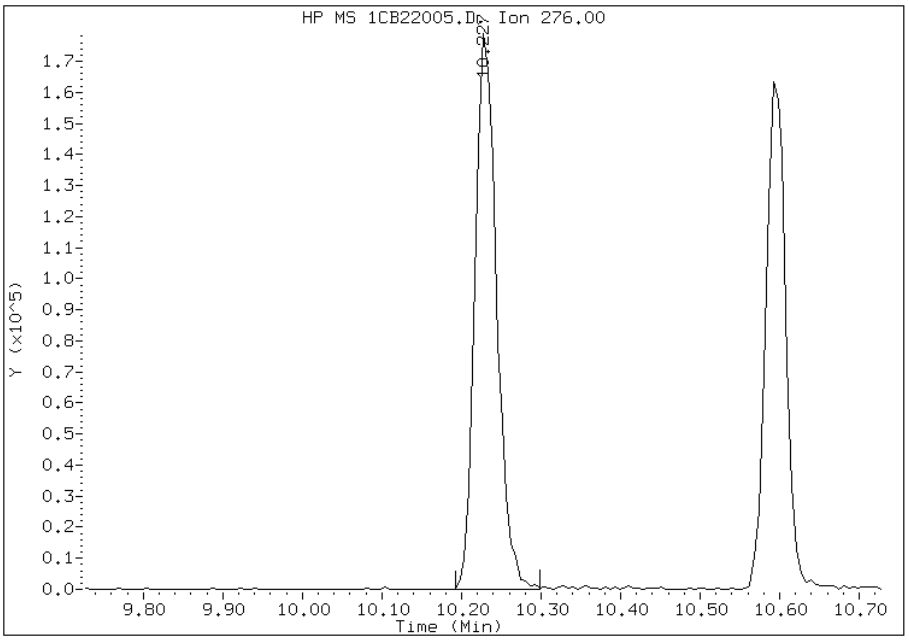
Processing Integration Results

RT: 10.23

Response: 336913

Amount: 6

Conc: 6



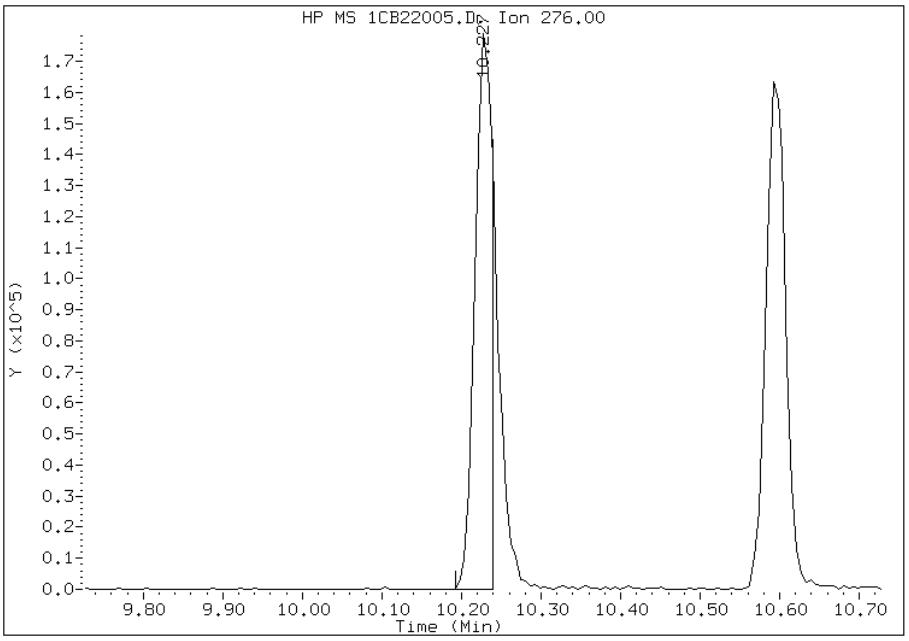
Manual Integration Results

RT: 10.23

Response: 267436

Amount: 5

Conc: 5



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22006.D
Lab Smp Id: IC-1512361
Inj Date : 22-FEB-2013 12:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512361
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:34 Cal File: 1CB22005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1161301	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	893287	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1727894	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	272397	10.0000	10.4413
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2207928	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2410622	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	315626	10.0000	10.4397
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	212804	10.0000	10.5522
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	202550	10.0000	11.0278
5 Acenaphthylene	152	4.804	4.804	(0.982)	371048	10.0000	10.3027
7 Acenaphthene	154	4.910	4.910	(1.004)	222376	10.0000	9.9341
9 Fluorene	166	5.233	5.233	(1.070)	295086	10.0000	10.4233
11 Phenanthrene	178	5.862	5.862	(1.003)	474400	10.0000	9.4950
12 Anthracene	178	5.898	5.898	(1.009)	496179	10.0000	10.1543
13 Carbazole	167	6.004	6.004	(1.027)	442919	10.0000	10.1969
15 Fluoranthene	202	6.704	6.704	(1.147)	553174	10.0000	10.1099
16 Pyrene	202	6.874	6.874	(0.882)	587163	10.0000	9.8957
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	598352	10.0000	9.3895
19 Chrysene	228	7.815	7.815	(1.002)	616185	10.0000	9.6621
20 Benzo(b)fluoranthene	252	8.650	8.650	(0.960)	609549	10.0000	9.6756
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	673624	10.0000	10.4233
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	622966	10.0000	10.1804
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	582935	10.0000	9.6902(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	576071	10.0000	10.2310
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	621425	10.0000	10.3197

QC Flag Legend

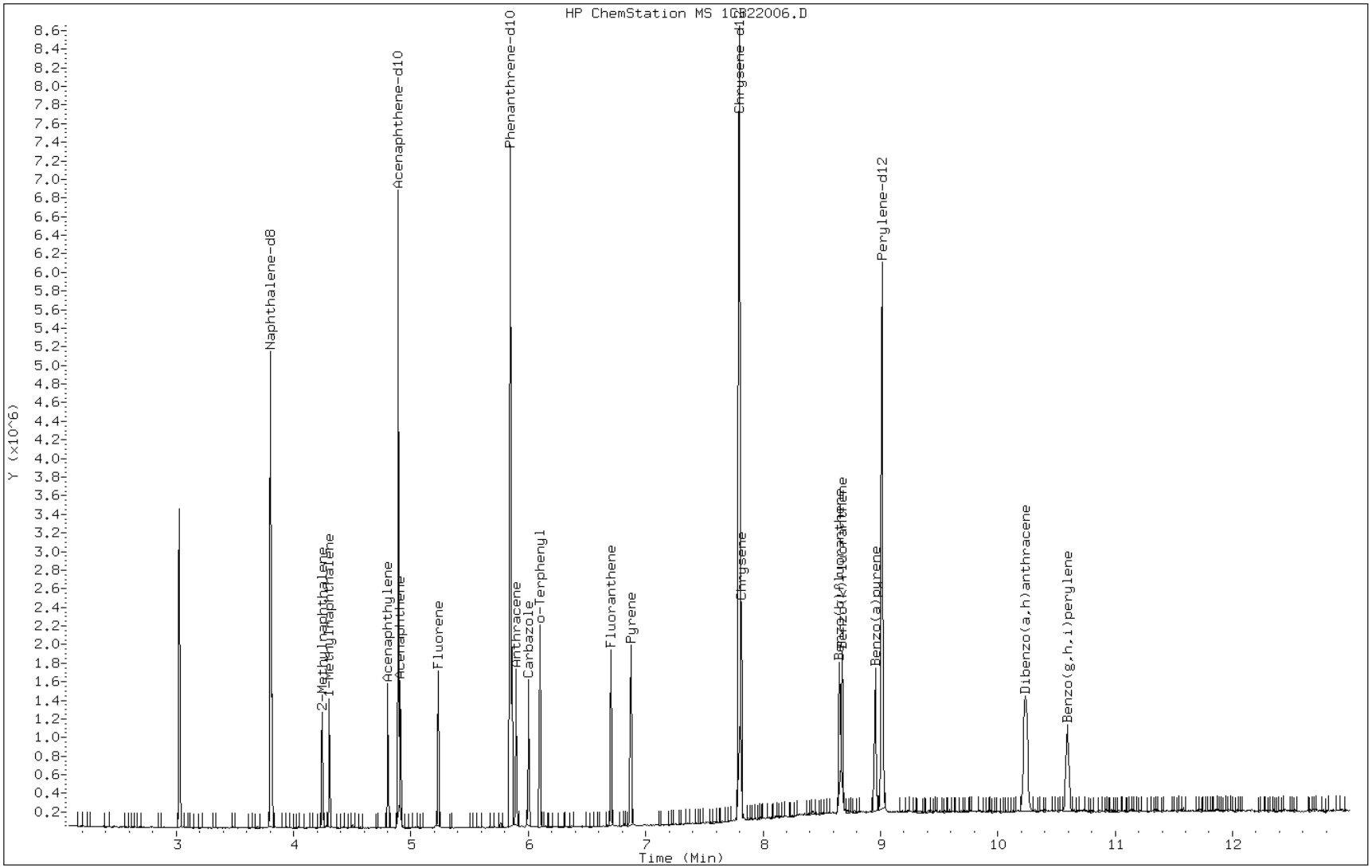
M - Compound response manually integrated.

Data File: 1CB22006.D

Date: 22-FEB-2013 12:53

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1512361 Operator: SCC



Manual Integration Report

Data File: 1CB22006.D
Inj. Date and Time: 22-FEB-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

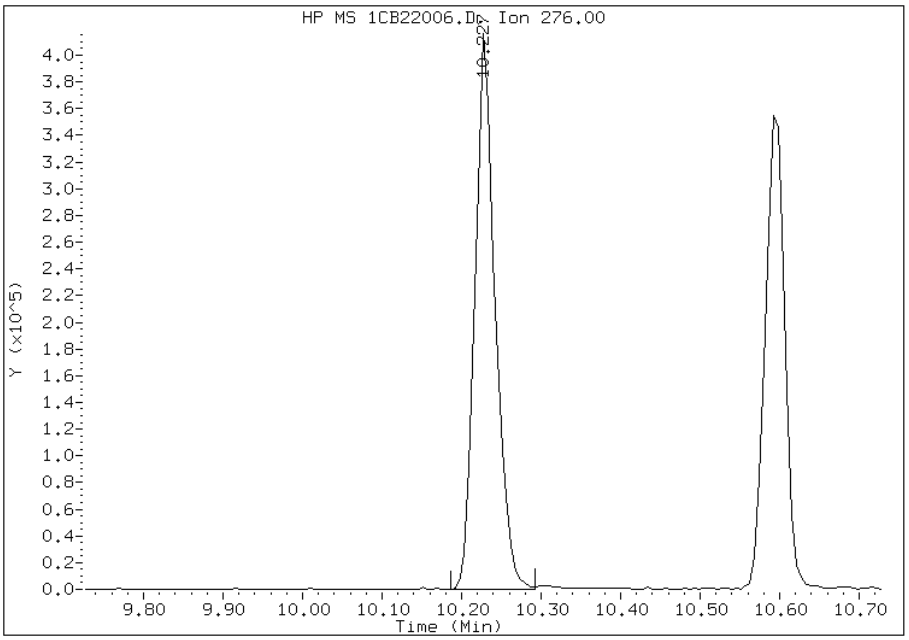
Processing Integration Results

RT: 10.23

Response: 727358

Amount: 13

Conc: 13



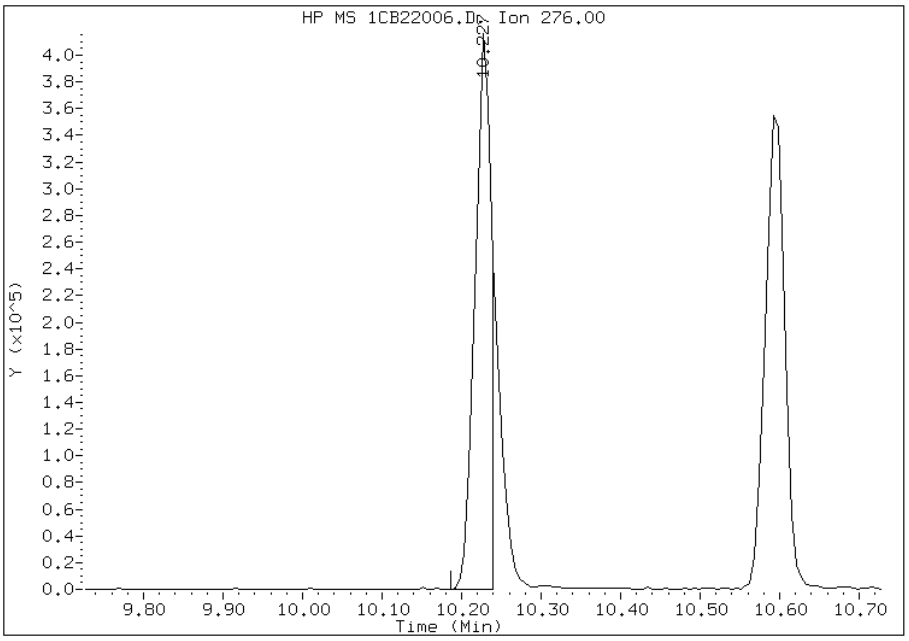
Manual Integration Results

RT: 10.23

Response: 582935

Amount: 10

Conc: 10



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22007.D
Lab Smp Id: ICIS-1512372
Inj Date : 22-FEB-2013 13:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:53 Cal File: 1CB22006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1215005	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	932815	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1859738	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	558161	20.0000	19.8783
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2424157	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2664188	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	643945	20.0000	20.3579
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	439231	20.0000	20.8172
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	396283	20.0000	20.6220
5 Acenaphthylene	152	4.804	4.804	(0.982)	771781	20.0000	20.5216
7 Acenaphthene	154	4.910	4.910	(1.004)	450754	20.0000	19.2831
9 Fluorene	166	5.233	5.233	(1.070)	610839	20.0000	20.6625
11 Phenanthrene	178	5.863	5.863	(1.003)	1014750	20.0000	18.8701
12 Anthracene	178	5.898	5.898	(1.009)	1007571	20.0000	19.1582
13 Carbazole	167	6.004	6.004	(1.027)	917432	20.0000	19.6239
15 Fluoranthene	202	6.704	6.704	(1.147)	1173070	20.0000	19.9194
16 Pyrene	202	6.874	6.874	(0.882)	1289224	20.0000	19.7898
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1287277	20.0000	18.3986
19 Chrysene	228	7.815	7.815	(1.002)	1322748	20.0000	18.8914
20 Benzo(b)fluoranthene	252	8.657	8.657	(0.960)	1514965	20.0000	21.7588
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1360131	20.0000	19.0428
22 Benzo(a)pyrene	252	8.957	8.957	(0.993)	1363217	20.0000	20.1573
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1327322	20.0000	19.9642(M)
25 Dibenzo(a,h)anthracene	278	10.251	10.251	(1.137)	1220845	20.0000	19.6186
26 Benzo(g,h,i)perylene	276	10.598	10.598	(1.175)	1289503	20.0000	19.3760

QC Flag Legend

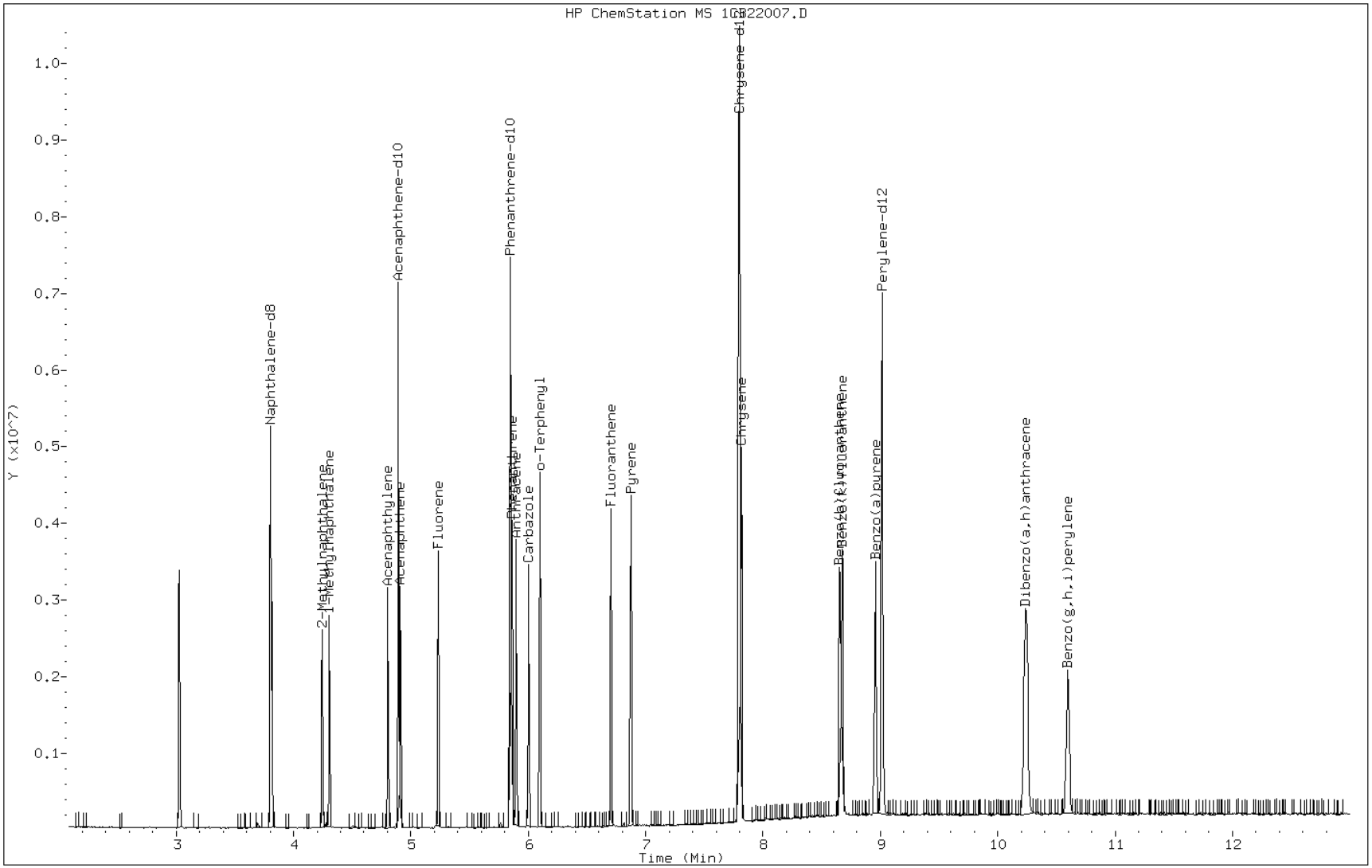
M - Compound response manually integrated.

Data File: 1CB22007.D

Date: 22-FEB-2013 13:11

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1CB22007.D
Inj. Date and Time: 22-FEB-2013 13:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

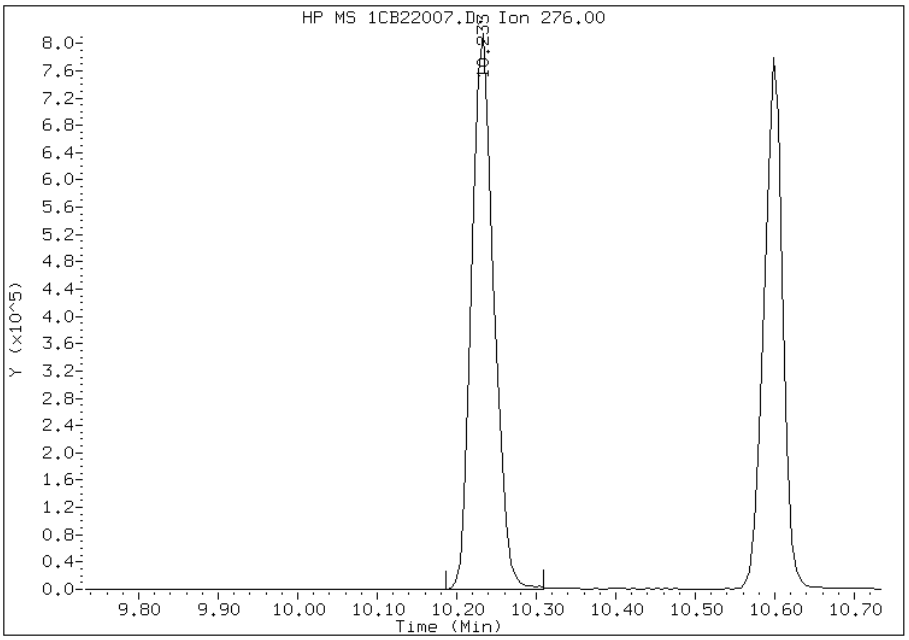
Processing Integration Results

RT: 10.23

Response: 1569498

Amount: 25

Conc: 25



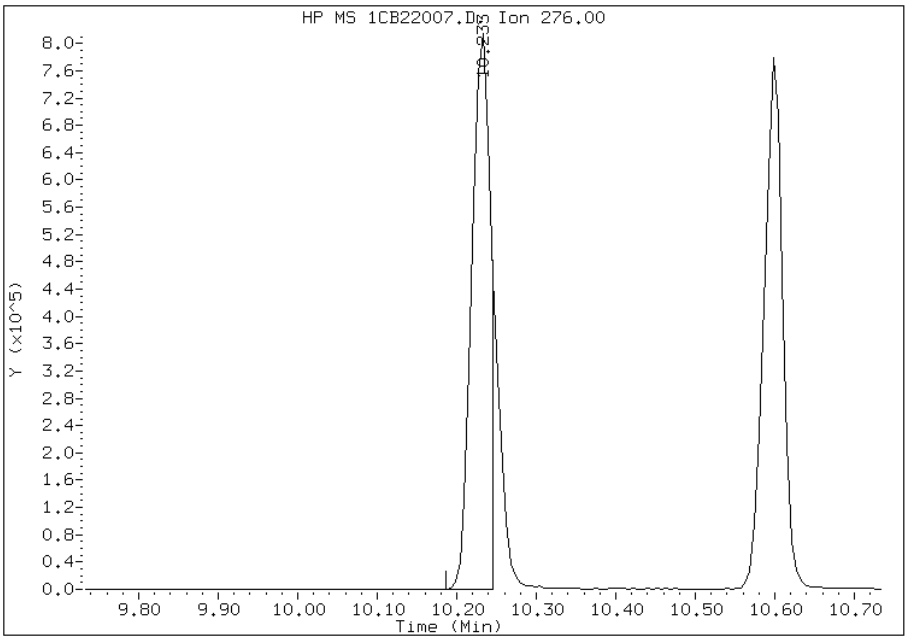
Manual Integration Results

RT: 10.23

Response: 1327322

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:11
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 13:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:11 Cal File: 1CB22007.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)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1245095	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	988838	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1864829	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	872937	30.0000	31.0038
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2477918	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2673716	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	977462	30.0000	30.1550
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	647691	30.0000	29.9553
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	595177	30.0000	30.2237
5 Acenaphthylene	152	4.804	4.804	(0.982)	1208002	30.0000	30.3009
7 Acenaphthene	154	4.910	4.910	(1.004)	706037	30.0000	28.4928
9 Fluorene	166	5.233	5.233	(1.070)	961751	30.0000	30.6894
11 Phenanthrene	178	5.863	5.863	(1.003)	1575924	30.0000	29.2256
12 Anthracene	178	5.898	5.898	(1.009)	1605221	30.0000	30.4388
13 Carbazole	167	6.004	6.004	(1.027)	1379814	30.0000	29.4337
15 Fluoranthene	202	6.704	6.704	(1.147)	1826908	30.0000	30.9373
16 Pyrene	202	6.874	6.874	(0.882)	1978030	30.0000	29.7043
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	2005529	30.0000	28.0424
19 Chrysene	228	7.821	7.821	(1.003)	2071419	30.0000	28.9420
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	2159068	30.0000	30.8993
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	2175966	30.0000	30.3566
22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	2128065	30.0000	31.3547
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1907725	30.0000	28.5918(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	1913283	30.0000	30.6363
26 Benzo(g,h,i)perylene	276	10.603	10.603	(1.176)	1999689	30.0000	29.9402

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22008.D

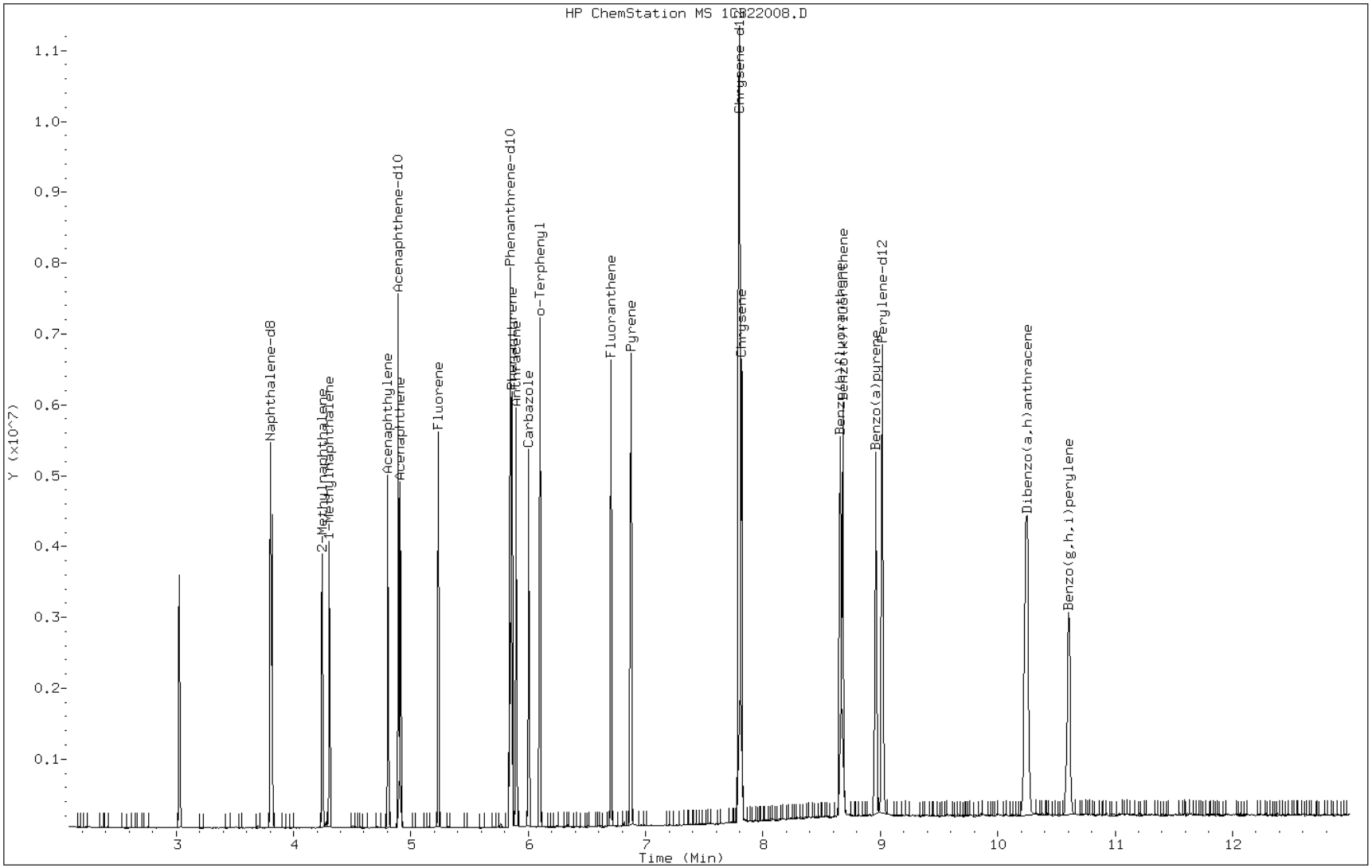
Date: 22-FEB-2013 13:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512373

Operator: SCC



Manual Integration Report

Data File: 1CB22008.D
Inj. Date and Time: 22-FEB-2013 13:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

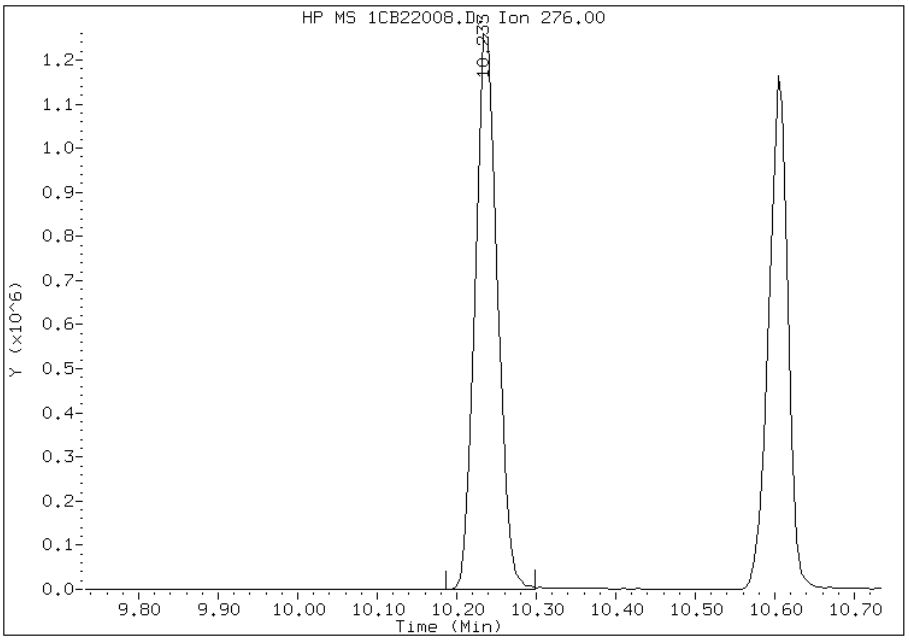
Processing Integration Results

RT: 10.23

Response: 2435528

Amount: 36

Conc: 36



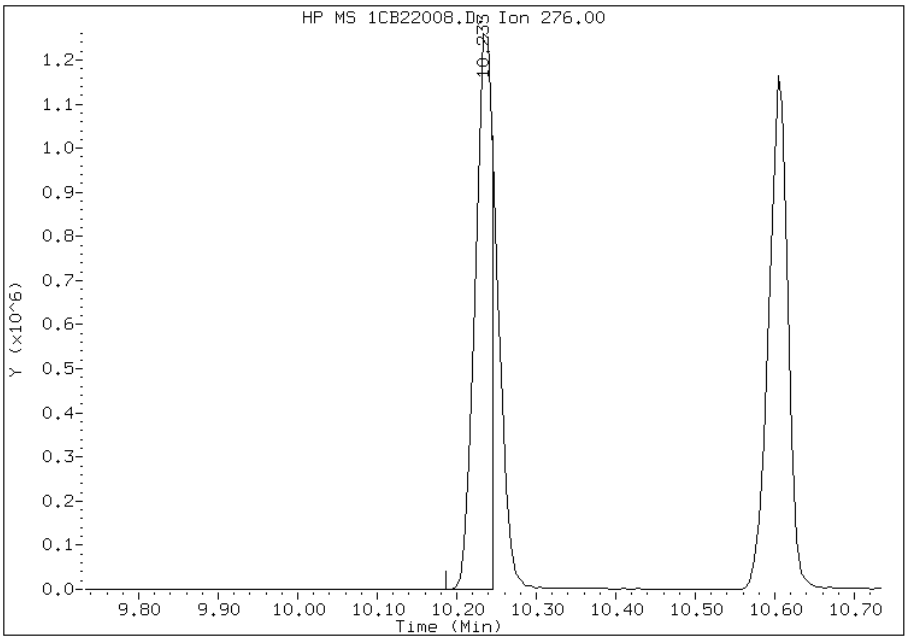
Manual Integration Results

RT: 10.23

Response: 1907725

Amount: 29

Conc: 29



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 13:48
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:29 Cal File: 1CB22008.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)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1341221	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1022497	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1952764	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	1512079	50.0000	51.2857(A)
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2476604	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2509650	40.0000	
2 Naphthalene	128	3.815	3.815	(1.003)	1788680	50.0000	51.2265(A)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	1170415	50.0000	50.2513(A)
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	1106965	50.0000	52.1840(A)
5 Acenaphthylene	152	4.804	4.804	(0.982)	2158422	50.0000	52.3585(A)
7 Acenaphthene	154	4.910	4.910	(1.004)	1241216	50.0000	48.4415
9 Fluorene	166	5.233	5.233	(1.070)	1689190	50.0000	52.1276(A)
11 Phenanthrene	178	5.862	5.862	(1.003)	2774518	50.0000	49.1366
12 Anthracene	178	5.898	5.898	(1.009)	2853457	50.0000	51.6717(A)
13 Carbazole	167	6.004	6.004	(1.027)	2470847	50.0000	50.3338(A)
15 Fluoranthene	202	6.704	6.704	(1.147)	3133704	50.0000	50.6773(A)
16 Pyrene	202	6.874	6.874	(0.882)	3458322	50.0000	51.9617(A)
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	3342573	50.0000	46.7626
19 Chrysene	228	7.821	7.821	(1.003)	3423784	50.0000	47.8628
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	3419972	50.0000	52.1444(A)
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	3517880	50.0000	52.2859(A)
22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	3380087	50.0000	53.0576(A)
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.239	(1.136)	3187834	50.0000	50.9008(AM)
25 Dibenzo(a,h)anthracene	278	10.256	10.256	(1.138)	2995648	50.0000	51.1034(A)
26 Benzo(g,h,i)perylene	276	10.609	10.609	(1.177)	3142464	50.0000	50.1261(A)

QC Flag Legend

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

Data File: 1CB22009.D

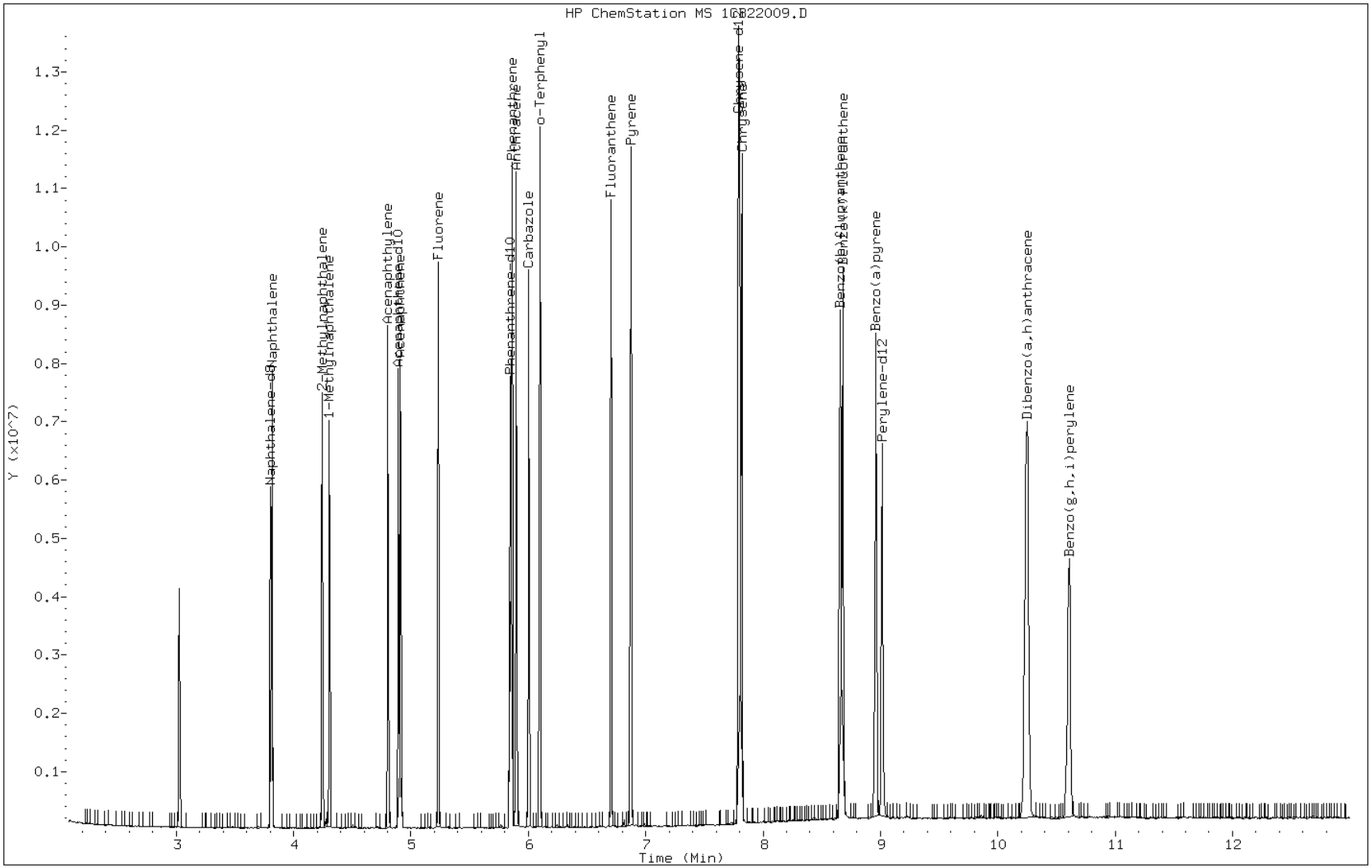
Date: 22-FEB-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512374

Operator: SCC



Manual Integration Report

Data File: 1CB22009.D
Inj. Date and Time: 22-FEB-2013 13:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

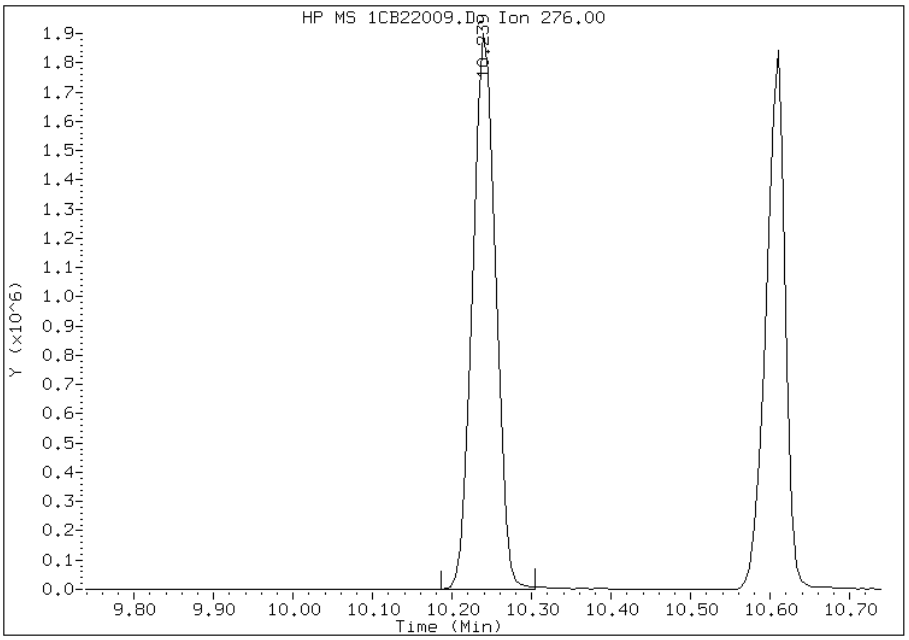
Processing Integration Results

RT: 10.24

Response: 3825990

Amount: 51

Conc: 51



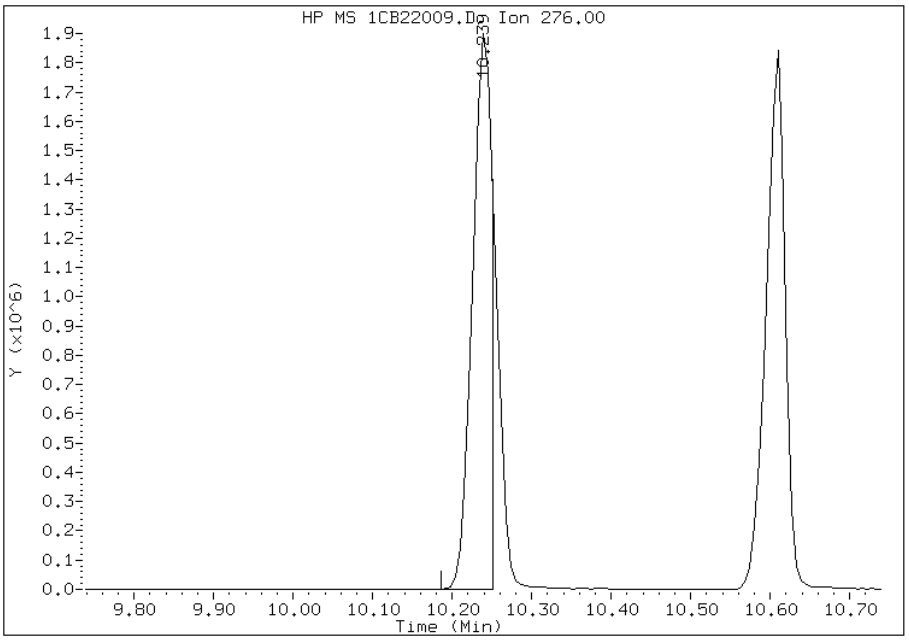
Manual Integration Results

RT: 10.24

Response: 3187834

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-2 Analy Batch No.: 136048

SDG No.: 68088632-2

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.: 680-88632-2 Analy Batch No.: 136048

SDG No.: 68088632-2

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.: 680-88632-2 Analy B

SDG No.: 68088632-2

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

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibra

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					CO	
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7
Naphthalene	NPT	Ave	2264 350333	10440 668649	65815	121970	253190	0.200 30.0	1 50
2-Methylnaphthalene	NPT	Ave	1726 228375	7695 447751	39376	89978	158694	0.200 30.0	1 50
1-Methylnaphthalene	NPT	Ave	1649 221182	5100 419135	37056	73198	163647	0.200 30.0	1 50
Acenaphthylene	ANT	Ave	2387 423924	12563 814053	70473	148174	308909	0.200 30.0	1 50
Acenaphthene	ANT	Lin	1338 244735	10900 480392	39421	84460	191043	0.200 30.0	1 50
Fluorene	ANT	Ave	2130 331328	11990 638557	58298	114648	243174	0.200 30.0	1 50
Phenanthrene	PHN	Ave	3900 529536	16838 1077014	88442	194036	392252	0.200 30.0	1 50
Anthracene	PHN	Ave	3761 557837	16401 1098599	90016	200131	408192	0.200 30.0	1 50
Carbazole	PHN	Ave	2871 488550	13272 948101	83549	167822	376402	0.200 30.0	1 50
Fluoranthene	PHN	Ave	3316 607836	17746 1248081	105772	224705	468708	0.200 30.0	1 50
Pyrene	CRY	Ave	4087 663294	20532 1360548	109963	236267	498076	0.200 30.0	1 50
Benzo[a]anthracene	CRY	Lin	7657 659379	24413 1380443	110756	250220	491852	0.200 30.0	1 50
Chrysene	CRY	Ave	3963 659226	22752 1377767	118460	247512	494376	0.200 30.0	1 50
Benzo[b]fluoranthene	PRY	Ave	5890 671785	19731 1443812	127315	261073	494109	0.200 30.0	1 50
Benzo[k]fluoranthene	PRY	Ave	4185 719552	22203 1396501	121957	258924	517620	0.200 30.0	1 50
Benzo[a]pyrene	PRY	Ave	5100 655944	20343 1403971	112782	240110	482722	0.200 30.0	1 50
Indeno[1,2,3-cd]pyrene	PRY	Ave	5188 655344	19198 1242391	114519	222795	412839	0.200 30.0	1 50
Dibenz(a,h)anthracene	PRY	Ave	3872 600720	19937 1194691	97409	216036	435940	0.200 30.0	1 50
Benzo[g,h,i]perylene	PRY	Ave	4492 675124	20561 1270187	117403	233308	470085	0.200 30.0	1 50
o-Terphenyl	PHN	Lin	2496 275212	7501 587824	45027	103309	211673	0.200 30.0	1 50

Curve Type Legend:
Ave = Average ISTD
Lin = Linear ISTD

136048

N

2859

LVL 3	LVL 4	LVL 5
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0

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

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

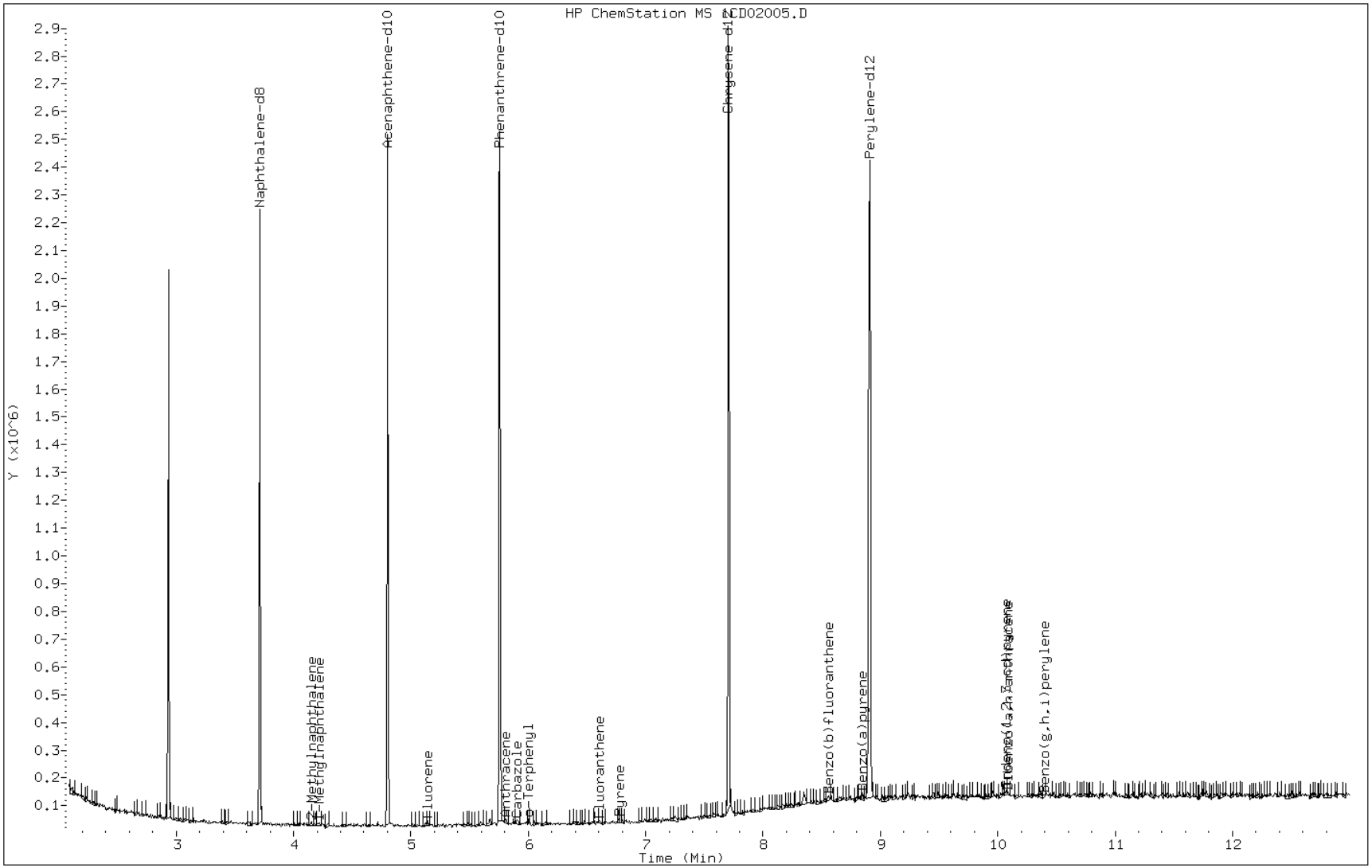
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

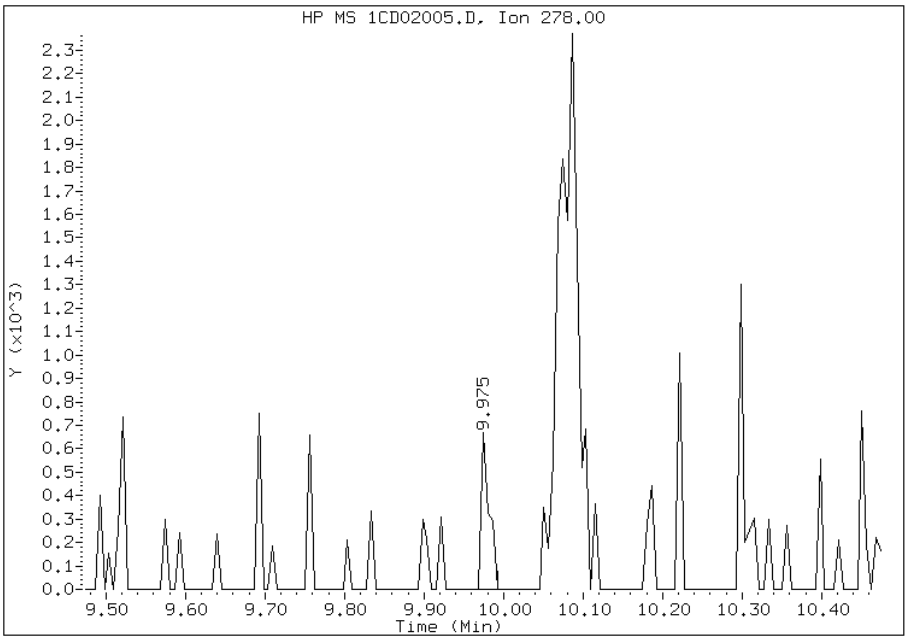
Processing Integration Results

RT: 9.97

Response: 454

Amount: 0

Conc: 0



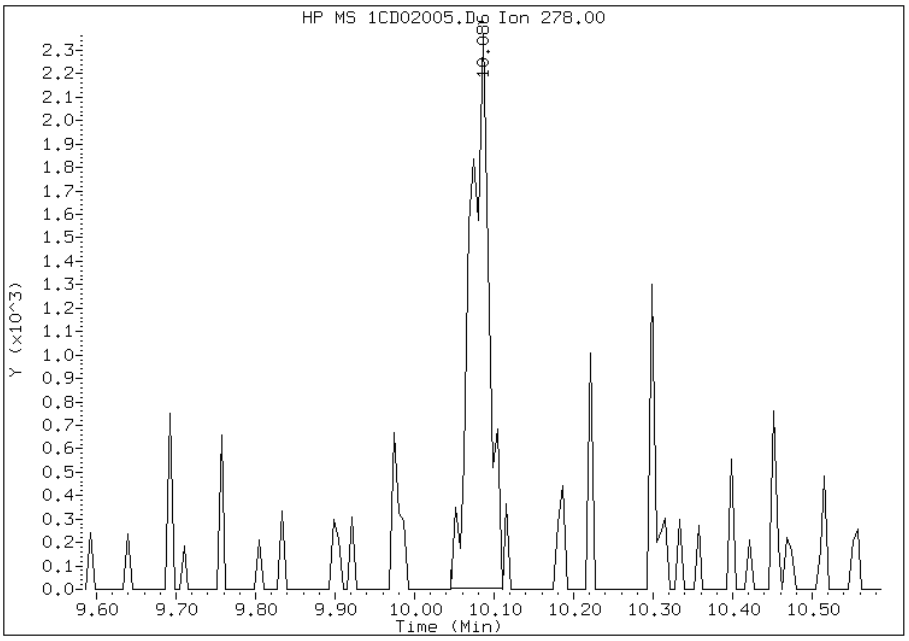
Manual Integration Results

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)	AMOUNTS 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

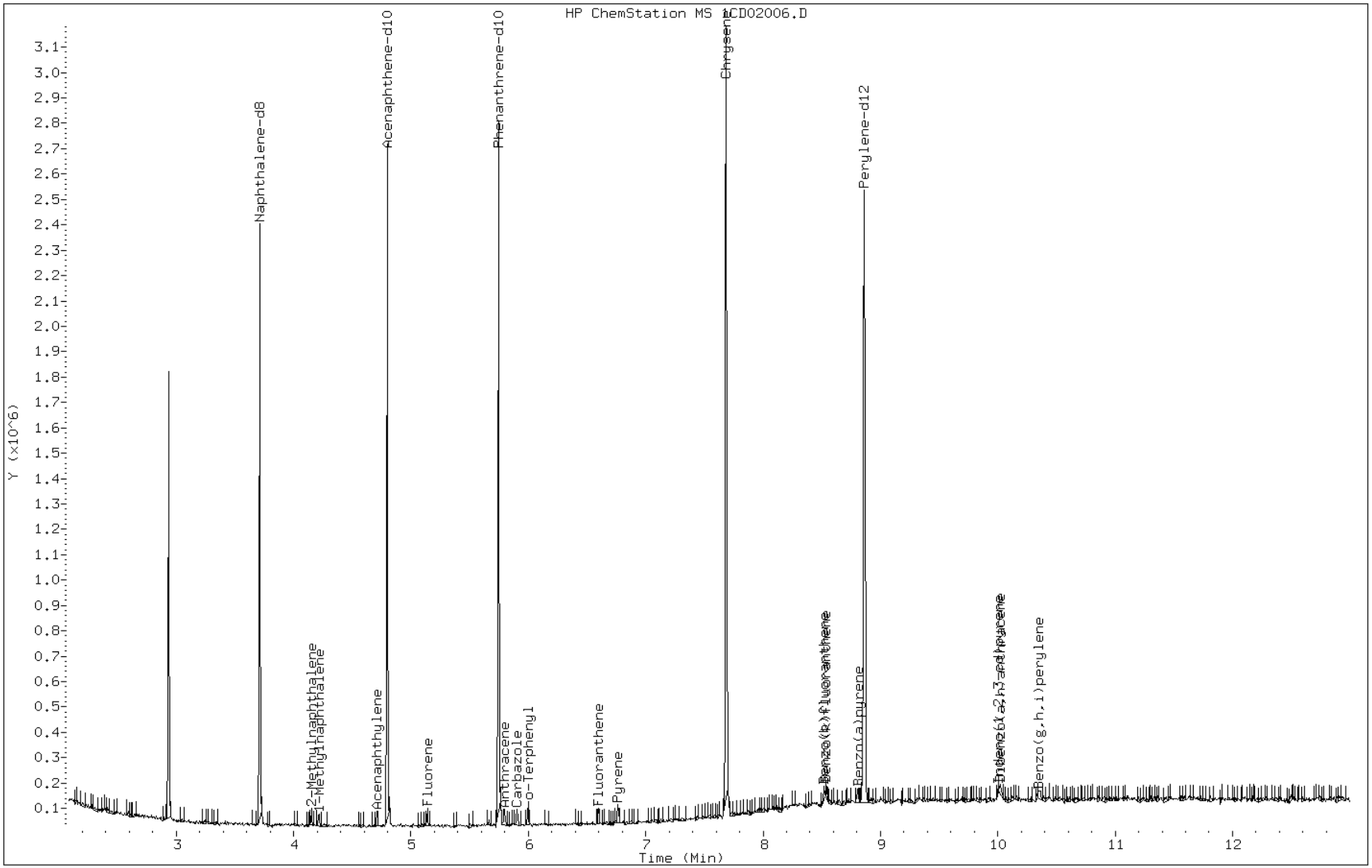
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

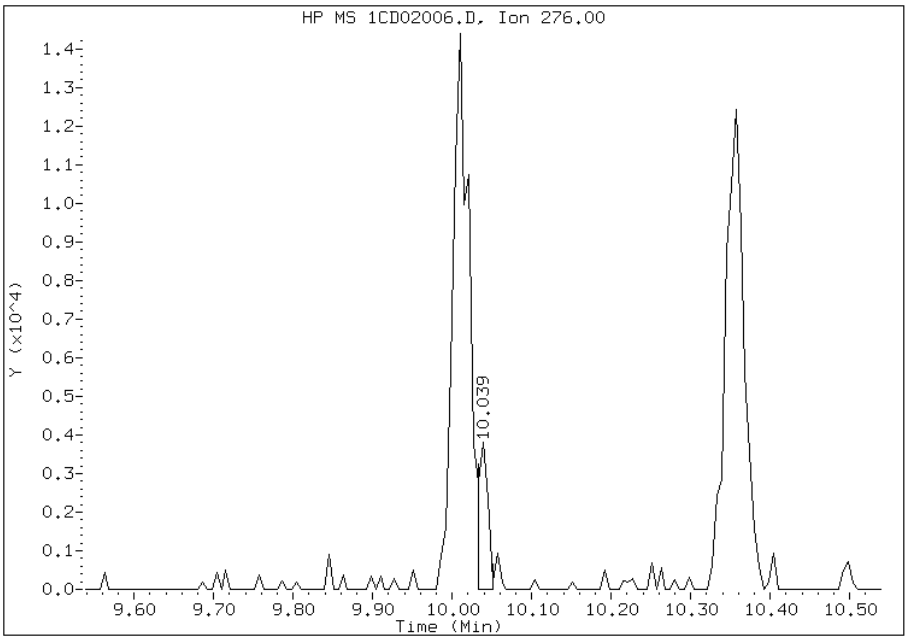
Processing Integration Results

RT: 10.04

Response: 3225

Amount: 0

Conc: 0



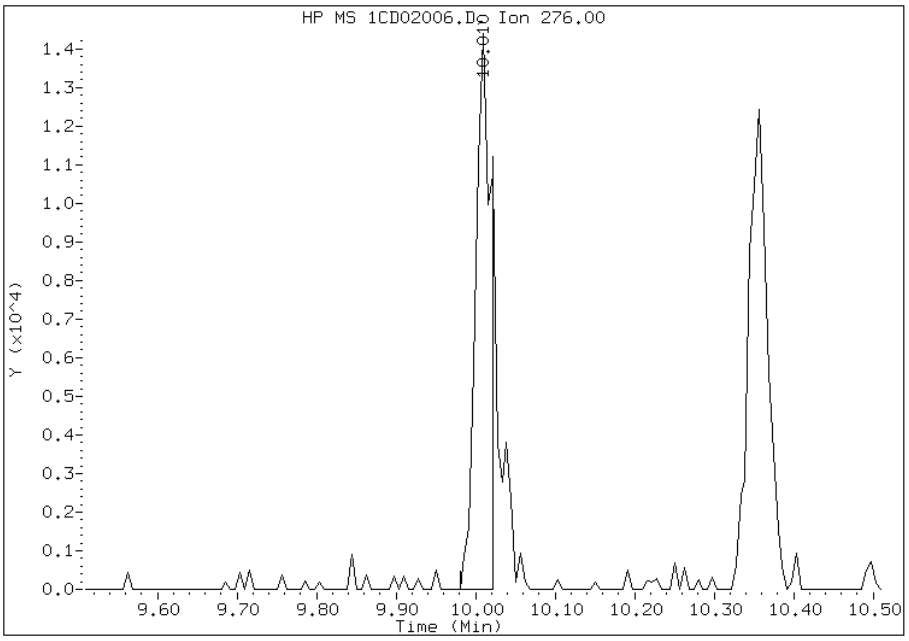
Manual Integration Results

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS 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

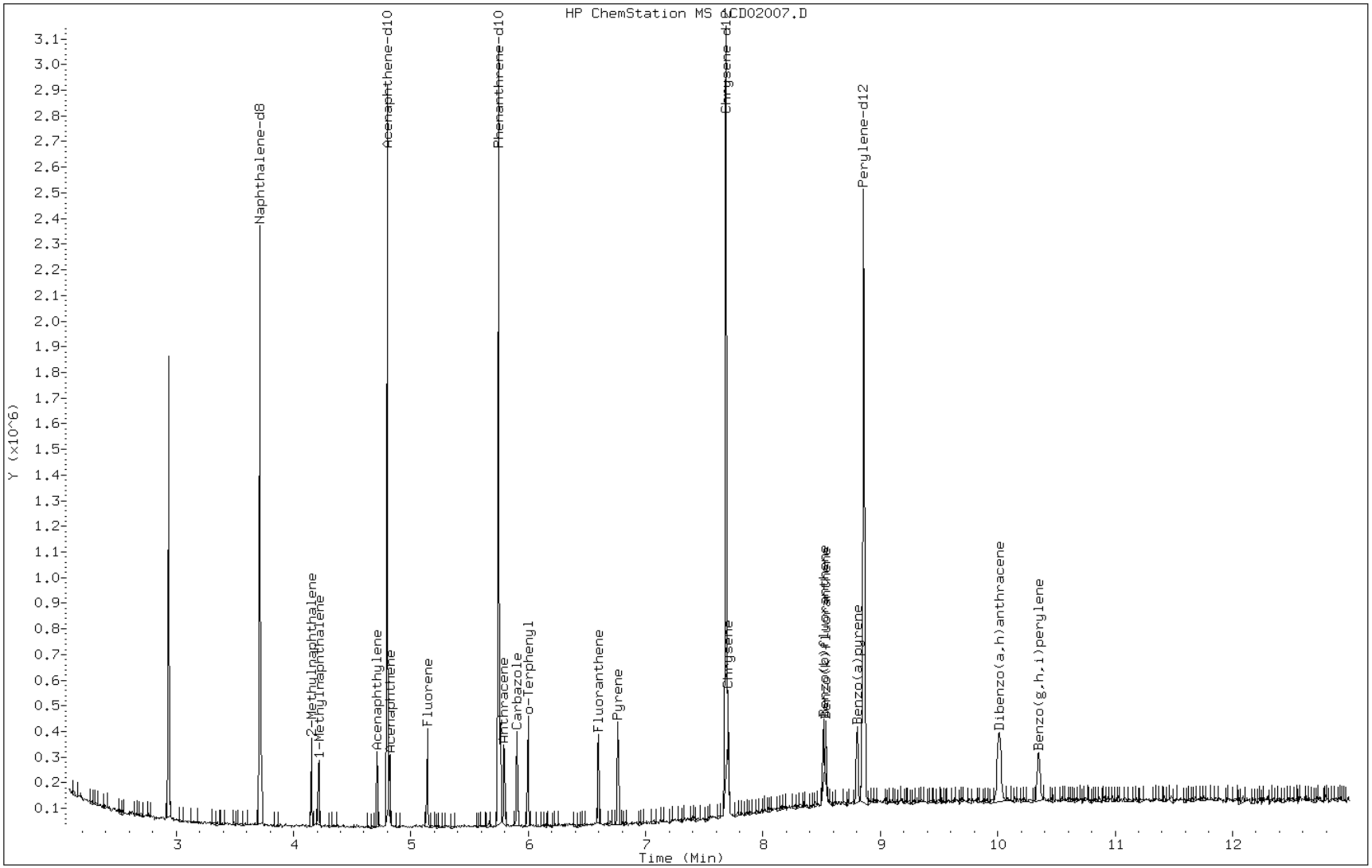
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

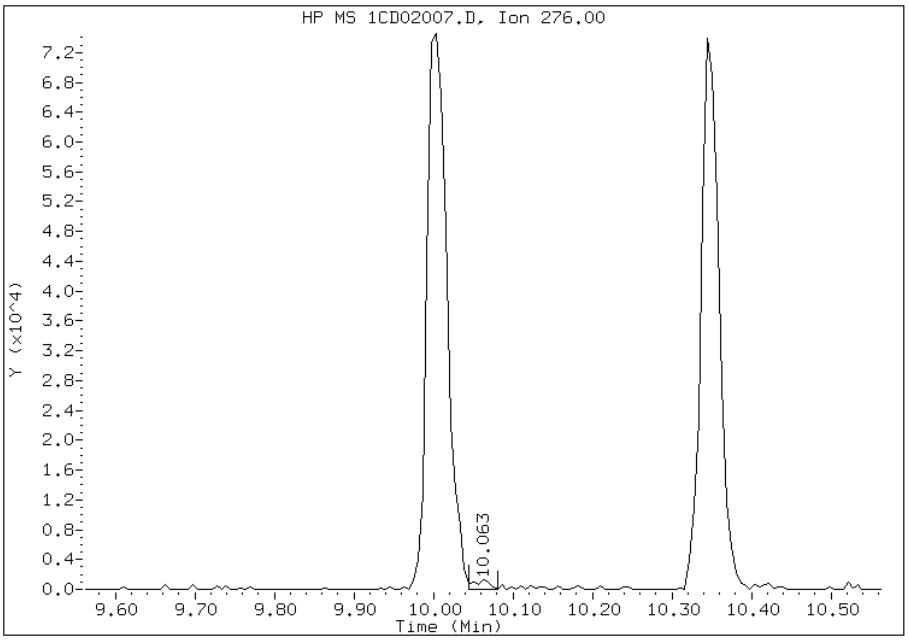
Processing Integration Results

RT: 10.06

Response: 1809

Amount: 0

Conc: 0



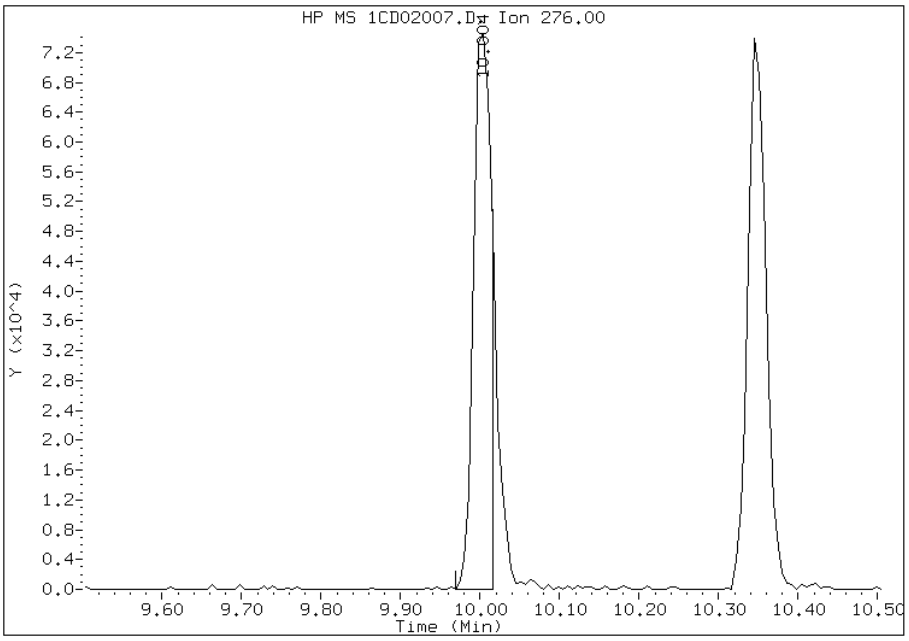
Manual Integration Results

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)	AMOUNTS 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

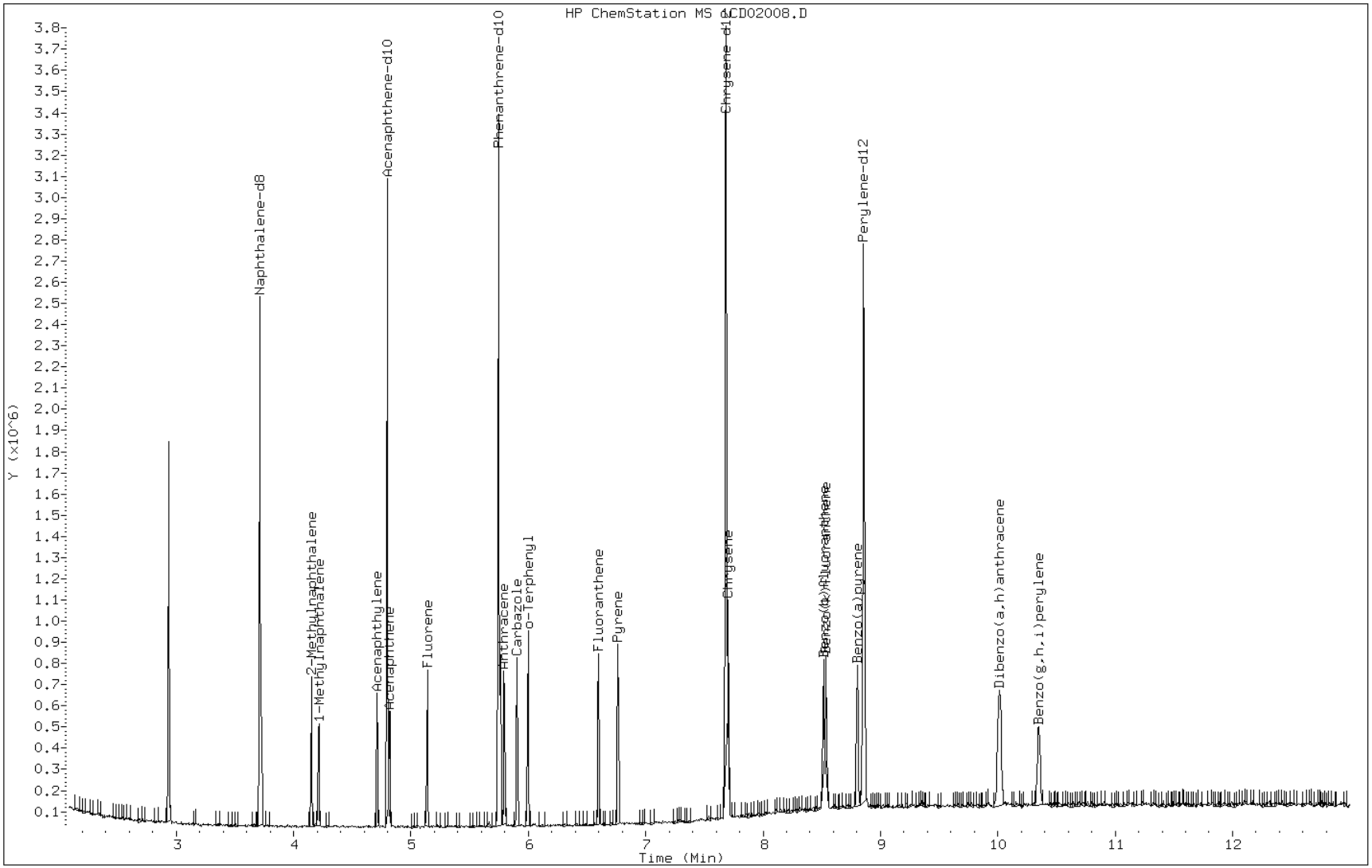
Date: 02-APR-2013 14:20

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

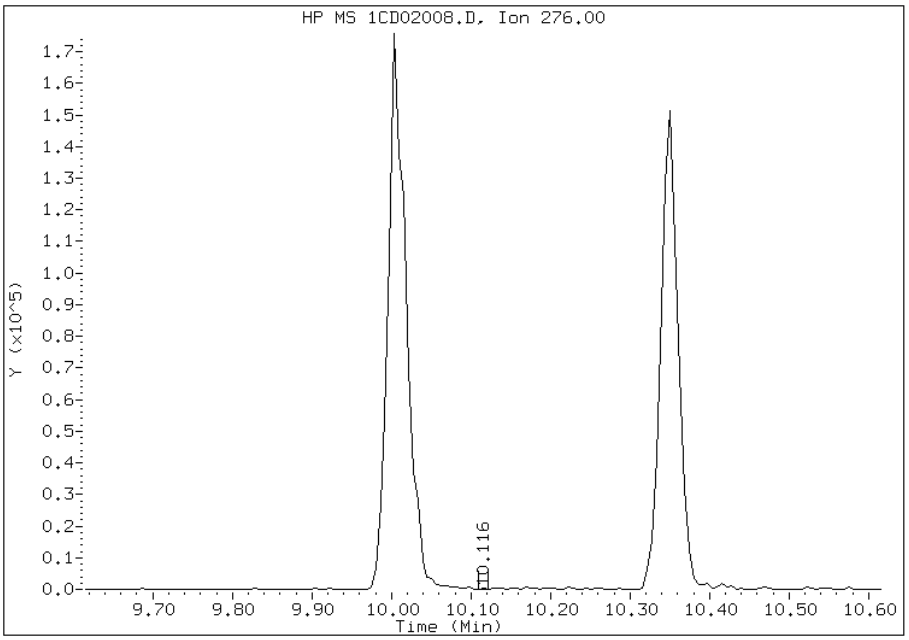
Processing Integration Results

RT: 10.12

Response: 142

Amount: 0

Conc: 0



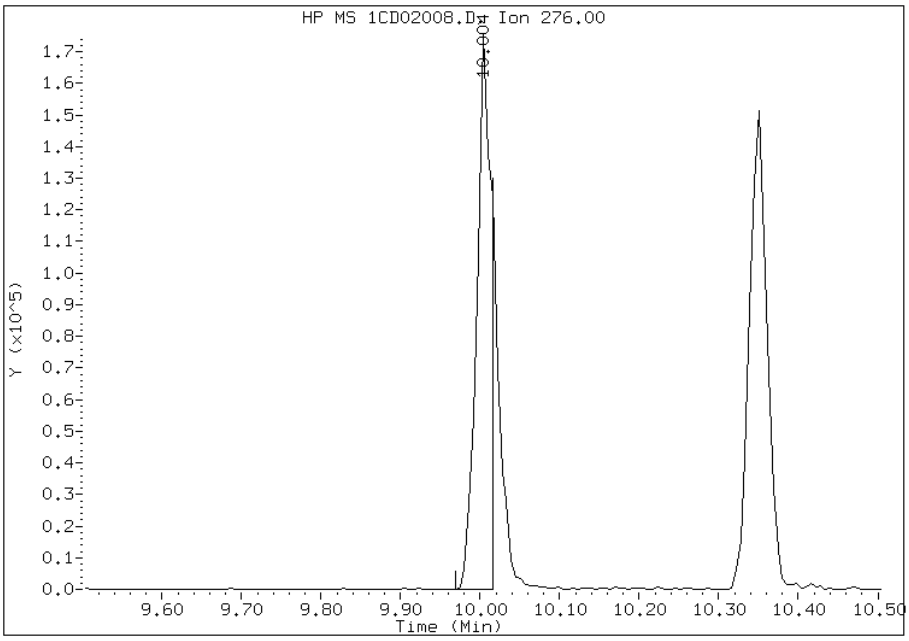
Manual Integration Results

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)	AMOUNTS 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

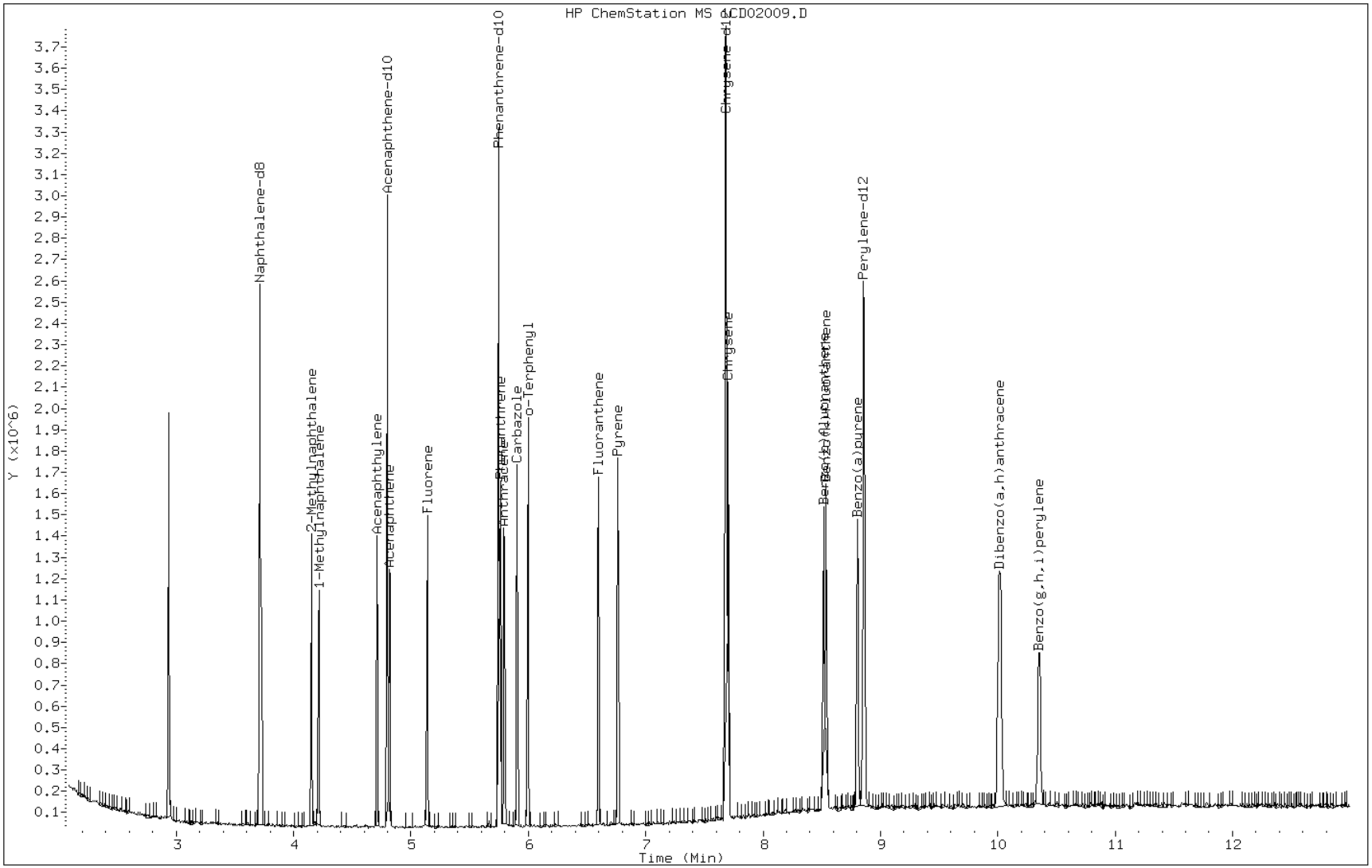
M - Compound response manually integrated.

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

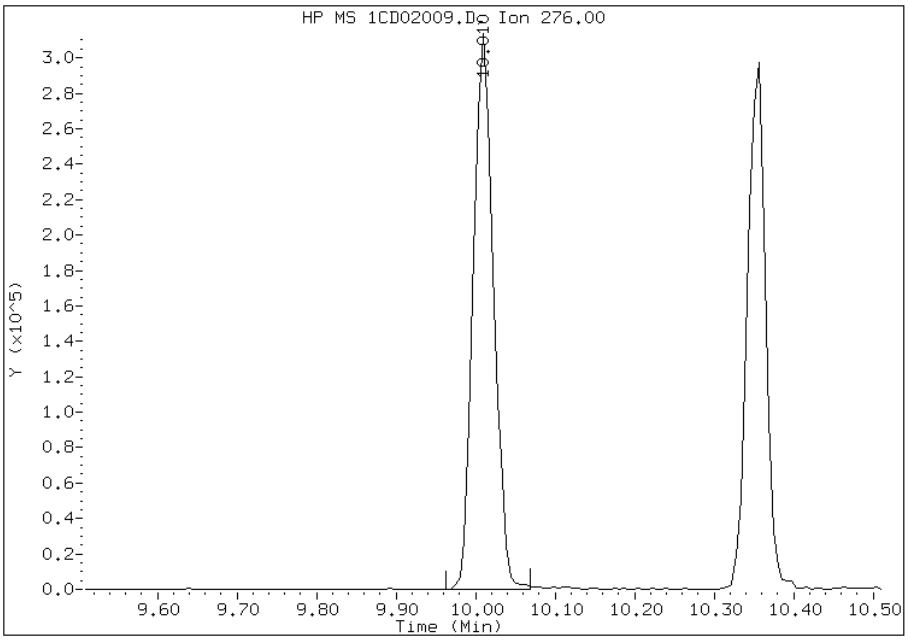
Processing Integration Results

RT: 10.01

Response: 550558

Amount: 32

Conc: 32



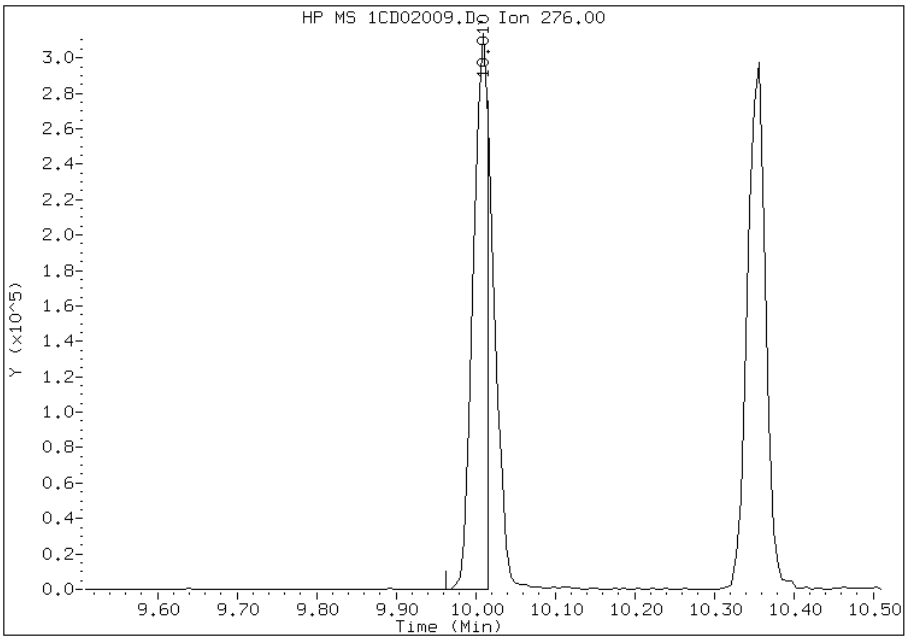
Manual Integration Results

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)	AMOUNTS 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

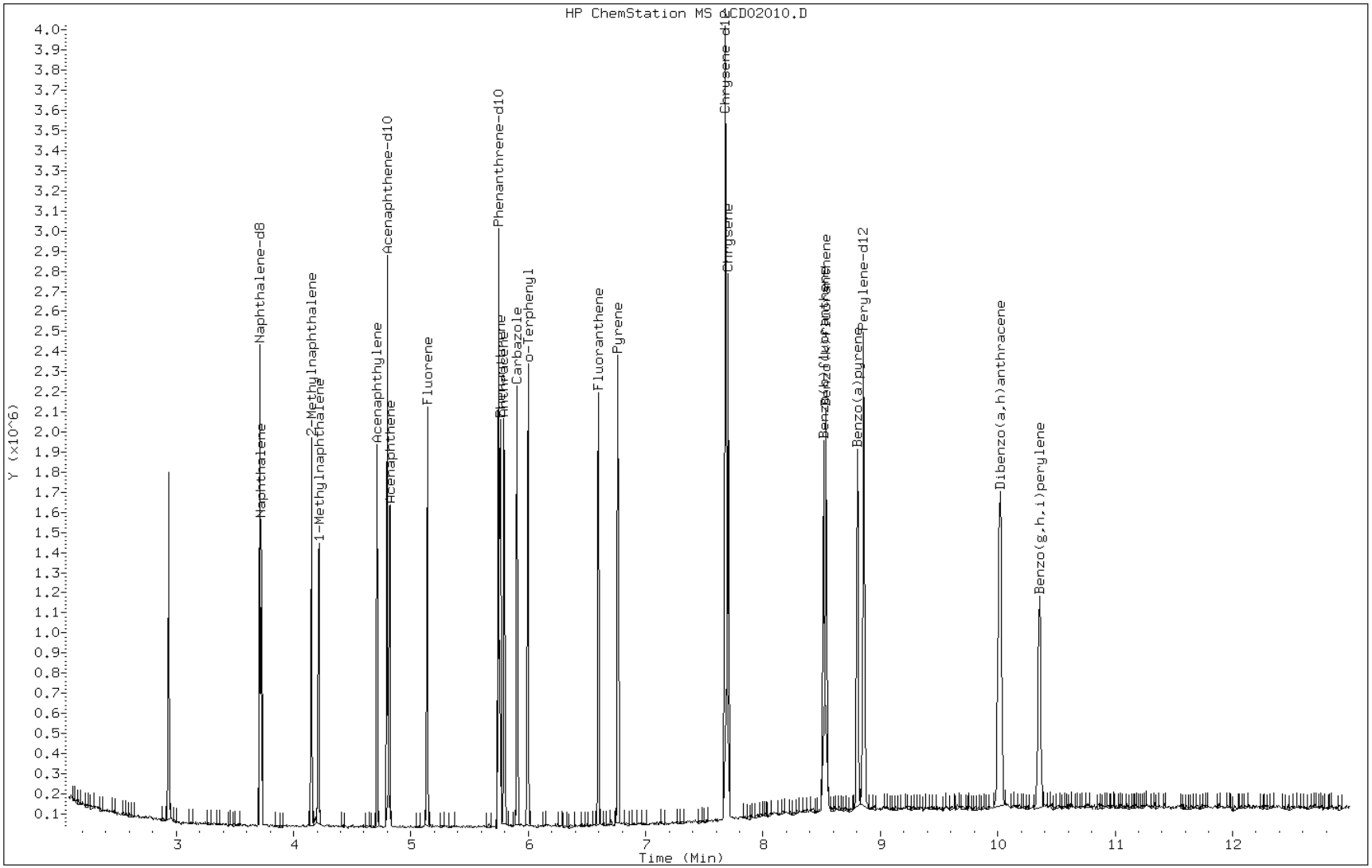
Date: 02-APR-2013 14:57

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

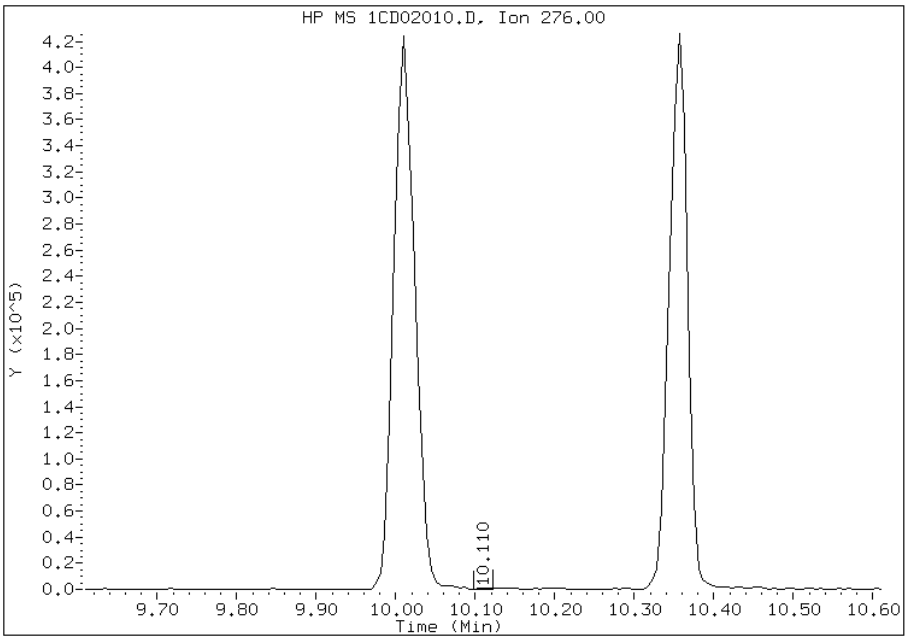
Processing Integration Results

RT: 10.11

Response: 1008

Amount: 0

Conc: 0



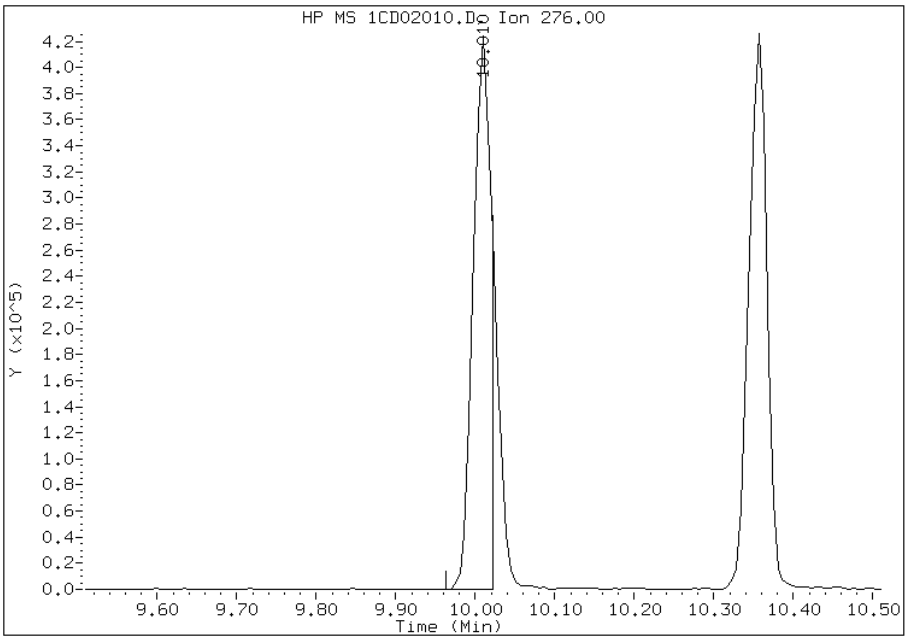
Manual Integration Results

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)	AMOUNTS 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

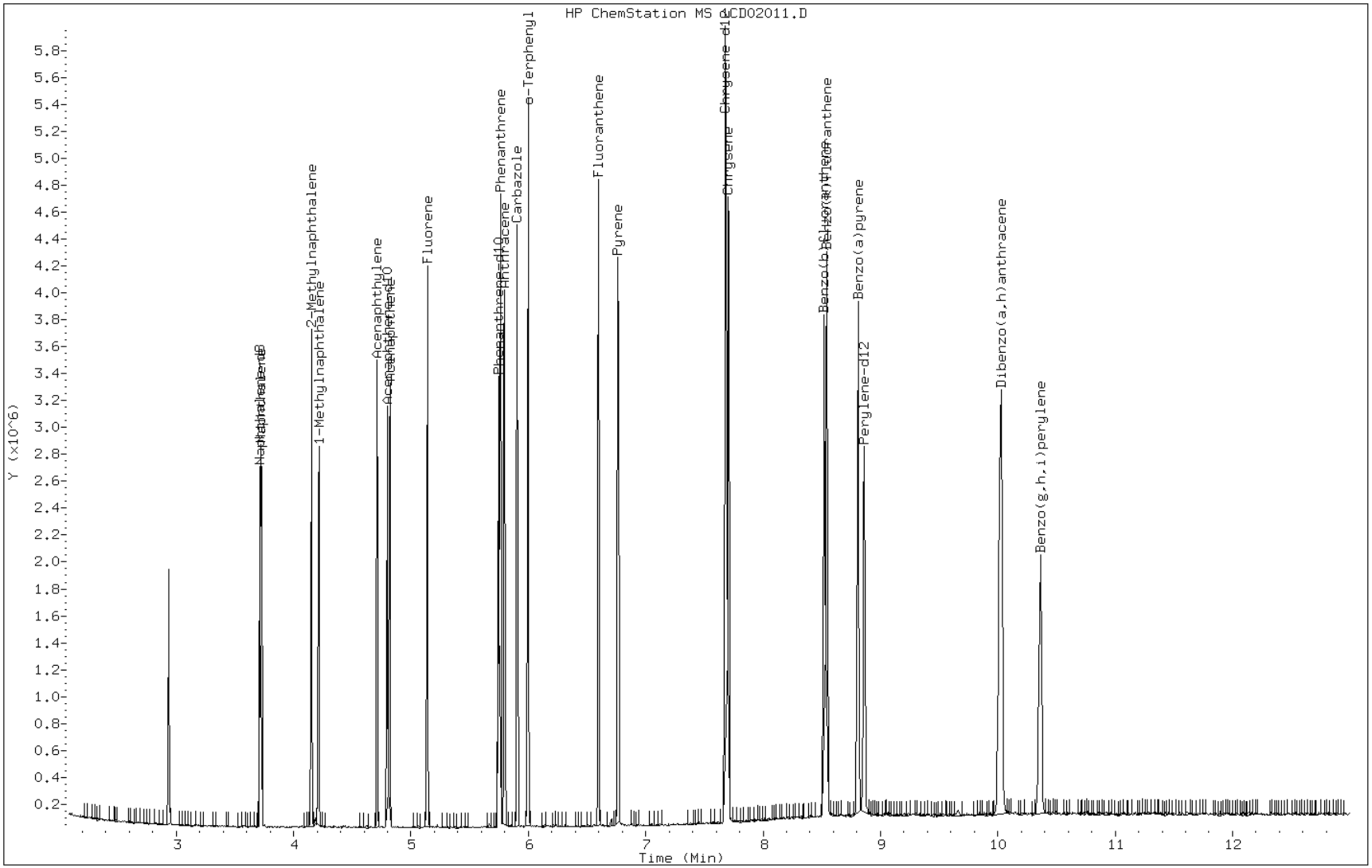
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

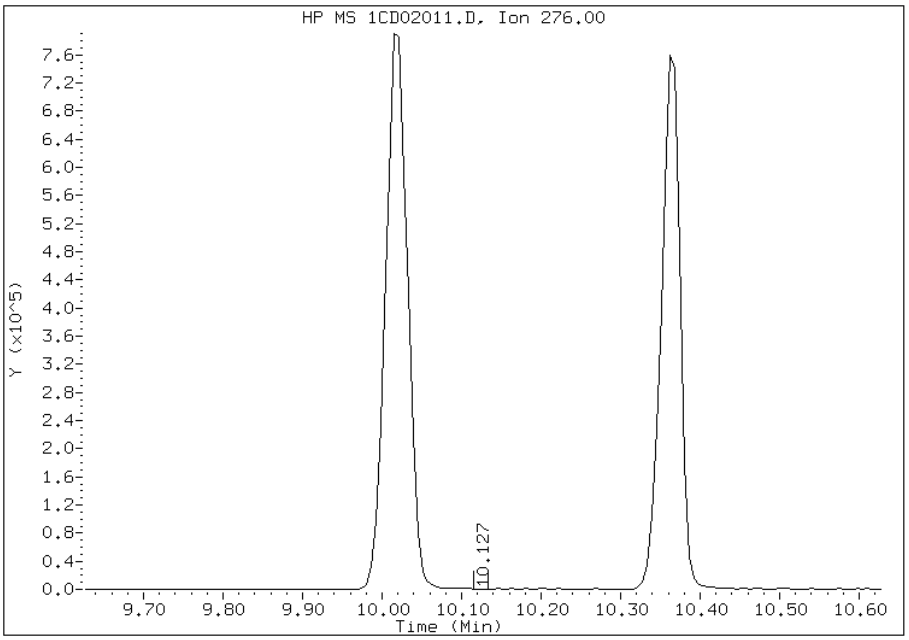
Processing Integration Results

RT: 10.13

Response: 653

Amount: 0

Conc: 0



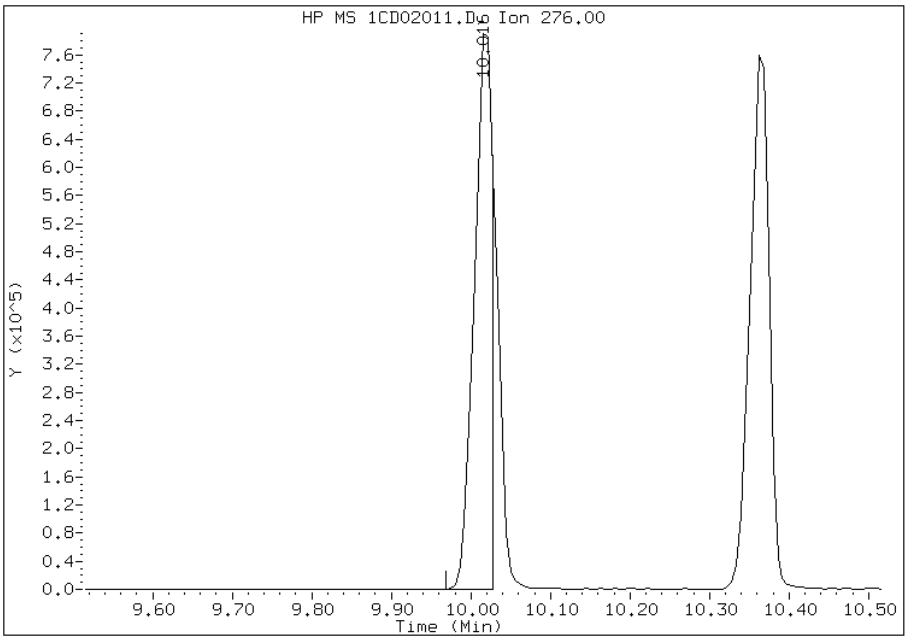
Manual Integration Results

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-2 Analy Batch No.: 134781

SDG No.: 68088632-2

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

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.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	1.1280 1.0523	1.0553 1.0405	1.0642	1.0918	1.0581	Ave		1.0700			0.0000	2.8		15.0			
2-Methylnaphthalene	0.7034 0.6669	0.6712 0.6728	0.6797	0.7002	0.6770	Ave		0.6816			0.0000	2.1		15.0			
1-Methylnaphthalene	0.6099 0.6325	0.6631 0.6258	0.6460	0.6514	0.6392	Ave		0.6383			0.0000	2.7		15.0			
Acenaphthylene	1.6661 1.7814	1.7639 1.7689	1.7448	1.8238	1.7955	Ave		1.7635			0.0000	2.8		15.0			
Acenaphthene	1.1402 1.0526	1.0845 1.0396	1.0477	1.1072	1.0550	Ave		1.0753			0.0000	3.5		15.0			
Fluorene	1.2209 1.2661	1.2731 1.2520	1.2478	1.2756	1.2585	Ave		1.2563			0.0000	1.5		15.0			
Phenanthrene	1.2165 1.1039	1.1314 1.0752	1.1449	1.1623	1.1141	Ave		1.1355			0.0000	4.0		15.0			
Anthracene	1.1088 1.1419	1.0967 1.1309	1.1548	1.1738	1.1455	Ave		1.1361			0.0000	2.3		15.0			
Carbazole	0.9989 1.0251	0.9725 1.0106	1.0326	1.0515	1.0179	Ave		1.0156			0.0000	2.5		15.0			
Fluoranthene	1.2255 1.1884	1.1239 1.1523	1.1976	1.2199	1.1869	Ave		1.1849			0.0000	3.0		15.0			
Pyrene	1.1729 1.2433	1.2578 1.2072	1.2525	1.2954	1.2562	Ave		1.2408			0.0000	3.2		15.0			
Benzo[a]anthracene	1.6058 1.1034	1.1616 1.0898	1.1024	1.1235	1.1016	LinF		1.0951			0.0000				0.9999		0.9900
Chrysene	1.1781 1.1047	1.1583 1.0841	1.1177	1.1544	1.1168	Ave		1.1306			0.0000	3.0		15.0			
Benzo[b]fluoranthene	0.9830 1.0461	1.0325 1.0528	1.0066	1.0593	1.0269	Ave		1.0296			0.0000	2.6		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-2 Analy Batch No.: 134781

SDG No.: 68088632-2

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

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

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	1.0760 1.0603	1.0460 1.0472	1.1052	1.1212	1.0903	Ave		1.0780			0.0000	2.7		15.0			
Benzo[a]pyrene	0.9398 1.0484	0.9776 1.0366	1.0344	1.0539	1.0414	Ave		1.0189			0.0000	4.2		15.0			
Indeno[1,2,3-cd]pyrene	1.0120 1.1423	1.0104 1.1459	1.0416	1.1166	1.1424	Ave		1.0873			0.0000	5.8		15.0			
Dibenz(a,h)anthracene	0.9455 1.0206	0.9830 1.0192	1.0084	1.0295	1.0229	Ave		1.0042			0.0000	3.0		15.0			
Benzo[g,h,i]perylene	1.0182 1.0480	1.0153 1.0408	1.0329	1.0607	1.0410	Ave		1.0367			0.0000	1.6		15.0			
o-Terphenyl	0.6320 0.6161	0.6127 0.5977	0.6203	0.6323	0.6189	Ave		0.6186			0.0000	1.9		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88632-2 Analy B

SDG No.: 68088632-2

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

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibra

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CO	
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7
Naphthalene	NPT	Ave	15953 2298963	74498 3699527	371017	777491	1508569	0.200 30.0	1 50
2-Methylnaphthalene	NPT	Ave	9948 1457082	47384 2392281	236964	498648	965225	0.200 30.0	1 50
1-Methylnaphthalene	NPT	Ave	8626 1381962	46812 2225072	225226	463905	911252	0.200 30.0	1 50
Acenaphthylene	ANT	Ave	14047 2298195	75049 3717778	364710	773248	1512937	0.200 30.0	1 50
Acenaphthene	ANT	Ave	9613 1357997	46142 2184846	218994	469400	889006	0.200 30.0	1 50
Fluorene	ANT	Ave	10293 1633465	54168 2631357	260823	540812	1060484	0.200 30.0	1 50
Phenanthrene	PHN	Ave	16602 2324547	78922 3708574	386527	798454	1536701	0.200 30.0	1 50
Anthracene	PHN	Ave	15132 2404366	76501 3900989	389851	806411	1580088	0.200 30.0	1 50
Carbazole	PHN	Ave	13633 2158453	67837 3485796	348596	722383	1404089	0.200 30.0	1 50
Fluoranthene	PHN	Ave	16725 2502381	78399 3974777	404310	838075	1637186	0.200 30.0	1 50
Pyrene	CRY	Ave	16387 2630026	86802 4199944	429030	897242	1722041	0.200 30.0	1 50
Benzo[a]anthracene	CRY	LinF	22435 2334008	80159 3791270	377597	778182	1510209	0.200 30.0	1 50
Chrysene	CRY	Ave	16460 2336752	79936 3771462	382861	799570	1531008	0.200 30.0	1 50
Benzo[b]fluoranthene	PRY	Ave	14372 2331940	74603 3853307	359912	772745	1490545	0.200 30.0	1 50
Benzo[k]fluoranthene	PRY	Ave	15732 2363523	75578 3832862	395166	817887	1582576	0.200 30.0	1 50
Benzo[a]pyrene	PRY	Ave	13740 2336988	70635 3794269	369863	768774	1511646	0.200 30.0	1 50
Indeno[1,2,3-cd]pyrene	PRY	Ave	14796 2546397	73004 4194422	372428	814504	1658275	0.200 30.0	1 50
Dibenz(a,h)anthracene	PRY	Ave	13824 2275035	71027 3730665	360565	750999	1484721	0.200 30.0	1 50
Benzo[g,h,i]perylene	PRY	Ave	14886 2336152	73360 3809441	369321	773773	1511031	0.200 30.0	1 50
o-Terphenyl	PHN	Ave	8625 1297334	42735 2061660	209410	434393	853642	0.200 30.0	1 50

Curve Type Legend:
Ave = Average ISTD
LinF = Linear ISTD forced zero

134781

N

2761

LVL 3	LVL 4	LVL 5
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22003.D
Lab Smp Id: IC-1512358
Inj Date : 22-FEB-2013 12:13
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2828471	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1686180	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2729489	40.0000	
$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	8625	0.20000	0.20
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2794246	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2924062	40.0000	
2 Naphthalene	128	6.201	6.201	(1.003)	15953	0.20000	0.21
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	9948	0.20000	0.21
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	8626	0.20000	0.19
5 Acenaphthylene	152	7.723	7.723	(0.983)	14047	0.20000	0.19
7 Acenaphthene	154	7.882	7.882	(1.003)	9613	0.20000	0.21
8 Fluorene	166	8.322	8.322	(1.059)	10293	0.20000	0.19
10 Phenanthrene	178	9.127	9.127	(1.001)	16602	0.20000	0.21
11 Anthracene	178	9.168	9.168	(1.006)	15132	0.20000	0.20
12 Carbazole	167	9.303	9.303	(1.021)	13633	0.20000	0.20
14 Fluoranthene	202	10.114	10.114	(1.110)	16725	0.20000	0.21
15 Pyrene	202	10.302	10.302	(0.899)	16387	0.20000	0.19
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	22435	0.20000	0.27
18 Chrysene	228	11.477	11.477	(1.002)	16460	0.20000	0.21
19 Benzo(b)fluoranthene	252	12.764	12.764	(0.957)	14372	0.20000	0.19
20 Benzo(k)fluoranthene	252	12.799	12.799	(0.960)	15732	0.20000	0.20
21 Benzo(a)pyrene	252	13.222	13.222	(0.992)	13740	0.20000	0.18
23 Indeno(1,2,3-cd)pyrene	276	14.932	14.932	(1.120)	14796	0.20000	0.19(H)
24 Dibenzo(a,h)anthracene	278	14.967	14.967	(1.122)	13824	0.20000	0.19(MH)
25 Benzo(g,h,i)perylene	276	15.379	15.379	(1.153)	14886	0.20000	0.20(MH)

QC Flag Legend

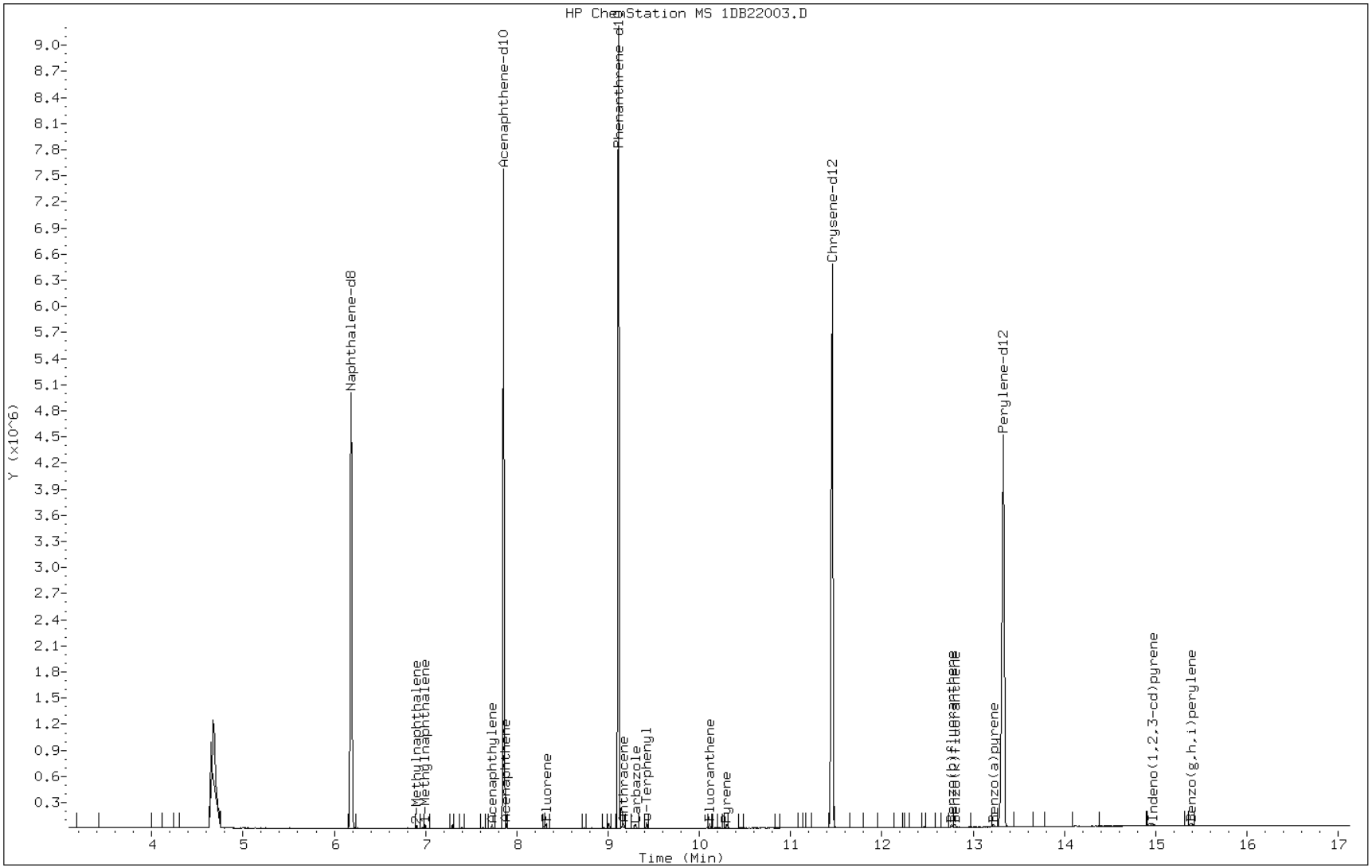
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22003.D

Date: 22-FEB-2013 12:13

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512358 Operator: SCC



Manual Integration Report

Data File: 1DB22003.D
Inj. Date and Time: 22-FEB-2013 12:13
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/22/2013

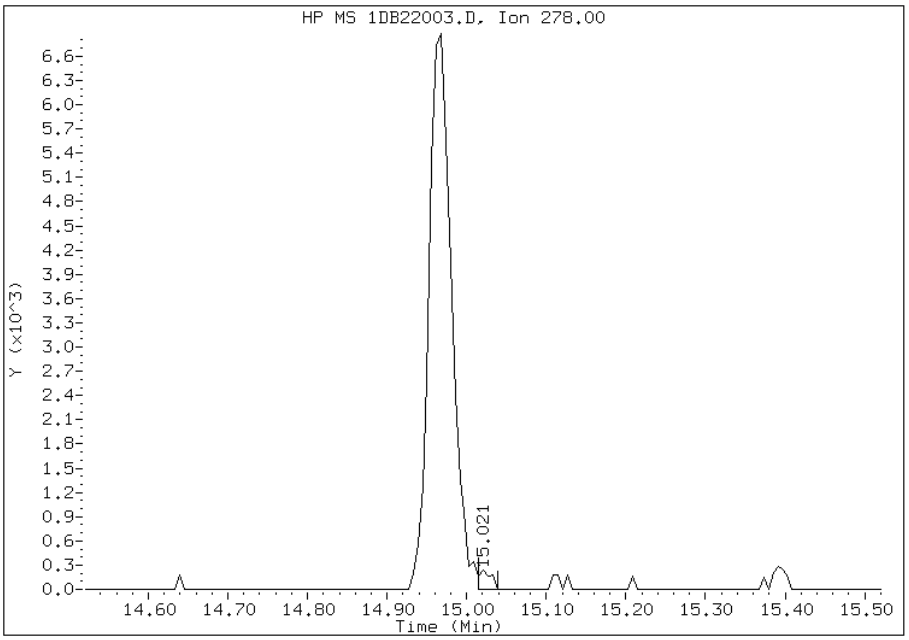
Processing Integration Results

RT: 15.02

Response: 262

Amount: 0

Conc: 0



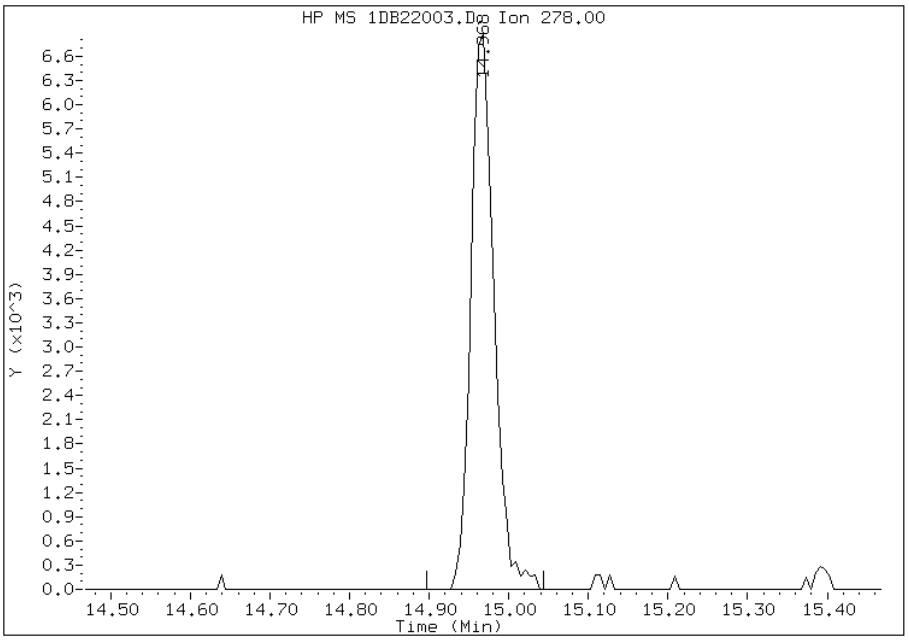
Manual Integration Results

RT: 14.97

Response: 13824

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DB22003.D
Inj. Date and Time: 22-FEB-2013 12:13
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/22/2013

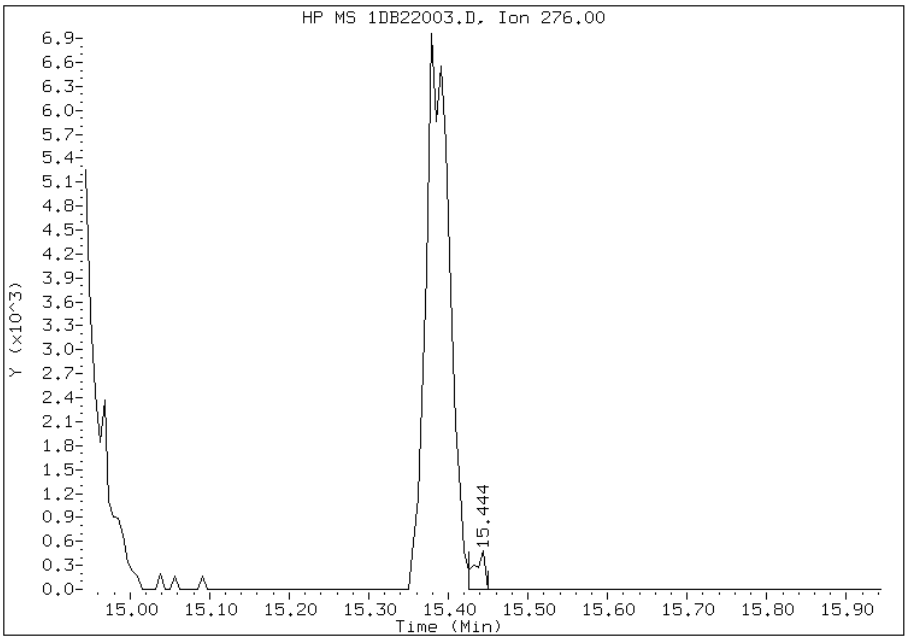
Processing Integration Results

RT: 15.44

Response: 456

Amount: 0

Conc: 0



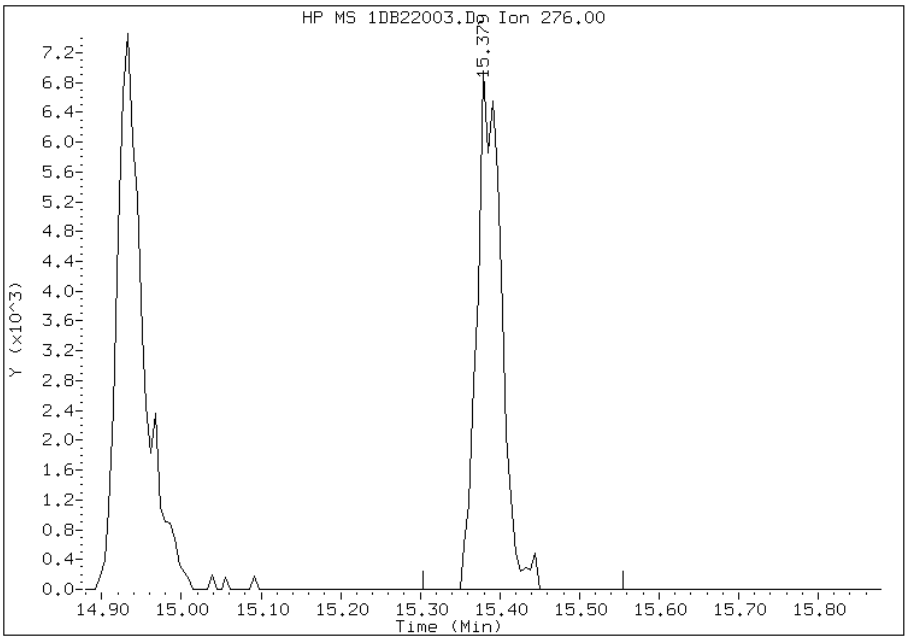
Manual Integration Results

RT: 15.38

Response: 14886

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:57
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22004.D
Lab Smp Id: IC-1512359
Inj Date : 22-FEB-2013 12:35
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:13 Cal File: 1DB22003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.186	6.186	(1.000)	2823768	40.0000	
* 6 Acenaphthene-d10	164	7.854	7.854	(1.000)	1701879	40.0000	
* 9 Phenanthrene-d10	188	9.112	9.112	(1.000)	2790130	40.0000	
$ 13 o-Terphenyl	230	9.423	9.423	(1.034)	42735	1.00000	0.99
* 17 Chrysene-d12	240	11.456	11.456	(1.000)	2760384	40.0000	
* 22 Perylene-d12	264	13.330	13.330	(1.000)	2890207	40.0000	
2 Naphthalene	128	6.203	6.203	(1.003)	74498	1.00000	0.99
3 2-Methylnaphthalene	142	6.902	6.902	(1.116)	47384	1.00000	0.98
4 1-Methylnaphthalene	142	6.997	6.997	(1.131)	46812	1.00000	1.0
5 Acenaphthylene	152	7.725	7.725	(0.984)	75049	1.00000	1.0
7 Acenaphthene	154	7.878	7.878	(1.003)	46142	1.00000	1.0
8 Fluorene	166	8.318	8.318	(1.059)	54168	1.00000	1.0
10 Phenanthrene	178	9.129	9.129	(1.002)	78922	1.00000	1.00
11 Anthracene	178	9.170	9.170	(1.006)	76501	1.00000	0.96
12 Carbazole	167	9.306	9.306	(1.021)	67837	1.00000	0.96
14 Fluoranthene	202	10.111	10.111	(1.110)	78399	1.00000	0.95
15 Pyrene	202	10.299	10.299	(0.899)	86802	1.00000	1.0
16 Benzo(a)anthracene	228	11.432	11.432	(0.998)	80159	1.00000	0.98
18 Chrysene	228	11.474	11.474	(1.002)	79936	1.00000	1.0
19 Benzo(b)fluoranthene	252	12.760	12.760	(0.957)	74603	1.00000	1.0
20 Benzo(k)fluoranthene	252	12.796	12.796	(0.960)	75578	1.00000	0.97
21 Benzo(a)pyrene	252	13.219	13.219	(0.992)	70635	1.00000	0.96
23 Indeno(1,2,3-cd)pyrene	276	14.934	14.934	(1.120)	73004	1.00000	0.93(M)
24 Dibenzo(a,h)anthracene	278	14.964	14.964	(1.123)	71027	1.00000	0.98(H)
25 Benzo(g,h,i)perylene	276	15.381	15.381	(1.154)	73360	1.00000	0.98(H)

QC Flag Legend

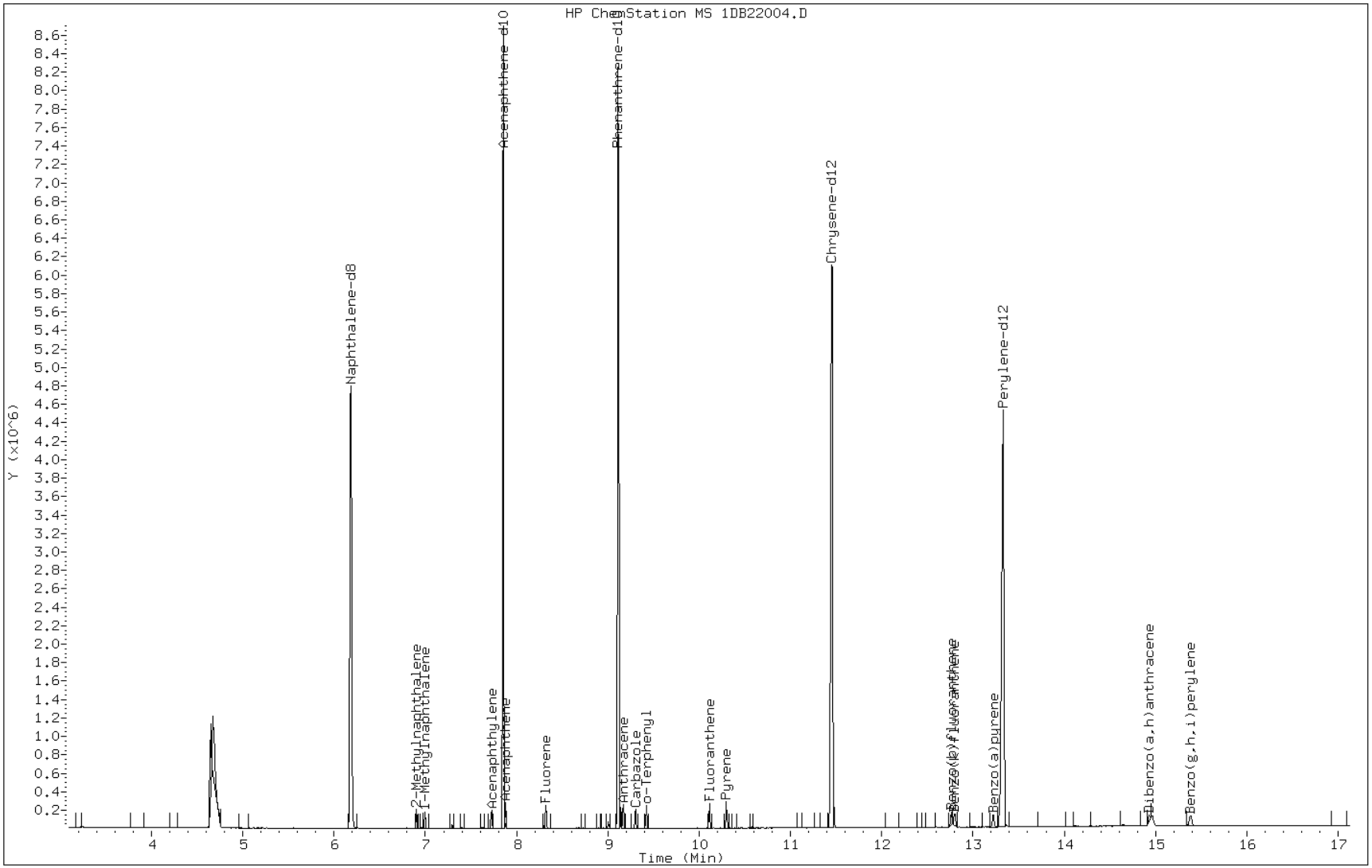
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22004.D

Date: 22-FEB-2013 12:35

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512359 Operator: SCC



Manual Integration Report

Data File: 1DB22004.D
Inj. Date and Time: 22-FEB-2013 12:35
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

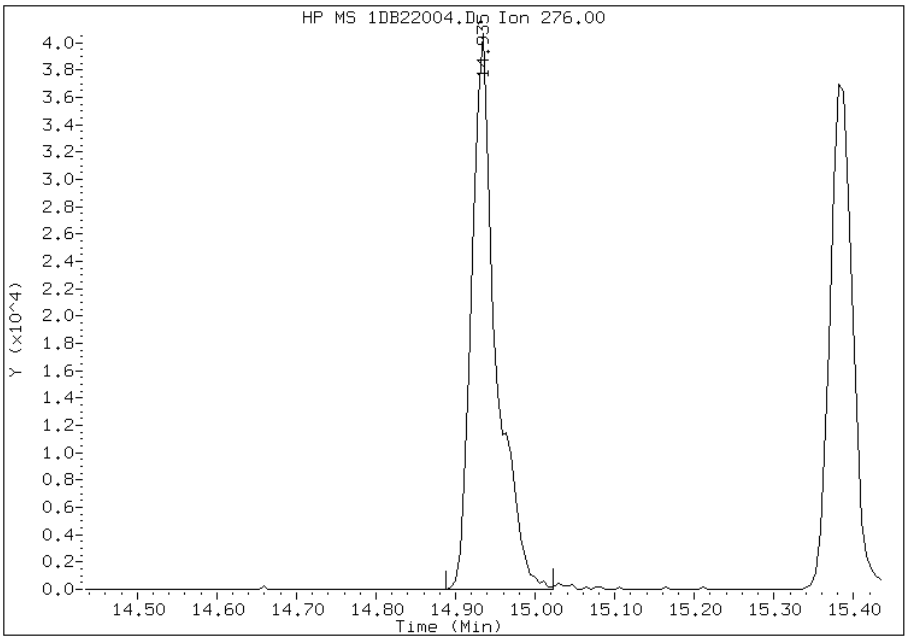
Processing Integration Results

RT: 14.93

Response: 86267

Amount: 1

Conc: 1



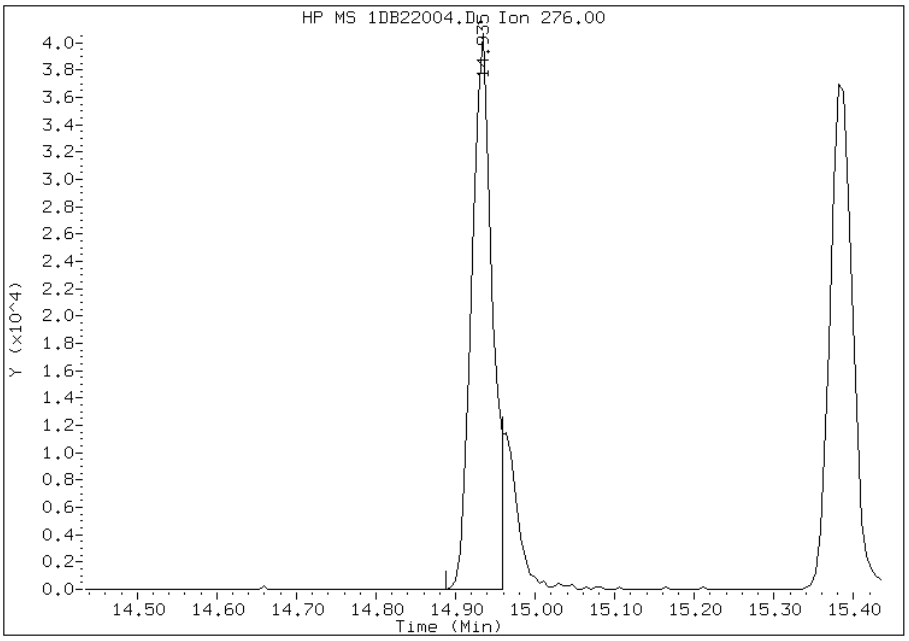
Manual Integration Results

RT: 14.93

Response: 73004

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:58
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22005.D
Lab Smp Id: IC-1512360
Inj Date : 22-FEB-2013 12:58
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:35 Cal File: 1DB22004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2789095	40.0000	
* 6 Acenaphthene-d10	164	7.853	7.853	(1.000)	1672170	40.0000	
* 9 Phenanthrene-d10	188	9.116	9.116	(1.000)	2700824	40.0000	
$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	209410	5.00000	5.0
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2740282	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2860502	40.0000	
2 Naphthalene	128	6.202	6.202	(1.003)	371017	5.00000	5.0
3 2-Methylnaphthalene	142	6.901	6.901	(1.116)	236964	5.00000	5.0
4 1-Methylnaphthalene	142	6.995	6.995	(1.131)	225226	5.00000	5.1
5 Acenaphthylene	152	7.723	7.723	(0.984)	364710	5.00000	4.9
7 Acenaphthene	154	7.876	7.876	(1.003)	218994	5.00000	4.9
8 Fluorene	166	8.323	8.323	(1.060)	260823	5.00000	5.0
10 Phenanthrene	178	9.134	9.134	(1.002)	386527	5.00000	5.0
11 Anthracene	178	9.169	9.169	(1.006)	389851	5.00000	5.1
12 Carbazole	167	9.304	9.304	(1.021)	348596	5.00000	5.1
14 Fluoranthene	202	10.115	10.115	(1.110)	404310	5.00000	5.0
15 Pyrene	202	10.303	10.303	(0.899)	429030	5.00000	5.0
16 Benzo(a)anthracene	228	11.437	11.437	(0.998)	377597	5.00000	4.6
18 Chrysene	228	11.478	11.478	(1.002)	382861	5.00000	4.9
19 Benzo(b)fluoranthene	252	12.765	12.765	(0.957)	359912	5.00000	4.9
20 Benzo(k)fluoranthene	252	12.806	12.806	(0.960)	395166	5.00000	5.1
21 Benzo(a)pyrene	252	13.229	13.229	(0.992)	369863	5.00000	5.1
23 Indeno(1,2,3-cd)pyrene	276	14.938	14.938	(1.120)	372428	5.00000	4.8(M)
24 Dibenzo(a,h)anthracene	278	14.974	14.974	(1.123)	360565	5.00000	5.0(H)
25 Benzo(g,h,i)perylene	276	15.391	15.391	(1.154)	369321	5.00000	5.0(H)

QC Flag Legend

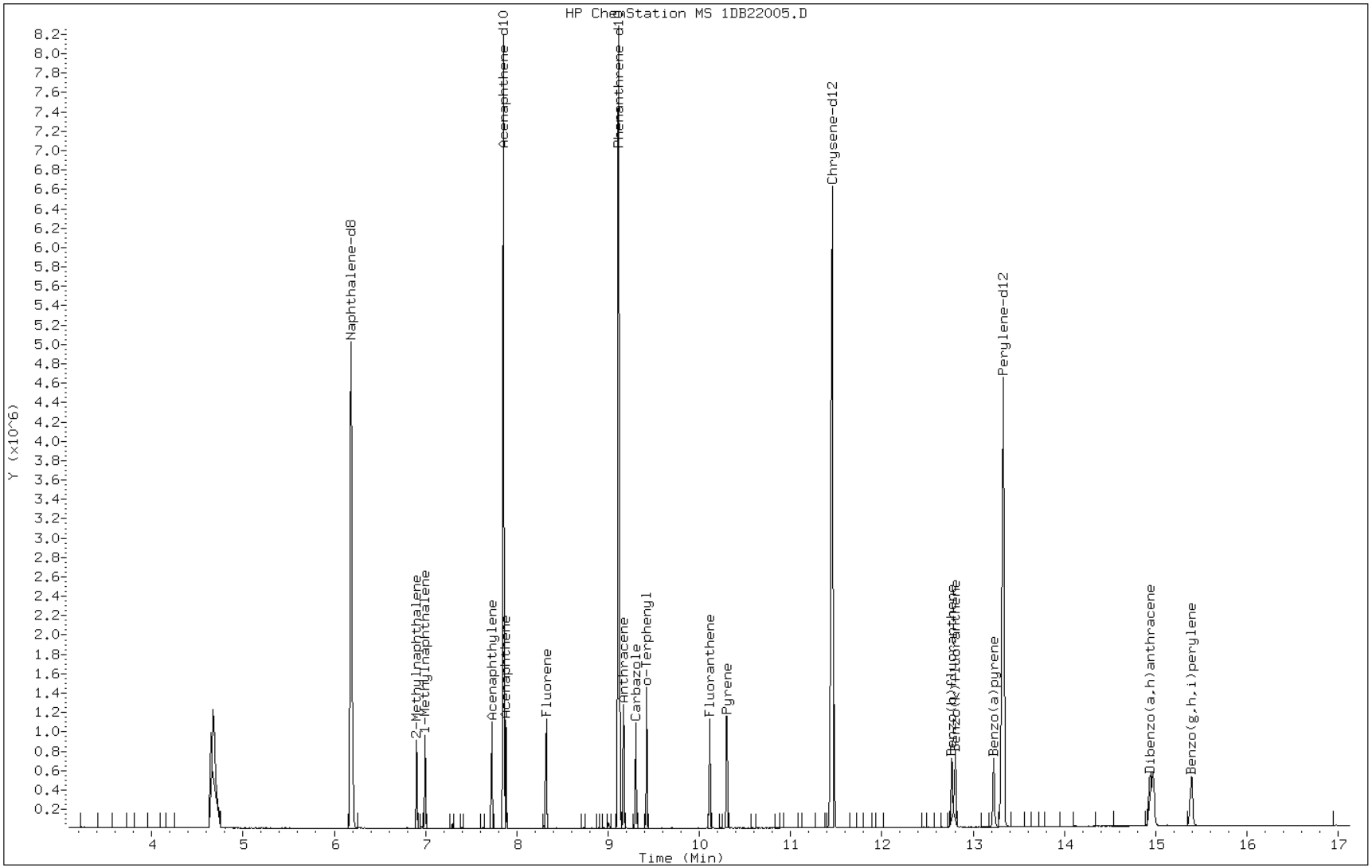
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22005.D

Date: 22-FEB-2013 12:58

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512360 Operator: SCC



Manual Integration Report

Data File: 1DB22005.D
Inj. Date and Time: 22-FEB-2013 12:58
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

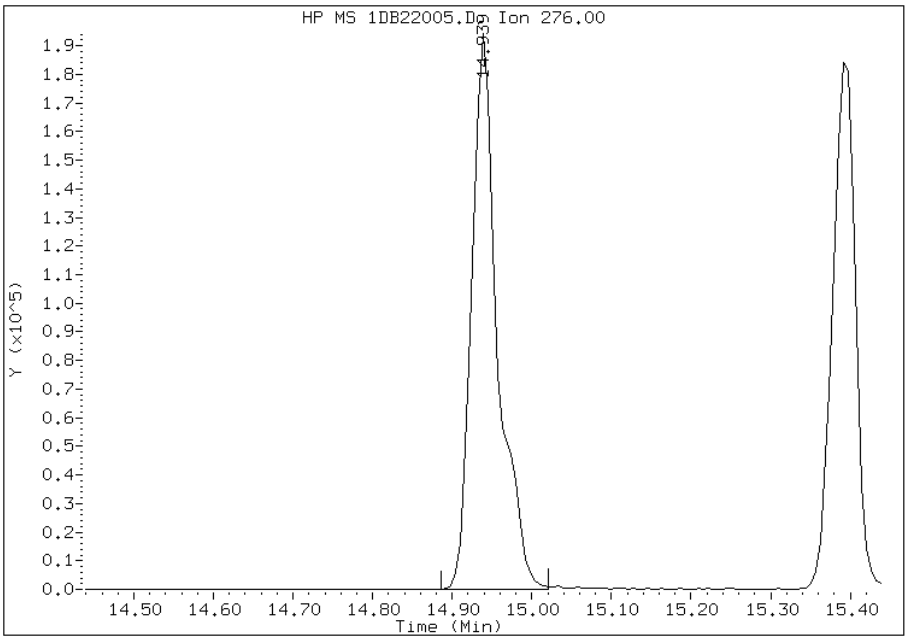
Processing Integration Results

RT: 14.94

Response: 437022

Amount: 5

Conc: 5



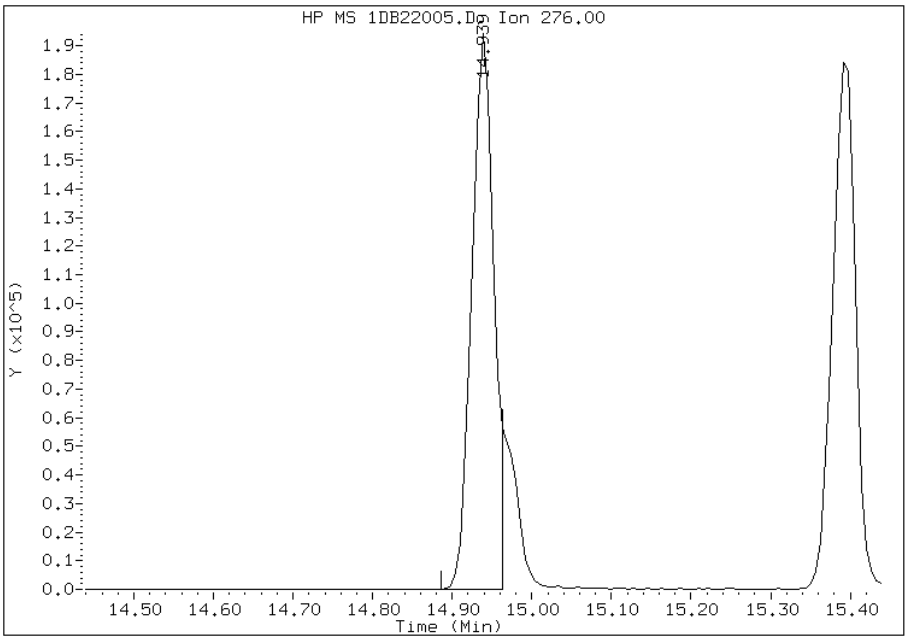
Manual Integration Results

RT: 14.94

Response: 372428

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:58
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22006.D
Lab Smp Id: IC-1512361
Inj Date : 22-FEB-2013 13:21
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512361
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:58 Cal File: 1DB22005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2848559	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1695869	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2747931	40.0000	
$ 13 o-Terphenyl	230	9.420	9.420	(1.034)	434393	10.0000	10
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2770572	40.0000	
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2917915	40.0000	
2 Naphthalene	128	6.207	6.207	(1.004)	777491	10.0000	10
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	498648	10.0000	10
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	463905	10.0000	10
5 Acenaphthylene	152	7.728	7.728	(0.984)	773248	10.0000	10
7 Acenaphthene	154	7.881	7.881	(1.003)	469400	10.0000	10
8 Fluorene	166	8.322	8.322	(1.059)	540812	10.0000	10
10 Phenanthrene	178	9.132	9.132	(1.002)	798454	10.0000	10
11 Anthracene	178	9.174	9.174	(1.006)	806411	10.0000	10
12 Carbazole	167	9.309	9.309	(1.021)	722383	10.0000	10
14 Fluoranthene	202	10.114	10.114	(1.110)	838075	10.0000	10
15 Pyrene	202	10.302	10.302	(0.899)	897242	10.0000	10
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	778182	10.0000	9.5
18 Chrysene	228	11.477	11.477	(1.002)	799570	10.0000	10
19 Benzo(b)fluoranthene	252	12.769	12.769	(0.958)	772745	10.0000	10
20 Benzo(k)fluoranthene	252	12.811	12.811	(0.961)	817887	10.0000	10
21 Benzo(a)pyrene	252	13.228	13.228	(0.992)	768774	10.0000	10
23 Indeno(1,2,3-cd)pyrene	276	14.943	14.943	(1.121)	814504	10.0000	10(M)
24 Dibenzo(a,h)anthracene	278	14.979	14.979	(1.123)	750999	10.0000	10(H)
25 Benzo(g,h,i)perylene	276	15.407	15.407	(1.156)	773773	10.0000	10(H)

QC Flag Legend

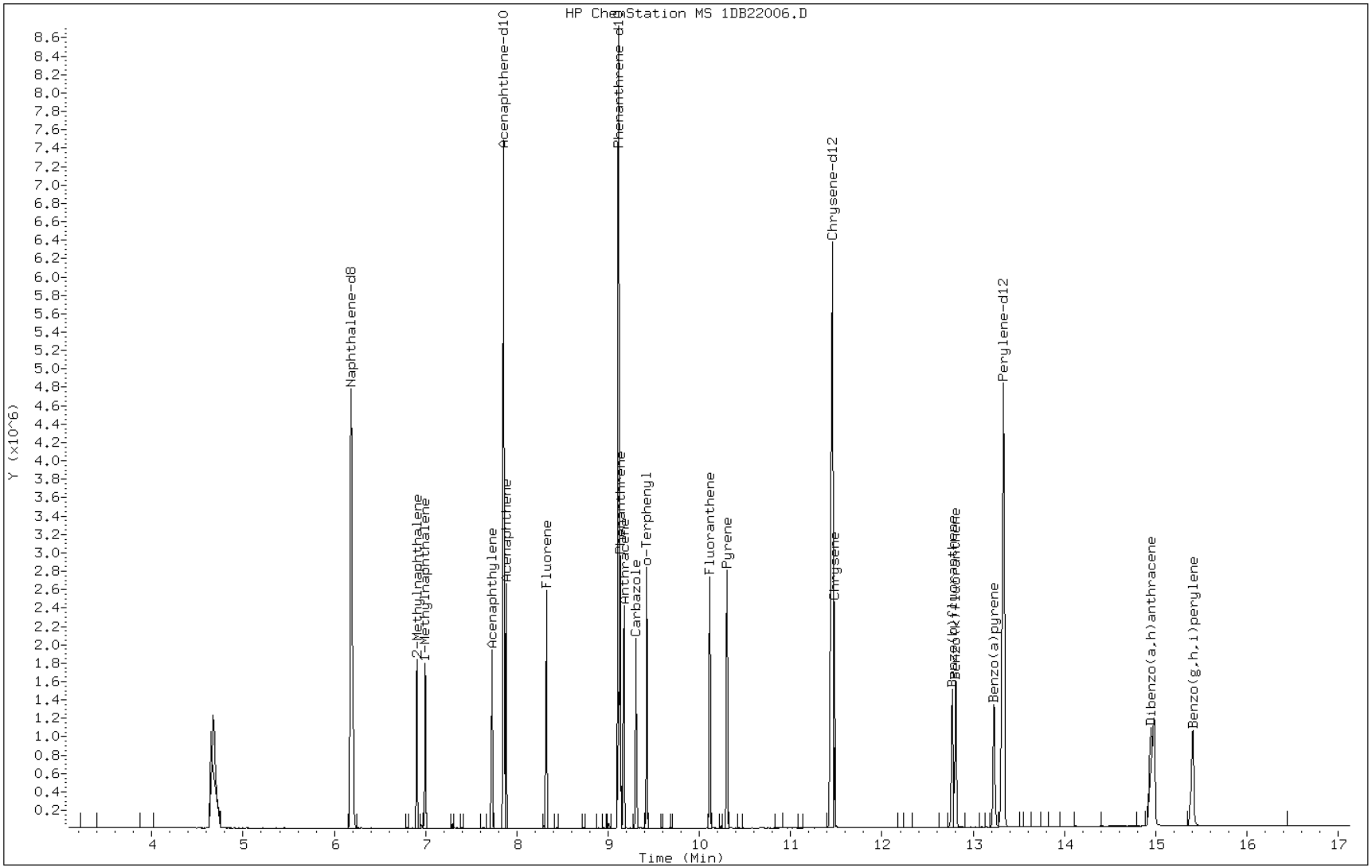
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22006.D

Date: 22-FEB-2013 13:21

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512361 Operator: SCC



Manual Integration Report

Data File: 1DB22006.D
Inj. Date and Time: 22-FEB-2013 13:21
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

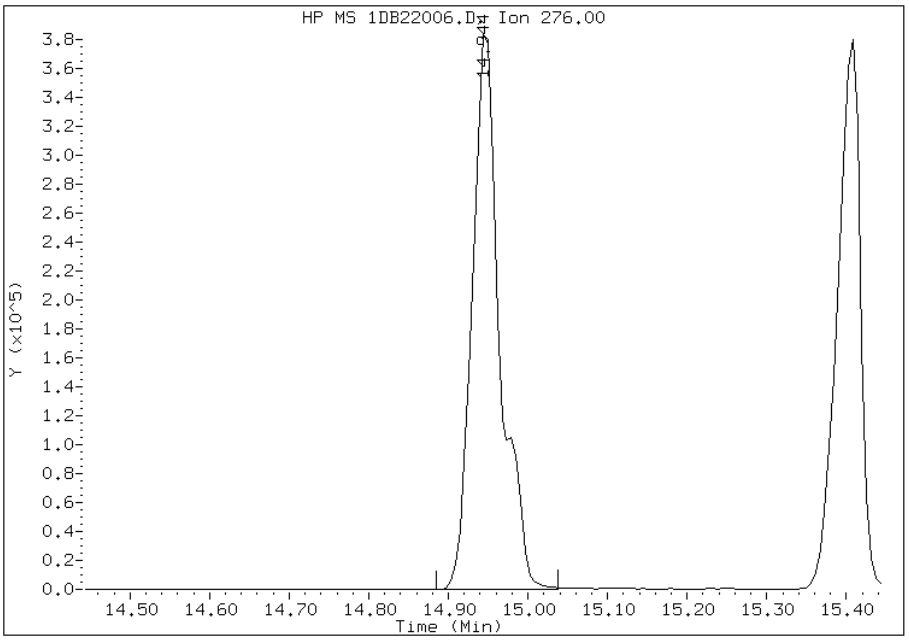
Processing Integration Results

RT: 14.94

Response: 923395

Amount: 11

Conc: 11



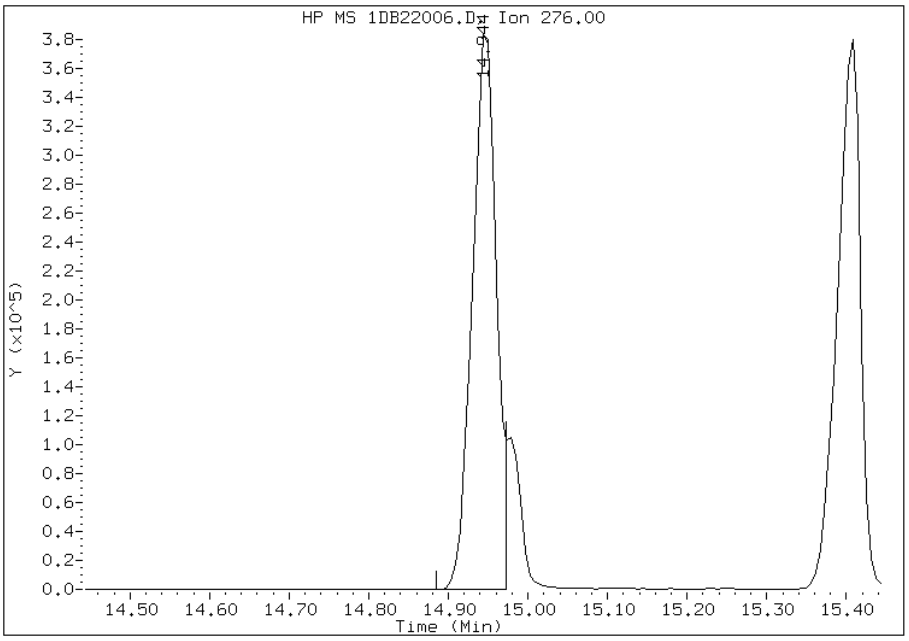
Manual Integration Results

RT: 14.94

Response: 814504

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:59
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22007.D
Lab Smp Id: ICIS-1512372
Inj Date : 22-FEB-2013 13:43
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:21 Cal File: 1DB22006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

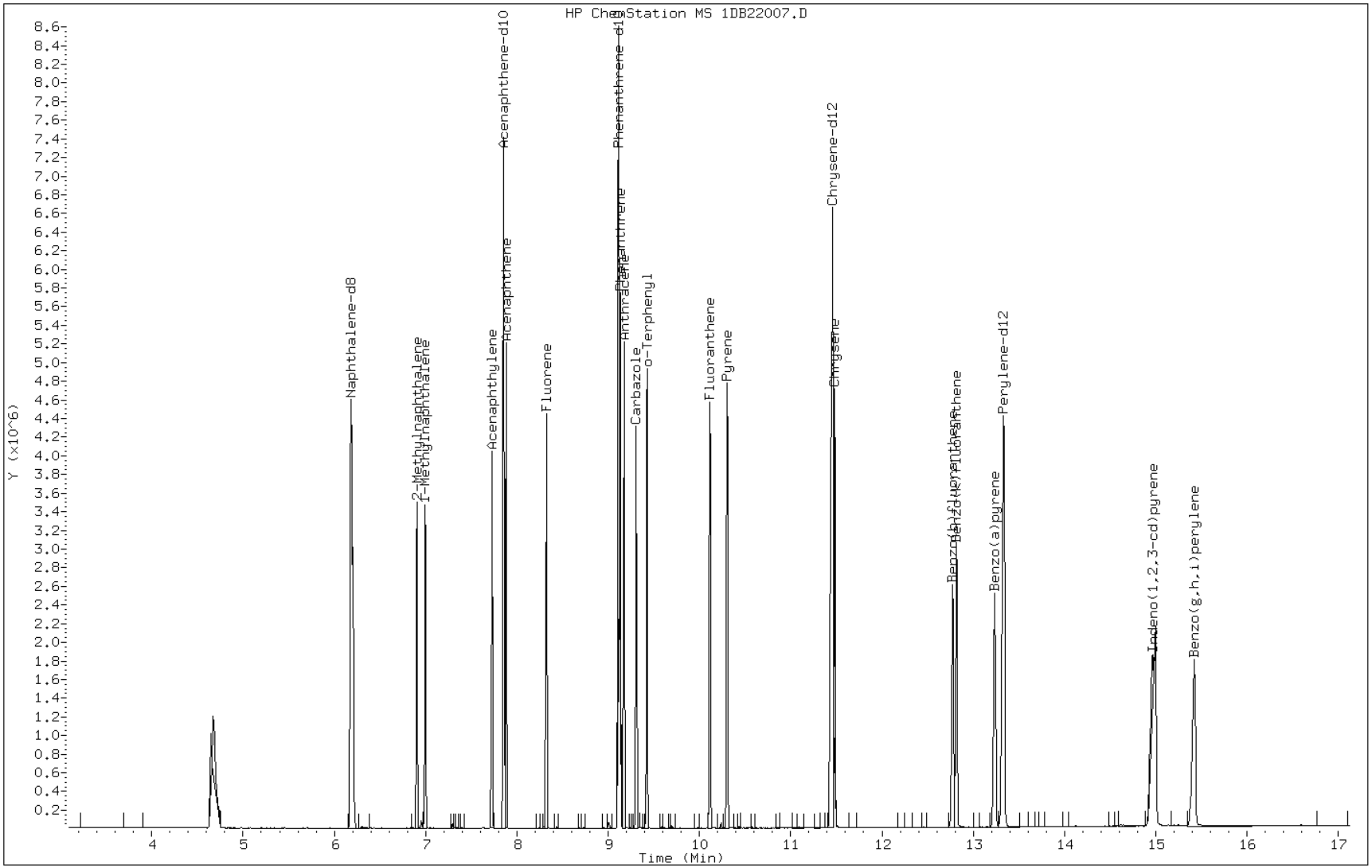
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2851402	40.0000	
* 6 Acenaphthene-d10	164	7.857	7.857	(1.000)	1685266	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2758746	40.0000	
$ 13 o-Terphenyl	230	9.426	9.426	(1.034)	853642	20.0000	20
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2741766	40.0000	
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2903096	40.0000	
2 Naphthalene	128	6.206	6.206	(1.004)	1508569	20.0000	20
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	965225	20.0000	20
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	911252	20.0000	20
5 Acenaphthylene	152	7.728	7.728	(0.984)	1512937	20.0000	20
7 Acenaphthene	154	7.881	7.881	(1.003)	889006	20.0000	20
8 Fluorene	166	8.321	8.321	(1.059)	1060484	20.0000	20
10 Phenanthrene	178	9.132	9.132	(1.002)	1536701	20.0000	20
11 Anthracene	178	9.173	9.173	(1.006)	1580088	20.0000	20
12 Carbazole	167	9.309	9.309	(1.021)	1404089	20.0000	20
14 Fluoranthene	202	10.114	10.114	(1.110)	1637186	20.0000	20
15 Pyrene	202	10.302	10.302	(0.899)	1722041	20.0000	20
16 Benzo(a)anthracene	228	11.435	11.435	(0.998)	1510209	20.0000	19
18 Chrysene	228	11.482	11.482	(1.002)	1531008	20.0000	20
19 Benzo(b)fluoranthene	252	12.775	12.775	(0.958)	1490545	20.0000	20
20 Benzo(k)fluoranthene	252	12.816	12.816	(0.961)	1582576	20.0000	20
21 Benzo(a)pyrene	252	13.239	13.239	(0.993)	1511646	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	14.961	14.961	(1.122)	1658275	20.0000	21
24 Dibenzo(a,h)anthracene	278	14.996	14.996	(1.125)	1484721	20.0000	20
25 Benzo(g,h,i)perylene	276	15.425	15.425	(1.157)	1511031	20.0000	20

Data File: 1DB22007.D

Date: 22-FEB-2013 13:43

Client ID: Instrument: BSMSD.i

Sample Info: ICIS-1512372 Operator: SCC



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Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 14:06
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:43 Cal File: 1DB22007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2913003	40.0000	
* 6 Acenaphthene-d10	164	7.852	7.852	(1.000)	1720184	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2807552	40.0000	
$ 13 o-Terphenyl	230	9.427	9.427	(1.034)	1297334	30.0000	30
* 17 Chrysene-d12	240	11.460	11.460	(1.000)	2820426	40.0000	
* 22 Perylene-d12	264	13.340	13.340	(1.000)	2972128	40.0000	
2 Naphthalene	128	6.207	6.207	(1.004)	2298963	30.0000	30
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	1457082	30.0000	29
4 1-Methylnaphthalene	142	7.000	7.000	(1.132)	1381962	30.0000	30
5 Acenaphthylene	152	7.729	7.729	(0.984)	2298195	30.0000	30
7 Acenaphthene	154	7.881	7.881	(1.004)	1357997	30.0000	29
8 Fluorene	166	8.328	8.328	(1.061)	1633465	30.0000	30
10 Phenanthrene	178	9.133	9.133	(1.002)	2324547	30.0000	29
11 Anthracene	178	9.174	9.174	(1.006)	2404366	30.0000	30
12 Carbazole	167	9.309	9.309	(1.021)	2158453	30.0000	30
14 Fluoranthene	202	10.120	10.120	(1.110)	2502381	30.0000	30
15 Pyrene	202	10.308	10.308	(0.900)	2630026	30.0000	30
16 Benzo(a)anthracene	228	11.442	11.442	(0.998)	2334008	30.0000	28
18 Chrysene	228	11.489	11.489	(1.003)	2336752	30.0000	29
19 Benzo(b)fluoranthene	252	12.781	12.781	(0.958)	2331940	30.0000	30
20 Benzo(k)fluoranthene	252	12.828	12.828	(0.962)	2363523	30.0000	30
21 Benzo(a)pyrene	252	13.246	13.246	(0.993)	2336988	30.0000	31
23 Indeno(1,2,3-cd)pyrene	276	14.973	14.973	(1.122)	2546397	30.0000	32
24 Dibenzo(a,h)anthracene	278	15.008	15.008	(1.125)	2275035	30.0000	30(H)
25 Benzo(g,h,i)perylene	276	15.443	15.443	(1.158)	2336152	30.0000	30(H)

QC Flag Legend

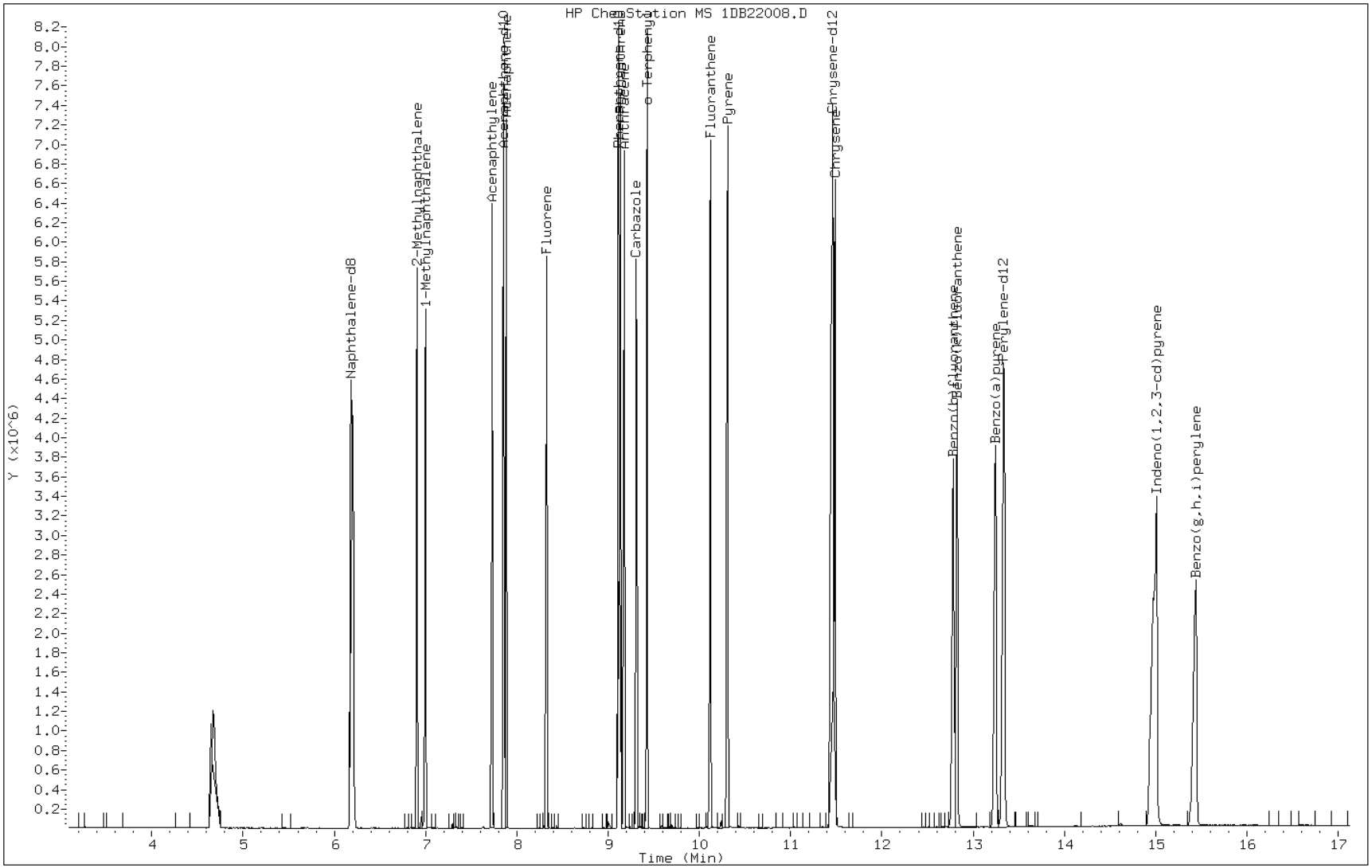
H - Operator selected an alternate compound hit.

Data File: 1DB22008.D

Date: 22-FEB-2013 14:06

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512373 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 14:28
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 14:06 Cal File: 1DB22008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.187	6.187	(1.000)	2844424	40.0000	
* 6 Acenaphthene-d10	164	7.856	7.856	(1.000)	1681359	40.0000	
* 9 Phenanthrene-d10	188	9.113	9.113	(1.000)	2759479	40.0000	
$ 13 o-Terphenyl	230	9.430	9.430	(1.035)	2061660	50.0000	48
* 17 Chrysene-d12	240	11.463	11.463	(1.000)	2783202	40.0000	
* 22 Perylene-d12	264	13.344	13.344	(1.000)	2928183	40.0000	
2 Naphthalene	128	6.205	6.205	(1.003)	3699527	50.0000	49
3 2-Methylnaphthalene	142	6.910	6.910	(1.117)	2392281	50.0000	49
4 1-Methylnaphthalene	142	6.998	6.998	(1.131)	2225072	50.0000	49
5 Acenaphthylene	152	7.732	7.732	(0.984)	3717778	50.0000	50(A)
7 Acenaphthene	154	7.885	7.885	(1.004)	2184846	50.0000	48
8 Fluorene	166	8.326	8.326	(1.060)	2631357	50.0000	50
10 Phenanthrene	178	9.137	9.137	(1.003)	3708574	50.0000	47
11 Anthracene	178	9.184	9.184	(1.008)	3900989	50.0000	50
12 Carbazole	167	9.313	9.313	(1.022)	3485796	50.0000	50
14 Fluoranthene	202	10.124	10.124	(1.111)	3974777	50.0000	49
15 Pyrene	202	10.312	10.312	(0.900)	4199944	50.0000	49
16 Benzo(a)anthracene	228	11.446	11.446	(0.998)	3791270	50.0000	46
18 Chrysene	228	11.499	11.499	(1.003)	3771462	50.0000	48
19 Benzo(b)fluoranthene	252	12.791	12.791	(0.959)	3853307	50.0000	51(A)
20 Benzo(k)fluoranthene	252	12.838	12.838	(0.962)	3832862	50.0000	48
21 Benzo(a)pyrene	252	13.261	13.261	(0.994)	3794269	50.0000	51(A)
23 Indeno(1,2,3-cd)pyrene	276	14.995	14.995	(1.124)	4194422	50.0000	53(AM)
24 Dibenzo(a,h)anthracene	278	15.030	15.030	(1.126)	3730665	50.0000	51(AH)
25 Benzo(g,h,i)perylene	276	15.465	15.465	(1.159)	3809441	50.0000	50(AH)

QC Flag Legend

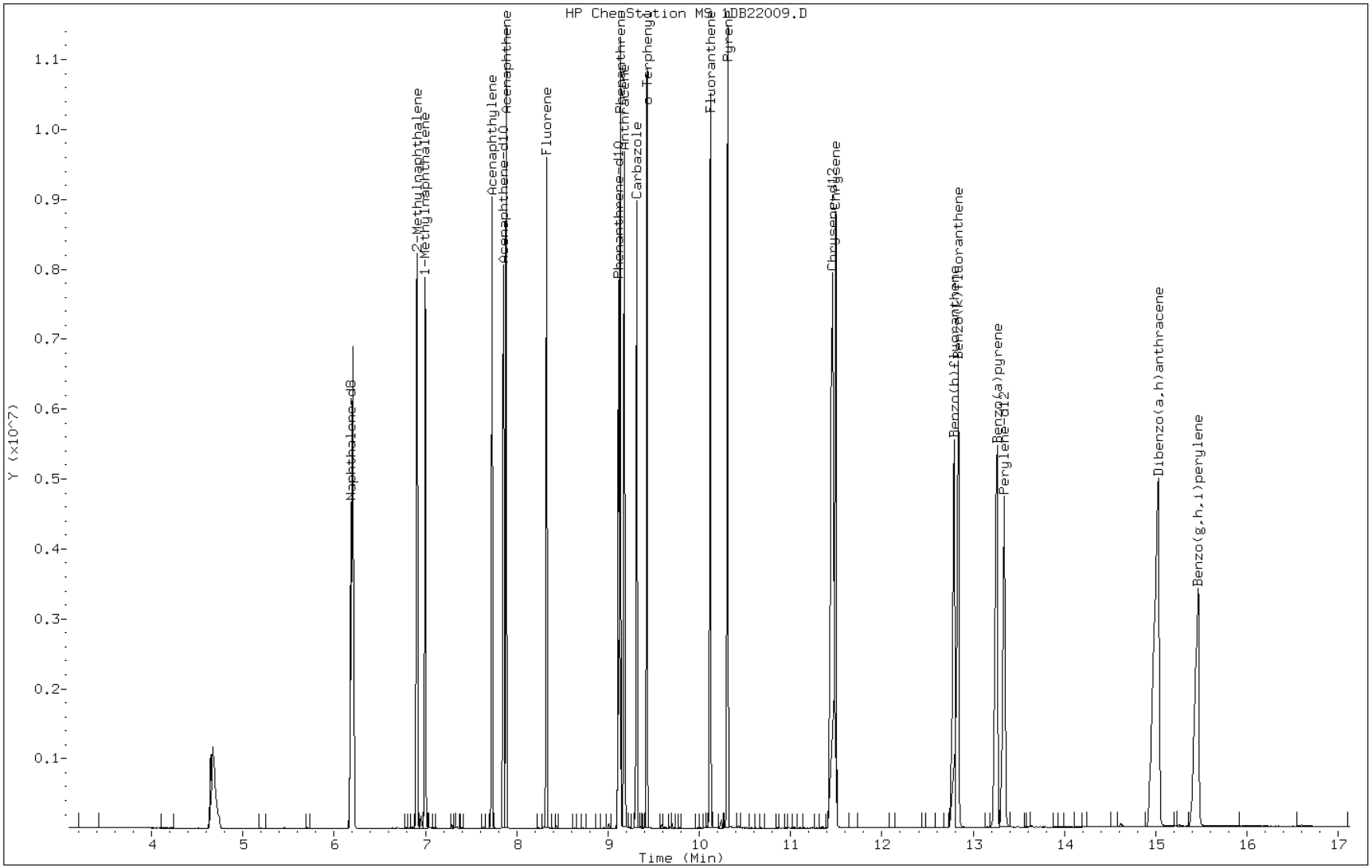
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22009.D

Date: 22-FEB-2013 14:28

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512374 Operator: SCC



Manual Integration Report

Data File: 1DB22009.D
Inj. Date and Time: 22-FEB-2013 14:28
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

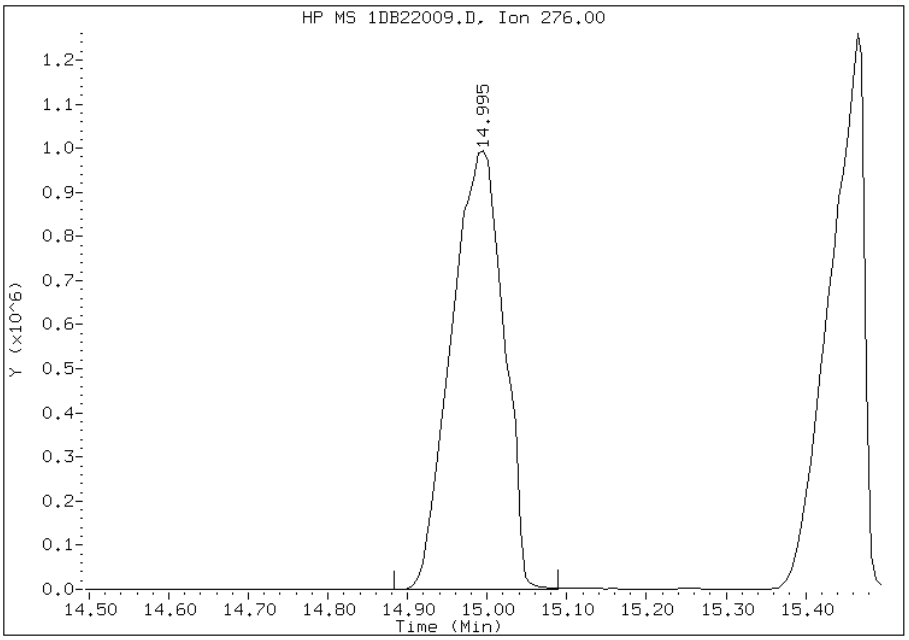
Processing Integration Results

RT: 15.00

Response: 4559640

Amount: 57

Conc: 57



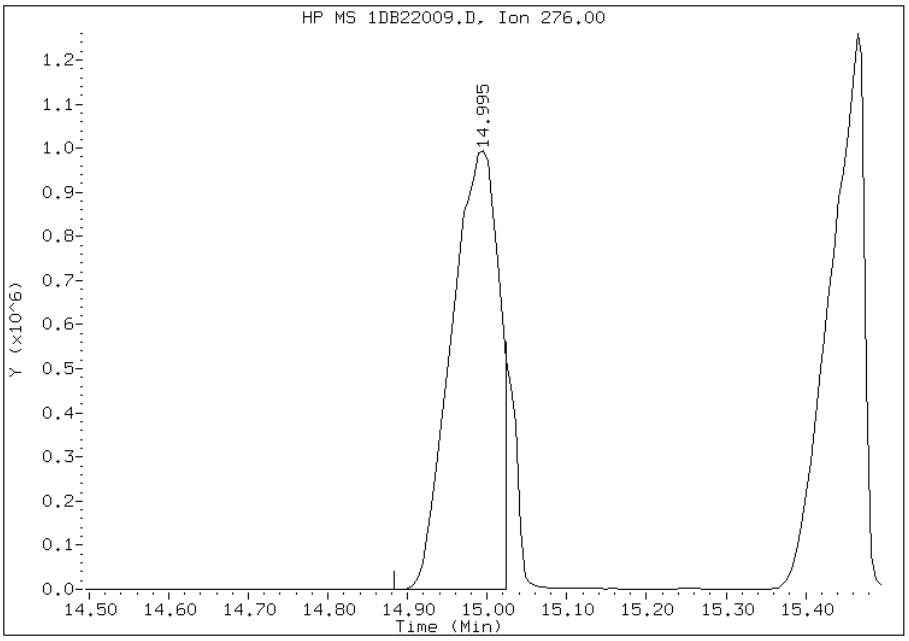
Manual Integration Results

RT: 15.00

Response: 4194422

Amount: 53

Conc: 53



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 15:00
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Lab Sample ID: ICV 660-134776/10 Calibration Date: 02/22/2013 14:06

Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 13:48

Lab File ID: 1CB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	0.9304	0.0000	17900	20000	-10.7	35.0
2-Methylnaphthalene	Ave	0.6946	0.6168	0.0000	17800	20000	-11.2	35.0
1-Methylnaphthalene	Ave	0.6326	0.5884	0.0000	18600	20000	-7.0	35.0
Acenaphthylene	Ave	1.613	1.474	0.0000	18300	20000	-8.6	35.0
Acenaphthene	Ave	1.002	0.9523	0.0000	19000	20000	-5.0	35.0
Fluorene	Ave	1.268	1.140	0.0000	18000	20000	-10.1	35.0
Phenanthrene	Ave	1.157	0.9494	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.131	0.9716	0.0000	17200	20000	-14.1	35.0
Carbazole	Ave	1.006	0.8745	0.0000	17400	20000	-13.0	35.0
Fluoranthene	Ave	1.267	1.118	0.0000	17700	20000	-11.7	35.0
Pyrene	Ave	1.075	0.8809	0.0000	16400	20000	-18.1	35.0
Benzo[a]anthracene	Ave	1.154	0.9788	0.0000	17000	20000	-15.2	35.0
Chrysene	Ave	1.155	0.9170	0.0000	15900	20000	-20.6	35.0
Benzo[b]fluoranthene	Ave	1.045	0.9777	0.0000	18700	20000	-6.5	35.0
Benzo[k]fluoranthene	Ave	1.072	0.8826	0.0000	16500	20000	-17.7	35.0
Benzo[a]pyrene	Ave	1.015	0.7948	0.0000	15700	20000	-21.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.8384	0.0000	17600	20000	-12.2	35.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8876	0.0000	19000	20000	-5.0	35.0
Benzo[g,h,i]perylene	Ave	0.999	0.8655	0.0000	17300	20000	-13.4	35.0
o-Terphenyl	Ave	0.6039	0.4936	0.0000	16300	20000	-18.3	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22010.D
Lab Smp Id: ICV-1448440
Inj Date : 22-FEB-2013 14:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1383069	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1075067	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	2141313	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	528461	16.3458	16.3457
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2766374	40.0000	
* 23 Perylene-d12	264	9.015	9.016	(1.000)	3034368	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	643385	17.8686	17.8685
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	426527	17.7587	17.7586
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	406896	18.6013	18.6013
5 Acenaphthylene	152	4.804	4.804	(0.982)	792099	18.2750	18.2749
7 Acenaphthene	154	4.910	4.910	(1.004)	511893	19.0010	19.0010
9 Fluorene	166	5.233	5.234	(1.070)	612561	17.9790	17.9790
11 Phenanthrene	178	5.863	5.863	(1.003)	1016506	16.4172	16.4171
12 Anthracene	178	5.898	5.898	(1.009)	1040221	17.1782	17.1781
13 Carbazole	167	6.004	6.004	(1.027)	936321	17.3944	17.3943
15 Fluoranthene	202	6.704	6.704	(1.147)	1196804	17.6502	17.6501
16 Pyrene	202	6.874	6.875	(0.882)	1218381	16.3888	16.3887

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1353867	16.9566	16.9566
19 Chrysene	228	7.815	7.822	(1.002)	1268380	15.8740	15.8740
20 Benzo(b)fluoranthene	252	8.656	8.657	(0.960)	1483299	18.7051	18.7050
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1339047	16.4606	16.4605
22 Benzo(a)pyrene	252	8.956	8.963	(0.993)	1205817	15.6548	15.6547
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.239	(1.135)	1271997	17.5546	17.5546(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.257	(1.137)	1346652	19.0003	19.0002
26 Benzo(g,h,i)perylene	276	10.597	10.610	(1.175)	1313135	17.3240	17.3240

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22010.D

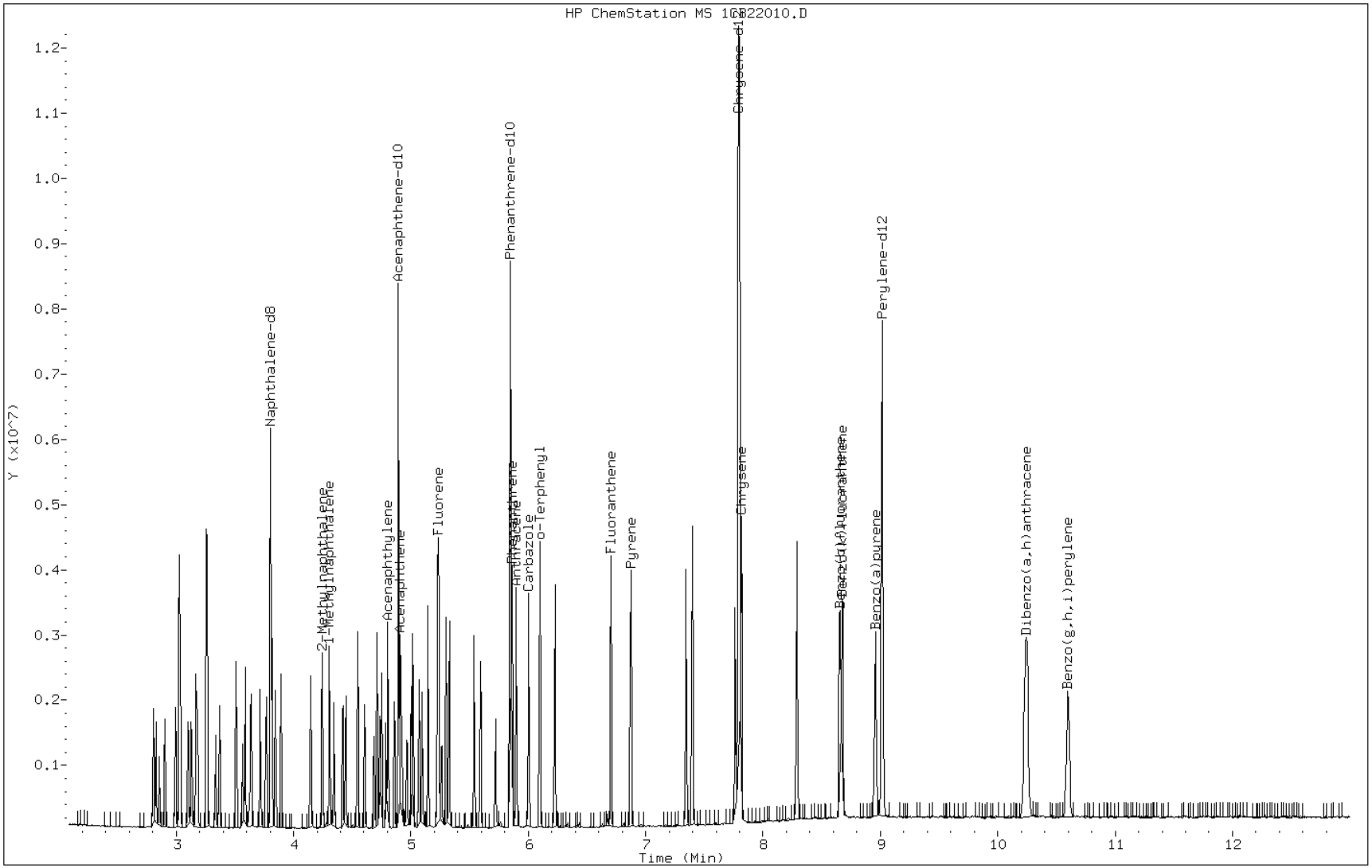
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1CB22010.D
Inj. Date and Time: 22-FEB-2013 14:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

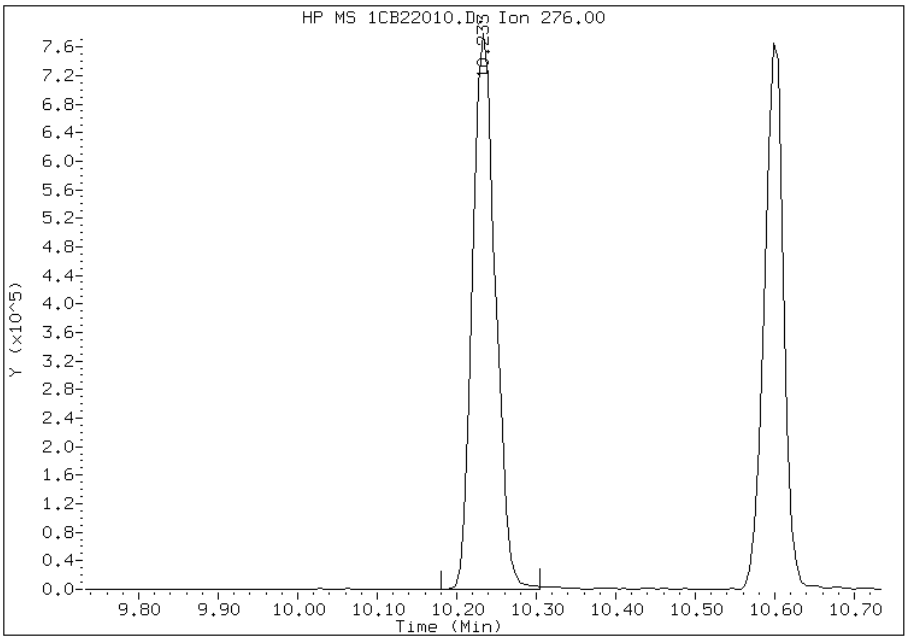
Processing Integration Results

RT: 10.23

Response: 1550656

Amount: 21

Conc: 21



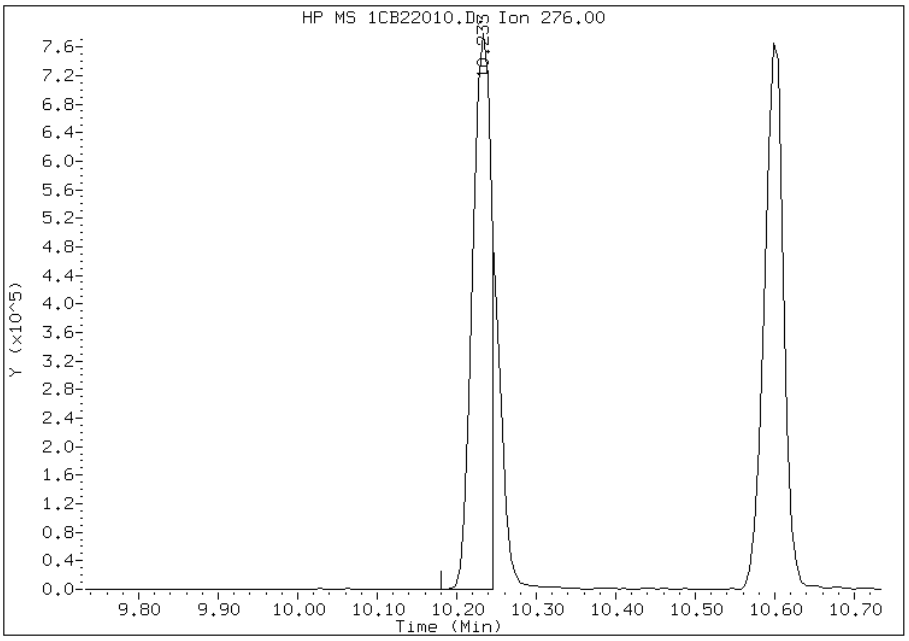
Manual Integration Results

RT: 10.23

Response: 1271997

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:21
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Lab Sample ID: CCVIS 660-135902/3 Calibration Date: 03/28/2013 11:59

Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 13:48

Lab File ID: 1CC28003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.043	0.0000	20000	20000	0.2	20.0
2-Methylnaphthalene	Ave	0.6946	0.6791	0.0000	19600	20000	-2.2	20.0
1-Methylnaphthalene	Ave	0.6326	0.6718	0.0000	21200	20000	6.2	20.0
Acenaphthylene	Ave	1.613	1.586	0.0000	19700	20000	-1.7	20.0
Acenaphthene	Ave	1.002	0.9488	0.0000	18900	20000	-5.3	20.0
Fluorene	Ave	1.268	1.258	0.0000	19900	20000	-0.7	20.0
Phenanthrene	Ave	1.157	1.102	0.0000	19100	20000	-4.7	20.0
Anthracene	Ave	1.131	1.116	0.0000	19700	20000	-1.3	20.0
Carbazole	Ave	1.006	0.9778	0.0000	19400	20000	-2.8	20.0
Fluoranthene	Ave	1.267	1.229	0.0000	19400	20000	-3.0	20.0
Pyrene	Ave	1.075	1.121	0.0000	20900	20000	4.3	20.0
Benzo[a]anthracene	Ave	1.154	1.025	0.0000	17700	20000	-11.3	20.0
Chrysene	Ave	1.155	1.082	0.0000	18700	20000	-6.3	20.0
Benzo[b]fluoranthene	Ave	1.045	1.064	0.0000	20400	20000	1.8	20.0
Benzo[k]fluoranthene	Ave	1.072	1.088	0.0000	20300	20000	1.5	20.0
Benzo[a]pyrene	Ave	1.015	1.025	0.0000	20200	20000	1.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.9407	0.0000	19700	20000	-1.5	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8825	0.0000	18900	20000	-5.5	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9391	0.0000	18800	20000	-6.0	20.0
o-Terphenyl	Ave	0.6039	0.5809	0.0000	19200	20000	-3.8	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28003.D
Lab Smp Id: CCVIS-1512372
Inj Date : 28-MAR-2013 11:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	3.722	3.722	(1.000)	797659	40.0000	(H)
* 6 Acenaphthene-d10	164	4.810	4.810	(1.000)	631634	40.0000	
* 10 Phenanthrene-d10	188	5.763	5.763	(1.000)	1190245	40.0000	(H)
$ 14 o-Terphenyl	230	6.010	6.010	(1.043)	345706	20.0000	19.2372(H)
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	1432718	40.0000	(H)
* 23 Perylene-d12	264	8.886	8.886	(1.000)	1426297	40.0000	(H)
2 Naphthalene	128	3.733	3.733	(1.003)	416161	20.0000	20.0404(H)
3 2-Methylnaphthalene	142	4.163	4.163	(1.119)	270837	20.0000	19.5523(H)
4 1-Methylnaphthalene	142	4.222	4.222	(1.134)	267925	20.0000	21.2373(H)
5 Acenaphthylene	152	4.722	4.722	(0.982)	500869	20.0000	19.6685
7 Acenaphthene	154	4.833	4.833	(1.005)	299637	20.0000	18.9305
9 Fluorene	166	5.151	5.151	(1.071)	397422	20.0000	19.8535
11 Phenanthrene	178	5.774	5.774	(1.002)	656012	20.0000	19.0609(H)
12 Anthracene	178	5.810	5.810	(1.008)	664445	20.0000	19.7403(H)
13 Carbazole	167	5.921	5.921	(1.028)	581925	20.0000	19.4488(H)
15 Fluoranthene	202	6.616	6.616	(1.148)	731155	20.0000	19.3989(H)
16 Pyrene	202	6.780	6.780	(0.880)	803113	20.0000	20.8588(H)
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	733974	20.0000	17.7498(H)
19 Chrysene	228	7.721	7.721	(1.002)	775164	20.0000	18.7318(H)
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	758720	20.0000	20.3549(H)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	775934	20.0000	20.2923(H)
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	731036	20.0000	20.1911(H)
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.045	(1.130)	670883	20.0000	19.6974(MH)
25 Dibenzo(a,h)anthracene	278	10.062	10.062	(1.132)	629352	20.0000	18.8910(H)
26 Benzo(g,h,i)perylene	276	10.398	10.398	(1.170)	669710	20.0000	18.7968(H)

QC Flag Legend

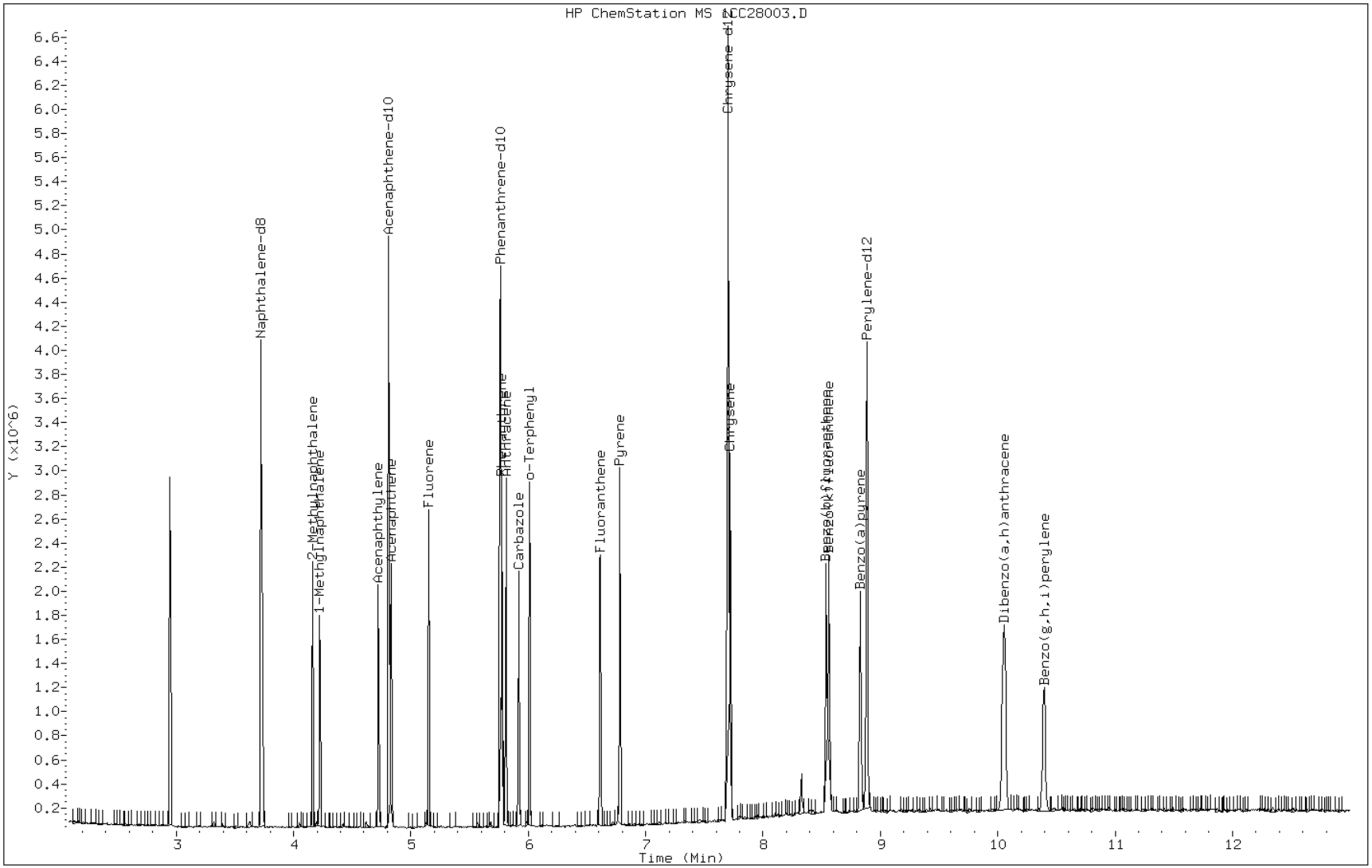
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CC28003.D

Date: 28-MAR-2013 11:59

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1CC28003.D
Inj. Date and Time: 28-MAR-2013 11:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

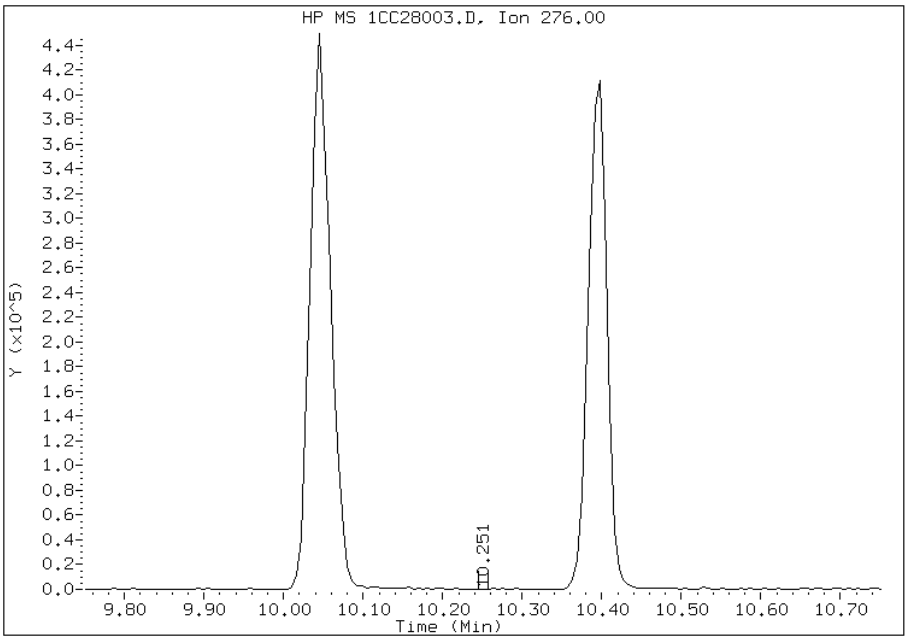
Processing Integration Results

RT: 10.25

Response: 122

Amount: 0

Conc: 0



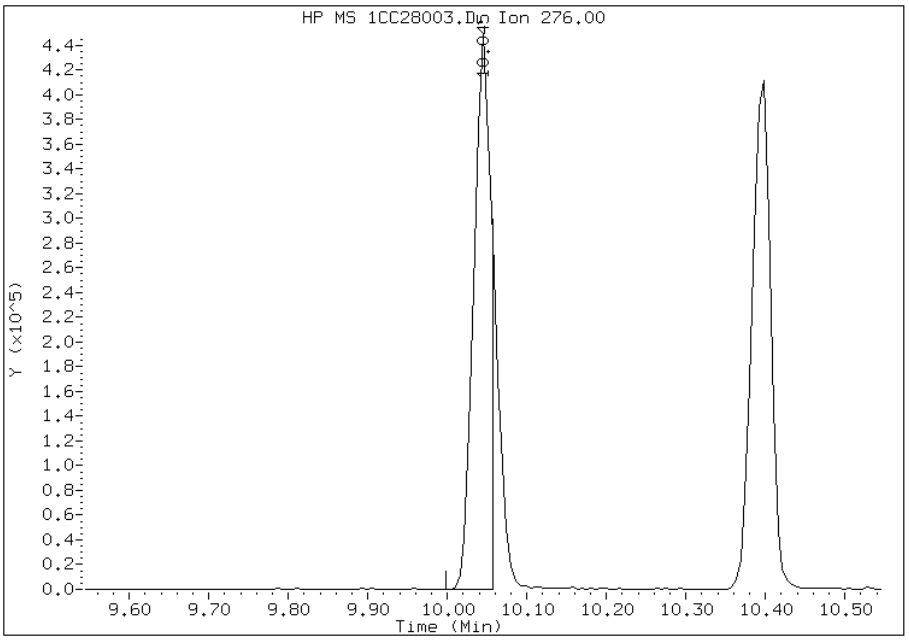
Manual Integration Results

RT: 10.05

Response: 670883

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 12:17
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Lab Sample ID: CCVIS 660-135996/3 Calibration Date: 04/01/2013 11:31

Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 13:48

Lab File ID: 1CD01003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.006	0.0000	19300	20000	-3.4	20.0
2-Methylnaphthalene	Ave	0.6946	0.7060	0.0000	20300	20000	1.6	20.0
1-Methylnaphthalene	Ave	0.6326	0.6390	0.0000	20200	20000	1.0	20.0
Acenaphthylene	Ave	1.613	1.556	0.0000	19300	20000	-3.5	20.0
Acenaphthene	Ave	1.002	0.9013	0.0000	18000	20000	-10.1	20.0
Fluorene	Ave	1.268	1.225	0.0000	19300	20000	-3.3	20.0
Phenanthrene	Ave	1.157	1.107	0.0000	19100	20000	-4.3	20.0
Anthracene	Ave	1.131	1.104	0.0000	19500	20000	-2.4	20.0
Carbazole	Ave	1.006	0.9651	0.0000	19200	20000	-4.0	20.0
Fluoranthene	Ave	1.267	1.228	0.0000	19400	20000	-3.0	20.0
Pyrene	Ave	1.075	1.092	0.0000	20300	20000	1.6	20.0
Benzo[a]anthracene	Ave	1.154	1.081	0.0000	18700	20000	-6.4	20.0
Chrysene	Ave	1.155	1.066	0.0000	18500	20000	-7.7	20.0
Benzo[b]fluoranthene	Ave	1.045	1.081	0.0000	20700	20000	3.5	20.0
Benzo[k]fluoranthene	Ave	1.072	1.031	0.0000	19200	20000	-3.9	20.0
Benzo[a]pyrene	Ave	1.015	1.019	0.0000	20100	20000	0.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.9224	0.0000	19300	20000	-3.4	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.9275	0.0000	19900	20000	-0.7	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9409	0.0000	18800	20000	-5.8	20.0
o-Terphenyl	Ave	0.6039	0.6045	0.0000	20000	20000	0.0	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01003.D
Lab Smp Id: CCVIS-1512372
Inj Date : 01-APR-2013 11:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	3.716	3.716	(1.000)	761650	40.0000	(H)
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	604806	40.0000	(H)
* 10 Phenanthrene-d10	188	5.757	5.757	(1.000)	1101759	40.0000	(H)
$ 14 o-Terphenyl	230	6.004	6.004	(1.043)	332980	20.0000	20.0172(H)
* 18 Chrysene-d12	240	7.698	7.698	(1.000)	1332309	40.0000	(H)
* 23 Perylene-d12	264	8.886	8.886	(1.000)	1345071	40.0000	(H)
2 Naphthalene	128	3.733	3.733	(1.005)	383082	20.0000	19.3196(H)
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	268864	20.0000	20.3275(H)
4 1-Methylnaphthalene	142	4.222	4.222	(1.136)	243336	20.0000	20.2001
5 Acenaphthylene	152	4.716	4.716	(0.982)	470684	20.0000	19.3030(H)
7 Acenaphthene	154	4.827	4.827	(1.005)	272549	20.0000	17.9829
9 Fluorene	166	5.145	5.145	(1.071)	370590	20.0000	19.3343(H)
11 Phenanthrene	178	5.768	5.768	(1.002)	609615	20.0000	19.1353(H)
12 Anthracene	178	5.804	5.804	(1.008)	607904	20.0000	19.5110(H)
13 Carbazole	167	5.910	5.910	(1.027)	531662	20.0000	19.1961(H)
15 Fluoranthene	202	6.604	6.604	(1.147)	676516	20.0000	19.3908(H)
16 Pyrene	202	6.774	6.774	(0.880)	727417	20.0000	20.3167(H)
17 Benzo(a)anthracene	228	7.692	7.692	(0.999)	720022	20.0000	18.7247(H)
19 Chrysene	228	7.715	7.715	(1.002)	710095	20.0000	18.4527(H)
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	727316	20.0000	20.6907(H)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	693165	20.0000	19.2224(H)
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	685360	20.0000	20.0727(H)
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.039	(1.130)	620361	20.0000	19.3140(MH)
25 Dibenzo(a,h)anthracene	278	10.056	10.056	(1.132)	623765	20.0000	19.8540(H)
26 Benzo(g,h,i)perylene	276	10.386	10.386	(1.169)	632761	20.0000	18.8322(H)

QC Flag Legend

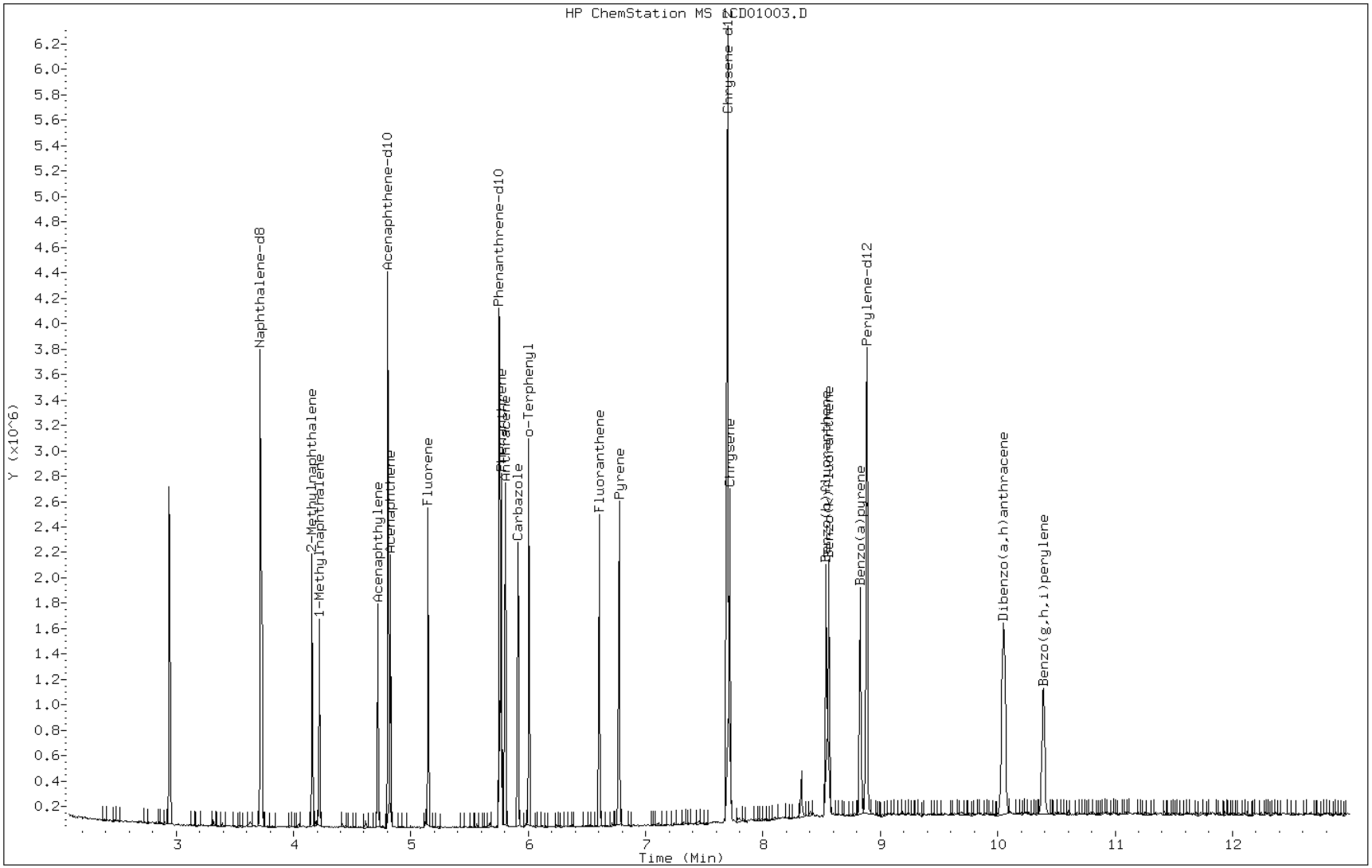
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD01003.D

Date: 01-APR-2013 11:31

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1CD01003.D
Inj. Date and Time: 01-APR-2013 11:31
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

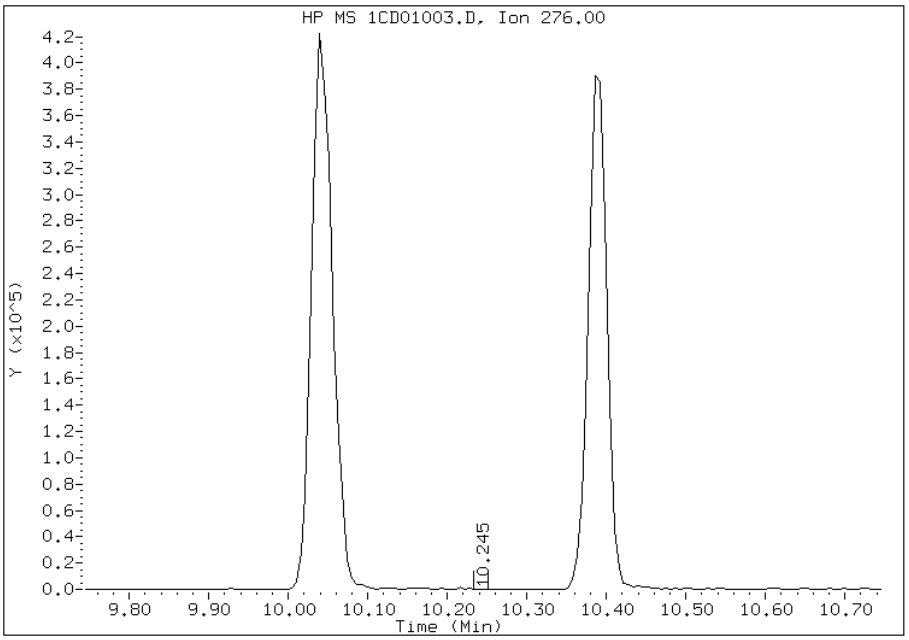
Processing Integration Results

RT: 10.25

Response: 160

Amount: 0

Conc: 0



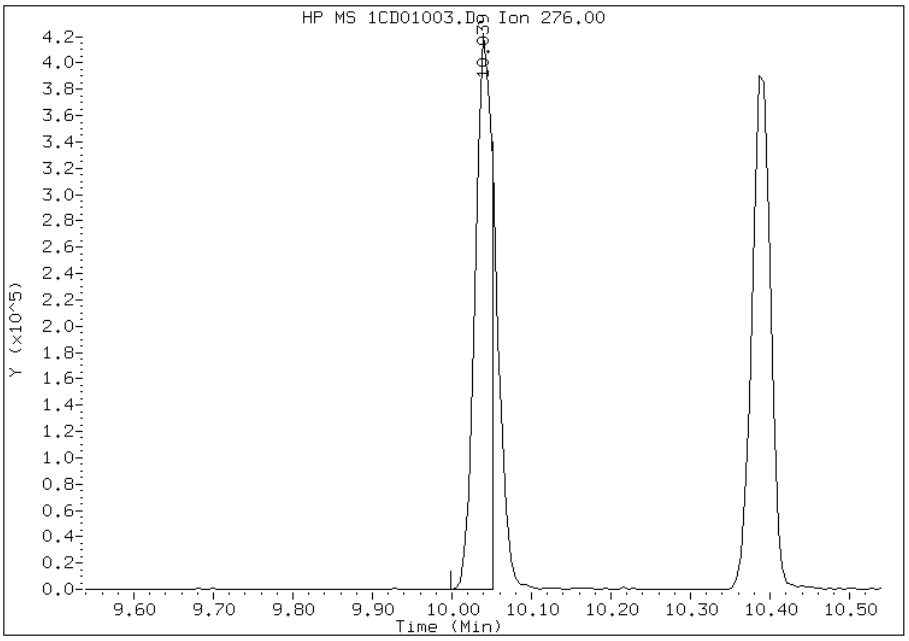
Manual Integration Results

RT: 10.04

Response: 620361

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 11:49
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

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

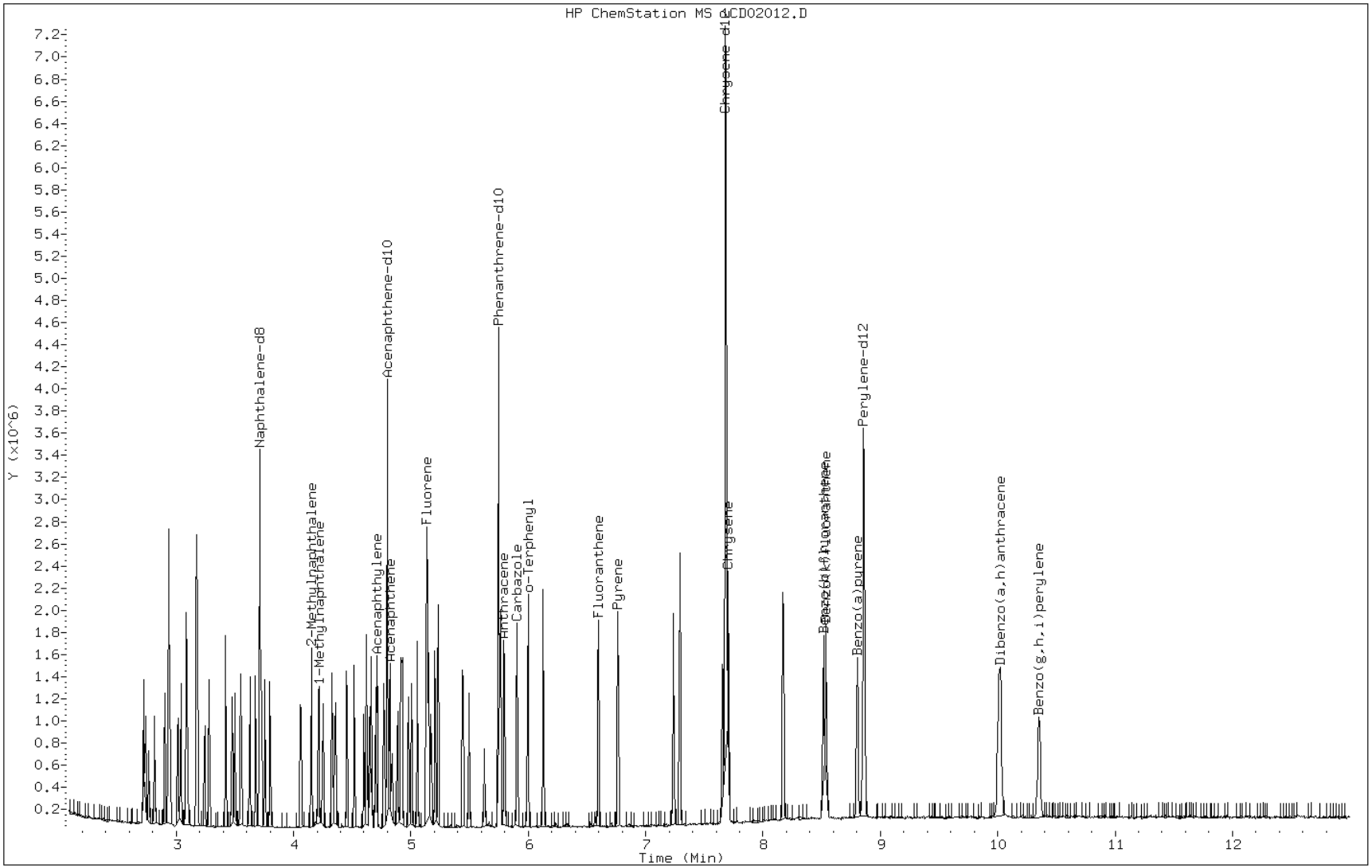
Date: 02-APR-2013 15:34

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

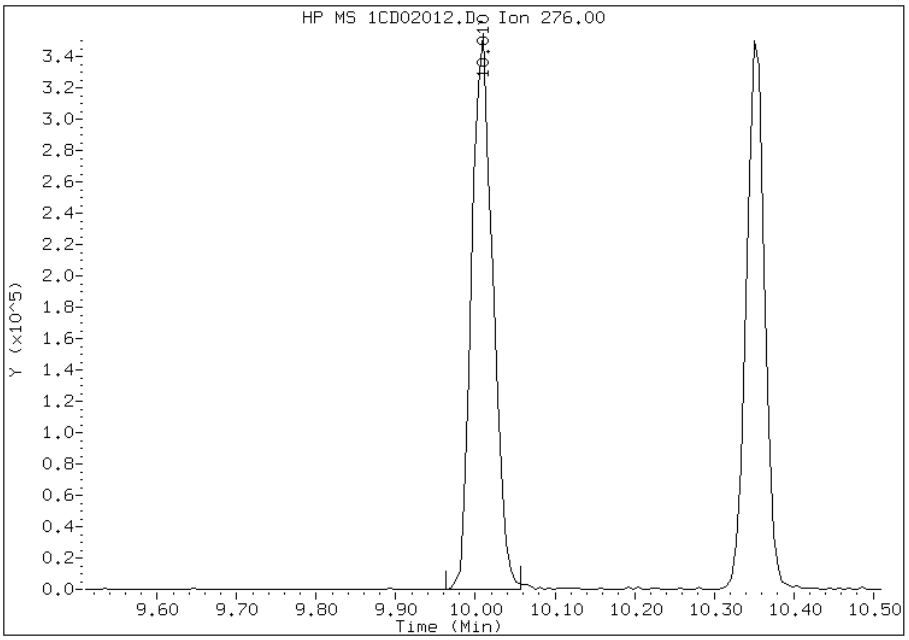
Processing Integration Results

RT: 10.01

Response: 653584

Amount: 20

Conc: 20



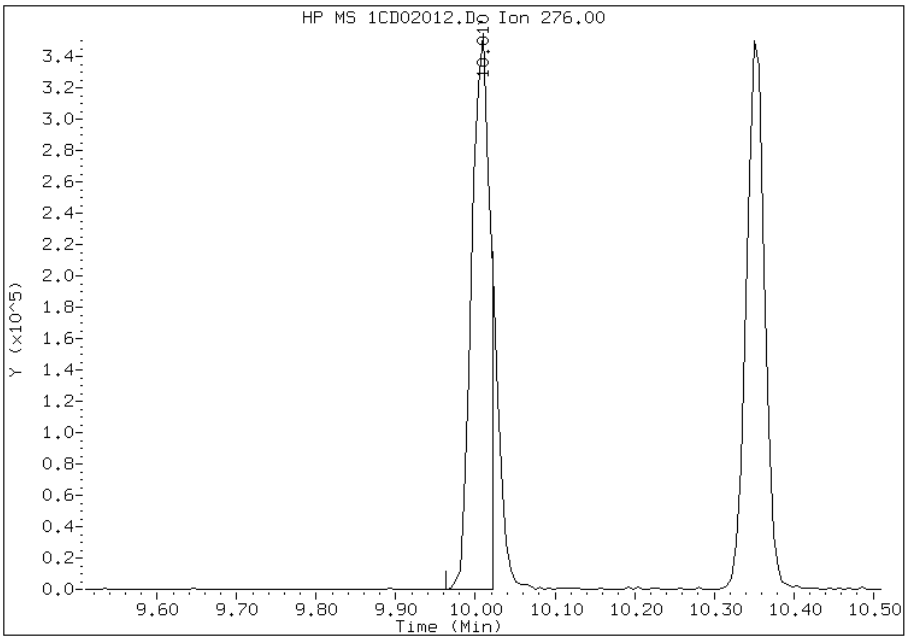
Manual Integration Results

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.: 680-88632-2

SDG No.: 68088632-2

Lab Sample ID: CCVIS 660-136079/3 Calibration Date: 04/02/2013 16:40

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: 1CD02015.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	1.074	0.0000	20900	20000	4.5	20.0
2-Methylnaphthalene	Ave	0.6994	0.6951	0.0000	19900	20000	-0.6	20.0
1-Methylnaphthalene	Ave	0.6293	0.6346	0.0000	20200	20000	0.9	20.0
Acenaphthylene	Ave	1.656	1.679	0.0000	20300	20000	1.4	20.0
Acenaphthene	Lin	1.025	1.013	0.0000	19800	20000	-1.2	20.0
Fluorene	Ave	1.367	1.341	0.0000	19600	20000	-1.9	20.0
Phenanthrene	Ave	1.165	1.176	0.0000	20200	20000	1.0	20.0
Anthracene	Ave	1.181	1.208	0.0000	20500	20000	2.3	20.0
Carbazole	Ave	1.012	1.059	0.0000	20900	20000	4.7	20.0
Fluoranthene	Ave	1.287	1.296	0.0000	20100	20000	0.7	20.0
Pyrene	Ave	1.108	1.156	0.0000	20900	20000	4.4	20.0
Benzo[a]anthracene	Lin	1.278	1.098	0.0000	19100	20000	-4.6	20.0
Chrysene	Ave	1.140	1.171	0.0000	20500	20000	2.7	20.0
Benzo[b]fluoranthene	Ave	1.131	1.150	0.0000	20300	20000	1.7	20.0
Benzo[k]fluoranthene	Ave	1.094	1.092	0.0000	20000	20000	-0.2	20.0
Benzo[a]pyrene	Ave	1.065	1.031	0.0000	19400	20000	-3.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.8889	0.0000	17600	20000	-12.1	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9786	0.0000	21000	20000	4.8	20.0
Benzo[g,h,i]perylene	Ave	1.032	1.034	0.0000	20000	20000	0.2	20.0
o-Terphenyl	Lin	0.6233	0.6075	0.0000	19300	20000	-3.3	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02015.D
Lab Smp Id: CCVIS
Inj Date : 02-APR-2013 16:40
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 14 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	497056	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	363517	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	670971	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	203804	20.0000	19.3344
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	842326	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	926334	40.0000	
2 Naphthalene	128	3.721	3.721	(1.003)	266870	20.0000	20.9034
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	172748	20.0000	19.8776
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	157727	20.0000	20.1702
5 Acenaphthylene	152	4.710	4.710	(0.982)	305151	20.0000	20.2824
7 Acenaphthene	154	4.821	4.821	(1.005)	184057	20.0000	19.7518
9 Fluorene	166	5.139	5.139	(1.071)	243772	20.0000	19.6235
11 Phenanthrene	178	5.763	5.763	(1.003)	394579	20.0000	20.1915
12 Anthracene	178	5.798	5.798	(1.009)	405120	20.0000	20.4506
13 Carbazole	167	5.904	5.904	(1.028)	355357	20.0000	20.9380
15 Fluoranthene	202	6.598	6.598	(1.148)	434679	20.0000	20.1413
16 Pyrene	202	6.762	6.762	(0.880)	487068	20.0000	20.8745
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	462241	20.0000	19.0750
19 Chrysene	228	7.704	7.704	(1.002)	493245	20.0000	20.5496
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	532672	20.0000	20.3401
21 Benzo(k)fluoranthene	252	8.545	8.545	(0.964)	505787	20.0000	19.9688
22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	477476	20.0000	19.3658
24 Indeno(1,2,3-cd)pyrene	276	10.015	10.015	(1.130)	411689	20.0000	17.5798(M)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.131)	453269	20.0000	20.9527
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	478868	20.0000	20.0354

QC Flag Legend

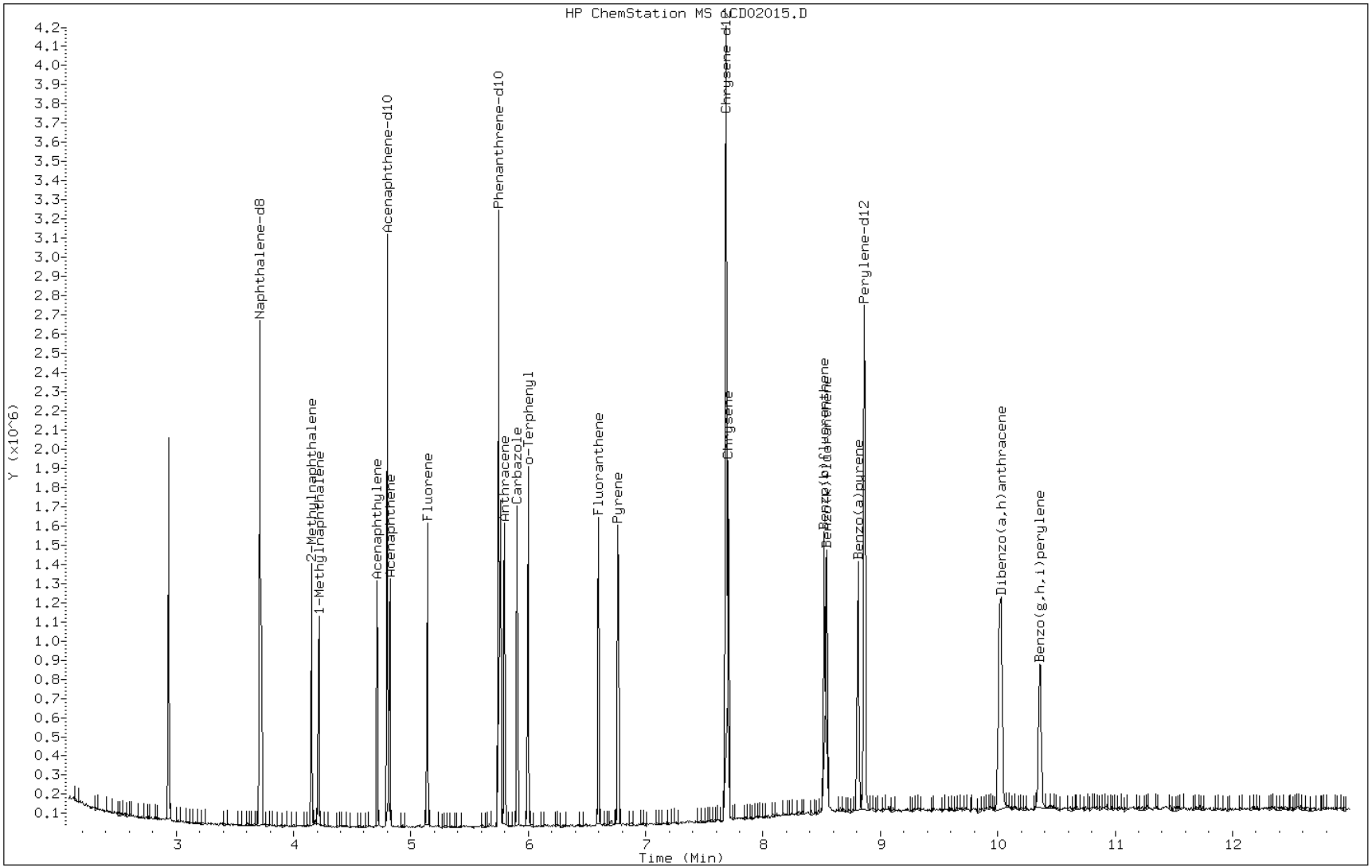
M - Compound response manually integrated.

Data File: 1CD02015.D

Date: 02-APR-2013 16:40

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS Operator: SCC



Manual Integration Report

Data File: 1CD02015.D
Inj. Date and Time: 02-APR-2013 16:40
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

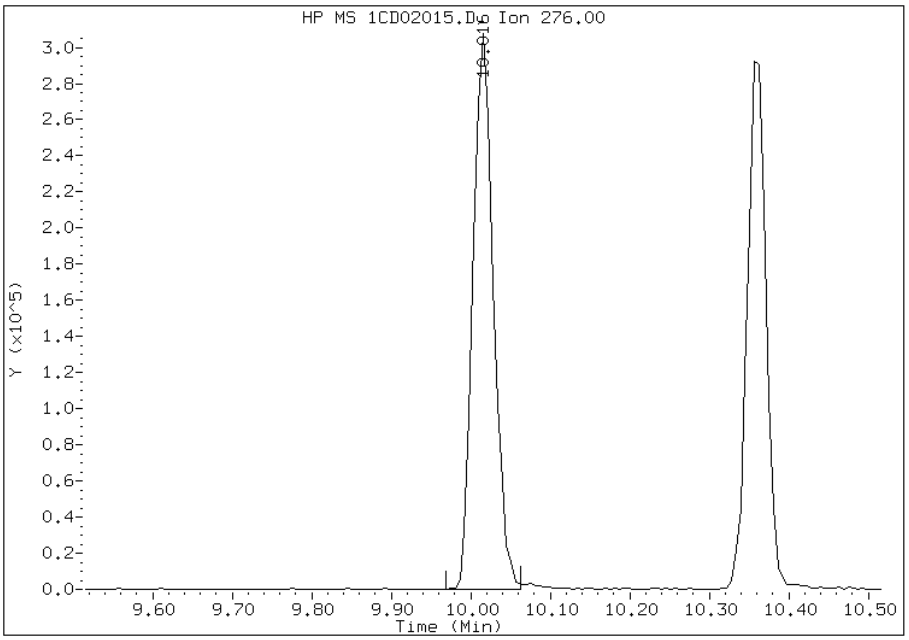
Processing Integration Results

RT: 10.02

Response: 545228

Amount: 23

Conc: 23



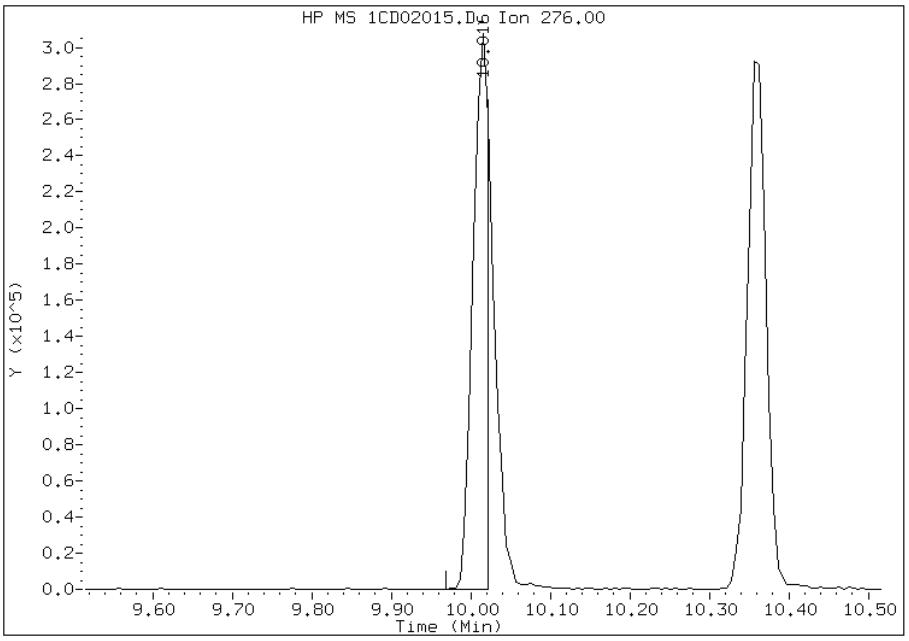
Manual Integration Results

RT: 10.02

Response: 411689

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 16:55
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Lab Sample ID: ICV 660-134781/10 Calibration Date: 02/22/2013 14:51

Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 14:28

Lab File ID: 1DB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	0.9509	0.0000	17800	20000	-11.1	35.0
2-Methylnaphthalene	Ave	0.6816	0.6138	0.0000	18000	20000	-9.9	35.0
1-Methylnaphthalene	Ave	0.6383	0.5884	0.0000	18400	20000	-7.8	35.0
Acenaphthylene	Ave	1.764	1.543	0.0000	17500	20000	-12.5	35.0
Acenaphthene	Ave	1.075	0.9046	0.0000	16800	20000	-15.9	35.0
Fluorene	Ave	1.256	1.107	0.0000	17600	20000	-11.9	35.0
Phenanthrene	Ave	1.135	0.9678	0.0000	17000	20000	-14.8	35.0
Anthracene	Ave	1.136	0.9920	0.0000	17500	20000	-12.7	35.0
Carbazole	Ave	1.016	0.8513	0.0000	16800	20000	-16.2	35.0
Fluoranthene	Ave	1.185	1.044	0.0000	17600	20000	-11.9	35.0
Pyrene	Ave	1.241	1.040	0.0000	16800	20000	-16.1	35.0
Benzo[a]anthracene	LinF	1.184	1.006	0.0000	18400	20000	-8.1	35.0
Chrysene	Ave	1.131	0.9327	0.0000	16500	20000	-17.5	35.0
Benzo[b]fluoranthene	Ave	1.030	0.9311	0.0000	18100	20000	-9.6	35.0
Benzo[k]fluoranthene	Ave	1.078	0.9609	0.0000	17800	20000	-10.9	35.0
Benzo[a]pyrene	Ave	1.019	0.8258	0.0000	16200	20000	-19.0	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	0.9629	0.0000	17700	20000	-11.4	35.0
Dibenz(a,h)anthracene	Ave	1.004	0.9897	0.0000	19700	20000	-1.4	35.0
Benzo[g,h,i]perylene	Ave	1.037	0.9265	0.0000	17900	20000	-10.6	35.0
o-Terphenyl	Ave	0.6186	0.5223	0.0000	16900	20000	-15.6	35.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22010.D
Lab Smp Id: ICV-1448440
Inj Date : 22-FEB-2013 14:51
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Naphthalene-d8	136	6.186	6.188	(1.000)	3227519	40.0000	
* 6 Acenaphthene-d10	164	7.861	7.856	(1.000)	1973397	40.0000	
* 9 Phenanthrene-d10	188	9.118	9.114	(1.000)	3226971	40.0000	
$ 13 o-Terphenyl	230	9.424	9.431	(1.034)	842705	16.8872	17
* 17 Chrysene-d12	240	11.463	11.464	(1.000)	3262056	40.0000	
* 22 Perylene-d12	264	13.343	13.344	(1.000)	3389756	40.0000	
2 Naphthalene	128	6.204	6.205	(1.003)	1534495	17.7730	18
3 2-Methylnaphthalene	142	6.903	6.910	(1.116)	990529	18.0102	18
4 1-Methylnaphthalene	142	6.997	6.999	(1.131)	949525	18.4366	18
5 Acenaphthylene	152	7.732	7.733	(0.984)	1522763	17.5026	18
7 Acenaphthene	154	7.884	7.886	(1.003)	892518	16.8249	17
8 Fluorene	166	8.325	8.326	(1.059)	1091870	17.6166	18
10 Phenanthrene	178	9.136	9.137	(1.002)	1561459	17.0459	17
11 Anthracene	178	9.177	9.184	(1.006)	1600546	17.4635	17
12 Carbazole	167	9.324	9.313	(1.023)	1373599	16.7651	17(M)
14 Fluoranthene	202	10.117	10.124	(1.110)	1683952	17.6156	18
15 Pyrene	202	10.305	10.312	(0.899)	1697011	16.7712	17

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
16 Benzo(a)anthracene	228	11.439	11.446	(0.998)	1641298	18.3780	18
18 Chrysene	228	11.486	11.499	(1.002)	1521333	16.5002	16
19 Benzo(b)fluoranthene	252	12.779	12.792	(0.958)	1578092	18.0867	18
20 Benzo(k)fluoranthene	252	12.820	12.839	(0.961)	1628670	17.8278	18
21 Benzo(a)pyrene	252	13.243	13.262	(0.993)	1399541	16.2092	16
23 Indeno(1,2,3-cd)pyrene	276	14.964	14.995	(1.122)	1631960	17.7111	18(H)
24 Dibenzo(a,h)anthracene	278	15.000	15.030	(1.124)	1677351	19.7111	20
25 Benzo(g,h,i)perylene	276	15.428	15.465	(1.156)	1570269	17.8738	18

QC Flag Legend

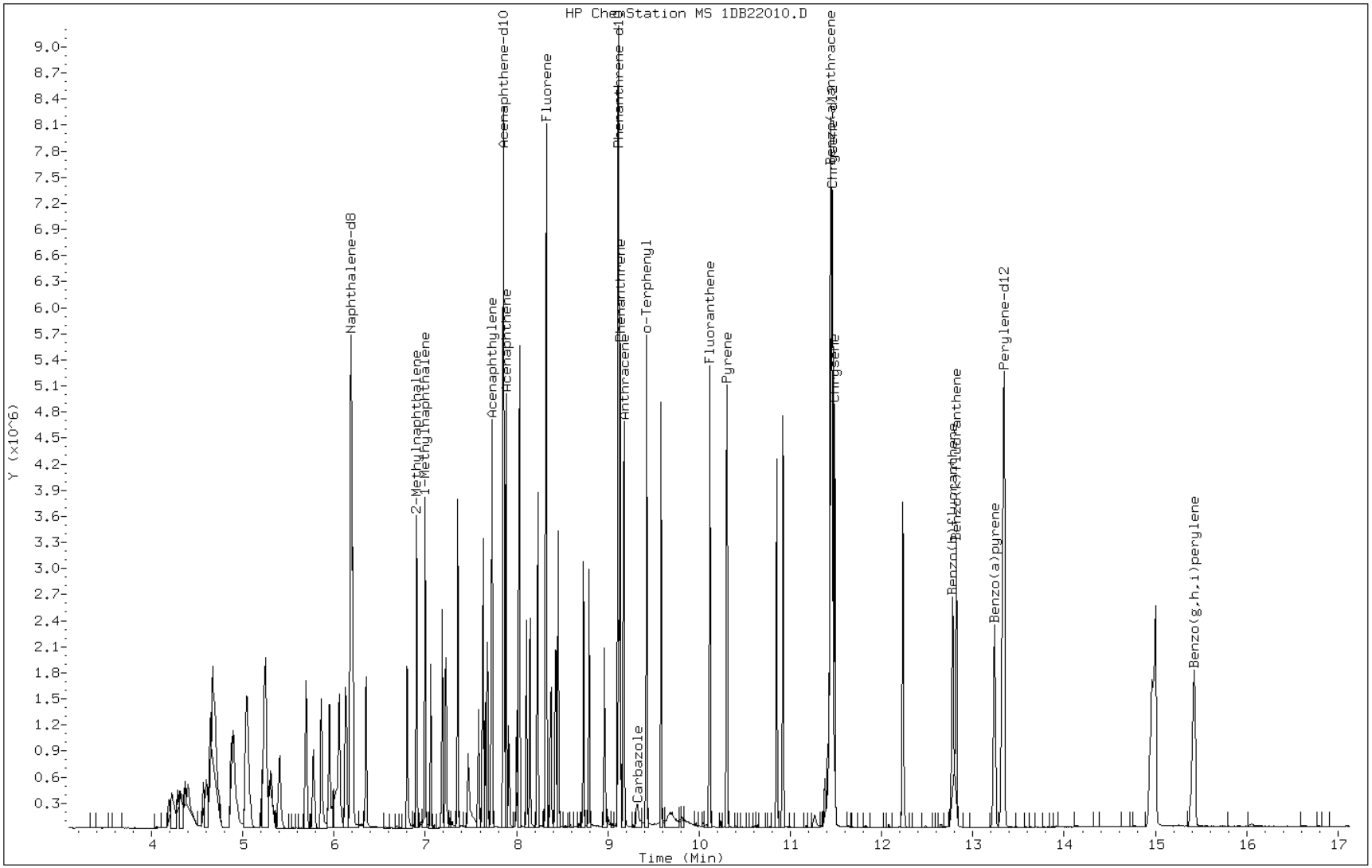
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22010.D

Date: 22-FEB-2013 14:51

Client ID: Instrument: BSMSD.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1DB22010.D
Inj. Date and Time: 22-FEB-2013 14:51
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 02/22/2013

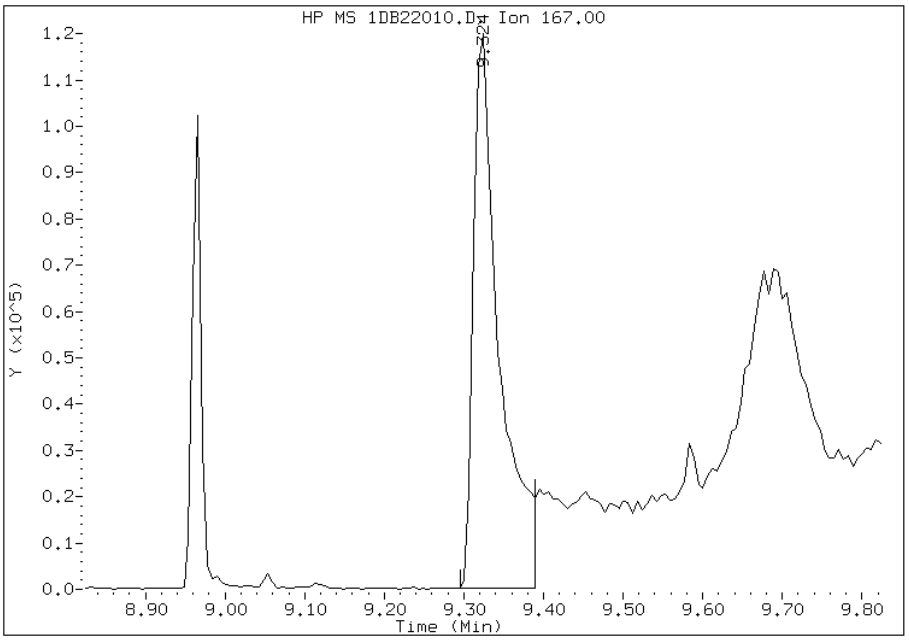
Processing Integration Results

RT: 9.32

Response: 270307

Amount: 3

Conc: 3



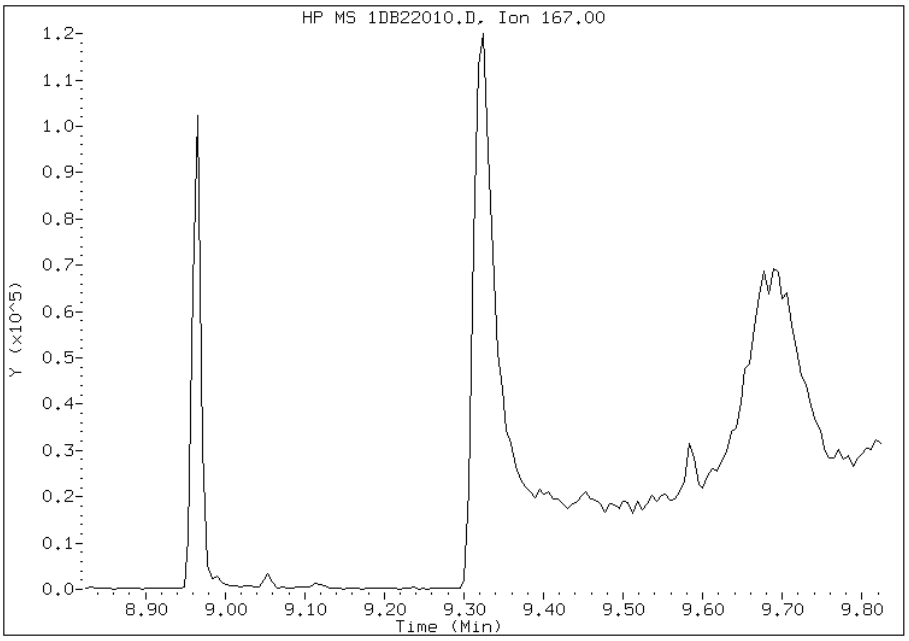
Manual Integration Results

RT: 9.32

Response: 1373599

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 15:27
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Lab Sample ID: CCVIS 660-136038/9 Calibration Date: 03/28/2013 14:57

Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 14:28

Lab File ID: 1DC28009.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	1.030	0.0000	19300	20000	-3.7	20.0
2-Methylnaphthalene	Ave	0.6816	0.6826	0.0000	20000	20000	0.1	20.0
1-Methylnaphthalene	Ave	0.6383	0.6307	0.0000	19800	20000	-1.2	20.0
Acenaphthylene	Ave	1.764	1.679	0.0000	19000	20000	-4.8	20.0
Acenaphthene	Ave	1.075	1.005	0.0000	18700	20000	-6.6	20.0
Fluorene	Ave	1.256	1.231	0.0000	19600	20000	-2.0	20.0
Phenanthrene	Ave	1.135	1.074	0.0000	18900	20000	-5.4	20.0
Anthracene	Ave	1.136	1.088	0.0000	19200	20000	-4.2	20.0
Carbazole	Ave	1.016	0.9355	0.0000	18400	20000	-7.9	20.0
Fluoranthene	Ave	1.185	1.158	0.0000	19500	20000	-2.3	20.0
Pyrene	Ave	1.241	1.170	0.0000	18900	20000	-5.7	20.0
Benzo[a]anthracene	LinF	1.184	1.038	0.0000	19000	20000	-5.2	20.0
Chrysene	Ave	1.131	1.026	0.0000	18200	20000	-9.2	20.0
Benzo[b]fluoranthene	Ave	1.030	0.9837	0.0000	19100	20000	-4.5	20.0
Benzo[k]fluoranthene	Ave	1.078	1.023	0.0000	19000	20000	-5.1	20.0
Benzo[a]pyrene	Ave	1.019	0.996	0.0000	19600	20000	-2.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	1.054	0.0000	19400	20000	-3.1	20.0
Dibenz(a,h)anthracene	Ave	1.004	1.001	0.0000	19900	20000	-0.3	20.0
Benzo[g,h,i]perylene	Ave	1.037	1.004	0.0000	19400	20000	-3.2	20.0
o-Terphenyl	Ave	0.6186	0.6180	0.0000	20000	20000	-0.0	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28009.D
Lab Smp Id: CCVIS-1512372
Inj Date : 28-MAR-2013 14:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m
Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 9 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.102	6.102	(1.000)	3447549	40.0000	(H)
* 6 Acenaphthene-d10	164	7.777	7.777	(1.000)	2210474	40.0000	(H)
* 9 Phenanthrene-d10	188	9.040	9.040	(1.000)	3698385	40.0000	(H)
$ 13 o-Terphenyl	230	9.351	9.351	(1.034)	1142813	20.0000	20(H)
* 17 Chrysene-d12	240	11.373	11.373	(1.000)	3890381	40.0000	(H)
* 22 Perylene-d12	264	13.223	13.223	(1.000)	4013621	40.0000	(H)
2 Naphthalene	128	6.126	6.126	(1.004)	1775883	20.0000	19(H)
3 2-Methylnaphthalene	142	6.825	6.825	(1.118)	1176660	20.0000	20(H)
4 1-Methylnaphthalene	142	6.919	6.919	(1.134)	1087154	20.0000	20(H)
5 Acenaphthylene	152	7.653	7.653	(0.984)	1856038	20.0000	19(H)
7 Acenaphthene	154	7.806	7.806	(1.004)	1110279	20.0000	19(H)
8 Fluorene	166	8.247	8.247	(1.060)	1360386	20.0000	20(H)
10 Phenanthrene	178	9.064	9.064	(1.003)	1986764	20.0000	19(H)
11 Anthracene	178	9.099	9.099	(1.006)	2012789	20.0000	19(H)
12 Carbazole	167	9.240	9.240	(1.022)	1729871	20.0000	18(H)
14 Fluoranthene	202	10.045	10.045	(1.111)	2141146	20.0000	20(H)
15 Pyrene	202	10.233	10.233	(0.900)	2275229	20.0000	19(H)
16 Benzo(a)anthracene	228	11.349	11.349	(0.998)	2018846	20.0000	19(H)
18 Chrysene	228	11.396	11.396	(1.002)	1996328	20.0000	18(H)
19 Benzo(b)fluoranthene	252	12.671	12.671	(0.958)	1974150	20.0000	19(H)
20 Benzo(k)fluoranthene	252	12.712	12.712	(0.961)	2053634	20.0000	19(H)
21 Benzo(a)pyrene	252	13.124	13.124	(0.992)	1999552	20.0000	20(H)
23 Indeno(1,2,3-cd)pyrene	276	14.827	14.827	(1.121)	2114905	20.0000	19(MH)
24 Dibenzo(a,h)anthracene	278	14.863	14.863	(1.124)	2008289	20.0000	20(H)
25 Benzo(g,h,i)perylene	276	15.280	15.280	(1.156)	2014741	20.0000	19(H)

QC Flag Legend

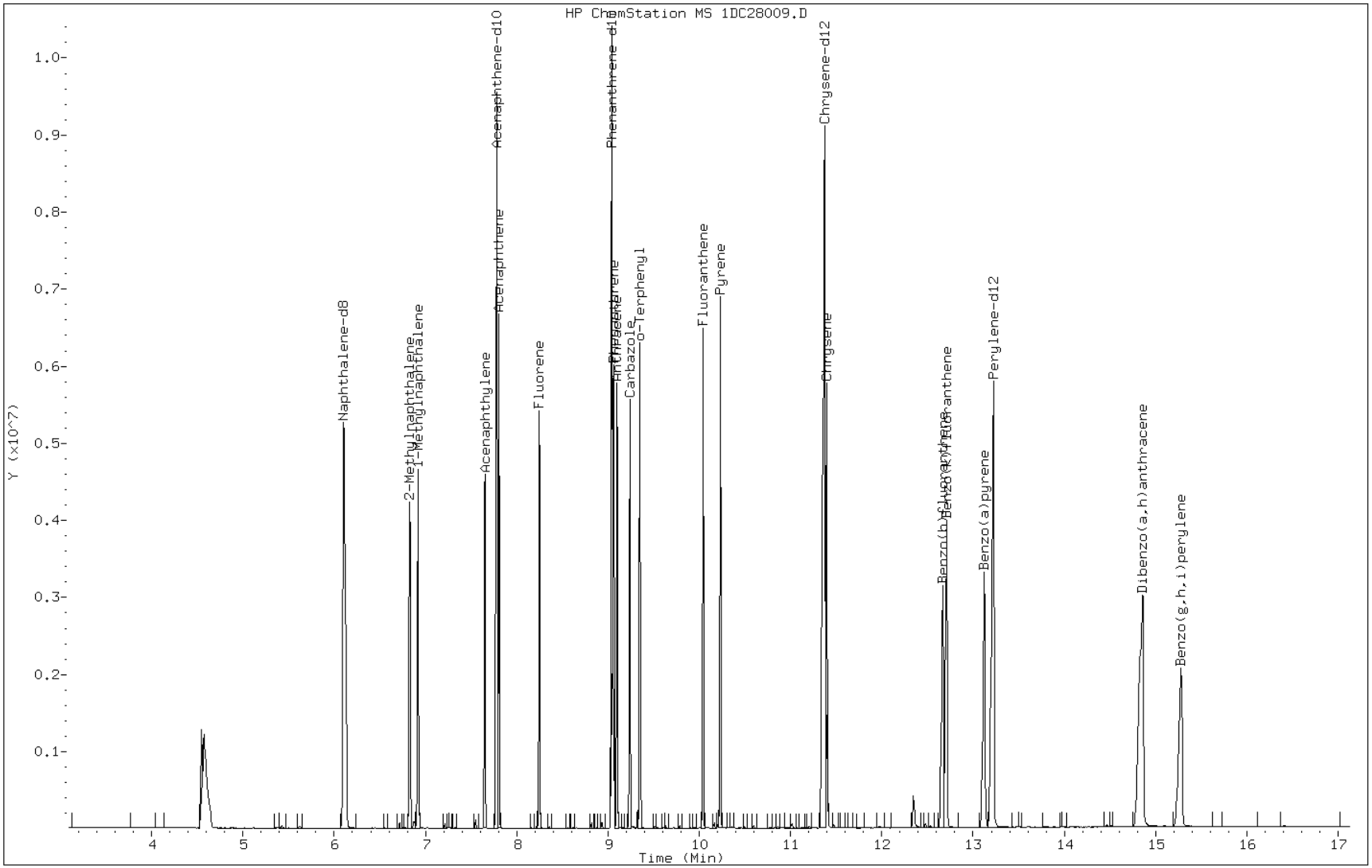
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DC28009.D

Date: 28-MAR-2013 14:57

Client ID: Instrument: BSMSD.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1DC28009.D
Inj. Date and Time: 28-MAR-2013 14:57
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

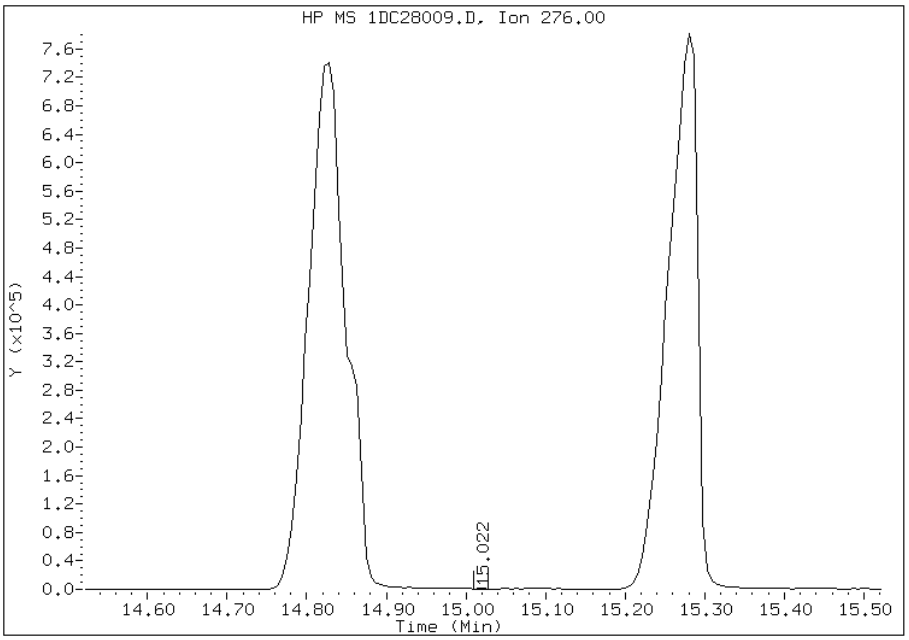
Processing Integration Results

RT: 15.02

Response: 528

Amount: 0

Conc: 0



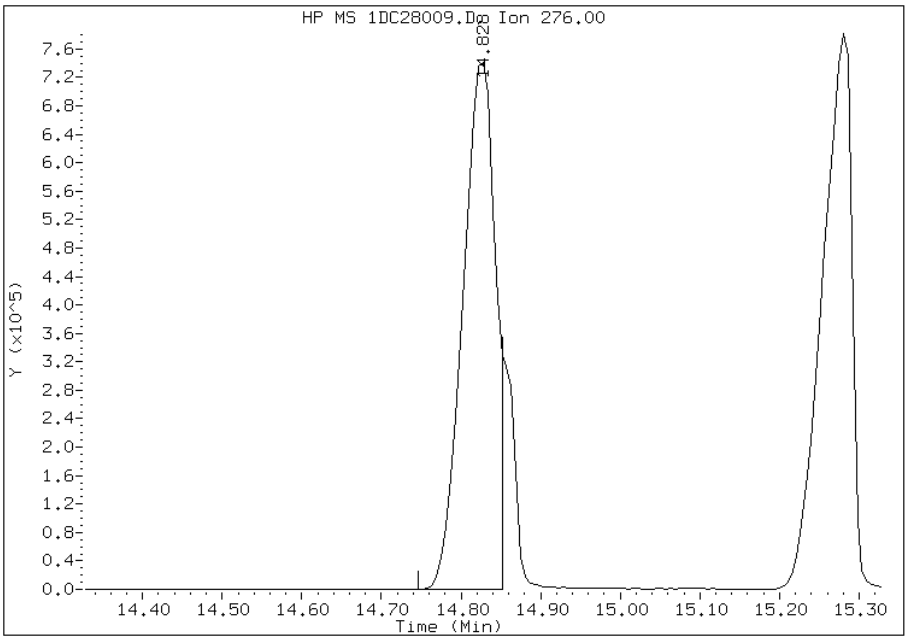
Manual Integration Results

RT: 14.83

Response: 2114905

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 15:22
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-FEB-2013 11:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.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

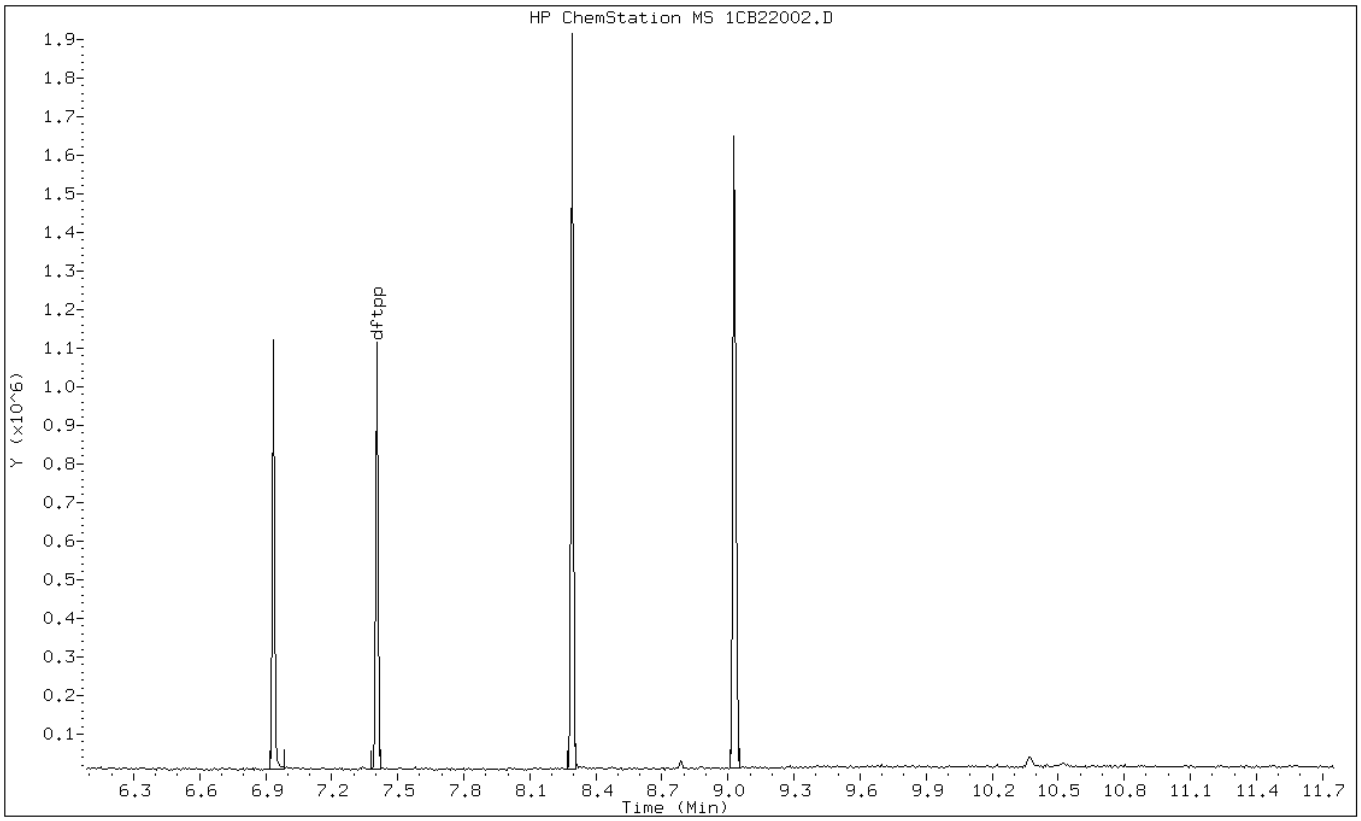
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.404	7.469	-0.065	198	73440			50.00- 0.00	100.00
7.404	7.469	-0.065	51	31096			10.00- 80.00	42.34
7.404	7.469	-0.065	68	471			0.00- 2.00	1.08
7.404	7.469	-0.065	69	43512			0.00- 0.00	59.25
7.404	7.469	-0.065	70	192			0.00- 2.00	0.44
7.404	7.469	-0.065	127	39368			10.00- 80.00	53.61
7.404	7.469	-0.065	197	733			0.00- 2.00	1.00
7.404	7.469	-0.065	442	38240			50.00- 0.00	52.07
7.404	7.469	-0.065	199	6330			5.00- 9.00	8.62
7.404	7.469	-0.065	275	14104			10.00- 60.00	19.20
7.404	7.469	-0.065	365	1462			1.00- 0.00	1.99
7.404	7.469	-0.065	441	5496			0.01- 99.99	86.06
7.404	7.469	-0.065	443	6386			15.00- 24.00	16.70

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



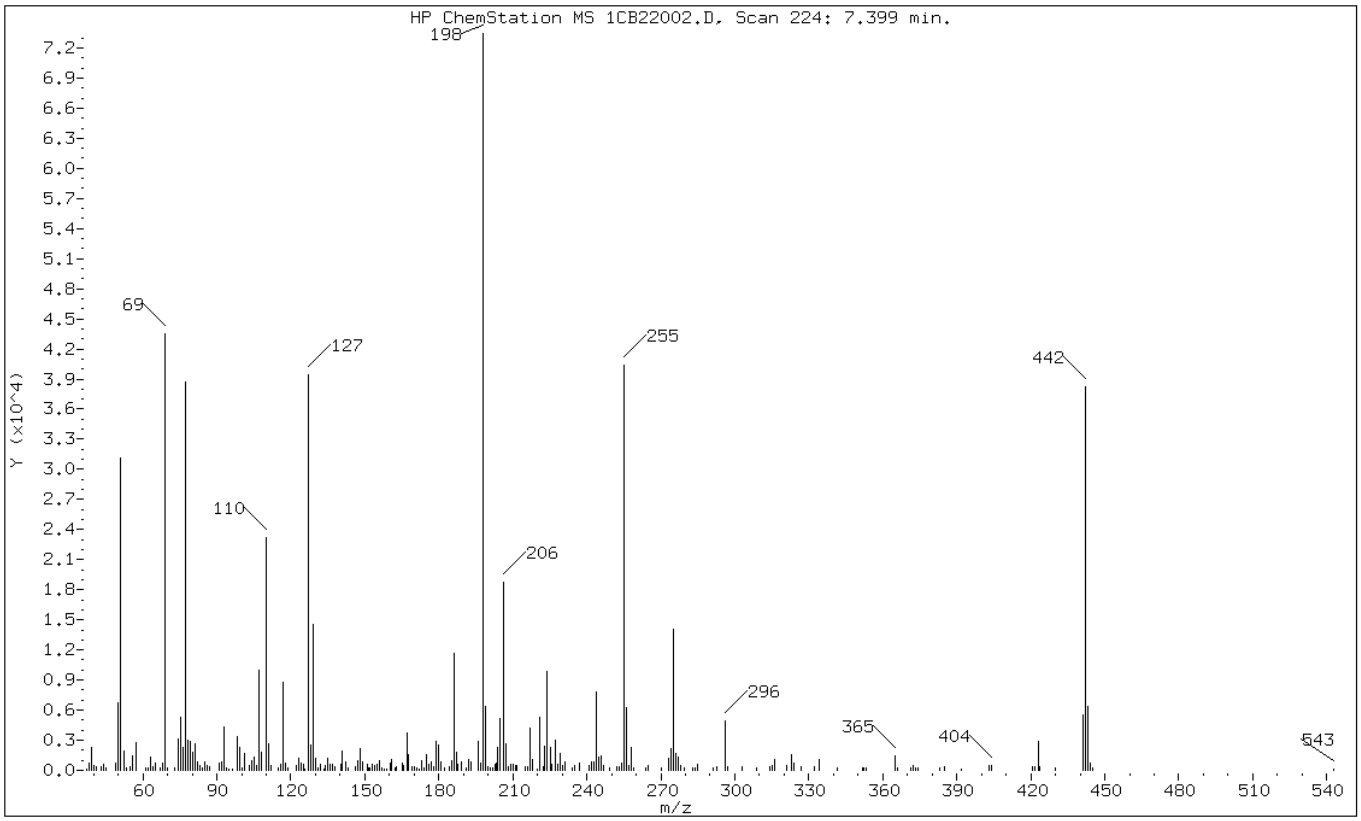
Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 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	42.34
68	Less than 2.00% of mass 69	0.64 (1.08)
69	Mass 69 relative abundance	59.25
70	Less than 2.00% of mass 69	0.26 (0.44)
127	10.00 - 80.00% of mass 198	53.61
197	Less than 2.00% of mass 198	1.00
442	Greater than 50.00% of mass 198	52.07
199	5.00 - 9.00% of mass 198	8.62
275	10.00 - 60.00% of mass 198	19.20
365	Greater than 1.00% of mass 198	1.99
441	Present, but less than mass 443	7.48
443	15.00 - 24.00% of mass 442	8.70 (16.70)

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\1CB22002.D
Spectrum: HP ChemStation MS 1CB22002.D, Scan 224: 7.399 min.
Location of Maximum: 198.00
Number of points: 238

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	176	115.10	214	181.00	901	256.00	6303
38.10	755	116.00	605	182.10	220	256.90	429
39.10	2229	117.00	8730	184.00	307	257.90	2280
40.10	531	117.90	749	185.10	1015	258.90	258
41.10	318	119.00	225	186.10	11683	263.90	210
42.90	335	122.00	424	187.10	1756	265.00	509
44.00	648	123.00	1147	187.90	552	270.00	205
45.20	211	124.10	749	188.90	869	273.00	1169
49.10	738	125.10	635	191.00	237	274.00	2122
50.10	6757	125.80	170	192.00	1104	275.00	14104
51.10	31096	127.10	39368	193.10	865	275.90	1652
52.10	1930	128.10	2564	196.00	2872	277.00	1264
53.20	277	129.00	14531	196.90	733	277.90	505
55.00	369	129.80	1177	198.00	73440	279.70	194
56.00	1418	131.00	276	199.00	6330	283.00	190
57.00	2762	132.10	570	199.90	373	283.80	183
61.00	226	133.20	171	201.00	298	285.00	556
62.00	292	134.10	490	201.60	269	291.10	200
63.20	1348	135.10	1144	202.90	583	292.90	373
64.00	333	136.10	602	203.30	687	296.00	4941
65.10	737	137.00	557	204.00	2340	297.00	339
66.90	287	137.80	323	205.00	5123	302.90	397
67.80	471	140.10	644	206.10	18696	308.90	282
68.20	663	141.00	1972	207.10	2615	314.00	365
69.10	43512	142.00	851	208.00	418	315.10	502
70.00	192	143.10	211	209.00	555	316.10	1036
73.10	186	146.10	337	210.30	624	321.00	472
74.10	3155	147.00	919	210.90	494	323.00	1518
75.10	5232	148.00	2159	211.60	459	324.00	680
76.10	2236	149.00	790	214.90	324	327.10	397
77.10	38720	151.00	613	215.80	325	332.10	308
78.10	3056	151.70	298	217.00	4236	334.20	1026
79.10	2911	152.20	189	218.00	1088	341.30	184
80.00	1751	153.00	575	220.00	170	351.80	221
81.10	2627	154.10	436	221.10	5285	352.40	258
82.00	869	155.10	587	222.20	336	353.20	226
83.10	502	156.00	912	222.80	2398	364.90	1462
83.90	288	156.80	189	224.00	9837	365.90	266
85.00	785	158.00	151	225.10	2230	371.10	209
86.10	533	158.90	165	226.00	626	372.10	462

87.10	324	160.10	719	227.00	3030	373.10	210
91.10	726	160.90	1140	228.00	610	374.50	233
91.90	792	162.10	280	229.00	1664	383.20	274
93.10	4314	162.70	420	230.00	453	384.80	322
94.00	297	165.00	758	231.00	869	391.80	159
95.00	178	165.90	506	234.00	203	402.90	522
96.10	155	167.00	3698	234.90	491	404.10	524
98.10	3307	167.80	1598	236.90	687	420.90	334
99.10	2331	169.10	332	240.80	432	421.80	348
100.00	203	170.20	321	242.00	793	423.00	2839
101.00	1667	171.10	292	242.90	893	423.80	381
103.00	538	171.80	156	244.00	7817	430.10	181
104.10	935	173.20	904	245.00	1351	441.00	5496
105.10	1280	174.10	287	246.00	1390	442.00	38240
106.20	492	175.00	1609	246.80	435	443.10	6386
107.00	9992	176.00	544	249.00	291	444.00	706
108.00	1788	177.10	810	252.10	410	444.90	181
110.00	23216	177.80	349	252.90	317	542.80	156
111.10	2593	179.10	2922	253.90	662		
112.10	540	180.00	2572	255.00	40344		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 28-MAR-2013 11:42
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.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

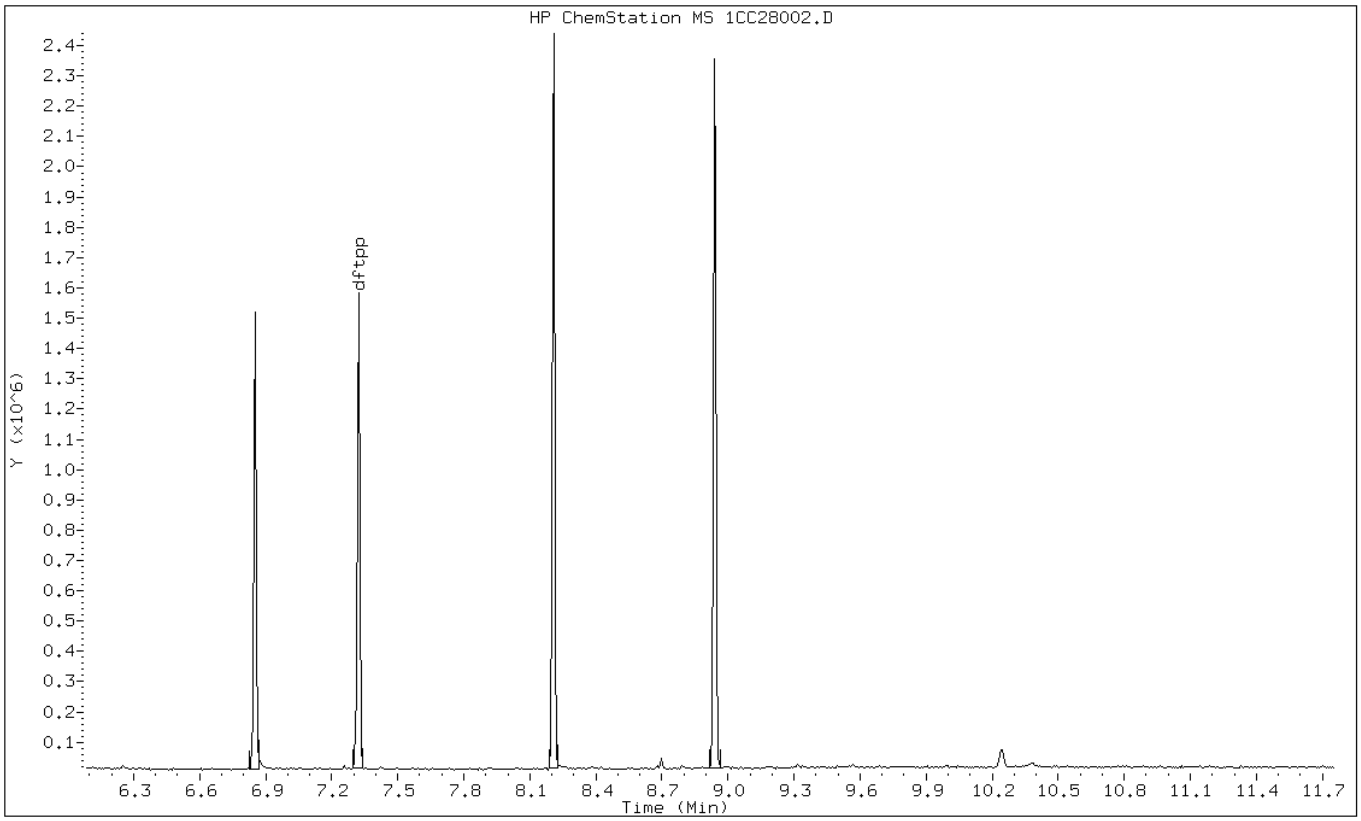
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.322	7.469	-0.147	198	175680			50.00- 0.00	100.00
7.322	7.469	-0.147	51	57992			10.00- 80.00	33.01
7.322	7.469	-0.147	68	1045			0.00- 2.00	1.38
7.322	7.469	-0.147	69	75992			0.00- 0.00	43.26
7.322	7.469	-0.147	70	578			0.00- 2.00	0.76
7.322	7.469	-0.147	127	84384			10.00- 80.00	48.03
7.322	7.469	-0.147	197	1547			0.00- 2.00	0.88
7.322	7.469	-0.147	442	160576			50.00- 0.00	91.40
7.322	7.469	-0.147	199	12476			5.00- 9.00	7.10
7.322	7.469	-0.147	275	41464			10.00- 60.00	23.60
7.322	7.469	-0.147	365	7644			1.00- 0.00	4.35
7.322	7.469	-0.147	441	23184			0.01- 99.99	63.51
7.322	7.469	-0.147	443	36504			15.00- 24.00	22.73

Data File: 1CC28002.D

Date: 28-MAR-2013 11:42

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



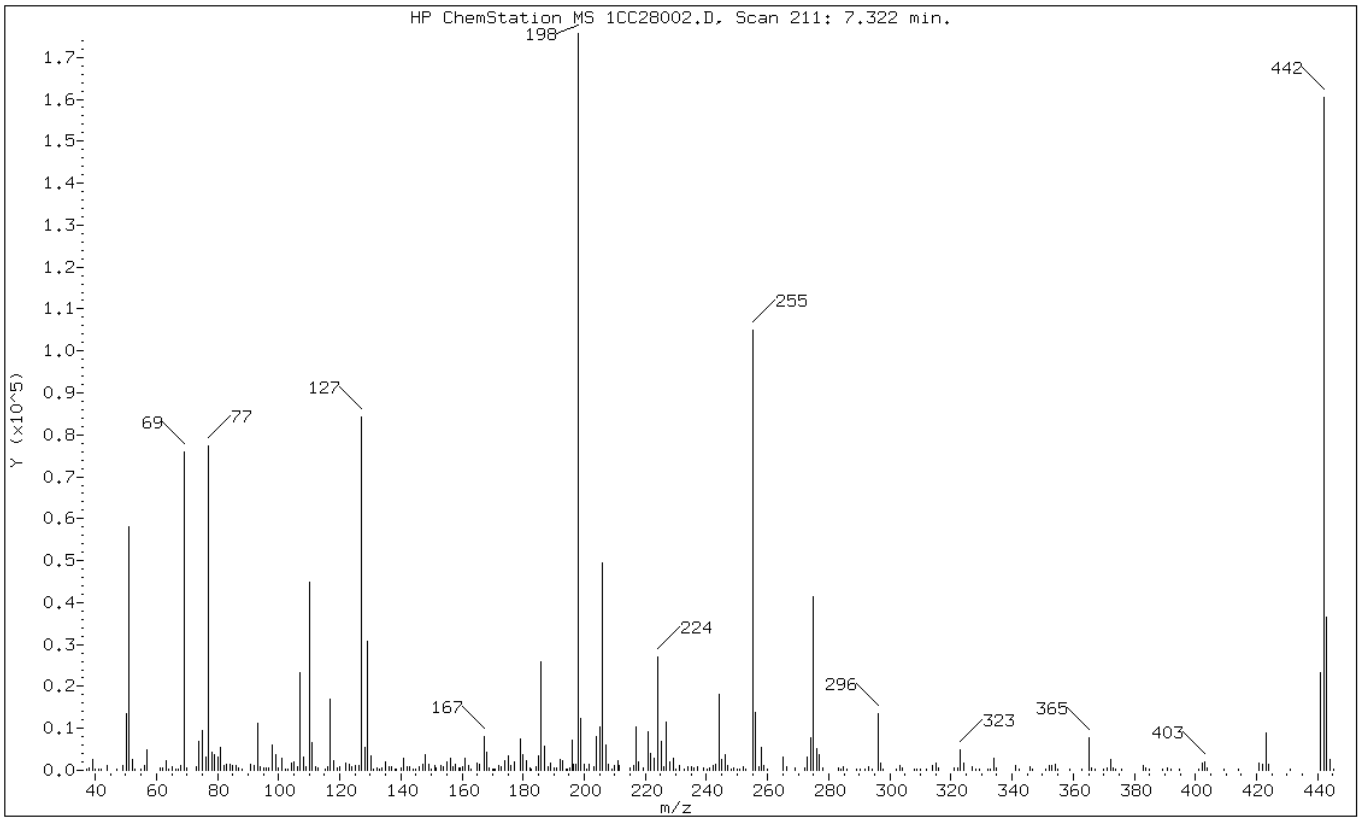
Data File: 1CC28002.D

Date: 28-MAR-2013 11:42

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	33.01
68	Less than 2.00% of mass 69	0.59 (1.38)
69	Mass 69 relative abundance	43.26
70	Less than 2.00% of mass 69	0.33 (0.76)
127	10.00 - 80.00% of mass 198	48.03
197	Less than 2.00% of mass 198	0.88
442	Greater than 50.00% of mass 198	91.40
199	5.00 - 9.00% of mass 198	7.10
275	10.00 - 60.00% of mass 198	23.60
365	Greater than 1.00% of mass 198	4.35
441	Present, but less than mass 443	13.20
443	15.00 - 24.00% of mass 442	20.78 (22.73)

Data File: 1CC28002.D

Date: 28-MAR-2013 11:42

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28002.D
Spectrum: HP ChemStation MS 1CC28002.D, Scan 211: 7.322 min.
Location of Maximum: 198.00
Number of points: 292

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	294	125.10	1116	197.10	1547	291.80	246
38.10	630	126.20	1154	198.00	175680	293.00	847
39.20	2603	127.10	84384	199.00	12476	294.10	212
40.00	408	128.10	5411	200.10	1313	296.00	13416
41.20	348	129.00	30832	200.90	187	297.00	1681
42.00	193	130.10	3565	201.60	1567	297.90	256
44.00	1093	131.10	373	203.20	825	302.10	338
46.90	181	132.10	511	204.10	8129	303.20	1156
49.10	1140	132.90	271	205.00	10400	304.10	460
50.10	13428	133.80	674	206.10	49432	308.00	168
51.10	57992	135.10	2085	207.00	6166	308.90	285
52.10	2487	136.00	767	208.00	1401	310.10	164
52.80	156	137.00	942	209.20	383	311.90	236
55.10	337	138.20	176	210.00	1251	314.00	1043
56.10	1126	138.70	221	211.00	2371	315.00	1865
57.10	4979	140.20	712	211.60	1259	316.00	518
61.10	544	141.00	2761	215.10	588	321.20	550
62.10	599	142.00	977	216.00	1064	322.10	603
63.10	2258	143.00	796	217.00	10305	323.00	4944
64.10	174	143.90	380	217.80	2070	324.00	1585
65.00	871	144.90	211	219.30	689	327.00	810
66.20	154	146.10	911	221.00	9334	328.20	265
67.10	402	147.00	1554	221.60	3971	329.20	358
68.10	1045	148.00	3782	222.90	2906	332.10	240
69.10	75992	149.00	1427	224.10	27024	332.70	164
70.10	578	150.00	283	225.10	6866	334.10	2862
73.10	834	151.10	1130	226.00	835	334.90	636
74.00	6873	151.70	435	227.00	11564	341.10	1069
75.10	9534	152.90	1041	228.00	1915	342.30	170
76.10	3183	154.00	728	229.00	2855	345.90	742
77.10	77320	155.00	2109	229.90	225	346.70	303
78.20	4278	156.10	2889	231.10	1135	351.00	263
79.00	3766	157.00	929	232.80	280	352.10	1277
80.00	3178	157.90	1527	234.10	813	353.00	1175
81.00	5589	159.00	550	235.00	911	354.10	1455
82.00	1067	159.60	475	235.90	646	354.80	277
83.10	1403	160.10	940	237.00	907	359.00	193
84.00	1332	160.90	2762	238.90	485	362.80	172
85.00	1182	162.10	1195	240.20	153	365.00	7644
86.10	1187	163.10	263	240.90	601	366.00	698

87.00	553	165.10	1735	242.00	1243	367.10	153
88.00	353	165.90	1342	242.90	1417	369.80	320
91.00	1495	167.10	8176	244.00	18256	371.10	439
92.10	1101	168.00	4307	245.00	2490	372.10	2645
93.00	11102	169.00	492	246.00	3736	372.90	510
94.00	864	170.00	314	247.00	1048	373.80	366
95.10	470	170.40	307	248.00	421	375.90	152
96.10	689	171.00	331	248.90	554	383.00	1095
96.90	564	172.00	1053	250.20	320	383.80	440
98.00	5969	173.00	960	250.70	240	384.80	391
99.00	3600	174.10	2229	252.20	871	389.40	153
100.00	498	175.10	3576	252.90	284	390.80	613
101.00	2743	176.10	1123	255.00	104920	392.00	154
102.10	160	177.10	1950	256.10	13841	394.90	212
102.90	364	179.00	7514	257.20	1001	401.10	308
104.10	1615	180.00	3880	258.00	5520	402.10	1695
104.90	2147	181.10	2231	258.90	1271	403.10	2087
106.00	933	182.10	464	259.90	325	404.00	687
107.10	23360	182.80	153	265.00	3276	409.20	289
108.00	3118	184.20	929	266.10	756	414.20	158
109.10	833	185.10	3566	269.10	572	420.90	1605
110.10	44752	186.00	25984	272.10	460	422.00	1469
111.10	6663	187.10	5816	273.00	3273	423.00	8780
112.00	991	188.20	753	274.00	7767	423.90	1316
113.00	509	189.00	1701	275.00	41464	431.10	306
115.30	177	190.00	461	276.10	5206	441.00	23184
116.10	741	190.80	566	277.00	3602	442.00	160576
117.00	17008	192.00	2454	277.90	475	443.00	36504
118.00	2311	193.00	2393	283.00	610	444.10	2482
119.10	551	193.90	408	284.10	393	445.20	409
120.10	775	194.60	180	284.90	769		
122.00	1695	195.20	647	286.10	227		
123.10	1318	196.00	7215	288.90	205		
123.80	818	196.60	1396	290.20	151		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 01-APR-2013 11:14
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.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

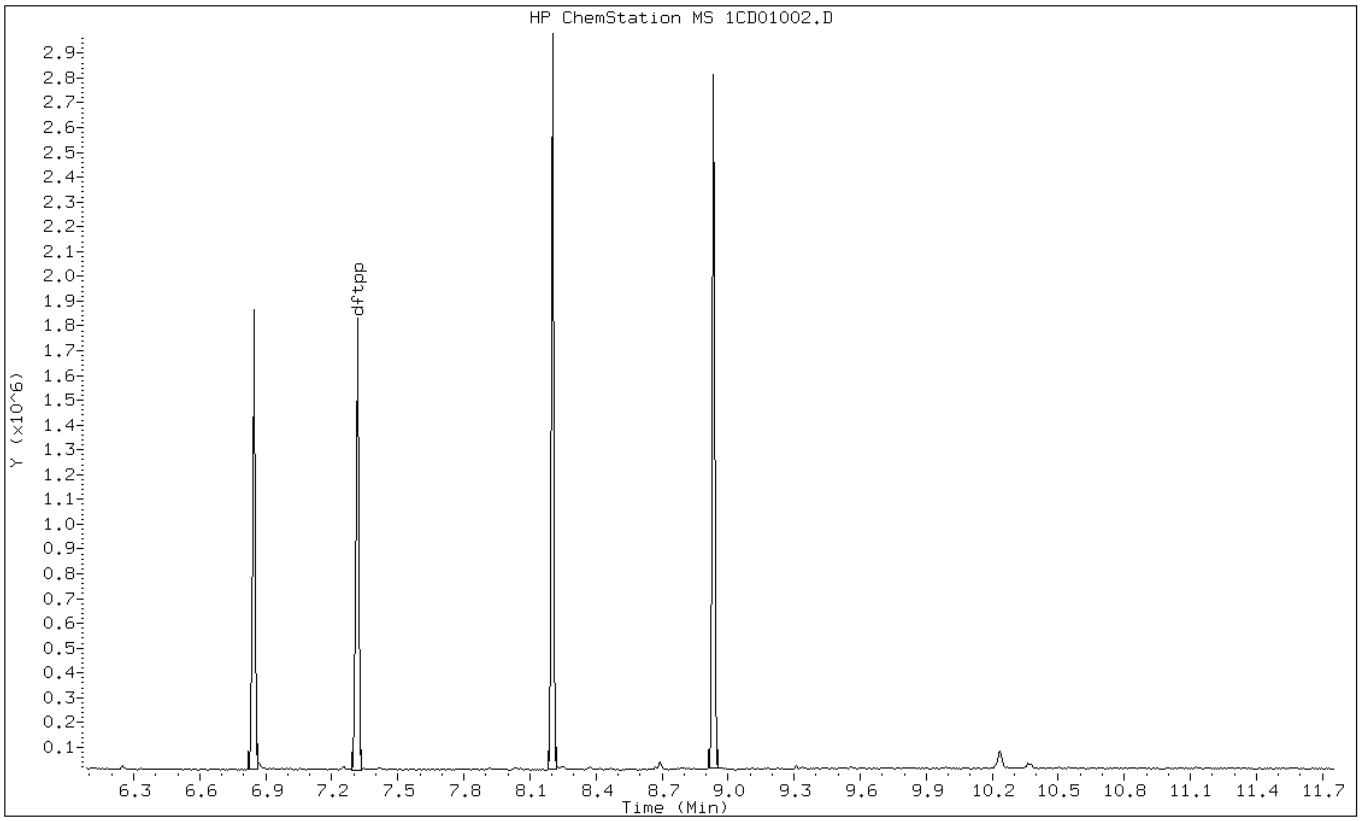
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.316	7.469	-0.153	198	202560			50.00- 0.00	100.00
7.316	7.469	-0.153	51	63952			10.00- 80.00	31.57
7.316	7.469	-0.153	68	1419			0.00- 2.00	1.60
7.316	7.469	-0.153	69	88712			0.00- 0.00	43.80
7.316	7.469	-0.153	70	356			0.00- 2.00	0.40
7.316	7.469	-0.153	127	93064			10.00- 80.00	45.94
7.316	7.469	-0.153	197	0	0.0	0.0	0.00- 2.00	0.00
7.316	7.469	-0.153	442	190336			50.00- 0.00	93.97
7.316	7.469	-0.153	199	13258			5.00- 9.00	6.55
7.316	7.469	-0.153	275	50288			10.00- 60.00	24.83
7.316	7.469	-0.153	365	7925			1.00- 0.00	3.91
7.316	7.469	-0.153	441	30240			0.01- 99.99	81.24
7.316	7.469	-0.153	443	37224			15.00- 24.00	19.56

Data File: 1CD01002.D

Date: 01-APR-2013 11:14

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



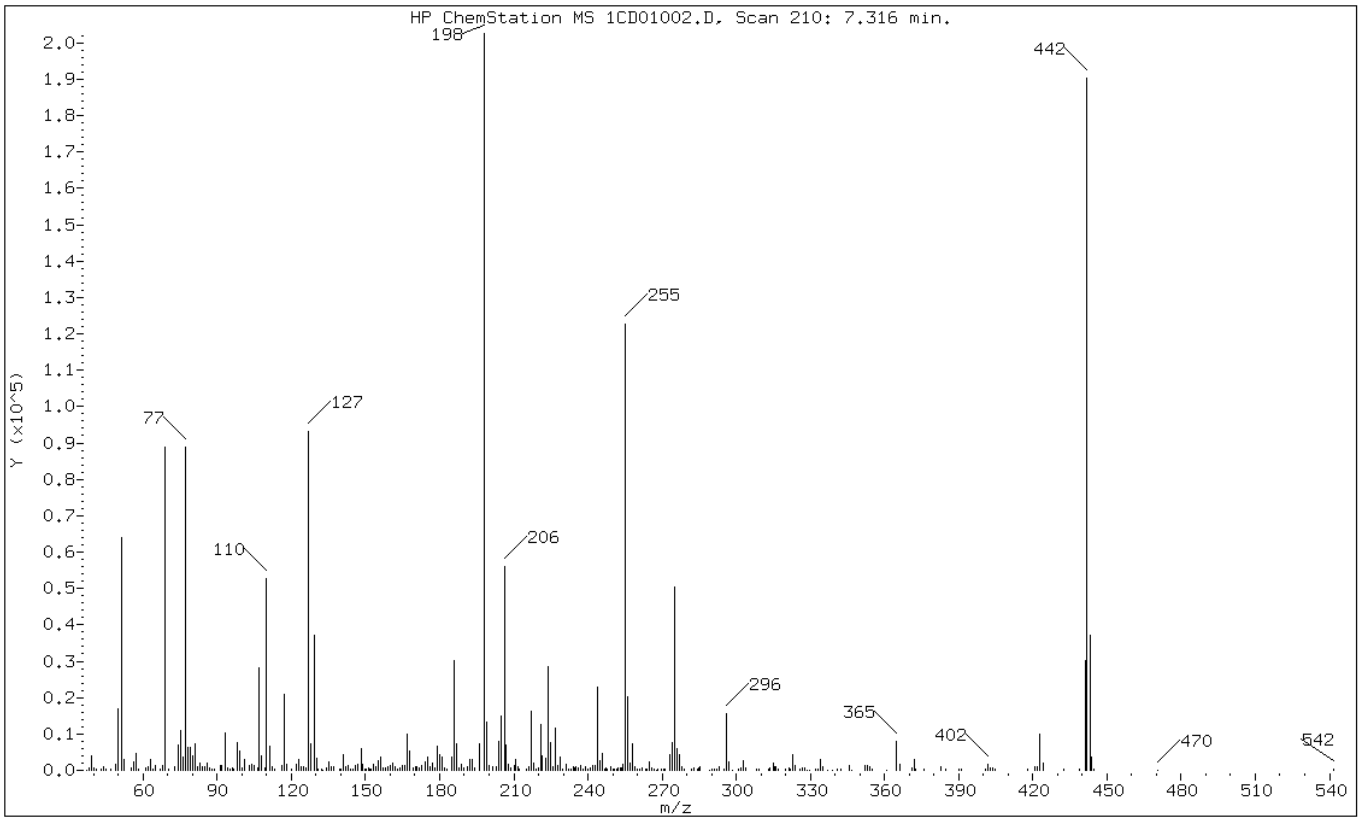
Data File: 1CD01002.D

Date: 01-APR-2013 11:14

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.57
68	Less than 2.00% of mass 69	0.70 (1.60)
69	Mass 69 relative abundance	43.80
70	Less than 2.00% of mass 69	0.18 (0.40)
127	10.00 - 80.00% of mass 198	45.94
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	93.97
199	5.00 - 9.00% of mass 198	6.55
275	10.00 - 60.00% of mass 198	24.83
365	Greater than 1.00% of mass 198	3.91
441	Present, but less than mass 443	14.93
443	15.00 - 24.00% of mass 442	18.38 (19.56)

Data File: 1CD01002.D

Date: 01-APR-2013 11:14

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01002.D
Spectrum: HP ChemStation MS 1CD01002.D, Scan 210: 7.316 min.
Location of Maximum: 198.00
Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	153	130.10	3353	210.20	1195	289.00	151
38.10	546	130.80	370	210.90	2894	290.00	313
39.10	3912	132.30	175	211.70	908	291.00	224
40.00	597	132.70	165	212.30	336	292.10	403
41.00	245	134.00	509	214.90	333	292.90	895
43.10	190	135.10	2404	216.00	988	295.00	420
44.10	1029	136.00	1137	217.00	16300	296.10	15666
44.90	348	137.00	960	218.00	2090	296.90	2296
46.90	166	139.80	351	218.90	253	298.30	150
48.90	1495	140.10	351	220.10	793	300.90	274
50.10	16792	140.90	4251	221.00	12706	302.00	585
51.10	63952	142.00	838	221.60	4045	303.00	2538
52.10	2921	143.00	1405	223.00	3416	303.90	516
55.10	664	144.10	195	224.00	28448	308.00	464
56.10	2419	145.10	233	225.10	7698	309.10	238
57.10	4564	146.10	1342	225.80	996	313.00	222
58.00	370	146.90	1823	227.00	11721	313.70	657
60.90	663	148.10	6043	227.90	1420	315.00	1924
62.10	941	149.00	1597	229.00	3775	315.70	878
63.10	3032	149.80	261	229.90	375	316.00	900
63.90	359	150.20	358	231.10	1562	316.80	302
64.20	370	151.20	812	232.00	391	320.10	172
65.00	1405	151.70	287	233.00	171	321.20	498
67.10	300	152.20	193	234.00	874	322.00	414
67.80	1419	153.00	1767	234.80	819	323.00	4402
69.00	88712	154.10	1131	235.00	830	324.00	1165
70.20	356	155.10	2579	235.90	660	326.00	241
73.00	900	156.00	3603	236.90	1162	326.80	738
74.10	6968	156.90	386	238.20	218	327.90	622
75.00	11076	157.20	507	239.00	912	328.90	152
76.10	3533	158.00	585	240.00	188	329.90	164
77.10	88880	158.90	895	241.10	724	331.90	352
78.10	6431	159.90	1310	242.10	1272	332.90	297
79.00	6257	161.10	2117	243.00	1206	334.00	3085
80.00	3843	162.00	1132	244.10	22928	334.90	1043
81.10	7286	163.00	374	245.00	2551	337.00	152
81.90	1010	164.10	728	246.00	4787	338.90	152
83.10	2029	165.10	1357	246.80	315	341.10	170
84.00	842	166.00	1402	247.30	532	342.20	316
85.10	841	167.10	9927	247.70	381	345.80	1380

86.00	1872	168.00	5238	249.00	1037	346.80	157
87.10	716	169.10	821	250.30	397	352.00	1419
87.80	313	170.20	882	250.90	266	353.00	1283
88.80	266	170.90	900	251.60	429	354.00	932
91.10	1368	171.80	602	252.00	633	355.10	235
92.00	1407	172.90	1410	253.00	572	360.70	156
93.10	10302	174.00	2475	253.40	571	365.00	7925
94.10	563	175.00	3660	254.10	1589	366.00	1792
95.10	255	175.90	1037	255.00	122672	371.00	681
96.10	531	177.00	1907	256.00	20264	372.10	3143
96.90	258	178.00	743	257.00	1980	372.80	255
98.10	7688	179.00	6488	258.10	7327	376.20	171
99.00	5316	180.00	4475	259.10	904	383.00	988
100.10	584	181.00	3648	260.10	187	384.80	359
101.00	3145	182.00	500	260.80	278	389.90	232
102.90	1395	182.80	274	262.00	511	391.10	217
104.10	1688	185.10	3543	263.60	192	400.70	411
105.10	1404	186.10	30032	264.10	226	401.90	1509
106.20	775	187.00	7248	265.00	2417	402.80	778
107.10	28072	187.90	513	266.00	768	403.90	642
108.00	3949	188.90	1656	267.00	344	404.70	242
109.20	767	190.00	599	267.70	164	417.70	173
110.00	52832	191.00	1051	268.20	181	421.00	977
111.10	6781	192.00	3091	269.90	238	422.00	1090
112.10	1106	193.00	2854	270.50	206	423.00	10085
113.00	383	194.00	766	271.10	377	424.00	1951
116.00	1267	196.00	7211	273.00	4235	432.30	244
117.00	20992	198.00	202560	274.00	7760	438.80	167
118.00	1506	199.00	13258	275.00	50288	441.10	30240
120.00	377	200.00	1463	276.00	5934	442.00	190336
122.10	1728	201.60	1145	277.00	4210	443.00	37224
123.00	3059	203.10	1102	278.00	877	443.90	3510
124.00	1026	204.10	7915	278.80	278	444.60	230
125.10	840	205.00	14856	282.00	311	470.60	163
125.70	710	206.10	56032	283.10	513	541.70	419
127.10	93064	207.00	7047	284.10	336		
128.10	7323	208.00	1693	284.80	794		
129.10	37000	208.80	525	285.20	952		

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

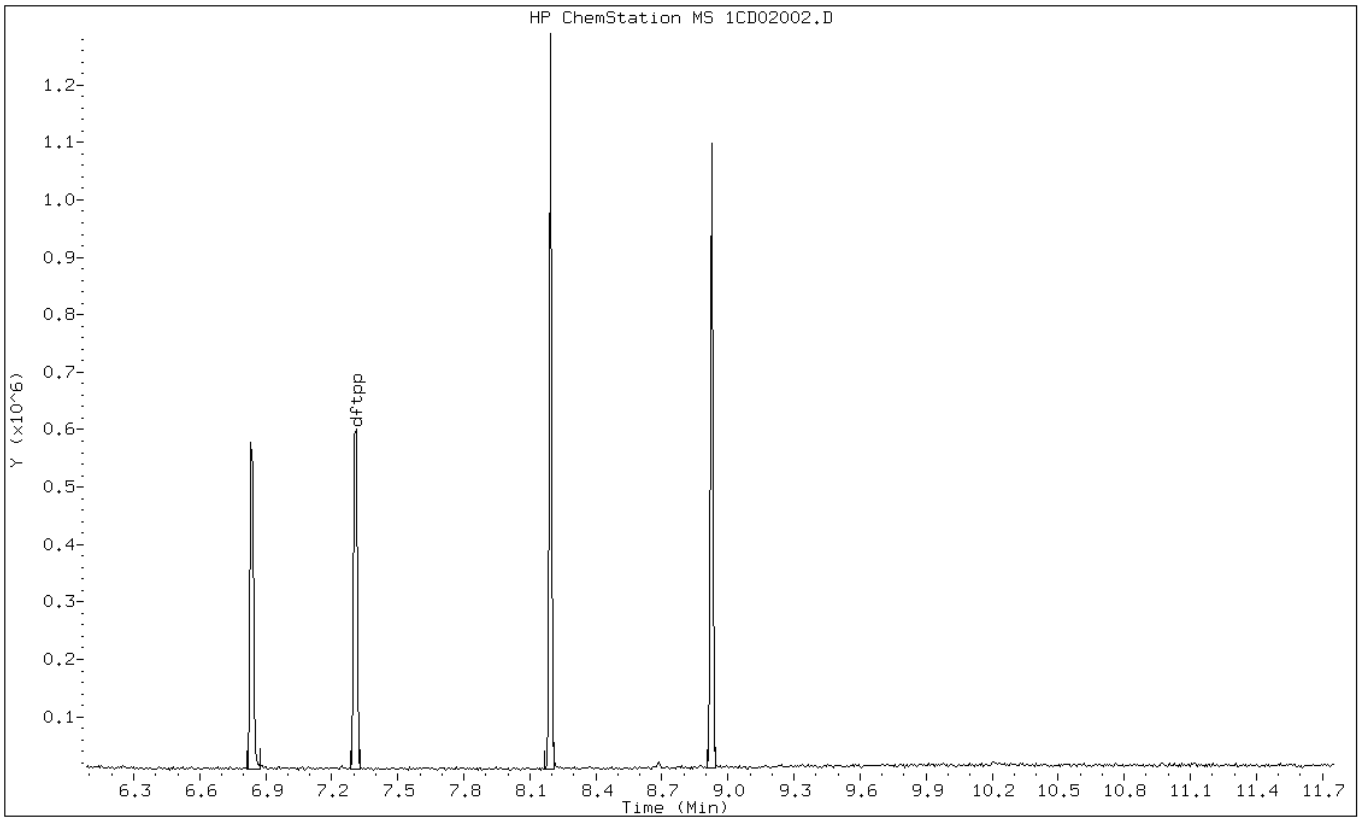
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.310	7.469	-0.159	198	70432			50.00- 0.00	100.00
7.310	7.469	-0.159	51	24576			10.00- 80.00	34.89
7.310	7.469	-0.159	68	571			0.00- 2.00	1.62
7.310	7.469	-0.159	69	35176			0.00- 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



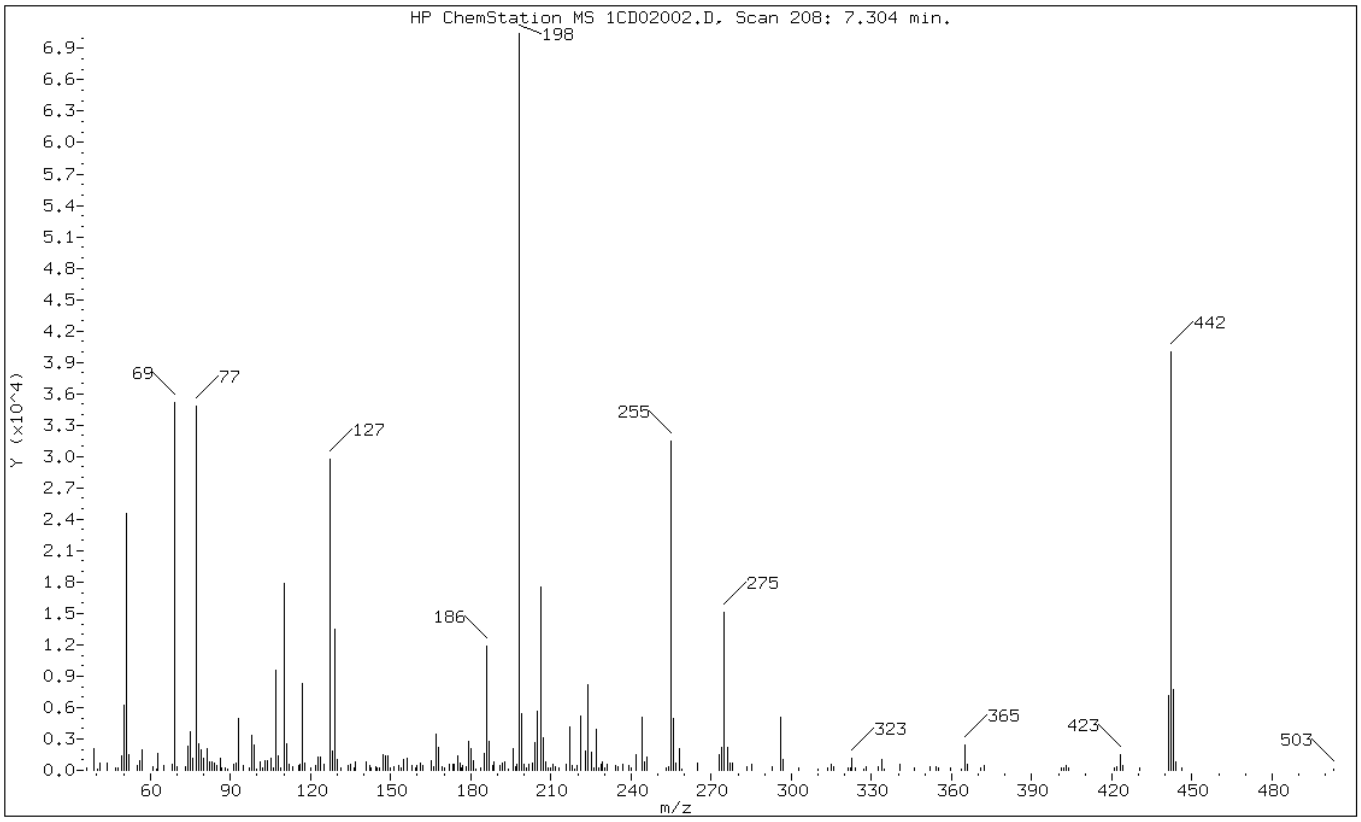
Data File: 1CD02002.D

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\1C040213.b\1CD02014.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 02-APR-2013 16:23
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: 13 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

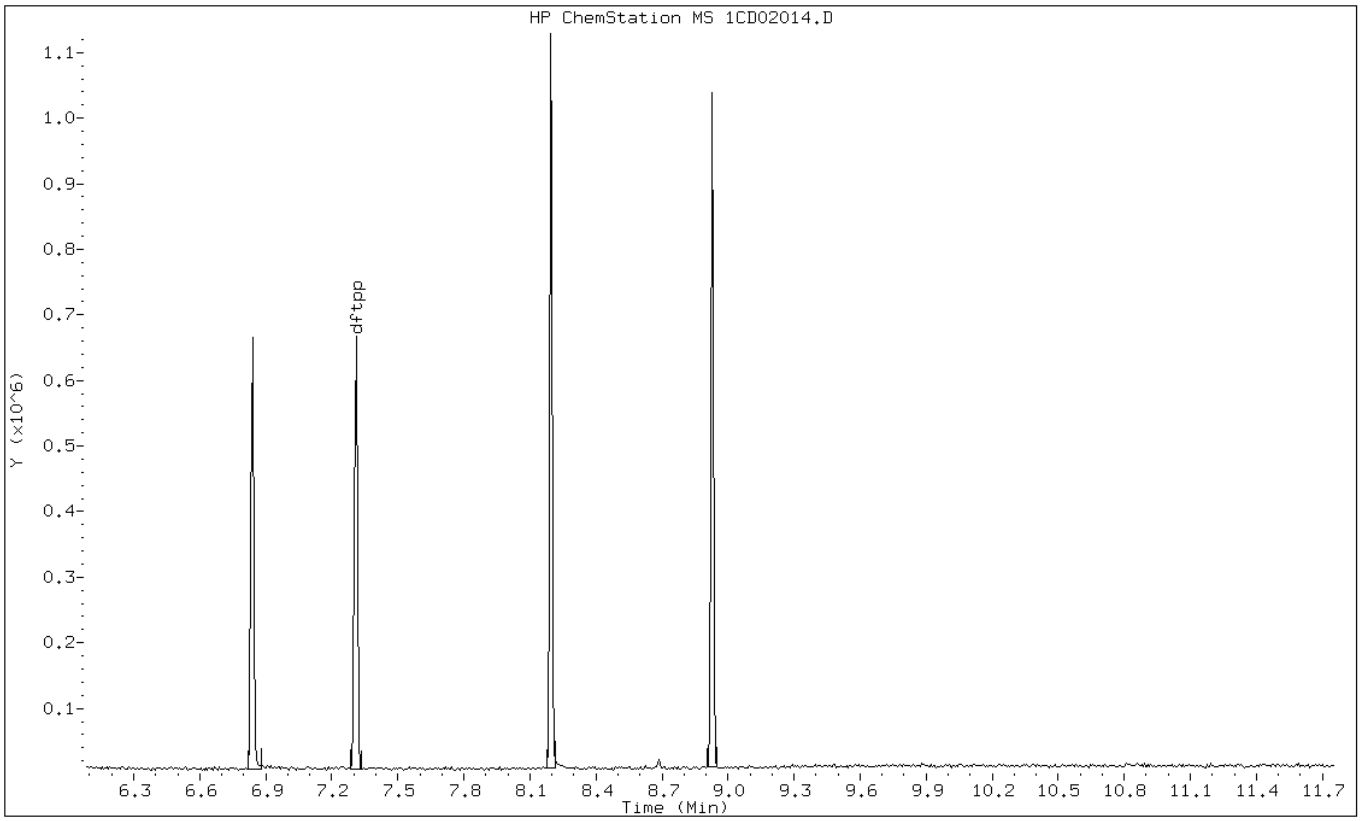
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.310	7.469	-0.159	198	73584			50.00- 0.00	100.00
7.310	7.469	-0.159	51	23816			10.00- 80.00	32.37
7.310	7.469	-0.159	68	194			0.00- 2.00	0.55
7.310	7.469	-0.159	69	35080			0.00- 0.00	47.67
7.310	7.469	-0.159	70	232			0.00- 2.00	0.66
7.310	7.469	-0.159	127	36256			10.00- 80.00	49.27
7.310	7.469	-0.159	197	676			0.00- 2.00	0.92
7.310	7.469	-0.159	442	63944			50.00- 0.00	86.90
7.310	7.469	-0.159	199	4868			5.00- 9.00	6.62
7.310	7.469	-0.159	275	17632			10.00- 60.00	23.96
7.310	7.469	-0.159	365	2684			1.00- 0.00	3.65
7.310	7.469	-0.159	441	7480			0.01- 99.99	53.25
7.310	7.469	-0.159	443	14047			15.00- 24.00	21.97

Data File: 1CD02014.D

Date: 02-APR-2013 16:23

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 | Operator: SCC



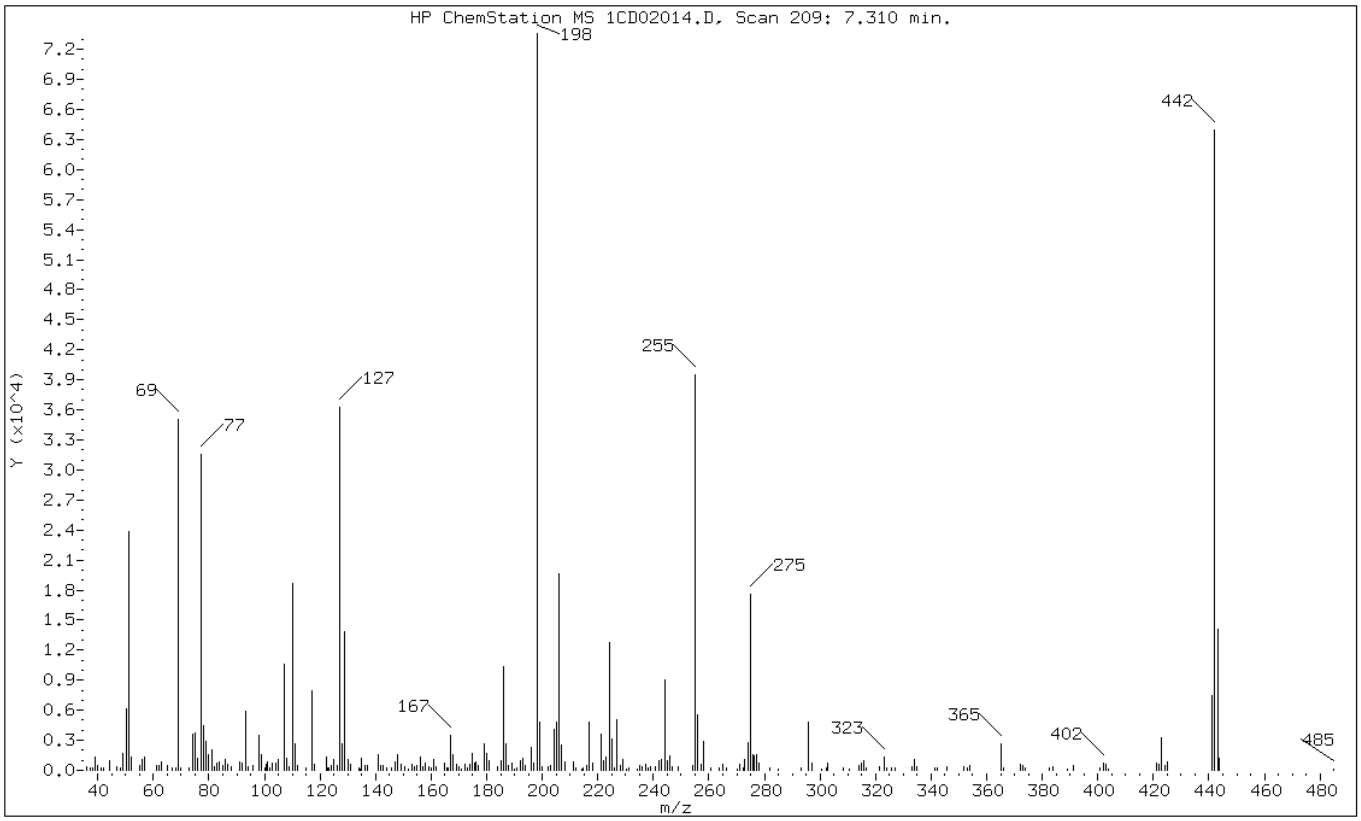
Data File: 1CD02014.D

Date: 02-APR-2013 16:23

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	32.37
68	Less than 2.00% of mass 69	0.26 (0.55)
69	Mass 69 relative abundance	47.67
70	Less than 2.00% of mass 69	0.32 (0.66)
127	10.00 - 80.00% of mass 198	49.27
197	Less than 2.00% of mass 198	0.92
442	Greater than 50.00% of mass 198	86.90
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 60.00% of mass 198	23.96
365	Greater than 1.00% of mass 198	3.65
441	Present, but less than mass 443	10.17
443	15.00 - 24.00% of mass 442	19.09 (21.97)

Data File: 1CD02014.D

Date: 02-APR-2013 16:23

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02014.D
Spectrum: HP ChemStation MS 1CD02014.D, Scan 209: 7.310 min.
Location of Maximum: 198.00
Number of points: 245

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	418	114.80	280	187.80	452	272.40	216
37.20	209	117.00	7921	189.00	683	273.00	1060
38.10	232	118.00	624	189.80	153	274.00	2749
39.00	1379	122.10	1319	191.00	201	275.00	17632
40.10	451	122.60	260	192.00	942	275.80	1543
41.10	248	123.10	237	193.10	1178	276.10	1470
42.10	186	124.10	439	193.90	432	277.20	1565
44.10	996	125.00	1125	196.00	2341	278.00	749
47.00	389	126.00	515	197.10	676	282.10	227
48.20	236	127.00	36256	198.00	73584	285.10	155
49.00	1671	128.00	2639	199.00	4868	293.20	275
50.10	6122	129.00	13905	199.90	363	296.00	4818
51.10	23816	130.00	1082	202.00	380	296.90	771
52.10	1372	131.20	548	203.10	500	300.60	162
55.20	424	133.90	259	204.10	4128	302.10	280
56.10	1076	134.30	180	205.00	4848	302.80	762
57.00	1269	135.00	1251	206.10	19608	308.20	203
61.00	505	136.10	493	207.00	2565	310.60	152
61.90	433	136.90	450	208.20	879	313.90	457
63.10	900	140.90	1507	211.10	821	315.00	709
65.10	453	142.00	472	212.00	181	315.90	991
67.00	290	142.90	489	214.10	152	316.70	260
68.00	194	144.10	300	214.80	299	321.20	364
69.00	35080	145.90	252	216.00	456	323.10	1302
70.00	232	147.00	811	216.90	4773	324.10	200
72.70	195	147.90	1618	218.00	720	325.90	190
73.00	247	149.00	619	221.10	3644	327.00	300
74.10	3607	150.50	330	222.00	908	332.90	322
75.00	3736	152.00	180	222.90	1270	334.10	1105
76.10	1179	153.00	608	224.10	12732	335.00	335
77.10	31536	154.10	343	225.00	3149	341.30	251
78.10	4512	155.00	424	225.90	249	342.10	183
79.00	2894	156.10	1318	227.00	5001	345.80	393
80.00	1507	157.10	374	228.00	518	351.90	355
81.00	2096	157.80	757	229.00	1044	353.10	299
82.00	371	159.00	351	230.10	172	354.00	426
83.00	705	159.90	262	231.10	181	365.00	2684
83.80	879	160.90	1143	234.00	172	366.00	281
84.90	459	161.90	345	235.00	526	372.00	645
86.00	1079	165.00	683	236.00	376	373.00	433

86.90	571	165.80	222	237.10	643	374.00	216
88.20	327	166.20	292	237.90	184	382.50	222
91.00	826	167.10	3455	239.10	374	384.00	367
92.00	703	168.00	1506	240.90	321	388.90	177
93.10	5941	169.10	592	242.00	973	391.10	423
94.20	347	170.00	391	242.90	1041	400.60	241
96.00	468	171.10	163	244.10	9004	401.90	710
98.10	3544	172.00	647	244.90	1010	403.00	546
99.00	1620	173.00	191	245.90	1419	404.00	173
100.00	262	174.10	620	246.90	375	421.10	667
100.70	626	175.00	1630	248.80	313	421.90	609
101.10	788	175.80	684	254.10	445	423.00	3224
102.00	226	176.20	796	255.00	39480	424.10	447
102.90	663	176.80	511	256.00	5597	425.10	887
104.00	757	177.10	349	257.10	604	441.00	7480
105.10	1033	179.00	2593	258.00	2943	442.00	63944
107.10	10587	179.90	1715	260.70	281	443.10	14047
108.00	1260	181.00	983	263.70	225	443.90	1249
109.00	393	183.70	311	264.90	627	484.90	150
110.00	18704	185.10	1003	266.10	236		
111.00	2615	186.10	10352	270.10	174		
112.00	450	187.10	2621	271.20	569		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-FEB-2013 11:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\d-dftpp198.m
Meth Date : 10-Feb-2013 14:41 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

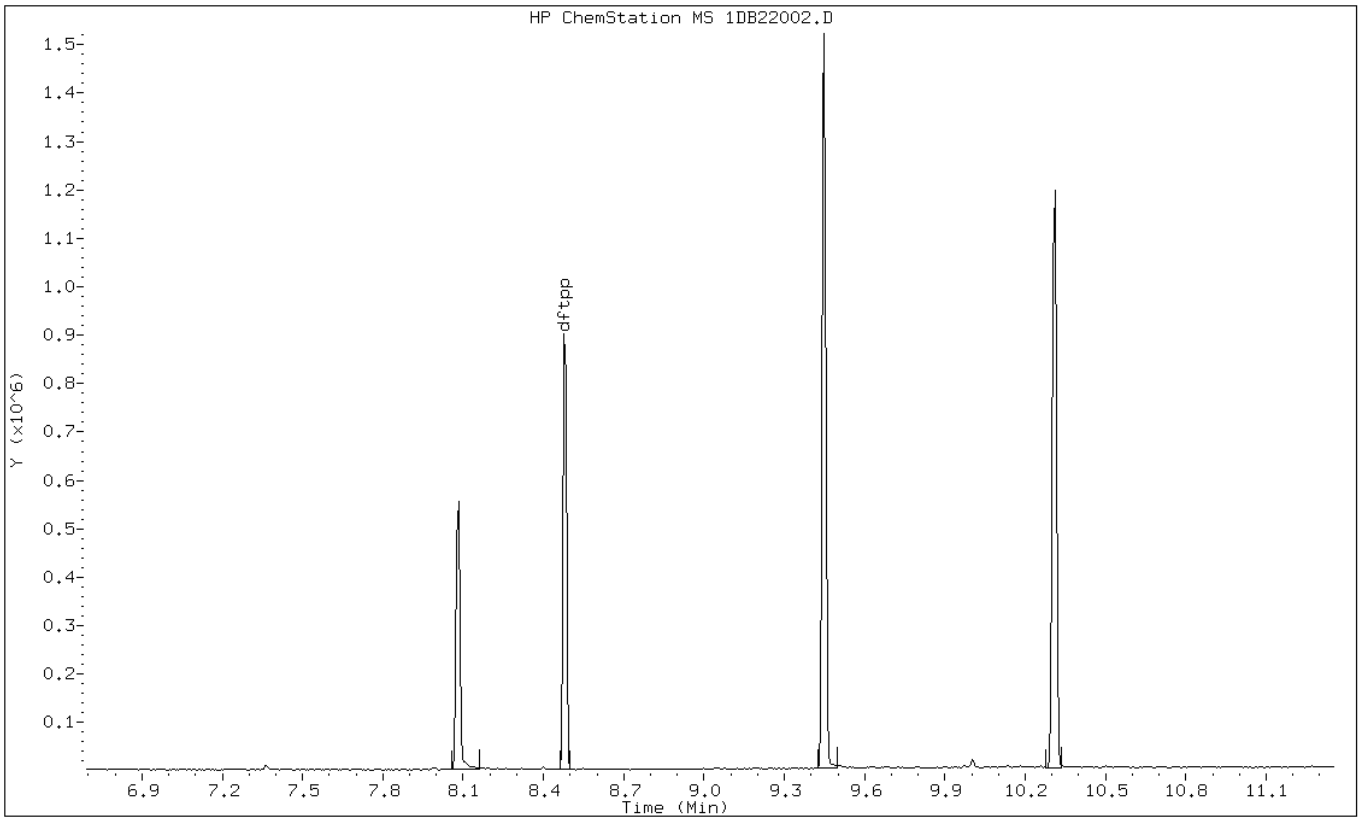
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.477	8.532	-0.055	198	100672			50.00- 0.00	100.00
8.477	8.532	-0.055	51	47200			10.00- 80.00	46.88
8.477	8.532	-0.055	68	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	69	46864			0.00- 0.00	46.55
8.477	8.532	-0.055	70	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	127	51248			10.00- 80.00	50.91
8.477	8.532	-0.055	197	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	442	64976			50.00- 0.00	64.54
8.477	8.532	-0.055	199	7983			5.00- 9.00	7.93
8.477	8.532	-0.055	275	25312			10.00- 60.00	25.14
8.477	8.532	-0.055	365	2913			1.00- 0.00	2.89
8.477	8.532	-0.055	441	10444			0.01- 99.99	78.40
8.477	8.532	-0.055	443	13322			15.00- 24.00	20.50

Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1490607 | Operator: SCC



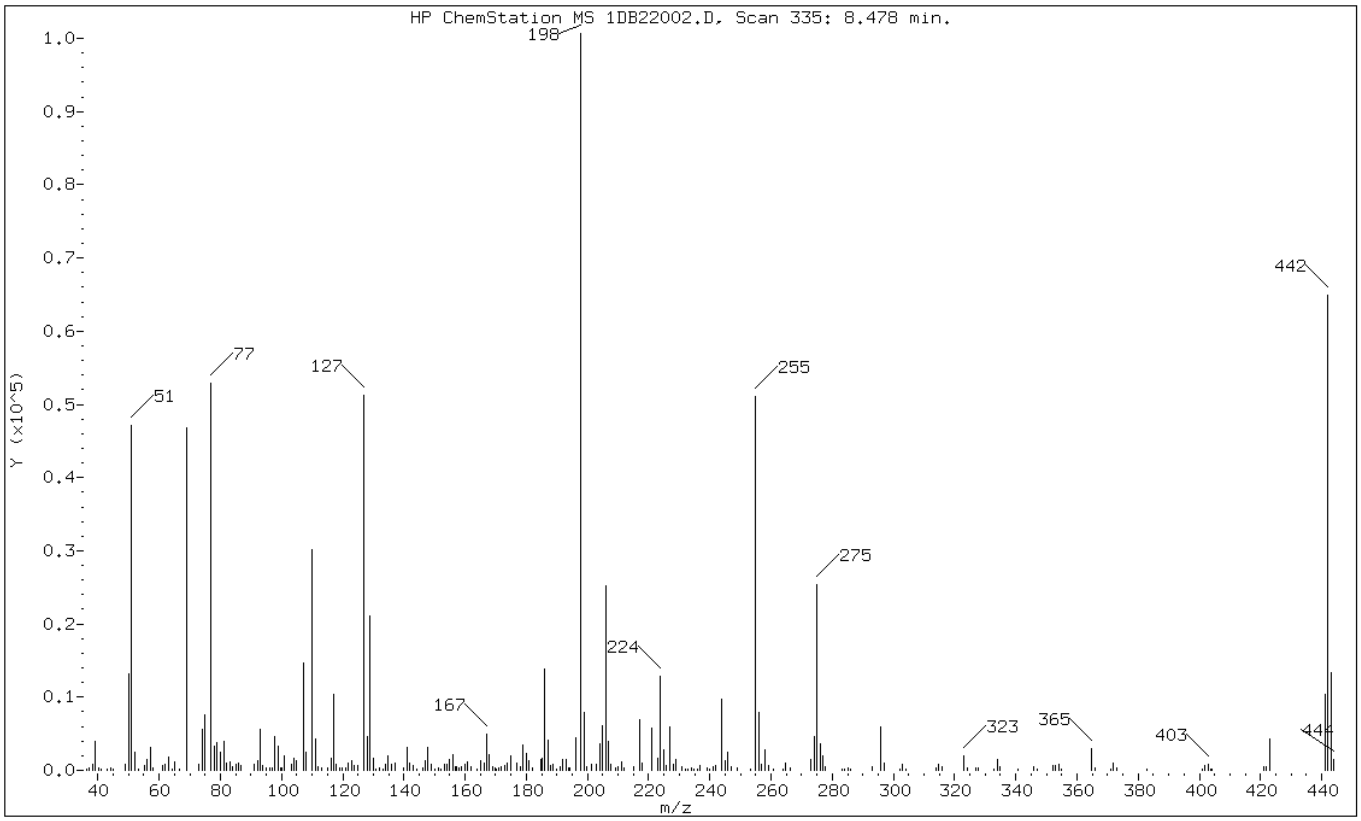
Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	46.88
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.55
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	50.91
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	64.54
199	5.00 - 9.00% of mass 198	7.93
275	10.00 - 60.00% of mass 198	25.14
365	Greater than 1.00% of mass 198	2.89
441	Present, but less than mass 443	10.37
443	15.00 - 24.00% of mass 442	13.23 (20.50)

Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22002.D
Spectrum: HP ChemStation MS 1DB22002.D, Scan 335: 8.478 min.
Location of Maximum: 197.90
Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.30	197	115.20	371	178.90	3443	257.00	823
37.00	283	116.10	1643	179.90	2267	257.90	2744
38.10	840	116.90	10345	180.90	1276	259.10	649
39.00	4029	117.90	808	182.10	256	260.60	181
40.10	307	118.90	290	184.90	1563	263.80	188
41.10	246	119.90	325	185.10	1576	264.90	958
43.00	222	120.80	293	186.00	13856	266.30	296
44.00	324	121.90	933	187.00	4060	273.10	1415
45.00	187	123.10	1272	188.00	700	274.00	4623
48.90	792	123.90	596	188.90	880	274.90	25312
50.00	13120	124.90	657	190.00	174	276.00	3568
51.00	47200	127.00	51248	191.10	471	276.90	1899
52.00	2399	128.10	4539	191.80	1499	277.90	482
53.20	206	129.00	21144	193.10	1492	283.10	239
55.10	588	129.90	1625	193.80	298	284.00	158
56.00	1454	130.90	232	194.10	273	285.10	390
57.00	3139	132.00	372	196.00	4461	285.90	196
58.00	280	133.10	193	197.90	100672	292.90	454
61.00	695	134.00	786	198.90	7983	295.90	5925
62.00	830	134.90	1968	199.80	431	296.90	1054
63.00	1811	136.00	819	201.40	803	302.00	199
64.10	190	137.00	946	202.90	742	303.00	877
65.00	1083	139.80	261	204.00	3564	304.10	237
66.80	165	140.90	3120	204.90	6035	314.00	370
69.00	46864	141.90	907	206.00	25272	314.90	811
73.00	834	143.00	599	207.00	3977	316.10	563
74.00	5603	144.10	205	207.80	855	323.00	2019
75.00	7619	146.20	403	209.00	292	324.00	399
77.00	52952	147.10	1400	209.90	465	326.80	356
78.10	3264	147.90	3115	211.10	1207	327.90	285
79.00	3723	149.00	769	211.80	371	333.00	245
80.00	2540	150.00	204	215.00	516	334.00	1434
81.00	3932	151.20	331	216.90	6871	334.90	449
82.00	1066	151.90	245	217.80	933	340.80	236
83.00	1122	152.20	196	221.00	5742	345.80	434
84.00	448	153.10	780	222.90	1718	346.90	155
85.00	839	154.10	760	223.90	12894	352.00	582
85.90	920	154.90	1455	225.00	2847	352.90	693
86.10	903	156.00	2222	225.80	583	354.10	794
86.90	664	156.80	423	226.90	5900	355.00	242

90.90	879	157.30	413	227.90	895	364.90	2913
92.20	1301	158.00	406	229.00	1499	365.90	407
92.90	5556	158.90	453	230.90	530	370.90	239
93.90	654	159.90	786	231.90	178	371.90	1022
95.00	306	160.80	1173	233.00	190	373.00	407
96.00	333	161.90	523	234.00	288	382.90	223
96.80	249	163.80	175	234.80	220	401.00	178
97.90	4532	164.90	1380	235.80	168	401.90	599
99.00	3290	166.10	1007	236.80	623	403.00	796
99.90	302	167.00	4901	239.10	325	403.80	179
100.10	306	167.90	2117	240.00	221	404.00	178
101.00	1934	169.00	519	241.00	419	421.00	483
103.10	838	169.90	270	242.00	691	422.00	527
103.90	1680	170.30	232	244.00	9770	422.90	4204
104.90	1266	170.90	273	245.00	1289	441.00	10444
107.00	14642	171.80	412	245.90	2407	442.00	64976
107.90	2420	172.90	636	246.90	412	443.00	13322
110.00	30136	173.90	999	249.10	305	443.90	1486
111.00	4275	175.00	1902	253.20	215		
112.00	423	176.70	1047	254.90	51056		
112.90	308	177.90	412	255.90	7928		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 28-MAR-2013 12:00
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\d-dftpp198.m
Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.394	8.532	-0.138	198	118720			50.00- 0.00	100.00
8.394	8.532	-0.138	51	44740			10.00- 80.00	37.69
8.394	8.532	-0.138	68	0	0.0	0.0	0.00- 2.00	0.00
8.394	8.532	-0.138	69	49056			0.00- 0.00	41.32
8.394	8.532	-0.138	70	0	0.0	0.0	0.00- 2.00	0.00
8.394	8.532	-0.138	127	54168			10.00- 80.00	45.63
8.394	8.532	-0.138	197	0	0.0	0.0	0.00- 2.00	0.00
8.394	8.532	-0.138	442	115172			50.00- 0.00	97.01
8.394	8.532	-0.138	199	7676			5.00- 9.00	6.47
8.394	8.532	-0.138	275	34920			10.00- 60.00	29.41
8.394	8.532	-0.138	365	4377			1.00- 0.00	3.69
8.394	8.532	-0.138	441	9468			0.01- 99.99	40.88
8.394	8.532	-0.138	443	23160			15.00- 24.00	20.11

Data File: 1DC28002.D

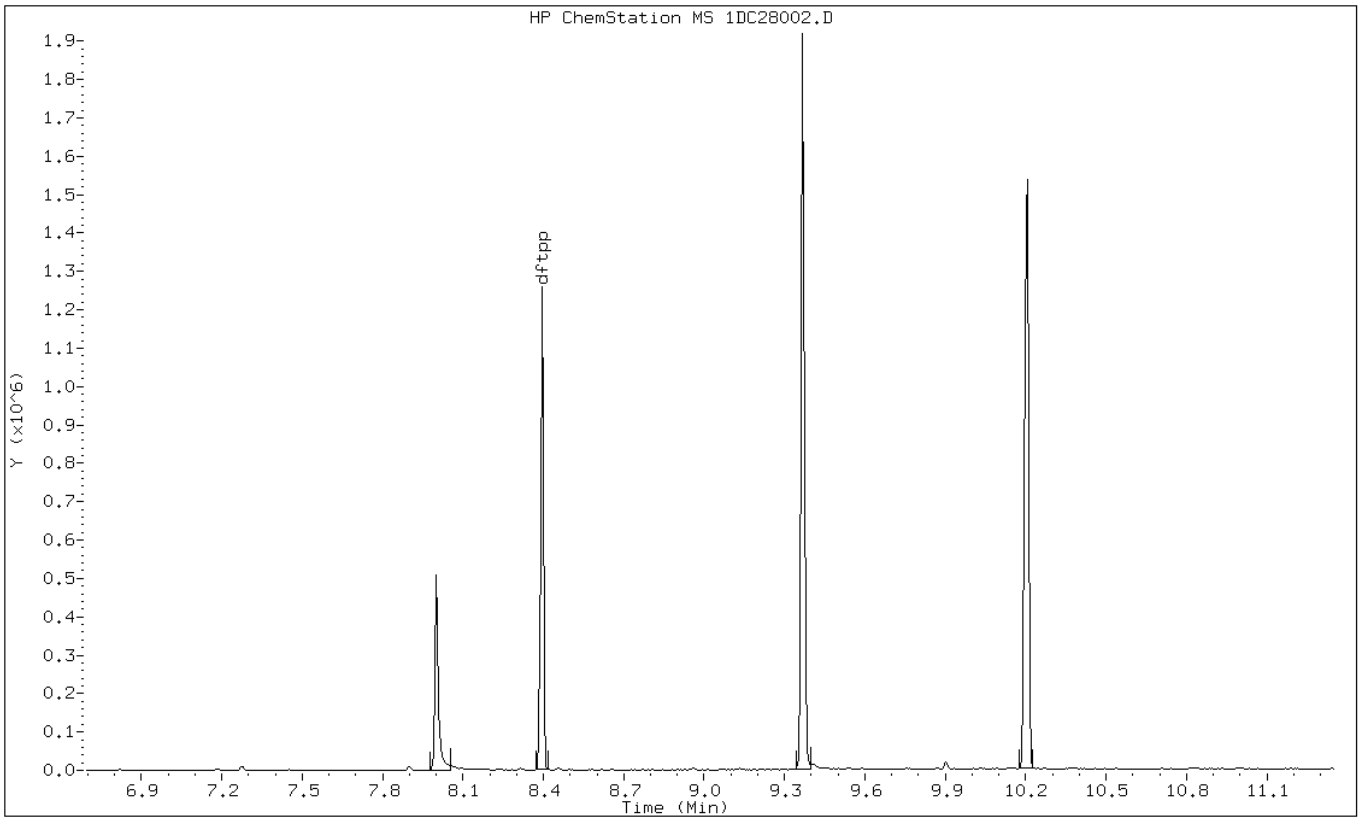
Date: 28-MAR-2013 12:00

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC



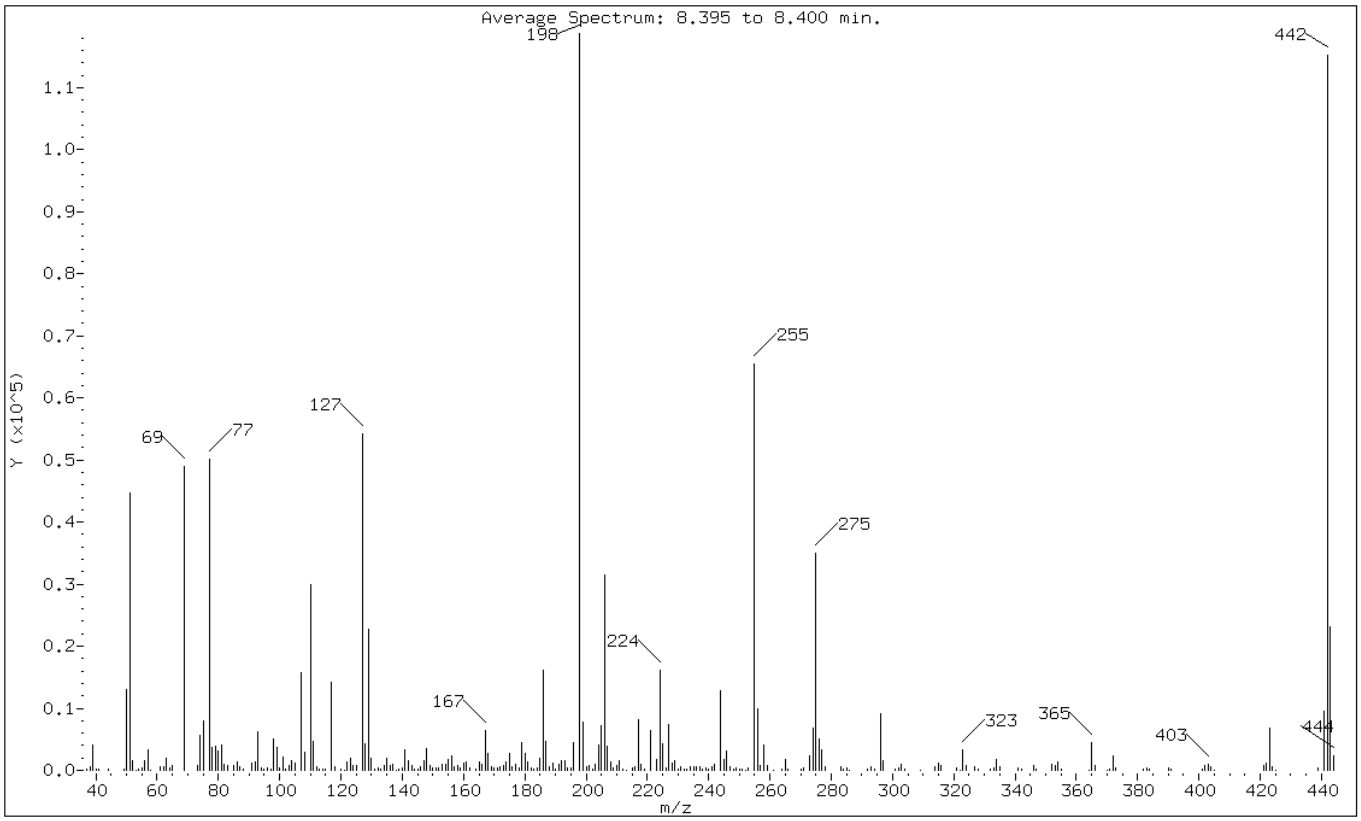
Data File: 1DC28002.D

Date: 28-MAR-2013 12:00

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1490607 | 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	37.69
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	41.32
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	45.63
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	97.01
199	5.00 - 9.00% of mass 198	6.47
275	10.00 - 60.00% of mass 198	29.41
365	Greater than 1.00% of mass 198	3.69
441	Present, but less than mass 443	7.98
443	15.00 - 24.00% of mass 442	19.51 (20.11)

Data File: 1DC28002.D

Date: 28-MAR-2013 12:00

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28002.D
Spectrum: Average Spectrum: 8.395 to 8.400 min.
Location of Maximum: 198.00
Number of points: 267

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	217	127.00	54168	195.00	316	275.00	34920
38.00	652	128.00	4364	196.00	4387	276.00	4991
39.00	4036	129.00	22792	198.00	118720	277.00	3210
40.00	249	130.00	1984	199.00	7676	278.00	511
41.00	189	131.00	212	200.00	678	283.00	505
44.00	193	132.00	329	201.00	798	284.00	178
49.00	169	133.00	286	202.00	247	285.00	401
50.00	13051	134.00	770	203.00	936	286.00	80
51.00	44736	135.00	1898	204.00	4038	292.00	115
52.00	1619	136.00	800	205.00	7153	293.00	602
53.00	82	137.00	940	206.00	31432	294.00	230
54.00	116	138.00	95	207.00	3913	296.00	9139
55.00	397	139.00	129	208.00	1327	297.00	1561
56.00	1555	140.00	368	209.00	413	301.00	106
57.00	3358	141.00	3209	210.00	802	302.00	396
58.00	89	142.00	1638	211.00	1464	303.00	1008
61.00	644	143.00	727	212.00	168	304.00	248
62.00	598	144.00	244	213.00	87	309.00	91
63.00	1870	145.00	285	215.00	456	314.00	617
64.00	327	146.00	622	216.00	676	315.00	1178
65.00	835	147.00	1555	217.00	8160	316.00	693
69.00	49056	148.00	3481	218.00	929	321.00	320
73.00	799	149.00	850	219.00	116	322.00	89
74.00	5589	150.00	445	221.00	6440	323.00	3339
75.00	7943	151.00	431	223.00	1800	324.00	775
77.00	50048	152.00	372	224.00	16072	327.00	530
78.00	3785	153.00	1000	225.00	4300	328.00	180
79.00	3961	154.00	936	226.00	410	332.00	272
80.00	3056	155.00	1774	227.00	7307	333.00	408
81.00	4001	156.00	2398	228.00	1215	334.00	1761
82.00	1061	157.00	626	229.00	1643	335.00	648
83.00	851	158.00	717	230.00	262	341.00	396
85.00	755	159.00	303	231.00	578	342.00	116
86.00	1446	160.00	1071	232.00	167	346.00	746
87.00	570	161.00	1416	233.00	129	347.00	179
88.00	264	162.00	464	234.00	565	352.00	1061
91.00	1176	164.00	196	235.00	634	353.00	757
92.00	1383	165.00	1422	236.00	490	354.00	1368
93.00	6260	166.00	1001	237.00	528	355.00	224
94.00	409	167.00	6326	238.00	99	364.00	95

95.00	102	168.00	2661	239.00	410	365.00	4377
96.00	420	169.00	594	240.00	174	366.00	788
97.00	166	170.00	417	241.00	587	370.00	97
98.00	5088	171.00	341	242.00	945	371.00	124
99.00	3660	172.00	551	244.00	12737	372.00	2344
100.00	365	173.00	743	245.00	1841	373.00	302
101.00	2082	174.00	1294	246.00	3058	382.00	153
102.00	123	175.00	2643	247.00	585	383.00	385
103.00	834	176.00	679	248.00	223	384.00	203
104.00	1633	177.00	929	249.00	336	390.00	377
105.00	1235	178.00	349	250.00	166	391.00	185
107.00	15688	179.00	4452	251.00	103	401.00	184
108.00	2877	180.00	2786	252.00	80	402.00	800
110.00	29968	181.00	1303	253.00	326	403.00	989
111.00	4724	182.00	465	255.00	65424	404.00	488
112.00	584	183.00	181	256.00	9977	405.00	86
113.00	263	184.00	295	257.00	710	421.00	728
114.00	107	185.00	1993	258.00	4066	422.00	1154
115.00	127	186.00	16075	259.00	814	423.00	6892
117.00	14220	187.00	4686	261.00	91	424.00	679
118.00	528	188.00	583	264.00	275	425.00	78
120.00	261	189.00	1083	265.00	1775	439.00	335
121.00	82	190.00	137	266.00	201	441.00	9468
122.00	1266	191.00	1001	270.00	104	442.00	115168
123.00	1908	192.00	1500	271.00	436	443.00	23160
124.00	705	193.00	1628	273.00	2348	444.00	2266
125.00	810	194.00	385	274.00	6735		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88632-2
SDG No.: 68088632-2
Client Sample ID:
Lab Sample ID: MB 660-135822/1-A
Matrix: Solid
Lab File ID: 1DC28011.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/27/2013 11:19
Sample wt/vol: 15.15(g)
Date Analyzed: 03/28/2013 15:42
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 136038
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28011.D
Lab Smp Id: MB 660-135822/1-A
Inj Date : 28-MAR-2013 15:42
Operator : SCC Inst ID: BSMSD.i
Smp Info : MB 660-135822/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m
Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 11 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	15.150	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

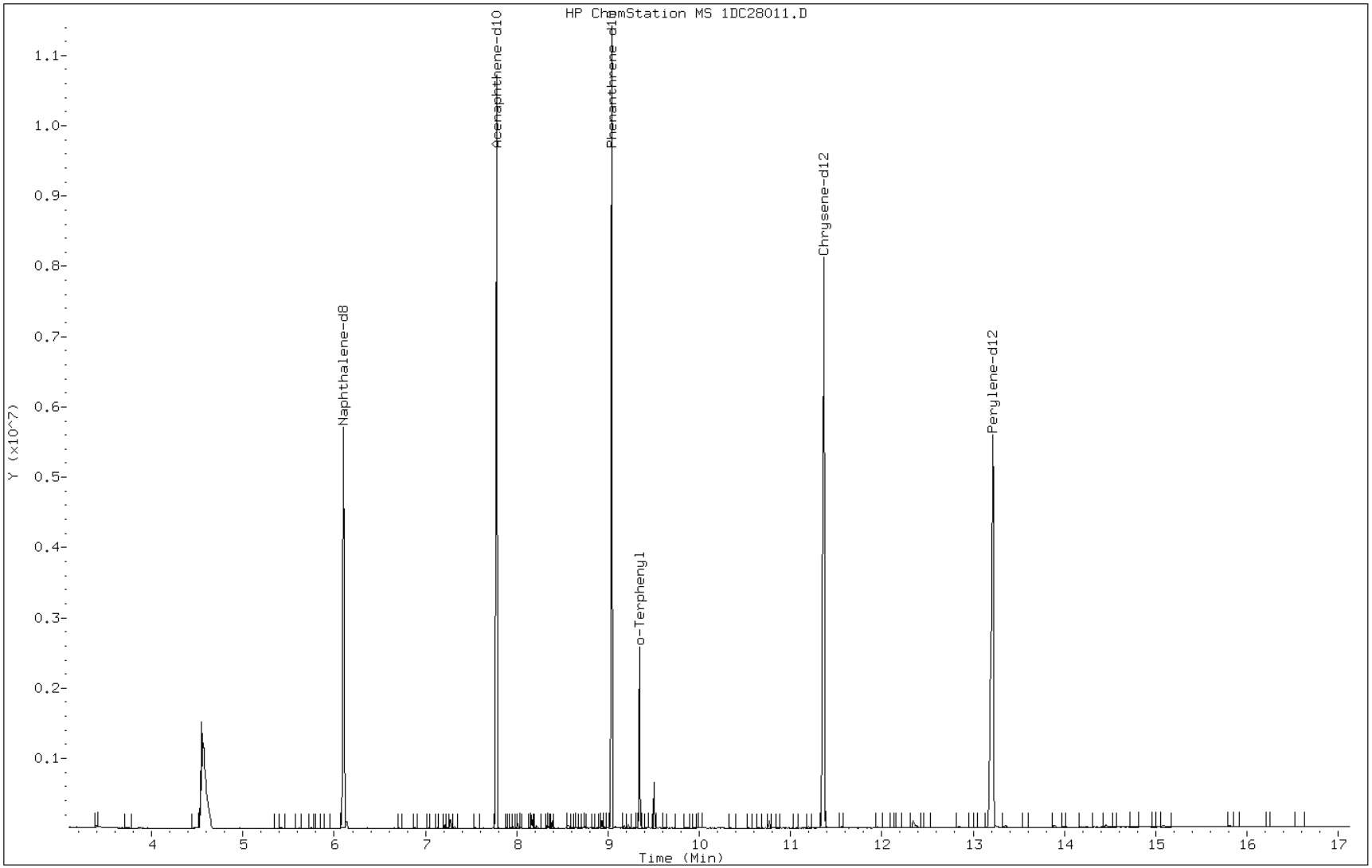
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.102	6.102	(1.000)	3397993	40.0000	
* 6 Acenaphthene-d10	164	7.776	7.777	(1.000)	2207708	40.0000	
* 9 Phenanthrene-d10	188	9.040	9.040	(1.000)	3627662	40.0000	
$ 13 o-Terphenyl	230	9.345	9.351	(1.034)	366541	6.53391	430
* 17 Chrysene-d12	240	11.366	11.373	(1.000)	3652900	40.0000	
* 22 Perylene-d12	264	13.217	13.223	(1.000)	3883149	40.0000	

Data File: 1DC28011.D

Date: 28-MAR-2013 15:42

Client ID: Instrument: BSMSD.i

Sample Info: MB 660-135822/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88632-2
SDG No.: 68088632-2
Client Sample ID:
Lab Sample ID: MB 660-135843/1-A
Matrix: Solid
Lab File ID: 1CD01013.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/27/2013 15:04
Sample wt/vol: 15.09(g)
Date Analyzed: 04/01/2013 14:52
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.: 135996
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	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	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	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	60		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01013.D
Lab Smp Id: mb 660-135843/1-a
Inj Date : 01-APR-2013 14:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-135843/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.090	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

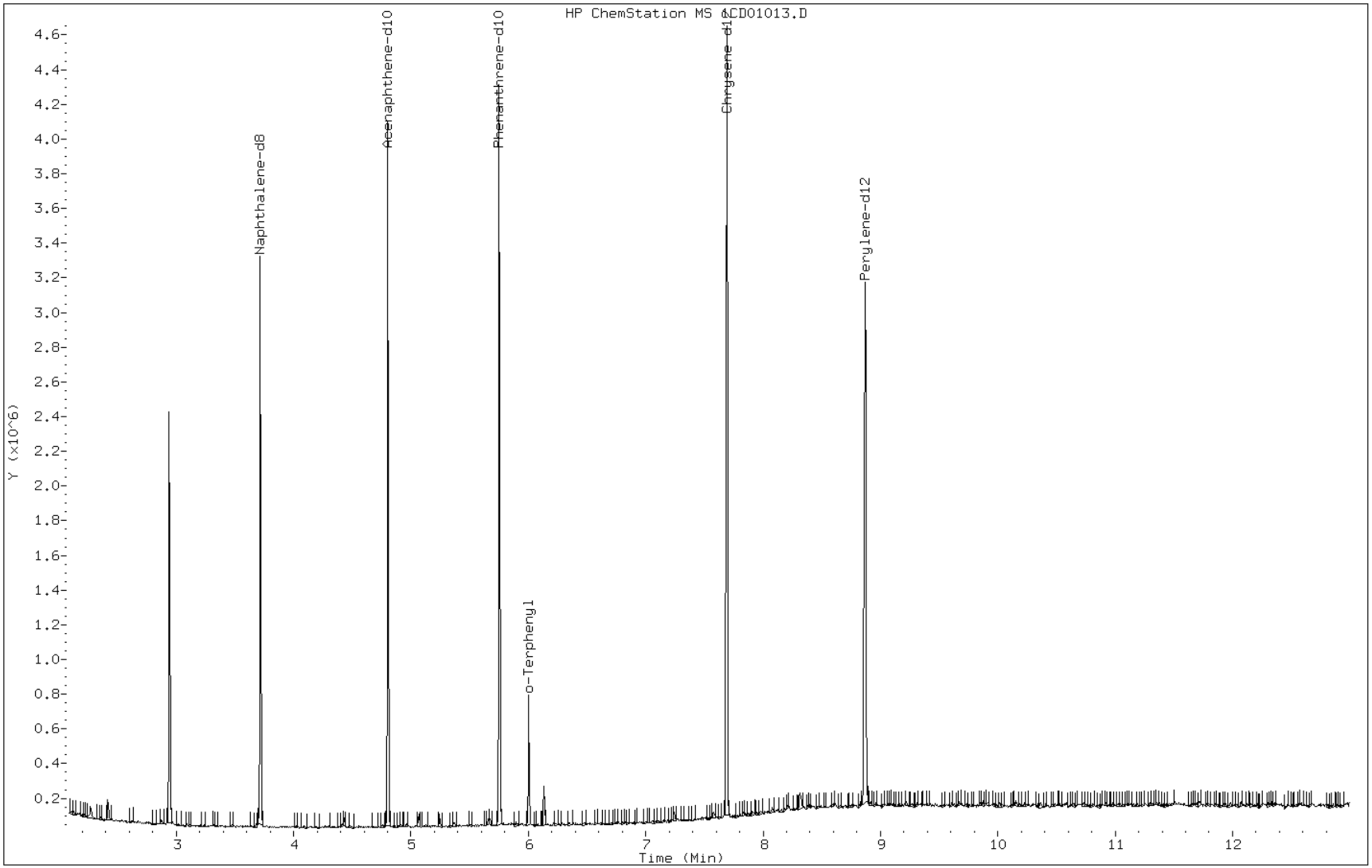
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.715	3.716	(1.000)	615973	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	487906	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	918261	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	82889	5.97865	396.1991
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1067842	40.0000	
* 23 Perylene-d12	264	8.868	8.886	(1.000)	1091075	40.0000	

Data File: 1CD01013.D

Date: 01-APR-2013 14:52

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-135843/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88632-2
SDG No.: 68088632-2
Client Sample ID:
Lab Sample ID: MB 660-135924/1-A
Matrix: Solid
Lab File ID: 1CD02026.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/29/2013 10:19
Sample wt/vol: 15.12(g)
Date Analyzed: 04/02/2013 20:01
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.: 136079
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02026.D
Lab Smp Id: mb 660-135924/1-a
Inj Date : 02-APR-2013 20:01
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-135924/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 25 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

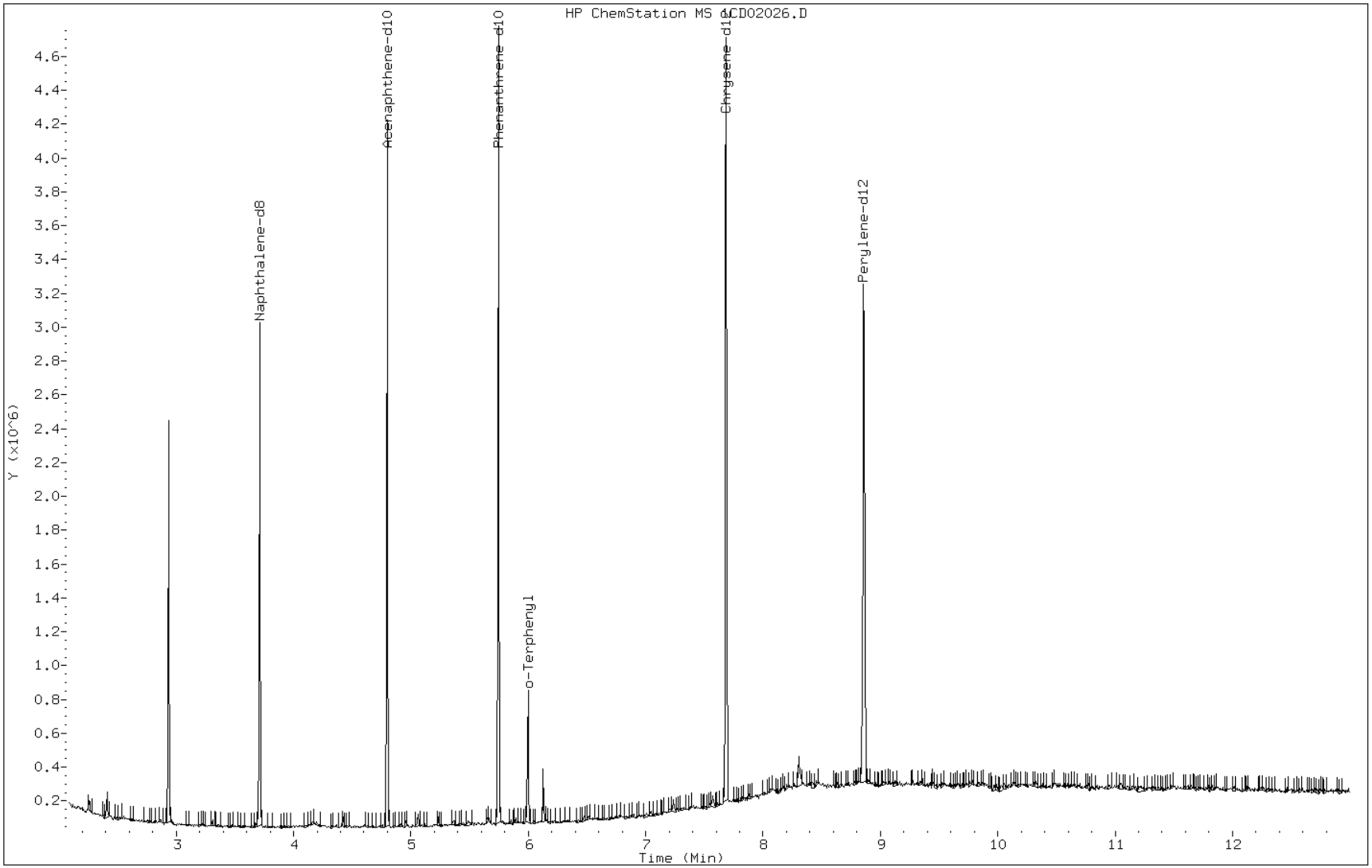
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	569471	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	504679	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	959879	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	85443	6.17889	408.6565
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1168702	40.0000	
* 23 Perylene-d12	264	8.857	8.862	(1.000)	1102080	40.0000	

Data File: 1CD02026.D

Date: 02-APR-2013 20:01

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-135924/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: | Lab Sample ID: LCS 660-135822/2-A

Matrix: Solid | Lab File ID: 1DC28012.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/27/2013 11:19

Sample wt/vol: 14.93(g) | Date Analyzed: 03/28/2013 16:05

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.: 136038 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	455		100	20
208-96-8	Acenaphthylene	472		40	5.0
120-12-7	Anthracene	464		8.4	4.2
56-55-3	Benzo[a]anthracene	520		8.0	3.9
50-32-8	Benzo[a]pyrene	459		10	5.2
205-99-2	Benzo[b]fluoranthene	503		12	6.1
191-24-2	Benzo[g,h,i]perylene	486		20	4.4
207-08-9	Benzo[k]fluoranthene	484		8.0	3.6
218-01-9	Chrysene	464		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	527		20	4.1
206-44-0	Fluoranthene	488		20	4.0
86-73-7	Fluorene	491		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	469		20	7.1
90-12-0	1-Methylnaphthalene	512		40	4.4
91-57-6	2-Methylnaphthalene	499		40	7.1
91-20-3	Naphthalene	470		40	4.4
85-01-8	Phenanthrene	461		8.0	3.9
129-00-0	Pyrene	464		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28012.D
Lab Smp Id: LCS 660-135822/2-A
Inj Date : 28-MAR-2013 16:05
Operator : SCC Inst ID: BSMSD.i
Smp Info : LCS 660-135822/2-A
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m
Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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/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	14.930	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.101	6.102	(1.000)	3559975	40.0000	
* 6 Acenaphthene-d10	164	7.781	7.777	(1.000)	2302268	40.0000	
* 9 Phenanthrene-d10	188	9.039	9.040	(1.000)	3843730	40.0000	
$ 13 o-Terphenyl	230	9.344	9.351	(1.034)	415472	6.98983	470
* 17 Chrysene-d12	240	11.371	11.373	(1.000)	3972248	40.0000	
* 22 Perylene-d12	264	13.222	13.223	(1.000)	4089168	40.0000	
2 Naphthalene	128	6.119	6.126	(1.003)	668703	7.02185	470
3 2-Methylnaphthalene	142	6.824	6.825	(1.118)	452308	7.45602	500
4 1-Methylnaphthalene	142	6.918	6.919	(1.134)	434436	7.64755	510
5 Acenaphthylene	152	7.646	7.653	(0.983)	715235	7.04656	470
7 Acenaphthene	154	7.805	7.806	(1.003)	420804	6.79944	460
8 Fluorene	166	8.246	8.247	(1.060)	530243	7.33307	490
10 Phenanthrene	178	9.056	9.064	(1.002)	750419	6.87759	460
11 Anthracene	178	9.097	9.099	(1.006)	755524	6.92076	460

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.233	9.240	(1.021)	542920	5.56321	370
14 Fluoranthene	202	10.038	10.045	(1.110)	828971	7.28028	490
15 Pyrene	202	10.226	10.233	(0.899)	852836	6.92150	460
16 Benzo(a)anthracene	228	11.342	11.349	(0.997)	844887	7.76898	520
18 Chrysene	228	11.389	11.396	(1.002)	777008	6.92061	460
19 Benzo(b)fluoranthene	252	12.658	12.671	(0.957)	790645	7.51175	500
20 Benzo(k)fluoranthene	252	12.693	12.712	(0.960)	796651	7.22882	480
21 Benzo(a)pyrene	252	13.110	13.124	(0.992)	713504	6.85022	460
23 Indeno(1,2,3-cd)pyrene	276	14.803	14.827	(1.120)	777532	6.99499	470(M)
24 Dibenzo(a,h)anthracene	278	14.832	14.863	(1.122)	807453	7.86571	530
25 Benzo(g,h,i)perylene	276	15.249	15.280	(1.153)	769468	7.26049	490

QC Flag Legend

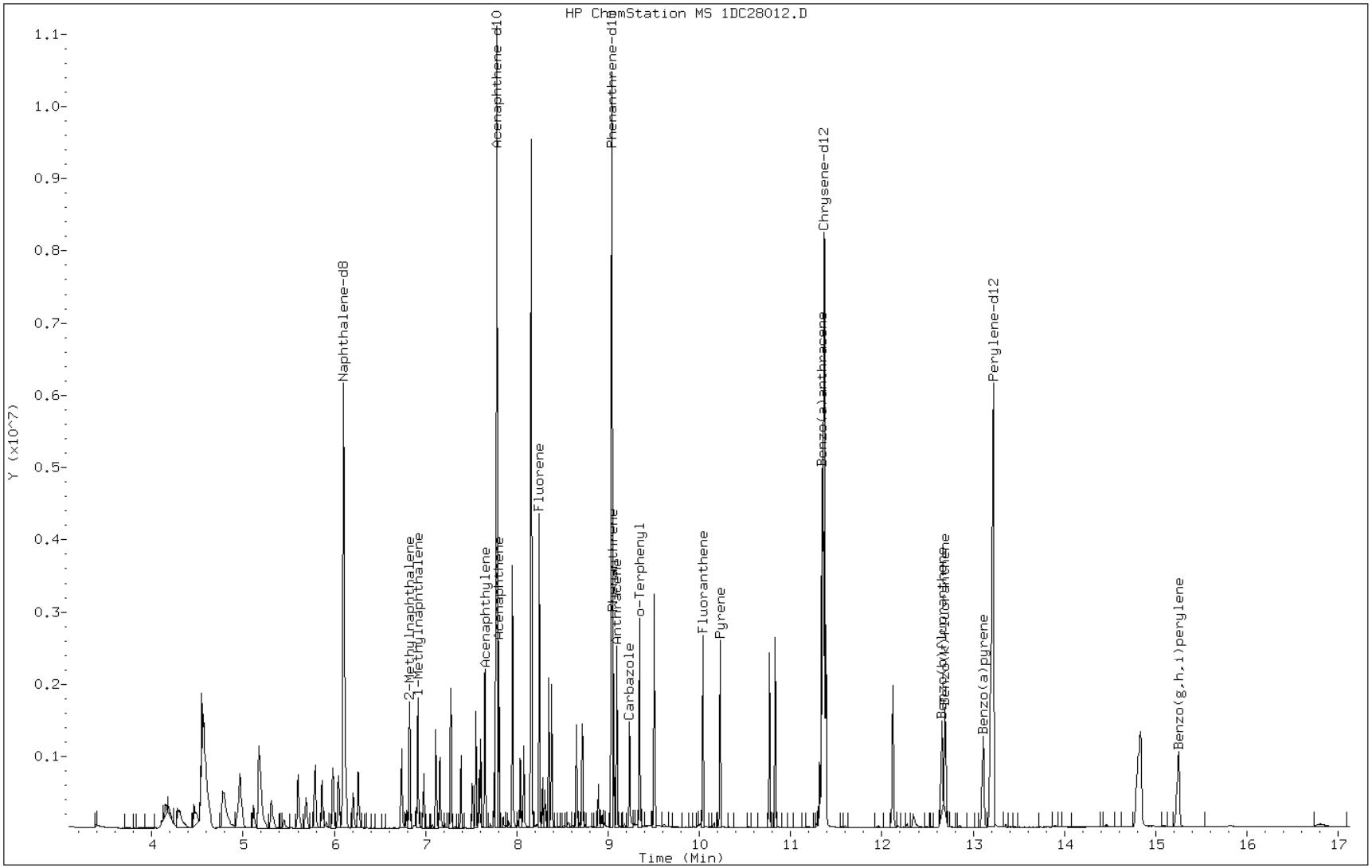
M - Compound response manually integrated.

Data File: 1DC28012.D

Date: 28-MAR-2013 16:05

Client ID: Instrument: BSMSD.i

Sample Info: LCS 660-135822/2-A Operator: SCC



Manual Integration Report

Data File: 1DC28012.D
Inj. Date and Time: 28-MAR-2013 16:05
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

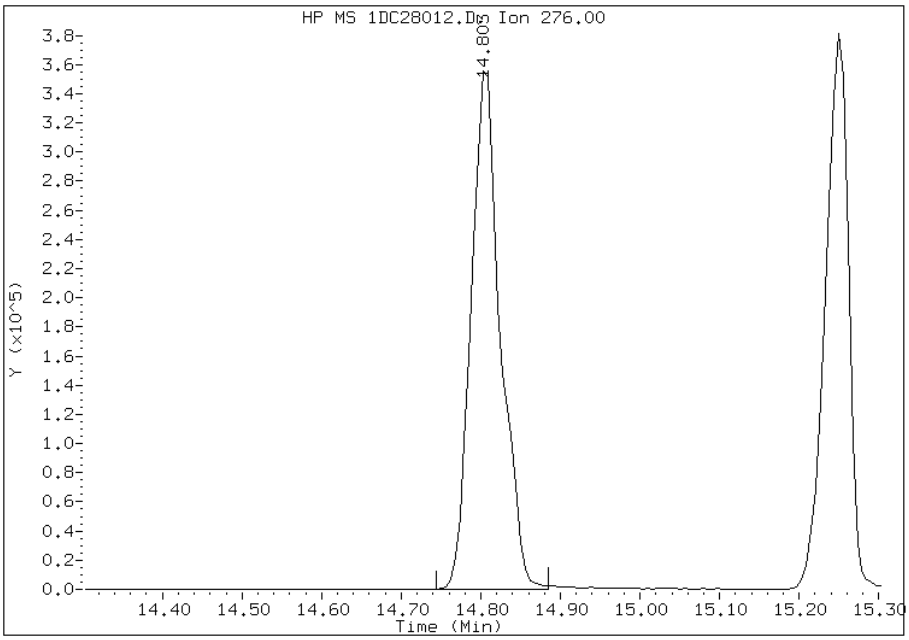
Processing Integration Results

RT: 14.80

Response: 908448

Amount: 8

Conc: 547



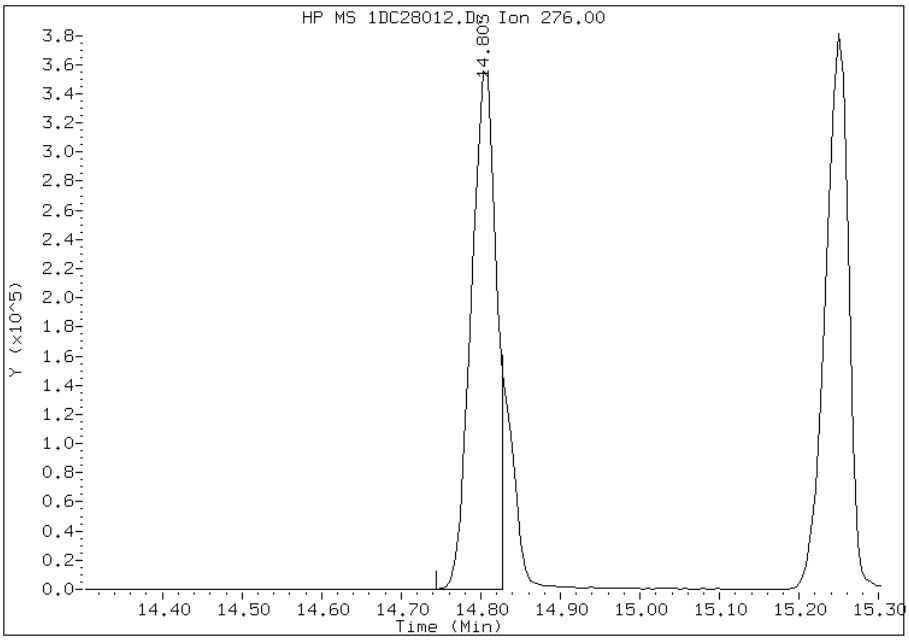
Manual Integration Results

RT: 14.80

Response: 777532

Amount: 7

Conc: 469



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 13:49
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88632-2
SDG No.: 68088632-2
Client Sample ID:
Lab Sample ID: LCS 660-135843/2-A
Matrix: Solid
Lab File ID: 1CD01014.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/27/2013 15:04
Sample wt/vol: 14.96(g)
Date Analyzed: 04/01/2013 15:10
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.: 135996
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	495		100	20
208-96-8	Acenaphthylene	547		40	5.0
120-12-7	Anthracene	519		8.4	4.2
56-55-3	Benzo[a]anthracene	536		8.0	3.9
50-32-8	Benzo[a]pyrene	483		10	5.2
205-99-2	Benzo[b]fluoranthene	481		12	6.1
191-24-2	Benzo[g,h,i]perylene	477		20	4.4
207-08-9	Benzo[k]fluoranthene	573		8.0	3.6
218-01-9	Chrysene	497		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	499		20	4.1
206-44-0	Fluoranthene	548		20	4.0
86-73-7	Fluorene	536		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	511		20	7.1
90-12-0	1-Methylnaphthalene	593		40	4.4
91-57-6	2-Methylnaphthalene	577		40	7.1
91-20-3	Naphthalene	539		40	4.4
85-01-8	Phenanthrene	518		8.0	3.9
129-00-0	Pyrene	556		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01014.D
Lab Smp Id: lcs 660-135843/2-a
Inj Date : 01-APR-2013 15:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-135843/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.716	3.716	(1.000)	624323	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	524237	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	955931	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	117222	8.12184	542.9040
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1186437	40.0000	
* 23 Perylene-d12	264	8.868	8.886	(1.000)	1208573	40.0000	
2 Naphthalene	128	3.727	3.733	(1.003)	131097	8.06578	539.1561
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	93536	8.62736	576.6951
4 1-Methylnaphthalene	142	4.221	4.222	(1.136)	87581	8.86961	592.8885
5 Acenaphthylene	152	4.716	4.716	(0.982)	173082	8.18913	547.4014
7 Acenaphthene	154	4.827	4.827	(1.005)	97191	7.39829	494.5381
9 Fluorene	166	5.145	5.145	(1.071)	133272	8.02164	536.2056
11 Phenanthrene	178	5.768	5.768	(1.003)	214345	7.75452	518.3502
12 Anthracene	178	5.804	5.804	(1.009)	210003	7.76839	519.2772

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.910	5.910	(1.028)	185129	7.70393	514.9684
15 Fluoranthene	202	6.604	6.604	(1.148)	248150	8.19773	547.9767
16 Pyrene	202	6.768	6.774	(0.880)	265159	8.31642	555.9104
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	274507	8.01647	535.8604
19 Chrysene	228	7.709	7.715	(1.002)	254743	7.43372	496.9062
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.962)	227489	7.20255	481.4539
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.964)	277741	8.57204	572.9974
22 Benzo(a)pyrene	252	8.815	8.827	(0.994)	221479	7.21926	482.5709
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.039	(1.130)	220757	7.64920	511.3098(M)
25 Dibenzo(a,h)anthracene	278	10.039	10.056	(1.132)	210527	7.45775	498.5126
26 Benzo(g,h,i)perylene	276	10.362	10.386	(1.168)	215210	7.12848	476.5029

QC Flag Legend

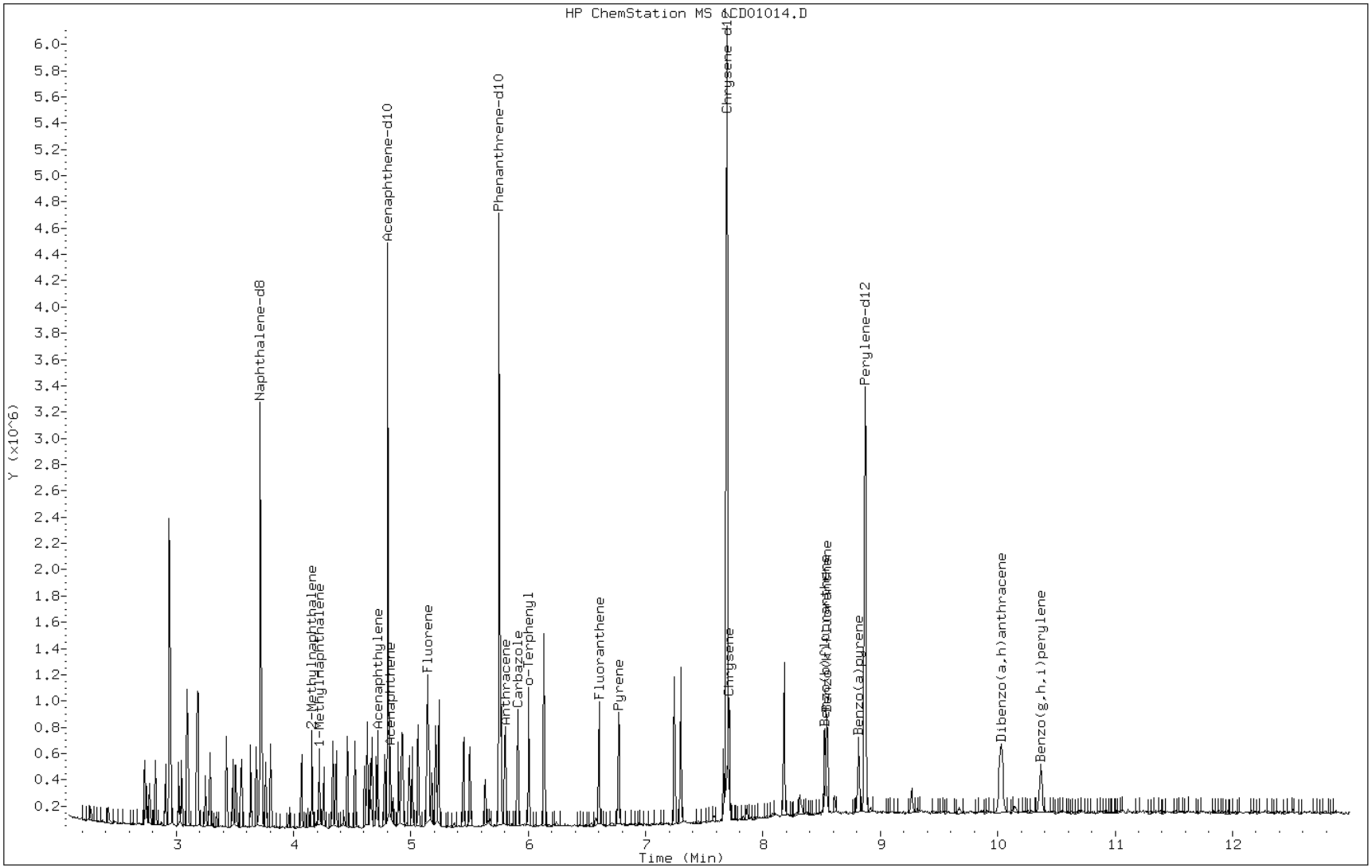
M - Compound response manually integrated.

Data File: 1CD01014.D

Date: 01-APR-2013 15:10

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-135843/2-a Operator: SCC



Manual Integration Report

Data File: 1CD01014.D
Inj. Date and Time: 01-APR-2013 15:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

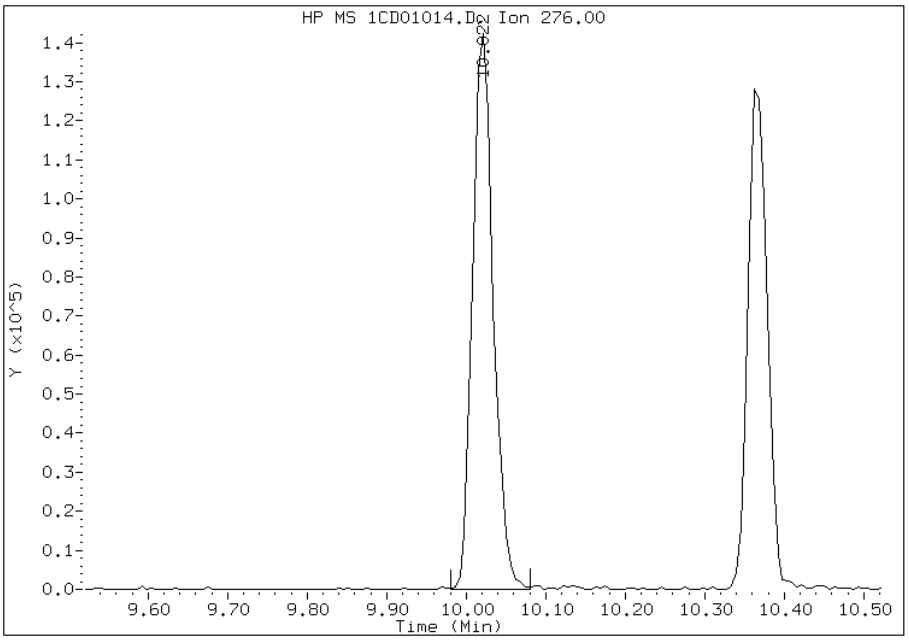
Processing Integration Results

RT: 10.02

Response: 255670

Amount: 9

Conc: 592



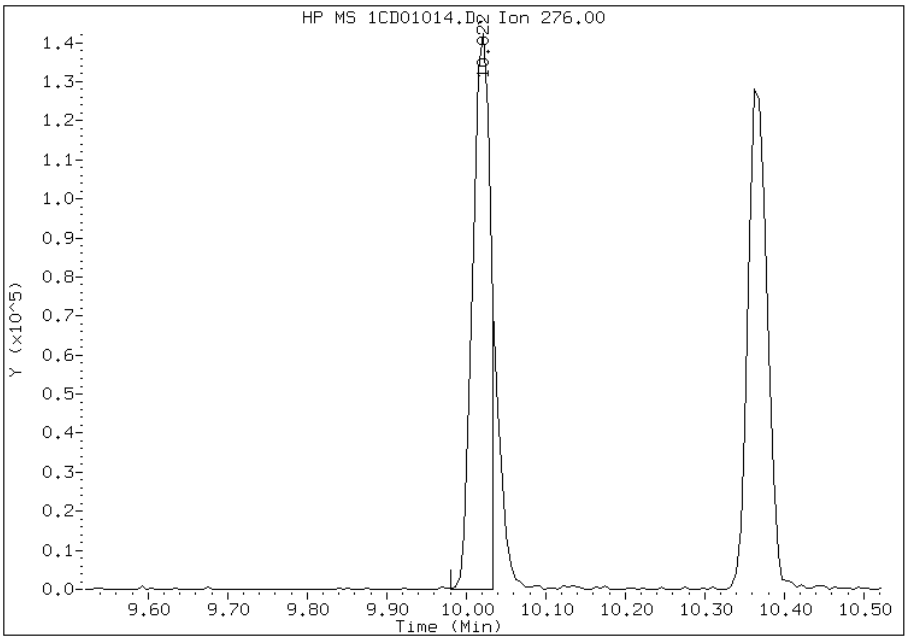
Manual Integration Results

RT: 10.02

Response: 220757

Amount: 8

Conc: 511



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:16
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88632-2
SDG No.: 68088632-2
Client Sample ID:
Lab Sample ID: LCS 660-135924/2-A
Matrix: Solid
Lab File ID: 1CD02027.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/29/2013 10:19
Sample wt/vol: 15.01(g)
Date Analyzed: 04/02/2013 20:19
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.: 136079
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	412		100	20
208-96-8	Acenaphthylene	436		40	5.0
120-12-7	Anthracene	447		8.4	4.2
56-55-3	Benzo[a]anthracene	479		8.0	3.9
50-32-8	Benzo[a]pyrene	454		10	5.2
205-99-2	Benzo[b]fluoranthene	456		12	6.1
191-24-2	Benzo[g,h,i]perylene	425		20	4.4
207-08-9	Benzo[k]fluoranthene	469		8.0	3.6
218-01-9	Chrysene	447		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	476		20	4.1
206-44-0	Fluoranthene	483		20	4.0
86-73-7	Fluorene	450		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	403		20	7.1
90-12-0	1-Methylnaphthalene	509		40	4.4
91-57-6	2-Methylnaphthalene	483		40	7.1
91-20-3	Naphthalene	461		40	4.4
85-01-8	Phenanthrene	439		8.0	3.9
129-00-0	Pyrene	509		20	3.7

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\BSMC5973.i\1C040213B.b\1CD02027.D
Lab Smp Id: lcs 660-135924/2-a
Inj Date : 02-APR-2013 20:19
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-135924/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 26 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	536976	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	477938	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	982106	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	93721	6.57186	437.8320
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1206373	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	1158196	40.0000	
2 Naphthalene	128	3.722	3.721	(1.003)	95371	6.91489	460.6857
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	67997	7.24257	482.5165
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	64602	7.64717	509.4716
5 Acenaphthylene	152	4.710	4.710	(0.982)	129477	6.54563	436.0844
7 Acenaphthene	154	4.816	4.821	(1.004)	75709	6.17955	411.6958
9 Fluorene	166	5.139	5.139	(1.071)	110432	6.76149	450.4656
11 Phenanthrene	178	5.763	5.763	(1.003)	188670	6.59605	439.4435
12 Anthracene	178	5.792	5.798	(1.008)	194399	6.70444	446.6651

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.904	5.904	(1.028)	184492	7.42668	494.7820
15 Fluoranthene	202	6.598	6.598	(1.148)	228870	7.24525	482.6950
16 Pyrene	202	6.763	6.762	(0.880)	255268	7.63876	508.9114
17 Benzo(a)anthracene	228	7.674	7.680	(0.998)	246415	7.18521	478.6948
19 Chrysene	228	7.704	7.704	(1.002)	230392	6.70205	446.5055
20 Benzo(b)fluoranthene	252	8.515	8.521	(0.961)	224162	6.84607	456.1003
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.963)	223127	7.04570	469.4000
22 Benzo(a)pyrene	252	8.804	8.809	(0.993)	210159	6.81738	454.1891
24 Indeno(1,2,3-cd)pyrene	276	10.004	10.015	(1.129)	176973	6.04421	402.6789(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.027	(1.131)	193346	7.14836	476.2401
26 Benzo(g,h,i)perylene	276	10.351	10.356	(1.168)	190765	6.38363	425.2916

QC Flag Legend

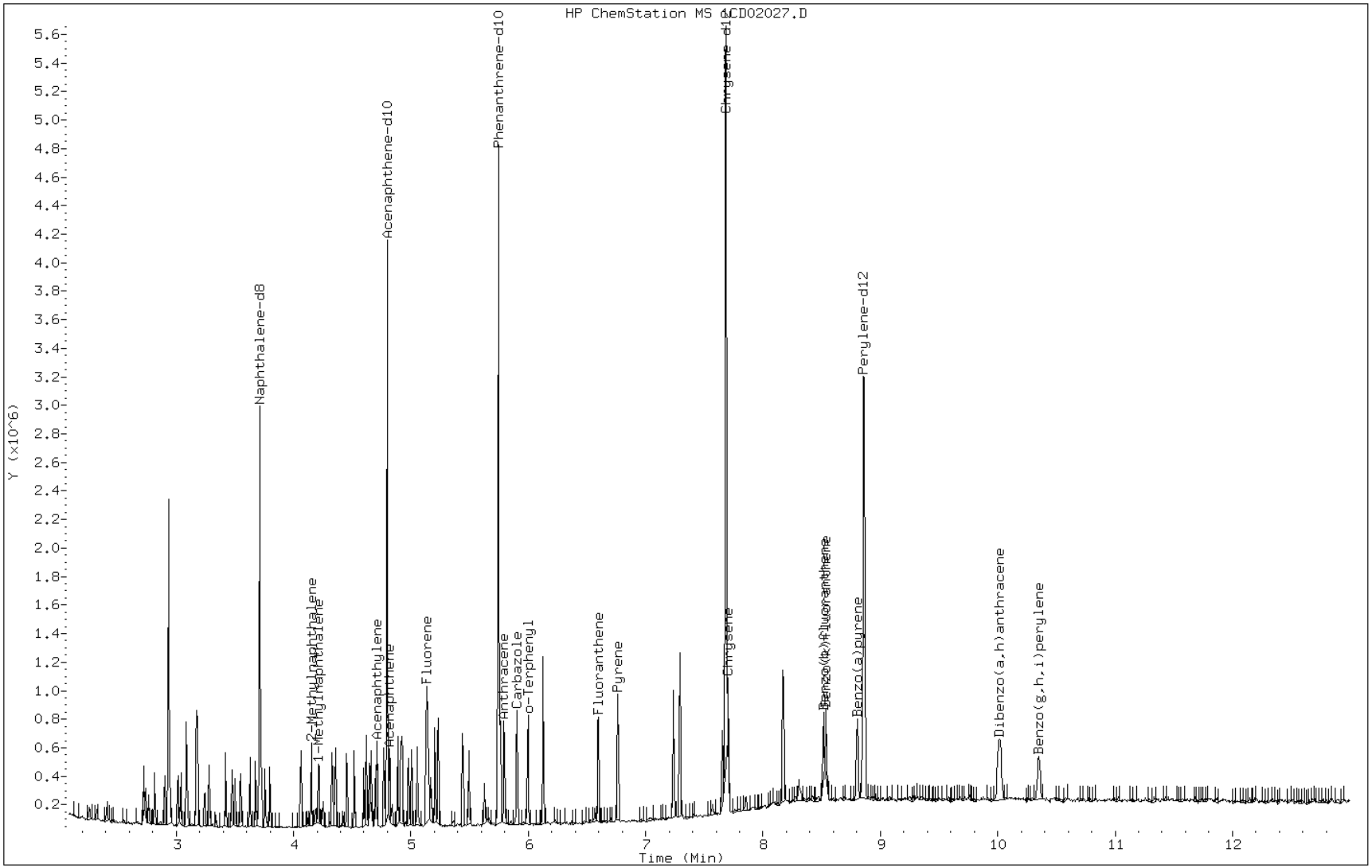
M - Compound response manually integrated.

Data File: 1CD02027.D

Date: 02-APR-2013 20:19

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-135924/2-a Operator: SCC



Manual Integration Report

Data File: 1CD02027.D
Inj. Date and Time: 02-APR-2013 20:19
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

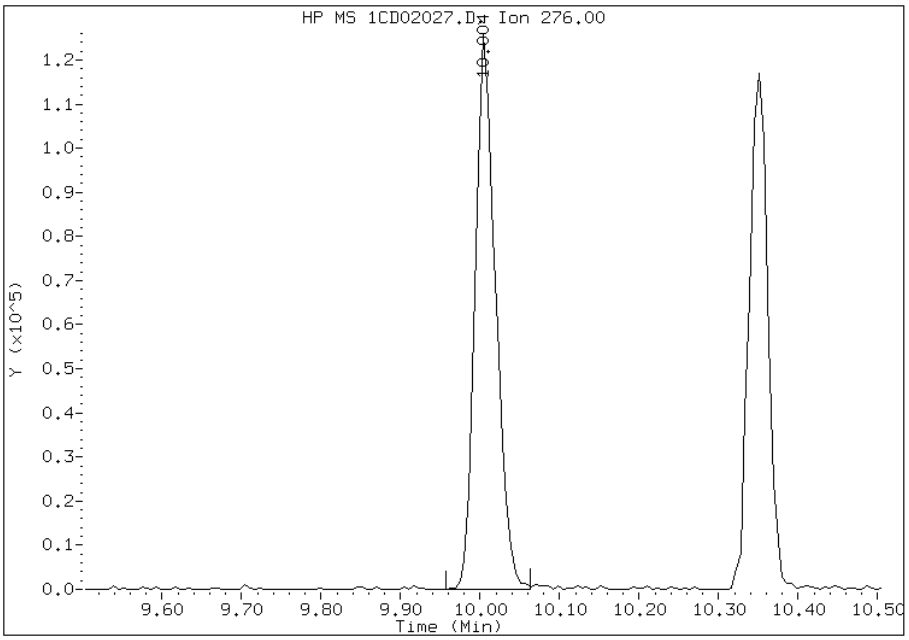
Processing Integration Results

RT: 10.00

Response: 222676

Amount: 8

Conc: 507



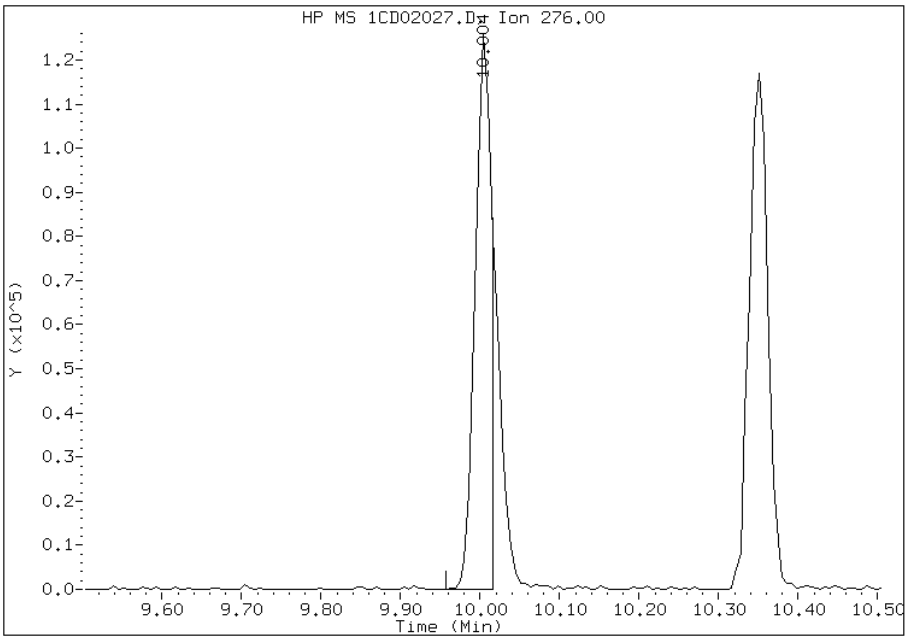
Manual Integration Results

RT: 10.00

Response: 176973

Amount: 6

Conc: 403



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88632-2
SDG No.: 68088632-2
Client Sample ID:
Lab Sample ID: 680-88592-A-21-B MS
Matrix: Solid
Lab File ID: 1DC28014.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/27/2013 11:19
Sample wt/vol: 14.75(g)
Date Analyzed: 03/28/2013 16:50
Con. Extract Vol.: 1(mL)
Dilution Factor: 4
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 20.8
GPC Cleanup:(Y/N) N
Analysis Batch No.: 136038
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	465	J	510	100
208-96-8	Acenaphthylene	493		210	26
120-12-7	Anthracene	478		43	22
56-55-3	Benzo[a]anthracene	561		41	20
50-32-8	Benzo[a]pyrene	467		53	27
205-99-2	Benzo[b]fluoranthene	511		63	31
191-24-2	Benzo[g,h,i]perylene	485		100	23
207-08-9	Benzo[k]fluoranthene	473		41	18
218-01-9	Chrysene	484		46	23
53-70-3	Dibenz(a,h)anthracene	525		100	21
206-44-0	Fluoranthene	509		100	21
86-73-7	Fluorene	502		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	474		100	36
90-12-0	1-Methylnaphthalene	535		210	23
91-57-6	2-Methylnaphthalene	520		210	36
91-20-3	Naphthalene	507		210	23
85-01-8	Phenanthrene	480		41	20
129-00-0	Pyrene	477		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28014.D
Lab Smp Id: 680-88592-A-21-B MS
Inj Date : 28-MAR-2013 16:50
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88592-A-21-B MS
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m
Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 14 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.750	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.103	6.102	(1.000)	3558914	40.0000	
* 6 Acenaphthene-d10	164	7.777	7.777	(1.000)	2282337	40.0000	
* 9 Phenanthrene-d10	188	9.040	9.040	(1.000)	3768115	40.0000	
$ 13 o-Terphenyl	230	9.346	9.351	(1.034)	83287	1.42932	390
* 17 Chrysene-d12	240	11.367	11.373	(1.000)	3819813	40.0000	
* 22 Perylene-d12	264	13.218	13.223	(1.000)	3970099	40.0000	
2 Naphthalene	128	6.120	6.126	(1.003)	140891	1.47990	400
3 2-Methylnaphthalene	142	6.825	6.825	(1.118)	91992	1.51688	410
4 1-Methylnaphthalene	142	6.919	6.919	(1.134)	88757	1.56289	420
5 Acenaphthylene	152	7.648	7.653	(0.983)	144913	1.44016	390
7 Acenaphthene	154	7.801	7.806	(1.003)	83230	1.35659	370
8 Fluorene	166	8.247	8.247	(1.060)	104963	1.46428	400
10 Phenanthrene	178	9.058	9.064	(1.002)	149813	1.40059	380
11 Anthracene	178	9.093	9.099	(1.006)	149252	1.39462	380

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.234	9.240	(1.021)	131695	1.37654	370
14 Fluoranthene	202	10.039	10.045	(1.110)	165706	1.48449	400
15 Pyrene	202	10.227	10.233	(0.900)	165141	1.39375	380
16 Benzo(a)anthracene	228	11.338	11.349	(0.997)	171394	1.63891	440
18 Chrysene	228	11.385	11.396	(1.002)	152530	1.41276	380
19 Benzo(b)fluoranthene	252	12.648	12.671	(0.957)	152483	1.49216	400
20 Benzo(k)fluoranthene	252	12.689	12.712	(0.960)	147844	1.38177	370
21 Benzo(a)pyrene	252	13.100	13.124	(0.991)	137887	1.36353	370
23 Indeno(1,2,3-cd)pyrene	276	14.792	14.827	(1.119)	149286	1.38332	380(M)
24 Dibenzo(a,h)anthracene	278	14.822	14.863	(1.121)	152664	1.53176	420(H)
25 Benzo(g,h,i)perylene	276	15.233	15.280	(1.152)	145824	1.41722	380(H)

QC Flag Legend

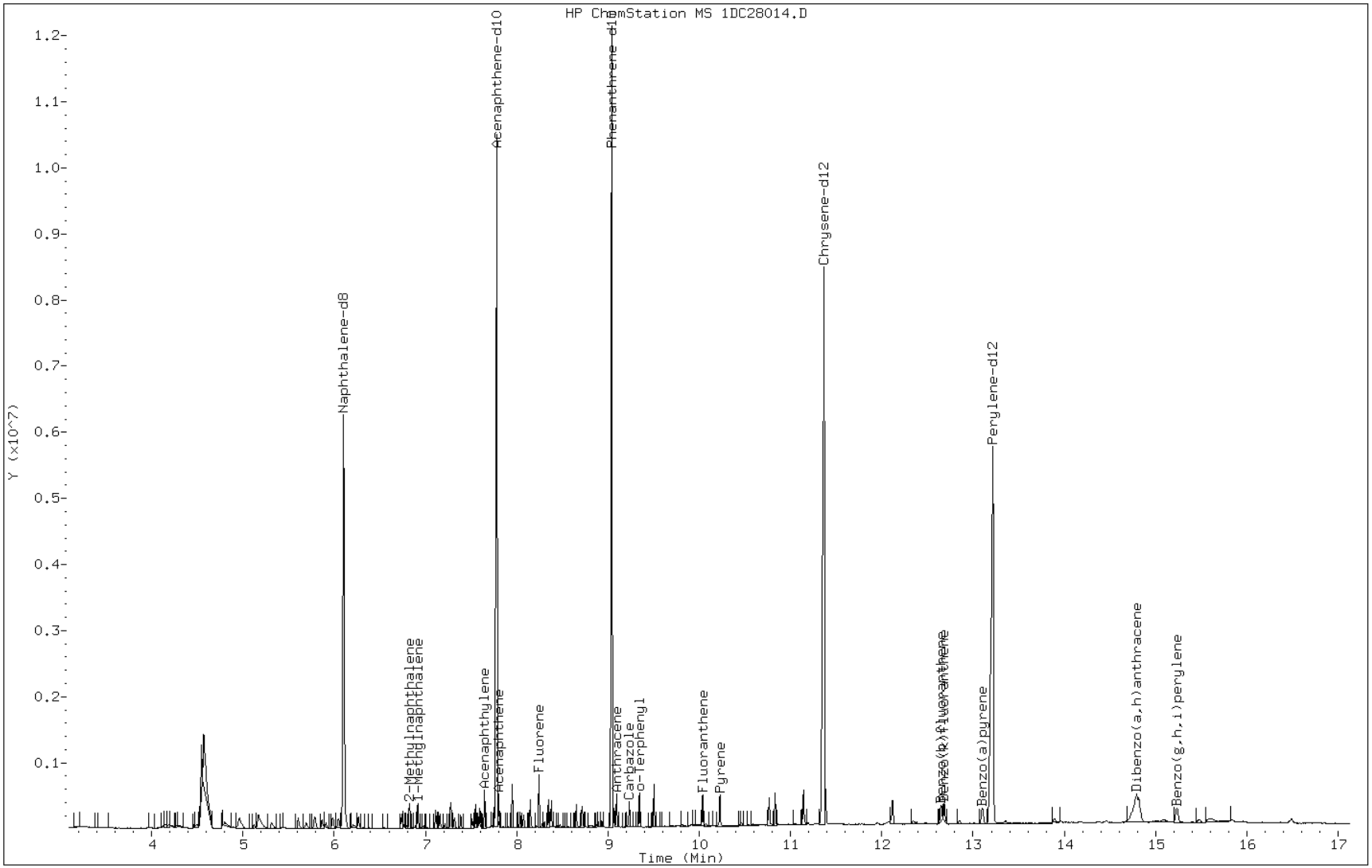
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DC28014.D

Date: 28-MAR-2013 16:50

Client ID: Instrument: BSMSD.i

Sample Info: 680-88592-A-21-B MS Operator: SCC



Manual Integration Report

Data File: 1DC28014.D
Inj. Date and Time: 28-MAR-2013 16:50
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

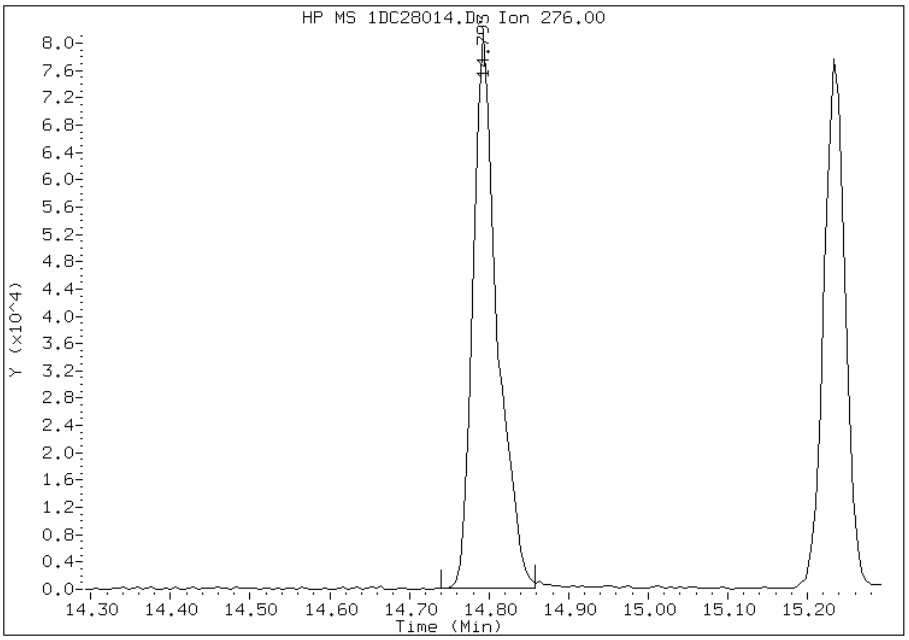
Processing Integration Results

RT: 14.79

Response: 171808

Amount: 2

Conc: 432



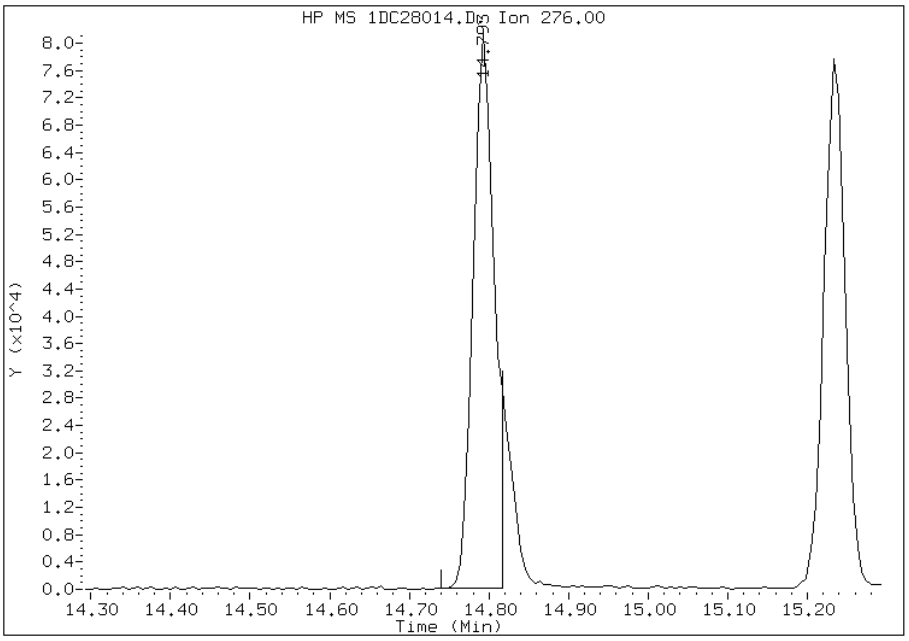
Manual Integration Results

RT: 14.79

Response: 149286

Amount: 1

Conc: 375



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 13:55
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: | Lab Sample ID: 680-88632-A-10-D MS

Matrix: Solid | Lab File ID: 1CD01016.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/27/2013 15:04

Sample wt/vol: 14.97(g) | Date Analyzed: 04/01/2013 15:47

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

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

% Moisture: 21.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135996 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	674		510	100
208-96-8	Acenaphthylene	736		200	26
120-12-7	Anthracene	936		43	21
56-55-3	Benzo[a]anthracene	2110		41	20
50-32-8	Benzo[a]pyrene	2020		53	27
205-99-2	Benzo[b]fluoranthene	2820		62	31
191-24-2	Benzo[g,h,i]perylene	1560		100	22
207-08-9	Benzo[k]fluoranthene	1490		41	18
218-01-9	Chrysene	2080		46	23
53-70-3	Dibenz(a,h)anthracene	1030		100	21
206-44-0	Fluoranthene	3460		100	20
86-73-7	Fluorene	698		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	1420		100	36
90-12-0	1-Methylnaphthalene	1050		200	22
91-57-6	2-Methylnaphthalene	920		200	36
91-20-3	Naphthalene	783		200	22
85-01-8	Phenanthrene	2180		41	20
129-00-0	Pyrene	3030		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01016.D
Lab Smp Id: 680-88632-a-10-d ms
Inj Date : 01-APR-2013 15:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-10-d ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 16 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	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	3.716	3.716	(1.000)	655029	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	516035	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	936821	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	26684	1.88654	504.0859
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1084495	40.0000	
* 23 Perylene-d12	264	8.868	8.886	(1.000)	1027644	40.0000	
2 Naphthalene	128	3.733	3.733	(1.005)	39183	2.29773	613.9572
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	30711	2.69986	721.4064
4 1-Methylnaphthalene	142	4.222	4.222	(1.136)	31977	3.08661	824.7446
5 Acenaphthylene	152	4.716	4.716	(0.982)	44961	2.16108	577.4419
7 Acenaphthene	154	4.827	4.827	(1.005)	25598	1.97952	528.9298
9 Fluorene	166	5.145	5.145	(1.071)	33494	2.04805	547.2399
11 Phenanthrene	178	5.768	5.768	(1.003)	173368	6.40001	1710.0884(R)
12 Anthracene	178	5.804	5.804	(1.009)	72756	2.74628	733.8078

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.910	5.910	(1.028)	55407	2.35273	628.6523
15 Fluoranthene	202	6.604	6.604	(1.148)	301652	10.1685	2717.0259(R)
16 Pyrene	202	6.774	6.774	(0.881)	259547	8.90560	2379.5859(R)
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	194276	6.20678	1658.4575(R)
19 Chrysene	228	7.710	7.715	(1.002)	191056	6.09932	1629.7455(R)
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.962)	222060	8.26849	2209.3506(R)
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.964)	120550	4.37564	1169.1759(R)
22 Benzo(a)pyrene	252	8.815	8.827	(0.994)	154416	5.91947	1581.6882(R)
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.039	(1.130)	102015	4.15715	1110.7944(RM)
25 Dibenzo(a,h)anthracene	278	10.039	10.056	(1.132)	72477	3.01947	806.8050
26 Benzo(g,h,i)perylene	276	10.368	10.386	(1.169)	117335	4.57080	1221.3233(R)

QC Flag Legend

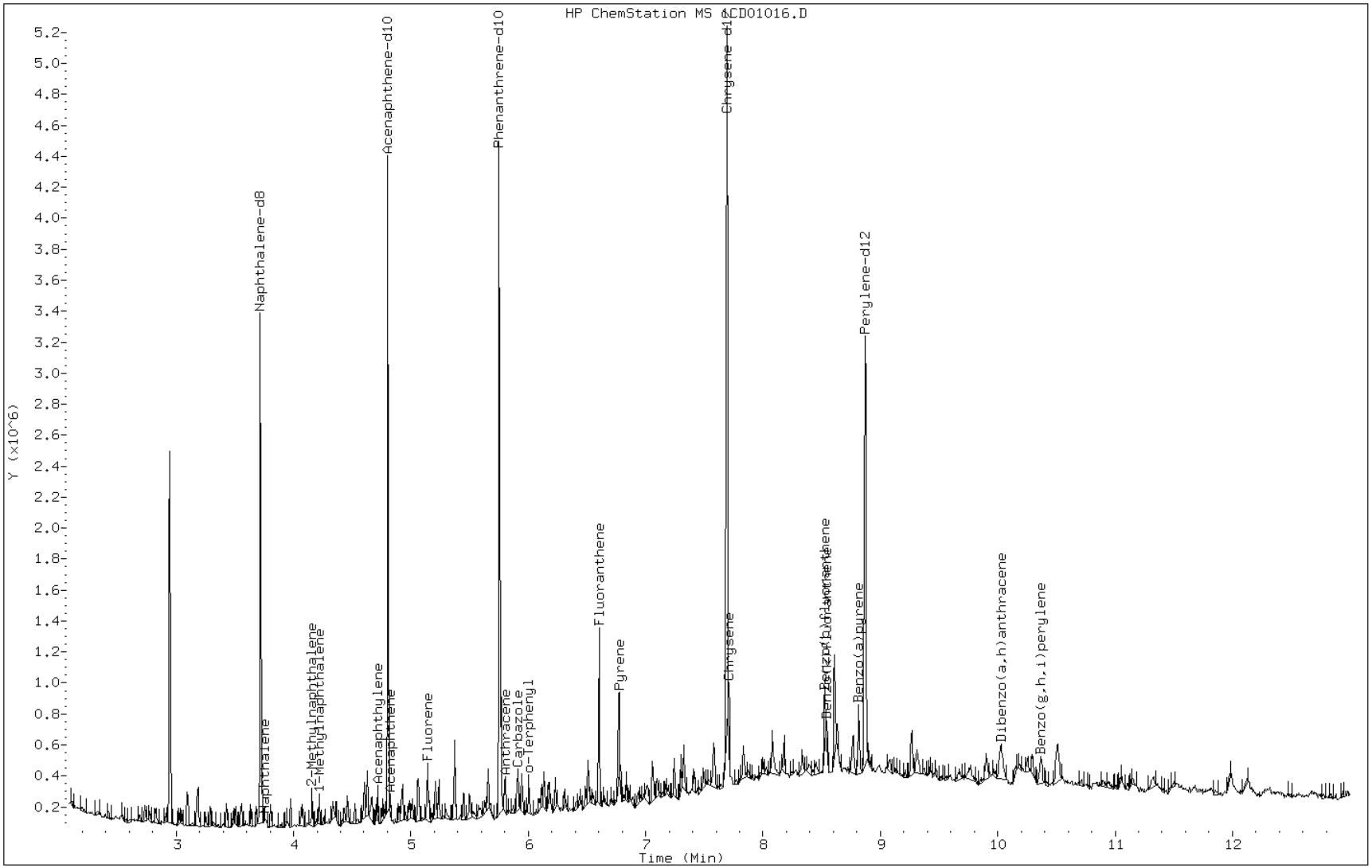
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD01016.D

Date: 01-APR-2013 15:47

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-d ms Operator: SCC



Manual Integration Report

Data File: 1CD01016.D
Inj. Date and Time: 01-APR-2013 15:47
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

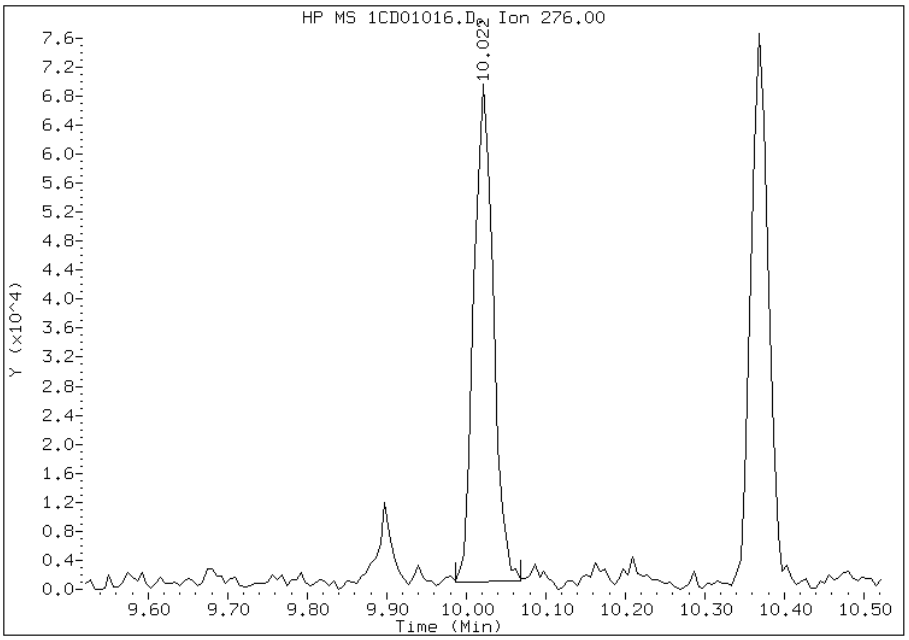
Processing Integration Results

RT: 10.02

Response: 115502

Amount: 5

Conc: 1258



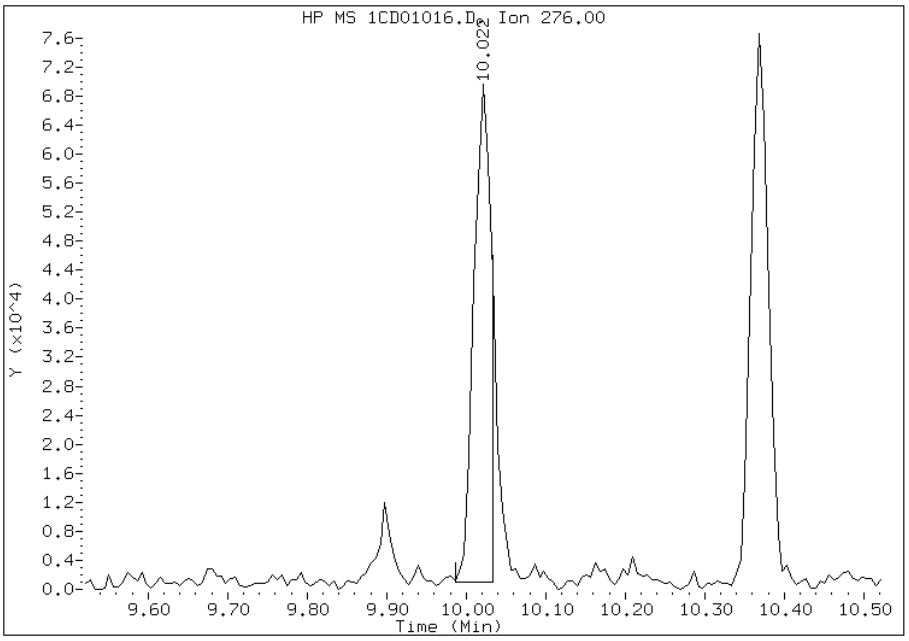
Manual Integration Results

RT: 10.02

Response: 102015

Amount: 4

Conc: 1111



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: CV0476A-CS-SP MS | Lab Sample ID: 680-88632-21 MS

Matrix: Solid | Lab File ID: 1CD02029.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 15:35

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 15.01(g) | Date Analyzed: 04/02/2013 20:56

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

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

% Moisture: 18.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136079 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	449		120	25
208-96-8	Acenaphthylene	445		49	6.1
120-12-7	Anthracene	430		10	5.1
56-55-3	Benzo[a]anthracene	578		9.8	4.8
50-32-8	Benzo[a]pyrene	499		13	6.4
205-99-2	Benzo[b]fluoranthene	613		15	7.5
191-24-2	Benzo[g,h,i]perylene	463		25	5.4
207-08-9	Benzo[k]fluoranthene	560		9.8	4.4
218-01-9	Chrysene	553		11	5.5
53-70-3	Dibenz(a,h)anthracene	479		25	5.0
206-44-0	Fluoranthene	598		25	4.9
86-73-7	Fluorene	502		25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	413		25	8.7
90-12-0	1-Methylnaphthalene	610		49	5.4
91-57-6	2-Methylnaphthalene	567		49	8.7
91-20-3	Naphthalene	572		49	5.4
85-01-8	Phenanthrene	565		9.8	4.8
129-00-0	Pyrene	597		25	4.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02029.D
Lab Smp Id: 680-88632-a-21-b ms
Inj Date : 02-APR-2013 20:56
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-21-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 28 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	583262	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	519154	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	1060524	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	94046	6.15833	410.2818
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1203389	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	1130015	40.0000	
2 Naphthalene	128	3.721	3.721	(1.003)	104847	6.99868	466.2680
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	70822	6.94484	462.6811
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	68479	7.46283	497.1903
5 Acenaphthylene	152	4.710	4.710	(0.982)	117067	5.44839	362.9842
7 Acenaphthene	154	4.821	4.821	(1.005)	73074	5.49096	365.8198
9 Fluorene	166	5.139	5.139	(1.071)	109114	6.15040	409.7533
11 Phenanthrene	178	5.762	5.763	(1.003)	213472	6.91130	460.4463
12 Anthracene	178	5.798	5.798	(1.009)	164837	5.26455	350.7362

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.904	5.904	(1.028)	155965	5.81409	387.3480
15 Fluoranthene	202	6.598	6.598	(1.148)	249886	7.32562	488.0494
16 Pyrene	202	6.762	6.762	(0.880)	243521	7.30531	486.6960
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	242060	7.07779	471.5383
19 Chrysene	228	7.704	7.704	(1.002)	232055	6.76716	450.8436
20 Benzo(b)fluoranthene	252	8.515	8.521	(0.961)	239670	7.50223	499.8157
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.963)	211918	6.85863	456.9374
22 Benzo(a)pyrene	252	8.803	8.809	(0.993)	183801	6.11104	407.1313
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.015	(1.129)	144499	5.05819	336.9881(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.027	(1.131)	154724	5.86310	390.6126
26 Benzo(g,h,i)perylene	276	10.350	10.356	(1.168)	165119	5.66322	377.2967

QC Flag Legend

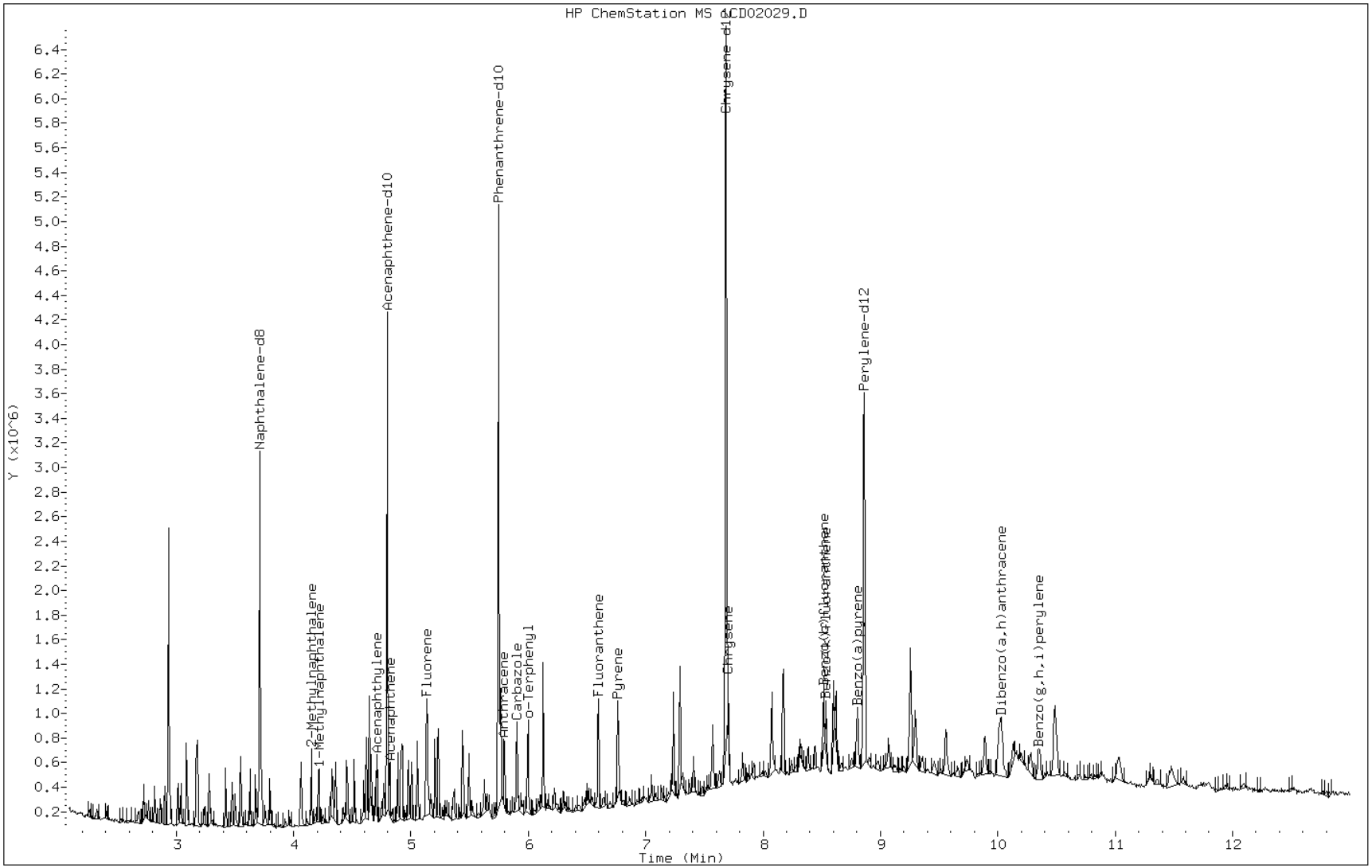
M - Compound response manually integrated.

Data File: 1CD02029.D

Date: 02-APR-2013 20:56

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-b ms Operator: SCC



Manual Integration Report

Data File: 1CD02029.D
Inj. Date and Time: 02-APR-2013 20:56
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

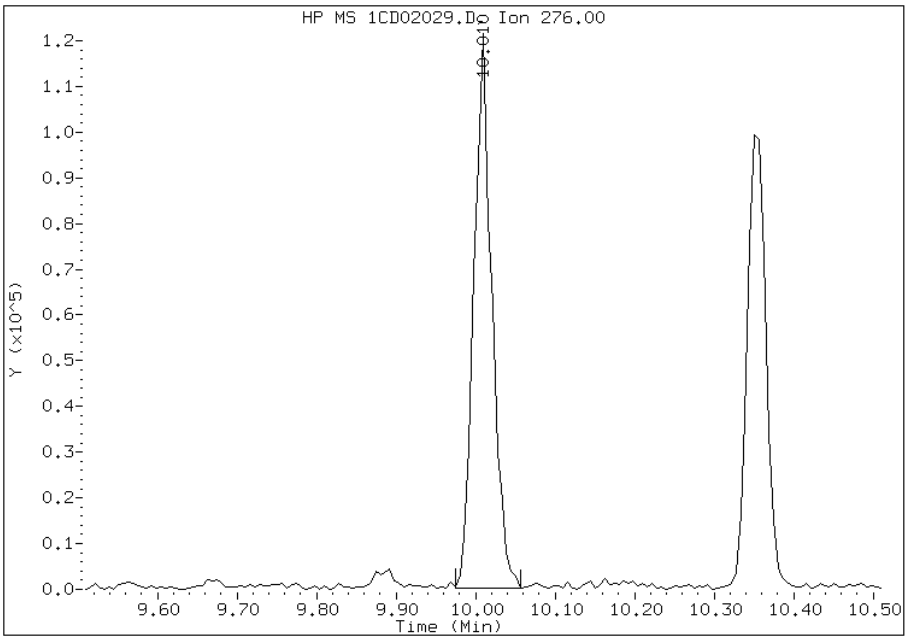
Processing Integration Results

RT: 10.01

Response: 188533

Amount: 7

Conc: 440



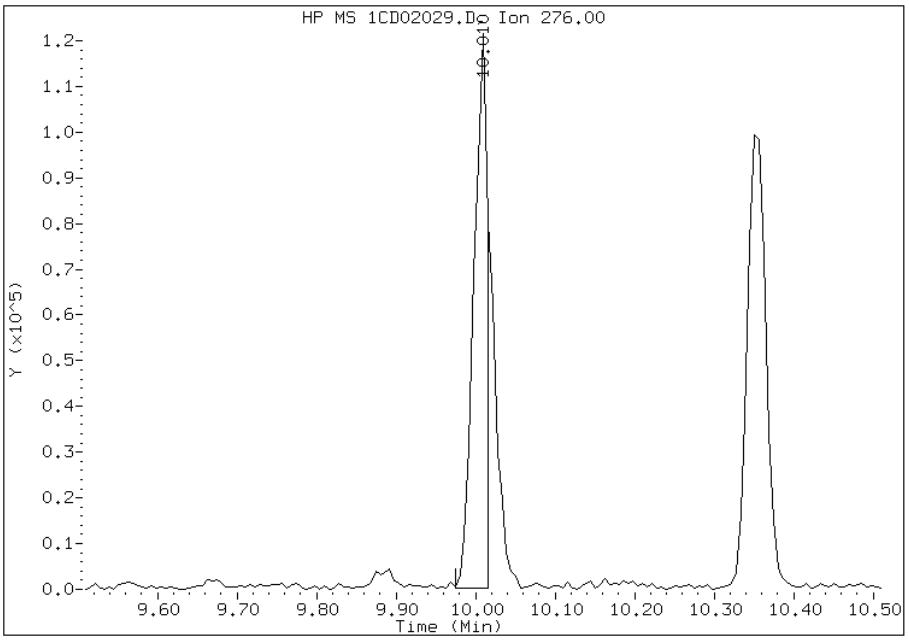
Manual Integration Results

RT: 10.01

Response: 144499

Amount: 5

Conc: 337



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88632-2
SDG No.: 68088632-2
Client Sample ID:
Lab Sample ID: 680-88592-A-21-C MSD
Matrix: Solid
Lab File ID: 1DC28015.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/27/2013 11:19
Sample wt/vol: 14.54(g)
Date Analyzed: 03/28/2013 17:12
Con. Extract Vol.: 1(mL)
Dilution Factor: 4
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 20.8
GPC Cleanup:(Y/N) N
Analysis Batch No.: 136038
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	536		520	100
208-96-8	Acenaphthylene	543		210	26
120-12-7	Anthracene	550		44	22
56-55-3	Benzo[a]anthracene	633		42	20
50-32-8	Benzo[a]pyrene	535		54	27
205-99-2	Benzo[b]fluoranthene	591		64	32
191-24-2	Benzo[g,h,i]perylene	564		100	23
207-08-9	Benzo[k]fluoranthene	571		42	19
218-01-9	Chrysene	558		47	23
53-70-3	Dibenz(a,h)anthracene	604		100	21
206-44-0	Fluoranthene	571		100	21
86-73-7	Fluorene	559		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	527		100	37
90-12-0	1-Methylnaphthalene	602		210	23
91-57-6	2-Methylnaphthalene	580		210	37
91-20-3	Naphthalene	552		210	23
85-01-8	Phenanthrene	553		42	20
129-00-0	Pyrene	552		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28015.D
Lab Smp Id: 680-88592-A-21-C MS
Inj Date : 28-MAR-2013 17:12
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88592-A-21-C MSD
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m
Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 15 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.750	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.101	6.102	(1.000)	3608549	40.0000	
* 6 Acenaphthene-d10	164	7.781	7.777	(1.000)	2329630	40.0000	
* 9 Phenanthrene-d10	188	9.039	9.040	(1.000)	3894748	40.0000	
$ 13 o-Terphenyl	230	9.344	9.351	(1.034)	95434	1.58453	430
* 17 Chrysene-d12	240	11.365	11.373	(1.000)	3914233	40.0000	
* 22 Perylene-d12	264	13.222	13.223	(1.000)	4038676	40.0000	
2 Naphthalene	128	6.124	6.126	(1.004)	153450	1.58964	430
3 2-Methylnaphthalene	142	6.824	6.825	(1.118)	102636	1.66912	450
4 1-Methylnaphthalene	142	6.918	6.919	(1.134)	99805	1.73326	470
5 Acenaphthylene	152	7.646	7.653	(0.983)	160629	1.56394	420
7 Acenaphthene	154	7.805	7.806	(1.003)	96535	1.54151	420
8 Fluorene	166	8.245	8.247	(1.060)	117667	1.60818	440
10 Phenanthrene	178	9.056	9.064	(1.002)	175841	1.59047	430
11 Anthracene	178	9.097	9.099	(1.006)	175218	1.58401	430

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.233	9.240	(1.021)	141299	1.42890	390
14 Fluoranthene	202	10.037	10.045	(1.110)	189687	1.64407	440
15 Pyrene	202	10.226	10.233	(0.900)	193039	1.58990	430
16 Benzo(a)anthracene	228	11.342	11.349	(0.998)	195355	1.82297	490
18 Chrysene	228	11.383	11.396	(1.002)	177625	1.60551	440
19 Benzo(b)fluoranthene	252	12.652	12.671	(0.957)	176883	1.70154	460(H)
20 Benzo(k)fluoranthene	252	12.687	12.712	(0.960)	178821	1.64291	440
21 Benzo(a)pyrene	252	13.099	13.124	(0.991)	158281	1.53863	420
23 Indeno(1,2,3-cd)pyrene	276	14.791	14.827	(1.119)	166457	1.51624	410(M)
24 Dibenzo(a,h)anthracene	278	14.820	14.863	(1.121)	176315	1.73903	470
25 Benzo(g,h,i)perylene	276	15.237	15.280	(1.152)	169931	1.62347	440

QC Flag Legend

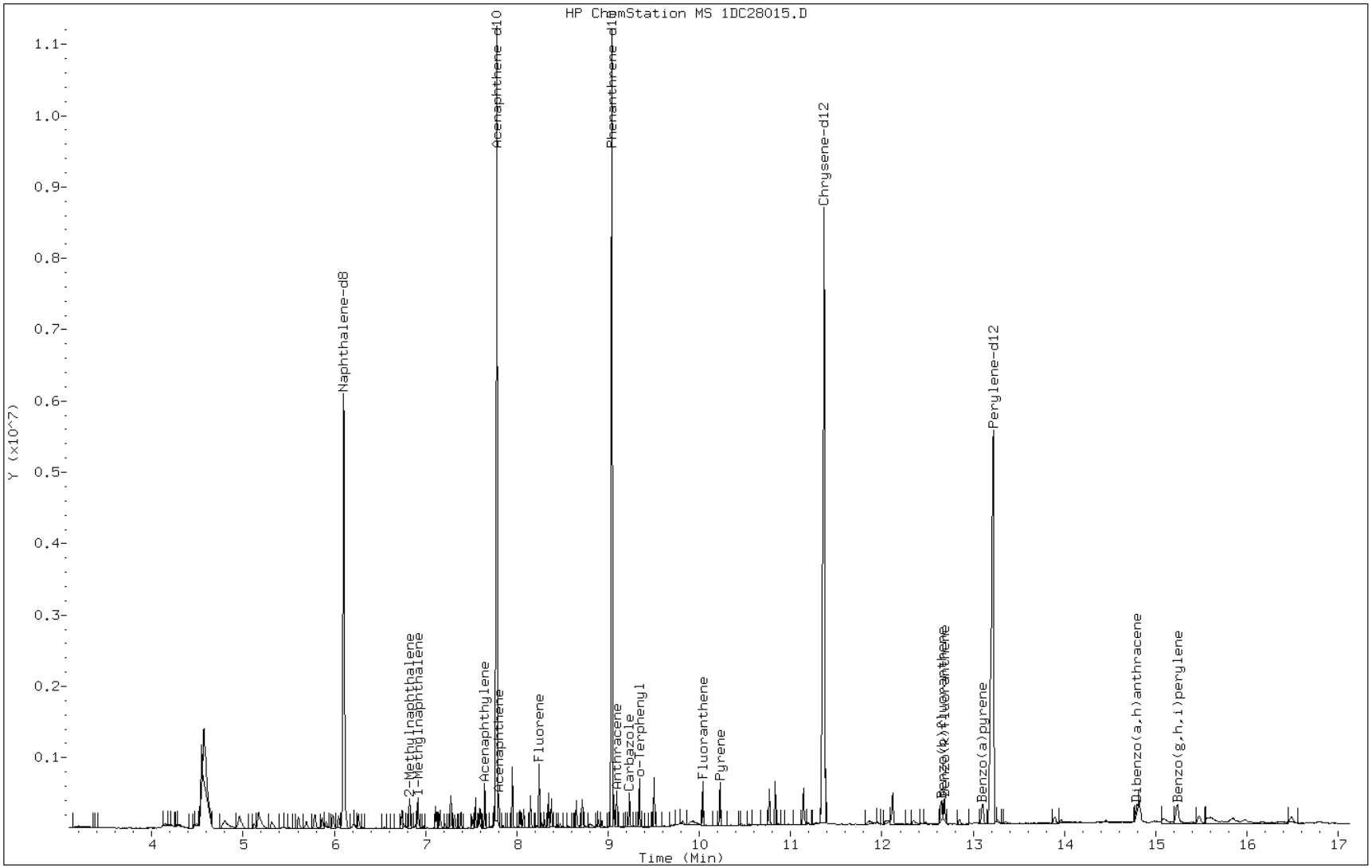
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DC28015.D

Date: 28-MAR-2013 17:12

Client ID: Instrument: BSMSD.i

Sample Info: 680-88592-A-21-C MSD Operator: SCC



Manual Integration Report

Data File: 1DC28015.D
Inj. Date and Time: 28-MAR-2013 17:12
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

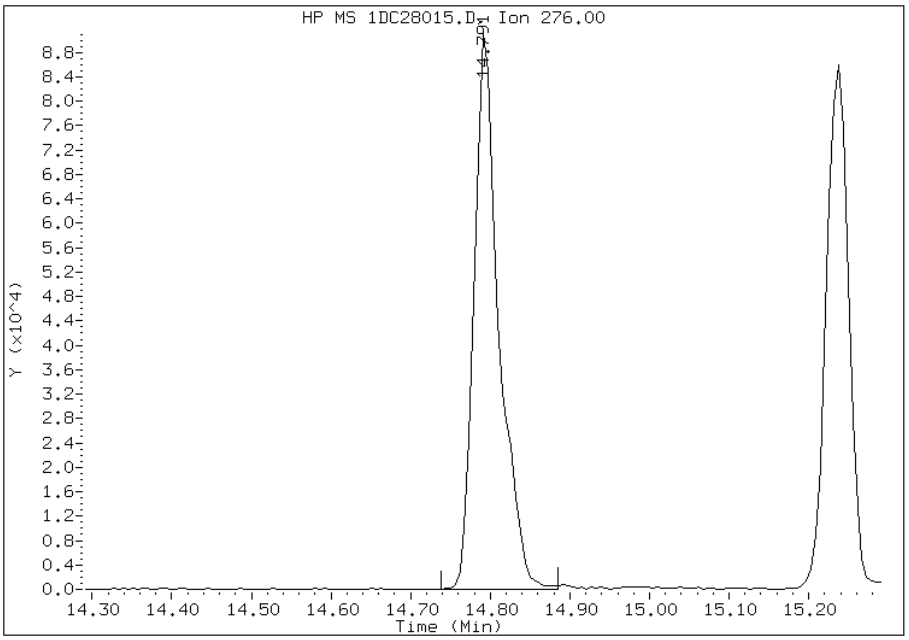
Processing Integration Results

RT: 14.79

Response: 197079

Amount: 2

Conc: 487



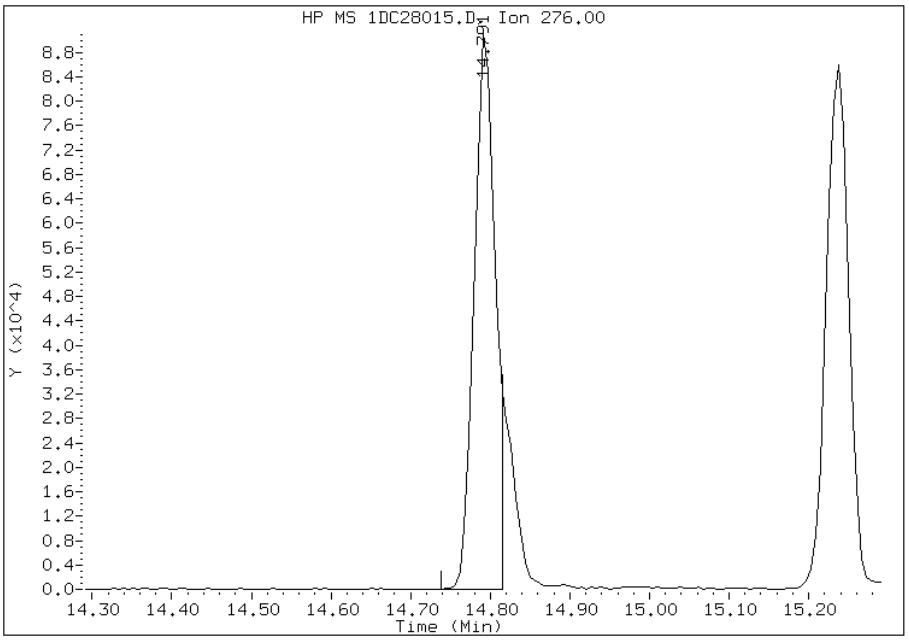
Manual Integration Results

RT: 14.79

Response: 166457

Amount: 2

Conc: 411



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 13:56
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88632-2
SDG No.: 68088632-2
Client Sample ID:
Lab Sample ID: 680-88632-A-10-C MSD
Matrix: Solid
Lab File ID: 1CD01017.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/27/2013 15:04
Sample wt/vol: 14.94(g)
Date Analyzed: 04/01/2013 16:05
Con. Extract Vol.: 1(mL)
Dilution Factor: 4
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 21.6
GPC Cleanup:(Y/N) N
Analysis Batch No.: 135996
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	695		510	100
208-96-8	Acenaphthylene	844		200	26
120-12-7	Anthracene	1160		43	22
56-55-3	Benzo[a]anthracene	4010		41	20
50-32-8	Benzo[a]pyrene	3770		53	27
205-99-2	Benzo[b]fluoranthene	5430		62	31
191-24-2	Benzo[g,h,i]perylene	2480		100	23
207-08-9	Benzo[k]fluoranthene	2920		41	18
218-01-9	Chrysene	4100		46	23
53-70-3	Dibenz(a,h)anthracene	1210		100	21
206-44-0	Fluoranthene	6580		100	20
86-73-7	Fluorene	724		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	2460		100	36
90-12-0	1-Methylnaphthalene	816		200	23
91-57-6	2-Methylnaphthalene	621		200	36
91-20-3	Naphthalene	681		200	23
85-01-8	Phenanthrene	3080		41	20
129-00-0	Pyrene	6020		100	19

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\BSMC5973.i\1C040113.b\1CD01017.D
Lab Smp Id: 680-88632-a-10-c ms
Inj Date : 01-APR-2013 16:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-10-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 17 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	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	3.716	3.716	(1.000)	691250	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	560459	40.0000	
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	1008510	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	24827	1.63048	436.5414
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1100421	40.0000	
* 23 Perylene-d12	264	8.874	8.886	(1.000)	1067194	40.0000	
2 Naphthalene	128	3.733	3.733	(1.005)	35894	1.99457	534.0216
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	21851	1.82031	487.3645
4 1-Methylnaphthalene	142	4.222	4.222	(1.136)	26137	2.39070	640.0797
5 Acenaphthylene	152	4.716	4.716	(0.982)	55841	2.47128	661.6557
7 Acenaphthene	154	4.821	4.827	(1.004)	28581	2.03501	544.8488
9 Fluorene	166	5.145	5.145	(1.071)	37651	2.11975	567.5365
11 Phenanthrene	178	5.768	5.768	(1.003)	263314	9.02946	2417.5262(R)
12 Anthracene	178	5.804	5.804	(1.009)	96510	3.38395	906.0110(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.910	5.910	(1.028)	70891	2.79624	748.6599
15 Fluoranthene	202	6.604	6.604	(1.148)	615918	19.2863	5163.6653(R)
16 Pyrene	202	6.774	6.774	(0.881)	521557	17.6367	4722.0116(R)
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	372740	11.7360	3142.1803(R)
19 Chrysene	228	7.715	7.715	(1.003)	381538	12.0040	3213.9330(R)
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.961)	443258	15.8932	4255.2140(R)
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.963)	244848	8.55796	2291.2883(R)
22 Benzo(a)pyrene	252	8.815	8.827	(0.993)	299567	11.0582	2960.6909(R)
24 Indeno(1,2,3-cd)pyrene	276	10.027	10.039	(1.130)	183377	7.19574	1926.5711(RM)
25 Dibenzo(a,h)anthracene	278	10.039	10.056	(1.131)	88676	3.55742	952.4561(R)
26 Benzo(g,h,i)perylene	276	10.368	10.386	(1.168)	193725	7.26691	1945.6256(R)

QC Flag Legend

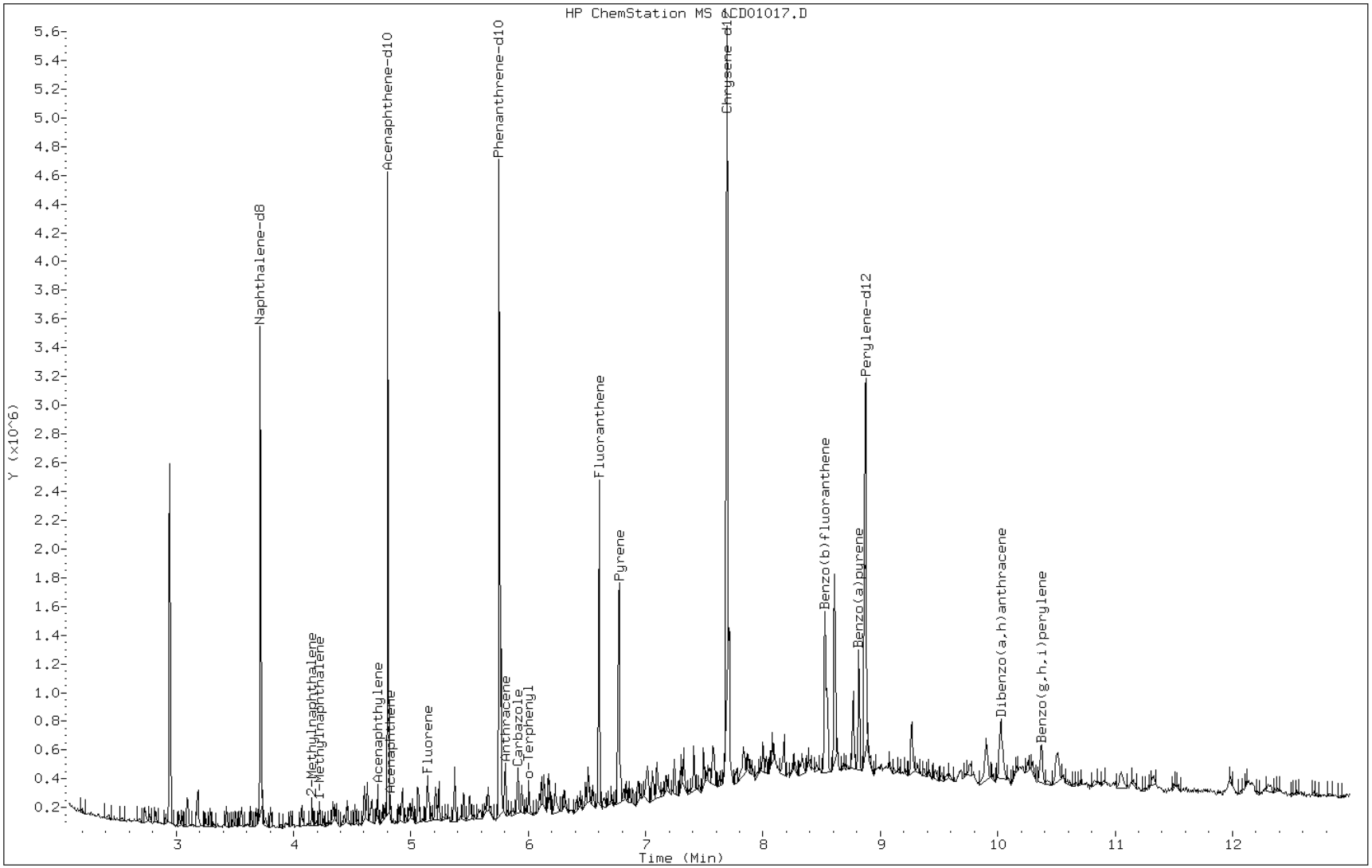
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD01017.D

Date: 01-APR-2013 16:05

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-c msd Operator: SCC



Manual Integration Report

Data File: 1CD01017.D
Inj. Date and Time: 01-APR-2013 16:05
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

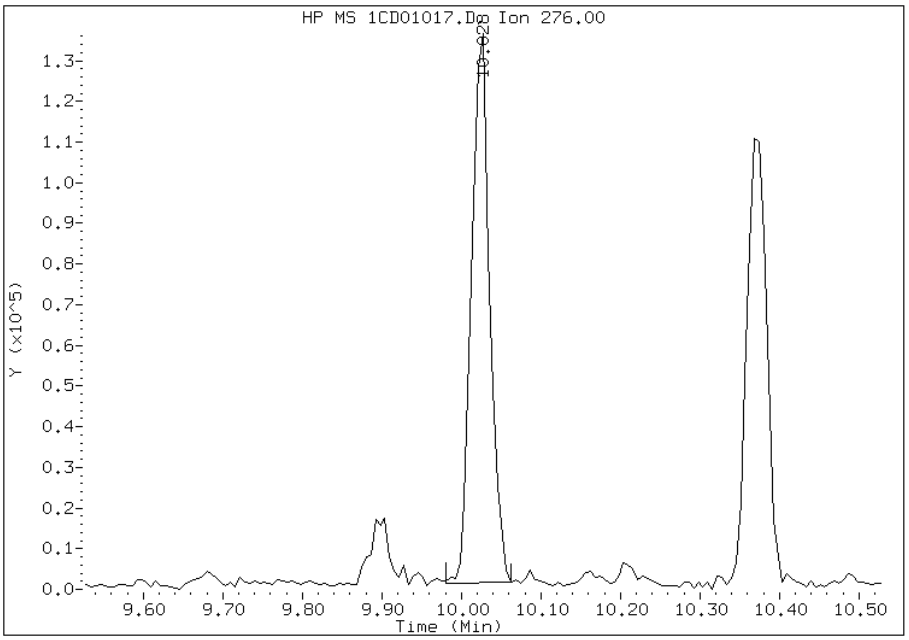
Processing Integration Results

RT: 10.03

Response: 213712

Amount: 8

Conc: 2245



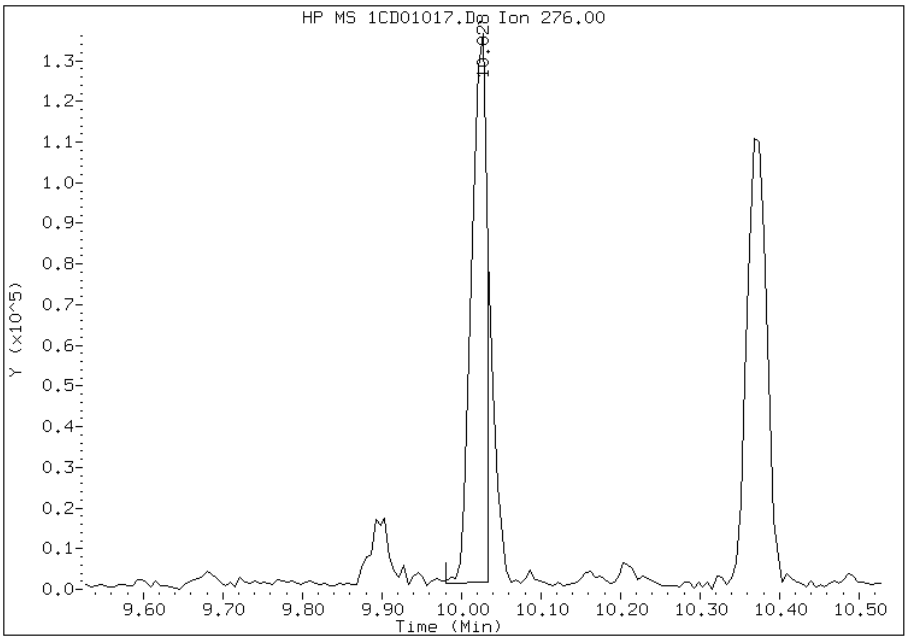
Manual Integration Results

RT: 10.03

Response: 183377

Amount: 7

Conc: 1927



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88632-2

SDG No.: 68088632-2

Client Sample ID: CV0476A-CS-SP MSD | Lab Sample ID: 680-88632-21 MSD

Matrix: Solid | Lab File ID: 1CD02030.D

Analysis Method: 8270C LL | Date Collected: 03/21/2013 15:35

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 15.05(g) | Date Analyzed: 04/02/2013 21:14

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

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

% Moisture: 18.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136079 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	487		120	24
208-96-8	Acenaphthylene	546		49	6.1
120-12-7	Anthracene	560		10	5.1
56-55-3	Benzo[a]anthracene	708		9.8	4.8
50-32-8	Benzo[a]pyrene	651		13	6.4
205-99-2	Benzo[b]fluoranthene	797		15	7.5
191-24-2	Benzo[g,h,i]perylene	579		24	5.4
207-08-9	Benzo[k]fluoranthene	696		9.8	4.4
218-01-9	Chrysene	684		11	5.5
53-70-3	Dibenz(a,h)anthracene	567		24	5.0
206-44-0	Fluoranthene	765		24	4.9
86-73-7	Fluorene	538		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	581		24	8.7
90-12-0	1-Methylnaphthalene	644		49	5.4
91-57-6	2-Methylnaphthalene	622		49	8.7
91-20-3	Naphthalene	608		49	5.4
85-01-8	Phenanthrene	684		9.8	4.8
129-00-0	Pyrene	746		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02030.D
Lab Smp Id: 680-88632-a-21-c ms
Inj Date : 02-APR-2013 21:14
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-21-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 29 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	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	3.710	3.710	(1.000)	597406	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	494548	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	988760	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	90848	6.35450	422.2257
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1197197	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	1105114	40.0000	
2 Naphthalene	128	3.727	3.721	(1.005)	114458	7.45934	495.6374
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	79708	7.63116	507.0535
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	74315	7.90709	525.3878
5 Acenaphthylene	152	4.710	4.710	(0.982)	137103	6.69836	445.0740
7 Acenaphthene	154	4.821	4.821	(1.005)	75785	5.97800	397.2094
9 Fluorene	166	5.139	5.139	(1.071)	111591	6.60298	438.7358
11 Phenanthrene	178	5.762	5.763	(1.003)	241783	8.39603	557.8760
12 Anthracene	178	5.798	5.798	(1.009)	200584	6.87120	456.5580

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.904	5.904	(1.028)	185427	7.41408	492.6301
15 Fluoranthene	202	6.598	6.598	(1.148)	298637	9.39022	623.9349
16 Pyrene	202	6.762	6.762	(0.880)	303582	9.15416	608.2499
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	296917	8.69510	577.7478
19 Chrysene	228	7.704	7.704	(1.002)	286623	8.40170	558.2524
20 Benzo(b)fluoranthene	252	8.515	8.521	(0.961)	305637	9.78273	650.0152
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.963)	258319	8.54876	568.0238
22 Benzo(a)pyrene	252	8.803	8.809	(0.993)	234959	7.98797	530.7622
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.015	(1.129)	199356	7.13571	474.1332(M)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.131)	179461	6.95371	462.0405
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	202688	7.10840	472.3189

QC Flag Legend

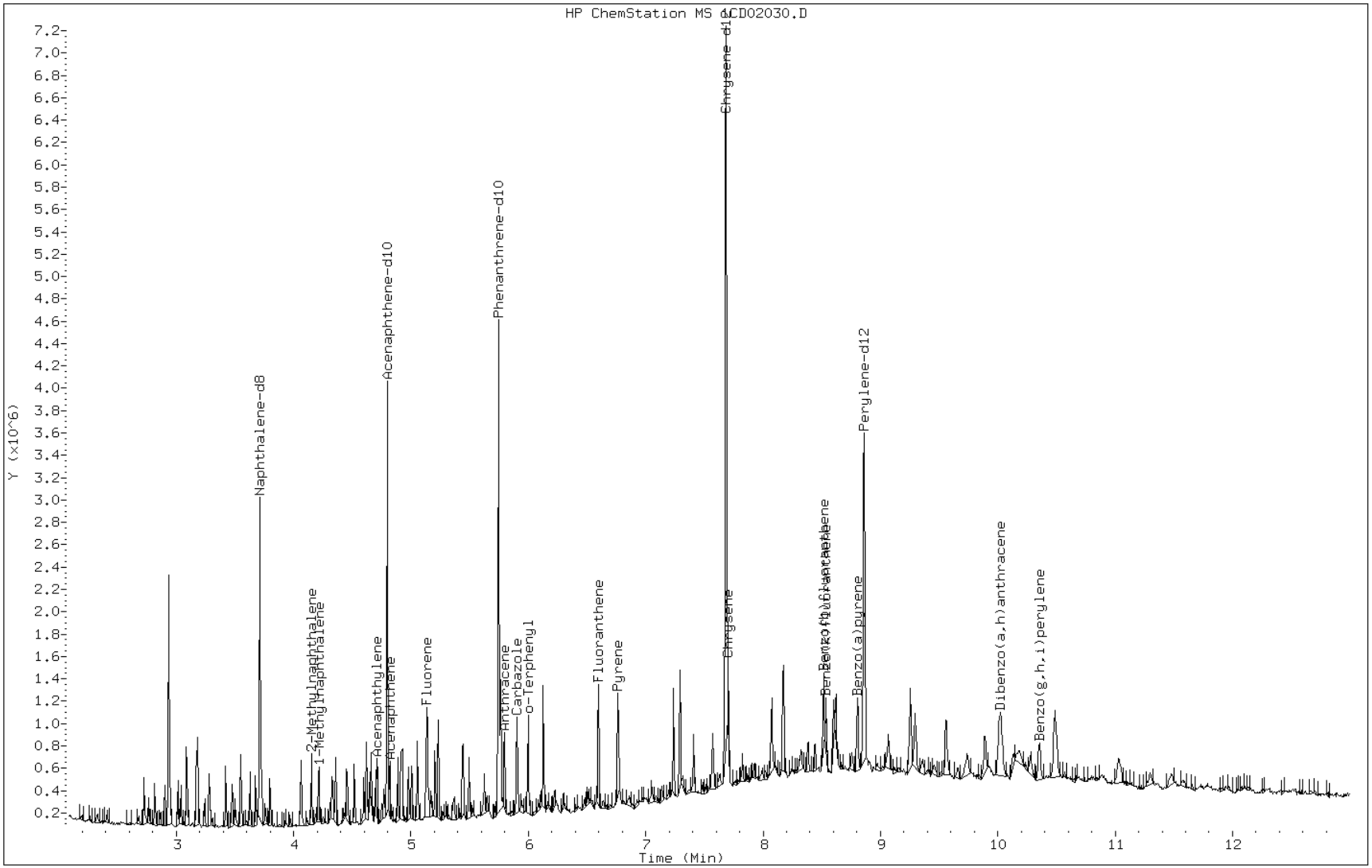
M - Compound response manually integrated.

Data File: 1CD02030.D

Date: 02-APR-2013 21:14

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-c msd Operator: SCC



Manual Integration Report

Data File: 1CD02030.D
Inj. Date and Time: 02-APR-2013 21:14
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

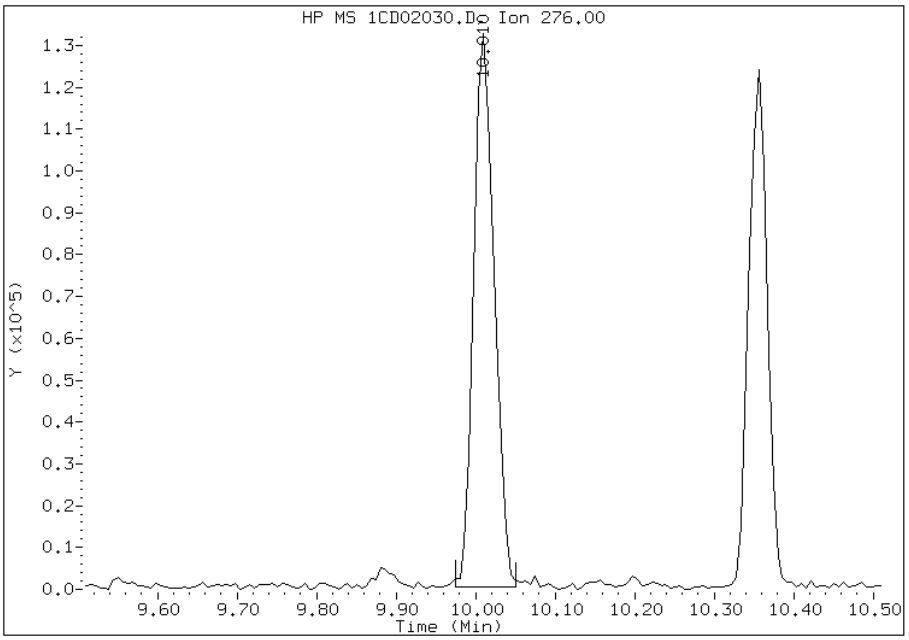
Processing Integration Results

RT: 10.01

Response: 234569

Amount: 8

Conc: 558



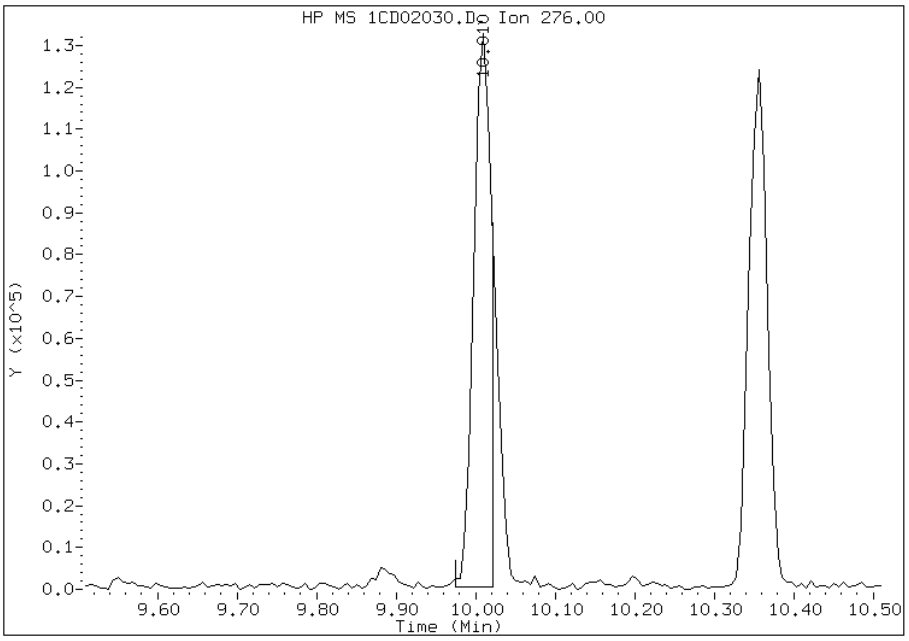
Manual Integration Results

RT: 10.01

Response: 199356

Amount: 7

Conc: 474



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:35
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: BSMC5973 Start Date: 02/22/2013 11:04

Analysis Batch Number: 134776 End Date: 02/22/2013 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:04	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 11:23	1		DB-5MS 250(um)
DFTPP 660-134776/2		02/22/2013 11:41	1	1CB22002.D	DB-5MS 250(um)
IC 660-134776/3		02/22/2013 11:57	1	1CB22003.D	DB-5MS 250(um)
IC 660-134776/4		02/22/2013 12:16	1	1CB22004.D	DB-5MS 250(um)
IC 660-134776/5		02/22/2013 12:34	1	1CB22005.D	DB-5MS 250(um)
IC 660-134776/6		02/22/2013 12:53	1	1CB22006.D	DB-5MS 250(um)
ICIS 660-134776/7		02/22/2013 13:11	1	1CB22007.D	DB-5MS 250(um)
IC 660-134776/8		02/22/2013 13:29	1	1CB22008.D	DB-5MS 250(um)
IC 660-134776/9		02/22/2013 13:48	1	1CB22009.D	DB-5MS 250(um)
ICV 660-134776/10		02/22/2013 14:06	1	1CB22010.D	DB-5MS 250(um)
ZZZZZ		02/22/2013 14:26	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 14:45	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:03	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:21	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:40	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:58	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:16	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:34	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:53	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:11	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:29	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:48	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:06	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:24	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:43	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:01	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:19	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:38	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: BSMC5973 Start Date: 03/28/2013 11:06

Analysis Batch Number: 135902 End Date: 03/28/2013 23:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/28/2013 11:06	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 11:24	1		DB-5MS 250(um)
DFTPP 660-135902/2		03/28/2013 11:42	1	1CC28002.D	DB-5MS 250(um)
CCVIS 660-135902/3		03/28/2013 11:59	1	1CC28003.D	DB-5MS 250(um)
ZZZZZ		03/28/2013 12:20	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 12:38	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 12:56	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 13:14	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 13:33	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 13:51	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 14:10	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 14:28	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 14:46	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 15:04	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 15:23	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 15:41	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 15:59	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 16:18	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 16:36	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 16:54	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 17:12	4		DB-5MS 250(um)
ZZZZZ		03/28/2013 17:31	4		DB-5MS 250(um)
ZZZZZ		03/28/2013 17:49	4		DB-5MS 250(um)
ZZZZZ		03/28/2013 18:08	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 18:26	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 18:44	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 19:03	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 19:21	4		DB-5MS 250(um)
ZZZZZ		03/28/2013 19:39	4		DB-5MS 250(um)
ZZZZZ		03/28/2013 19:57	4		DB-5MS 250(um)
ZZZZZ		03/28/2013 20:16	4		DB-5MS 250(um)
ZZZZZ		03/28/2013 20:34	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 20:52	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 21:11	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 21:29	4		DB-5MS 250(um)
ZZZZZ		03/28/2013 21:47	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 22:06	4		DB-5MS 250(um)
ZZZZZ		03/28/2013 22:24	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 22:42	1		DB-5MS 250(um)
680-88632-22	CV0476B-CS-SP	03/28/2013 23:00	1	1CC28039.D	DB-5MS 250(um)
680-88632-23	CV0566A-CS-SP	03/28/2013 23:19	1	1CC28040.D	DB-5MS 250(um)
680-88632-24	CV0566B-CS-SP	03/28/2013 23:37	1	1CC28041.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: BSMC5973 Start Date: 04/01/2013 10:38

Analysis Batch Number: 135996 End Date: 04/01/2013 21:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/01/2013 10:38	1		DB-5MS 250(um)
ZZZZZ		04/01/2013 10:56	1		DB-5MS 250(um)
DFTPP 660-135996/2		04/01/2013 11:14	1	1CD01002.D	DB-5MS 250(um)
CCVIS 660-135996/3		04/01/2013 11:31	1	1CD01003.D	DB-5MS 250(um)
ZZZZZ		04/01/2013 11:52	1		DB-5MS 250(um)
ZZZZZ		04/01/2013 12:11	1		DB-5MS 250(um)
ZZZZZ		04/01/2013 12:29	1		DB-5MS 250(um)
ZZZZZ		04/01/2013 12:47	1		DB-5MS 250(um)
ZZZZZ		04/01/2013 13:06	1		DB-5MS 250(um)
ZZZZZ		04/01/2013 13:24	1		DB-5MS 250(um)
ZZZZZ		04/01/2013 13:42	1		DB-5MS 250(um)
ZZZZZ		04/01/2013 14:15	1		DB-5MS 250(um)
ZZZZZ		04/01/2013 14:33	4		DB-5MS 250(um)
MB 660-135843/1-A		04/01/2013 14:52	1	1CD01013.D	DB-5MS 250(um)
LCS 660-135843/2-A		04/01/2013 15:10	1	1CD01014.D	DB-5MS 250(um)
ZZZZZ		04/01/2013 15:28	4		DB-5MS 250(um)
680-88632-A-10-D MS		04/01/2013 15:47	4	1CD01016.D	DB-5MS 250(um)
680-88632-A-10-C MSD		04/01/2013 16:05	4	1CD01017.D	DB-5MS 250(um)
680-88632-25	CV0663A-CS-SP	04/01/2013 16:23	4	1CD01018.D	DB-5MS 250(um)
680-88632-26	CV0663B-CS-SP	04/01/2013 16:41	4	1CD01019.D	DB-5MS 250(um)
680-88632-27	FM0017A-CS-SP	04/01/2013 17:00	4	1CD01020.D	DB-5MS 250(um)
680-88632-28	FM0017B-CS-SP	04/01/2013 17:18	4	1CD01021.D	DB-5MS 250(um)
680-88632-29	FM0017C-CS-SP	04/01/2013 17:37	4	1CD01022.D	DB-5MS 250(um)
680-88632-30	FM0017D-CS-SP	04/01/2013 17:55	4	1CD01023.D	DB-5MS 250(um)
680-88632-31	CV0197A-CS	04/01/2013 18:13	4	1CD01024.D	DB-5MS 250(um)
680-88632-32	CV0197B-CS	04/01/2013 18:31	4	1CD01025.D	DB-5MS 250(um)
680-88632-33	CV0197B-CSD	04/01/2013 18:50	4	1CD01026.D	DB-5MS 250(um)
680-88632-34	CV0197C-CS	04/01/2013 19:08	4	1CD01027.D	DB-5MS 250(um)
680-88632-35	CV0813A-CS	04/01/2013 19:26	4	1CD01028.D	DB-5MS 250(um)
680-88632-36	CV0813B-CS	04/01/2013 19:44	4	1CD01029.D	DB-5MS 250(um)
680-88632-37	FM0346A-CS	04/01/2013 20:03	1	1CD01030.D	DB-5MS 250(um)
680-88632-38	FM0346B-CS	04/01/2013 20:21	4	1CD01031.D	DB-5MS 250(um)
680-88632-39	HP0323A-CS	04/01/2013 20:39	1	1CD01032.D	DB-5MS 250(um)
680-88632-40	HP0323B-CS	04/01/2013 20:58	4	1CD01033.D	DB-5MS 250(um)
ZZZZZ		04/01/2013 21:16	4		DB-5MS 250(um)
ZZZZZ		04/01/2013 21:34	4		DB-5MS 250(um)
ZZZZZ		04/01/2013 21:53	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

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.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: BSMC5973 Start Date: 04/02/2013 16:01

Analysis Batch Number: 136079 End Date: 04/03/2013 00:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 660-136079/1		04/02/2013 16:01	1		DB-5MS 250(um)
DFTPP 660-136079/2		04/02/2013 16:23	1	1CD02014.D	DB-5MS 250(um)
CCVIS 660-136079/3		04/02/2013 16:40	1	1CD02015.D	DB-5MS 250(um)
ZZZZZ		04/02/2013 16:58	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 17:16	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 17:35	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 17:53	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 18:11	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 18:29	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 18:48	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 19:06	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 19:24	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 19:42	1		DB-5MS 250(um)
MB 660-135924/1-A		04/02/2013 20:01	1	1CD02026.D	DB-5MS 250(um)
LCS 660-135924/2-A		04/02/2013 20:19	1	1CD02027.D	DB-5MS 250(um)
680-88632-21	CV0476A-CS-SP	04/02/2013 20:37	1	1CD02028.D	DB-5MS 250(um)
680-88632-21 MS	CV0476A-CS-SP MS	04/02/2013 20:56	1	1CD02029.D	DB-5MS 250(um)
680-88632-21 MSD	CV0476A-CS-SP MSD	04/02/2013 21:14	1	1CD02030.D	DB-5MS 250(um)
ZZZZZ		04/02/2013 21:32	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 21:51	4		DB-5MS 250(um)
ZZZZZ		04/02/2013 22:09	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 22:27	4		DB-5MS 250(um)
ZZZZZ		04/02/2013 22:46	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 23:04	4		DB-5MS 250(um)
ZZZZZ		04/02/2013 23:22	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 23:41	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 23:59	4		DB-5MS 250(um)
ZZZZZ		04/03/2013 00:17	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: BSMD5973 Start Date: 02/22/2013 11:10

Analysis Batch Number: 134781 End Date: 02/22/2013 20:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:10	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 11:33	1		DB-5MS 250(um)
DFTPP 660-134781/2		02/22/2013 11:57	1	1DB22002.D	DB-5MS 250(um)
IC 660-134781/3		02/22/2013 12:13	1	1DB22003.D	DB-5MS 250(um)
IC 660-134781/4		02/22/2013 12:35	1	1DB22004.D	DB-5MS 250(um)
IC 660-134781/5		02/22/2013 12:58	1	1DB22005.D	DB-5MS 250(um)
IC 660-134781/6		02/22/2013 13:21	1	1DB22006.D	DB-5MS 250(um)
ICIS 660-134781/7		02/22/2013 13:43	1	1DB22007.D	DB-5MS 250(um)
IC 660-134781/8		02/22/2013 14:06	1	1DB22008.D	DB-5MS 250(um)
IC 660-134781/9		02/22/2013 14:28	1	1DB22009.D	DB-5MS 250(um)
ICV 660-134781/10		02/22/2013 14:51	1	1DB22010.D	DB-5MS 250(um)
ZZZZZ		02/22/2013 15:33	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:56	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:21	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:44	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:19	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:42	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:04	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:27	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:49	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:12	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:34	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:57	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 20:19	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 20:42	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: BSMD5973 Start Date: 03/28/2013 11:09

Analysis Batch Number: 136038 End Date: 03/28/2013 21:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/28/2013 11:09	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 11:35	1		DB-5MS 250(um)
DFTPP 660-136038/2		03/28/2013 12:00	1	1DC28002.D	DB-5MS 250(um)
CCVIS 660-136038/3		03/28/2013 12:18	1		DB-5MS 250(um)
CCV 660-136038/4		03/28/2013 12:53	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 13:18	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 13:45	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 14:11	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 14:35	1		DB-5MS 250(um)
CCVIS 660-136038/9		03/28/2013 14:57	1	1DC28009.D	DB-5MS 250(um)
ZZZZZ		03/28/2013 15:20	1		DB-5MS 250(um)
MB 660-135822/1-A		03/28/2013 15:42	1	1DC28011.D	DB-5MS 250(um)
LCS 660-135822/2-A		03/28/2013 16:05	1	1DC28012.D	DB-5MS 250(um)
ZZZZZ		03/28/2013 16:27	4		DB-5MS 250(um)
680-88592-A-21-B MS		03/28/2013 16:50	4	1DC28014.D	DB-5MS 250(um)
680-88592-A-21-C MSD		03/28/2013 17:12	4	1DC28015.D	DB-5MS 250(um)
ZZZZZ		03/28/2013 17:35	4		DB-5MS 250(um)
ZZZZZ		03/28/2013 17:57	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 18:20	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 18:42	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 19:05	4		DB-5MS 250(um)
ZZZZZ		03/28/2013 19:27	4		DB-5MS 250(um)
ZZZZZ		03/28/2013 19:50	4		DB-5MS 250(um)
ZZZZZ		03/28/2013 20:12	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 20:35	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 20:57	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 21:20	1		DB-5MS 250(um)
ZZZZZ		03/28/2013 21:42	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Batch Number: 135822 Batch Start Date: 03/27/13 11:19 Batch Analyst:

Batch Method: 3546 Batch End Date: 03/27/13 16:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178
MB 660-135822/1		3546, 8270C LL		15.15 g	1 mL		1 mL
LCS 660-135822/2		3546, 8270C LL		14.93 g	1 mL	1 mL	1 mL
680-88592-A-21 MS		3546, 8270C LL	T	14.75 g	1 mL	1 mL	1 mL
680-88592-A-21 MSD		3546, 8270C LL	T	14.54 g	1 mL	1 mL	1 mL
680-88632-A-22	CV0476B-CS-SP	3546, 8270C LL	T	14.60 g	1 mL		1 mL
680-88632-A-23	CV0566A-CS-SP	3546, 8270C LL	T	14.83 g	1 mL		1 mL
680-88632-A-24	CV0566B-CS-SP	3546, 8270C LL	T	15.34 g	1 mL		1 mL

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RN
Exchange Solvent Lot #	EX-DCM BOT 24
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55/ EX-DCM BOT 24
MeCl2/Acetone Lot #	DCM/ACETON 52
Microwave Start Time	12:00 3/27/13
Microwave Stop Time	12:35 3/27/13
Na2SO4 Lot Number	EX-NA2S04A 64
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	RN
SOP Number	TP-EX014
Person who witnessed spiking	SC
Surrogate Lot Number	EXLLSURINT 178
Water Bath ID	TURBOVAP2 1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

8270C LL

Nolan, Ryan

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Batch Number: 135843 Batch Start Date: 03/27/13 15:04 Batch Analyst:

Batch Method: 3546 Batch End Date: 03/28/13 10:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178
MB 660-135843/1		3546, 8270C LL		15.09 g	1 mL		1 mL
LCS 660-135843/2		3546, 8270C LL		14.96 g	1 mL	1 mL	1 mL
680-88632-A-10 MS		3546, 8270C LL	T	14.97 g	1 mL	1 mL	1 mL
680-88632-A-10 MSD		3546, 8270C LL	T	14.94 g	1 mL	1 mL	1 mL
680-88632-A-25	CV0663A-CS-SP	3546, 8270C LL	T	14.91 g	1 mL		1 mL
680-88632-A-26	CV0663B-CS-SP	3546, 8270C LL	T	14.97 g	1 mL		1 mL
680-88632-A-27	FM0017A-CS-SP	3546, 8270C LL	T	15.08 g	1 mL		1 mL
680-88632-A-28	FM0017B-CS-SP	3546, 8270C LL	T	14.98 g	1 mL		1 mL
680-88632-A-29	FM0017C-CS-SP	3546, 8270C LL	T	15.01 g	1 mL		1 mL
680-88632-A-30	FM0017D-CS-SP	3546, 8270C LL	T	15.14 g	1 mL		1 mL
680-88632-A-31	CV0197A-CS	3546, 8270C LL	T	14.96 g	1 mL		1 mL
680-88632-A-32	CV0197B-CS	3546, 8270C LL	T	14.93 g	1 mL		1 mL
680-88632-A-33	CV0197B-CSD	3546, 8270C LL	T	15.08 g	1 mL		1 mL
680-88632-A-34	CV0197C-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL
680-88632-A-35	CV0813A-CS	3546, 8270C LL	T	14.94 g	1 mL		1 mL
680-88632-A-36	CV0813B-CS	3546, 8270C LL	T	15.22 g	1 mL		1 mL
680-88632-A-37	FM0346A-CS	3546, 8270C LL	T	14.96 g	1 mL		1 mL
680-88632-A-38	FM0346B-CS	3546, 8270C LL	T	14.94 g	1 mL		1 mL
680-88632-A-39	HP0323A-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL
680-88632-A-40	HP0323B-CS	3546, 8270C LL	T	14.98 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
this reagent.

8270C LL

Cerome, Saurel

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Batch Number: 135843 Batch Start Date: 03/27/13 15:04 Batch Analyst:

Batch Method: 3546 Batch End Date: 03/28/13 10:20

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RN
Exchange Solvent Lot #	EX-DCM BOT 24
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
Sulfuric Acid Lot Number	N/.A
Hydromatrix Lot #	N./A
MeCL2 Lot #	EX-DCM BOT 24
MeCl2/Acetone Lot #	DCM/ACETON 54
Microwave Start Time	16:30 3/27/13
Microwave Stop Time	17:05 3/27/13
Na2SO4 Lot Number	EX-NA2S04A 64
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	SAUREL
SOP Number	TP EX014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT178
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

8270C LL

Cerome, Saurel

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Batch Number: 135924 Batch Start Date: 03/29/13 10:19 Batch Analyst:

Batch Method: 3546 Batch End Date: 03/29/13 15:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178
MB 660-135924/1		3546, 8270C LL		15.12 g	1 mL		1 mL
LCS 660-135924/2		3546, 8270C LL		15.01 g	1 mL	1 mL	1 mL
680-88632-A-21	CV0476A-CS-SP	3546, 8270C LL	T	15.47 g	1 mL		1 mL
680-88632-A-21 MS	CV0476A-CS-SP	3546, 8270C LL	T	15.01 g	1 mL	1 mL	1 mL
680-88632-A-21 MSD	CV0476A-CS-SP	3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	EX-DCM/ACETON 53
Microwave Start Time	12:00 3/29/13
Microwave Stop Time	12:30 3/29/13
Na2SO4 Lot Number	EX-NA2S04A 64
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	RN
SOP Number	TP-EX014
Person who witnessed spiking	SC
Surrogate Lot Number	EXLLSURINT 178
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

8270C LL

Nolan, Ryan

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88632-2

SDG No.: 68088632-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0476A-CS-SP	680-88632-21
CV0476B-CS-SP	680-88632-22
CV0566A-CS-SP	680-88632-23
CV0566B-CS-SP	680-88632-24
CV0663A-CS-SP	680-88632-25
CV0663B-CS-SP	680-88632-26
FM0017A-CS-SP	680-88632-27
FM0017B-CS-SP	680-88632-28
FM0017C-CS-SP	680-88632-29
FM0017D-CS-SP	680-88632-30
CV0197A-CS	680-88632-31
CV0197B-CS	680-88632-32
CV0197B-CSD	680-88632-33
CV0197C-CS	680-88632-34
CV0813A-CS	680-88632-35
CV0813B-CS	680-88632-36
FM0346A-CS	680-88632-37
FM0346B-CS	680-88632-38
HP0323A-CS	680-88632-39
HP0323B-CS	680-88632-40

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88632-2

SDG Number: 68088632-2

Matrix: Solid Instrument ID: Moisture

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88632-2

SDG Number: 68088632-2

Matrix: Solid Instrument ID: Moisture

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88632-2

SDG Number: 68088632-2

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88632-2

SDG Number: 68088632-2

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: Moisture Method: Moisture

Start Date: 03/26/2013 06:22 End Date: 03/26/2013 14:16

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-135794/11	1	T	06:22	X																			
LCS 660-135794/1	1	T	06:24	X																			
ZZZZZZ			12:21																				
ZZZZZZ			12:23																				
ZZZZZZ			12:39																				
680-88632-36	1	T	12:46	X																			
ZZZZZZ			12:57																				
ZZZZZZ			13:15																				
680-88632-39	1	T	13:17	X																			
ZZZZZZ			14:15																				
ZZZZZZ			14:16																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/26/2013 12:38 End Date: 03/26/2013 12:38

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
680-88632-22	1	T	12:38	X																			
ZZZZZZ			12:38																				
680-88632-26	1	T	12:38	X																			
ZZZZZZ			12:38																				
680-88632-A-45 MS	1	T	12:38	X																			
680-88632-A-45 MSD	1	T	12:38	X																			
ZZZZZZ			12:38																				
680-88632-21	1	T	12:38	X																			
680-88632-21 MS	1	T	12:38	X																			
680-88632-21 MSD	1	T	12:38	X																			
680-88632-33	1	T	12:38	X																			
ZZZZZZ			12:38																				
680-88632-32	1	T	12:38	X																			
ZZZZZZ			12:38																				
680-88632-A-10 MS	1	T	12:38	X																			
680-88632-A-10 MSD	1	T	12:38	X																			
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
680-88632-38	1	T	12:38	X																			
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
680-88632-35	1	T	12:38	X																			
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
680-88632-23	1	T	12:38	X																			
680-88632-25	1	T	12:38	X																			
680-88632-24	1	T	12:38	X																			
680-88632-34	1	T	12:38	X																			
680-88632-29	1	T	12:38	X																			
680-88632-37	1	T	12:38	X																			
680-88632-40	1	T	12:38	X																			
680-88632-28	1	T	12:38	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/26/2013 12:38 End Date: 03/26/2013 12:38

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
680-88632-27	1	T	12:38	X																			
680-88632-31	1	T	12:38	X																			
680-88632-30	1	T	12:38	X																			
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Batch Number: 135786 Batch Start Date: 03/26/13 12:38 Batch Analyst:

Batch Method: Moisture Batch End Date: 03/27/13 06:47

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry
680-88632-A-22	CV0476B-CS-SP	Moisture	T	1	0 g	4.15 g	3.38 g
680-88632-A-26	CV0663B-CS-SP	Moisture	T	3	0 g	4.62 g	3.41 g
680-88632-A-45 MS		Moisture	T	4	0 g	4.30 g	3.53 g
680-88632-A-45 MSD		Moisture	T	4	0 g	4.30 g	3.53 g
680-88632-A-21	CV0476A-CS-SP	Moisture	T	6	0 g	4.88 g	3.98 g
680-88632-A-21 MS	CV0476A-CS-SP	Moisture	T	6	0 g	4.88 g	3.98 g
680-88632-A-21 MSD	CV0476A-CS-SP	Moisture	T	6	0 g	4.88 g	3.98 g
680-88632-A-33	CV0197B-CSD	Moisture	T	7	0 g	4.66 g	3.08 g
680-88632-A-32	CV0197B-CS	Moisture	T	9	0 g	4.70 g	3.07 g
680-88632-A-10 MS		Moisture	T	10	0 g	4.73 g	3.71 g
680-88632-A-10 MSD		Moisture	T	10	0 g	4.73 g	3.71 g
680-88632-A-38	FM0346B-CS	Moisture	T	14	0 g	4.24 g	3.06 g
680-88632-A-35	CV0813A-CS	Moisture	T	21	0 g	5.22 g	4.31 g
680-88632-A-23	CV0566A-CS-SP	Moisture	T	29	0 g	4.83 g	3.58 g
680-88632-A-25	CV0663A-CS-SP	Moisture	T	30	0 g	4.53 g	3.71 g
680-88632-A-24	CV0566B-CS-SP	Moisture	T	31	0 g	4.78 g	3.76 g
680-88632-A-34	CV0197C-CS	Moisture	T	32	0 g	4.12 g	2.86 g
680-88632-A-29	FM0017C-CS-SP	Moisture	T	33	0 g	5.08 g	3.91 g
680-88632-A-37	FM0346A-CS	Moisture	T	34	0 g	4.48 g	3.60 g
680-88632-A-40	HP0323B-CS	Moisture	T	35	0 g	5.27 g	4.08 g
680-88632-A-28	FM0017B-CS-SP	Moisture	T	36	0 g	4.62 g	3.48 g
680-88632-A-27	FM0017A-CS-SP	Moisture	T	37	0 g	4.82 g	3.99 g
680-88632-A-31	CV0197A-CS	Moisture	T	38	0 g	4.28 g	2.91 g
680-88632-A-30	FM0017D-CS-SP	Moisture	T	39	0 g	4.93 g	3.75 g

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	3.26.13
Date samples were removed from oven	3.27.13

Basis	Basis Description
T	Total/NA

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

Galio, Andrew

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-2

SDG No.: 68088632-2

Batch Number: 135794 Batch Start Date: 03/26/13 06:22 Batch Analyst:

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry	
LCS 660-135794/1		Moisture		0 g	10.019 g	9.01 g	
680-88632-A-39	HP0323A-CS	Moisture	T	0 g	4.404 g	3.473 g	
680-88632-A-36	CV0813B-CS	Moisture	T	0 g	4.134 g	3.223 g	
LCSD 660-135794/11		Moisture		0 g	10.034 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
this reagent.

Moisture

Galio, Andrew

Shipping and Receiving Documents

Serial Number 63569

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: Lisa Harven

P.O. NUMBER:

CONTRACT NO.:

CLIENT FAX:

(b) (6)
(b) (6)

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; RCRA8 Metals

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	RCRA8 Metals									REMARKS
3-21-13	0929	FM0312A-CS-SP	C		X			X										
	0932	FM0312B-CS-SP	C		X			X										
	0951	FM0312C-CS-SP	C		X			X										
	0945	FM0312D-CS-SP	C		X			X										
	0816	~~FM0368A-CS-SP~~ CN0368A-CS-SP	C		X			X										
	0832	~~FM0368B-CS-SP~~ CN0368B-CS-SP	C		X			X										
	1457	CN0443A-CS-SP	C		X			X										
	1459	CN0443B-CS-SP	C		X			X										
	1535	CN0476A-CS-SP	C		X			X										
	1544	CN0476B-CS-SP	C		X			X										
	1601	CN0566A-CS-SP	C		X			X	X									
	1610	CN0566B-CS-SP	C		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3-22-13	1130						
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]	03/23/13	0939	YES ○ NO ○		680-88632	1.2°

TAL8240-680 (1008)

Serial Number 63570

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	AZ	3	4

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

ENT FAX

(b) (6)

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:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	27 PAH	RCRA 8 Metals									REMARKS
								PRESERVATIVE										
								NUMBER OF CONTAINERS SUBMITTED										
3-21-13	1315	CV0663A-CS-SP	C		X			X										
	1320	CV0663B-CS-SP	C		X			X										
	1355	FM0017A-CS-SP	C		X			X										
	1405	FM0017B-CS-SP	C		X			X										
	1400	FM0017C-CS-SP	C		X			X	X									
	1410	FM0017D-CS-SP	C		X			X										
	1330	CV0197A-CS	C		X			X										
	1345	CV0197B-CS	C		X			X										
	1345	CV0197B-CSD	C		X			X										
	1350	CV0197C-CS	C		X			X	X									
	1420	CV0813A-CS	C		X			X										
	1430	CV0813B-CS	C		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3-22-13 1130	1130						
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]	03/23/13	0939	YES ○ NO ○		680-88632	1.2c

TAL8240-680 (1008)

Serial Number 63571

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 200548-1356
PROJECT LOCATION (STATE): AL
PAGE 4 OF 4

TAL (LAB) PROJECT MANAGER: Lisa Harven
P.O. NUMBER:
CONTRACT NO.:
CLIENT FAX:

(b) (6)
(b) (6)

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:

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	1L PAH	RCRA8 Metals									REMARKS
3-21-13	1520	FM0346A-CS	C		X			X										
	1540	FM0346B-CS	C		X			X										
	1600	HP0323A-CS	C		X			X										
	1610	HP0323B-CS	C		X			X										
	1400	FM0017C-GS-SP-sieve							X									
	1350	CV0197C-CS-sieve							X									
	1135	CV0090B-CS-sp-sieve							X									
	1601	CV0566A-CS-sp-sieve							X									

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Anglin	3-22-13	1130						
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
	03/23/13	0939	YES ○ NO ○		680-88632	1.2c

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-2
SDG Number: 68088632-2

Login Number: 88632
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

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

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-2
SDG Number: 68088632-2

Login Number: 88632
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 03/26/13 12:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

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: 680-88632-2
TestAmerica Sample Delivery Group: 68088632-2
Client Project/Site: 35th Avenue Superfund Site

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

Attn: Ms. Limari F Krebs

Authorized for release by:
4/4/2013 8:55:54 AM
Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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

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

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

Job ID: 680-88632-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88632-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0476A-CS-SP (680-88632-21), CV0476B-CS-SP (680-88632-22), CV0566A-CS-SP (680-88632-23), CV0566B-CS-SP (680-88632-24), CV0663A-CS-SP (680-88632-25), CV0663B-CS-SP (680-88632-26), FM0017A-CS-SP (680-88632-27), FM0017B-CS-SP (680-88632-28), FM0017C-CS-SP (680-88632-29), FM0017D-CS-SP (680-88632-30), CV0197A-CS (680-88632-31), CV0197B-CS (680-88632-32), CV0197B-CSD (680-88632-33), CV0197C-CS (680-88632-34), CV0813A-CS (680-88632-35), CV0813B-CS (680-88632-36), FM0346A-CS (680-88632-37), FM0346B-CS (680-88632-38), HP0323A-CS (680-88632-39) and HP0323B-CS (680-88632-40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/27/2013 and 03/29/2013 and analyzed on 03/28/2013, 04/01/2013 and 04/02/2013.

Samples CV0663A-CS-SP (680-88632-25)[4X], CV0663B-CS-SP (680-88632-26)[4X], FM0017A-CS-SP (680-88632-27)[4X], FM0017B-CS-SP (680-88632-28)[4X], FM0017C-CS-SP (680-88632-29)[4X], FM0017D-CS-SP (680-88632-30)[4X], CV0197A-CS (680-88632-31)[4X], CV0197B-CS (680-88632-32)[4X], CV0197B-CSD (680-88632-33)[4X], CV0197C-CS (680-88632-34)[4X], CV0813A-CS (680-88632-35)[4X], CV0813B-CS (680-88632-36)[4X], FM0346B-CS (680-88632-38)[4X] and HP0323B-CS (680-88632-40)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88632-10 in batch 660-135996. Several analytes also exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88592-21 in batch 660-136038.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

Sample Summary

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88632-21	CV0476A-CS-SP	Solid	03/21/13 15:35	03/23/13 09:39
680-88632-22	CV0476B-CS-SP	Solid	03/21/13 15:44	03/23/13 09:39
680-88632-23	CV0566A-CS-SP	Solid	03/21/13 16:01	03/23/13 09:39
680-88632-24	CV0566B-CS-SP	Solid	03/21/13 16:10	03/23/13 09:39
680-88632-25	CV0663A-CS-SP	Solid	03/21/13 13:15	03/23/13 09:39
680-88632-26	CV0663B-CS-SP	Solid	03/21/13 13:20	03/23/13 09:39
680-88632-27	FM0017A-CS-SP	Solid	03/21/13 13:55	03/23/13 09:39
680-88632-28	FM0017B-CS-SP	Solid	03/21/13 14:05	03/23/13 09:39
680-88632-29	FM0017C-CS-SP	Solid	03/21/13 14:00	03/23/13 09:39
680-88632-30	FM0017D-CS-SP	Solid	03/21/13 14:10	03/23/13 09:39
680-88632-31	CV0197A-CS	Solid	03/21/13 13:30	03/23/13 09:39
680-88632-32	CV0197B-CS	Solid	03/21/13 13:45	03/23/13 09:39
680-88632-33	CV0197B-CSD	Solid	03/21/13 13:45	03/23/13 09:39
680-88632-34	CV0197C-CS	Solid	03/21/13 13:50	03/23/13 09:39
680-88632-35	CV0813A-CS	Solid	03/21/13 14:20	03/23/13 09:39
680-88632-36	CV0813B-CS	Solid	03/21/13 14:30	03/23/13 09:39
680-88632-37	FM0346A-CS	Solid	03/21/13 15:20	03/23/13 09:39
680-88632-38	FM0346B-CS	Solid	03/21/13 15:40	03/23/13 09:39
680-88632-39	HP0323A-CS	Solid	03/21/13 16:00	03/23/13 09:39
680-88632-40	HP0323B-CS	Solid	03/21/13 16:10	03/23/13 09:39

Method Summary

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Definitions/Glossary

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
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 Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: CV0476A-CS-SP

Lab Sample ID: 680-88632-21
Date Collected: 03/21/13 15:35
Matrix: Solid
Date Received: 03/23/13 09:39
Percent Solids: 81.6

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	☼	03/29/13 10:19	04/02/13 20:37	1
Acenaphthylene	20	J	48	5.9	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Anthracene	14		10	5.0	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Benzo[a]anthracene	94		9.5	4.6	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Benzo[a]pyrene	97		12	6.2	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Benzo[b]fluoranthene	200		15	7.3	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Benzo[g,h,i]perylene	91		24	5.2	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Benzo[k]fluoranthene	51		9.5	4.3	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Chrysene	140		11	5.3	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Dibenz(a,h)anthracene	32		24	4.9	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Fluoranthene	140		24	4.8	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Fluorene	9.4	J	24	4.9	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Indeno[1,2,3-cd]pyrene	74		24	8.4	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
1-Methylnaphthalene	33	J	48	5.2	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
2-Methylnaphthalene	51		48	8.4	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Naphthalene	79		48	5.2	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Phenanthrene	100		9.5	4.6	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1
Pyrene	110		24	4.4	ug/Kg	☼	03/29/13 10:19	04/02/13 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*03/29/13 10:19*	*04/02/13 20:37*	*1*

Client Sample ID: CV0476B-CS-SP

Lab Sample ID: 680-88632-22
Date Collected: 03/21/13 15:44
Matrix: Solid
Date Received: 03/23/13 09:39
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	130	U	130	25	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Acenaphthylene	6.4	J	50	6.3	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Anthracene	9.6	J	11	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Benzo[a]anthracene	41		10	4.9	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Benzo[a]pyrene	33		13	6.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Benzo[b]fluoranthene	74		15	7.7	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Benzo[g,h,i]perylene	43		25	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Benzo[k]fluoranthene	16		10	4.5	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Chrysene	57		11	5.7	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Dibenz(a,h)anthracene	17	J	25	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Fluoranthene	60		25	5.0	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Fluorene	5.9	J	25	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Indeno[1,2,3-cd]pyrene	41		25	9.0	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
1-Methylnaphthalene	24	J	50	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
2-Methylnaphthalene	29	J	50	9.0	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Naphthalene	35	J	50	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Phenanthrene	47		10	4.9	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1
Pyrene	53		25	4.7	ug/Kg	☼	03/27/13 11:19	03/28/13 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*30 - 130*	*03/27/13 11:19*	*03/28/13 23:00*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: CV0566A-CS-SP

Lab Sample ID: 680-88632-23
Date Collected: 03/21/13 16:01
Matrix: Solid
Date Received: 03/23/13 09:39
Percent Solids: 74.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	J	140	27	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Acenaphthylene	19	J	55	6.8	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Anthracene	200		11	5.7	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Benzo[a]anthracene	450		11	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Benzo[a]pyrene	360		14	7.1	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Benzo[b]fluoranthene	560		17	8.3	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Benzo[g,h,i]perylene	250		27	6.0	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Benzo[k]fluoranthene	290		11	4.9	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Chrysene	440		12	6.1	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Dibenz(a,h)anthracene	93		27	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Fluoranthene	1000		27	5.5	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Fluorene	92		27	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Indeno[1,2,3-cd]pyrene	220		27	9.7	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
1-Methylnaphthalene	91		55	6.0	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
2-Methylnaphthalene	120		55	9.7	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Naphthalene	160		55	6.0	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Phenanthrene	940		11	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1
Pyrene	840		27	5.0	ug/Kg	☼	03/27/13 11:19	03/28/13 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*36*		*30 - 130*	*03/27/13 11:19*	*03/28/13 23:19*	*1*

Client Sample ID: CV0566B-CS-SP

Lab Sample ID: 680-88632-24
Date Collected: 03/21/13 16:10
Matrix: Solid
Date Received: 03/23/13 09:39
Percent Solids: 78.7

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	☼	03/27/13 11:19	03/28/13 23:37	1
Acenaphthylene	24	J	50	6.2	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Anthracene	30		10	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Benzo[a]anthracene	160		9.9	4.8	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Benzo[a]pyrene	160		13	6.5	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Benzo[b]fluoranthene	270		15	7.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Benzo[g,h,i]perylene	130		25	5.5	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Benzo[k]fluoranthene	150		9.9	4.5	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Chrysene	160		11	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Dibenz(a,h)anthracene	46		25	5.1	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Fluoranthene	290		25	5.0	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Fluorene	14	J	25	5.1	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Indeno[1,2,3-cd]pyrene	120		25	8.8	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
1-Methylnaphthalene	47	J	50	5.5	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
2-Methylnaphthalene	79		50	8.8	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Naphthalene	100		50	5.5	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Phenanthrene	180		9.9	4.8	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1
Pyrene	180		25	4.6	ug/Kg	☼	03/27/13 11:19	03/28/13 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*40*		*30 - 130*	*03/27/13 11:19*	*03/28/13 23:37*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: CV0663A-CS-SP

Lab Sample ID: 680-88632-25
Date Collected: 03/21/13 13:15
Matrix: Solid
Date Received: 03/23/13 09:39
Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Acenaphthylene	26	J	200	25	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Anthracene	83		41	21	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Benzo[a]anthracene	300		39	19	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Benzo[a]pyrene	320		51	26	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Benzo[b]fluoranthene	500		60	30	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Benzo[g,h,i]perylene	200		98	22	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Benzo[k]fluoranthene	100		39	18	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Chrysene	400		44	22	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Dibenz(a,h)anthracene	140		98	20	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Fluoranthene	440		98	20	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Fluorene	36	J	98	20	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Indeno[1,2,3-cd]pyrene	180		98	35	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
1-Methylnaphthalene	200		200	22	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
2-Methylnaphthalene	240		200	35	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Naphthalene	210		200	22	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Phenanthrene	360		39	19	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4
Pyrene	420		98	18	ug/Kg	☼	03/27/13 15:04	04/01/13 16:23	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*03/27/13 15:04*	*04/01/13 16:23*	*4*

Client Sample ID: CV0663B-CS-SP

Lab Sample ID: 680-88632-26
Date Collected: 03/21/13 13:20
Matrix: Solid
Date Received: 03/23/13 09:39
Percent Solids: 73.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Acenaphthylene	150	J	220	27	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Anthracene	180		46	23	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Benzo[a]anthracene	1000		43	21	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Benzo[a]pyrene	900		56	28	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Benzo[b]fluoranthene	1500		66	33	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Benzo[g,h,i]perylene	630		110	24	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Benzo[k]fluoranthene	590		43	20	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Chrysene	1100		49	24	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Dibenz(a,h)anthracene	230		110	22	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Fluoranthene	1500		110	22	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Fluorene	69	J	110	22	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Indeno[1,2,3-cd]pyrene	580		110	39	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
1-Methylnaphthalene	470		220	24	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
2-Methylnaphthalene	550		220	39	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Naphthalene	430		220	24	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Phenanthrene	950		43	21	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4
Pyrene	1500		110	20	ug/Kg	☼	03/27/13 15:04	04/01/13 16:41	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*30 - 130*	*03/27/13 15:04*	*04/01/13 16:41*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: FM0017A-CS-SP

Lab Sample ID: 680-88632-27
Date Collected: 03/21/13 13:55
Matrix: Solid
Date Received: 03/23/13 09:39
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	96	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Acenaphthylene	75	J	190	24	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Anthracene	41		40	20	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Benzo[a]anthracene	490		38	19	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Benzo[a]pyrene	460		50	25	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Benzo[b]fluoranthene	620		59	29	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Benzo[g,h,i]perylene	350		96	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Benzo[k]fluoranthene	280		38	17	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Chrysene	520		43	22	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Dibenz(a,h)anthracene	120		96	20	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Fluoranthene	620		96	19	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Fluorene	26	J	96	20	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Indeno[1,2,3-cd]pyrene	270		96	34	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
1-Methylnaphthalene	230		190	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
2-Methylnaphthalene	290		190	34	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Naphthalene	150	J	190	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Phenanthrene	420		38	19	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4
Pyrene	580		96	18	ug/Kg	☼	03/27/13 15:04	04/01/13 17:00	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*30 - 130*	*03/27/13 15:04*	*04/01/13 17:00*	*4*

Client Sample ID: FM0017B-CS-SP

Lab Sample ID: 680-88632-28
Date Collected: 03/21/13 14:05
Matrix: Solid
Date Received: 03/23/13 09:39
Percent Solids: 75.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Acenaphthylene	31	J	210	27	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Anthracene	44	J	45	22	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Benzo[a]anthracene	230		43	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Benzo[a]pyrene	210		55	28	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Benzo[b]fluoranthene	320		65	32	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Benzo[g,h,i]perylene	200		110	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Benzo[k]fluoranthene	140		43	19	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Chrysene	270		48	24	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Dibenz(a,h)anthracene	72	J	110	22	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Fluoranthene	370		110	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Fluorene	26	J	110	22	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Indeno[1,2,3-cd]pyrene	170		110	38	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
1-Methylnaphthalene	120	J	210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
2-Methylnaphthalene	130	J	210	38	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Naphthalene	69	J	210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Phenanthrene	290		43	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4
Pyrene	370		110	20	ug/Kg	☼	03/27/13 15:04	04/01/13 17:18	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*30 - 130*	*03/27/13 15:04*	*04/01/13 17:18*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: FM0017C-CS-SP

Lab Sample ID: 680-88632-29
Date Collected: 03/21/13 14:00
Matrix: Solid
Date Received: 03/23/13 09:39
Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Acenaphthylene	74	J	210	26	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Anthracene	43	J	44	22	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Benzo[a]anthracene	250		42	20	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Benzo[a]pyrene	220		54	27	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Benzo[b]fluoranthene	360		63	32	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Benzo[g,h,i]perylene	220		100	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Benzo[k]fluoranthene	200		42	19	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Chrysene	240		47	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Dibenz(a,h)anthracene	72	J	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Fluoranthene	300		100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Fluorene	25	J	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Indeno[1,2,3-cd]pyrene	200		100	37	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
1-Methylnaphthalene	150	J	210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
2-Methylnaphthalene	230		210	37	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Naphthalene	100	J	210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Phenanthrene	220		42	20	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4
Pyrene	230		100	19	ug/Kg	☼	03/27/13 15:04	04/01/13 17:37	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*30 - 130*	*03/27/13 15:04*	*04/01/13 17:37*	*4*

Client Sample ID: FM0017D-CS-SP

Lab Sample ID: 680-88632-30
Date Collected: 03/21/13 14:10
Matrix: Solid
Date Received: 03/23/13 09:39
Percent Solids: 76.1

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	☼	03/27/13 15:04	04/01/13 17:55	4
Acenaphthylene	210	U	210	26	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Anthracene	44	U	44	22	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Benzo[a]anthracene	96		42	20	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Benzo[a]pyrene	120		54	27	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Benzo[b]fluoranthene	150		64	32	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Benzo[g,h,i]perylene	95	J	100	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Benzo[k]fluoranthene	55		42	19	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Chrysene	150		47	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Dibenz(a,h)anthracene	29	J	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Fluoranthene	170		100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Fluorene	39	J	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Indeno[1,2,3-cd]pyrene	87	J	100	37	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
1-Methylnaphthalene	300		210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
2-Methylnaphthalene	460		210	37	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Naphthalene	420		210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Phenanthrene	290		42	20	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4
Pyrene	160		100	19	ug/Kg	☼	03/27/13 15:04	04/01/13 17:55	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96*		*30 - 130*	*03/27/13 15:04*	*04/01/13 17:55*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: CV0197A-CS

Lab Sample ID: 680-88632-31

Date Collected: 03/21/13 13:30
Date Received: 03/23/13 09:39

Matrix: Solid
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	590	U	590	120	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Acenaphthylene	240	U	240	29	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Anthracene	**93**		50	25	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Benzo[a]anthracene	**440**		47	23	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Benzo[a]pyrene	**360**		61	31	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Benzo[b]fluoranthene	**510**		72	36	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Benzo[g,h,i]perylene	**280**		120	26	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Benzo[k]fluoranthene	**210**		47	21	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Chrysene	**380**		53	27	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Dibenz(a,h)anthracene	**88**	**J**	120	24	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Fluoranthene	**540**		120	24	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Fluorene	**33**	**J**	120	24	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Indeno[1,2,3-cd]pyrene	**220**		120	42	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
1-Methylnaphthalene	**130**	**J**	240	26	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
2-Methylnaphthalene	**190**	**J**	240	42	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Naphthalene	**130**	**J**	240	26	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Phenanthrene	**420**		47	23	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4
Pyrene	**560**		120	22	ug/Kg	☼	03/27/13 15:04	04/01/13 18:13	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*30 - 130*	*03/27/13 15:04*	*04/01/13 18:13*	*4*

Client Sample ID: CV0197B-CS

Lab Sample ID: 680-88632-32

Date Collected: 03/21/13 13:45
Date Received: 03/23/13 09:39

Matrix: Solid
Percent Solids: 65.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	620	U	620	120	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Acenaphthylene	**96**	**J**	250	31	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Anthracene	**110**		52	26	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Benzo[a]anthracene	**550**		49	24	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Benzo[a]pyrene	**570**		64	32	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Benzo[b]fluoranthene	**870**		75	38	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Benzo[g,h,i]perylene	**470**		120	27	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Benzo[k]fluoranthene	**440**		49	22	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Chrysene	**640**		55	28	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Dibenz(a,h)anthracene	**130**		120	25	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Fluoranthene	**1000**		120	25	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Fluorene	**49**	**J**	120	25	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Indeno[1,2,3-cd]pyrene	**330**		120	44	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
1-Methylnaphthalene	**120**	**J**	250	27	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
2-Methylnaphthalene	**190**	**J**	250	44	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Naphthalene	**160**	**J**	250	27	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Phenanthrene	**630**		49	24	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4
Pyrene	**1000**		120	23	ug/Kg	☼	03/27/13 15:04	04/01/13 18:31	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*30 - 130*	*03/27/13 15:04*	*04/01/13 18:31*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: CV0197B-CSD

Lab Sample ID: 680-88632-33
Date Collected: 03/21/13 13:45
Matrix: Solid
Date Received: 03/23/13 09:39
Percent Solids: 66.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	600	U	600	120	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Acenaphthylene	130	J	240	30	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Anthracene	200		51	25	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Benzo[a]anthracene	820		48	23	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Benzo[a]pyrene	650		63	31	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Benzo[b]fluoranthene	1000		73	37	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Benzo[g,h,i]perylene	420		120	26	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Benzo[k]fluoranthene	420		48	22	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Chrysene	720		54	27	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Dibenz(a,h)anthracene	130		120	25	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Fluoranthene	1700		120	24	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Fluorene	63	J	120	25	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Indeno[1,2,3-cd]pyrene	270		120	43	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
1-Methylnaphthalene	100	J	240	26	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
2-Methylnaphthalene	180	J	240	43	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Naphthalene	120	J	240	26	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Phenanthrene	820		48	23	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4
Pyrene	1500		120	22	ug/Kg	☼	03/27/13 15:04	04/01/13 18:50	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*03/27/13 15:04*	*04/01/13 18:50*	*4*

Client Sample ID: CV0197C-CS

Lab Sample ID: 680-88632-34
Date Collected: 03/21/13 13:50
Matrix: Solid
Date Received: 03/23/13 09:39
Percent Solids: 69.4

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	☼	03/27/13 15:04	04/01/13 19:08	4
Acenaphthylene	44	J	230	29	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Anthracene	120		49	24	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Benzo[a]anthracene	430		46	23	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Benzo[a]pyrene	390		60	30	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Benzo[b]fluoranthene	790		71	35	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Benzo[g,h,i]perylene	620		120	25	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Benzo[k]fluoranthene	200		46	21	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Chrysene	280		52	26	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Dibenz(a,h)anthracene	130		120	24	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Fluoranthene	590		120	23	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Fluorene	45	J	120	24	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Indeno[1,2,3-cd]pyrene	430		120	41	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
1-Methylnaphthalene	80	J	230	25	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
2-Methylnaphthalene	96	J	230	41	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Naphthalene	110	J	230	25	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Phenanthrene	330		46	23	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4
Pyrene	460		120	21	ug/Kg	☼	03/27/13 15:04	04/01/13 19:08	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*03/27/13 15:04*	*04/01/13 19:08*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: CV0813A-CS

Lab Sample ID: 680-88632-35
Date Collected: 03/21/13 14:20
Matrix: Solid
Date Received: 03/23/13 09:39
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	97	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Acenaphthylene	68	J	190	24	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Anthracene	54		41	20	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Benzo[a]anthracene	350		39	19	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Benzo[a]pyrene	330		51	25	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Benzo[b]fluoranthene	600		59	30	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Benzo[g,h,i]perylene	370		97	21	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Benzo[k]fluoranthene	280		39	18	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Chrysene	440		44	22	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Dibenz(a,h)anthracene	90	J	97	20	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Fluoranthene	630		97	19	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Fluorene	23	J	97	20	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Indeno[1,2,3-cd]pyrene	250		97	35	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
1-Methylnaphthalene	120	J	190	21	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
2-Methylnaphthalene	140	J	190	35	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Naphthalene	91	J	190	21	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Phenanthrene	490		39	19	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4
Pyrene	570		97	18	ug/Kg	☼	03/27/13 15:04	04/01/13 19:26	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*30 - 130*	*03/27/13 15:04*	*04/01/13 19:26*	*4*

Client Sample ID: CV0813B-CS

Lab Sample ID: 680-88632-36
Date Collected: 03/21/13 14:30
Matrix: Solid
Date Received: 03/23/13 09:39
Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Acenaphthylene	59	J	200	25	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Anthracene	94		42	21	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Benzo[a]anthracene	390		40	20	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Benzo[a]pyrene	340		53	26	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Benzo[b]fluoranthene	630		62	31	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Benzo[g,h,i]perylene	350		100	22	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Benzo[k]fluoranthene	170		40	18	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Chrysene	440		46	23	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Dibenz(a,h)anthracene	77	J	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Fluoranthene	690		100	20	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Fluorene	45	J	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Indeno[1,2,3-cd]pyrene	250		100	36	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
1-Methylnaphthalene	340		200	22	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
2-Methylnaphthalene	420		200	36	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Naphthalene	300		200	22	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Phenanthrene	630		40	20	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4
Pyrene	650		100	19	ug/Kg	☼	03/27/13 15:04	04/01/13 19:44	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*03/27/13 15:04*	*04/01/13 19:44*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: FM0346A-CS

Lab Sample ID: 680-88632-37
Date Collected: 03/21/13 15:20
Matrix: Solid
Date Received: 03/23/13 09:39
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Acenaphthylene	**8.7**	**J**	50	6.2	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Anthracene	**12**		10	5.2	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Benzo[a]anthracene	**78**		10	4.9	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Benzo[a]pyrene	**94**		13	6.5	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Benzo[b]fluoranthene	**140**		15	7.6	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Benzo[g,h,i]perylene	**78**		25	5.5	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Benzo[k]fluoranthene	**63**		10	4.5	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Chrysene	**96**		11	5.6	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Dibenz(a,h)anthracene	**25**		25	5.1	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Fluoranthene	**130**		25	5.0	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Fluorene	**7.3**	**J**	25	5.1	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Indeno[1,2,3-cd]pyrene	**68**		25	8.9	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
1-Methylnaphthalene	**24**	**J**	50	5.5	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
2-Methylnaphthalene	**29**	**J**	50	8.9	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Naphthalene	**34**	**J**	50	5.5	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Phenanthrene	**78**		10	4.9	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1
Pyrene	**130**		25	4.6	ug/Kg	☼	03/27/13 15:04	04/01/13 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*03/27/13 15:04*	*04/01/13 20:03*	*1*

Client Sample ID: FM0346B-CS

Lab Sample ID: 680-88632-38
Date Collected: 03/21/13 15:40
Matrix: Solid
Date Received: 03/23/13 09:39
Percent Solids: 72.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	560	U	560	110	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Acenaphthylene	**68**	**J**	220	28	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Anthracene	**69**		47	23	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Benzo[a]anthracene	**560**		45	22	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Benzo[a]pyrene	**490**		58	29	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Benzo[b]fluoranthene	**690**		68	34	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Benzo[g,h,i]perylene	**320**		110	24	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Benzo[k]fluoranthene	**370**		45	20	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Chrysene	**620**		50	25	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Dibenz(a,h)anthracene	**120**		110	23	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Fluoranthene	**1000**		110	22	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Fluorene	110	U	110	23	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Indeno[1,2,3-cd]pyrene	**350**		110	40	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
1-Methylnaphthalene	**85**	**J**	220	24	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
2-Methylnaphthalene	**130**	**J**	220	40	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Naphthalene	**94**	**J**	220	24	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Phenanthrene	**550**		45	22	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4
Pyrene	**900**		110	21	ug/Kg	☼	03/27/13 15:04	04/01/13 20:21	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*30 - 130*	*03/27/13 15:04*	*04/01/13 20:21*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: HP0323A-CS

Lab Sample ID: 680-88632-39
Date Collected: 03/21/13 16:00
Matrix: Solid
Date Received: 03/23/13 09:39
Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Acenaphthylene	34	J	51	6.3	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Anthracene	48		11	5.3	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Benzo[a]anthracene	270		10	4.9	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Benzo[a]pyrene	260		13	6.6	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Benzo[b]fluoranthene	480		15	7.7	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Benzo[g,h,i]perylene	210		25	5.6	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Benzo[k]fluoranthene	220		10	4.6	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Chrysene	310		11	5.7	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Dibenz(a,h)anthracene	68		25	5.2	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Fluoranthene	330		25	5.1	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Fluorene	20	J	25	5.2	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Indeno[1,2,3-cd]pyrene	200		25	9.0	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
1-Methylnaphthalene	120		51	5.6	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
2-Methylnaphthalene	130		51	9.0	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Naphthalene	120		51	5.6	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Phenanthrene	220		10	4.9	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1
Pyrene	300		25	4.7	ug/Kg	☼	03/27/13 15:04	04/01/13 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*03/27/13 15:04*	*04/01/13 20:39*	*1*

Client Sample ID: HP0323B-CS

Lab Sample ID: 680-88632-40
Date Collected: 03/21/13 16:10
Matrix: Solid
Date Received: 03/23/13 09:39
Percent Solids: 77.4

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	☼	03/27/13 15:04	04/01/13 20:58	4
Acenaphthylene	61	J	210	26	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Anthracene	89		43	22	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Benzo[a]anthracene	520		41	20	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Benzo[a]pyrene	440		54	27	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Benzo[b]fluoranthene	1000		63	32	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Benzo[g,h,i]perylene	480		100	23	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Benzo[k]fluoranthene	210		41	19	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Chrysene	670		47	23	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Dibenz(a,h)anthracene	160		100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Fluoranthene	700		100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Fluorene	45	J	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Indeno[1,2,3-cd]pyrene	450		100	37	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
1-Methylnaphthalene	170	J	210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
2-Methylnaphthalene	220		210	37	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Naphthalene	260		210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Phenanthrene	510		41	20	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4
Pyrene	660		100	19	ug/Kg	☼	03/27/13 15:04	04/01/13 20:58	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*03/27/13 15:04*	*04/01/13 20:58*	*4*

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

Lab Sample ID: MB 660-135822/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136038 — **Prep Batch: 135822**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Fluorene	20	U	20	4.1	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
2-Methylnaphthalene	40	U	40	7.0	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Naphthalene	40	U	40	4.4	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Pyrene	20	U	20	3.7	ug/Kg		03/27/13 11:19	03/28/13 15:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*03/27/13 11:19*	*03/28/13 15:42*	*1*

Lab Sample ID: LCS 660-135822/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136038 — **Prep Batch: 135822**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	670	455		ug/Kg		68	39 - 130
Acenaphthylene	670	472		ug/Kg		70	38 - 130
Anthracene	670	464		ug/Kg		69	37 - 130
Benzo[a]anthracene	670	520		ug/Kg		78	40 - 130
Benzo[a]pyrene	670	459		ug/Kg		69	49 - 130
Benzo[b]fluoranthene	670	503		ug/Kg		75	37 - 130
Benzo[g,h,i]perylene	670	486		ug/Kg		73	32 - 130
Benzo[k]fluoranthene	670	484		ug/Kg		72	32 - 130
Chrysene	670	464		ug/Kg		69	41 - 130
Dibenz(a,h)an hracene	670	527		ug/Kg		79	27 - 130
Fluoranthene	670	488		ug/Kg		73	40 - 130
Fluorene	670	491		ug/Kg		73	40 - 130
Indeno[1,2,3-cd]pyrene	670	469		ug/Kg		70	30 - 130
1-Methylnaphthalene	670	512		ug/Kg		76	31 - 130
2-Methylnaphthalene	670	499		ug/Kg		75	33 - 130
Naphthalene	670	470		ug/Kg		70	36 - 130
Phenanthrene	670	461		ug/Kg		69	42 - 130
Pyrene	670	464		ug/Kg		69	44 - 130

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

Lab Sample ID: LCS 660-135822/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136038 — **Prep Batch: 135822**

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*70*		*30 - 130*

Lab Sample ID: MB 660-135843/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135996 — **Prep Batch: 135843**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Fluorene	20	U	20	4.1	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Naphthalene	40	U	40	4.4	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Pyrene	20	U	20	3.7	ug/Kg		03/27/13 15:04	04/01/13 14:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*03/27/13 15:04*	*04/01/13 14:52*	*1*

Lab Sample ID: LCS 660-135843/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135996 — **Prep Batch: 135843**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	668	495		ug/Kg		74	39 - 130
Acenaphthylene	668	547		ug/Kg		82	38 - 130
Anthracene	668	519		ug/Kg		78	37 - 130
Benzo[a]anthracene	668	536		ug/Kg		80	40 - 130
Benzo[a]pyrene	668	483		ug/Kg		72	49 - 130
Benzo[b]fluoranthene	668	481		ug/Kg		72	37 - 130
Benzo[g,h,i]perylene	668	477		ug/Kg		71	32 - 130
Benzo[k]fluoranthene	668	573		ug/Kg		86	32 - 130
Chrysene	668	497		ug/Kg		74	41 - 130
Dibenz(a,h)an hracene	668	499		ug/Kg		75	27 - 130
Fluoranthene	668	548		ug/Kg		82	40 - 130
Fluorene	668	536		ug/Kg		80	40 - 130
Indeno[1,2,3-cd]pyrene	668	511		ug/Kg		76	30 - 130
1-Methylnaphthalene	668	593		ug/Kg		89	31 - 130

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

Lab Sample ID: LCS 660-135843/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135996 — **Prep Batch: 135843**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	668	577		ug/Kg		86	33 - 130
Naphthalene	668	539		ug/Kg		81	36 - 130
Phenanthrene	668	518		ug/Kg		78	42 - 130
Pyrene	668	556		ug/Kg		83	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*81*		*30 - 130*

Lab Sample ID: MB 660-135924/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136079 — **Prep Batch: 135924**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Fluorene	20	U	20	4.1	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
2-Methylnaphthalene	40	U	40	7.0	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Naphthalene	40	U	40	4.4	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Pyrene	20	U	20	3.7	ug/Kg		03/29/13 10:19	04/02/13 20:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*03/29/13 10:19*	*04/02/13 20:01*	*1*

Lab Sample ID: LCS 660-135924/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136079 — **Prep Batch: 135924**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	666	412		ug/Kg		62	39 - 130
Acenaphthylene	666	436		ug/Kg		65	38 - 130
Anthracene	666	447		ug/Kg		67	37 - 130
Benzo[a]anthracene	666	479		ug/Kg		72	40 - 130
Benzo[a]pyrene	666	454		ug/Kg		68	49 - 130
Benzo[b]fluoranthene	666	456		ug/Kg		68	37 - 130
Benzo[g,h,i]perylene	666	425		ug/Kg		64	32 - 130
Benzo[k]fluoranthene	666	469		ug/Kg		70	32 - 130

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

Lab Sample ID: LCS 660-135924/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136079 — **Prep Batch: 135924**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	666	447		ug/Kg		67	41 - 130
Dibenz(a,h)an hracene	666	476		ug/Kg		71	27 - 130
Fluoranthene	666	483		ug/Kg		72	40 - 130
Fluorene	666	450		ug/Kg		68	40 - 130
Indeno[1,2,3-cd]pyrene	666	403		ug/Kg		60	30 - 130
1-Methylnaphthalene	666	509		ug/Kg		76	31 - 130
2-Methylnaphthalene	666	483		ug/Kg		72	33 - 130
Naphthalene	666	461		ug/Kg		69	36 - 130
Phenanthrene	666	439		ug/Kg		66	42 - 130
Pyrene	666	509		ug/Kg		76	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*66*		*30 - 130*

Lab Sample ID: 680-88632-21 MS — **Client Sample ID: CV0476A-CS-SP**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136079 — **Prep Batch: 135924**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	120	U	817	449		ug/Kg	☼	55	39 - 130
Acenaphthylene	20	J	817	445		ug/Kg	☼	52	38 - 130
Anthracene	14		817	430		ug/Kg	☼	51	37 - 130
Benzo[a]anthracene	94		817	578		ug/Kg	☼	59	40 - 130
Benzo[a]pyrene	97		817	499		ug/Kg	☼	49	49 - 130
Benzo[b]fluoranthene	200		817	613		ug/Kg	☼	51	37 - 130
Benzo[g,h,i]perylene	91		817	463		ug/Kg	☼	46	32 - 130
Benzo[k]fluoranthene	51		817	560		ug/Kg	☼	62	32 - 130
Chrysene	140		817	553		ug/Kg	☼	51	41 - 130
Dibenz(a,h)an hracene	32		817	479		ug/Kg	☼	55	27 - 130
Fluoranthene	140		817	598		ug/Kg	☼	57	40 - 130
Fluorene	9.4	J	817	502		ug/Kg	☼	60	40 - 130
Indeno[1,2,3-cd]pyrene	74		817	413		ug/Kg	☼	42	30 - 130
1-Methylnaphthalene	33	J	817	610		ug/Kg	☼	71	31 - 130
2-Methylnaphthalene	51		817	567		ug/Kg	☼	63	33 - 130
Naphthalene	79		817	572		ug/Kg	☼	60	36 - 130
Phenanthrene	100		817	565		ug/Kg	☼	57	42 - 130
Pyrene	110		817	597		ug/Kg	☼	60	44 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*62*		*30 - 130*

Lab Sample ID: 680-88632-21 MSD — **Client Sample ID: CV0476A-CS-SP**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136079 — **Prep Batch: 135924**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	120	U	815	487		ug/Kg	☼	60	39 - 130	8	40
Acenaphthylene	20	J	815	546		ug/Kg	☼	65	38 - 130	20	40

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

Lab Sample ID: 680-88632-21 MSD | **Client Sample ID: CV0476A-CS-SP**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 136079 | **Prep Batch: 135924**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	14		815	560		ug/Kg	☼	67	37 - 130	26	40
Benzo[a]anthracene	94		815	708		ug/Kg	☼	75	40 - 130	20	40
Benzo[a]pyrene	97		815	651		ug/Kg	☼	68	49 - 130	26	40
Benzo[b]fluoranthene	200		815	797		ug/Kg	☼	73	37 - 130	26	40
Benzo[g,h,i]perylene	91		815	579		ug/Kg	☼	60	32 - 130	22	40
Benzo[k]fluoranthene	51		815	696		ug/Kg	☼	79	32 - 130	22	40
Chrysene	140		815	684		ug/Kg	☼	67	41 - 130	21	40
Dibenz(a,h)an hracene	32		815	567		ug/Kg	☼	66	27 - 130	17	40
Fluoranthene	140		815	765		ug/Kg	☼	77	40 - 130	24	40
Fluorene	9.4	J	815	538		ug/Kg	☼	65	40 - 130	7	40
Indeno[1,2,3-cd]pyrene	74		815	581		ug/Kg	☼	62	30 - 130	34	40
1-Methylnaphthalene	33	J	815	644		ug/Kg	☼	75	31 - 130	6	40
2-Methylnaphthalene	51		815	622		ug/Kg	☼	70	33 - 130	9	40
Naphthalene	79		815	608		ug/Kg	☼	65	36 - 130	6	40
Phenanthrene	100		815	684		ug/Kg	☼	71	42 - 130	19	40
Pyrene	110		815	746		ug/Kg	☼	78	44 - 130	22	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*64*		*30 - 130*

QC Association Summary

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

GC/MS Semi VOA

Prep Batch: 135822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-22	CV0476B-CS-SP	Total/NA	Solid	3546	
680-88632-23	CV0566A-CS-SP	Total/NA	Solid	3546	
680-88632-24	CV0566B-CS-SP	Total/NA	Solid	3546	
LCS 660-135822/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135822/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 135843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-25	CV0663A-CS-SP	Total/NA	Solid	3546	
680-88632-26	CV0663B-CS-SP	Total/NA	Solid	3546	
680-88632-27	FM0017A-CS-SP	Total/NA	Solid	3546	
680-88632-28	FM0017B-CS-SP	Total/NA	Solid	3546	
680-88632-29	FM0017C-CS-SP	Total/NA	Solid	3546	
680-88632-30	FM0017D-CS-SP	Total/NA	Solid	3546	
680-88632-31	CV0197A-CS	Total/NA	Solid	3546	
680-88632-32	CV0197B-CS	Total/NA	Solid	3546	
680-88632-33	CV0197B-CSD	Total/NA	Solid	3546	
680-88632-34	CV0197C-CS	Total/NA	Solid	3546	
680-88632-35	CV0813A-CS	Total/NA	Solid	3546	
680-88632-36	CV0813B-CS	Total/NA	Solid	3546	
680-88632-37	FM0346A-CS	Total/NA	Solid	3546	
680-88632-38	FM0346B-CS	Total/NA	Solid	3546	
680-88632-39	HP0323A-CS	Total/NA	Solid	3546	
680-88632-40	HP0323B-CS	Total/NA	Solid	3546	
LCS 660-135843/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135843/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 135902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-22	CV0476B-CS-SP	Total/NA	Solid	8270C LL	135822
680-88632-23	CV0566A-CS-SP	Total/NA	Solid	8270C LL	135822
680-88632-24	CV0566B-CS-SP	Total/NA	Solid	8270C LL	135822

Prep Batch: 135924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-21	CV0476A-CS-SP	Total/NA	Solid	3546	
680-88632-21 MS	CV0476A-CS-SP	Total/NA	Solid	3546	
680-88632-21 MSD	CV0476A-CS-SP	Total/NA	Solid	3546	
LCS 660-135924/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135924/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 135996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-25	CV0663A-CS-SP	Total/NA	Solid	8270C LL	135843
680-88632-26	CV0663B-CS-SP	Total/NA	Solid	8270C LL	135843
680-88632-27	FM0017A-CS-SP	Total/NA	Solid	8270C LL	135843
680-88632-28	FM0017B-CS-SP	Total/NA	Solid	8270C LL	135843
680-88632-29	FM0017C-CS-SP	Total/NA	Solid	8270C LL	135843
680-88632-30	FM0017D-CS-SP	Total/NA	Solid	8270C LL	135843
680-88632-31	CV0197A-CS	Total/NA	Solid	8270C LL	135843
680-88632-32	CV0197B-CS	Total/NA	Solid	8270C LL	135843

GC/MS Semi VOA (Continued)

Analysis Batch: 135996 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-33	CV0197B-CSD	Total/NA	Solid	8270C LL	135843
680-88632-34	CV0197C-CS	Total/NA	Solid	8270C LL	135843
680-88632-35	CV0813A-CS	Total/NA	Solid	8270C LL	135843
680-88632-36	CV0813B-CS	Total/NA	Solid	8270C LL	135843
680-88632-37	FM0346A-CS	Total/NA	Solid	8270C LL	135843
680-88632-38	FM0346B-CS	Total/NA	Solid	8270C LL	135843
680-88632-39	HP0323A-CS	Total/NA	Solid	8270C LL	135843
680-88632-40	HP0323B-CS	Total/NA	Solid	8270C LL	135843
LCS 660-135843/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135843
MB 660-135843/1-A	Method Blank	Total/NA	Solid	8270C LL	135843

Analysis Batch: 136038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-135822/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135822
MB 660-135822/1-A	Method Blank	Total/NA	Solid	8270C LL	135822

Analysis Batch: 136079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-21	CV0476A-CS-SP	Total/NA	Solid	8270C LL	135924
680-88632-21 MS	CV0476A-CS-SP	Total/NA	Solid	8270C LL	135924
680-88632-21 MSD	CV0476A-CS-SP	Total/NA	Solid	8270C LL	135924
LCS 660-135924/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135924
MB 660-135924/1-A	Method Blank	Total/NA	Solid	8270C LL	135924

General Chemistry

Analysis Batch: 135786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-21	CV0476A-CS-SP	Total/NA	Solid	Moisture	
680-88632-21 MS	CV0476A-CS-SP	Total/NA	Solid	Moisture	
680-88632-21 MSD	CV0476A-CS-SP	Total/NA	Solid	Moisture	
680-88632-22	CV0476B-CS-SP	Total/NA	Solid	Moisture	
680-88632-23	CV0566A-CS-SP	Total/NA	Solid	Moisture	
680-88632-24	CV0566B-CS-SP	Total/NA	Solid	Moisture	
680-88632-25	CV0663A-CS-SP	Total/NA	Solid	Moisture	
680-88632-26	CV0663B-CS-SP	Total/NA	Solid	Moisture	
680-88632-27	FM0017A-CS-SP	Total/NA	Solid	Moisture	
680-88632-28	FM0017B-CS-SP	Total/NA	Solid	Moisture	
680-88632-29	FM0017C-CS-SP	Total/NA	Solid	Moisture	
680-88632-30	FM0017D-CS-SP	Total/NA	Solid	Moisture	
680-88632-31	CV0197A-CS	Total/NA	Solid	Moisture	
680-88632-32	CV0197B-CS	Total/NA	Solid	Moisture	
680-88632-33	CV0197B-CSD	Total/NA	Solid	Moisture	
680-88632-34	CV0197C-CS	Total/NA	Solid	Moisture	
680-88632-35	CV0813A-CS	Total/NA	Solid	Moisture	
680-88632-37	FM0346A-CS	Total/NA	Solid	Moisture	
680-88632-38	FM0346B-CS	Total/NA	Solid	Moisture	
680-88632-40	HP0323B-CS	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 135794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-36	CV0813B-CS	Total/NA	Solid	Moisture	
680-88632-39	HP0323A-CS	Total/NA	Solid	Moisture	
LCS 660-135794/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-135794/11	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: 680-88632-2
SDG: 68088632-2

Client Sample ID: CV0476A-CS-SP — Lab Sample ID: 680-88632-21

Date Collected: 03/21/13 15:35 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 81.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135924	03/29/13 10:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136079	04/02/13 20:37	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Client Sample ID: CV0476B-CS-SP — Lab Sample ID: 680-88632-22

Date Collected: 03/21/13 15:44 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 81.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	135902	03/28/13 23:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Client Sample ID: CV0566A-CS-SP — Lab Sample ID: 680-88632-23

Date Collected: 03/21/13 16:01 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 74.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	135902	03/28/13 23:19	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Client Sample ID: CV0566B-CS-SP — Lab Sample ID: 680-88632-24

Date Collected: 03/21/13 16:10 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 78.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	135902	03/28/13 23:37	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Client Sample ID: CV0663A-CS-SP — Lab Sample ID: 680-88632-25

Date Collected: 03/21/13 13:15 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 81.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135996	04/01/13 16:23	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: CV0663B-CS-SP — Lab Sample ID: 680-88632-26

Date Collected: 03/21/13 13:20 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 73.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135996	04/01/13 16:41	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Client Sample ID: FM0017A-CS-SP — Lab Sample ID: 680-88632-27

Date Collected: 03/21/13 13:55 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 82.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135996	04/01/13 17:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Client Sample ID: FM0017B-CS-SP — Lab Sample ID: 680-88632-28

Date Collected: 03/21/13 14:05 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 75.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135996	04/01/13 17:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Client Sample ID: FM0017C-CS-SP — Lab Sample ID: 680-88632-29

Date Collected: 03/21/13 14:00 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 77.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135996	04/01/13 17:37	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Client Sample ID: FM0017D-CS-SP — Lab Sample ID: 680-88632-30

Date Collected: 03/21/13 14:10 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 76.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135996	04/01/13 17:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: CV0197A-CS — Lab Sample ID: 680-88632-31

Date Collected: 03/21/13 13:30 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 68.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135996	04/01/13 18:13	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Client Sample ID: CV0197B-CS — Lab Sample ID: 680-88632-32

Date Collected: 03/21/13 13:45 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 65.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135996	04/01/13 18:31	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Client Sample ID: CV0197B-CSD — Lab Sample ID: 680-88632-33

Date Collected: 03/21/13 13:45 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 66.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135996	04/01/13 18:50	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Client Sample ID: CV0197C-CS — Lab Sample ID: 680-88632-34

Date Collected: 03/21/13 13:50 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 69.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135996	04/01/13 19:08	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Client Sample ID: CV0813A-CS — Lab Sample ID: 680-88632-35

Date Collected: 03/21/13 14:20 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 82.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135996	04/01/13 19:26	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Client Sample ID: CV0813B-CS — Lab Sample ID: 680-88632-36

Date Collected: 03/21/13 14:30 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 78.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135996	04/01/13 19:44	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135794	03/26/13 12:46	AG	TAL TAM

Client Sample ID: FM0346A-CS — Lab Sample ID: 680-88632-37

Date Collected: 03/21/13 15:20 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 80.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135996	04/01/13 20:03	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Client Sample ID: FM0346B-CS — Lab Sample ID: 680-88632-38

Date Collected: 03/21/13 15:40 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 72.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135996	04/01/13 20:21	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Client Sample ID: HP0323A-CS — Lab Sample ID: 680-88632-39

Date Collected: 03/21/13 16:00 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 78.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135996	04/01/13 20:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135794	03/26/13 13:17	AG	TAL TAM

Client Sample ID: HP0323B-CS — Lab Sample ID: 680-88632-40

Date Collected: 03/21/13 16:10 — **Matrix: Solid**
Date Received: 03/23/13 09:39 — **Percent Solids: 77.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135996	04/01/13 20:58	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Laboratory References:

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

Serial Number 63569

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 2 OF 4
35th Ave Removal	2005148-1356	AL	
TAL (LAB) PROJECT MANAGER: Lisa Harven	P.O. NUMBER	CONTRACT NO.	
(b) (6)		CLIENT FAX	
(b) (6)			
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; RCRA 8 Metals

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	RCRA 8 Metals	REMARKS
3-21-13	0929	FM0312A-CS-SP	C		X			X		
	0932	FM0312B-CS-SP	C		X			X		
	0951	FM0312C-CS-SP	C		X			X		
	0945	FM0312D-CS-SP	C		X			X		
	0816	~~FM0368A-CS-SP~~ CV0368A-CS-SP	C		X			X		
	0832	~~FM0368B-CS-SP~~ CV0368B-CS-SP	C		X			X		
	1457	CV0443A-CS-SP	C		X			X		
	1459	CV0443B-CS-SP	C		X			X		
	1535	CV0476A-CS-SP	C		X			X		
	1544	CV0476B-CS-SP	C		X			X		
	1601	CV0566A-CS-SP	C		X			X	X	
	1610	CV0566B-CS-SP	C		X			X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Angelin	3-22-13	1130						
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
	03/23/13	0939	YES ○ NO ○		680-58632	1.2c

TAL8240-680 (1008)

Serial Number 63570

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)
(b) (6)

ENT FAX

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 3 OF 4

STANDARD REPORT DELIVERY ○

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: 11 PAH; RCRA 8 Metals

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	11 PAH	RCRA 8 Metals								REMARKS
3-21-13	1315	CV0663A-CS-SP	C		X			X									
	1320	CV0663B-CS-SP	C		X			X									
	1355	FM0017A-CS-SP	C		X			X									
	1405	FM0017B-CS-SP	C		X			X									
	1400	FM0017C-CS-SP	C		X			X	X								
	1410	FM0017D-CS-SP	C		X			X									
	1330	CV0197A-CS	C		X			X									
	1345	CV0197B-CS	C		X			X									
	1345	CV0197B-CSD	C		X			X									
	1350	CV0197C-CS	C		X			X	X								
	1420	CV0813A-CS	C		X			X									
	1430	CV0813B-CS	C		X			X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3-22-13 1130	1130						

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]	03/23/13	0939	YES ○ NO ○		680-88632	1.2c

TAL8240-680 (1008)

Serial Number 63571

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 200548-1356
PROJECT LOCATION (STATE): AL
PAGE 4 OF 4

TAL (LAB) PROJECT MANAGER: Lisa Harven
P.O. NUMBER:
CONTRACT NO.:
CLIENT FAX:

(b) (6)

CLIENT NAME:
CLIENT E-MAIL:

(b) (6)

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 / PRESERVATIVE / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	Rcra8 Metals									REMARKS
3-21-13	1520	FM0346A-CS	C		X			X										
	1540	FM0346B-CS	C		X			X										
	1600	HP0323A-CS	C		X			X										
	1610	HP0323B-CS	C		X			X										
	1400	FM0017C-GS-SP-sieve							X									
	1350	CV0197C-CS-sieve							X									
	1135	CV0090B-CS-sp-sieve							X									
	1601	CV0566A-CS-sp-sieve							X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Anglin	3-22-13	1130						
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
	03/22/13	0939	YES ◯ NO ◯		680-88632	1.2c

TAL8240-680 (1008)

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4/4/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-2
SDG Number: 68088632-2

Login Number: 88632
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-2
SDG Number: 68088632-2

Login Number: 88632
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 03/26/13 12:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Certification Summary

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

TestAmerica Job ID: 680-88632-2
SDG: 68088632-2

Laboratory: TestAmerica Savannah

All certifica ions held by this laboratory are listed. Not all cer ifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		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: 680-88632-2
SDG: 68088632-2

Laboratory: TestAmerica Tampa (Continued)

All certifica ions held by this laboratory are listed. Not all cer ifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00177	04-20-14