REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-89695-1
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	04/22/2013 & 04/23/2013
Reviewer:	Karen Marie Trujillo	Date:	05/20/2013
Concurrence[2]:	Nicole Lancaster	Date:	05/22/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 042313-RB-Sieve (680-89695-35).	

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

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 042313-RB-Sieve (680-89695-35) was collected during the week of 4/22/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-89695-2.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			• FM0323A-CSD (680-89695-2) is a field duplicate of FM0323A-CS (680-89695-1). • CV0809A-CSD (680-89695-8) is a field duplicate of CV0809A-CS (680-89695-7). • CV1202B-CSD (680-89695-11) is a field duplicate of CV1202B-CS (680-89695-10).	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to **Attachment B** (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	✓			• Instrument ID: BSMA5973 • Initial Calibration: 04/26/2013 • ICV: 04/26/13 @ 11:49 • CCV: 04/29/13 @ 12:29 • Instrument ID: BSMD5973 • Initial Calibration: 04/04/2013 • ICV: 04/04/13 @ 16:27 • CCV: 04/29/13 @ 10:53	
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		✓		ICV of 04/04/13 @ 16:27, instrument BSMD5973: Benzo[a]pyrene @-23.7 %D (Lab: ≤35.0, Project: ≤20), 76.5%R. A negative bias is indicated by the ICV	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
$r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): o If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects o If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: $\leq$20%D ($\leq$50% for poor performers) and RF ≥ 0.050 (≥ 0.010 for poor performers)): o If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects o If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds				percent difference and the analyte was detected in the associated samples[3]; therefore, J-flag sample results.	
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects.			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			• Prep Batch 136855: 680-89695-4 (CV1329A-CS), MS/MSD • Prep Batch 136834: 680-89516-21 (CV1264B-CS), MS/MSD. Lab sample 680-89516-21 is a project-specific sample (CV1264B-CS) that was selected by TestAmerica for the PAH MS/MSD analyses, and the results were reported under Job ID 680-89516-2.	
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted.		✓		CV1329A-CS (680-89695-4): • Benzo[a]anthracene @ 35 and 42 %R (40-130). Qualification of data not required[4]. • Benzo[a]pyrene @ 34 and 40 %R (49-130), J-Flag sample result. • Fluoranthene @ 36 and 44 %R (40-130). Qualification of data not required[4].	J

[3] Associated samples: 680-89695-1, -2, -3, -5, and -6
[4] The recovery of either the MS or MSD met control limits.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
• 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				• Pyrene @ 38 and 42 %R (44-130), J-Flag sample result.	
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result.	✓				
27. Were surrogate recoveries within lab/project specifications? • If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results • If 2 or more Acid or BN %R >UCL, then J-flag positive results • If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results	✓				
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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: 680-89695-1
SDG: 68089695-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89695-1	FM0323A-CS	Solid	04/22/13 13:30	04/25/13 08:40
680-89695-2	FM0323A-CSD	Solid	04/22/13 13:30	04/25/13 08:40
680-89695-3	FM0323B-CS	Solid	04/22/13 13:40	04/25/13 08:40
680-89695-4	CV1329A-CS	Solid	04/22/13 14:55	04/25/13 08:40
680-89695-5	CV0773A-CS	Solid	04/23/13 09:25	04/25/13 08:40
680-89695-6	CV0773B-CS	Solid	04/23/13 09:35	04/25/13 08:40
680-89695-7	CV0809A-CS	Solid	04/23/13 08:45	04/25/13 08:40
680-89695-8	CV0809A-CSD	Solid	04/23/13 08:45	04/25/13 08:40
680-89695-9	CV1202A-CS	Solid	04/23/13 10:10	04/25/13 08:40
680-89695-10	CV1202B-CS	Solid	04/23/13 10:20	04/25/13 08:40
680-89695-11	CV1202B-CSD	Solid	04/23/13 10:20	04/25/13 08:40
680-89695-12	CV0147A-CS-SP	Solid	04/23/13 10:33	04/25/13 08:40
680-89695-13	CV0427A-CS-SP	Solid	04/23/13 08:53	04/25/13 08:40
680-89695-14	CV0427B-CS-SP	Solid	04/23/13 09:03	04/25/13 08:40
680-89695-15	CV0718A-CS-SP	Solid	04/23/13 09:31	04/25/13 08:40
680-89695-16	CV0718B-CS-SP	Solid	04/23/13 09:44	04/25/13 08:40
680-89695-17	HP0157A-CS-SP	Solid	04/23/13 12:46	04/25/13 08:40
680-89695-18	CV0575A-CS-SP	Solid	04/23/13 13:22	04/25/13 08:40
680-89695-19	CV0927A-CS-SP	Solid	04/23/13 13:51	04/25/13 08:40
680-89695-20	CV0927B-CS-SP	Solid	04/23/13 14:03	04/25/13 08:40

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0809A-CS 680-89695-7		RL	CV0809A-CSD 680-89695-8		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene	26	J	130			130	µg/kg	650	NA	**26**	**260**	None, absolute difference ≤ 2x Avg RL
Acenaphthylene	33	J	51	60		50	µg/kg	252.5	NA	**27**	**101**	None, absolute difference ≤ 2x Avg RL
Anthracene	130		11	79		11	µg/kg	55	**49**	NA	NA	None, RPD ≤ 50%
Benzo(a)anthracene	430		10	370		10	µg/kg	50	**15**	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	370		13	370		13	µg/kg	65	**0**	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	520		16	610		15	µg/kg	77.5	**16**	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	290		26	330		25	µg/kg	127.5	**13**	NA	NA	None, RPD ≤ 50%
Benzo(k)fluoranthene	210		10	180		10	µg/kg	50	**15**	NA	NA	None, RPD ≤ 50%
Chrysene	400		12	410		11	µg/kg	57.5	**2**	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	89		26	98		25	µg/kg	127.5	NA	**9**	**51**	None, absolute difference ≤ 2x Avg RL
Fluoranthene	910		26	560		25	µg/kg	127.5	**48**	NA	NA	None, RPD ≤ 50%
Fluorene	30		26	14	J	25	µg/kg	127.5	NA	**16**	**51**	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	310		26	330		25	µg/kg	127.5	**6**	NA	NA	None, RPD ≤ 50%
1-Methylnaphthalene	35	J	51	62		50	µg/kg	252.5	NA	**27**	**101**	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	33	J	51	60		50	µg/kg	252.5	NA	**27**	**101**	None, absolute difference ≤ 2x Avg RL
Naphthalene	38	J	51	58		50	µg/kg	252.5	NA	**20**	**101**	None, absolute difference ≤ 2x Avg RL
Phenanthrene	590		10	230		10	µg/kg	50	**88**	NA	NA	**J/UJ-flag, RPD > 50%**
Pyrene	720		26	460		25	µg/kg	127.5	**44**	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
UJ - Not detected and the limit is estimated
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference

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

Evaluation of Field Duplicate Results

Attachment B

Analyte	FM0323A-CS 680-89695-1		RL	FM0323A-CSD 680-89695-2		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene			180	9.0	J	49	µg/kg	572.5	NA	**9**	**229**	None, absolute difference ≤ 2x Avg RL
Anthracene			39	18		10	µg/kg	122.5	NA	**18**	**49**	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	71		37	74		9.8	µg/kg	117	NA	**3**	**46.8**	None, absolute difference ≤ 2x Avg RL
Benzo(a)pyrene	58		48	61		13	µg/kg	152.5	NA	**3**	**61**	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	120		56	130		15	µg/kg	177.5	NA	**10**	**71**	None, absolute difference ≤ 2x Avg RL
Benzo(g,h,i)perylene	43	J	92	43		24	µg/kg	290	NA	**0**	**116**	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	31	J	37	37		9.8	µg/kg	117	NA	**6**	**46.8**	None, absolute difference ≤ 2x Avg RL
Chrysene	140		42	130		11	µg/kg	132.5	NA	**10**	**53**	None, absolute difference ≤ 2x Avg RL
Dibenzo(a,h)anthracene	24	J	92	16	J	24	µg/kg	290	NA	**8**	**116**	None, absolute difference ≤ 2x Avg RL
Fluoranthene	94		92	100		24	µg/kg	290	NA	**6**	**116**	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene			92	28		24	µg/kg	290	NA	**28**	**116**	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	93	J	180	89		49	µg/kg	572.5	NA	**4**	**229**	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	100	J	180	97		49	µg/kg	572.5	NA	**3**	**229**	None, absolute difference ≤ 2x Avg RL
Naphthalene	55	J	180	70		49	µg/kg	572.5	NA	**15**	**229**	None, absolute difference ≤ 2x Avg RL
Phenanthrene	120		37	130		9.8	µg/kg	117	**8**	NA	NA	None, RPD ≤ 50%
Pyrene	81	J	92	86		24	µg/kg	290	NA	**5**	**116**	None, absolute difference ≤ 2x Avg RL

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

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

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

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV1202B-CS 680-89695-10		RL	CV1202B-CSD 680-89695-11		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	96	J	210	60	J	210	µg/kg	1050	NA	**36**	**420**	None, absolute difference ≤ 2x Avg RL
Anthracene	180		44	94		43	µg/kg	217.5	NA	**86**	**87**	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	410		42	260		41	µg/kg	207.5	**45**	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	390		55	250		54	µg/kg	272.5	NA	**140**	**109**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(b)fluoranthene	610		64	430		63	µg/kg	317.5	**35**	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	340		110	220		100	µg/kg	525	NA	**120**	**210**	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	230		42	140		41	µg/kg	207.5	NA	**90**	**83**	**J/UJ-flag, absolute difference > 2x Avg RL**
Chrysene	540		47	370		46	µg/kg	232.5	**37**	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	120		110	60	J	100	µg/kg	525	NA	**60**	**210**	None, absolute difference ≤ 2x Avg RL
Fluoranthene	720		110	450		100	µg/kg	525	NA	**270**	**210**	**J/UJ-flag, absolute difference > 2x Avg RL**
Fluorene	50	J	110	33	J	100	µg/kg	525	NA	**17**	**210**	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	330		110	210		100	µg/kg	525	NA	**120**	**210**	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	440		210	270		210	µg/kg	1050	NA	**170**	**420**	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	460		210	310		210	µg/kg	1050	NA	**150**	**420**	None, absolute difference ≤ 2x Avg RL
Naphthalene	340		210	240		210	µg/kg	1050	NA	**100**	**420**	None, absolute difference ≤ 2x Avg RL
Phenanthrene	700		42	420		41	µg/kg	207.5	**50**	NA	NA	None, RPD ≤ 50%
Pyrene	580		110	360		100	µg/kg	525	NA	**220**	**210**	**J/UJ-flag, absolute difference > 2x Avg RL**

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

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

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: 680-89695-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89695-1

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 04/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0323A-CS (680-89695-1), FM0323A-CSD (680-89695-2), FM0323B-CS (680-89695-3), CV1329A-CS (680-89695-4), CV0773A-CS (680-89695-5), CV0773B-CS (680-89695-6), CV0809A-CS (680-89695-7), CV0809A-CSD (680-89695-8), CV1202A-CS (680-89695-9), CV1202B-CS (680-89695-10), CV1202B-CSD (680-89695-11), CV0147A-CS-SP (680-89695-12), CV0427A-CS-SP (680-89695-13), CV0427B-CS-SP (680-89695-14), CV0718A-CS-SP (680-89695-15), CV0718B-CS-SP (680-89695-16), HP0157A-CS-SP (680-89695-17), CV0575A-CS-SP (680-89695-18), CV0927A-CS-SP (680-89695-19) and CV0927B-CS-SP (680-89695-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/25/2013 and 04/26/2013 and analyzed on 04/29/2013.

Samples FM0323A-CS (680-89695-1)[4X], FM0323B-CS (680-89695-3)[4X], CV0773B-CS (680-89695-6)[4X], CV1202A-CS (680-89695-9)[4X], CV1202B-CS (680-89695-10)[4X], CV1202B-CSD (680-89695-11)[4X], CV0427A-CS-SP (680-89695-13)[4X], CV0427B-CS-SP (680-89695-14)[4X], CV0718A-CS-SP (680-89695-15)[4X] and CV0718B-CS-SP (680-89695-16)[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 680-89516-21 in batch 660-136926. Fluoranthene, Phenanthrene and Pyrene exceeded the rpd limit.

Several analytes recovered outside the recovery criteria low for the MS/MSD of sample CV1329A-CS (680-89695-4) in batch 660-136961.

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: 680-89695-1
SDG: 68089695-1

Client Sample ID: FM0323A-CS

Lab Sample ID: 680-89695-1
Date Collected: 04/22/13 13:30
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	460	U	460	92	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Acenaphthylene	180	U	180	23	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Anthracene	39	U	39	19	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Benzo[a]anthracene	**71**		37	18	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Benzo[a]pyrene	**58**	J	48	24	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Benzo[b]fluoranthene	**120**		56	28	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Benzo[g,h,i]perylene	**43**	J	92	20	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Benzo[k]fluoranthene	**31**	J	37	17	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Chrysene	**140**		42	21	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Dibenz(a,h)anthracene	**24**	J	92	19	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Fluoranthene	**94**		92	18	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Fluorene	92	U	92	19	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Indeno[1,2,3-cd]pyrene	92	U	92	33	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
1-Methylnaphthalene	**93**	J	180	20	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
2-Methylnaphthalene	**100**	J	180	33	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Naphthalene	**55**	J	180	20	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Phenanthrene	**120**		37	18	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Pyrene	**81**	J	92	17	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*04/25/13 12:29*	*04/29/13 18:47*	*4*

Client Sample ID: FM0323A-CSD

Lab Sample ID: 680-89695-2
Date Collected: 04/22/13 13:30
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Acenaphthylene	**9.0**	J	49	6.1	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Anthracene	**18**		10	5.1	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Benzo[a]anthracene	**74**		9.8	4.8	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Benzo[a]pyrene	**61**	J	13	6.4	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Benzo[b]fluoranthene	**130**		15	7.5	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Benzo[g,h,i]perylene	**43**		24	5.4	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Benzo[k]fluoranthene	**37**		9.8	4.4	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Chrysene	**130**		11	5.5	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Dibenz(a,h)anthracene	**16**	J	24	5.0	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Fluoranthene	**100**		24	4.9	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Fluorene	24	U	24	5.0	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Indeno[1,2,3-cd]pyrene	**28**		24	8.7	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
1-Methylnaphthalene	**89**		49	5.4	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
2-Methylnaphthalene	**97**		49	8.7	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Naphthalene	**70**		49	5.4	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Phenanthrene	**130**		9.8	4.8	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Pyrene	**86**		24	4.5	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*04/25/13 12:29*	*04/29/13 19:10*	*1*

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

Client Sample Results

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: FM0323B-CS

Lab Sample ID: 680-89695-3
Date Collected: 04/22/13 13:40
Matrix: Solid
Date Received: 04/25/13 08:40
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	490	U	490	98	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Anthracene	41	U	41	21	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Benzo[a]anthracene	**86**		39	19	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Benzo[a]pyrene	**79**	J	51	25	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Benzo[b]fluoranthene	**180**		60	30	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Benzo[g,h,i]perylene	**69**	J	98	22	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Benzo[k]fluoranthene	**37**	J	39	18	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Chrysene	**140**		44	22	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Dibenz(a,h)anthracene	98	U	98	20	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Fluoranthene	**87**	J	98	20	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Fluorene	98	U	98	20	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Indeno[1,2,3-cd]pyrene	**51**	J	98	35	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
1-Methylnaphthalene	**49**	J	200	22	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
2-Methylnaphthalene	**55**	J	200	35	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Naphthalene	**46**	J	200	22	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Phenanthrene	**95**		39	19	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Pyrene	**74**	J	98	18	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*04/25/13 12:29*	*04/29/13 19:32*	*4*

Client Sample ID: CV1329A-CS

Lab Sample ID: 680-89695-4
Date Collected: 04/22/13 14:55
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Acenaphthylene	**19**	J	48	6.0	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Anthracene	**32**		10	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Benzo[a]anthracene	**160**	~~F~~	9.6	4.7	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Benzo[a]pyrene	**140**	~~F~~ J	12	6.2	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Benzo[b]fluoranthene	**230**		15	7.3	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Benzo[g,h,i]perylene	**140**		24	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Benzo[k]fluoranthene	**87**		9.6	4.3	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Chrysene	**170**		11	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Dibenz(a,h)anthracene	**44**		24	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Fluoranthene	**250**	~~F~~	24	4.8	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Fluorene	**9.0**	J	24	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Indeno[1,2,3-cd]pyrene	**130**		24	8.5	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
1-Methylnaphthalene	**86**		48	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
2-Methylnaphthalene	**110**		48	8.5	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Naphthalene	**110**		48	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Phenanthrene	**160**		9.6	4.7	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Pyrene	**220**	~~F~~ J	24	4.4	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*43*		*30 - 130*	*04/26/13 07:28*	*04/29/13 13:39*	*1*

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

Client Sample Results

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: CV0773A-CS

Lab Sample ID: 680-89695-5
Date Collected: 04/23/13 09:25
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 80.0

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	☼	04/25/13 12:29	04/29/13 19:55	1
Acenaphthylene	9.0	J	50	6.3	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Anthracene	18		11	5.3	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Benzo[a]anthracene	71		10	4.9	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Benzo[a]pyrene	66	J	13	6.5	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Benzo[b]fluoranthene	130		15	7.7	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Benzo[g,h,i]perylene	46		25	5.5	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Benzo[k]fluoranthene	39		10	4.5	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Chrysene	120		11	5.6	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Dibenz(a,h)anthracene	15	J	25	5.1	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Fluoranthene	110		25	5.0	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Fluorene	5.1	J	25	5.1	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Indeno[1,2,3-cd]pyrene	32		25	8.9	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
1-Methylnaphthalene	46	J	50	5.5	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
2-Methylnaphthalene	52		50	8.9	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Naphthalene	50		50	5.5	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Phenanthrene	96		10	4.9	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Pyrene	90		25	4.6	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*45*		*30 - 130*	*04/25/13 12:29*	*04/29/13 19:55*	*1*

Client Sample ID: CV0773B-CS

Lab Sample ID: 680-89695-6
Date Collected: 04/23/13 09:35
Matrix: Solid
Date Received: 04/25/13 08:40
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	☼	04/25/13 12:29	04/29/13 20:17	4
Acenaphthylene	33	J	210	26	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Anthracene	46		43	22	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Benzo[a]anthracene	210		41	20	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Benzo[a]pyrene	170	J	53	27	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Benzo[b]fluoranthene	380		63	31	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Benzo[g,h,i]perylene	110		100	23	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Benzo[k]fluoranthene	96		41	19	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Chrysene	420		46	23	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Dibenz(a,h)anthracene	48	J	100	21	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Fluoranthene	270		100	21	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Fluorene	100	U	100	21	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Indeno[1,2,3-cd]pyrene	77	J	100	37	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
1-Methylnaphthalene	250		210	23	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
2-Methylnaphthalene	220		210	37	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Naphthalene	140	J	210	23	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Phenanthrene	300		41	20	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Pyrene	230		100	19	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*30 - 130*	*04/25/13 12:29*	*04/29/13 20:17*	*4*

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

Client Sample Results

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: CV0809A-CS

Lab Sample ID: 680-89695-7
Date Collected: 04/23/13 08:45
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	26	J	130	26	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Acenaphthylene	33	J	51	6.4	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Anthracene	130		11	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Benzo[a]anthracene	430		10	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Benzo[a]pyrene	370		13	6.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Benzo[b]fluoranthene	520		16	7.8	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Benzo[g,h,i]perylene	290		26	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Benzo[k]fluoranthene	210		10	4.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Chrysene	400		12	5.8	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Dibenz(a,h)anthracene	89		26	5.2	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Fluoranthene	910		26	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Fluorene	30		26	5.2	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Indeno[1,2,3-cd]pyrene	310		26	9.1	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
1-Methylnaphthalene	35	J	51	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
2-Methylnaphthalene	33	J	51	9.1	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Naphthalene	38	J	51	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Phenanthrene	590	J	10	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Pyrene	720		26	4.7	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*33*		*30 - 130*	*04/26/13 07:28*	*04/29/13 14:24*	*1*

Client Sample ID: CV0809A-CSD

Lab Sample ID: 680-89695-8
Date Collected: 04/23/13 08:45
Matrix: Solid
Date Received: 04/25/13 08:40
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	☼	04/26/13 07:28	04/29/13 14:39	1
Acenaphthylene	60		50	6.3	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Anthracene	79		11	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Benzo[a]anthracene	370		10	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Benzo[a]pyrene	370		13	6.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Benzo[b]fluoranthene	610		15	7.7	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Benzo[g,h,i]perylene	330		25	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Benzo[k]fluoranthene	180		10	4.5	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Chrysene	410		11	5.7	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Dibenz(a,h)anthracene	98		25	5.2	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Fluoranthene	560		25	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Fluorene	14	J	25	5.2	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Indeno[1,2,3-cd]pyrene	330		25	9.0	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
1-Methylnaphthalene	62		50	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
2-Methylnaphthalene	60		50	9.0	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Naphthalene	58		50	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Phenanthrene	230	J	10	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Pyrene	460		25	4.7	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*04/26/13 07:28*	*04/29/13 14:39*	*1*

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

Client Sample Results

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: CV1202A-CS

Lab Sample ID: 680-89695-9
Date Collected: 04/23/13 10:10
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	99	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Acenaphthylene	29	J	200	25	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Anthracene	44		42	21	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Benzo[a]anthracene	150		40	19	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Benzo[a]pyrene	130		52	26	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Benzo[b]fluoranthene	220		61	30	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Benzo[g,h,i]perylene	150		99	22	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Benzo[k]fluoranthene	80		40	18	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Chrysene	190		45	22	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Dibenz(a,h)anthracene	39	J	99	20	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Fluoranthene	200		99	20	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Fluorene	99	U	99	20	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Indeno[1,2,3-cd]pyrene	130		99	35	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
1-Methylnaphthalene	130	J	200	22	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
2-Methylnaphthalene	160	J	200	35	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Naphthalene	110	J	200	22	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Phenanthrene	220		40	19	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Pyrene	170		99	18	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*04/26/13 07:28*	*04/29/13 14:54*	*4*

Client Sample ID: CV1202B-CS

Lab Sample ID: 680-89695-10
Date Collected: 04/23/13 10:20
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 75.8

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	☼	04/26/13 07:28	04/29/13 15:09	4
Acenaphthylene	96	J	210	26	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Anthracene	180		44	22	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Benzo[a]anthracene	410		42	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Benzo[a]pyrene	390	J	55	27	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Benzo[b]fluoranthene	610		64	32	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Benzo[g,h,i]perylene	340		110	23	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Benzo[k]fluoranthene	230	J	42	19	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Chrysene	540		47	24	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Dibenz(a,h)anthracene	120		110	22	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Fluoranthene	720	J	110	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Fluorene	50	J	110	22	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Indeno[1,2,3-cd]pyrene	330		110	37	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
1-Methylnaphthalene	440		210	23	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
2-Methylnaphthalene	460		210	37	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Naphthalene	340		210	23	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Phenanthrene	700		42	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Pyrene	580	J	110	19	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*04/26/13 07:28*	*04/29/13 15:09*	*4*

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

Client Sample Results

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: CV1202B-CSD

Lab Sample ID: 680-89695-11
Date Collected: 04/23/13 10:20
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Acenaphthylene	60	J	210	26	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Anthracene	94		43	22	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Benzo[a]anthracene	260		41	20	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Benzo[a]pyrene	250	J	54	27	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Benzo[b]fluoranthene	430		63	31	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Benzo[g,h,i]perylene	220		100	23	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Benzo[k]fluoranthene	140	J	41	19	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Chrysene	370		46	23	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Dibenz(a,h)anthracene	60	J	100	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Fluoranthene	450	J	100	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Fluorene	33	J	100	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Indeno[1,2,3-cd]pyrene	210		100	37	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
1-Methylnaphthalene	270		210	23	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
2-Methylnaphthalene	310		210	37	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Naphthalene	240		210	23	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Phenanthrene	420		41	20	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Pyrene	360	J	100	19	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*04/26/13 07:28*	*04/29/13 15:24*	*4*

Client Sample ID: CV0147A-CS-SP

Lab Sample ID: 680-89695-12
Date Collected: 04/23/13 10:33
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Acenaphthylene	15	J	48	6.0	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Anthracene	19		10	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Benzo[a]anthracene	55		9.6	4.7	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Benzo[a]pyrene	60		12	6.2	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Benzo[b]fluoranthene	110		15	7.3	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Benzo[g,h,i]perylene	55		24	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Benzo[k]fluoranthene	29		9.6	4.3	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Chrysene	79		11	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Dibenz(a,h)anthracene	17	J	24	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Fluoranthene	69		24	4.8	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Fluorene	6.0	J	24	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Indeno[1,2,3-cd]pyrene	53		24	8.5	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
1-Methylnaphthalene	44	J	48	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
2-Methylnaphthalene	56		48	8.5	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Naphthalene	46	J	48	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Phenanthrene	78		9.6	4.7	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Pyrene	52		24	4.4	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*04/26/13 07:28*	*04/29/13 15:39*	*1*

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

Client Sample Results

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: CV0427A-CS-SP

Lab Sample ID: 680-89695-13
Date Collected: 04/23/13 08:53
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Acenaphthylene	51	J	200	25	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Anthracene	74		42	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Benzo[a]anthracene	240		40	20	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Benzo[a]pyrene	200		52	26	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Benzo[b]fluoranthene	360		61	31	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Benzo[g,h,i]perylene	190		100	22	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Benzo[k]fluoranthene	110		40	18	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Chrysene	300		45	23	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Dibenz(a,h)anthracene	56	J	100	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Fluoranthene	310		100	20	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Fluorene	29	J	100	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Indeno[1,2,3-cd]pyrene	180		100	36	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
1-Methylnaphthalene	130	J	200	22	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
2-Methylnaphthalene	170	J	200	36	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Naphthalene	140	J	200	22	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Phenanthrene	300		40	20	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Pyrene	240		100	19	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*		*30 - 130*	*04/26/13 07:28*	*04/29/13 15:54*	*4*

Client Sample ID: CV0427B-CS-SP

Lab Sample ID: 680-89695-14
Date Collected: 04/23/13 09:03
Matrix: Solid
Date Received: 04/25/13 08:40
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	☼	04/26/13 07:28	04/29/13 16:09	4
Acenaphthylene	86	J	210	26	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Anthracene	130		44	22	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Benzo[a]anthracene	350		42	20	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Benzo[a]pyrene	350		55	27	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Benzo[b]fluoranthene	600		64	32	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Benzo[g,h,i]perylene	280		100	23	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Benzo[k]fluoranthene	170		42	19	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Chrysene	430		47	24	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Dibenz(a,h)anthracene	77	J	100	22	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Fluoranthene	560		100	21	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Fluorene	25	J	100	22	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Indeno[1,2,3-cd]pyrene	300		100	37	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
1-Methylnaphthalene	160	J	210	23	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
2-Methylnaphthalene	160	J	210	37	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Naphthalene	140	J	210	23	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Phenanthrene	390		42	20	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Pyrene	430		100	19	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*04/26/13 07:28*	*04/29/13 16:09*	*4*

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

Client Sample Results

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: CV0718A-CS-SP

Lab Sample ID: 680-89695-15

Date Collected: 04/23/13 09:31
Date Received: 04/25/13 08:40

Matrix: Solid
Percent Solids: 80.9

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	99	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Acenaphthylene	66	J	200	25	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Anthracene	80		42	21	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Benzo[a]anthracene	150		40	19	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Benzo[a]pyrene	120		51	26	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Benzo[b]fluoranthene	190		60	30	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Benzo[g,h,i]perylene	110		99	22	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Benzo[k]fluoranthene	70		40	18	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Chrysene	190		44	22	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Dibenz(a,h)anthracene	31	J	99	20	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Fluoranthene	190		99	20	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Fluorene	44	J	99	20	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Indeno[1,2,3-cd]pyrene	95	J	99	35	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
1-Methylnaphthalene	210		200	22	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
2-Methylnaphthalene	320		200	35	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Naphthalene	500		200	22	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Phenanthrene	540		40	19	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Pyrene	240		99	18	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*30 - 130*	*04/26/13 07:28*	*04/29/13 16:24*	*4*

Client Sample ID: CV0718B-CS-SP

Lab Sample ID: 680-89695-16

Date Collected: 04/23/13 09:44
Date Received: 04/25/13 08:40

Matrix: Solid
Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	97	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Acenaphthylene	28	J	190	24	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Anthracene	44		41	20	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Benzo[a]anthracene	160		39	19	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Benzo[a]pyrene	130		50	25	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Benzo[b]fluoranthene	240		59	29	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Benzo[g,h,i]perylene	130		97	21	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Benzo[k]fluoranthene	57		39	17	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Chrysene	210		43	22	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Dibenz(a,h)anthracene	42	J	97	20	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Fluoranthene	200		97	19	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Fluorene	97	U	97	20	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Indeno[1,2,3-cd]pyrene	100		97	34	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
1-Methylnaphthalene	140	J	190	21	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
2-Methylnaphthalene	200		190	34	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Naphthalene	130	J	190	21	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Phenanthrene	280		39	19	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Pyrene	160		97	18	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*04/26/13 07:28*	*04/29/13 16:39*	*4*

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

Client Sample ID: HP0157A-CS-SP

Lab Sample ID: 680-89695-17

Date Collected: 04/23/13 12:46
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 74.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Acenaphthylene	**37**	**J**	54	6.7	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Anthracene	**46**		11	5.7	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Benzo[a]anthracene	**95**		11	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Benzo[a]pyrene	**82**		14	7.0	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Benzo[b]fluoranthene	**160**		16	8.2	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Benzo[g,h,i]perylene	**74**		27	5.9	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Benzo[k]fluoranthene	**35**		11	4.8	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Chrysene	**120**		12	6.1	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Dibenz(a,h)anthracene	**23**	**J**	27	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Fluoranthene	**150**		27	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Fluorene	**21**	**J**	27	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Indeno[1,2,3-cd]pyrene	**67**		27	9.6	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
1-Methylnaphthalene	**92**		54	5.9	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
2-Methylnaphthalene	**110**		54	9.6	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Naphthalene	**230**		54	5.9	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Phenanthrene	**220**		11	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Pyrene	**140**		27	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*04/26/13 07:28*	*04/29/13 16:54*	*1*

Client Sample ID: CV0575A-CS-SP

Lab Sample ID: 680-89695-18

Date Collected: 04/23/13 13:22
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Acenaphthylene	**83**		49	6.2	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Anthracene	**170**		10	5.2	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Benzo[a]anthracene	**330**		9.9	4.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Benzo[a]pyrene	**320**		13	6.4	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Benzo[b]fluoranthene	**610**		15	7.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Benzo[g,h,i]perylene	**230**		25	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Benzo[k]fluoranthene	**150**		9.9	4.4	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Chrysene	**400**		11	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Dibenz(a,h)anthracene	**84**		25	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Fluoranthene	**540**		25	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Fluorene	**28**		25	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Indeno[1,2,3-cd]pyrene	**260**		25	8.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
1-Methylnaphthalene	**93**		49	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
2-Methylnaphthalene	**130**		49	8.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Naphthalene	**130**		49	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Phenanthrene	**330**		9.9	4.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Pyrene	**450**		25	4.6	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*04/26/13 07:28*	*04/29/13 17:09*	*1*

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

Client Sample ID: CV0927A-CS-SP

Lab Sample ID: 680-89695-19

Date Collected: 04/23/13 13:51
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Acenaphthylene	12	J	50	6.3	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Anthracene	27		11	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Benzo[a]anthracene	82		10	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Benzo[a]pyrene	86		13	6.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Benzo[b]fluoranthene	160		15	7.7	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Benzo[g,h,i]perylene	66		25	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Benzo[k]fluoranthene	52		10	4.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Chrysene	110		11	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Dibenz(a,h)anthracene	20	J	25	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Fluoranthene	110		25	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Fluorene	9.5	J	25	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Indeno[1,2,3-cd]pyrene	73		25	8.9	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
1-Methylnaphthalene	22	J	50	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
2-Methylnaphthalene	32	J	50	8.9	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Naphthalene	30	J	50	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Phenanthrene	87		10	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Pyrene	89		25	4.6	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*31*		*30 - 130*	*04/26/13 07:28*	*04/29/13 17:24*	*1*

Client Sample ID: CV0927B-CS-SP

Lab Sample ID: 680-89695-20

Date Collected: 04/23/13 14:03
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 71.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Acenaphthylene	92		55	6.9	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Anthracene	72		12	5.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Benzo[a]anthracene	100		11	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Benzo[a]pyrene	100		14	7.2	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Benzo[b]fluoranthene	180		17	8.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Benzo[g,h,i]perylene	85		28	6.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Benzo[k]fluoranthene	75		11	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Chrysene	160		12	6.2	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Dibenz(a,h)anthracene	30		28	5.7	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Fluoranthene	190		28	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Fluorene	38		28	5.7	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Indeno[1,2,3-cd]pyrene	86		28	9.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
1-Methylnaphthalene	130		55	6.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
2-Methylnaphthalene	170		55	9.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Naphthalene	580		55	6.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Phenanthrene	350		11	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Pyrene	200		28	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*30 - 130*	*04/26/13 07:28*	*04/29/13 17:39*	*1*

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

ANALYTICAL REPORT

Job Number: 680-89695-1

SDG Number: 68089695-1

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
5/6/2013 4:57 PM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
05/06/2013

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: 680-89695-1

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 04/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0323A-CS (680-89695-1), FM0323A-CSD (680-89695-2), FM0323B-CS (680-89695-3), CV1329A-CS (680-89695-4), CV0773A-CS (680-89695-5), CV0773B-CS (680-89695-6), CV0809A-CS (680-89695-7), CV0809A-CSD (680-89695-8), CV1202A-CS (680-89695-9), CV1202B-CS (680-89695-10), CV1202B-CSD (680-89695-11), CV0147A-CS-SP (680-89695-12), CV0427A-CS-SP (680-89695-13), CV0427B-CS-SP (680-89695-14), CV0718A-CS-SP (680-89695-15), CV0718B-CS-SP (680-89695-16), HP0157A-CS-SP (680-89695-17), CV0575A-CS-SP (680-89695-18), CV0927A-CS-SP (680-89695-19) and CV0927B-CS-SP (680-89695-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/25/2013 and 04/26/2013 and analyzed on 04/29/2013.

Samples FM0323A-CS (680-89695-1)[4X], FM0323B-CS (680-89695-3)[4X], CV0773B-CS (680-89695-6)[4X], CV1202A-CS (680-89695-9)[4X], CV1202B-CS (680-89695-10)[4X], CV1202B-CSD (680-89695-11)[4X], CV0427A-CS-SP (680-89695-13)[4X], CV0427B-CS-SP (680-89695-14)[4X], CV0718A-CS-SP (680-89695-15)[4X] and CV0718B-CS-SP (680-89695-16)[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 680-89516-21 in batch 660-136926. Fluoranthene, Phenanthrene and Pyrene exceeded the rpd limit.

Several analytes recovered outside the recovery criteria low for the MS/MSD of sample CV1329A-CS (680-89695-4) in batch 660-136961.

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

Job Number: 680-89695-1
Sdg Number: 68089695-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-89695-1	FM0323A-CS	Solid	04/22/2013 1330	04/25/2013 0840
680-89695-2	FM0323A-CSD	Solid	04/22/2013 1330	04/25/2013 0840
680-89695-3	FM0323B-CS	Solid	04/22/2013 1340	04/25/2013 0840
680-89695-4	CV1329A-CS	Solid	04/22/2013 1455	04/25/2013 0840
680-89695-4MS	CV1329A-CS	Solid	04/22/2013 1455	04/25/2013 0840
680-89695-4MSD	CV1329A-CS	Solid	04/22/2013 1455	04/25/2013 0840
680-89695-5	CV0773A-CS	Solid	04/23/2013 0925	04/25/2013 0840
680-89695-6	CV0773B-CS	Solid	04/23/2013 0935	04/25/2013 0840
680-89695-7	CV0809A-CS	Solid	04/23/2013 0845	04/25/2013 0840
680-89695-8	CV0809A-CSD	Solid	04/23/2013 0845	04/25/2013 0840
680-89695-9	CV1202A-CS	Solid	04/23/2013 1010	04/25/2013 0840
680-89695-10	CV1202B-CS	Solid	04/23/2013 1020	04/25/2013 0840
680-89695-11	CV1202B-CSD	Solid	04/23/2013 1020	04/25/2013 0840
680-89695-12	CV0147A-CS-SP	Solid	04/23/2013 1033	04/25/2013 0840
680-89695-13	CV0427A-CS-SP	Solid	04/23/2013 0853	04/25/2013 0840
680-89695-14	CV0427B-CS-SP	Solid	04/23/2013 0903	04/25/2013 0840
680-89695-15	CV0718A-CS-SP	Solid	04/23/2013 0931	04/25/2013 0840
680-89695-16	CV0718B-CS-SP	Solid	04/23/2013 0944	04/25/2013 0840
680-89695-17	HP0157A-CS-SP	Solid	04/23/2013 1246	04/25/2013 0840
680-89695-18	CV0575A-CS-SP	Solid	04/23/2013 1322	04/25/2013 0840
680-89695-19	CV0927A-CS-SP	Solid	04/23/2013 1351	04/25/2013 0840
680-89695-20	CV0927B-CS-SP	Solid	04/23/2013 1403	04/25/2013 0840

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-1
Sdg Number: 68089695-1

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: 680-89695-1
Sdg Number: 68089695-1

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: 680-89695-1
Sdg Number: 68089695-1

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: 680-89695-1
Sdg Number: 68089695-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136834					
LCS 660-136834/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136834/1-A	Method Blank	T	Solid	3546	
680-89516-A-21-B MS	Matrix Spike	T	Solid	3546	
680-89516-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89695-1	FM0323A-CS	T	Solid	3546	
680-89695-2	FM0323A-CSD	T	Solid	3546	
680-89695-3	FM0323B-CS	T	Solid	3546	
680-89695-5	CV0773A-CS	T	Solid	3546	
680-89695-6	CV0773B-CS	T	Solid	3546	
Prep Batch: 660-136855					
LCS 660-136855/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136855/1-A	Method Blank	T	Solid	3546	
680-89695-4	CV1329A-CS	T	Solid	3546	
680-89695-4MS	Matrix Spike	T	Solid	3546	
680-89695-4MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89695-7	CV0809A-CS	T	Solid	3546	
680-89695-8	CV0809A-CSD	T	Solid	3546	
680-89695-9	CV1202A-CS	T	Solid	3546	
680-89695-10	CV1202B-CS	T	Solid	3546	
680-89695-11	CV1202B-CSD	T	Solid	3546	
680-89695-12	CV0147A-CS-SP	T	Solid	3546	
680-89695-13	CV0427A-CS-SP	T	Solid	3546	
680-89695-14	CV0427B-CS-SP	T	Solid	3546	
680-89695-15	CV0718A-CS-SP	T	Solid	3546	
680-89695-16	CV0718B-CS-SP	T	Solid	3546	
680-89695-17	HP0157A-CS-SP	T	Solid	3546	
680-89695-18	CV0575A-CS-SP	T	Solid	3546	
680-89695-19	CV0927A-CS-SP	T	Solid	3546	
680-89695-20	CV0927B-CS-SP	T	Solid	3546	
Analysis Batch:660-136926					
LCS 660-136834/2-A	Lab Control Sample	T	Solid	8270C LL	660-136834
MB 660-136834/1-A	Method Blank	T	Solid	8270C LL	660-136834
680-89516-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-136834
680-89516-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136834
680-89695-1	FM0323A-CS	T	Solid	8270C LL	660-136834
680-89695-2	FM0323A-CSD	T	Solid	8270C LL	660-136834
680-89695-3	FM0323B-CS	T	Solid	8270C LL	660-136834
680-89695-5	CV0773A-CS	T	Solid	8270C LL	660-136834
680-89695-6	CV0773B-CS	T	Solid	8270C LL	660-136834

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-1
Sdg Number: 68089695-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-136961					
LCS 660-136855/2-A	Lab Control Sample	T	Solid	8270C LL	660-136855
MB 660-136855/1-A	Method Blank	T	Solid	8270C LL	660-136855
680-89695-4	CV1329A-CS	T	Solid	8270C LL	660-136855
680-89695-4MS	Matrix Spike	T	Solid	8270C LL	660-136855
680-89695-4MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136855
680-89695-7	CV0809A-CS	T	Solid	8270C LL	660-136855
680-89695-8	CV0809A-CSD	T	Solid	8270C LL	660-136855
680-89695-9	CV1202A-CS	T	Solid	8270C LL	660-136855
680-89695-10	CV1202B-CS	T	Solid	8270C LL	660-136855
680-89695-11	CV1202B-CSD	T	Solid	8270C LL	660-136855
680-89695-12	CV0147A-CS-SP	T	Solid	8270C LL	660-136855
680-89695-13	CV0427A-CS-SP	T	Solid	8270C LL	660-136855
680-89695-14	CV0427B-CS-SP	T	Solid	8270C LL	660-136855
680-89695-15	CV0718A-CS-SP	T	Solid	8270C LL	660-136855
680-89695-16	CV0718B-CS-SP	T	Solid	8270C LL	660-136855
680-89695-17	HP0157A-CS-SP	T	Solid	8270C LL	660-136855
680-89695-18	CV0575A-CS-SP	T	Solid	8270C LL	660-136855
680-89695-19	CV0927A-CS-SP	T	Solid	8270C LL	660-136855
680-89695-20	CV0927B-CS-SP	T	Solid	8270C LL	660-136855

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-1
Sdg Number: 68089695-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-136902					
680-89695-1	FM0323A-CS	T	Solid	Moisture	
680-89695-2	FM0323A-CSD	T	Solid	Moisture	
680-89695-3	FM0323B-CS	T	Solid	Moisture	
680-89695-4	CV1329A-CS	T	Solid	Moisture	
680-89695-4MS	Matrix Spike	T	Solid	Moisture	
680-89695-4MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89695-5	CV0773A-CS	T	Solid	Moisture	
680-89695-6	CV0773B-CS	T	Solid	Moisture	
680-89695-7	CV0809A-CS	T	Solid	Moisture	
680-89695-8	CV0809A-CSD	T	Solid	Moisture	
680-89695-9	CV1202A-CS	T	Solid	Moisture	
680-89695-10	CV1202B-CS	T	Solid	Moisture	
680-89695-11	CV1202B-CSD	T	Solid	Moisture	
680-89695-12	CV0147A-CS-SP	T	Solid	Moisture	
680-89695-13	CV0427A-CS-SP	T	Solid	Moisture	
680-89695-14	CV0427B-CS-SP	T	Solid	Moisture	
680-89695-15	CV0718A-CS-SP	T	Solid	Moisture	
680-89695-16	CV0718B-CS-SP	T	Solid	Moisture	
680-89695-17	HP0157A-CS-SP	T	Solid	Moisture	
680-89695-18	CV0575A-CS-SP	T	Solid	Moisture	
680-89695-19	CV0927A-CS-SP	T	Solid	Moisture	
680-89695-20	CV0927B-CS-SP	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Instrument ID: BSMA5973 Analysis Batch Number: 136892

Lab Sample ID: IC 660-136892/3 Client Sample ID:

Date Analyzed: 04/26/13 10:03 Lab File ID: 1AD26003.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	04/26/
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	04/26/
Benzo[g,h,i]perylene	8.63	Baseline Event	cantins	04/26/

Lab Sample ID: IC 660-136892/4 Client Sample ID:

Date Analyzed: 04/26/13 10:18 Lab File ID: 1AD26004.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	04/26/
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	04/26/
Dibenz(a,h)anthracene	8.44	Baseline Event	cantins	04/26/
Benzo[g,h,i]perylene	8.62	Baseline Event	cantins	04/26/

Lab Sample ID: IC 660-136892/5 Client Sample ID:

Date Analyzed: 04/26/13 10:33 Lab File ID: 1AD26005.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Dibenz(a,h)anthracene	8.45	Baseline Event	cantins	04/26/
Benzo[g,h,i]perylene	8.63	Baseline Event	cantins	04/26/

Lab Sample ID: IC 660-136892/6 Client Sample ID:

Date Analyzed: 04/26/13 10:48 Lab File ID: 1AD26006.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Dibenz(a,h)anthracene	8.45	Baseline Event	cantins	04/26/
Benzo[g,h,i]perylene	8.64	Baseline Event	cantins	04/26/

Lab Sample ID: ICIS 660-136892/7 Client Sample ID:

Date Analyzed: 04/26/13 11:03 Lab File ID: 1AD26007.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Chrysene	6.60	Baseline Event	cantins	04/26/

Lab Sample ID: IC 660-136892/8 Client Sample ID:

Date Analyzed: 04/26/13 11:19 Lab File ID: 1AD26008.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Chrysene	6.60	Baseline Event	cantins	04/26/

DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Instrument ID: BSMA5973 Analysis Batch Number: 136892

Lab Sample ID: IC 660-136892/9 Client Sample ID:

Date Analyzed: 04/26/13 11:34 Lab File ID: 1AD26009.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Chrysene	6.61	Baseline Event	cantins	04/26/
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	04/26/

Lab Sample ID: ICV 660-136892/10 Client Sample ID:

Date Analyzed: 04/26/13 11:49 Lab File ID: 1AD26010.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Carbazole	4.73	Baseline Event	cantins	04/26/

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Instrument ID: BSMA5973 Analysis Batch Number: 136961

Lab Sample ID: 680-89695-4 Client Sample ID: CV1329A-CS

Date Analyzed: 04/29/13 13:39 Lab File ID: 1AD29007.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.38	Split Peak	cantins	05/01/
Benzo[k]fluoranthene	7.39	Baseline Event	cantins	05/01/
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	05/01/

Lab Sample ID: 680-89695-4 MS Client Sample ID: CV1329A-CS MS

Date Analyzed: 04/29/13 13:54 Lab File ID: 1AD29008.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Dibenz(a,h)anthracene	8.45	Baseline Event	cantins	05/01/

Lab Sample ID: 680-89695-4 MSD Client Sample ID: CV1329A-CS MSD

Date Analyzed: 04/29/13 14:09 Lab File ID: 1AD29009.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	05/01/
Dibenz(a,h)anthracene	8.46	Baseline Event	cantins	05/01/

Lab Sample ID: 680-89695-7 Client Sample ID: CV0809A-CS

Date Analyzed: 04/29/13 14:24 Lab File ID: 1AD29010.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/01/
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/01/
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	05/01/

Lab Sample ID: 680-89695-8 Client Sample ID: CV0809A-CSD

Date Analyzed: 04/29/13 14:39 Lab File ID: 1AD29011.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/01/
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/01/
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	05/01/

Lab Sample ID: 680-89695-9 Client Sample ID: CV1202A-CS

Date Analyzed: 04/29/13 14:54 Lab File ID: 1AD29012.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/01/
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/01/
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	05/01/

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.: 680-89695-1

SDG No.: 68089695-1

Instrument ID: BSMA5973 Analysis Batch Number: 136961

Lab Sample ID: 680-89695-10 Client Sample ID: CV1202B-CS

Date Analyzed: 04/29/13 15:09 Lab File ID: 1AD29013.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/01/
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/01/
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	05/01/

Lab Sample ID: 680-89695-11 Client Sample ID: CV1202B-CSD

Date Analyzed: 04/29/13 15:24 Lab File ID: 1AD29014.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/01/
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/01/
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	05/01/

Lab Sample ID: 680-89695-12 Client Sample ID: CV0147A-CS-SP

Date Analyzed: 04/29/13 15:39 Lab File ID: 1AD29015.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/01/
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	05/01/
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	05/01/

Lab Sample ID: 680-89695-13 Client Sample ID: CV0427A-CS-SP

Date Analyzed: 04/29/13 15:54 Lab File ID: 1AD29016.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/01/
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/01/
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	05/01/

Lab Sample ID: 680-89695-14 Client Sample ID: CV0427B-CS-SP

Date Analyzed: 04/29/13 16:09 Lab File ID: 1AD29017.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/01/
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	05/01/
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	05/01/

DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Instrument ID: BSMA5973 Analysis Batch Number: 136961

Lab Sample ID: 680-89695-15 Client Sample ID: CV0718A-CS-SP

Date Analyzed: 04/29/13 16:24 Lab File ID: 1AD29018.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/02/
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/02/
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	05/02/

Lab Sample ID: 680-89695-16 Client Sample ID: CV0718B-CS-SP

Date Analyzed: 04/29/13 16:39 Lab File ID: 1AD29019.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/02/
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	05/02/

Lab Sample ID: 680-89695-17 Client Sample ID: HP0157A-CS-SP

Date Analyzed: 04/29/13 16:54 Lab File ID: 1AD29020.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/02/
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	05/02/
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	05/02/

Lab Sample ID: 680-89695-18 Client Sample ID: CV0575A-CS-SP

Date Analyzed: 04/29/13 17:09 Lab File ID: 1AD29021.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.41	Split Peak	cantins	05/02/
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	05/02/
Indeno[1,2,3-cd]pyrene	8.45	Split Peak	cantins	05/02/

Lab Sample ID: 680-89695-19 Client Sample ID: CV0927A-CS-SP

Date Analyzed: 04/29/13 17:24 Lab File ID: 1AD29022.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.40	Split Peak	cantins	05/02/
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	05/02/
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	05/02/

DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Instrument ID: BSMA5973 Analysis Batch Number: 136961

Lab Sample ID: 680-89695-20 Client Sample ID: CV0927B-CS-SP

Date Analyzed: 04/29/13 17:39 Lab File ID: 1AD29023.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.40	Split Peak	cantins	05/02/
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	05/02/
Indeno[1,2,3-cd]pyrene	8.45	Split Peak	cantins	05/02/

DB-5MS _____ ID: 250(um)

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Instrument ID: BSMD5973 Analysis Batch Number: 136164

Lab Sample ID: IC 660-136164/15 Client Sample ID:

Date Analyzed: 04/04/13 13:49 Lab File ID: 1DD04007.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/05/
Dibenz(a,h)anthracene	14.76	Baseline Event	cantins	04/05/

Lab Sample ID: IC 660-136164/16 Client Sample ID:

Date Analyzed: 04/04/13 14:11 Lab File ID: 1DD04008.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/05/
Dibenz(a,h)anthracene	14.76	Baseline Event	cantins	04/05/

Lab Sample ID: IC 660-136164/17 Client Sample ID:

Date Analyzed: 04/04/13 14:34 Lab File ID: 1DD04009.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.74	Split Peak	cantins	04/05/

Lab Sample ID: IC 660-136164/18 Client Sample ID:

Date Analyzed: 04/04/13 14:57 Lab File ID: 1DD04010.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.75	Split Peak	cantins	04/05/

Lab Sample ID: ICIS 660-136164/19 Client Sample ID:

Date Analyzed: 04/04/13 15:19 Lab File ID: 1DD04011.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.76	Split Peak	cantins	04/05/

Lab Sample ID: IC 660-136164/20 Client Sample ID:

Date Analyzed: 04/04/13 15:42 Lab File ID: 1DD04012.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.77	Split Peak	cantins	04/05/

Lab Sample ID: IC 660-136164/21 Client Sample ID:

Date Analyzed: 04/04/13 16:04 Lab File ID: 1DD04013.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.79	Split Peak	cantins	04/05/

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)

DB-5MS _____ ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Instrument ID: BSMD5973 Analysis Batch Number: 136164

Lab Sample ID: ICV 660-136164/22 Client Sample ID:

Date Analyzed: 04/04/13 16:27 Lab File ID: 1DD04014.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Carbazole	9.23	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	14.76	Split Peak	cantins	04/05/

DB-5MS _____ ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Instrument ID: BSMD5973 Analysis Batch Number: 136926

Lab Sample ID: CCVIS 660-136926/3 Client Sample ID:

Date Analyzed: 04/29/13 10:53 Lab File ID: 1DD29003.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.70	Split Peak	cantins	04/29/

Lab Sample ID: LCS 660-136834/2-A Client Sample ID:

Date Analyzed: 04/29/13 12:24 Lab File ID: 1DD29006.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.69	Split Peak	cantins	04/30/

Lab Sample ID: 680-89516-A-21-B MS Client Sample ID:

Date Analyzed: 04/29/13 18:02 Lab File ID: 1DD29021.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/30/

Lab Sample ID: 680-89516-A-21-C MSD Client Sample ID:

Date Analyzed: 04/29/13 18:25 Lab File ID: 1DD29022.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/30/

Lab Sample ID: 680-89695-1 Client Sample ID: FM0323A-CS

Date Analyzed: 04/29/13 18:47 Lab File ID: 1DD29023.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.70	Split Peak	cantins	04/30/
Dibenz(a,h)anthracene	14.71	Baseline Event	cantins	04/30/

Lab Sample ID: 680-89695-2 Client Sample ID: FM0323A-CSD

Date Analyzed: 04/29/13 19:10 Lab File ID: 1DD29024.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.72	Split Peak	cantins	04/30/
Benzo[g,h,i]perylene	15.16	Baseline Event	cantins	04/30/

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)

DB-5MS _____ ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Instrument ID: BSMD5973 Analysis Batch Number: 136926

Lab Sample ID: 680-89695-3 Client Sample ID: FM0323B-CS

Date Analyzed: 04/29/13 19:32 Lab File ID: 1DD29025.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	12.58	Split Peak	cantins	04/30/
Benzo[k]fluoranthene	12.61	Baseline Event	cantins	04/30/
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/30/
Dibenz(a,h)anthracene	14.73	Baseline Event	cantins	04/30/

Lab Sample ID: 680-89695-5 Client Sample ID: CV0773A-CS

Date Analyzed: 04/29/13 19:55 Lab File ID: 1DD29026.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.72	Split Peak	cantins	04/30/

Lab Sample ID: 680-89695-6 Client Sample ID: CV0773B-CS

Date Analyzed: 04/29/13 20:17 Lab File ID: 1DD29027.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.72	Split Peak	cantins	04/30/

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.: 680-89695-1

SDG No.: 68089695-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
FM0323A-CS	680-89695-1	49
FM0323A-CSD	680-89695-2	58
FM0323B-CS	680-89695-3	46
CV1329A-CS	680-89695-4	43
CV0773A-CS	680-89695-5	45
CV0773B-CS	680-89695-6	54
CV0809A-CS	680-89695-7	33
CV0809A-CSD	680-89695-8	63
CV1202A-CS	680-89695-9	55
CV1202B-CS	680-89695-10	62
CV1202B-CSD	680-89695-11	55
CV0147A-CS-SP	680-89695-12	46
CV0427A-CS-SP	680-89695-13	48
CV0427B-CS-SP	680-89695-14	50
CV0718A-CS-SP	680-89695-15	59
CV0718B-CS-SP	680-89695-16	56
HP0157A-CS-SP	680-89695-17	47
CV0575A-CS-SP	680-89695-18	47
CV0927A-CS-SP	680-89695-19	31
CV0927B-CS-SP	680-89695-20	54
	MB 660-136834/1-A	49
	MB 660-136855/1-A	63
	LCS 660-136834/2-A	57
	LCS 660-136855/2-A	65
	680-89516-A-21-B MS	43
CV1329A-CS MS	680-89695-4 MS	44
	680-89516-A-21-C MSD	38
CV1329A-CS MSD	680-89695-4 MSD	46

	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.: 680-89695-1

SDG No.: 68089695-1

Matrix: Solid Level: Low Lab File ID: 1DD29006.D

Lab ID: LCS 660-136834/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	669	341	51	39-130	
Acenaphthylene	669	360	54	38-130	
Anthracene	669	359	54	37-130	
Benzo[a]anthracene	669	392	59	40-130	
Benzo[a]pyrene	669	344	51	49-130	
Benzo[b]fluoranthene	669	412	62	37-130	
Benzo[g,h,i]perylene	669	382	57	32-130	
Benzo[k]fluoranthene	669	381	57	32-130	
Chrysene	669	359	54	41-130	
Dibenz(a,h)anthracene	669	399	60	27-130	
Fluoranthene	669	391	59	40-130	
Fluorene	669	382	57	40-130	
Indeno[1,2,3-cd]pyrene	669	372	56	30-130	
1-Methylnaphthalene	669	391	58	31-130	
2-Methylnaphthalene	669	379	57	33-130	
Naphthalene	669	366	55	36-130	
Phenanthrene	669	358	53	42-130	
Pyrene	669	356	53	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.: 680-89695-1

SDG No.: 68089695-1

Matrix: Solid Level: Low Lab File ID: 1AD29006.D

Lab ID: LCS 660-136855/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	656	395	60	39-130	
Acenaphthylene	656	392	60	38-130	
Anthracene	656	399	61	37-130	
Benzo[a]anthracene	656	400	61	40-130	
Benzo[a]pyrene	656	390	59	49-130	
Benzo[b]fluoranthene	656	430	66	37-130	
Benzo[g,h,i]perylene	656	396	60	32-130	
Benzo[k]fluoranthene	656	392	60	32-130	
Chrysene	656	376	57	41-130	
Dibenz(a,h)anthracene	656	462	70	27-130	
Fluoranthene	656	442	67	40-130	
Fluorene	656	420	64	40-130	
Indeno[1,2,3-cd]pyrene	656	423	64	30-130	
1-Methylnaphthalene	656	453	69	31-130	
2-Methylnaphthalene	656	430	66	33-130	
Naphthalene	656	410	63	36-130	
Phenanthrene	656	386	59	42-130	
Pyrene	656	413	63	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.: 680-89695-1

SDG No.: 68089695-1

Matrix: Solid Level: Low Lab File ID: 1DD29021.D

Lab ID: 680-89516-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	836	1000	398 J	-77	39-130	F
Acenaphthylene	836	160 J	423	31	38-130	F
Anthracene	836	2200	578	-196	37-130	F
Benzo[a]anthracene	836	4100	1190	-344	40-130	4
Benzo[a]pyrene	836	3500	999	-295	49-130	4
Benzo[b]fluoranthene	836	6200	1680	-542	37-130	4
Benzo[g,h,i]perylene	836	1400	530	-106	32-130	F
Benzo[k]fluoranthene	836	1900	889	-126	32-130	F
Chrysene	836	4100	1140	-357	41-130	4
Dibenz(a,h)anthracene	836	570	425	-17	27-130	F
Fluoranthene	836	11000	1720	-1078	40-130	4
Fluorene	836	1000	409	-75	40-130	F
Indeno[1,2,3-cd]pyrene	836	1400	585	-103	30-130	F
1-Methylnaphthalene	836	450	589	17	31-130	F
2-Methylnaphthalene	836	470	604	16	33-130	F
Naphthalene	836	540	543	0.5	36-130	F
Phenanthrene	836	9800	1170	-1029	42-130	4
Pyrene	836	6800	1270	-665	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.: 680-89695-1

SDG No.: 68089695-1

Matrix: Solid Level: Low Lab File ID: 1AD29008.D

Lab ID: 680-89695-4 MS Client ID: CV1329A-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	798	120 U	342	43	39-130	
Acenaphthylene	798	19 J	347	41	38-130	
Anthracene	798	32	374	43	37-130	
Benzo[a]anthracene	798	160	437	35	40-130	F
Benzo[a]pyrene	798	140	412	34	49-130	F
Benzo[b]fluoranthene	798	230	554	40	37-130	
Benzo[g,h,i]perylene	798	140	483	43	32-130	
Benzo[k]fluoranthene	798	87	341	32	32-130	
Chrysene	798	170	508	42	41-130	
Dibenz(a,h)anthracene	798	44	483	55	27-130	
Fluoranthene	798	250	537	36	40-130	F
Fluorene	798	9.0 J	352	43	40-130	
Indeno[1,2,3-cd]pyrene	798	130	505	47	30-130	
1-Methylnaphthalene	798	86	453	46	31-130	
2-Methylnaphthalene	798	110	456	43	33-130	
Naphthalene	798	110	455	44	36-130	
Phenanthrene	798	160	498	43	42-130	
Pyrene	798	220	522	38	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Matrix: Solid Level: Low Lab File ID: 1DD29022.D

Lab ID: 680-89516-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	836	328 J	-85	19	40	39-130	F
Acenaphthylene	836	369	25	14	40	38-130	F
Anthracene	836	785	-171	30	40	37-130	F
Benzo[a]anthracene	836	1680	-285	34	40	40-130	4
Benzo[a]pyrene	836	1290	-261	25	40	49-130	4
Benzo[b]fluoranthene	836	2060	-497	20	40	37-130	4
Benzo[g,h,i]perylene	836	646	-92	20	40	32-130	F
Benzo[k]fluoranthene	836	1110	-99	22	40	32-130	F
Chrysene	836	1530	-311	29	40	41-130	4
Dibenz(a,h)anthracene	836	433	-16	2	40	27-130	F
Fluoranthene	836	3100	-913	57	40	40-130	4 F
Fluorene	836	426	-73	4	40	40-130	F
Indeno[1,2,3-cd]pyrene	836	719	-87	20	40	30-130	F
1-Methylnaphthalene	836	399	-6	38	40	31-130	F
2-Methylnaphthalene	836	410	-7	38	40	33-130	F
Naphthalene	836	397	-17	31	40	36-130	F
Phenanthrene	836	1900	-942	47	40	42-130	4 F
Pyrene	836	2110	-565	50	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.: 680-89695-1

SDG No.: 68089695-1

Matrix: Solid Level: Low Lab File ID: 1AD29009.D

Lab ID: 680-89695-4 MSD Client ID: CV1329A-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	798	360	45	5	40	39-130	
Acenaphthylene	798	366	43	5	40	38-130	
Anthracene	798	414	48	10	40	37-130	
Benzo[a]anthracene	798	496	42	12	40	40-130	
Benzo[a]pyrene	798	459	40	11	40	49-130	F
Benzo[b]fluoranthene	798	619	48	11	40	37-130	
Benzo[g,h,i]perylene	798	500	45	3	40	32-130	
Benzo[k]fluoranthene	798	373	36	9	40	32-130	
Chrysene	798	531	45	4	40	41-130	
Dibenz(a,h)anthracene	798	497	57	3	40	27-130	
Fluoranthene	798	599	44	11	40	40-130	
Fluorene	798	363	44	3	40	40-130	
Indeno[1,2,3-cd]pyrene	798	537	51	6	40	30-130	
1-Methylnaphthalene	798	474	49	5	40	31-130	
2-Methylnaphthalene	798	504	49	10	40	33-130	
Naphthalene	798	528	53	15	40	36-130	
Phenanthrene	798	570	52	14	40	42-130	
Pyrene	798	555	42	6	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Lab File ID: 1DD29005.D Lab Sample ID: MB 660-136834/1-A

Matrix: Solid Date Extracted: 04/25/2013 12:29

Instrument ID: BSMD5973 Date Analyzed: 04/29/2013 12:01

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136834/2-A	1DD29006.D	04/29/2013 12:24
	680-89516-A-21-B MS	1DD29021.D	04/29/2013 18:02
	680-89516-A-21-C MSD	1DD29022.D	04/29/2013 18:25
FM0323A-CS	680-89695-1	1DD29023.D	04/29/2013 18:47
FM0323A-CSD	680-89695-2	1DD29024.D	04/29/2013 19:10
FM0323B-CS	680-89695-3	1DD29025.D	04/29/2013 19:32
CV0773A-CS	680-89695-5	1DD29026.D	04/29/2013 19:55
CV0773B-CS	680-89695-6	1DD29027.D	04/29/2013 20:17

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Lab File ID: 1AD29005.D Lab Sample ID: MB 660-136855/1-A

Matrix: Solid Date Extracted: 04/26/2013 07:28

Instrument ID: BSMA5973 Date Analyzed: 04/29/2013 13:08

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136855/2-A	1AD29006.D	04/29/2013 13:24
CV1329A-CS	680-89695-4	1AD29007.D	04/29/2013 13:39
CV1329A-CS MS	680-89695-4 MS	1AD29008.D	04/29/2013 13:54
CV1329A-CS MSD	680-89695-4 MSD	1AD29009.D	04/29/2013 14:09
CV0809A-CS	680-89695-7	1AD29010.D	04/29/2013 14:24
CV0809A-CSD	680-89695-8	1AD29011.D	04/29/2013 14:39
CV1202A-CS	680-89695-9	1AD29012.D	04/29/2013 14:54
CV1202B-CS	680-89695-10	1AD29013.D	04/29/2013 15:09
CV1202B-CSD	680-89695-11	1AD29014.D	04/29/2013 15:24
CV0147A-CS-SP	680-89695-12	1AD29015.D	04/29/2013 15:39
CV0427A-CS-SP	680-89695-13	1AD29016.D	04/29/2013 15:54
CV0427B-CS-SP	680-89695-14	1AD29017.D	04/29/2013 16:09
CV0718A-CS-SP	680-89695-15	1AD29018.D	04/29/2013 16:24
CV0718B-CS-SP	680-89695-16	1AD29019.D	04/29/2013 16:39
HP0157A-CS-SP	680-89695-17	1AD29020.D	04/29/2013 16:54
CV0575A-CS-SP	680-89695-18	1AD29021.D	04/29/2013 17:09
CV0927A-CS-SP	680-89695-19	1AD29022.D	04/29/2013 17:24
CV0927B-CS-SP	680-89695-20	1AD29023.D	04/29/2013 17:39

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

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Lab File ID: 1AD26002.D DFTPP Injection Date: 04/26/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 09:50

Analysis Batch No.: 136892

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	31.9	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	29.9	
70	Less than 2.0 % of mass 69	0.3	(0.9)1
127	10.0 - 80.0 % of mass 198	38.3	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.5	
275	10.0 - 60.0 % of mass 198	25.5	
365	Greater than 1.0 % of mass 198	3.3	
441	Present but less than mass 443	11.6	
442	Greater than 50.0 % of mass 198	84.2	
443	15.0 - 24.0 % of mass 442	15.5	(18.4)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-136892/3	1AD26003.D	04/26/2013	10:03
	IC 660-136892/4	1AD26004.D	04/26/2013	10:18
	IC 660-136892/5	1AD26005.D	04/26/2013	10:33
	IC 660-136892/6	1AD26006.D	04/26/2013	10:48
	ICIS 660-136892/7	1AD26007.D	04/26/2013	11:03
	IC 660-136892/8	1AD26008.D	04/26/2013	11:19
	IC 660-136892/9	1AD26009.D	04/26/2013	11:34
	ICV 660-136892/10	1AD26010.D	04/26/2013	11:49

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

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Lab File ID: 1AD29002.D DFTPP Injection Date: 04/29/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 12:12

Analysis Batch No.: 136961

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	40.9	
68	Less than 2.0 % of mass 69	0.6	(1.7)1
69	Mass 69 relative abundance	36.8	
70	Less than 2.0 % of mass 69	0.5	(1.3)1
127	10.0 - 80.0 % of mass 198	46.0	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.9	
275	10.0 - 60.0 % of mass 198	23.1	
365	Greater than 1.0 % of mass 198	2.7	
441	Present but less than mass 443	9.0	
442	Greater than 50.0 % of mass 198	57.6	
443	15.0 - 24.0 % of mass 442	11.1	(19.2)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 660-136961/3	1AD29003.D	04/29/2013	12:29
	MB 660-136855/1-A	1AD29005.D	04/29/2013	13:08
	LCS 660-136855/2-A	1AD29006.D	04/29/2013	13:24
CV1329A-CS	680-89695-4	1AD29007.D	04/29/2013	13:39
CV1329A-CS MS	680-89695-4 MS	1AD29008.D	04/29/2013	13:54
CV1329A-CS MSD	680-89695-4 MSD	1AD29009.D	04/29/2013	14:09
CV0809A-CS	680-89695-7	1AD29010.D	04/29/2013	14:24
CV0809A-CSD	680-89695-8	1AD29011.D	04/29/2013	14:39
CV1202A-CS	680-89695-9	1AD29012.D	04/29/2013	14:54
CV1202B-CS	680-89695-10	1AD29013.D	04/29/2013	15:09
CV1202B-CSD	680-89695-11	1AD29014.D	04/29/2013	15:24
CV0147A-CS-SP	680-89695-12	1AD29015.D	04/29/2013	15:39
CV0427A-CS-SP	680-89695-13	1AD29016.D	04/29/2013	15:54
CV0427B-CS-SP	680-89695-14	1AD29017.D	04/29/2013	16:09
CV0718A-CS-SP	680-89695-15	1AD29018.D	04/29/2013	16:24
CV0718B-CS-SP	680-89695-16	1AD29019.D	04/29/2013	16:39
HP0157A-CS-SP	680-89695-17	1AD29020.D	04/29/2013	16:54
CV0575A-CS-SP	680-89695-18	1AD29021.D	04/29/2013	17:09
CV0927A-CS-SP	680-89695-19	1AD29022.D	04/29/2013	17:24
CV0927B-CS-SP	680-89695-20	1AD29023.D	04/29/2013	17:39

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

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Lab File ID: 1DD04003.D DFTPP Injection Date: 04/04/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 12:15

Analysis Batch No.: 136164

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	44.9	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	45.4	
70	Less than 2.0 % of mass 69	0.2	(0.3)1
127	10.0 - 80.0 % of mass 198	50.5	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.9	
275	10.0 - 60.0 % of mass 198	26.7	
365	Greater than 1.0 % of mass 198	3.1	
441	Present but less than mass 443	3.3	
442	Greater than 50.0 % of mass 198	67.1	
443	15.0 - 24.0 % of mass 442	13.9	(20.6)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-136164/15	1DD04007.D	04/04/2013	13:49
	IC 660-136164/16	1DD04008.D	04/04/2013	14:11
	IC 660-136164/17	1DD04009.D	04/04/2013	14:34
	IC 660-136164/18	1DD04010.D	04/04/2013	14:57
	ICIS 660-136164/19	1DD04011.D	04/04/2013	15:19
	IC 660-136164/20	1DD04012.D	04/04/2013	15:42
	IC 660-136164/21	1DD04013.D	04/04/2013	16:04
	ICV 660-136164/22	1DD04014.D	04/04/2013	16:27

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

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Lab File ID: 1DD29002.D DFTPP Injection Date: 04/29/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 10:35

Analysis Batch No.: 136926

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	43.5	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	42.0	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	46.9	
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	6.8	
275	10.0 - 60.0 % of mass 198	29.3	
365	Greater than 1.0 % of mass 198	4.6	
441	Present but less than mass 443	13.4	
442	Greater than 50.0 % of mass 198	81.6	
443	15.0 - 24.0 % of mass 442	15.8	(19.3)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136926/3	1DD29003.D	04/29/2013	10:53
	MB 660-136834/1-A	1DD29005.D	04/29/2013	12:01
	LCS 660-136834/2-A	1DD29006.D	04/29/2013	12:24
	680-89516-A-21-B MS	1DD29021.D	04/29/2013	18:02
	680-89516-A-21-C MSD	1DD29022.D	04/29/2013	18:25
FM0323A-CS	680-89695-1	1DD29023.D	04/29/2013	18:47
FM0323A-CSD	680-89695-2	1DD29024.D	04/29/2013	19:10
FM0323B-CS	680-89695-3	1DD29025.D	04/29/2013	19:32
CV0773A-CS	680-89695-5	1DD29026.D	04/29/2013	19:55
CV0773B-CS	680-89695-6	1DD29027.D	04/29/2013	20:17

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

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Sample No.: ICIS 660-136892/7 Date Analyzed: 04/26/2013 11:03

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

Lab File ID (Standard): 1AD26007.D Heated Purge: (Y/N) N

Calibration ID: 2919

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2358748	2.58	1131055	3.61	1941405	4.56
UPPER LIMIT		4717496	3.08	2262110	4.11	3882810	5.06
LOWER LIMIT		1179374	2.08	565528	3.11	970703	4.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136892/10		2252499	2.58	1126401	3.61	2015970	4.56

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.: 680-89695-1

SDG No.: 68089695-1

Sample No.: ICIS 660-136892/7 Date Analyzed: 04/26/2013 11:03

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

Lab File ID (Standard): 1AD26007.D Heated Purge: (Y/N) N

Calibration ID: 2919

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1806882	6.58	1862358	7.67		
UPPER LIMIT		3613764	7.08	3724716	8.17		
LOWER LIMIT		903441	6.08	931179	7.17		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136892/10		1842442	6.58	2029776	7.67		

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.: 680-89695-1

SDG No.: 68089695-1

Sample No.: CCVIS 660-136961/3 Date Analyzed: 04/29/2013 12:29

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

Lab File ID (Standard): 1AD29003.D Heated Purge: (Y/N) N

Calibration ID: 2919

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1768522	2.57	946168	3.60	1657570	4.55
UPPER LIMIT		3537044	3.07	1892336	4.10	3315140	5.05
LOWER LIMIT		884261	2.07	473084	3.10	828785	4.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136855/1-A		2490016	2.57	1293513	3.61	2244776	4.56
LCS 660-136855/2-A		2197337	2.58	1155712	3.61	2046244	4.56
680-89695-4	CV1329A-CS	2172779	2.57	1119810	3.60	1810873	4.55
680-89695-4 MS	CV1329A-CS MS	1871480	2.58	952358	3.61	1516673	4.56
680-89695-4 MSD	CV1329A-CS MSD	2041703	2.58	1062859	3.61	1728645	4.56
680-89695-7	CV0809A-CS	1896463	2.58	949725	3.61	1524339	4.56
680-89695-8	CV0809A-CSD	1772832	2.58	877769	3.61	1440060	4.56
680-89695-9	CV1202A-CS	1879797	2.58	938749	3.61	1500128	4.56
680-89695-10	CV1202B-CS	1695352	2.58	838081	3.61	1336916	4.56
680-89695-11	CV1202B-CSD	1737756	2.58	881589	3.61	1425975	4.56
680-89695-12	CV0147A-CS-SP	2126204	2.58	1103583	3.61	1704989	4.56
680-89695-13	CV0427A-CS-SP	1646760	2.58	814905	3.61	1280886	4.56
680-89695-14	CV0427B-CS-SP	1690671	2.58	866305	3.61	1334851	4.56
680-89695-15	CV0718A-CS-SP	1816739	2.58	919270	3.61	1459782	4.56
680-89695-16	CV0718B-CS-SP	1856864	2.58	934736	3.61	1473973	4.56
680-89695-17	HP0157A-CS-SP	2053034	2.58	1048413	3.61	1726511	4.56
680-89695-18	CV0575A-CS-SP	1832738	2.58	911069	3.61	1457841	4.56
680-89695-19	CV0927A-CS-SP	1739669	2.58	867210	3.61	1357259	4.57
680-89695-20	CV0927B-CS-SP	1769508	2.58	901507	3.61	1497914	4.56

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.: 680-89695-1

SDG No.: 68089695-1

Sample No.: CCVIS 660-136961/3 Date Analyzed: 04/29/2013 12:29

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

Lab File ID (Standard): 1AD29003.D Heated Purge: (Y/N) N

Calibration ID: 2919

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1550259	6.57	1599138	7.66		
UPPER LIMIT		3100518	7.07	3198276	8.16		
LOWER LIMIT		775130	6.07	799569	7.16		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136855/1-A		2148223	6.57	2133331	7.66		
LCS 660-136855/2-A		1891133	6.57	1900613	7.66		
680-89695-4	CV1329A-CS	1584619	6.57	1840718	7.66		
680-89695-4 MS	CV1329A-CS MS	1307573	6.58	1668789	7.66		
680-89695-4 MSD	CV1329A-CS MSD	1643288	6.59	2068854	7.68		
680-89695-7	CV0809A-CS	1398598	6.58	1767863	7.67		
680-89695-8	CV0809A-CSD	1367730	6.58	1701812	7.67		
680-89695-9	CV1202A-CS	1429633	6.58	1807382	7.67		
680-89695-10	CV1202B-CS	1361637	6.58	1707144	7.67		
680-89695-11	CV1202B-CSD	1456895	6.58	1864110	7.67		
680-89695-12	CV0147A-CS-SP	1765457	6.59	2183715	7.68		
680-89695-13	CV0427A-CS-SP	1378058	6.59	1695403	7.68		
680-89695-14	CV0427B-CS-SP	1401520	6.59	1773331	7.67		
680-89695-15	CV0718A-CS-SP	1465976	6.58	1794235	7.68		
680-89695-16	CV0718B-CS-SP	1595249	6.59	1957248	7.68		
680-89695-17	HP0157A-CS-SP	1809913	6.59	2163191	7.68		
680-89695-18	CV0575A-CS-SP	1585207	6.59	1962640	7.68		
680-89695-19	CV0927A-CS-SP	1489866	6.59	1750489	7.68		
680-89695-20	CV0927B-CS-SP	1611990	6.59	1866486	7.69		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Sample No.: ICIS 660-136164/19 Date Analyzed: 04/04/2013 15:19

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

Lab File ID (Standard): 1DD04011.D Heated Purge: (Y/N) N

Calibration ID: 2874

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2475113	6.09	1466924	7.77	2428512	9.03
UPPER LIMIT		4950226	6.59	2933848	8.27	4857024	9.53
LOWER LIMIT		1237557	5.59	733462	7.27	1214256	8.53
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136164/22		3619899	6.10	2333423	7.77	3845474	9.03

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.: 680-89695-1

SDG No.: 68089695-1

Sample No.: ICIS 660-136164/19 Date Analyzed: 04/04/2013 15:19

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

Lab File ID (Standard): 1DD04011.D Heated Purge: (Y/N) N

Calibration ID: 2874

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2464730	11.34	2515643	13.17		
UPPER LIMIT		4929460	11.84	5031286	13.67		
LOWER LIMIT		1232365	10.84	1257822	12.67		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136164/22		3963674	11.35	3958481	13.18		

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.: 680-89695-1

SDG No.: 68089695-1

Sample No.: CCVIS 660-136926/3 Date Analyzed: 04/29/2013 10:53

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

Lab File ID (Standard): 1DD29003.D Heated Purge: (Y/N) N

Calibration ID: 2874

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2011680	6.04	1256984	7.72	2242084	8.98
UPPER LIMIT		4023360	6.54	2513968	8.22	4484168	9.48
LOWER LIMIT		1005840	5.54	628492	7.22	1121042	8.48
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136834/1-A		2504795	6.03	1651676	7.72	2816239	8.98
LCS 660-136834/2-A		2579733	6.03	1703760	7.72	2881528	8.98
680-89516-A-21-B MS		2442745	6.04	1631245	7.72	2681572	8.99
680-89516-A-21-C MSD		2506987	6.04	1641156	7.72	2751357	8.99
680-89695-1	FM0323A-CS	2516567	6.04	1630970	7.72	2766363	8.99
680-89695-2	FM0323A-CSD	2449411	6.04	1644449	7.72	2762590	8.99
680-89695-3	FM0323B-CS	2570918	6.04	1673101	7.72	2797007	8.99
680-89695-5	CV0773A-CS	2578165	6.04	1696204	7.73	2822267	8.99
680-89695-6	CV0773B-CS	2657297	6.05	1732714	7.73	2921977	8.99

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.: 680-89695-1

SDG No.: 68089695-1

Sample No.: CCVIS 660-136926/3 Date Analyzed: 04/29/2013 10:53

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

Lab File ID (Standard): 1DD29003.D Heated Purge: (Y/N) N

Calibration ID: 2874

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2345593	11.30	2212652	13.12		
UPPER LIMIT		4691186	11.80	4425304	13.62		
LOWER LIMIT		1172797	10.80	1106326	12.62		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136834/1-A		2803871	11.29	2774736	13.13		
LCS 660-136834/2-A		3025700	11.30	2906735	13.12		
680-89516-A-21-B MS		2884263	11.30	2623887	13.14		
680-89516-A-21-C MSD		2895362	11.30	2574866	13.14		
680-89695-1	FM0323A-CS	2847418	11.30	2566973	13.13		
680-89695-2	FM0323A-CSD	2834739	11.31	2440906	13.14		
680-89695-3	FM0323B-CS	2926823	11.30	2517288	13.13		
680-89695-5	CV0773A-CS	2913261	11.30	2420660	13.14		
680-89695-6	CV0773B-CS	3115050	11.30	2523695	13.14		

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.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: FM0323A-CS | Lab Sample ID: 680-89695-1

Matrix: Solid | Lab File ID: 1DD29023.D

Analysis Method: 8270C LL | Date Collected: 04/22/2013 13:30

Extract. Method: 3546 | Date Extracted: 04/25/2013 12:29

Sample wt/vol: 15.03(g) | Date Analyzed: 04/29/2013 18:47

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

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

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136926 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	460	U	460	92
208-96-8	Acenaphthylene	180	U	180	23
120-12-7	Anthracene	39	U	39	19
56-55-3	Benzo[a]anthracene	71		37	18
50-32-8	Benzo[a]pyrene	58		48	24
205-99-2	Benzo[b]fluoranthene	120		56	28
191-24-2	Benzo[g,h,i]perylene	43	J	92	20
207-08-9	Benzo[k]fluoranthene	31	J	37	17
218-01-9	Chrysene	140		42	21
53-70-3	Dibenz(a,h)anthracene	24	J	92	19
206-44-0	Fluoranthene	94		92	18
86-73-7	Fluorene	92	U	92	19
193-39-5	Indeno[1,2,3-cd]pyrene	92	U	92	33
90-12-0	1-Methylnaphthalene	93	J	180	20
91-57-6	2-Methylnaphthalene	100	J	180	33
91-20-3	Naphthalene	55	J	180	20
85-01-8	Phenanthrene	120		37	18
129-00-0	Pyrene	81	J	92	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	49		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\1DD29023.D
Lab Smp Id: 680-89695-A-1-A Client Smp ID: FM0323A-CS
Inj Date : 29-APR-2013 18:47
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89695-a-1-a
Misc Info : 680-89695-A-1-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\dFASTPAHi.m
Meth Date : 29-Apr-2013 11:13 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.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	15.030	Weight Extracted
M	14.000	% 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	6.042	6.037	(1.000)	2516567	40.0000	
* 6 Acenaphthene-d10	164	7.722	7.717	(1.000)	1630970	40.0000	
* 9 Phenanthrene-d10	188	8.986	8.980	(1.000)	2766363	40.0000	
$ 13 o-Terphenyl	230	9.285	9.286	(1.033)	51180	1.22787	380
* 17 Chrysene-d12	240	11.301	11.295	(1.000)	2847418	40.0000	
* 22 Perylene-d12	264	13.134	13.117	(1.000)	2566973	40.0000	
2 Naphthalene	128	6.060	6.054	(1.003)	11129	0.17792	55(Q)
3 2-Methylnaphthalene	142	6.765	6.765	(1.120)	13121	0.32495	100
4 1-Methylnaphthalene	142	6.859	6.859	(1.135)	11509	0.30183	93
10 Phenanthrene	178	9.003	8.998	(1.002)	28785	0.37776	120
11 Anthracene	178	9.038	9.039	(1.006)	3735	0.04939	15
14 Fluoranthene	202	9.984	9.985	(1.111)	23939	0.30530	94
15 Pyrene	202	10.172	10.173	(0.900)	22442	0.26246	81
16 Benzo(a)anthracene	228	11.289	11.278	(0.999)	19108	0.23211	72(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
18 Chrysene	228	11.318	11.319	(1.002)	35338	0.45780	140
19 Benzo(b)fluoranthene	252	12.570	12.570	(0.957)	25988	0.40528	120
20 Benzo(k)fluoranthene	252	12.611	12.611	(0.960)	6855	0.10147	31
21 Benzo(a)pyrene	252	13.022	13.023	(0.992)	12233	0.18987	59
23 Indeno(1,2,3-cd)pyrene	276	14.697	14.703	(1.119)	5249	0.07640	24(MH)
24 Dibenzo(a,h)anthracene	278	14.714	14.732	(1.120)	4950	0.07651	24(M)
25 Benzo(g,h,i)perylene	276	15.131	15.144	(1.152)	9277	0.14024	43

QC Flag Legend

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

Data File: 1DD29023.D

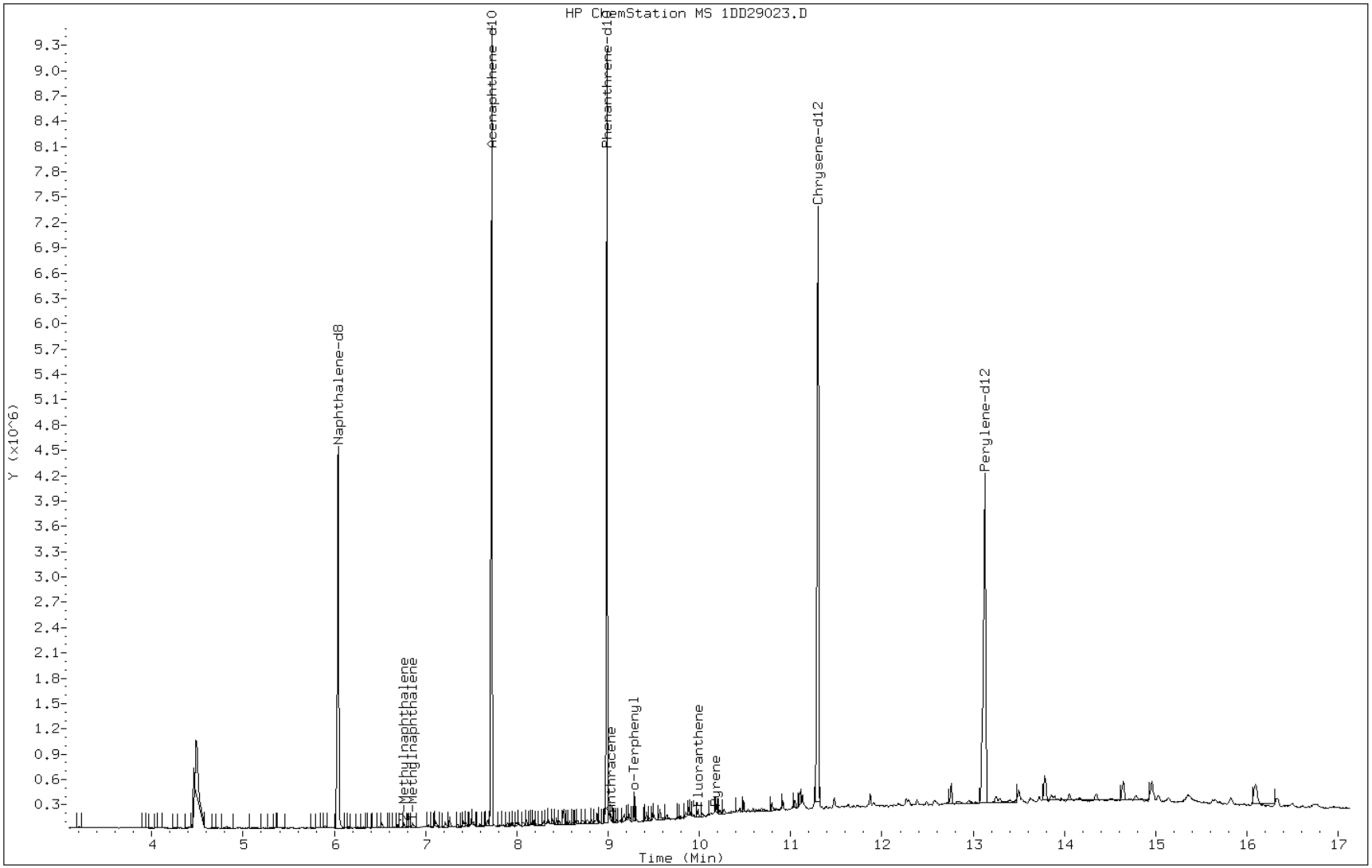
Date: 29-APR-2013 18:47

Client ID: FM0323A-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-1-a

Operator: SCC



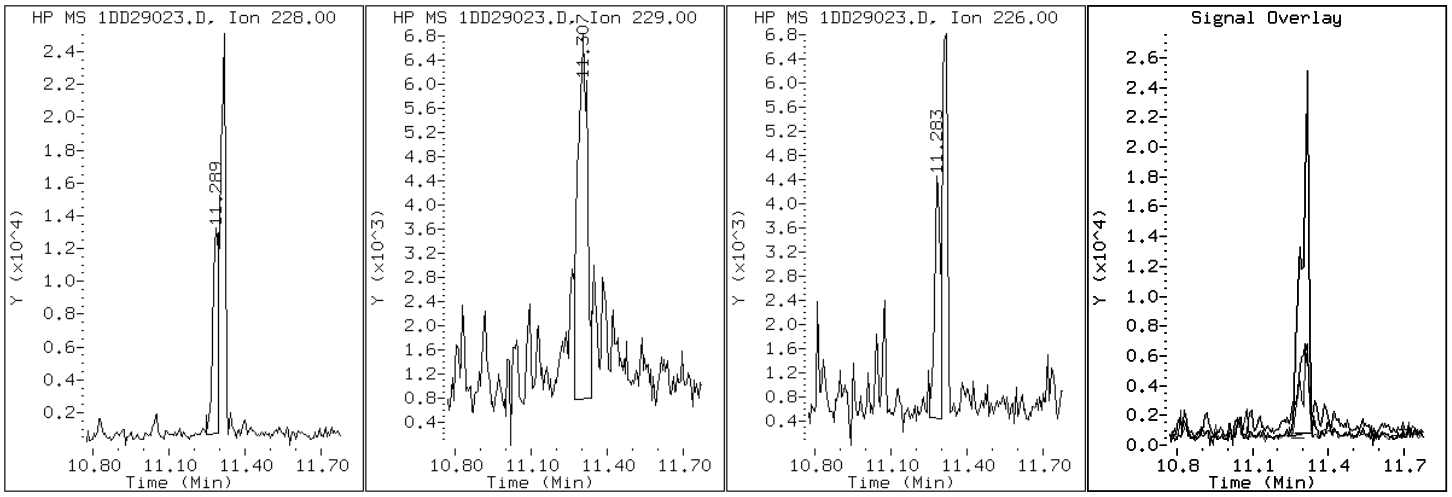
Data File: 1DD29023.D

Date: 29-APR-2013 18:47

Client ID: FM0323A-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-1-a Operator: SCC

16 Benzo(a)anthracene



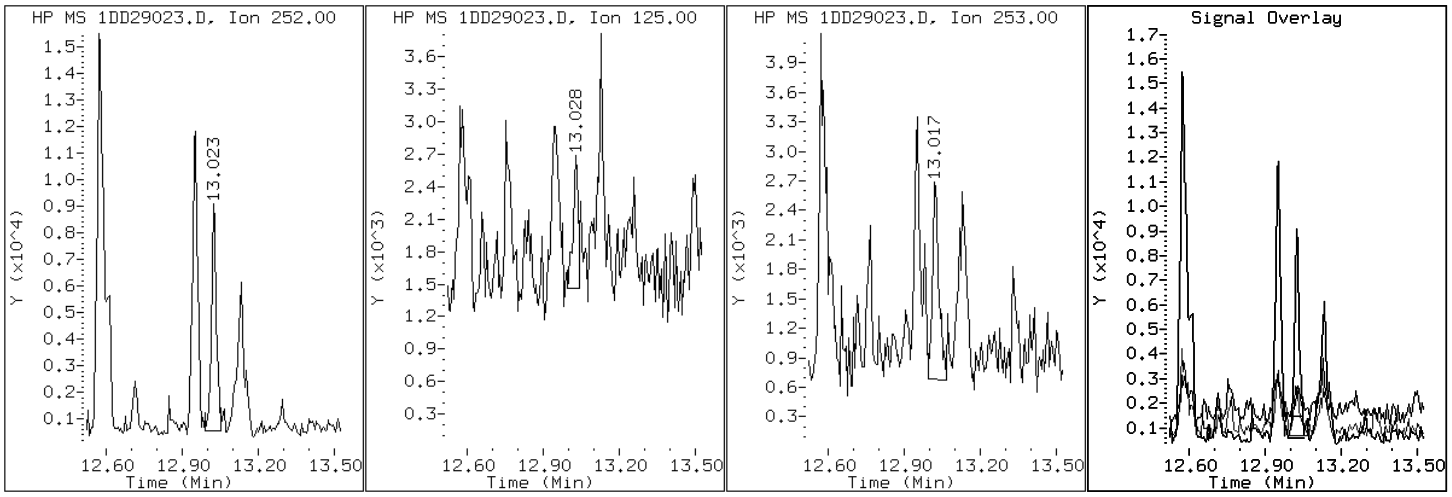
Data File: 1DD29023.D

Date: 29-APR-2013 18:47

Client ID: FM0323A-CS | Instrument: BSMSD.i

Sample Info: 680-89695-a-1-a | Operator: SCC

21 Benzo(a)pyrene



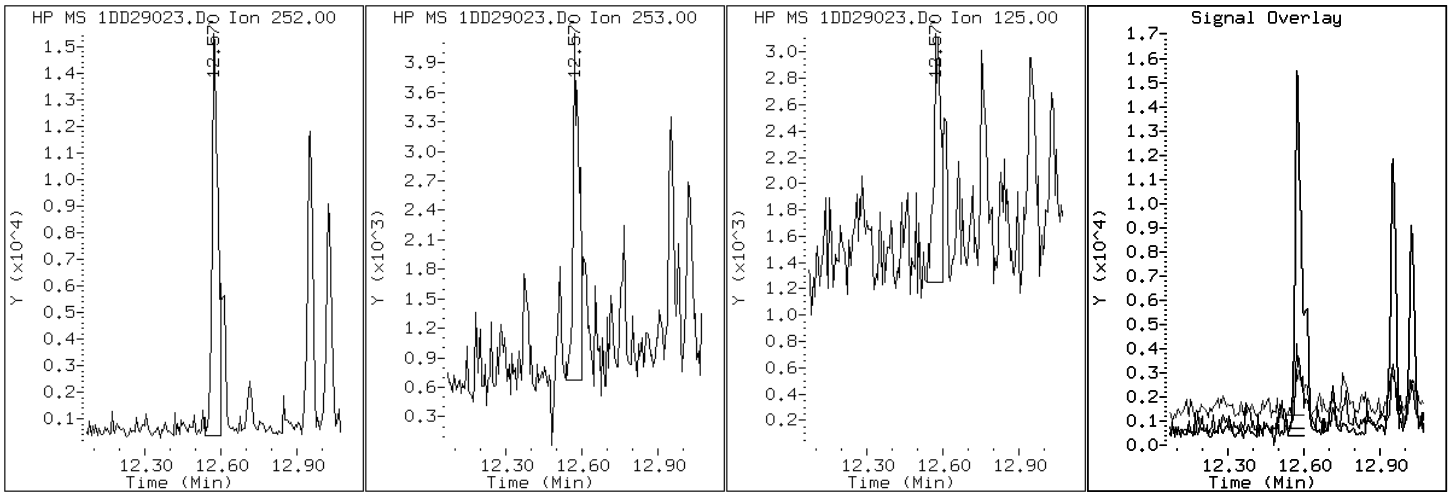
Data File: 1DD29023.D

Date: 29-APR-2013 18:47

Client ID: FM0323A-CS | Instrument: BSMSD.i

Sample Info: 680-89695-a-1-a | Operator: SCC

19 Benzo(b)fluoranthene



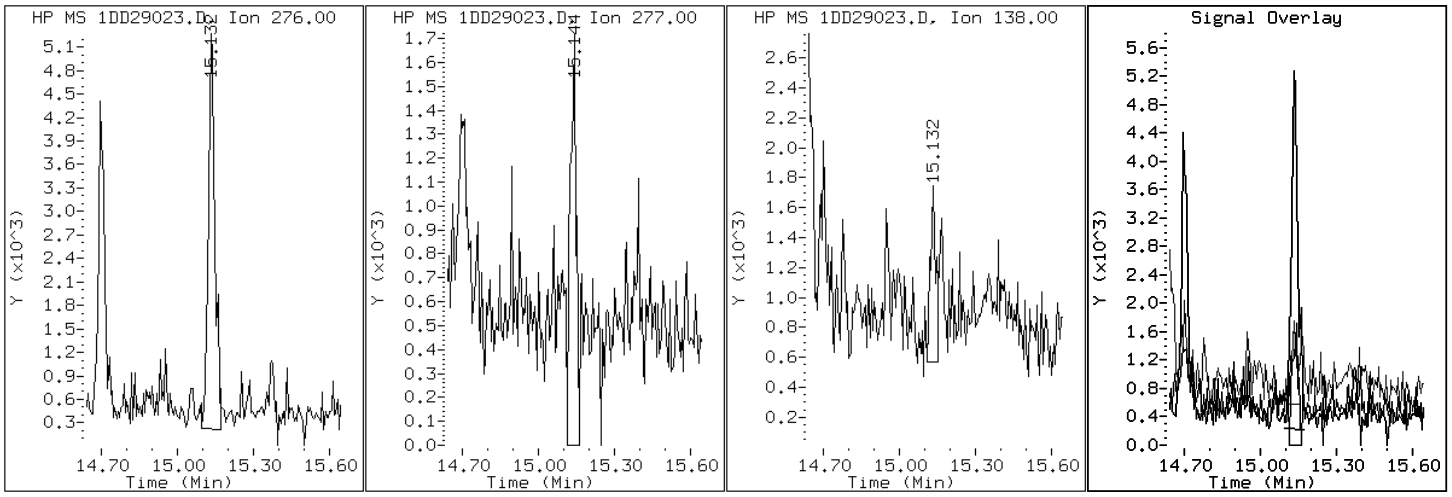
Data File: 1DD29023.D

Date: 29-APR-2013 18:47

Client ID: FM0323A-CS | Instrument: BSMSD.i

Sample Info: 680-89695-a-1-a | Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD29023.D

Date: 29-APR-2013 18:47

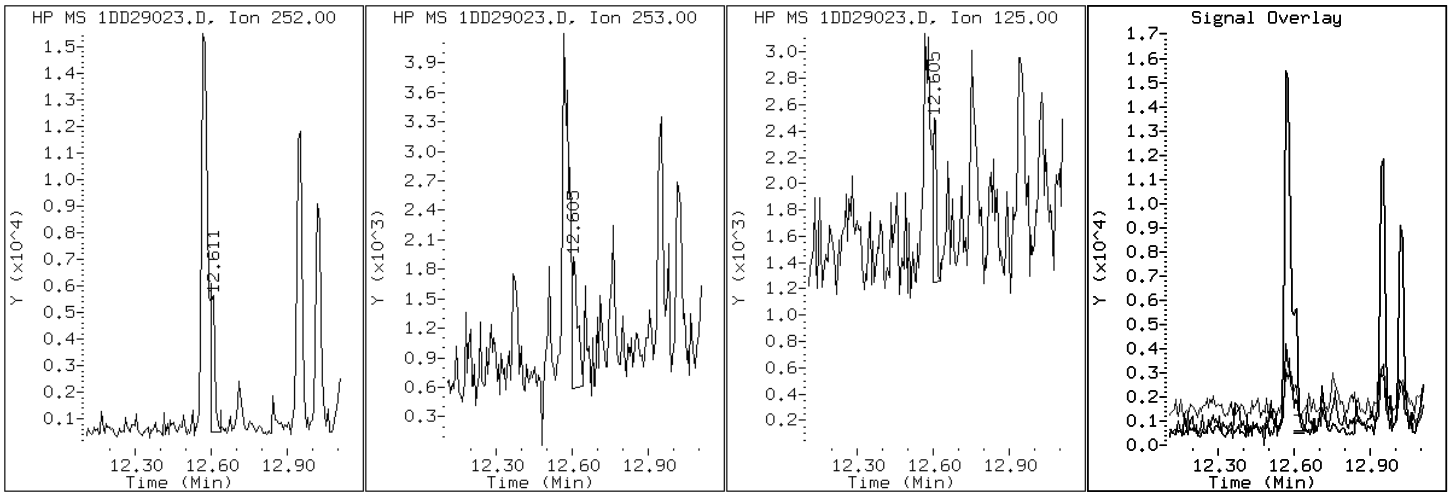
Client ID: FM0323A-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-1-a

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD29023.D

Date: 29-APR-2013 18:47

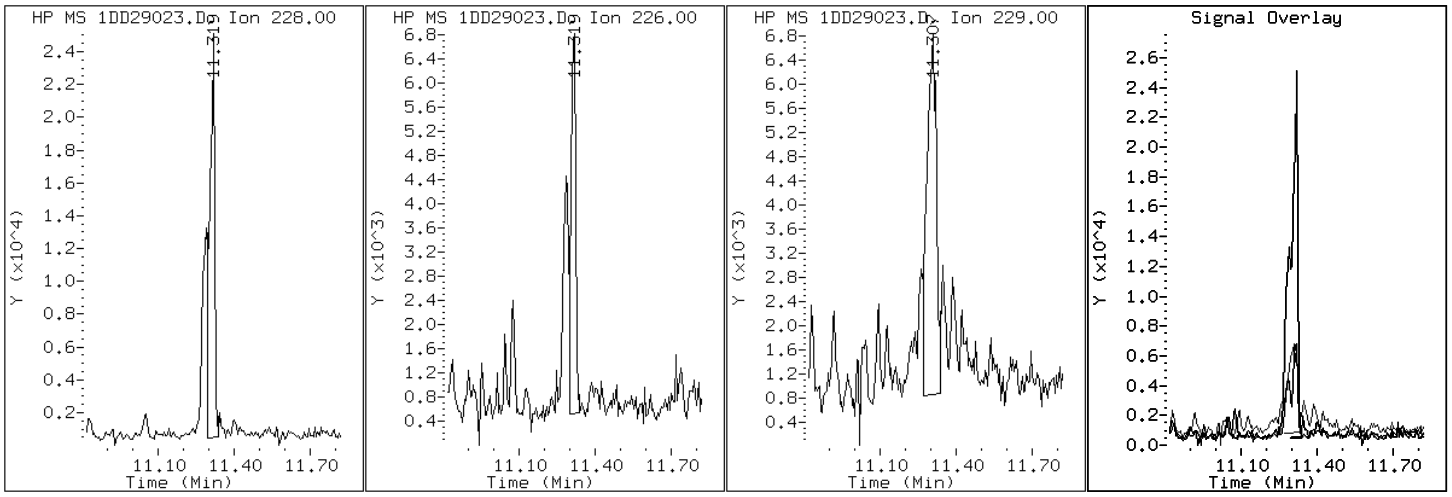
Client ID: FM0323A-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-1-a

Operator: SCC

18 Chrysene



Data File: 1DD29023.D

Date: 29-APR-2013 18:47

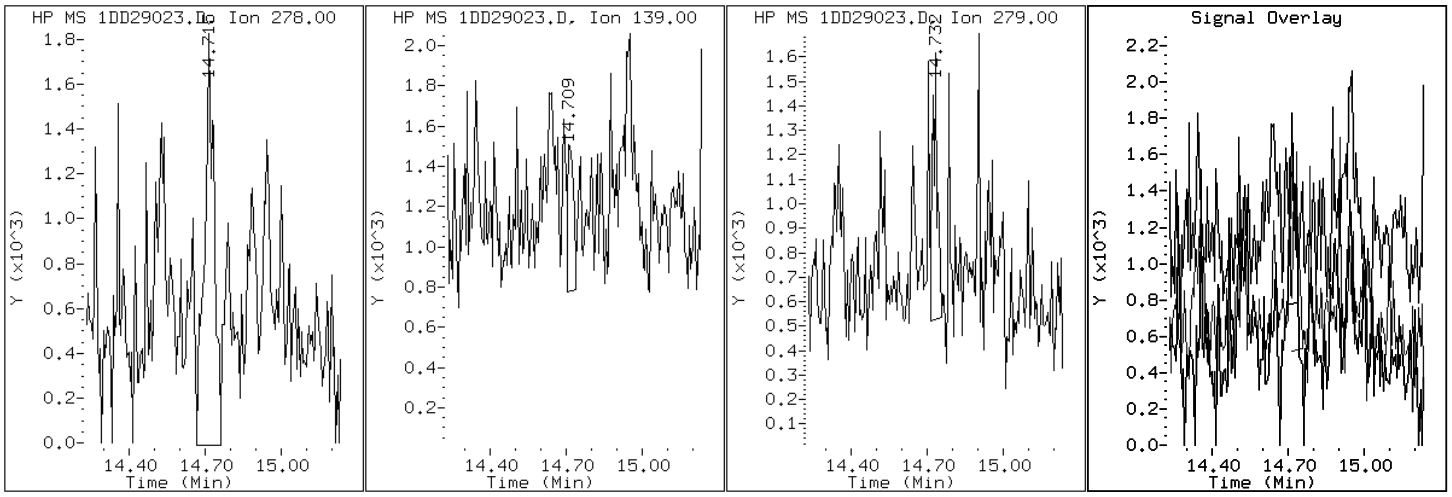
Client ID: FM0323A-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-1-a

Operator: SCC

24 Dibenzo(a,h)anthracene



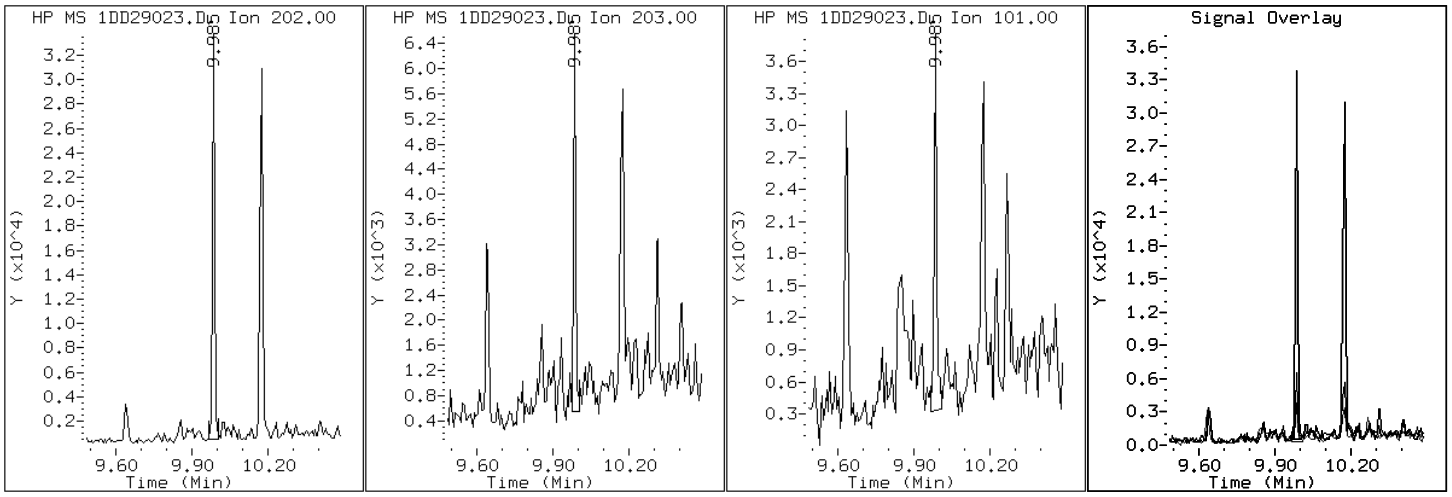
Data File: 1DD29023.D

Date: 29-APR-2013 18:47

Client ID: FM0323A-CS | Instrument: BSMSD.i

Sample Info: 680-89695-a-1-a | Operator: SCC

14 Fluoranthene



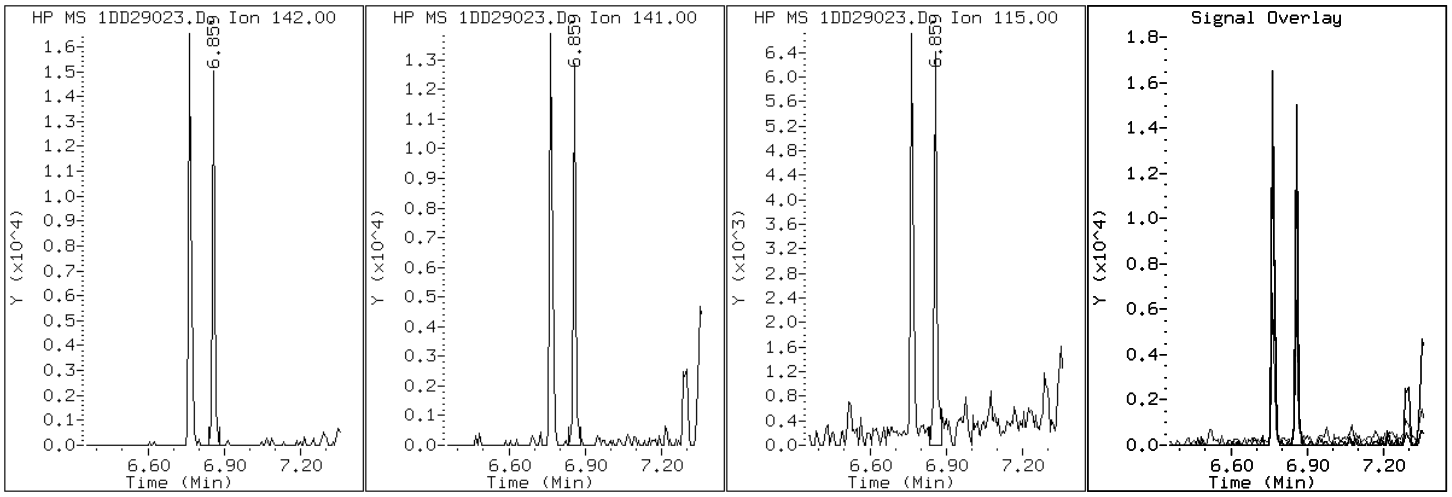
Data File: 1DD29023.D

Date: 29-APR-2013 18:47

Client ID: FM0323A-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-1-a Operator: SCC

4 1-Methylnaphthalene



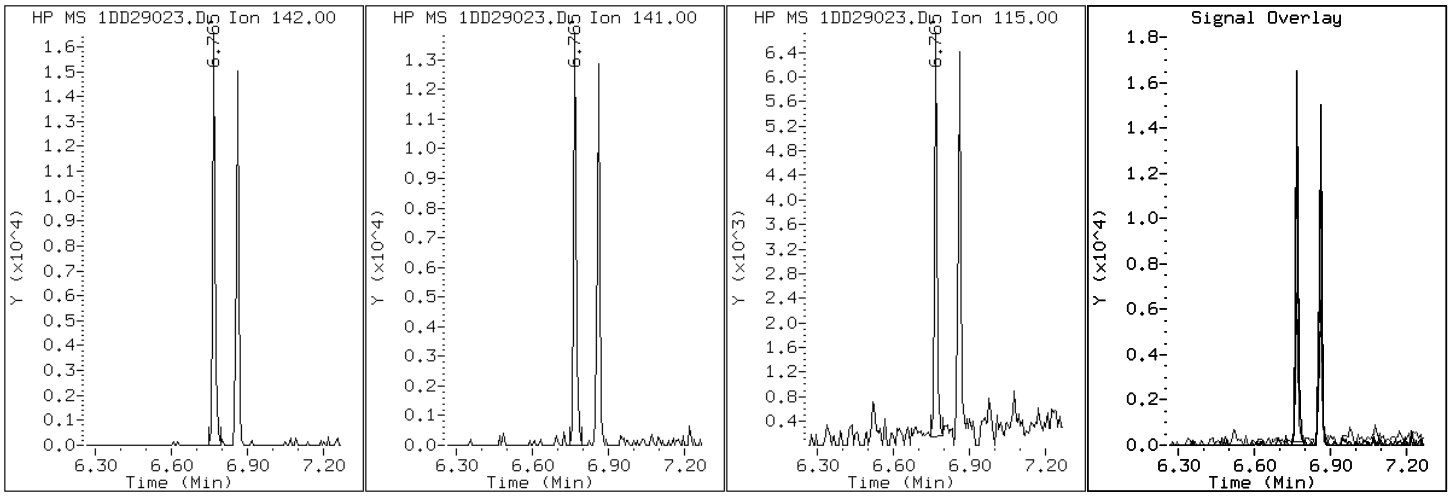
Data File: 1DD29023.D

Date: 29-APR-2013 18:47

Client ID: FM0323A-CS | Instrument: BSMSD.i

Sample Info: 680-89695-a-1-a | Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD29023.D

Date: 29-APR-2013 18:47

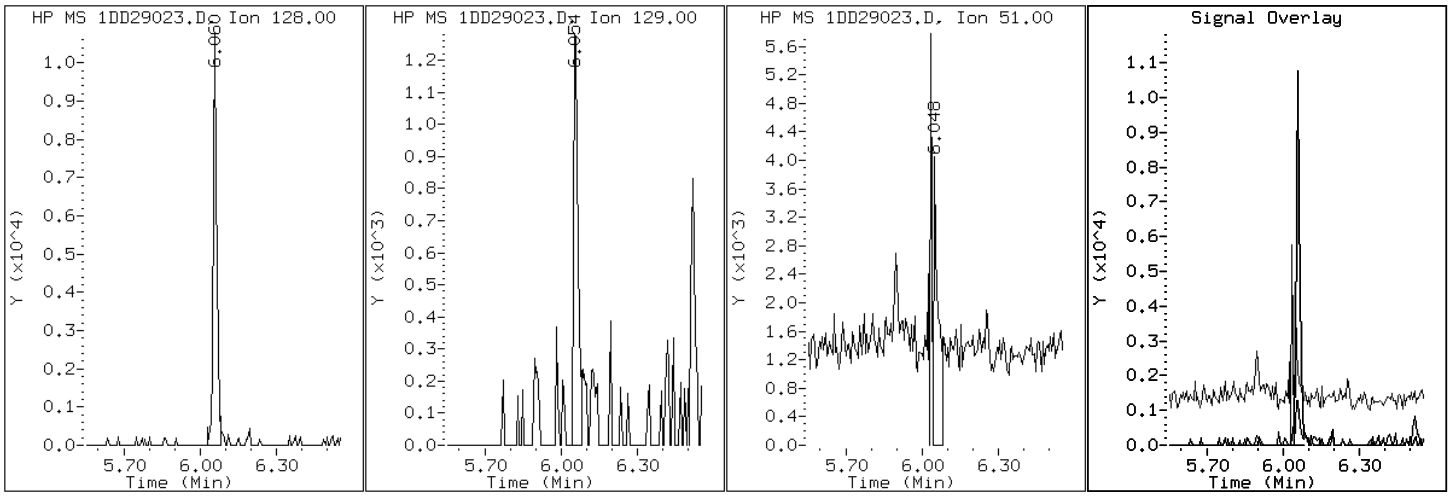
Client ID: FM0323A-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-1-a

Operator: SCC

2 Naphthalene



Data File: 1DD29023.D

Date: 29-APR-2013 18:47

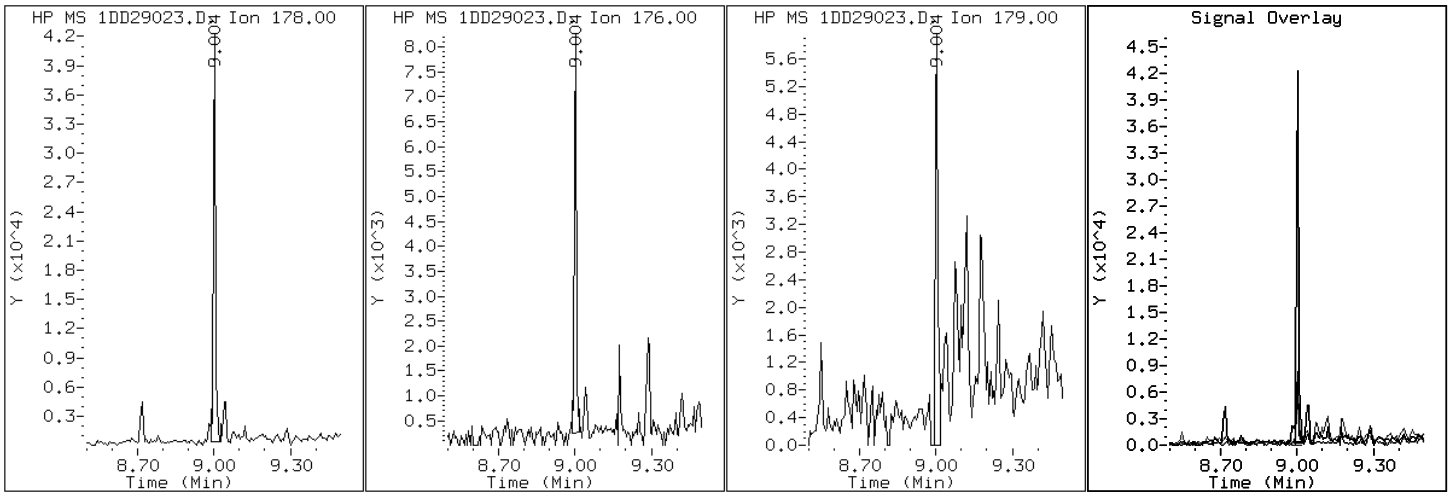
Client ID: FM0323A-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-1-a

Operator: SCC

10 Phenanthrene



Data File: 1DD29023.D

Date: 29-APR-2013 18:47

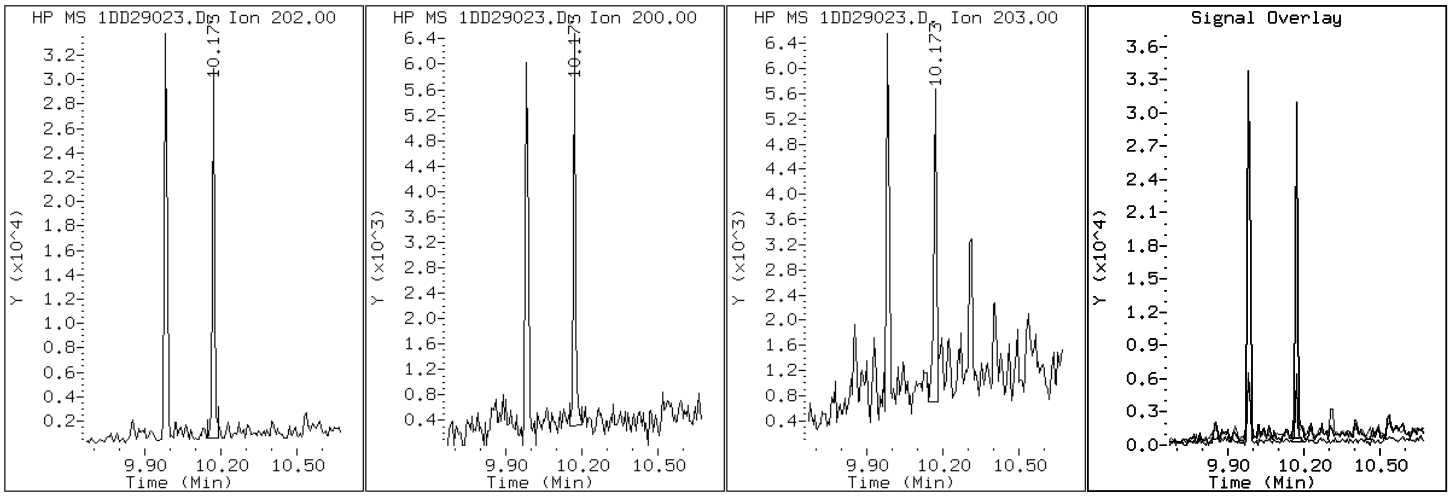
Client ID: FM0323A-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-1-a

Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD29023.D
Inj. Date and Time: 29-APR-2013 18:47
Instrument ID: BSMSD.i
Client ID: FM0323A-CS
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/30/2013

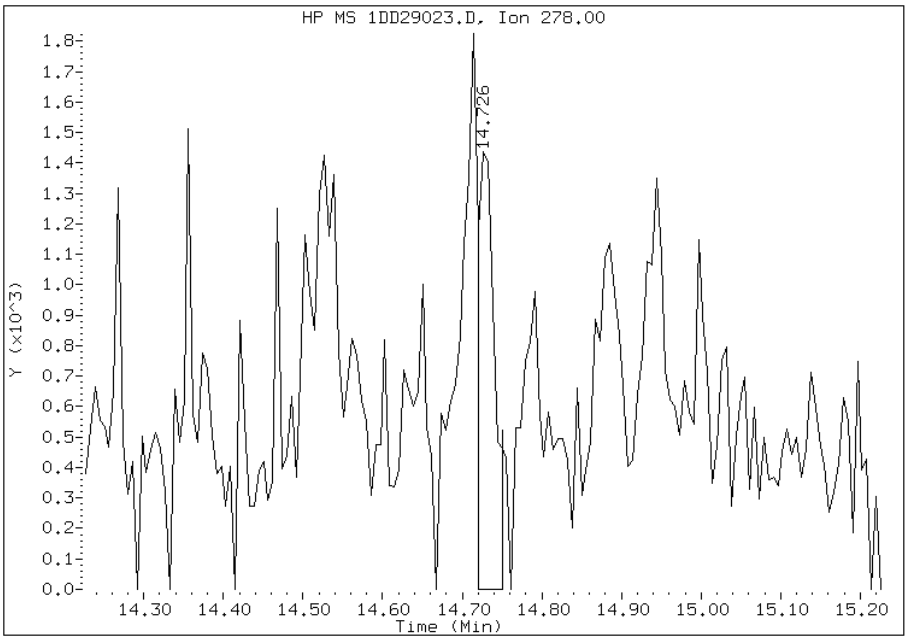
Processing Integration Results

RT: 14.73

Response: 2082

Amount: 0

Conc: 10



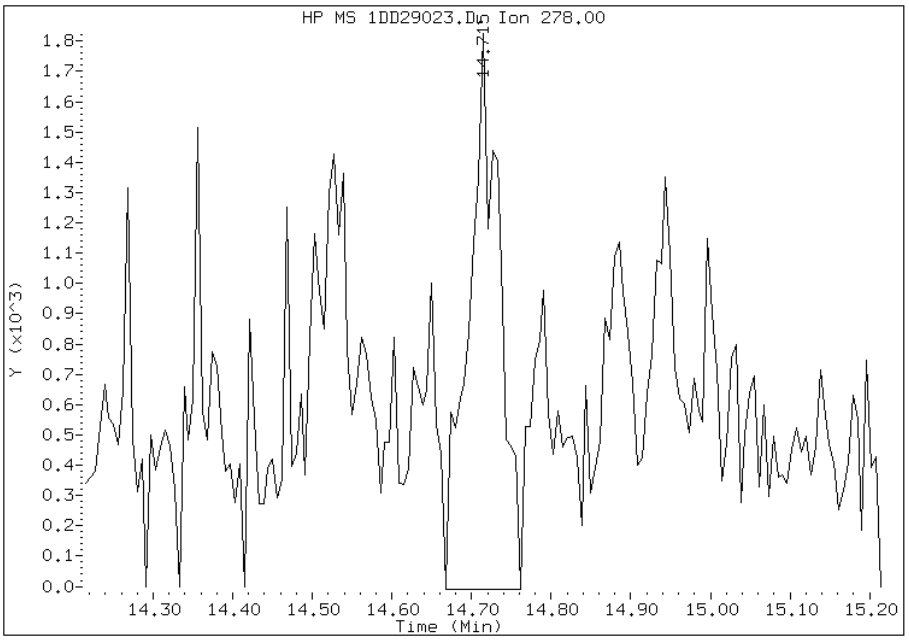
Manual Integration Results

RT: 14.71

Response: 4950

Amount: 0

Conc: 24



Manually Integrated By: cantins
Modification Date: 30-Apr-2013 15:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD29023.D
Inj. Date and Time: 29-APR-2013 18:47
Instrument ID: BSMSD.i
Client ID: FM0323A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/30/2013

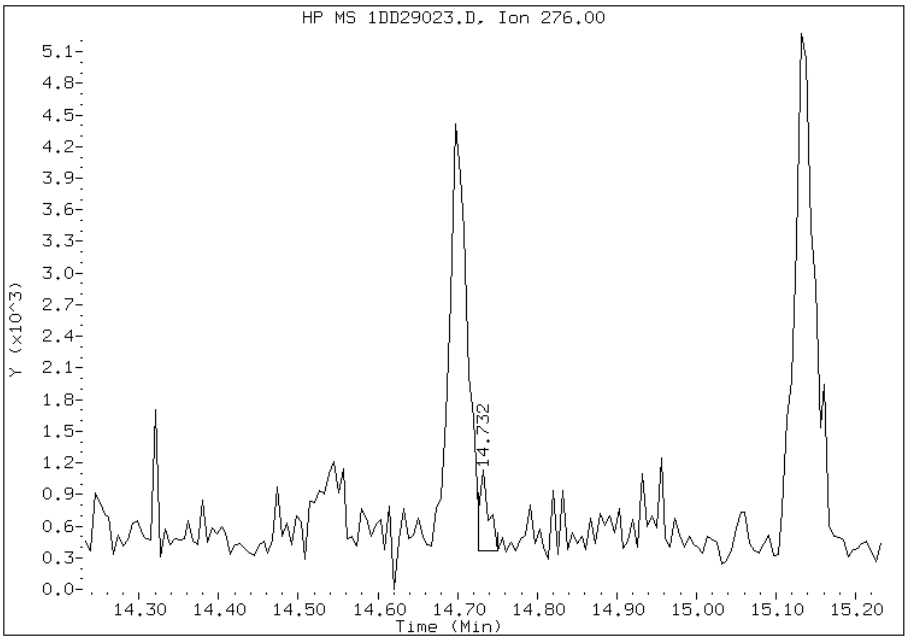
Processing Integration Results

RT: 14.73

Response: 627

Amount: 0

Conc: 3



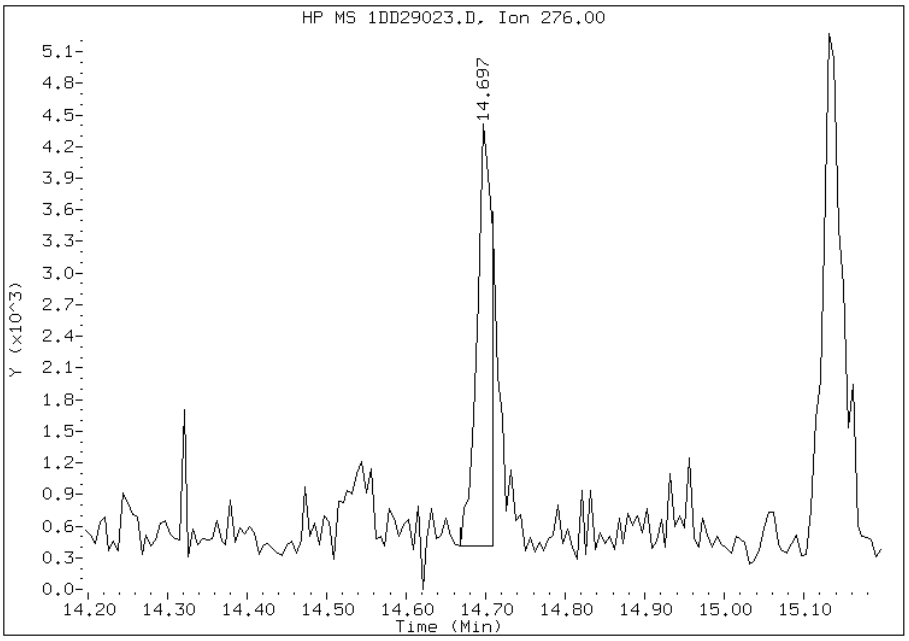
Manual Integration Results

RT: 14.70

Response: 5249

Amount: 0

Conc: 24



Manually Integrated By: cantins
Modification Date: 30-Apr-2013 15:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: FM0323A-CSD | Lab Sample ID: 680-89695-2

Matrix: Solid | Lab File ID: 1DD29024.D

Analysis Method: 8270C LL | Date Collected: 04/22/2013 13:30

Extract. Method: 3546 | Date Extracted: 04/25/2013 12:29

Sample wt/vol: 15.37(g) | Date Analyzed: 04/29/2013 19:10

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

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

% Moisture: 20.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136926 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	9.0	J	49	6.1
120-12-7	Anthracene	18		10	5.1
56-55-3	Benzo[a]anthracene	74		9.8	4.8
50-32-8	Benzo[a]pyrene	61		13	6.4
205-99-2	Benzo[b]fluoranthene	130		15	7.5
191-24-2	Benzo[g,h,i]perylene	43		24	5.4
207-08-9	Benzo[k]fluoranthene	37		9.8	4.4
218-01-9	Chrysene	130		11	5.5
53-70-3	Dibenz(a,h)anthracene	16	J	24	5.0
206-44-0	Fluoranthene	100		24	4.9
86-73-7	Fluorene	24	U	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	28		24	8.7
90-12-0	1-Methylnaphthalene	89		49	5.4
91-57-6	2-Methylnaphthalene	97		49	8.7
91-20-3	Naphthalene	70		49	5.4
85-01-8	Phenanthrene	130		9.8	4.8
129-00-0	Pyrene	86		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\1DD29024.D
Lab Smp Id: 680-89695-A-2-A Client Smp ID: FM0323A-CSD
Inj Date : 29-APR-2013 19:10
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89695-a-2-a
Misc Info : 680-89695-A-2-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\dFASTPAHi.m
Meth Date : 29-Apr-2013 11:13 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.370	Weight Extracted
M	20.000	% 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	6.037	6.037	(1.000)	2449411	40.0000	
* 6 Acenaphthene-d10	164	7.724	7.717	(1.000)	1644449	40.0000	
* 9 Phenanthrene-d10	188	8.987	8.980	(1.000)	2762590	40.0000	
$ 13 o-Terphenyl	230	9.287	9.286	(1.033)	239603	5.75623	470
* 17 Chrysene-d12	240	11.308	11.295	(1.000)	2834739	40.0000	
* 22 Perylene-d12	264	13.141	13.117	(1.000)	2440906	40.0000	
2 Naphthalene	128	6.055	6.054	(1.003)	52364	0.86010	70
3 2-Methylnaphthalene	142	6.766	6.765	(1.121)	46595	1.18560	96
4 1-Methylnaphthalene	142	6.860	6.859	(1.136)	40576	1.09329	89
5 Acenaphthylene	152	7.594	7.588	(0.983)	7663	0.11010	9.0(Q)
8 Fluorene	166	8.188	8.187	(1.060)	2920	0.05739	4.7(Q)
10 Phenanthrene	178	9.005	8.998	(1.002)	121484	1.59649	130
11 Anthracene	178	9.040	9.039	(1.006)	16238	0.21500	17
12 Carbazole	167	9.187	9.180	(1.022)	11119	0.16690	14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	9.986	9.985	(1.111)	98455	1.25733	100
15 Pyrene	202	10.174	10.173	(0.900)	90136	1.05884	86
16 Benzo(a)anthracene	228	11.290	11.278	(0.998)	74489	0.90887	74
18 Chrysene	228	11.325	11.319	(1.002)	126325	1.64384	130
19 Benzo(b)fluoranthene	252	12.583	12.570	(0.958)	94281	1.54624	120
20 Benzo(k)fluoranthene	252	12.612	12.611	(0.960)	29196	0.45451	37
21 Benzo(a)pyrene	252	13.035	13.023	(0.992)	45733	0.74648	61
23 Indeno(1,2,3-cd)pyrene	276	14.721	14.703	(1.120)	22375	0.34251	28(M)
24 Dibenzo(a,h)anthracene	278	14.739	14.732	(1.122)	11684	0.18993	15
25 Benzo(g,h,i)perylene	276	15.156	15.144	(1.153)	33250	0.52861	43(M)

QC Flag Legend

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

Data File: 1DD29024.D

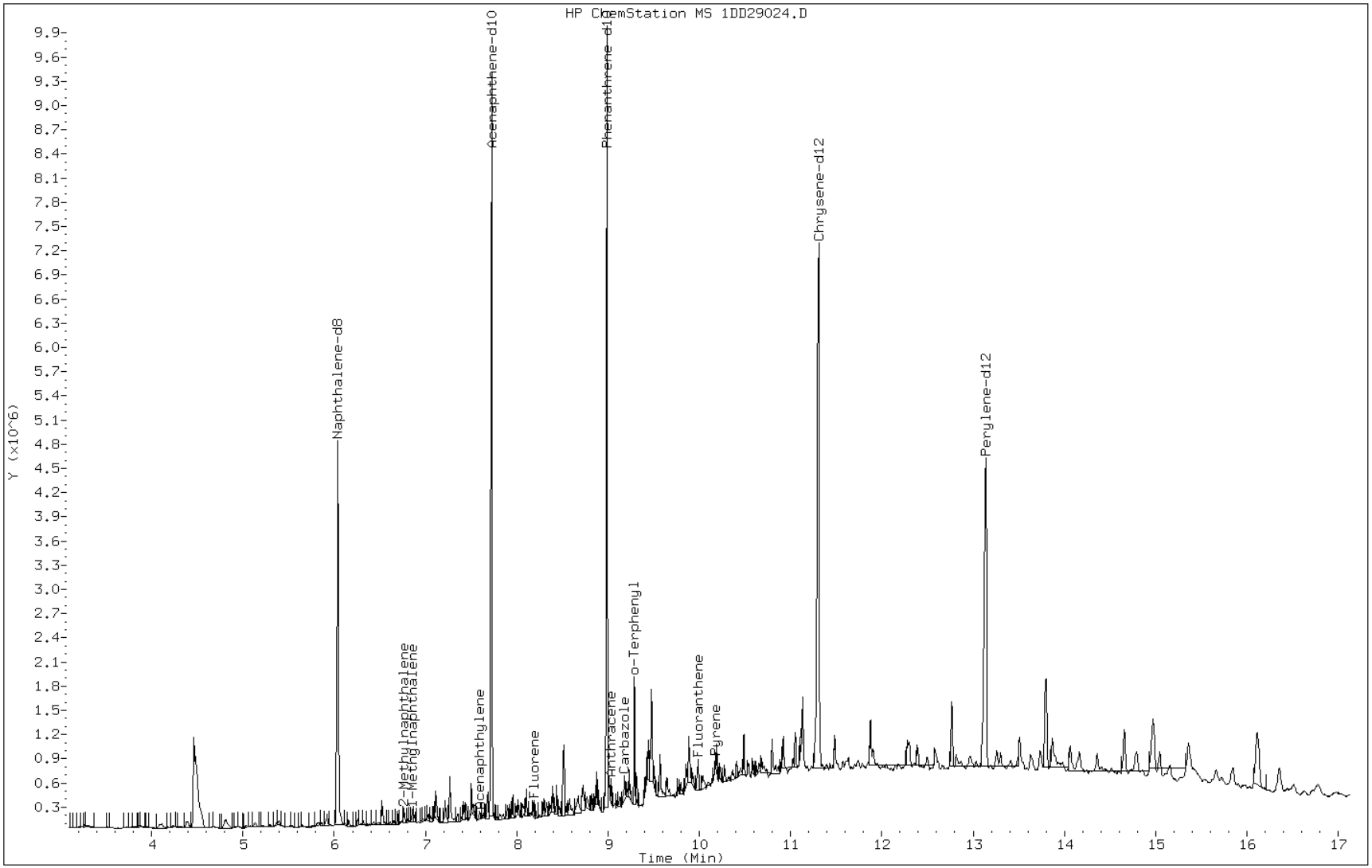
Date: 29-APR-2013 19:10

Client ID: FM0323A-CSD

Instrument: BSMSD.i

Sample Info: 680-89695-a-2-a

Operator: SCC



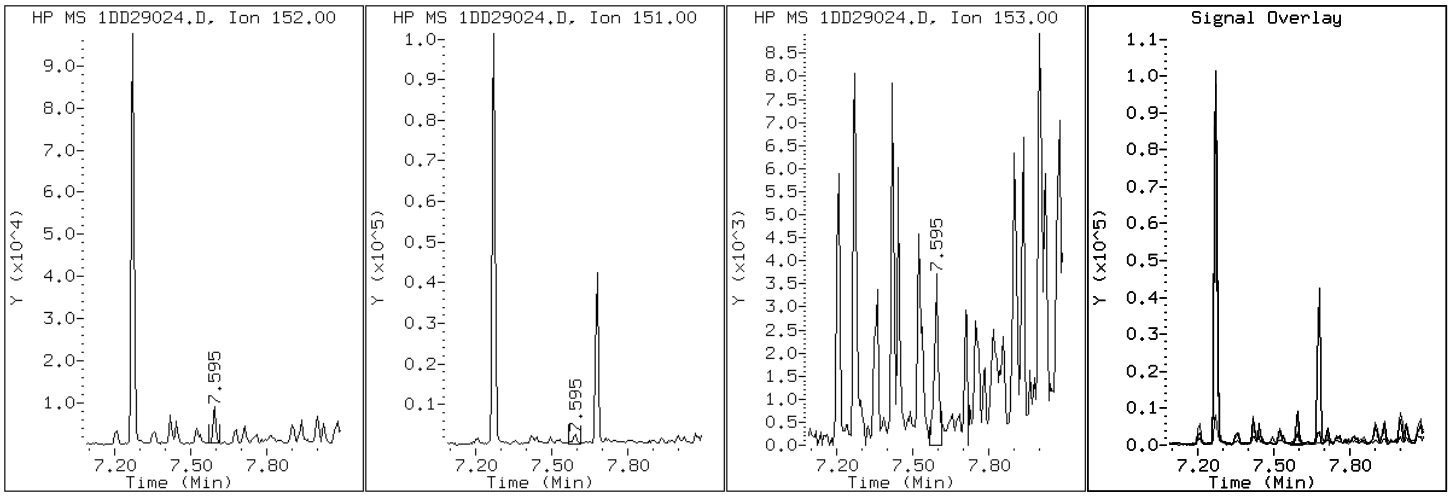
Data File: 1DD29024.D

Date: 29-APR-2013 19:10

Client ID: FM0323A-CSD Instrument: BSMSD.i

Sample Info: 680-89695-a-2-a Operator: SCC

5 Acenaphthylene



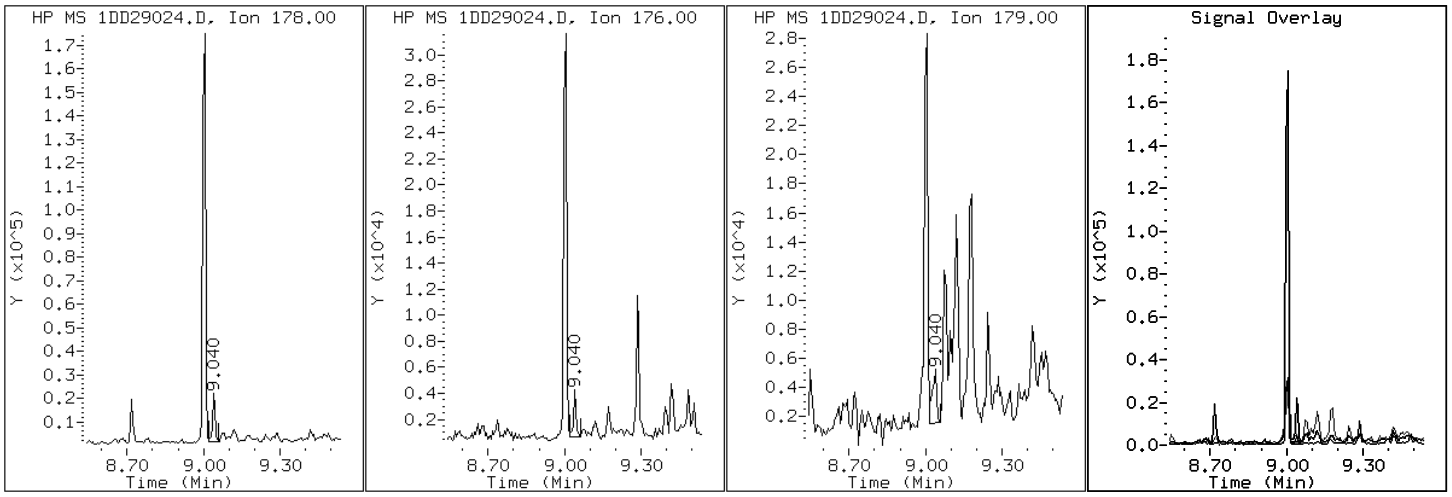
Data File: 1DD29024.D

Date: 29-APR-2013 19:10

Client ID: FM0323A-CSD Instrument: BSMSD.i

Sample Info: 680-89695-a-2-a Operator: SCC

11 Anthracene



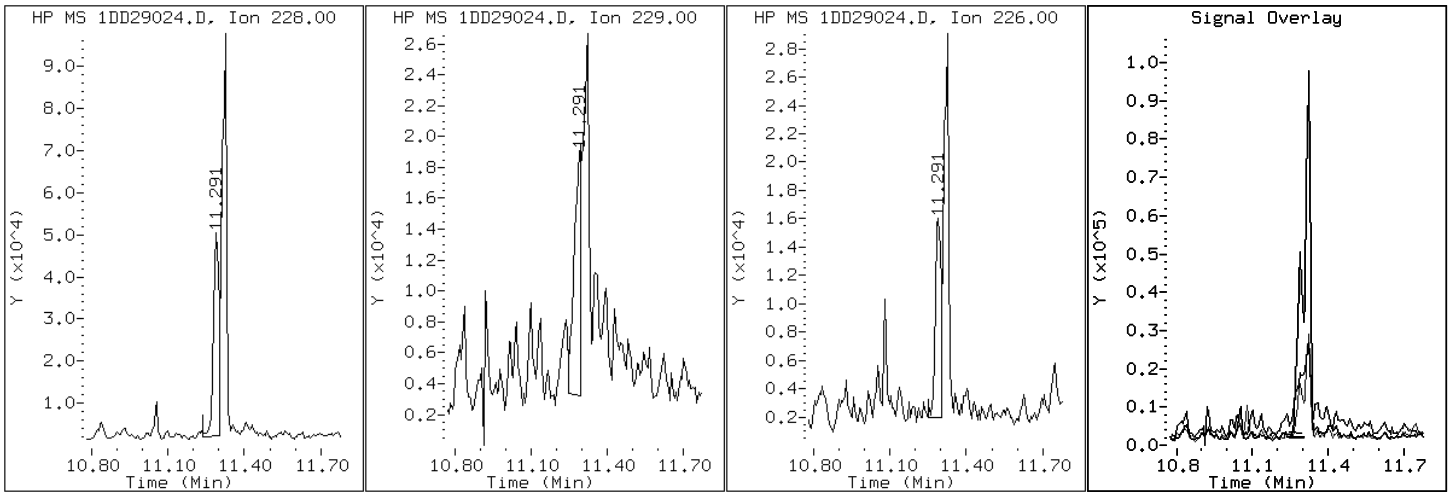
Data File: 1DD29024.D

Date: 29-APR-2013 19:10

Client ID: FM0323A-CSD Instrument: BSMSD.i

Sample Info: 680-89695-a-2-a Operator: SCC

16 Benzo(a)anthracene



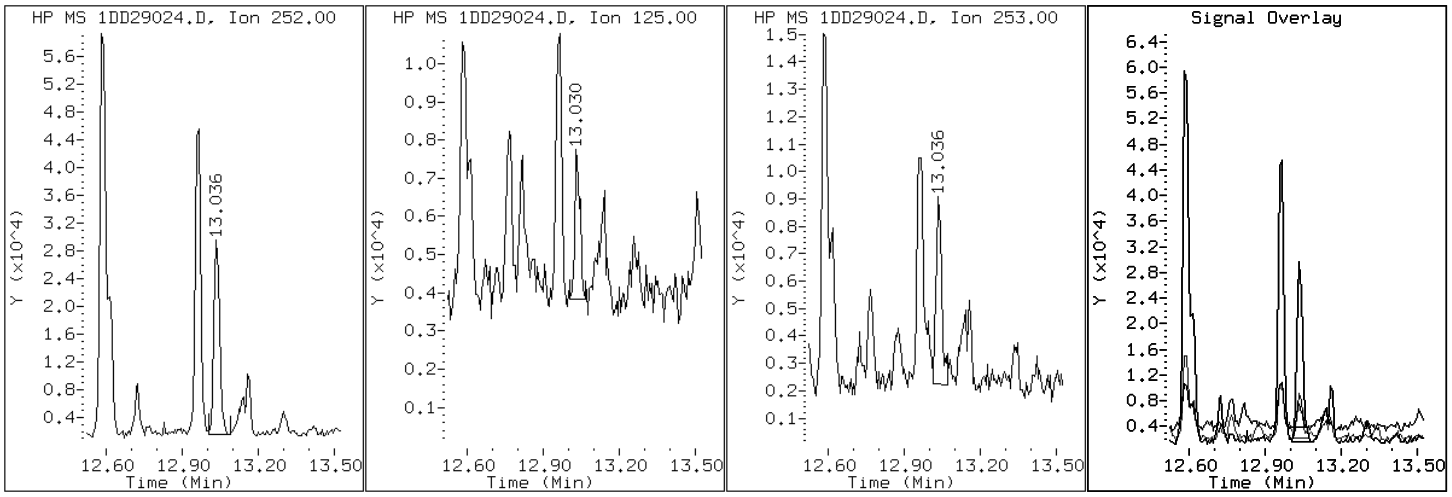
Data File: 1DD29024.D

Date: 29-APR-2013 19:10

Client ID: FM0323A-CSD Instrument: BSMSD.i

Sample Info: 680-89695-a-2-a Operator: SCC

21 Benzo(a)pyrene



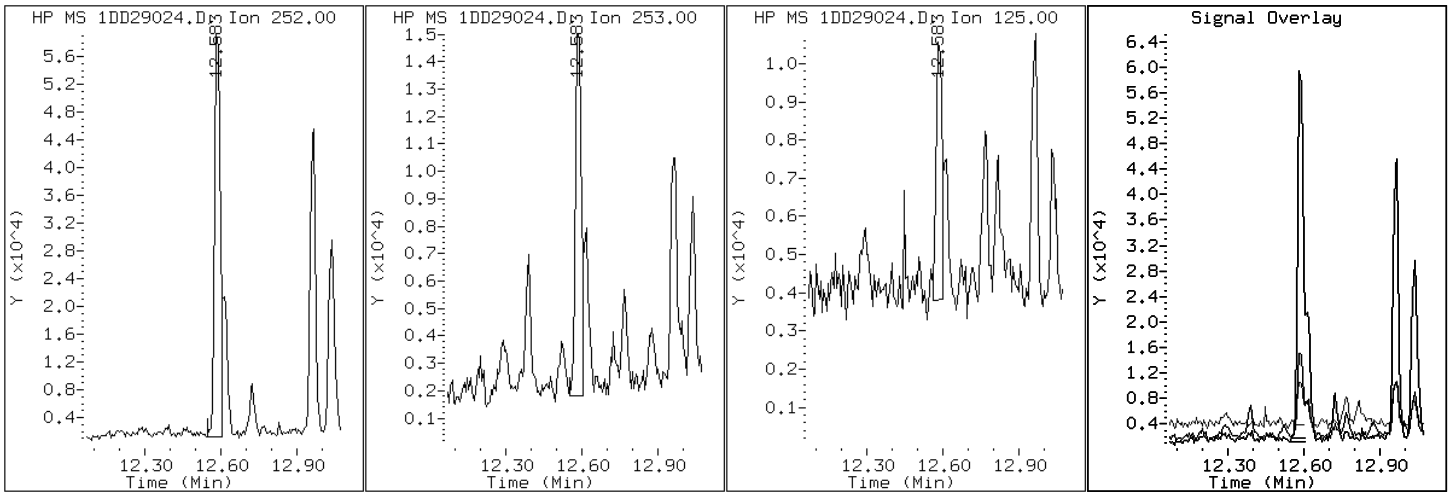
Data File: 1DD29024.D

Date: 29-APR-2013 19:10

Client ID: FM0323A-CSD Instrument: BSMSD.i

Sample Info: 680-89695-a-2-a Operator: SCC

19 Benzo(b)fluoranthene



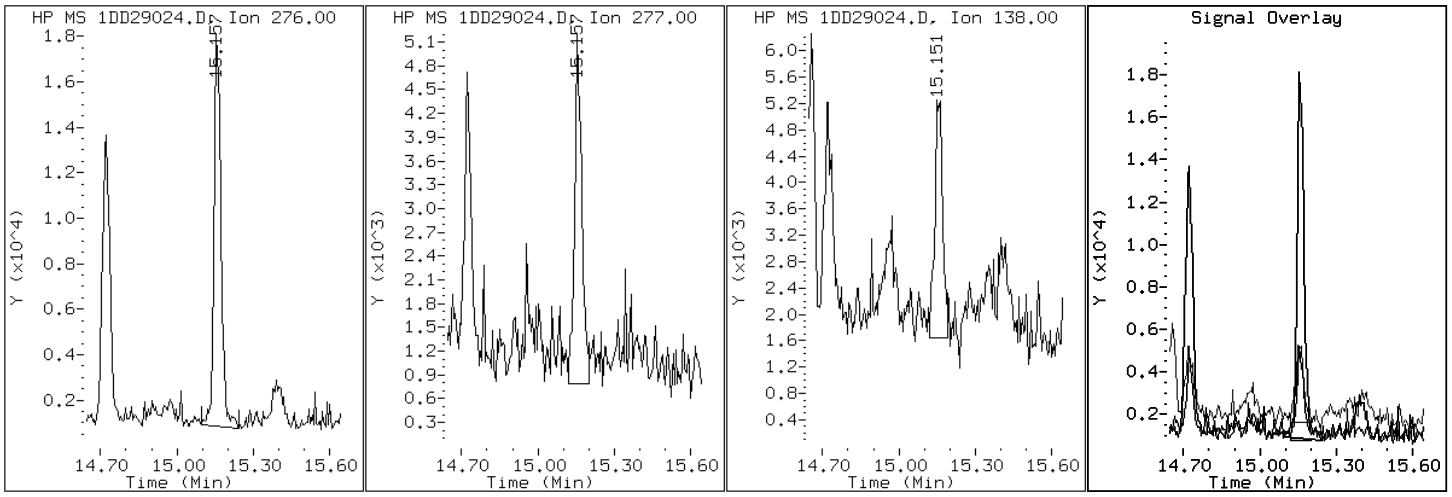
Data File: 1DD29024.D

Date: 29-APR-2013 19:10

Client ID: FM0323A-CSD Instrument: BSMSD.i

Sample Info: 680-89695-a-2-a Operator: SCC

25 Benzo(g,h,i)perylene



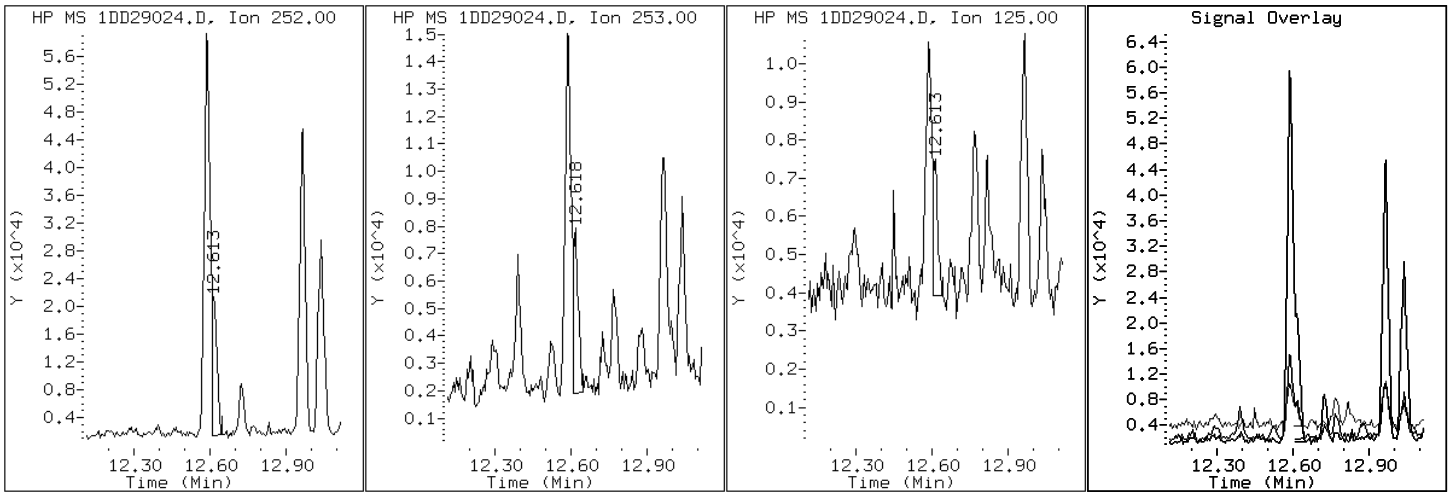
Data File: 1DD29024.D

Date: 29-APR-2013 19:10

Client ID: FM0323A-CSD Instrument: BSMSD.i

Sample Info: 680-89695-a-2-a Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD29024.D

Date: 29-APR-2013 19:10

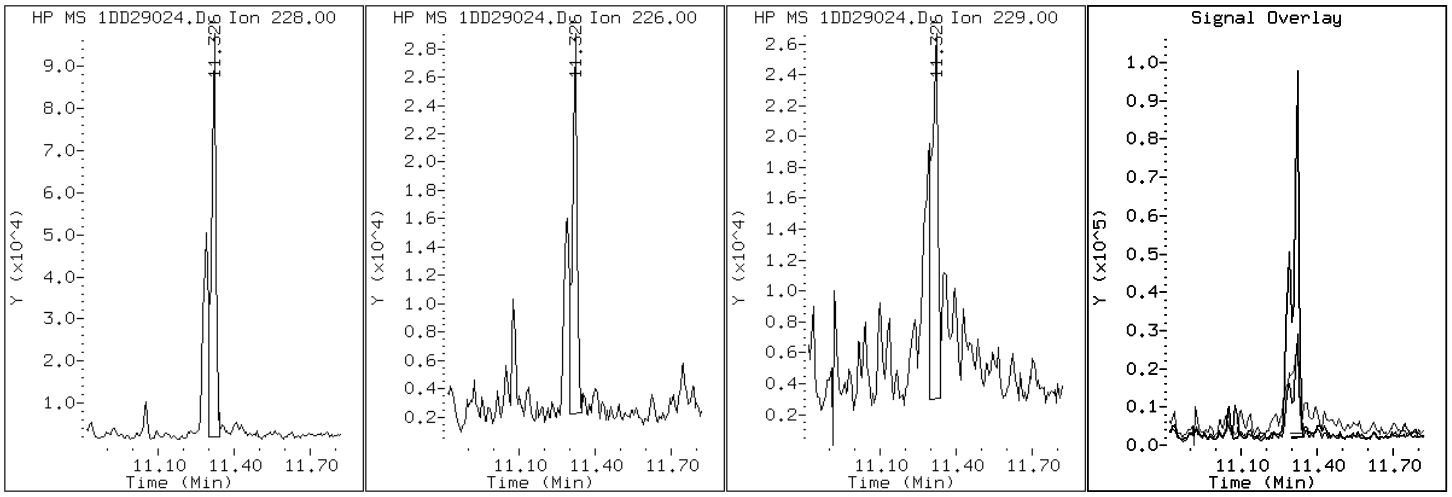
Client ID: FM0323A-CSD

Instrument: BSMSD.i

Sample Info: 680-89695-a-2-a

Operator: SCC

18 Chrysene



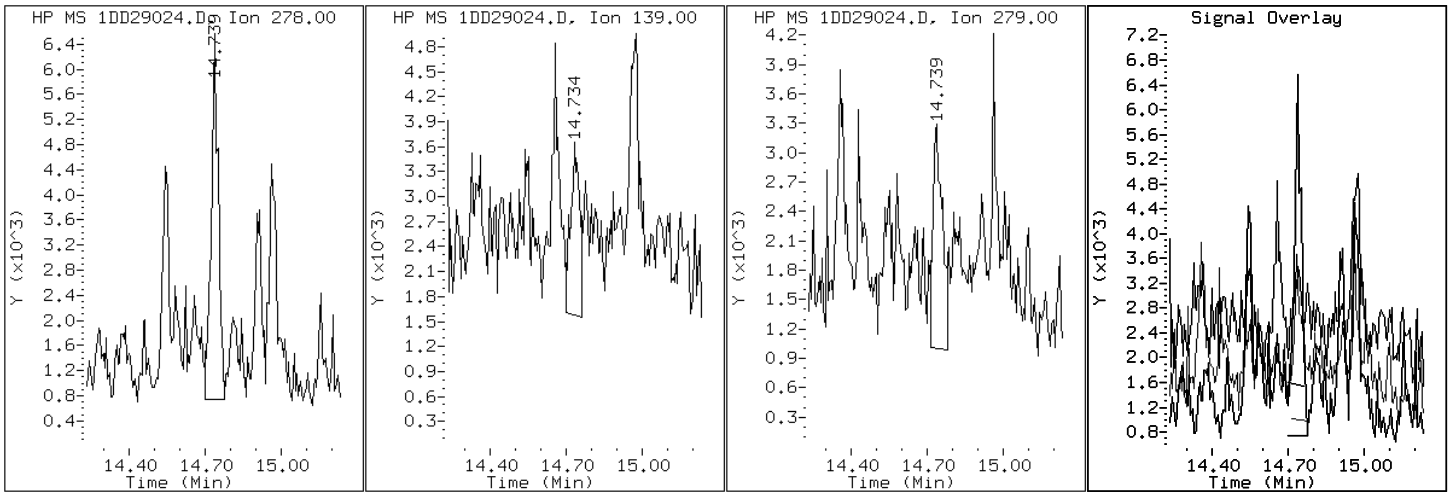
Data File: 1DD29024.D

Date: 29-APR-2013 19:10

Client ID: FM0323A-CSD Instrument: BSMSD.i

Sample Info: 680-89695-a-2-a Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD29024.D

Date: 29-APR-2013 19:10

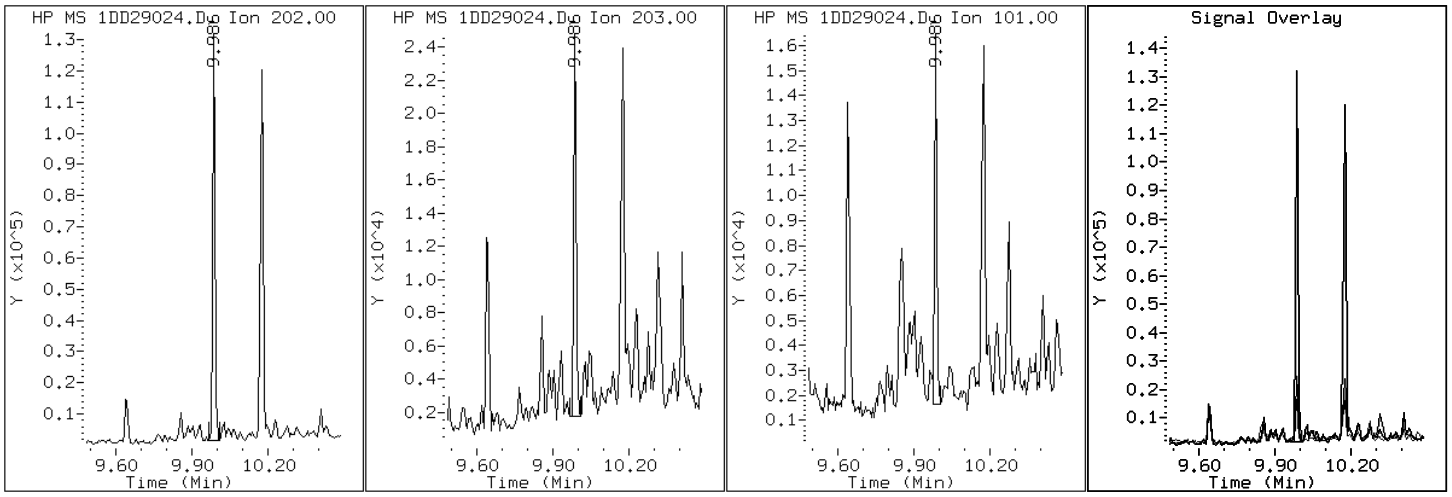
Client ID: FM0323A-CSD

Instrument: BSMSD.i

Sample Info: 680-89695-a-2-a

Operator: SCC

14 Fluoranthene



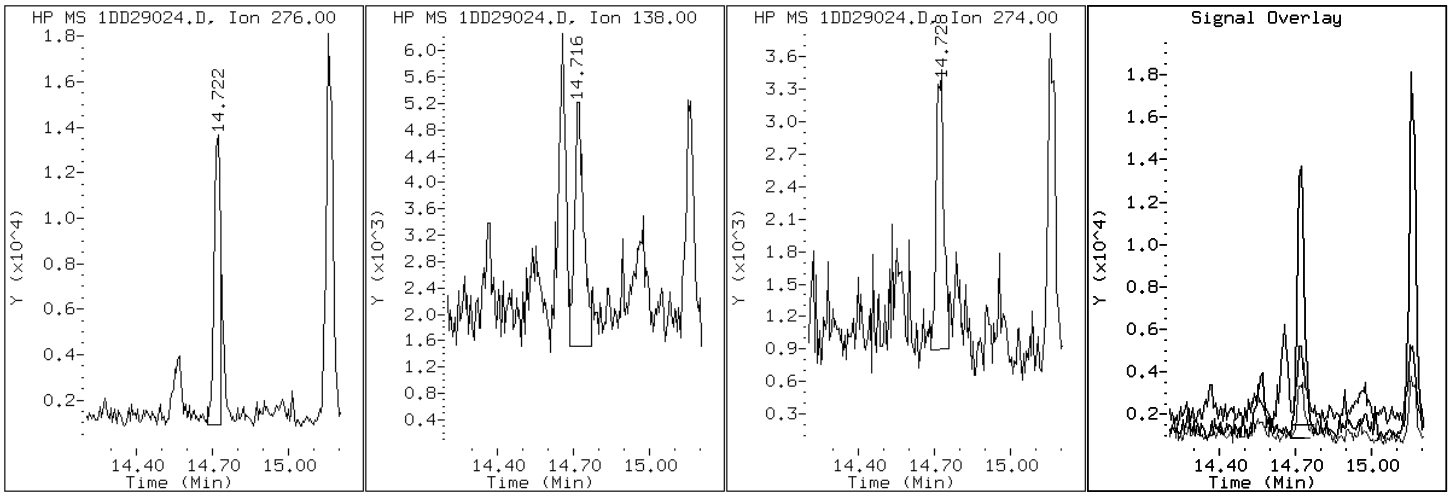
Data File: 1DD29024.D

Date: 29-APR-2013 19:10

Client ID: FM0323A-CSD | Instrument: BSMSD.i

Sample Info: 680-89695-a-2-a | Operator: SCC

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



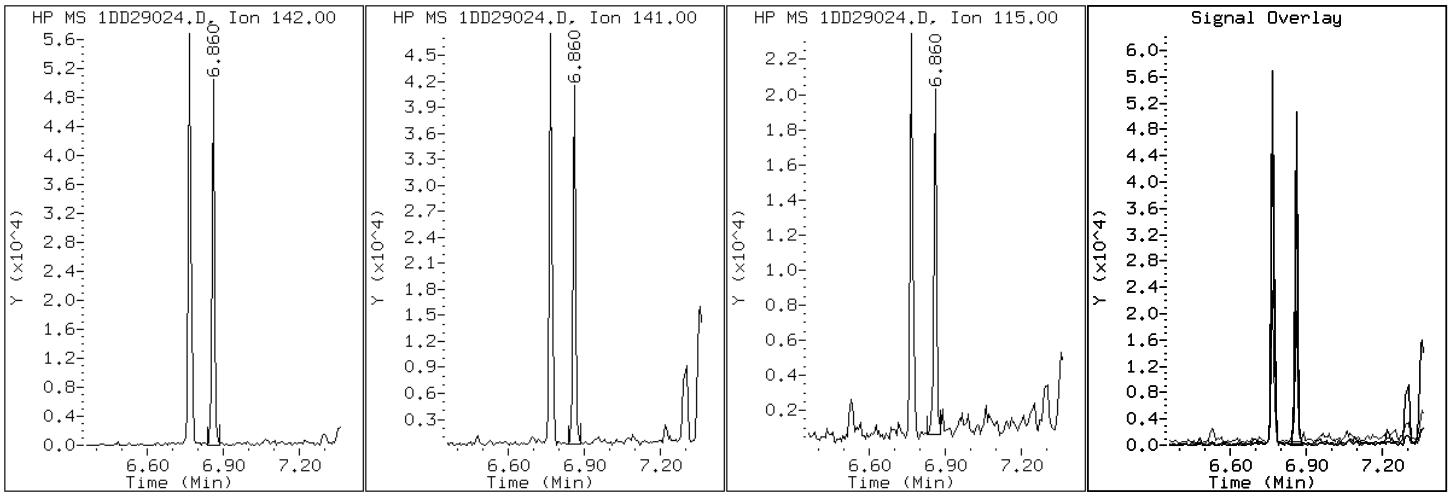
Data File: 1DD29024.D

Date: 29-APR-2013 19:10

Client ID: FM0323A-CSD Instrument: BSMSD.i

Sample Info: 680-89695-a-2-a Operator: SCC

4 1-Methylnaphthalene



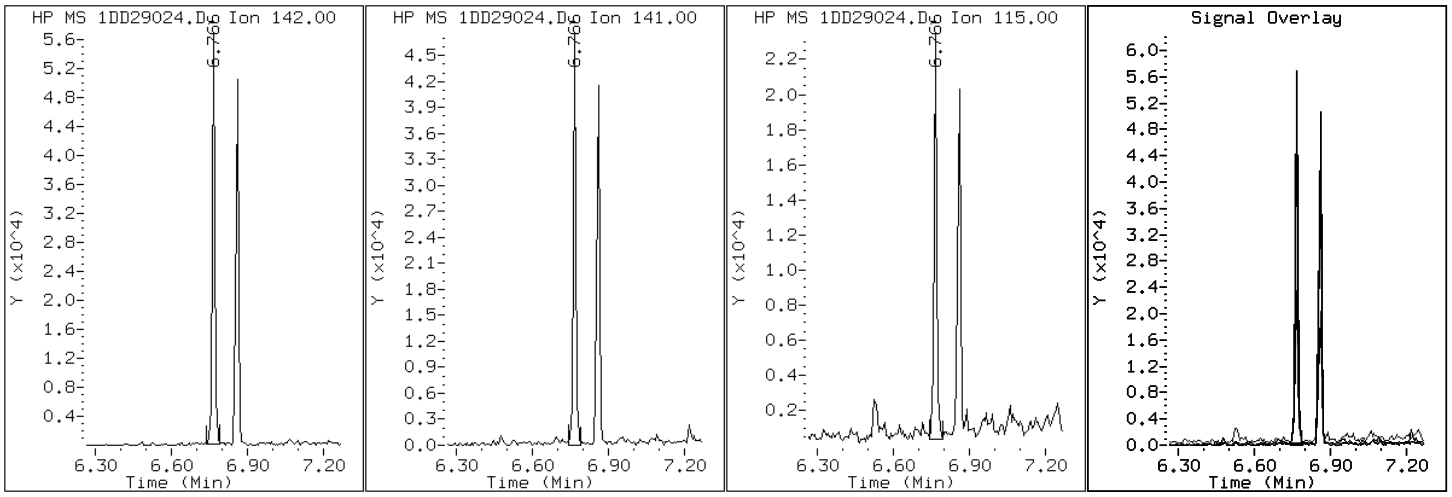
Data File: 1DD29024.D

Date: 29-APR-2013 19:10

Client ID: FM0323A-CSD Instrument: BSMSD.i

Sample Info: 680-89695-a-2-a Operator: SCC

3 2-Methylnaphthalene



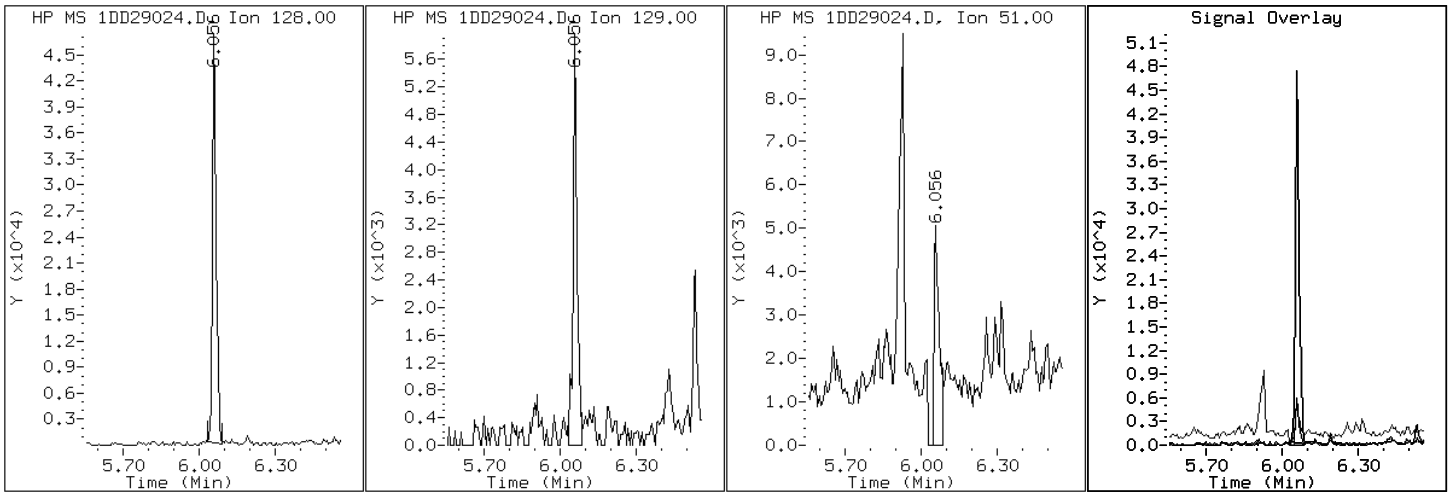
Data File: 1DD29024.D

Date: 29-APR-2013 19:10

Client ID: FM0323A-CSD Instrument: BSMSD.i

Sample Info: 680-89695-a-2-a Operator: SCC

2 Naphthalene



Data File: 1DD29024.D

Date: 29-APR-2013 19:10

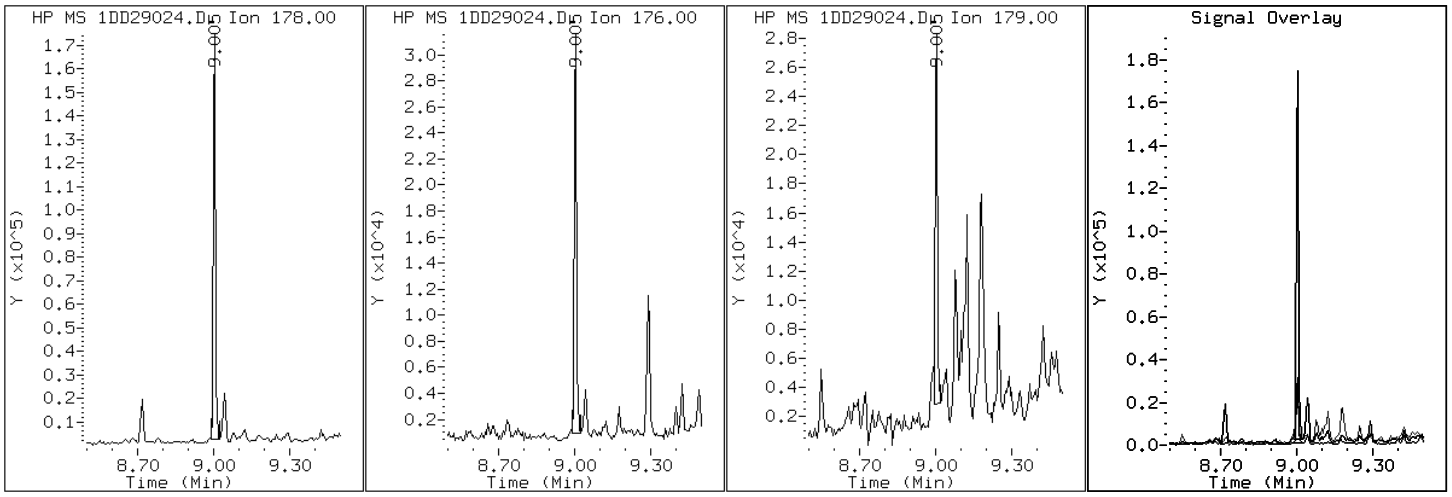
Client ID: FM0323A-CSD

Instrument: BSMSD.i

Sample Info: 680-89695-a-2-a

Operator: SCC

10 Phenanthrene



Data File: 1DD29024.D

Date: 29-APR-2013 19:10

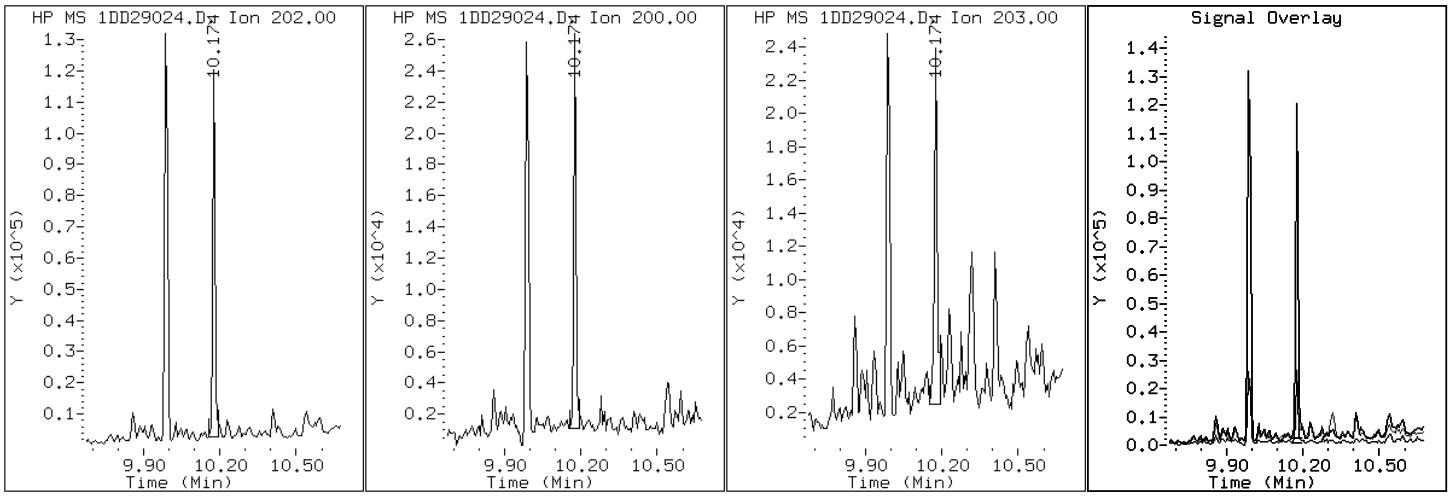
Client ID: FM0323A-CSD

Instrument: BSMSD.i

Sample Info: 680-89695-a-2-a

Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD29024.D
Inj. Date and Time: 29-APR-2013 19:10
Instrument ID: BSMSD.i
Client ID: FM0323A-CSD
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/30/2013

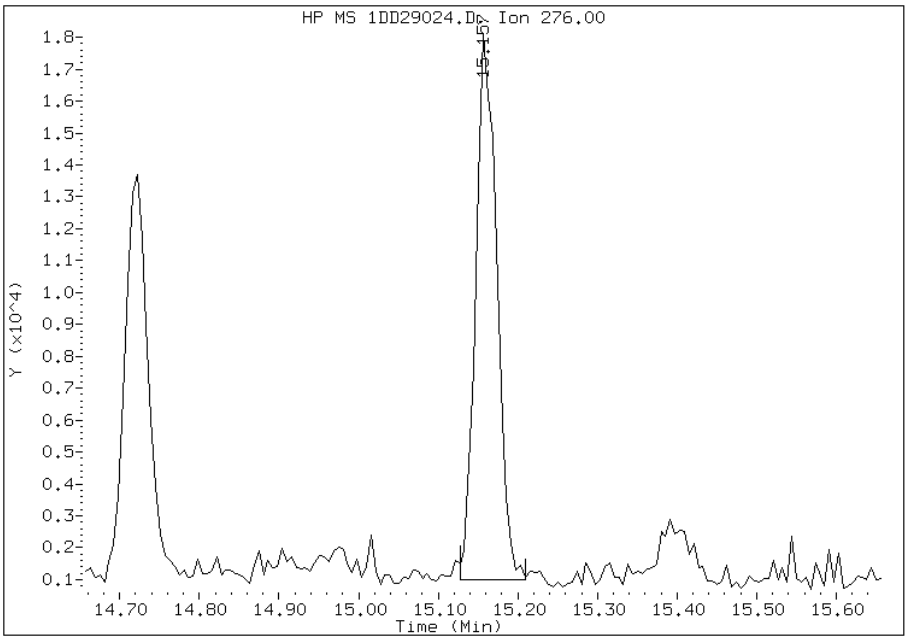
Processing Integration Results

RT: 15.16

Response: 31374

Amount: 0

Conc: 41



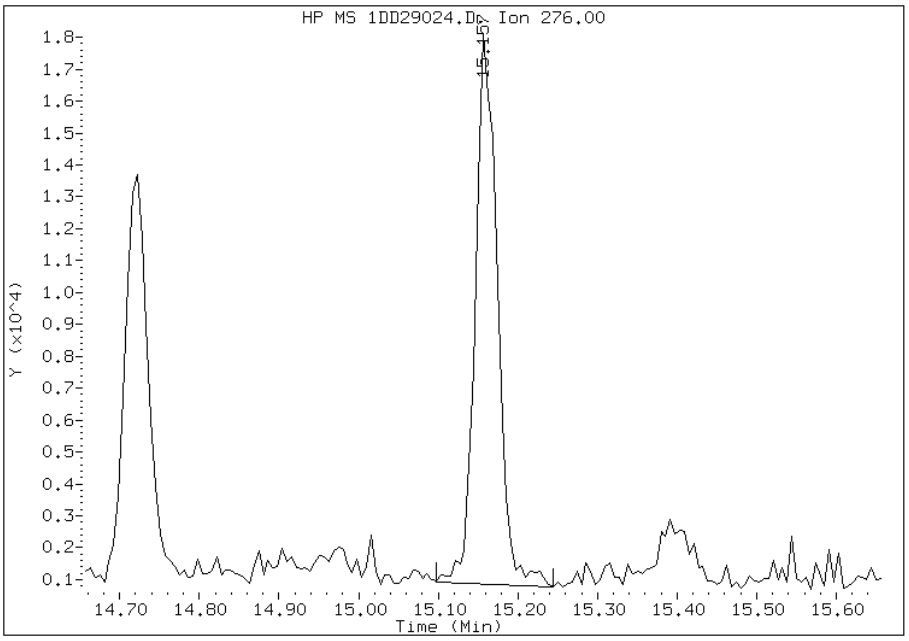
Manual Integration Results

RT: 15.16

Response: 33250

Amount: 1

Conc: 43



Manually Integrated By: cantins
Modification Date: 30-Apr-2013 15:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD29024.D
Inj. Date and Time: 29-APR-2013 19:10
Instrument ID: BSMSD.i
Client ID: FM0323A-CSD
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/30/2013

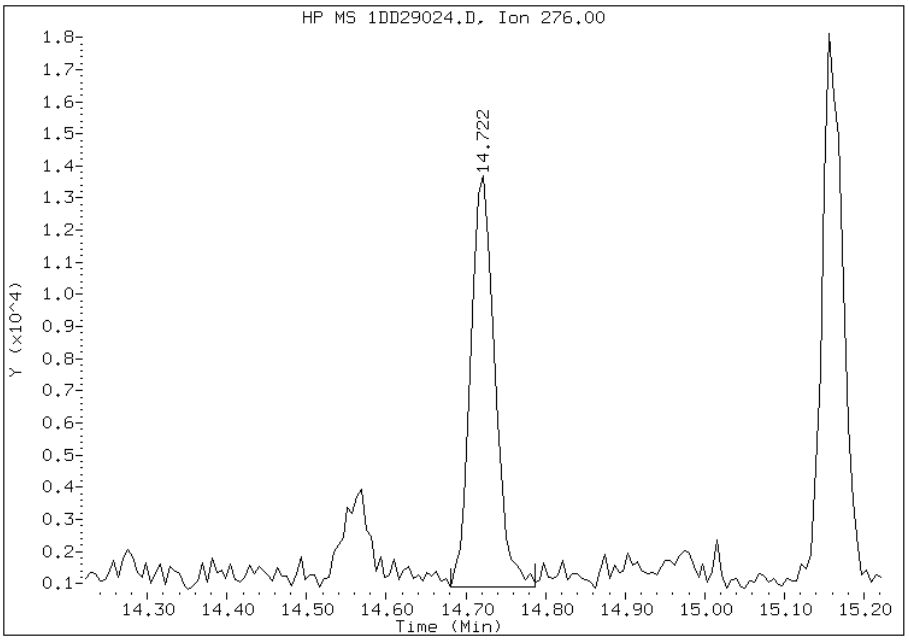
Processing Integration Results

RT: 14.72

Response: 26776

Amount: 0

Conc: 33



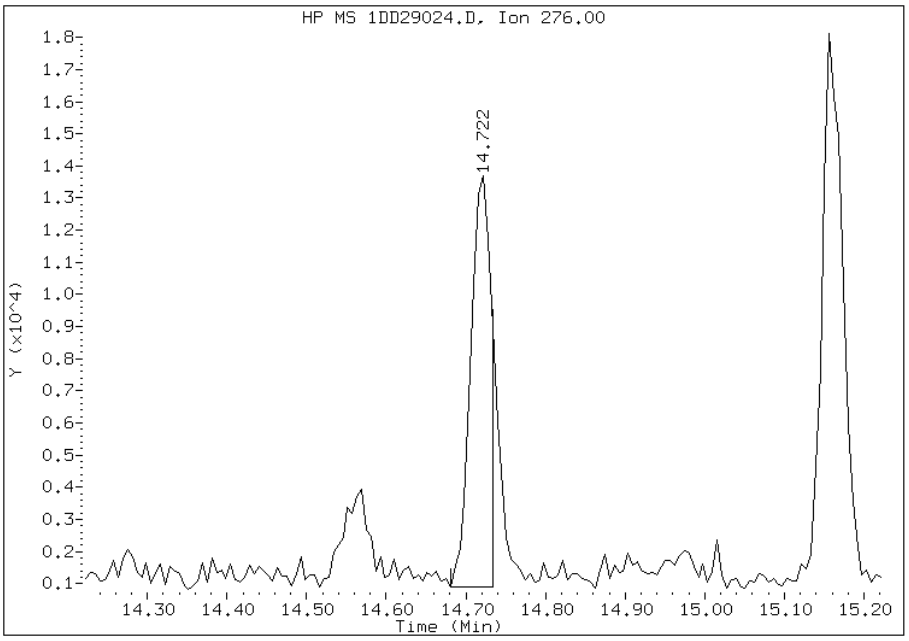
Manual Integration Results

RT: 14.72

Response: 22375

Amount: 0

Conc: 28



Manually Integrated By: cantins
Modification Date: 30-Apr-2013 15:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: FM0323B-CS | Lab Sample ID: 680-89695-3

Matrix: Solid | Lab File ID: 1DD29025.D

Analysis Method: 8270C LL | Date Collected: 04/22/2013 13:40

Extract. Method: 3546 | Date Extracted: 04/25/2013 12:29

Sample wt/vol: 15.05(g) | Date Analyzed: 04/29/2013 19:32

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

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

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

Analysis Batch No.: 136926 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	200	U	200	25
120-12-7	Anthracene	41	U	41	21
56-55-3	Benzo[a]anthracene	86		39	19
50-32-8	Benzo[a]pyrene	79		51	25
205-99-2	Benzo[b]fluoranthene	180		60	30
191-24-2	Benzo[g,h,i]perylene	69	J	98	22
207-08-9	Benzo[k]fluoranthene	37	J	39	18
218-01-9	Chrysene	140		44	22
53-70-3	Dibenz(a,h)anthracene	98	U	98	20
206-44-0	Fluoranthene	87	J	98	20
86-73-7	Fluorene	98	U	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	51	J	98	35
90-12-0	1-Methylnaphthalene	49	J	200	22
91-57-6	2-Methylnaphthalene	55	J	200	35
91-20-3	Naphthalene	46	J	200	22
85-01-8	Phenanthrene	95		39	19
129-00-0	Pyrene	74	J	98	18

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\1DD29025.D
Lab Smp Id: 680-89695-A-3-A Client Smp ID: FM0323B-CS
Inj Date : 29-APR-2013 19:32
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89695-a-3-a
Misc Info : 680-89695-A-3-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\dFASTPAHi.m
Meth Date : 29-Apr-2013 11:13 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.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	15.050	Weight Extracted
M	19.000	% 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	6.043	6.037	(1.000)	2570918	40.0000	
* 6 Acenaphthene-d10	164	7.723	7.717	(1.000)	1673101	40.0000	
* 9 Phenanthrene-d10	188	8.986	8.980	(1.000)	2797007	40.0000	
$ 13 o-Terphenyl	230	9.286	9.286	(1.033)	48053	1.14022	370
* 17 Chrysene-d12	240	11.301	11.295	(1.000)	2926823	40.0000	
* 22 Perylene-d12	264	13.134	13.117	(1.000)	2517288	40.0000	
2 Naphthalene	128	6.060	6.054	(1.003)	8938	0.13987	46
3 2-Methylnaphthalene	142	6.765	6.765	(1.120)	6907	0.16744	55
4 1-Methylnaphthalene	142	6.859	6.859	(1.135)	5796	0.14879	49
5 Acenaphthylene	152	7.594	7.588	(0.983)	2878	0.04064	13
10 Phenanthrene	178	9.004	8.998	(1.002)	22464	0.29158	96
11 Anthracene	178	9.045	9.039	(1.007)	3751	0.04905	16
12 Carbazole	167	9.186	9.180	(1.022)	3893	0.05772	19
14 Fluoranthene	202	9.985	9.985	(1.111)	21104	0.26619	87

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
15 Pyrene	202	10.173	10.173	(0.900)	19847	0.22581	74
16 Benzo(a)anthracene	228	11.289	11.278	(0.999)	22168	0.26197	86
18 Chrysene	228	11.319	11.319	(1.002)	34177	0.43075	140
19 Benzo(b)fluoranthene	252	12.576	12.570	(0.958)	35194	0.55968	180(M)
20 Benzo(k)fluoranthene	252	12.611	12.611	(0.960)	7407	0.11181	37(QMH)
21 Benzo(a)pyrene	252	13.029	13.023	(0.992)	15250	0.24137	79
23 Indeno(1,2,3-cd)pyrene	276	14.709	14.703	(1.120)	10491	0.15572	51(M)
24 Dibenzo(a,h)anthracene	278	14.732	14.732	(1.122)	3689	0.05815	19(MH)
25 Benzo(g,h,i)perylene	276	15.144	15.144	(1.153)	13617	0.20992	69

QC Flag Legend

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

Data File: 1DD29025.D

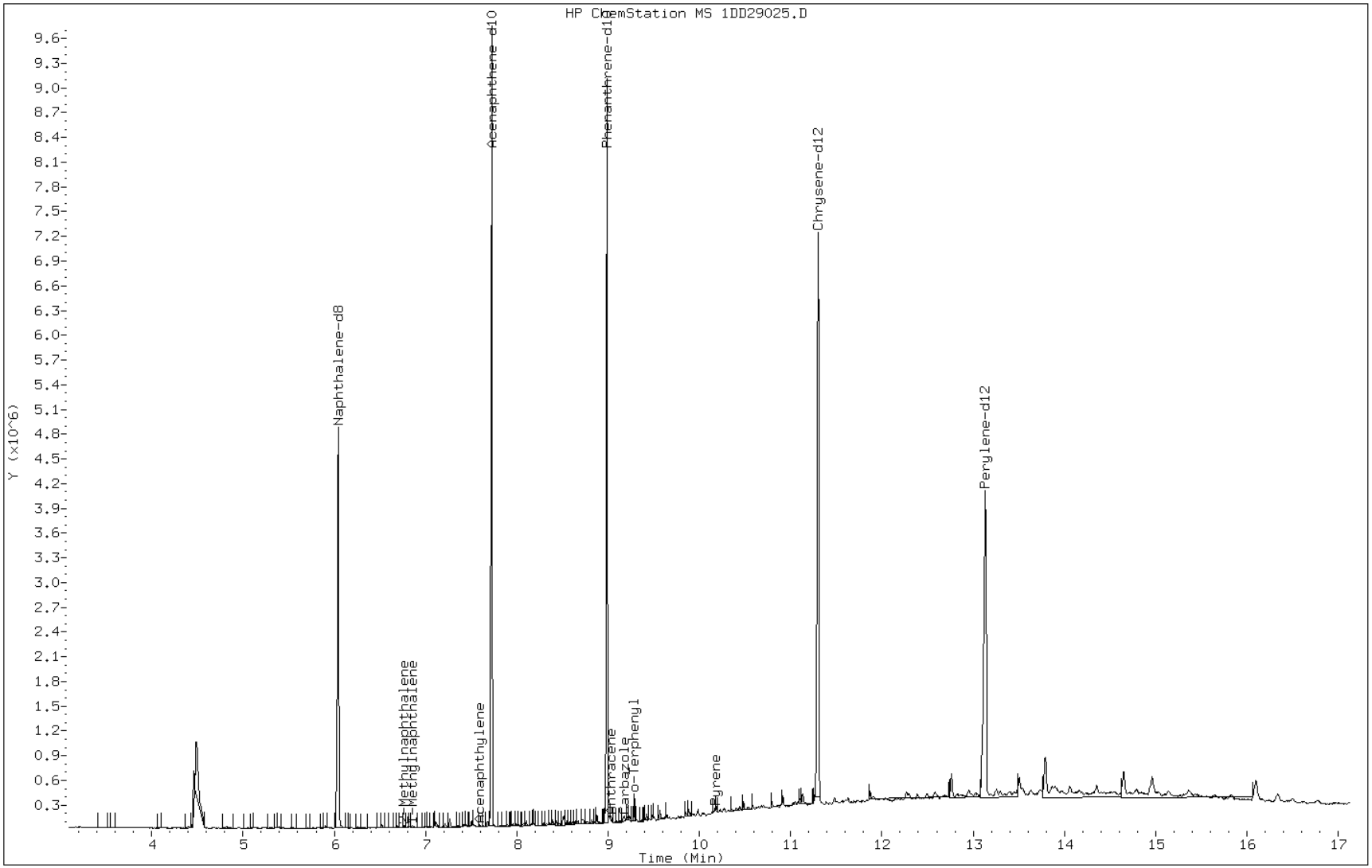
Date: 29-APR-2013 19:32

Client ID: FM0323B-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-3-a

Operator: SCC



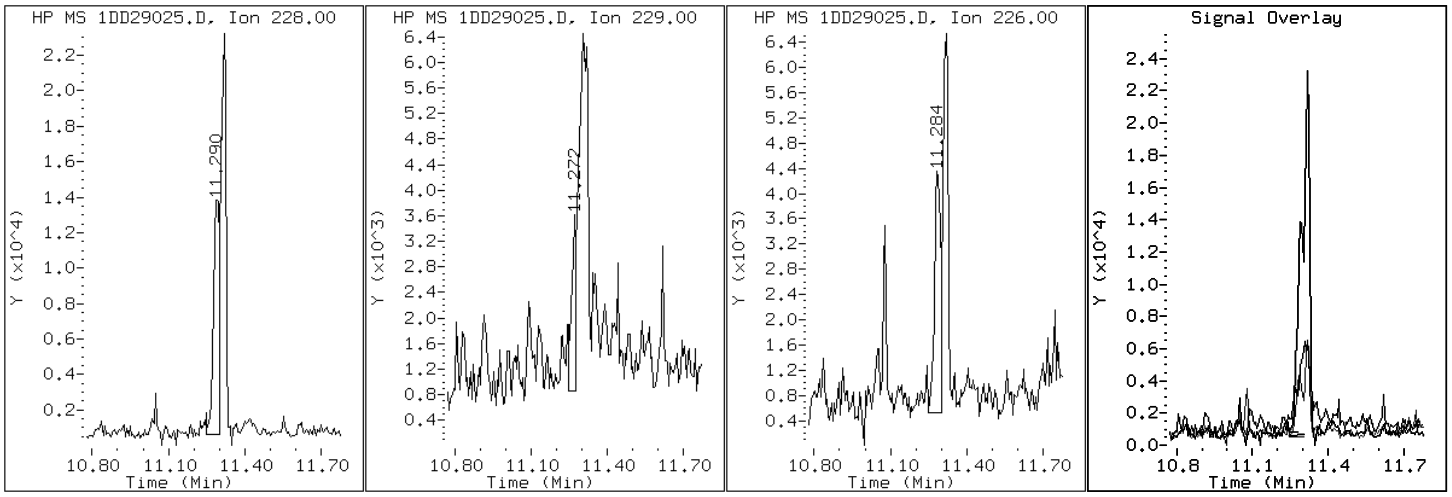
Data File: 1DD29025.D

Date: 29-APR-2013 19:32

Client ID: FM0323B-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-3-a Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD29025.D

Date: 29-APR-2013 19:32

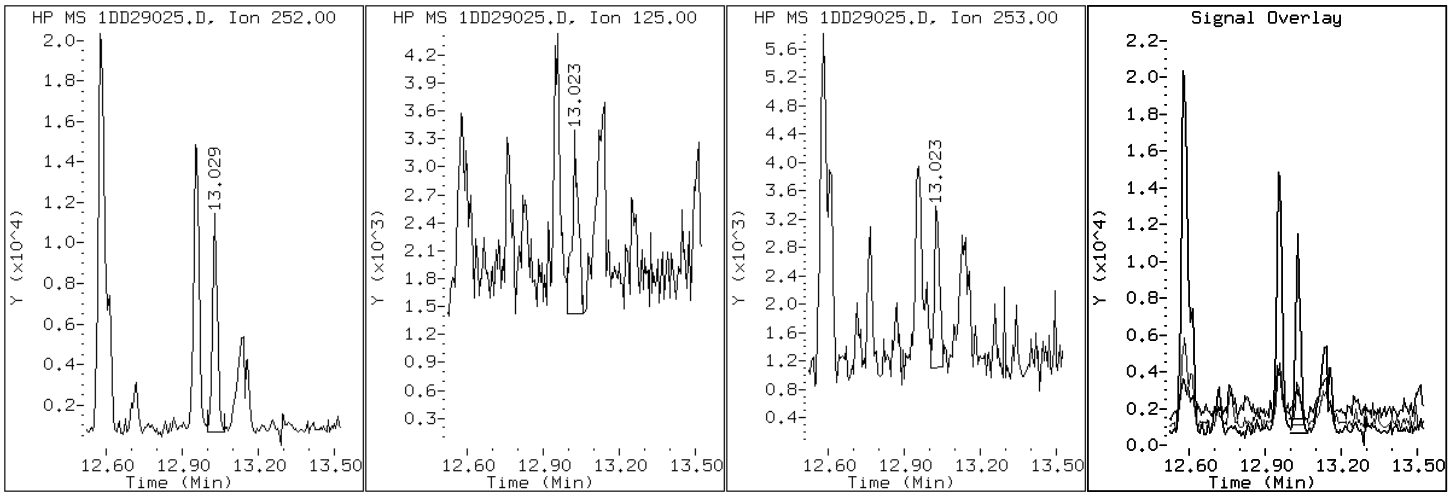
Client ID: FM0323B-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-3-a

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD29025.D

Date: 29-APR-2013 19:32

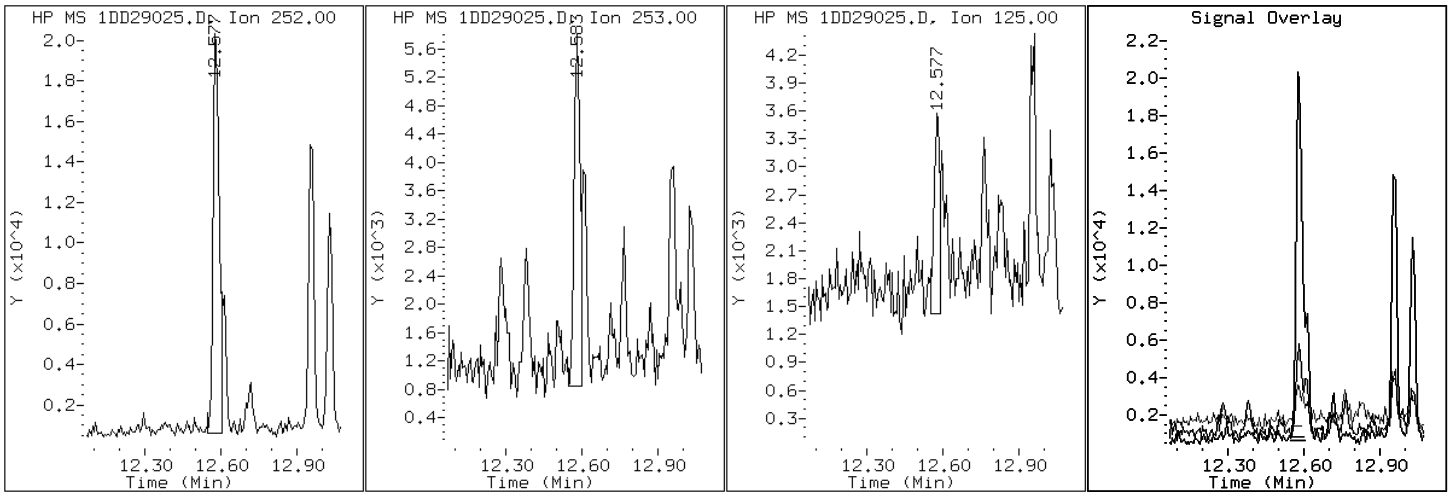
Client ID: FM0323B-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-3-a

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD29025.D

Date: 29-APR-2013 19:32

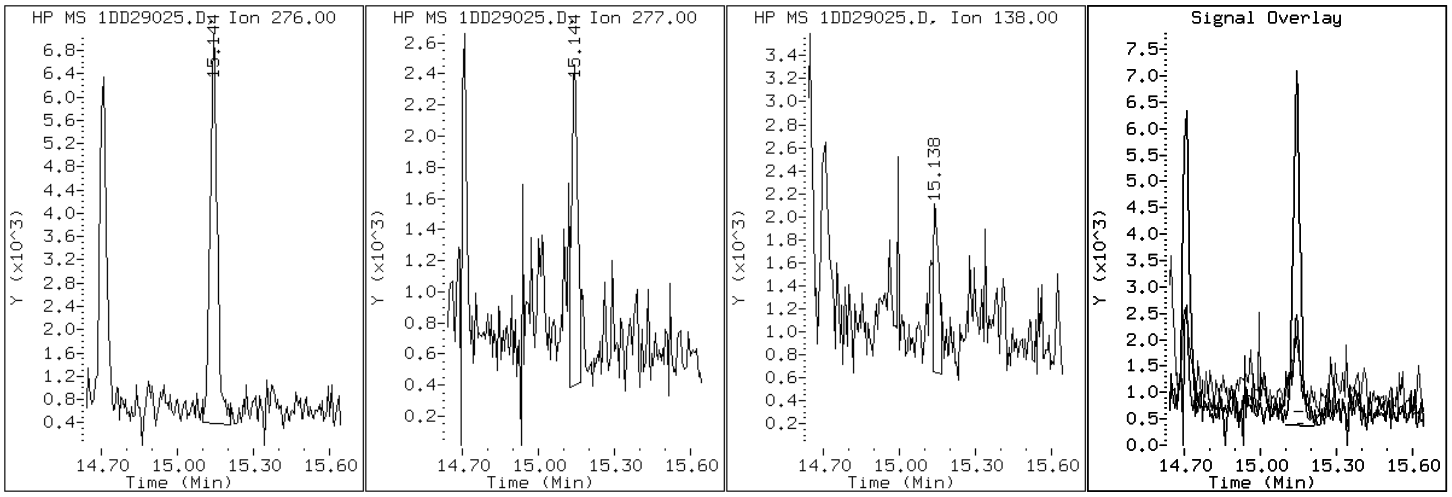
Client ID: FM0323B-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-3-a

Operator: SCC

25 Benzo(g,h,i)perylene



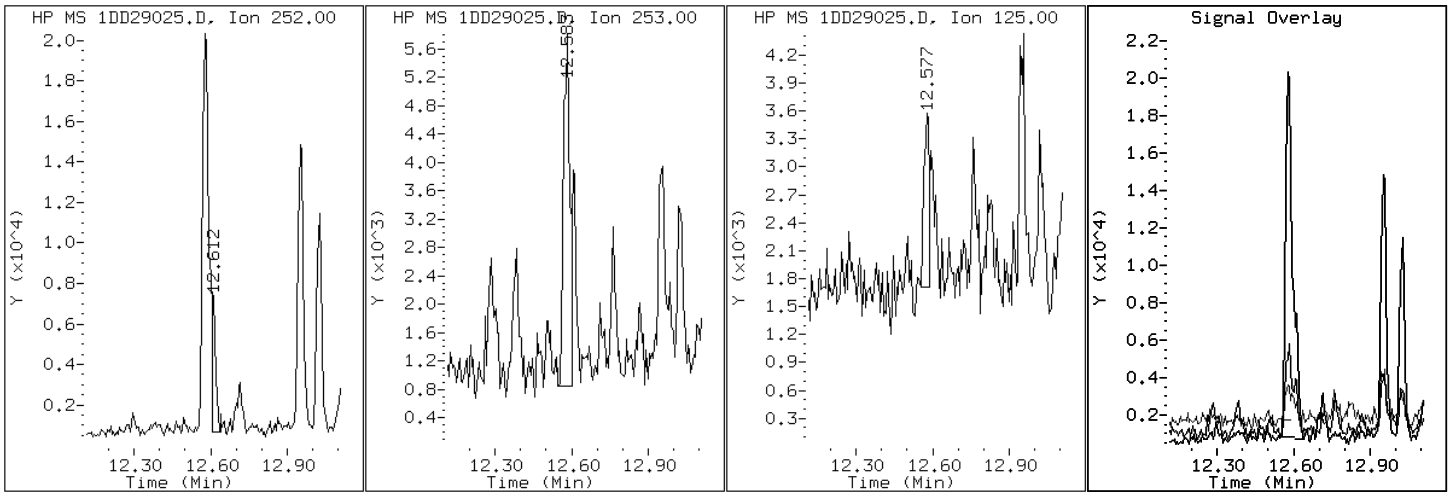
Data File: 1DD29025.D

Date: 29-APR-2013 19:32

Client ID: FM0323B-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-3-a Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD29025.D

Date: 29-APR-2013 19:32

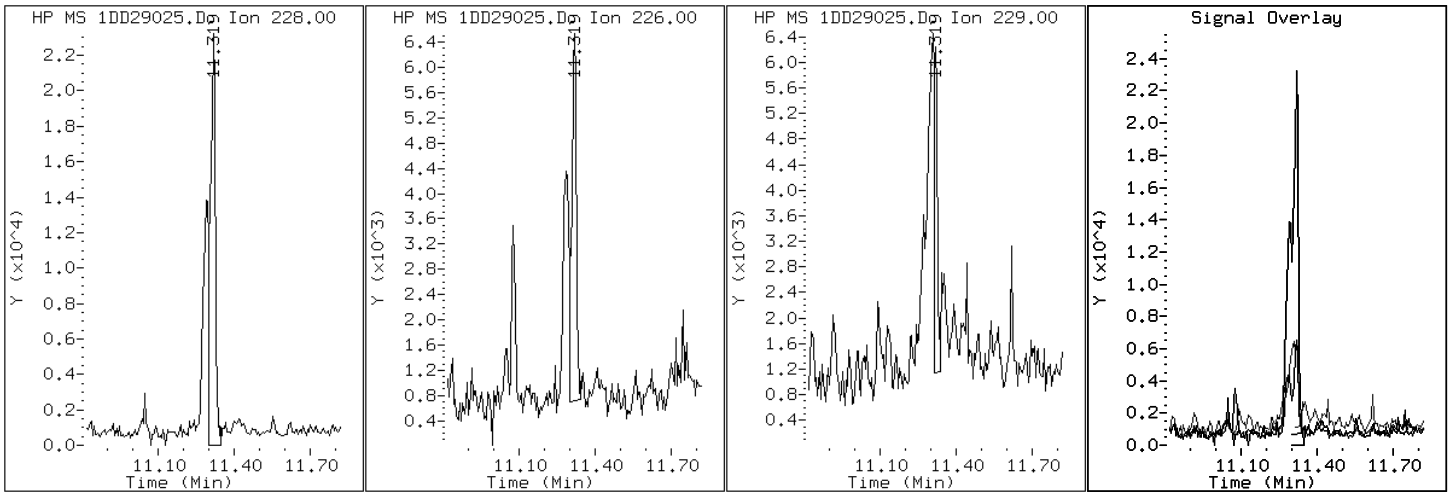
Client ID: FM0323B-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-3-a

Operator: SCC

18 Chrysene



Data File: 1DD29025.D

Date: 29-APR-2013 19:32

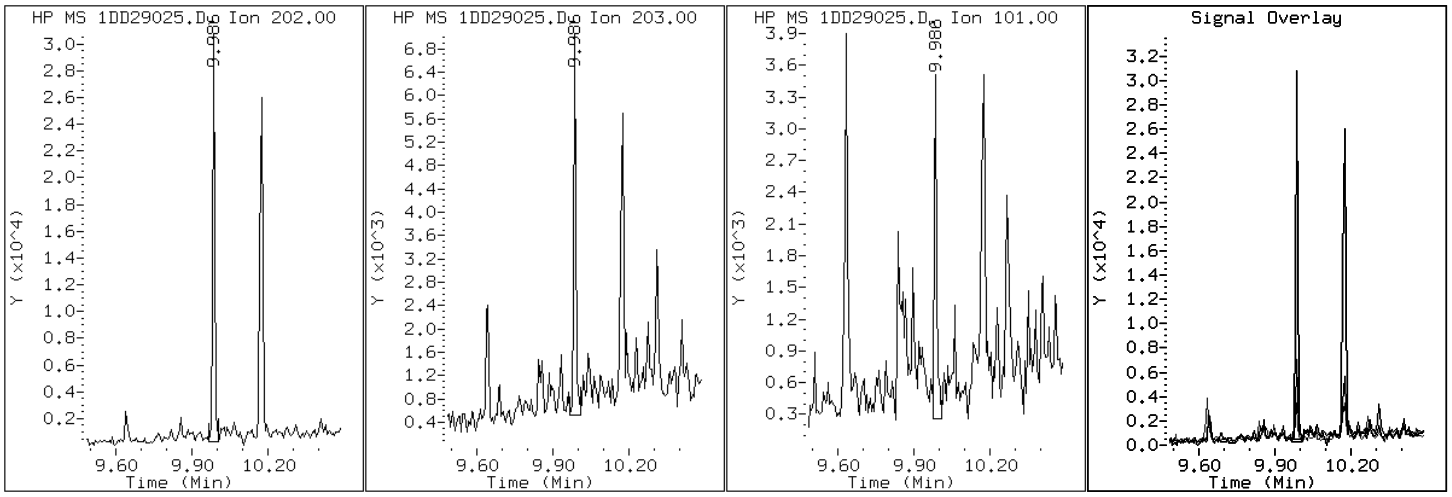
Client ID: FM0323B-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-3-a

Operator: SCC

14 Fluoranthene



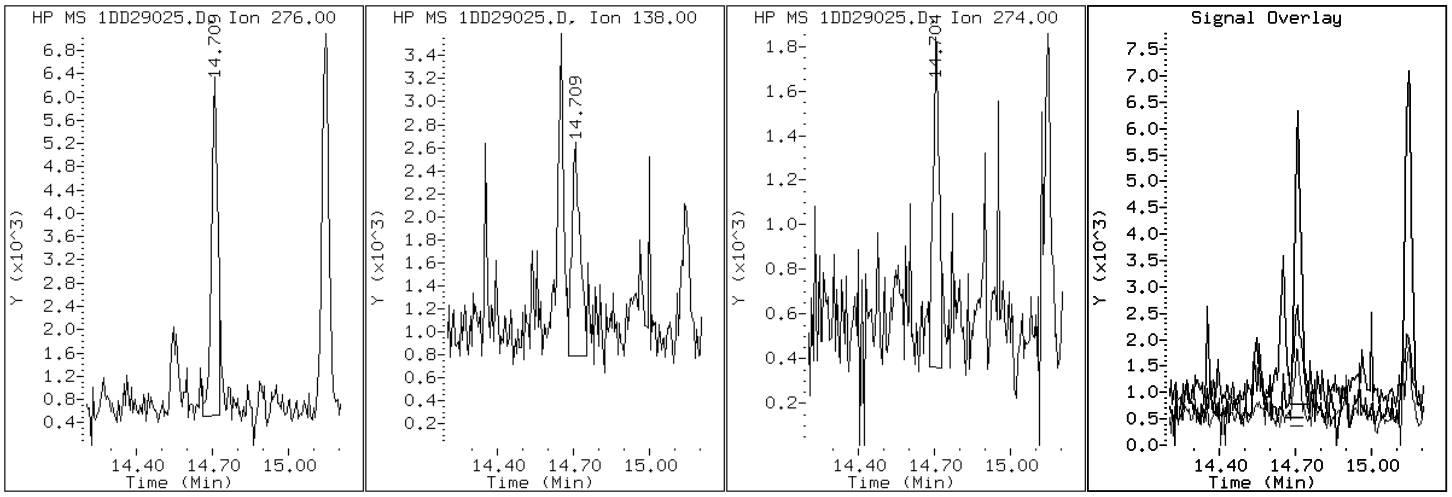
Data File: 1DD29025.D

Date: 29-APR-2013 19:32

Client ID: FM0323B-CS | Instrument: BSMSD.i

Sample Info: 680-89695-a-3-a | Operator: SCC

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



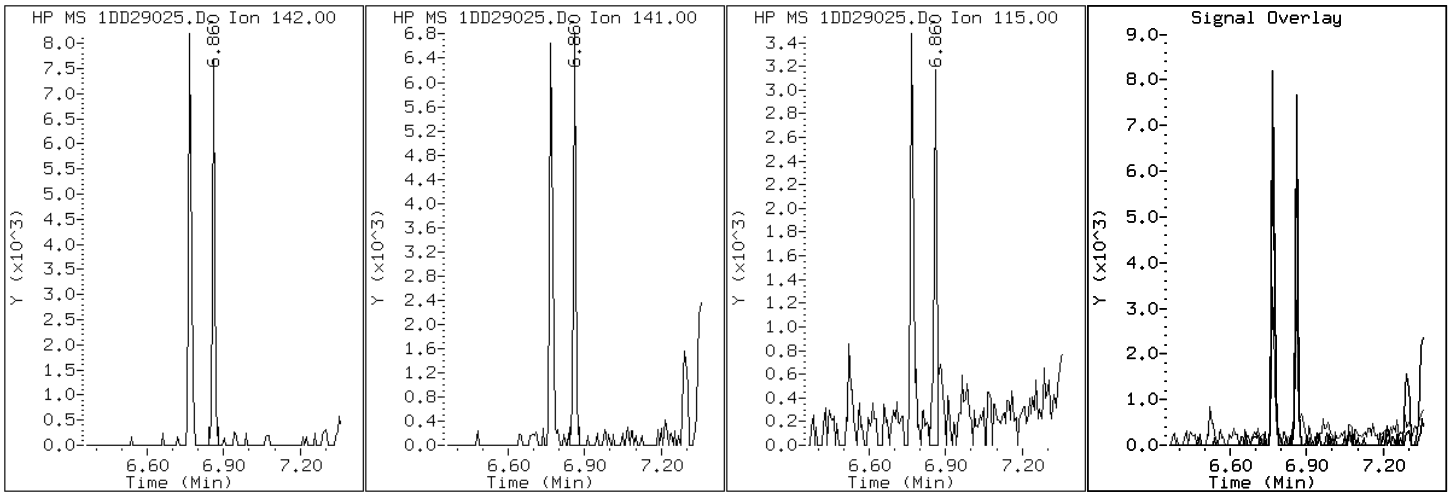
Data File: 1DD29025.D

Date: 29-APR-2013 19:32

Client ID: FM0323B-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-3-a Operator: SCC

4 1-Methylnaphthalene



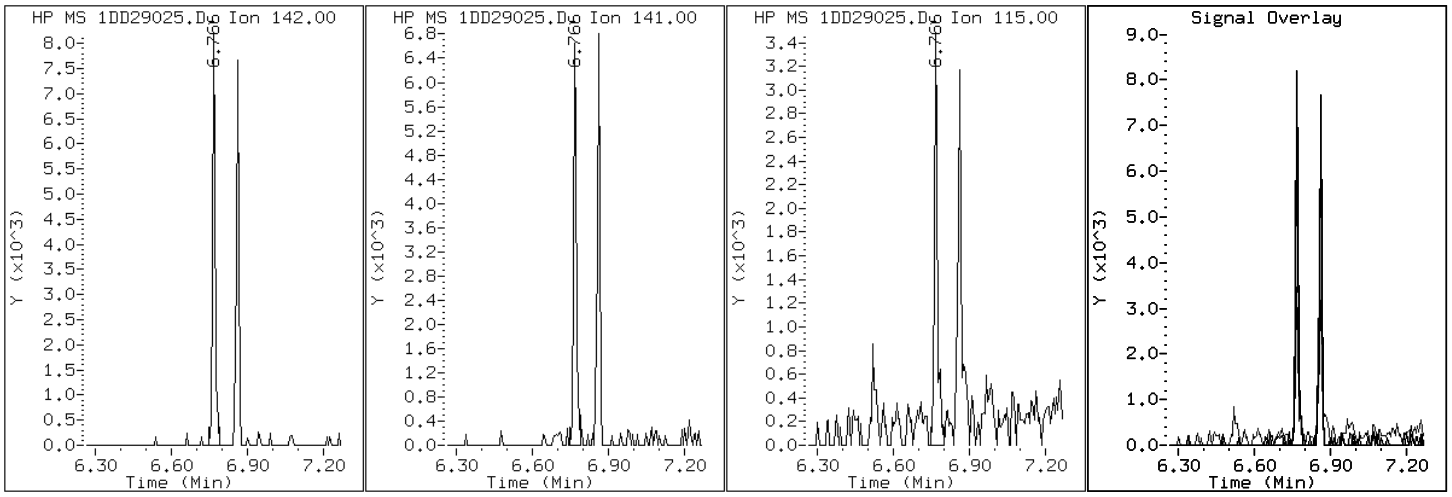
Data File: 1DD29025.D

Date: 29-APR-2013 19:32

Client ID: FM0323B-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-3-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD29025.D

Date: 29-APR-2013 19:32

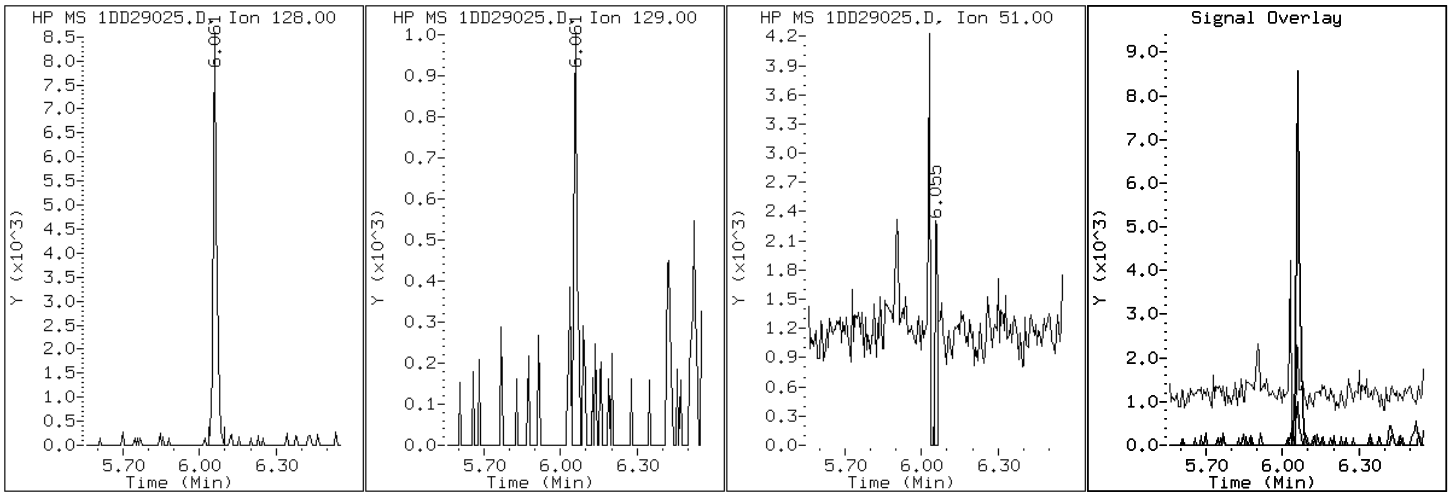
Client ID: FM0323B-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-3-a

Operator: SCC

2 Naphthalene



Data File: 1DD29025.D

Date: 29-APR-2013 19:32

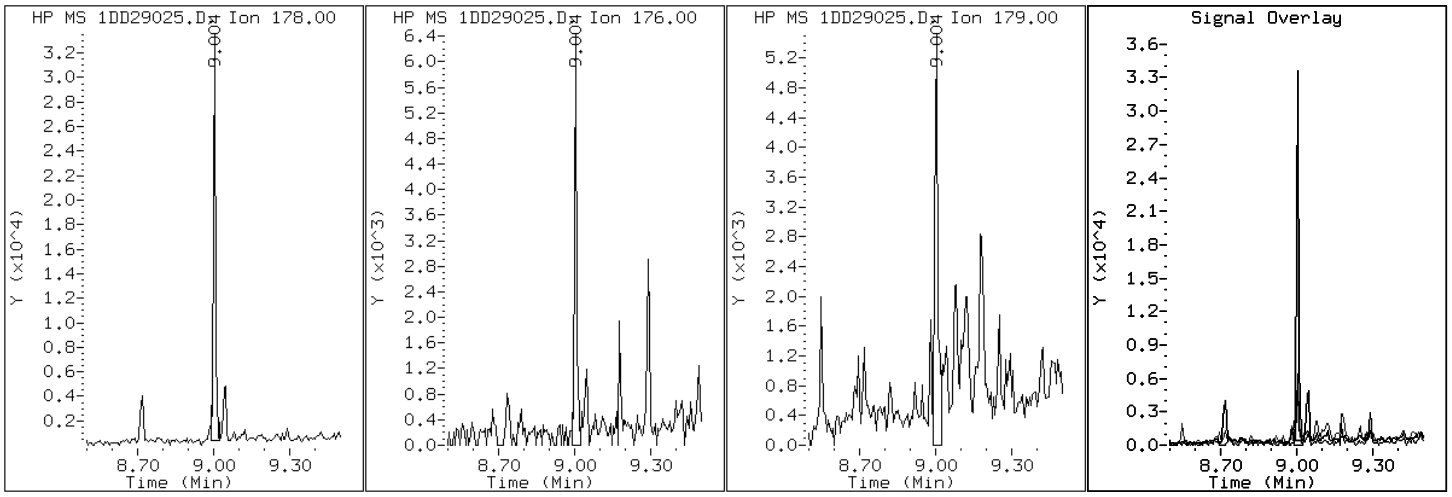
Client ID: FM0323B-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-3-a

Operator: SCC

10 Phenanthrene



Data File: 1DD29025.D

Date: 29-APR-2013 19:32

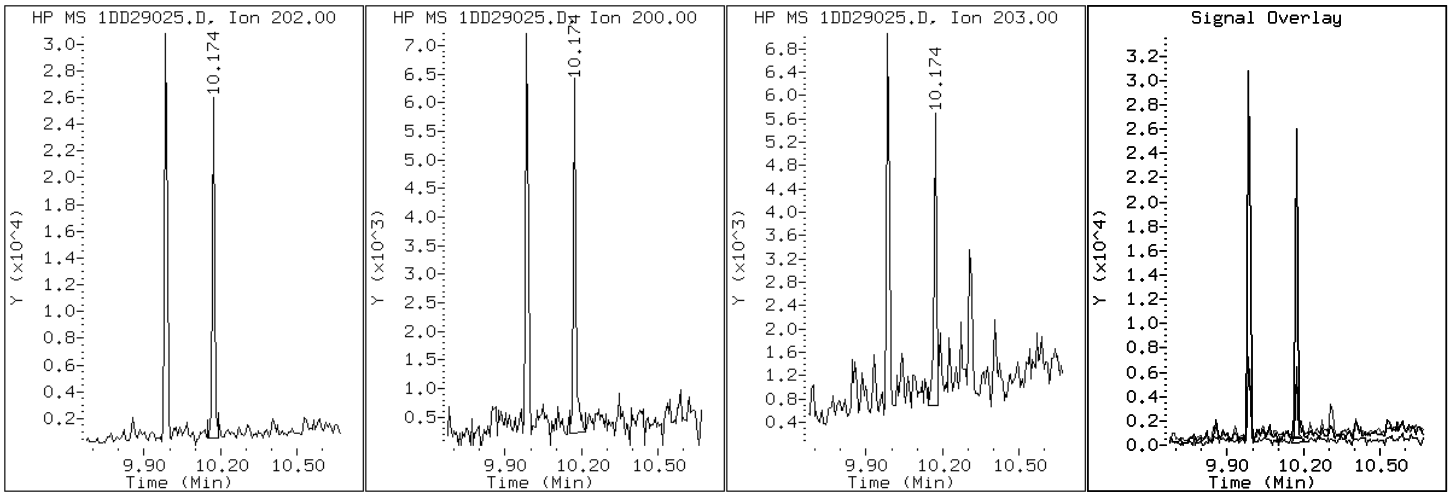
Client ID: FM0323B-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-3-a

Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD29025.D
Inj. Date and Time: 29-APR-2013 19:32
Instrument ID: BSMSD.i
Client ID: FM0323B-CS
Compound: 19 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/30/2013

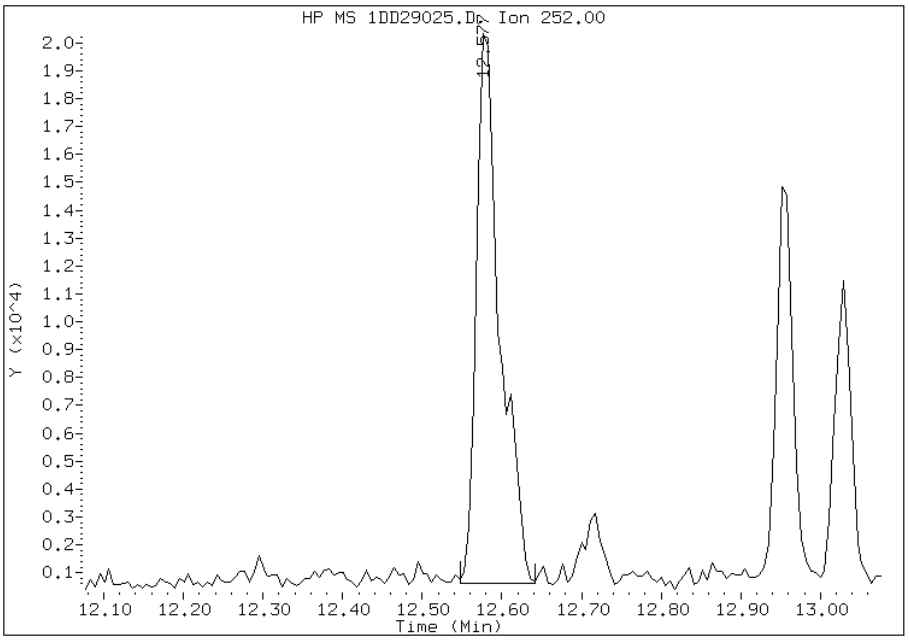
Processing Integration Results

RT: 12.58

Response: 40597

Amount: 1

Conc: 212



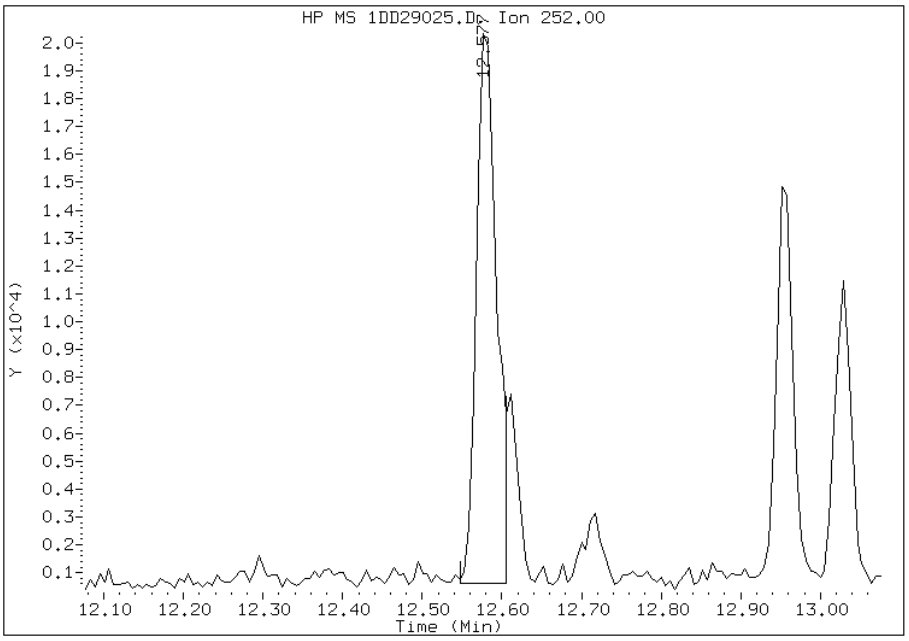
Manual Integration Results

RT: 12.58

Response: 35194

Amount: 1

Conc: 184



Manually Integrated By: cantins
Modification Date: 30-Apr-2013 15:30
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD29025.D
Inj. Date and Time: 29-APR-2013 19:32
Instrument ID: BSMSD.i
Client ID: FM0323B-CS
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/30/2013

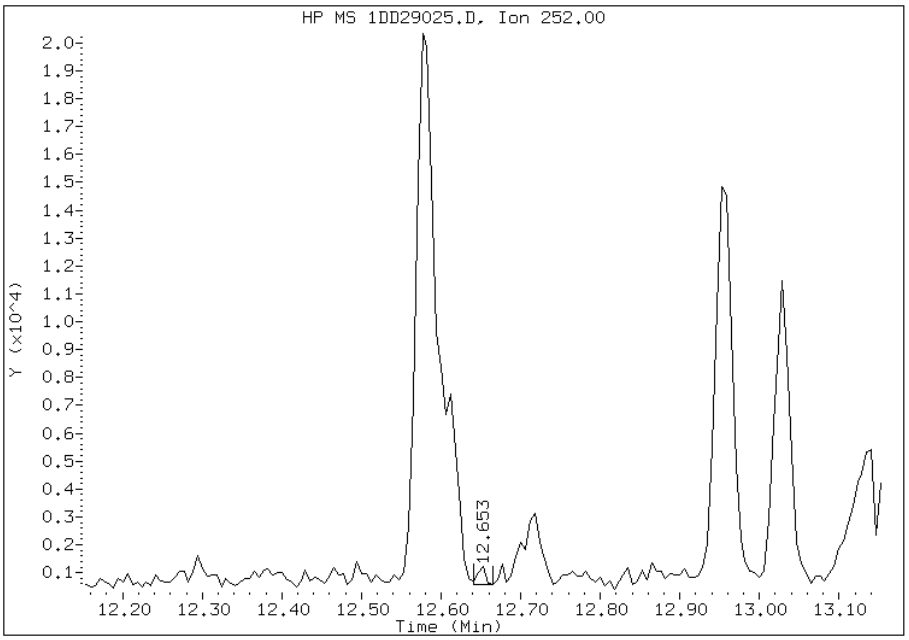
Processing Integration Results

RT: 12.65

Response: 445

Amount: 0

Conc: 2



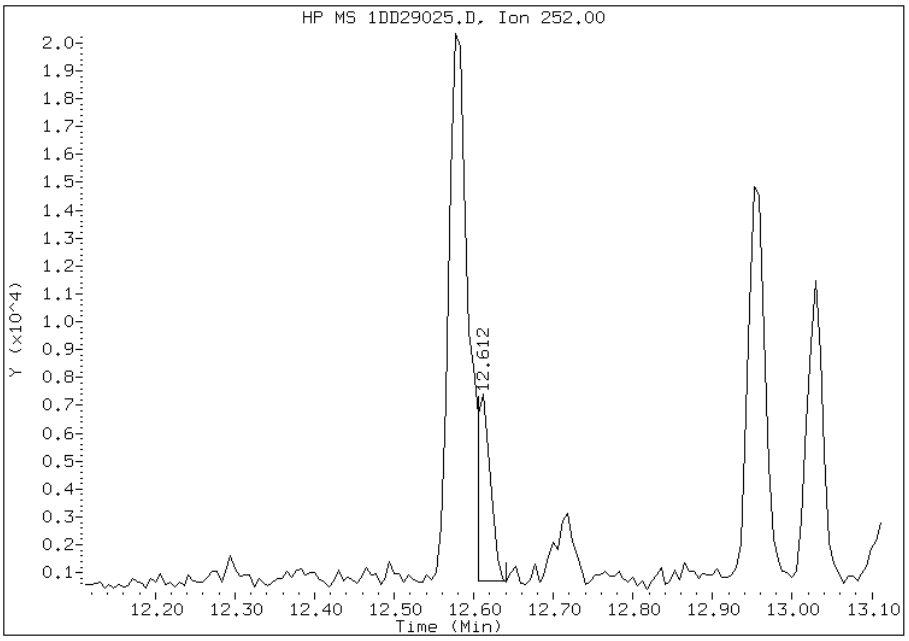
Manual Integration Results

RT: 12.61

Response: 7407

Amount: 0

Conc: 37



Manually Integrated By: cantins
Modification Date: 30-Apr-2013 15:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD29025.D
Inj. Date and Time: 29-APR-2013 19:32
Instrument ID: BSMSD.i
Client ID: FM0323B-CS
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/30/2013

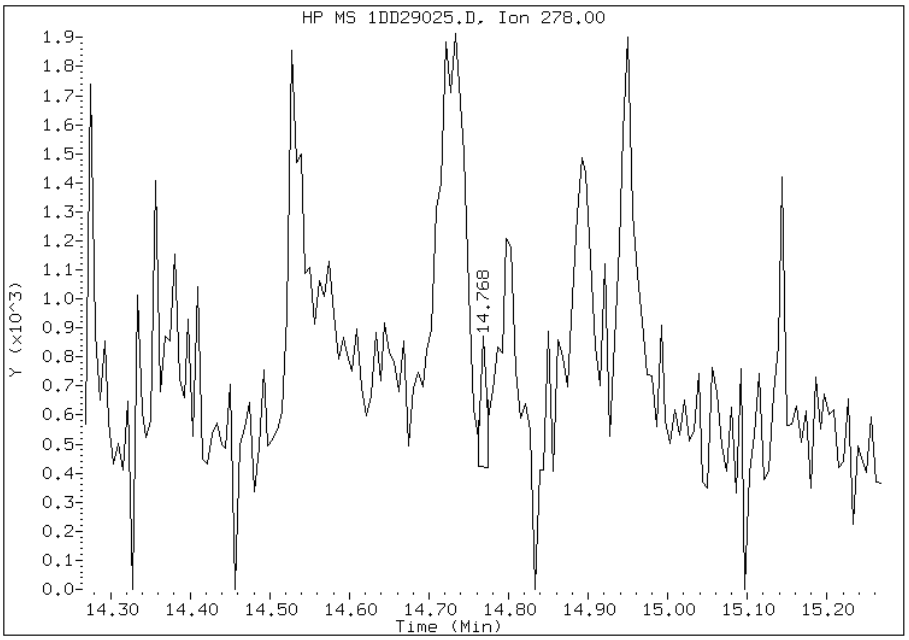
Processing Integration Results

RT: 14.77

Response: 252

Amount: 0

Conc: 1



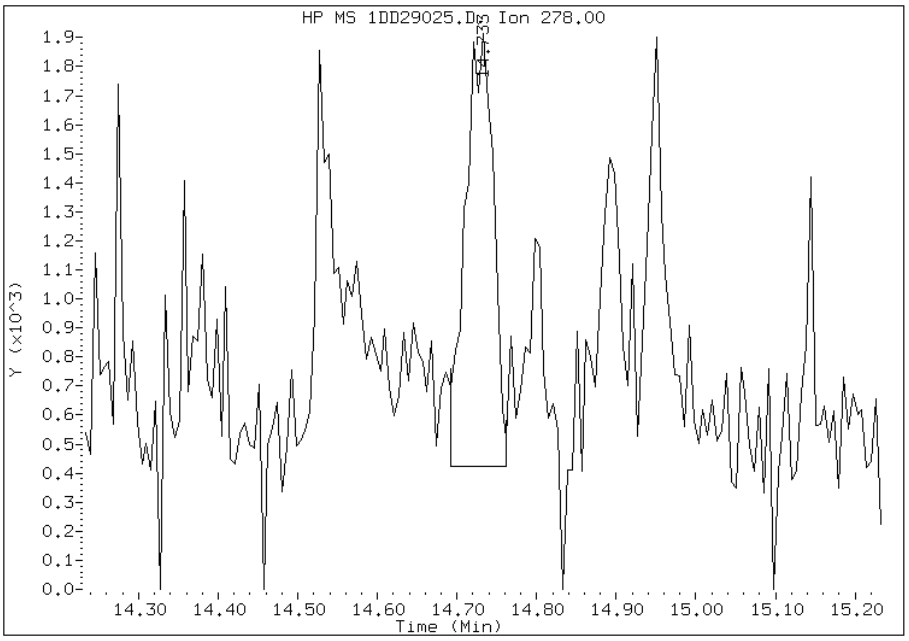
Manual Integration Results

RT: 14.73

Response: 3689

Amount: 0

Conc: 19



Manually Integrated By: cantins
Modification Date: 30-Apr-2013 15:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD29025.D
Inj. Date and Time: 29-APR-2013 19:32
Instrument ID: BSMSD.i
Client ID: FM0323B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/30/2013

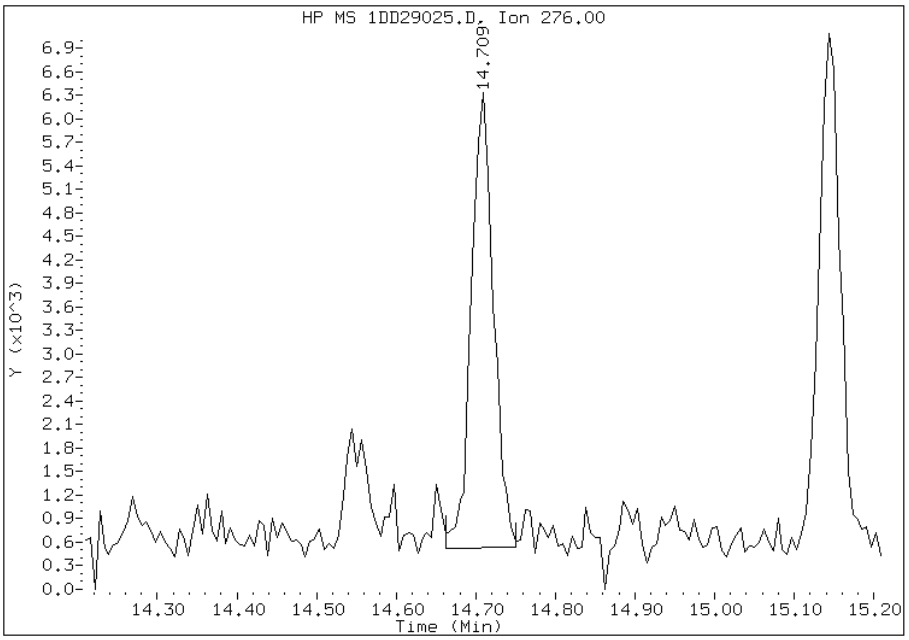
Processing Integration Results

RT: 14.71

Response: 11204

Amount: 0

Conc: 55



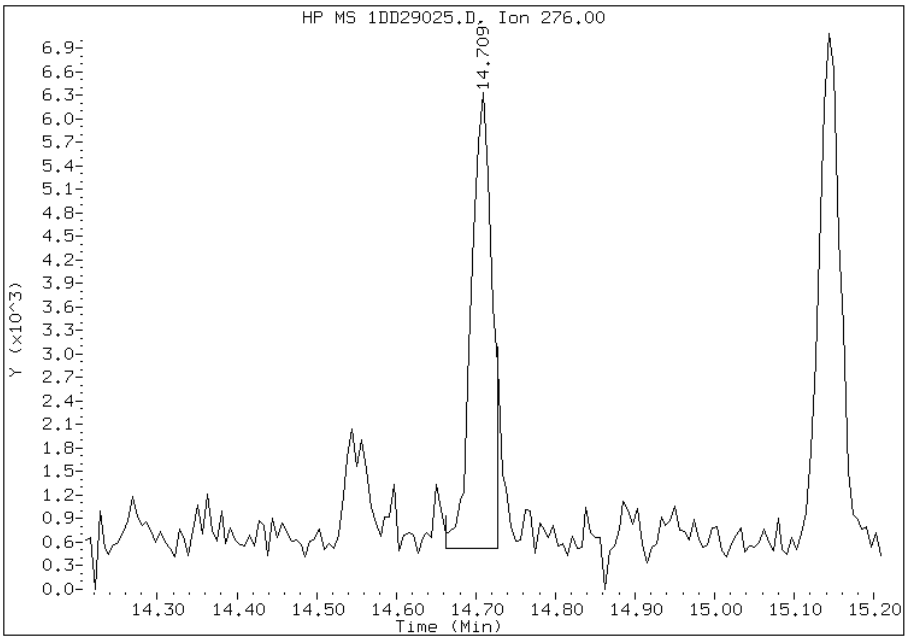
Manual Integration Results

RT: 14.71

Response: 10491

Amount: 0

Conc: 51



Manually Integrated By: cantins
Modification Date: 30-Apr-2013 15:31
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV1329A-CS | Lab Sample ID: 680-89695-4

Matrix: Solid | Lab File ID: 1AD29007.D

Analysis Method: 8270C LL | Date Collected: 04/22/2013 14:55

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 14.95(g) | Date Analyzed: 04/29/2013 13:39

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

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

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136961 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	19	J	48	6.0
120-12-7	Anthracene	32		10	5.0
56-55-3	Benzo[a]anthracene	160	F	9.6	4.7
50-32-8	Benzo[a]pyrene	140	F	12	6.2
205-99-2	Benzo[b]fluoranthene	230		15	7.3
191-24-2	Benzo[g,h,i]perylene	140		24	5.3
207-08-9	Benzo[k]fluoranthene	87		9.6	4.3
218-01-9	Chrysene	170		11	5.4
53-70-3	Dibenz(a,h)anthracene	44		24	4.9
206-44-0	Fluoranthene	250	F	24	4.8
86-73-7	Fluorene	9.0	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	130		24	8.5
90-12-0	1-Methylnaphthalene	86		48	5.3
91-57-6	2-Methylnaphthalene	110		48	8.5
91-20-3	Naphthalene	110		48	5.3
85-01-8	Phenanthrene	160		9.6	4.7
129-00-0	Pyrene	220	F	24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	43		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29007.D
Lab Smp Id: 680-89695-A-4-A Client Smp ID: CV1329A-CS
Inj Date : 29-APR-2013 13:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89695-a-4-a
Misc Info : 680-89695-A-4-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	16.216	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.571	2.572	(1.000)	2172779	40.0000	
* 6 Acenaphthene-d10	164	3.602	3.603	(1.000)	1119810	40.0000	
* 10 Phenanthrene-d10	188	4.553	4.554	(1.000)	1810873	40.0000	
$ 14 o-Terphenyl	230	4.852	4.859	(1.066)	126041	4.25535	339.7303
* 18 Chrysene-d12	240	6.572	6.574	(1.000)	1584619	40.0000	
* 23 Perylene-d12	264	7.662	7.663	(1.000)	1840718	40.0000	
2 Naphthalene	128	2.581	2.583	(1.004)	71445	1.31538	105.0148
3 2-Methylnaphthalene	141	2.987	2.989	(1.162)	43985	1.41249	112.7677
4 1-Methylnaphthalene	142	3.046	3.048	(1.185)	37172	1.07743	86.0178
5 Acenaphthylene	152	3.511	3.513	(0.975)	15736	0.24045	19.1963
9 Fluorene	166	3.933	3.935	(1.092)	4675	0.11322	9.0387(Q)
11 Phenanthrene	178	4.569	4.570	(1.004)	103679	1.97644	157.7913
12 Anthracene	178	4.601	4.608	(1.011)	21925	0.40197	32.0913
13 Carbazole	167	4.729	4.736	(1.039)	14078	0.26755	21.3599

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.429	5.436	(1.192)	188848	3.11685	248.8366
16 Pyrene	202	5.594	5.601	(0.851)	166872	2.76030	220.3711
17 Benzo(a)anthracene	228	6.561	6.563	(0.998)	101513	1.96164	156.6096
19 Chrysene	228	6.588	6.595	(1.002)	115007	2.19059	174.8881
20 Benzo(b)fluoranthene	252	7.379	7.380	(0.963)	163337	2.92283	233.3473(M)
21 Benzo(k)fluoranthene	252	7.389	7.407	(0.964)	70193	1.09247	87.2186(M)
22 Benzo(a)pyrene	252	7.603	7.610	(0.992)	98541	1.77253	141.5116
24 Indeno(1,2,3-cd)pyrene	276	8.415	8.427	(1.098)	85305	1.62511	129.7424(M)
25 Dibenzo(a,h)anthracene	278	8.442	8.454	(1.102)	26954	0.55187	44.0593
26 Benzo(g,h,i)perylene	276	8.634	8.646	(1.127)	102063	1.73729	138.6985

QC Flag Legend

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

Data File: 1AD29007.D

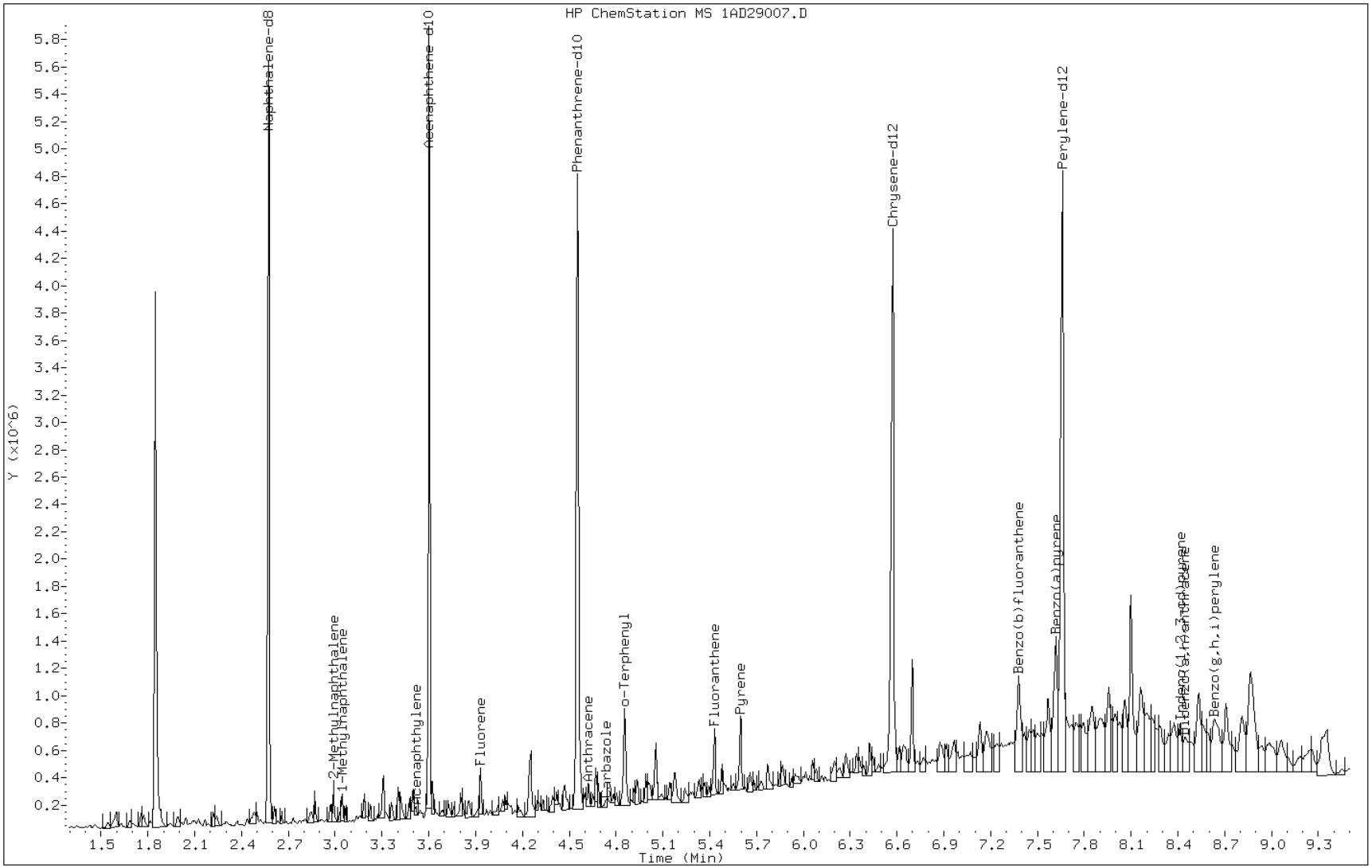
Date: 29-APR-2013 13:39

Client ID: CV1329A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a

Operator: SCC



Data File: 1AD29007.D

Date: 29-APR-2013 13:39

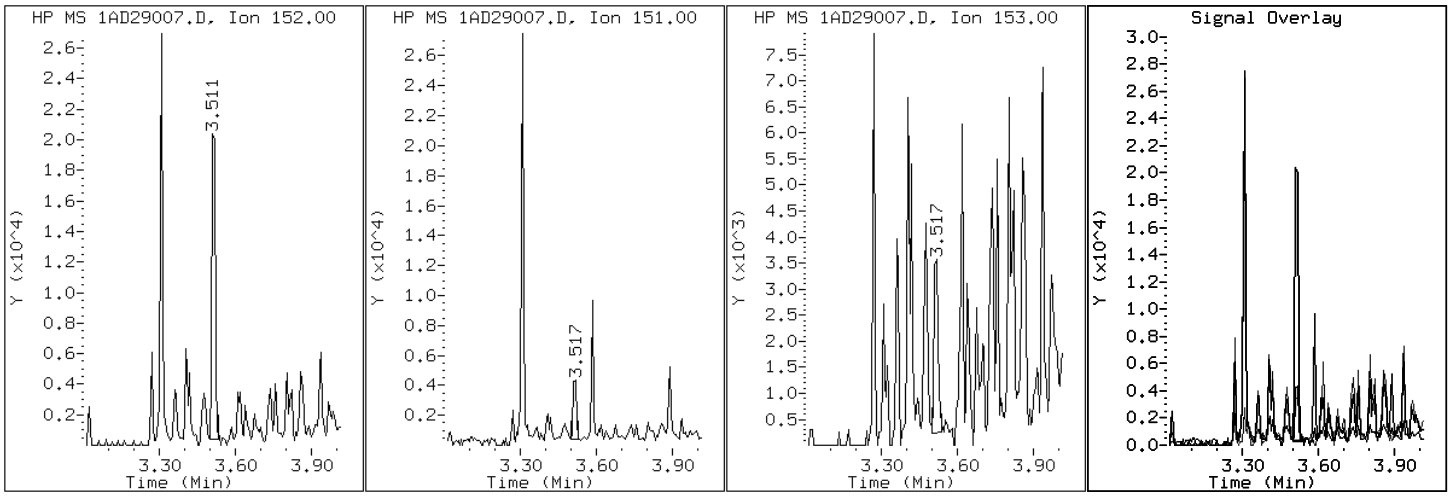
Client ID: CV1329A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a

Operator: SCC

5 Acenaphthylene



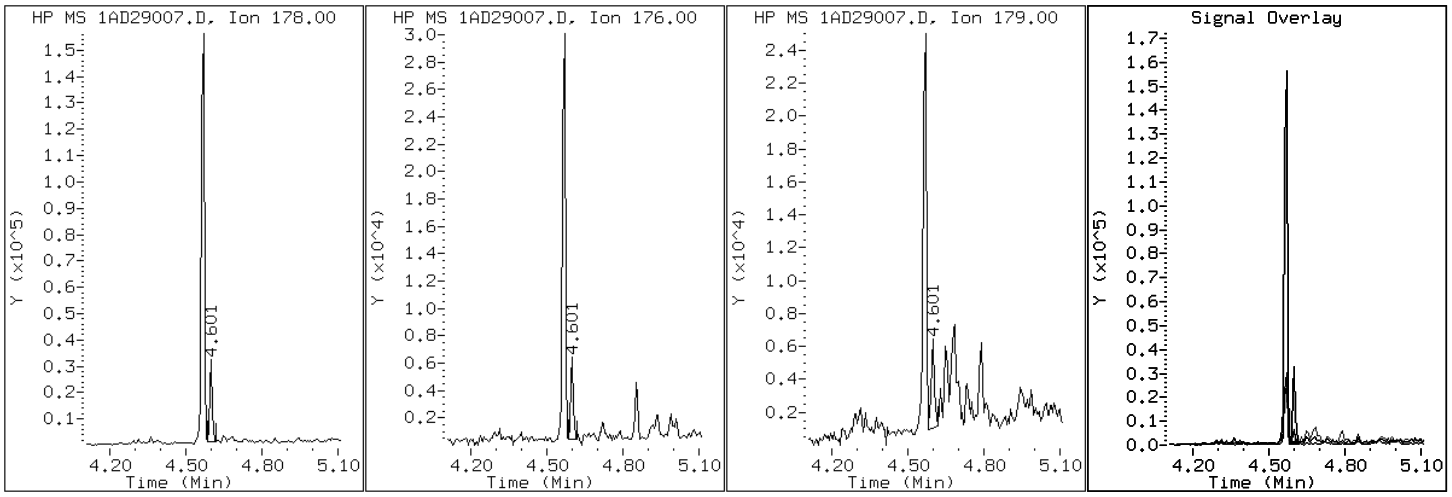
Data File: 1AD29007.D

Date: 29-APR-2013 13:39

Client ID: CV1329A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a Operator: SCC

12 Anthracene



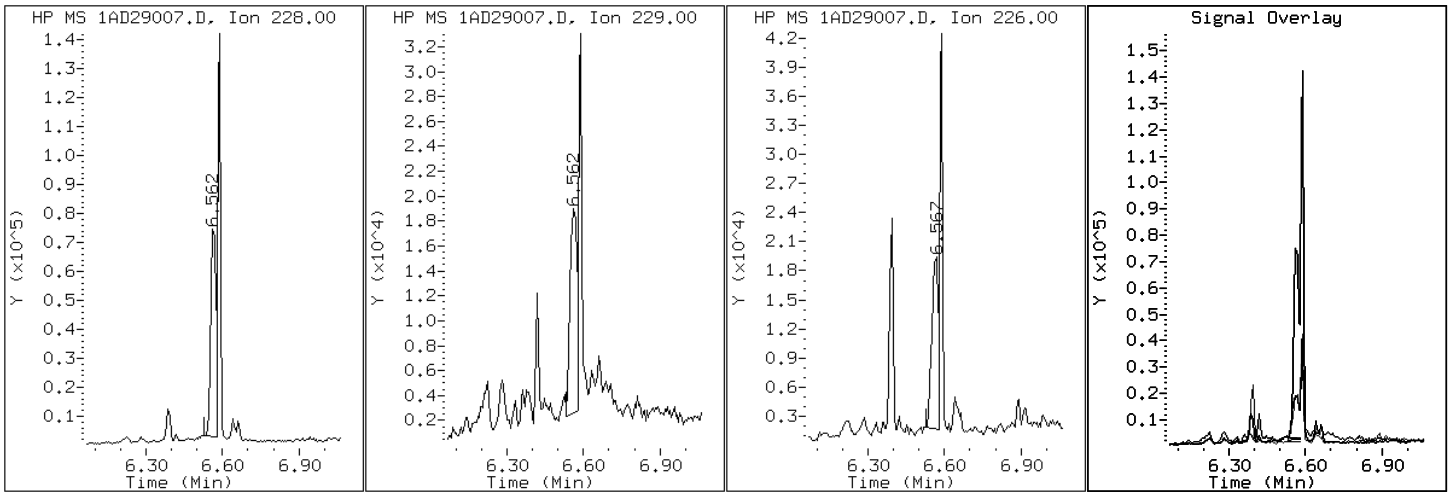
Data File: 1AD29007.D

Date: 29-APR-2013 13:39

Client ID: CV1329A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD29007.D

Date: 29-APR-2013 13:39

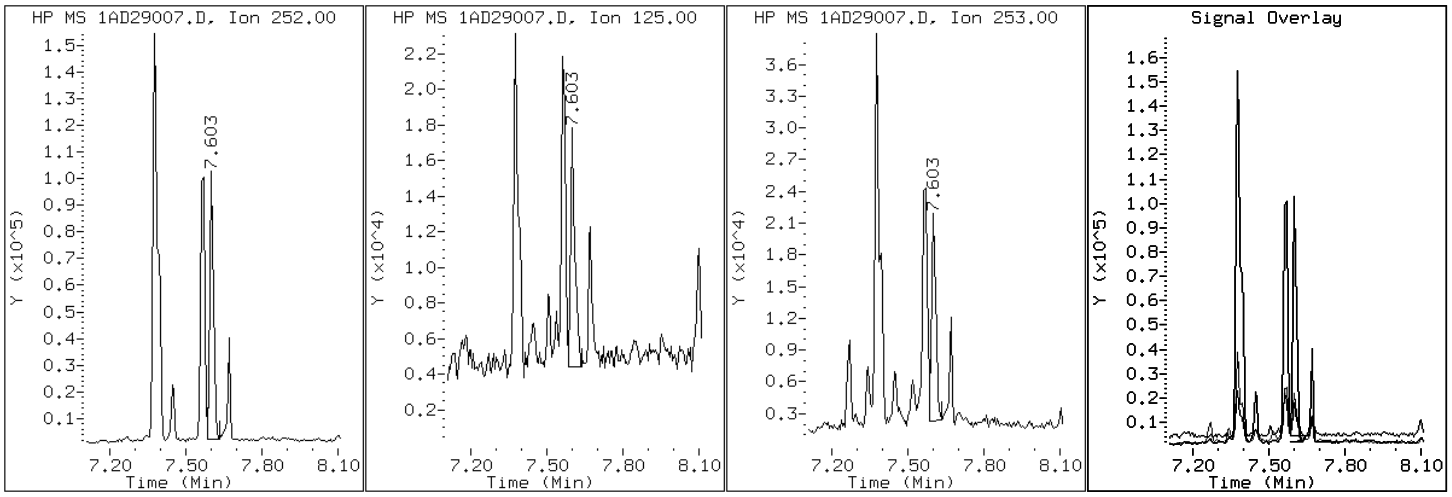
Client ID: CV1329A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a

Operator: SCC

22 Benzo(a)pyrene



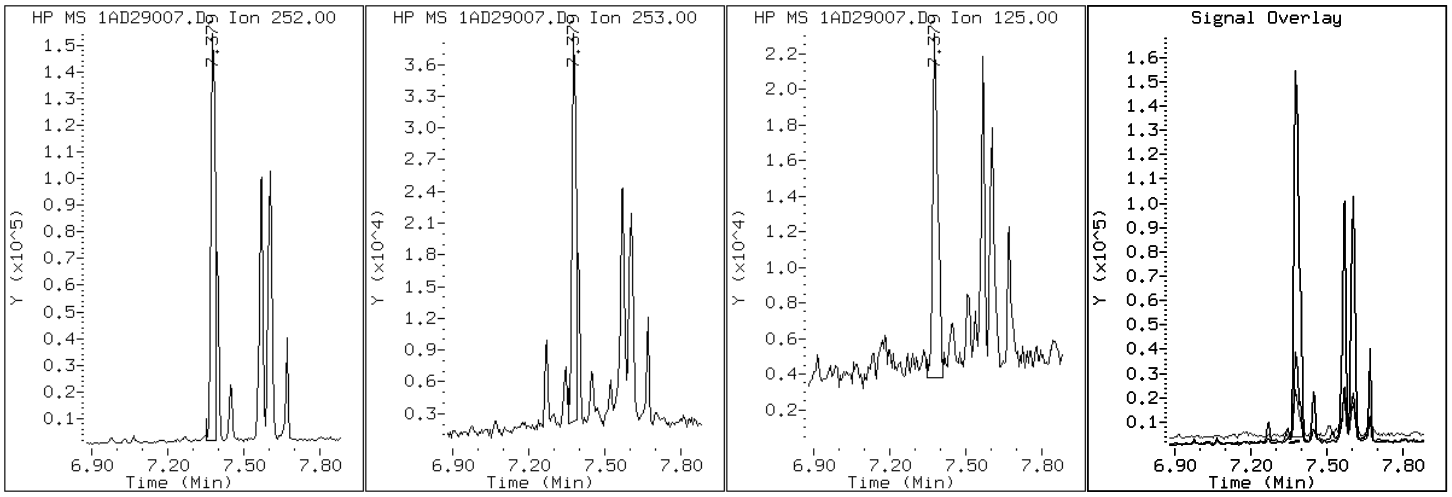
Data File: 1AD29007.D

Date: 29-APR-2013 13:39

Client ID: CV1329A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD29007.D

Date: 29-APR-2013 13:39

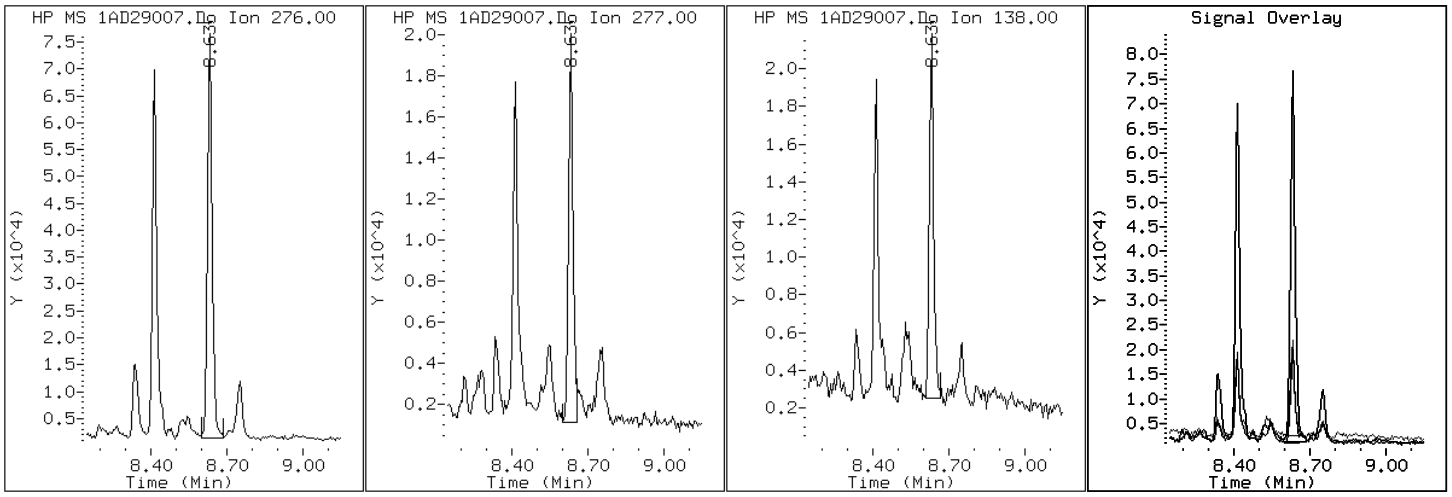
Client ID: CV1329A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a

Operator: SCC

26 Benzo(g,h,i)perylene



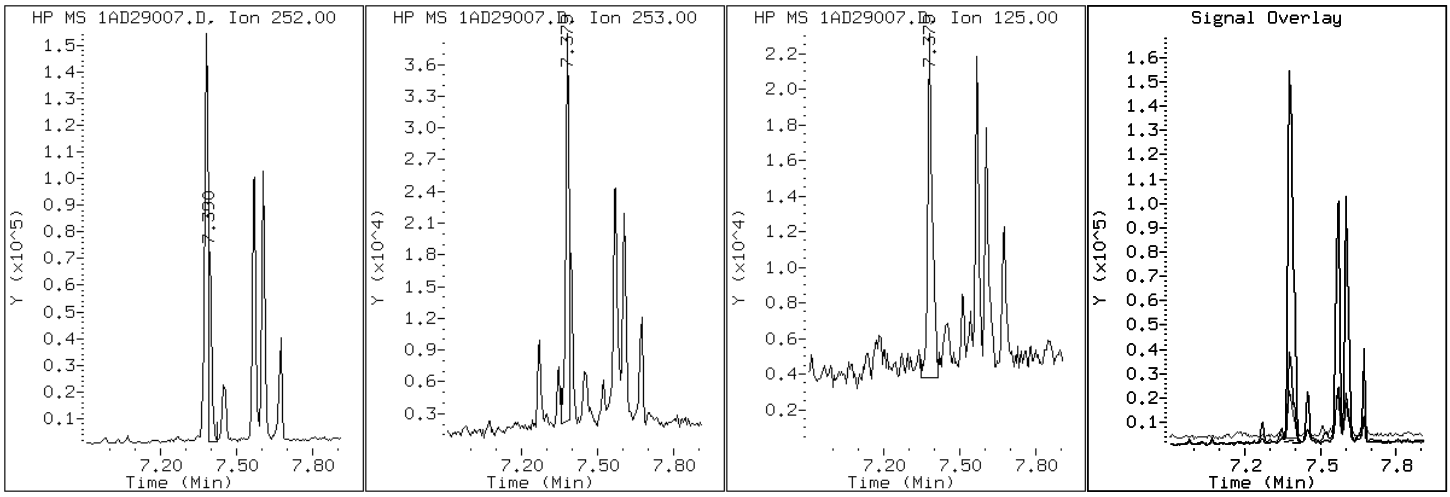
Data File: 1AD29007.D

Date: 29-APR-2013 13:39

Client ID: CV1329A-CS | Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a | Operator: SCC

21 Benzo(k)fluoranthene



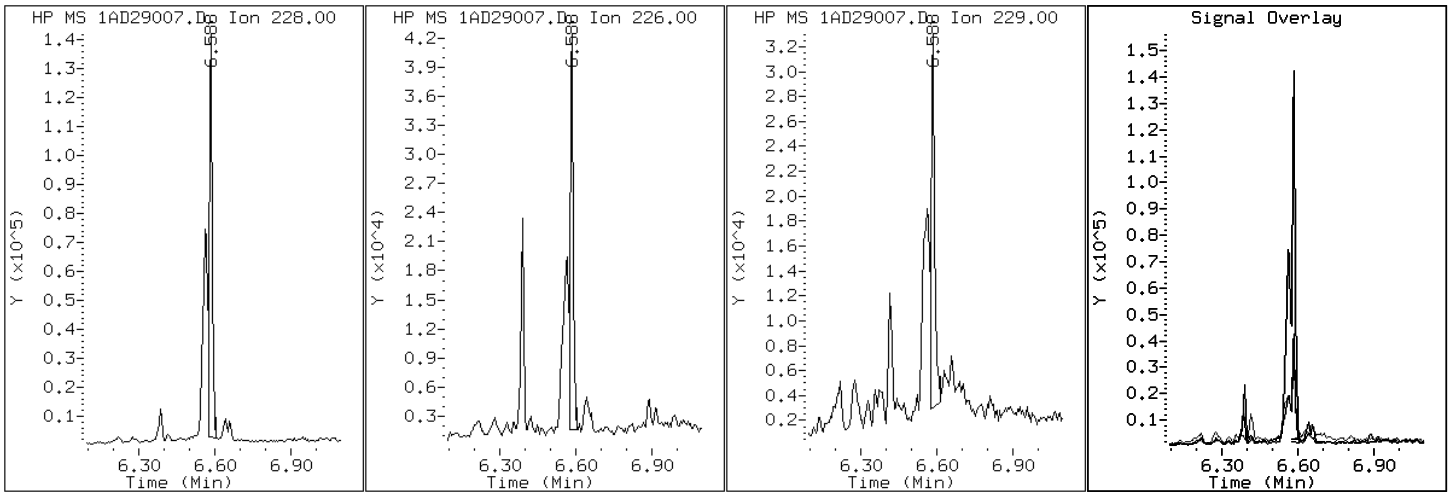
Data File: 1AD29007.D

Date: 29-APR-2013 13:39

Client ID: CV1329A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a Operator: SCC

19 Chrysene



Data File: 1AD29007.D

Date: 29-APR-2013 13:39

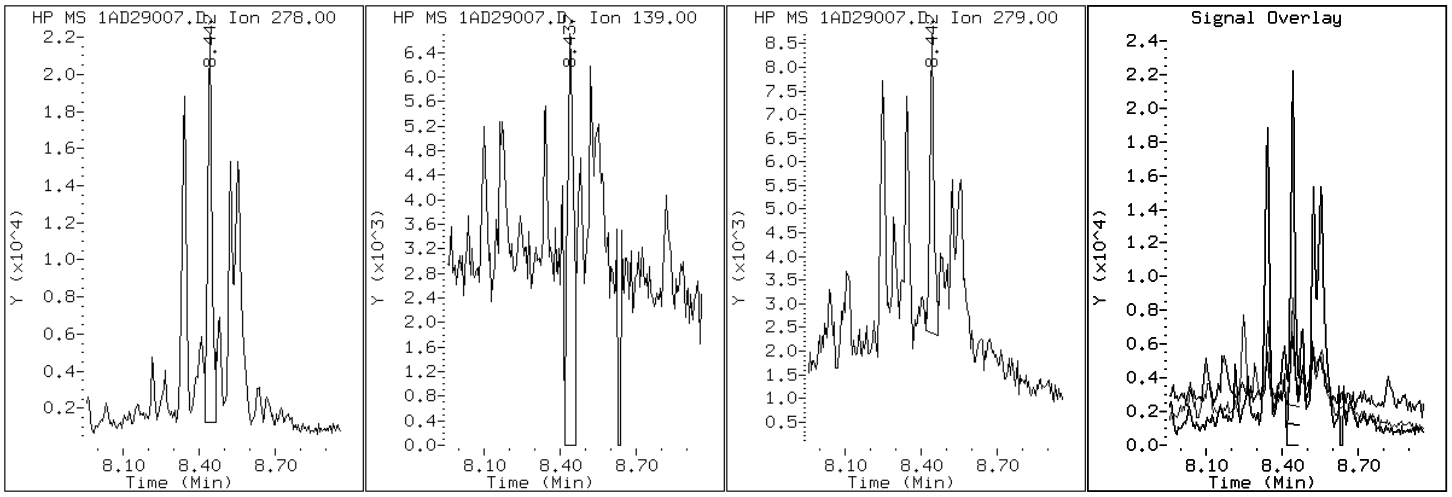
Client ID: CV1329A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD29007.D

Date: 29-APR-2013 13:39

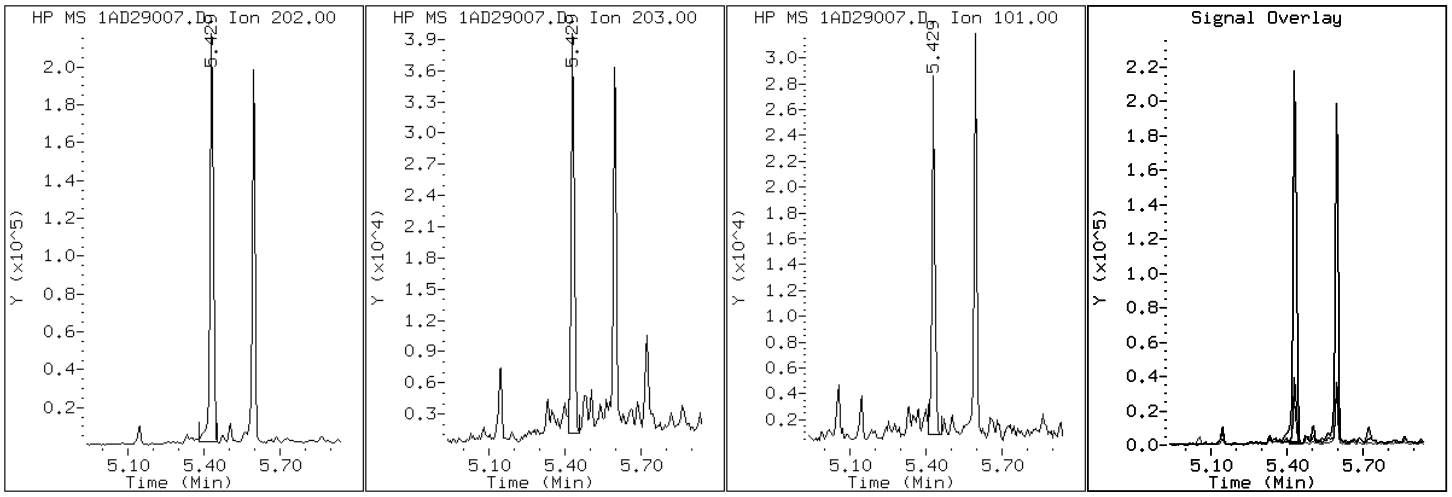
Client ID: CV1329A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a

Operator: SCC

15 Fluoranthene



Data File: 1AD29007.D

Date: 29-APR-2013 13:39

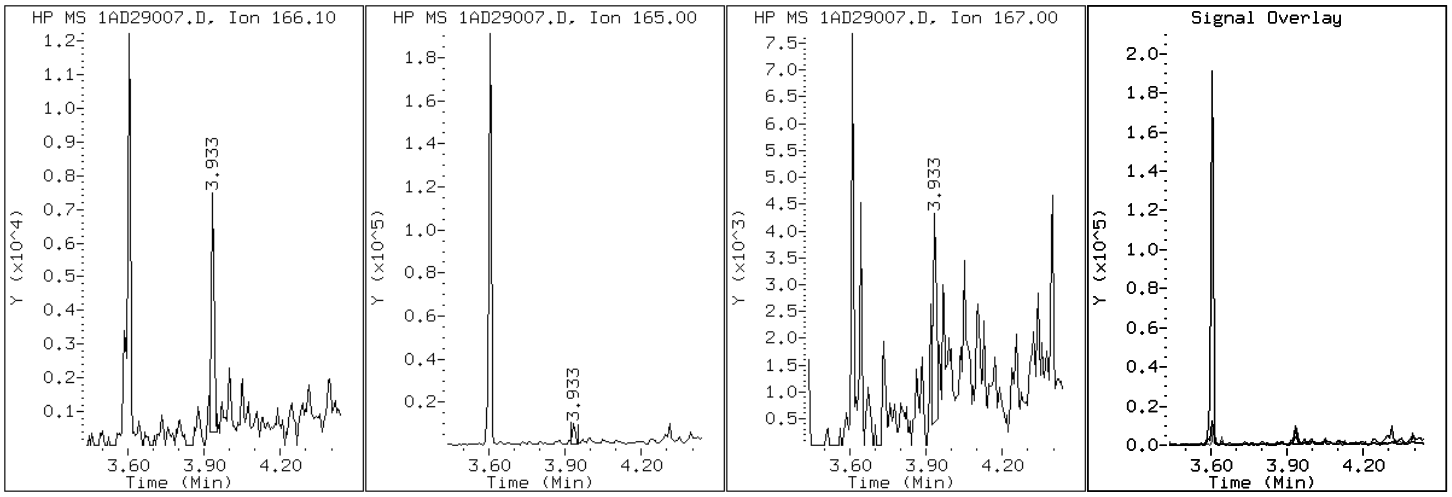
Client ID: CV1329A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a

Operator: SCC

9 Fluorene



Data File: 1AD29007.D

Date: 29-APR-2013 13:39

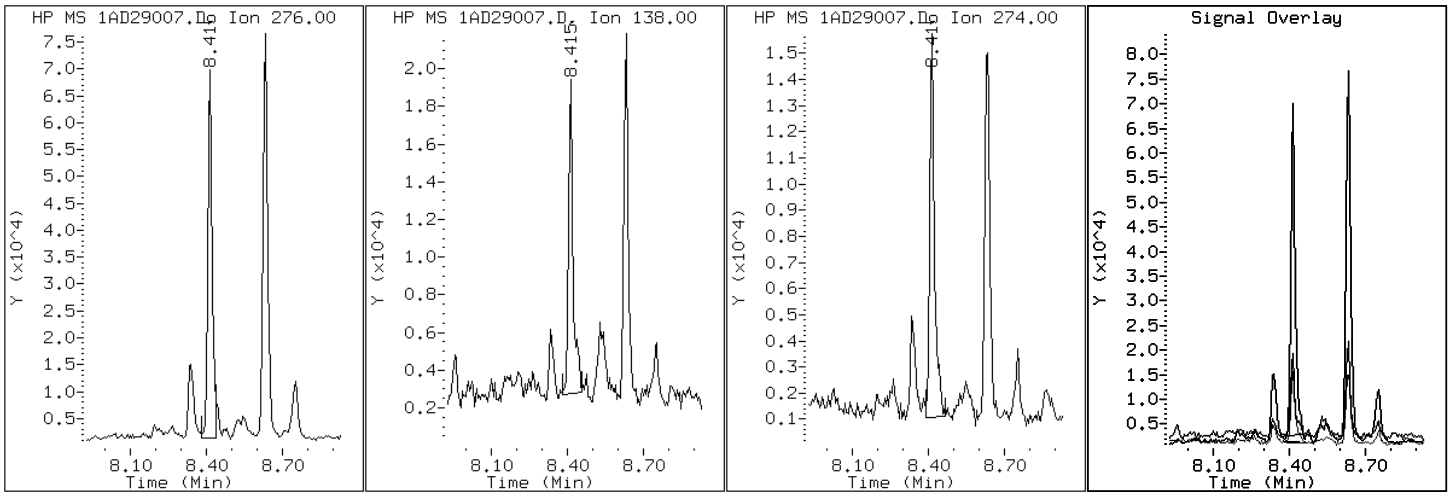
Client ID: CV1329A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a

Operator: SCC

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



Data File: 1AD29007.D

Date: 29-APR-2013 13:39

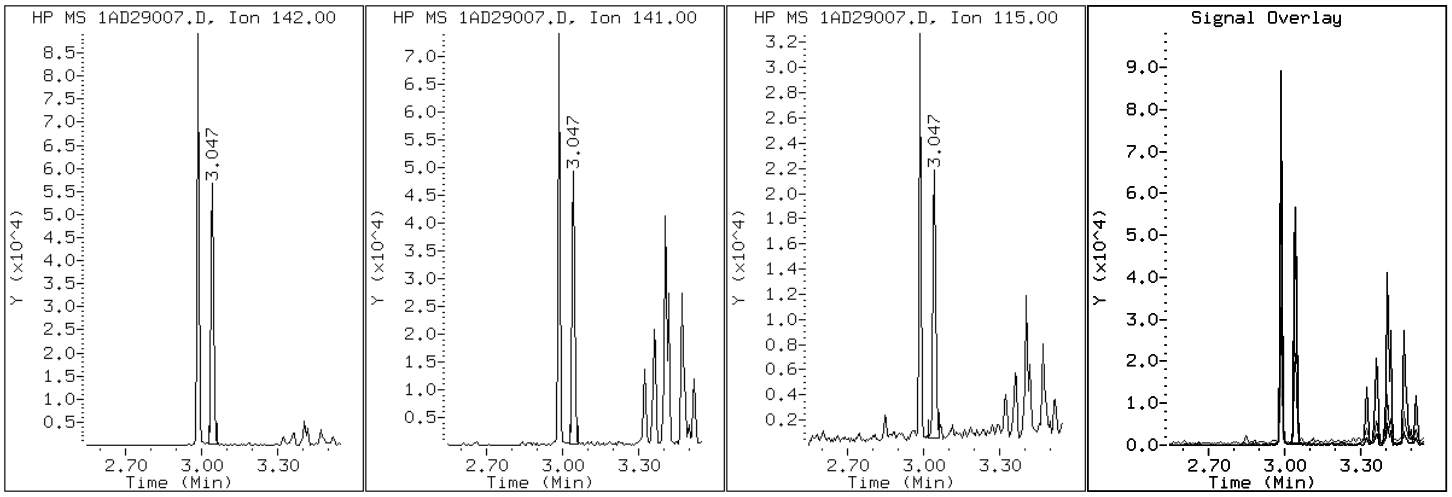
Client ID: CV1329A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a

Operator: SCC

4 1-Methylnaphthalene



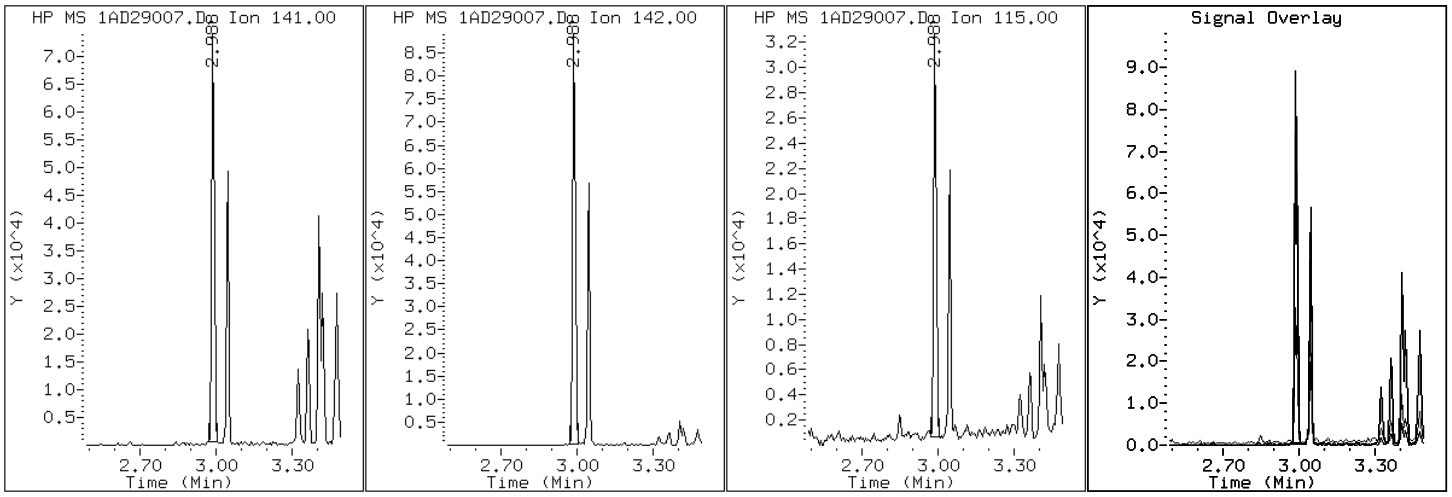
Data File: 1AD29007.D

Date: 29-APR-2013 13:39

Client ID: CV1329A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD29007.D

Date: 29-APR-2013 13:39

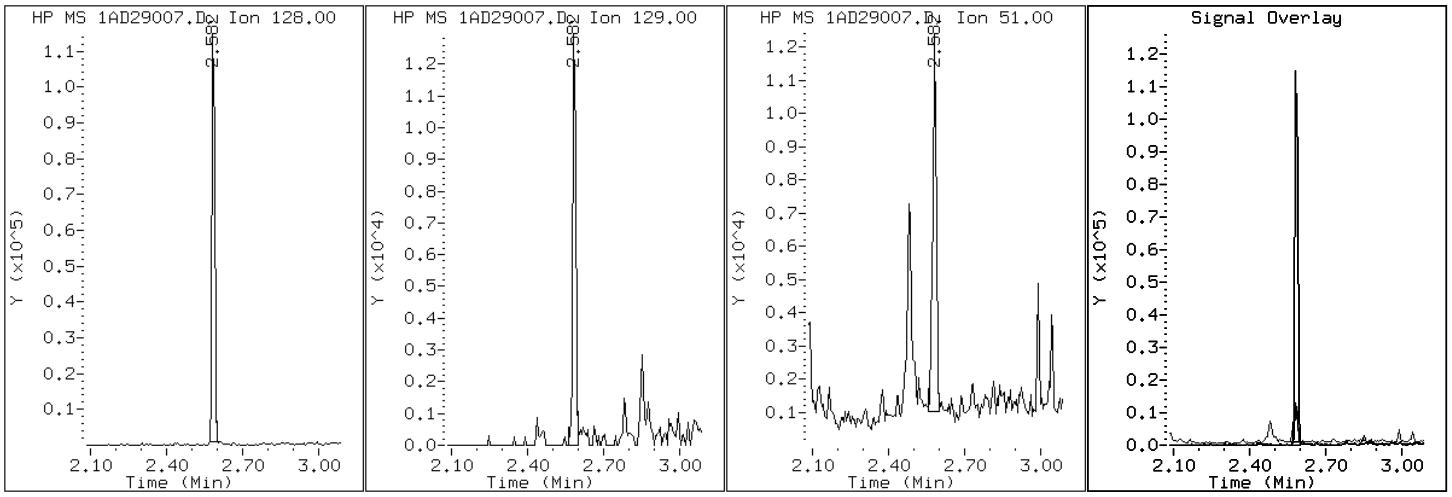
Client ID: CV1329A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a

Operator: SCC

2 Naphthalene



Data File: 1AD29007.D

Date: 29-APR-2013 13:39

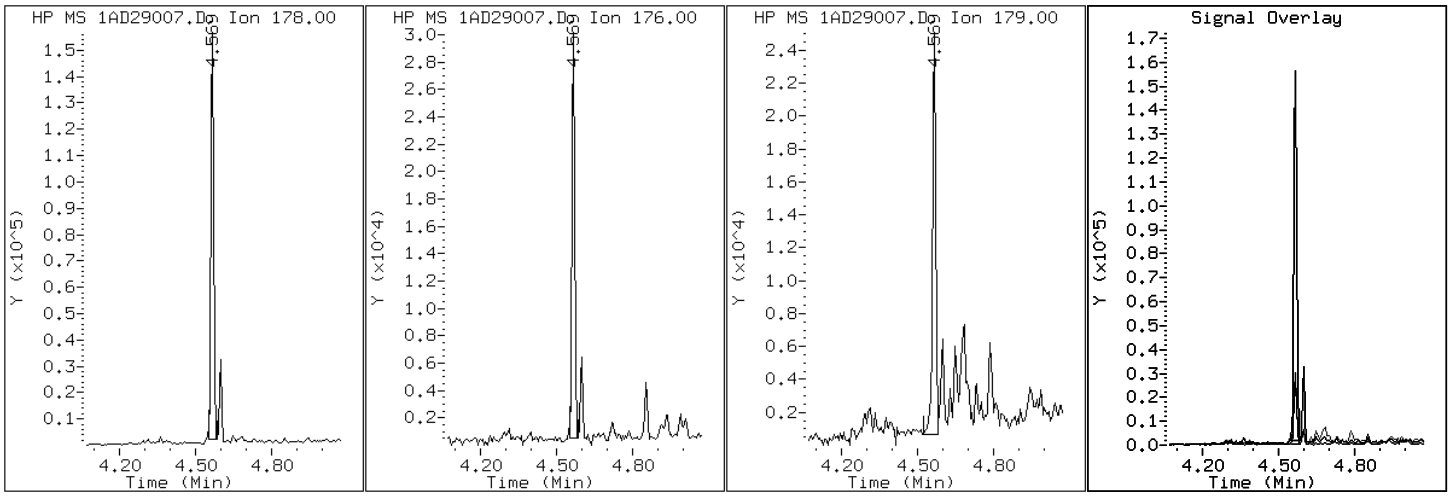
Client ID: CV1329A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a

Operator: SCC

11 Phenanthrene



Data File: 1AD29007.D

Date: 29-APR-2013 13:39

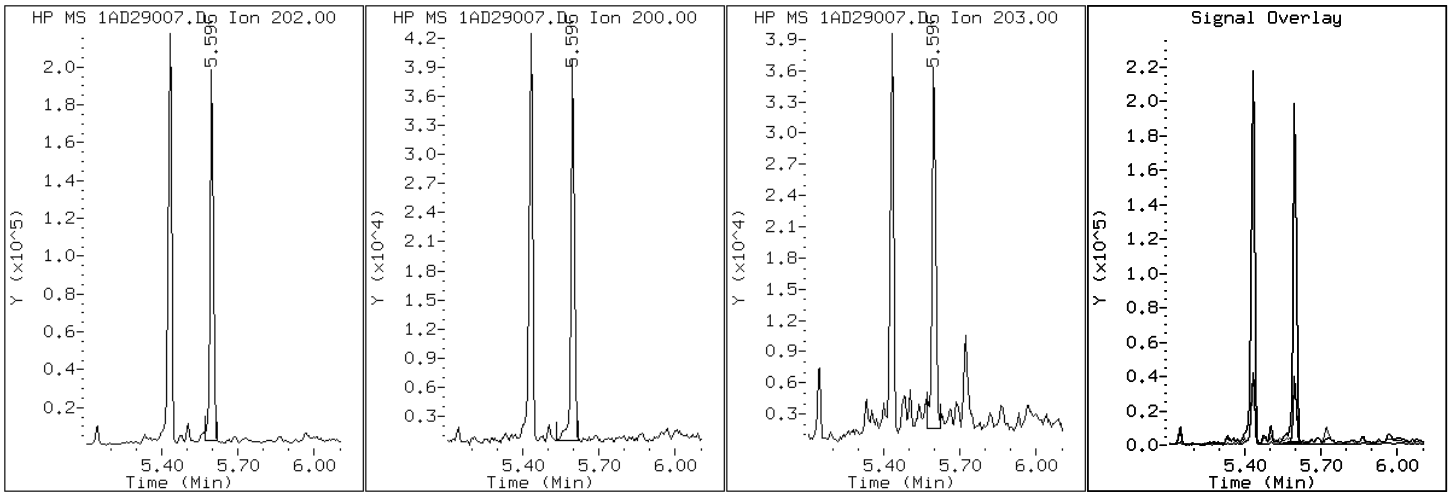
Client ID: CV1329A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD29007.D
Inj. Date and Time: 29-APR-2013 13:39
Instrument ID: BSMA5973.i
Client ID: CV1329A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

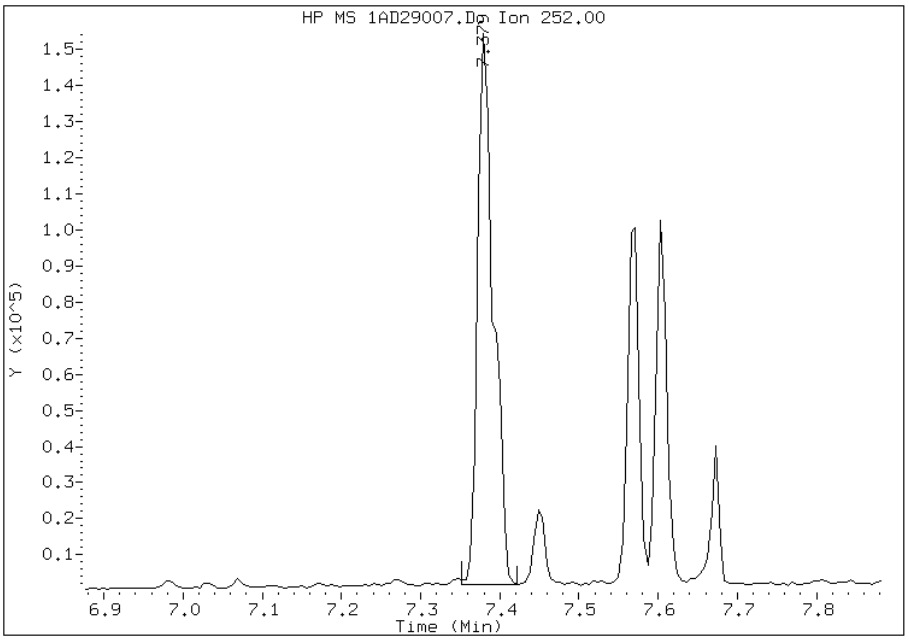
Processing Integration Results

RT: 7.38

Response: 209427

Amount: 4

Conc: 299



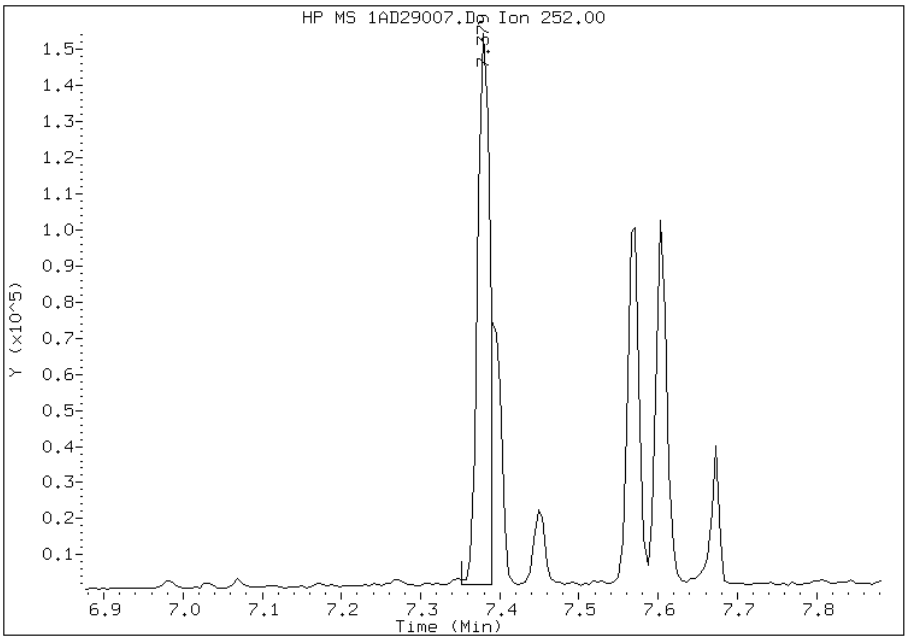
Manual Integration Results

RT: 7.38

Response: 163337

Amount: 3

Conc: 233



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:27
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29007.D
Inj. Date and Time: 29-APR-2013 13:39
Instrument ID: BSMA5973.i
Client ID: CV1329A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

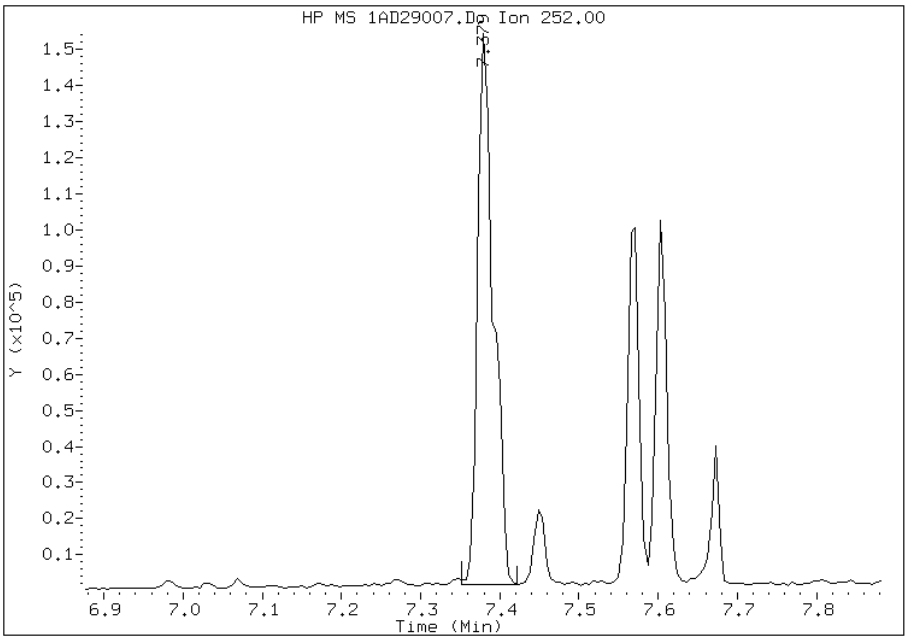
Processing Integration Results

RT: 7.38

Response: 209427

Amount: 3

Conc: 260



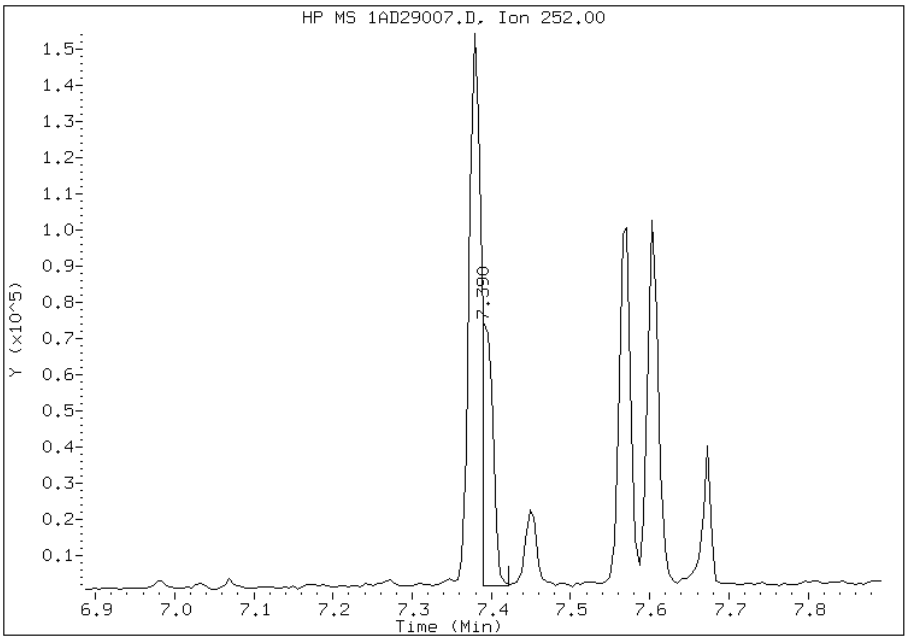
Manual Integration Results

RT: 7.39

Response: 70193

Amount: 1

Conc: 87



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29007.D
Inj. Date and Time: 29-APR-2013 13:39
Instrument ID: BSMA5973.i
Client ID: CV1329A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

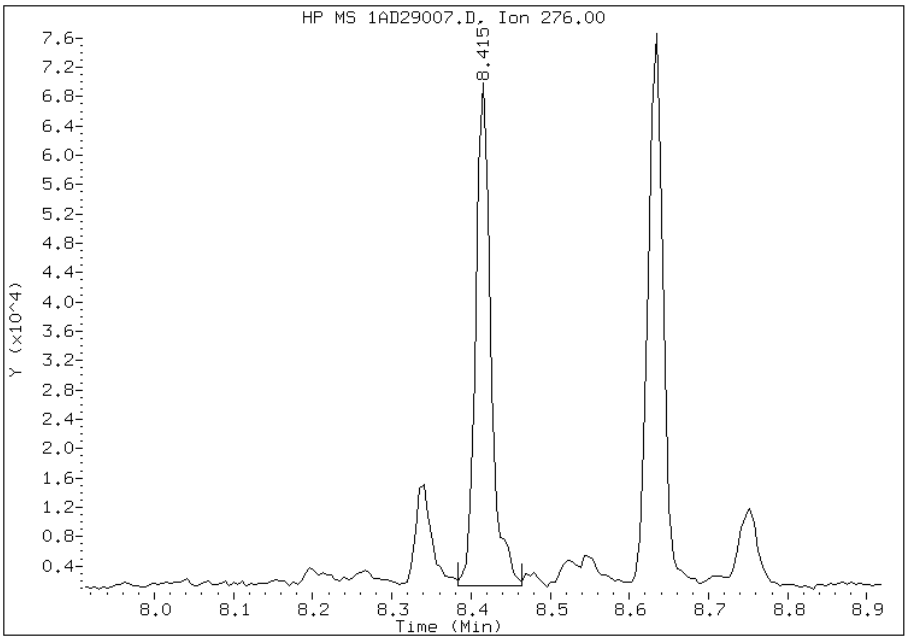
Processing Integration Results

RT: 8.42

Response: 90041

Amount: 2

Conc: 137



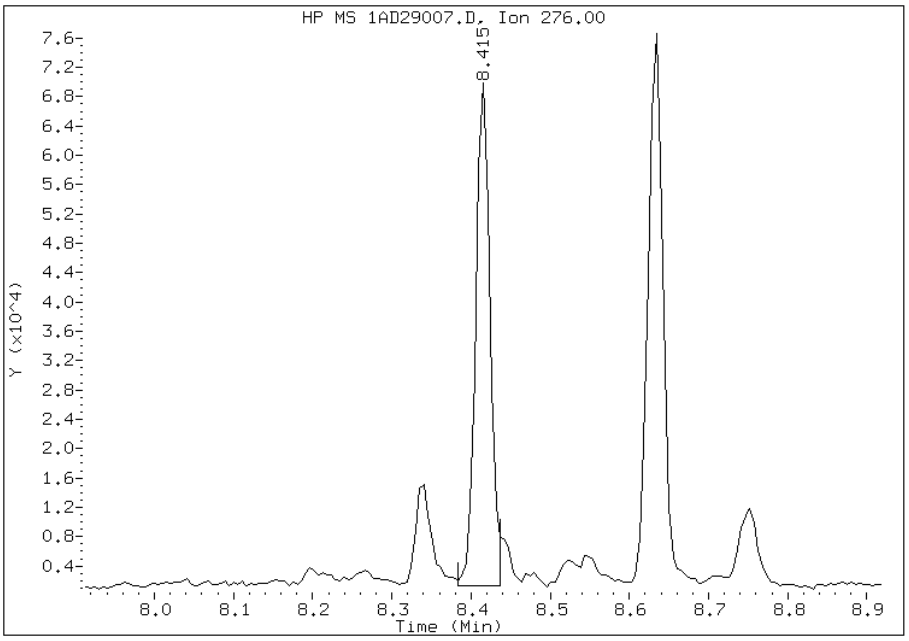
Manual Integration Results

RT: 8.42

Response: 85305

Amount: 2

Conc: 130



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:27
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV0773A-CS | Lab Sample ID: 680-89695-5

Matrix: Solid | Lab File ID: 1DD29026.D

Analysis Method: 8270C LL | Date Collected: 04/23/2013 09:25

Extract. Method: 3546 | Date Extracted: 04/25/2013 12:29

Sample wt/vol: 14.95(g) | Date Analyzed: 04/29/2013 19:55

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

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

% Moisture: 20.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136926 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	9.0	J	50	6.3
120-12-7	Anthracene	18		11	5.3
56-55-3	Benzo[a]anthracene	71		10	4.9
50-32-8	Benzo[a]pyrene	66		13	6.5
205-99-2	Benzo[b]fluoranthene	130		15	7.7
191-24-2	Benzo[g,h,i]perylene	46		25	5.5
207-08-9	Benzo[k]fluoranthene	39		10	4.5
218-01-9	Chrysene	120		11	5.6
53-70-3	Dibenz(a,h)anthracene	15	J	25	5.1
206-44-0	Fluoranthene	110		25	5.0
86-73-7	Fluorene	5.1	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	32		25	8.9
90-12-0	1-Methylnaphthalene	46	J	50	5.5
91-57-6	2-Methylnaphthalene	52		50	8.9
91-20-3	Naphthalene	50		50	5.5
85-01-8	Phenanthrene	96		10	4.9
129-00-0	Pyrene	90		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	45		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\1DD29026.D
Lab Smp Id: 680-89695-A-5-A Client Smp ID: CV0773A-CS
Inj Date : 29-APR-2013 19:55
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89695-a-5-a
Misc Info : 680-89695-A-5-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\dFASTPAHi.m
Meth Date : 29-Apr-2013 11:13 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	20.000	% 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	6.039	6.037	(1.000)	2578165	40.0000	
* 6 Acenaphthene-d10	164	7.726	7.717	(1.000)	1696204	40.0000	
* 9 Phenanthrene-d10	188	8.989	8.980	(1.000)	2822267	40.0000	
$ 13 o-Terphenyl	230	9.289	9.286	(1.033)	192846	4.53498	380
* 17 Chrysene-d12	240	11.304	11.295	(1.000)	2913261	40.0000	
* 22 Perylene-d12	264	13.143	13.117	(1.000)	2420660	40.0000	
2 Naphthalene	128	6.057	6.054	(1.003)	37961	0.59239	50
3 2-Methylnaphthalene	142	6.768	6.765	(1.121)	25854	0.62500	52
4 1-Methylnaphthalene	142	6.862	6.859	(1.136)	21533	0.55122	46
5 Acenaphthylene	152	7.596	7.588	(0.983)	7758	0.10806	9.0
8 Fluorene	166	8.190	8.187	(1.060)	3180	0.06060	5.1(Q)
10 Phenanthrene	178	9.007	8.998	(1.002)	88885	1.14339	96
11 Anthracene	178	9.042	9.039	(1.006)	16358	0.21201	18
12 Carbazole	167	9.189	9.180	(1.022)	14839	0.21803	18(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	9.988	9.985	(1.111)	107230	1.34043	110
15 Pyrene	202	10.176	10.173	(0.900)	94065	1.07521	90
16 Benzo(a)anthracene	228	11.292	11.278	(0.999)	71600	0.85007	71
18 Chrysene	228	11.327	11.319	(1.002)	108723	1.37666	120
19 Benzo(b)fluoranthene	252	12.585	12.570	(0.958)	96530	1.59636	130
20 Benzo(k)fluoranthene	252	12.620	12.611	(0.960)	29381	0.46121	38
21 Benzo(a)pyrene	252	13.037	13.023	(0.992)	47602	0.78348	66
23 Indeno(1,2,3-cd)pyrene	276	14.723	14.703	(1.120)	24814	0.38302	32(M)
24 Dibenzo(a,h)anthracene	278	14.747	14.732	(1.122)	11132	0.18247	15
25 Benzo(g,h,i)perylene	276	15.164	15.144	(1.154)	33986	0.54483	46

QC Flag Legend

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

Data File: 1DD29026.D

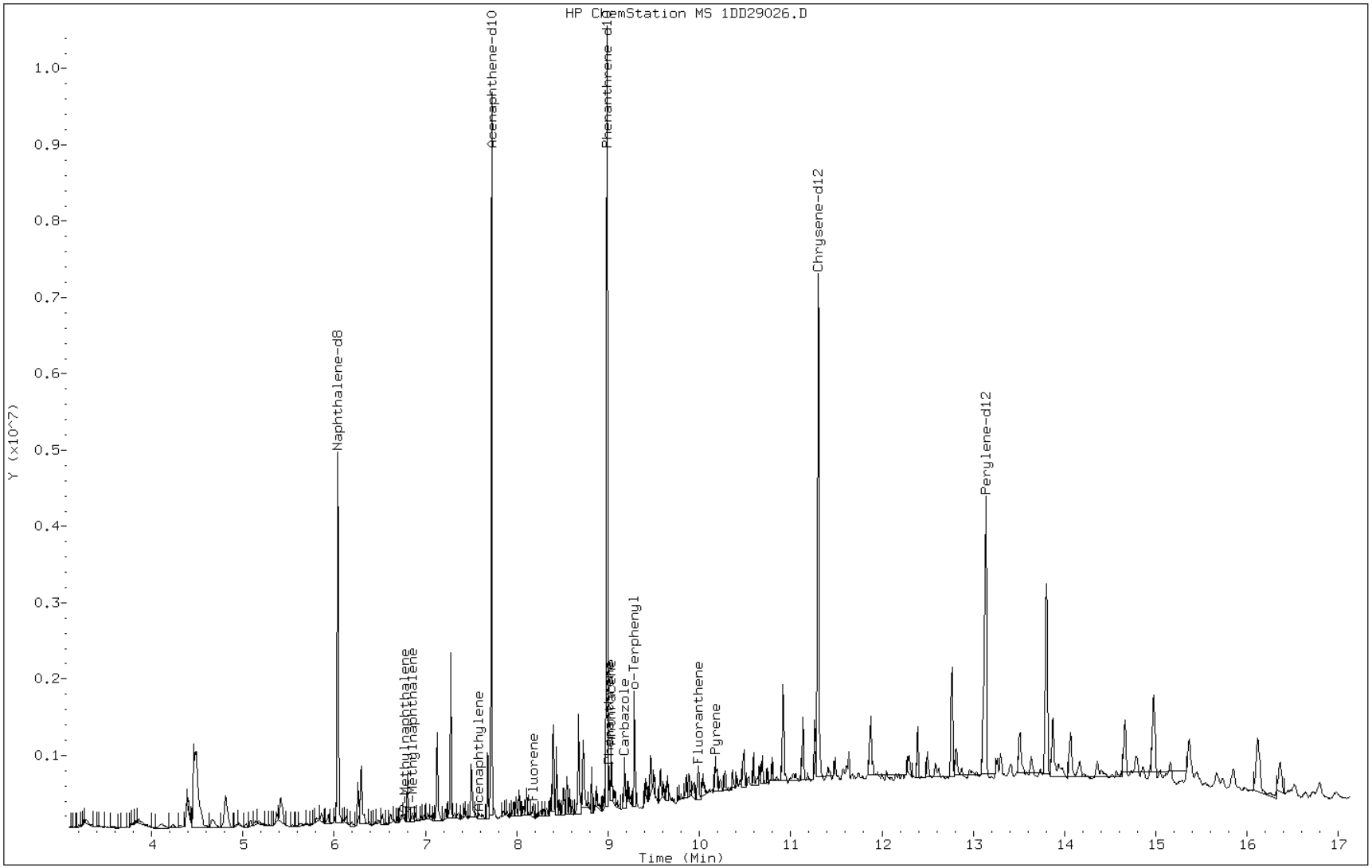
Date: 29-APR-2013 19:55

Client ID: CV0773A-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a

Operator: SCC



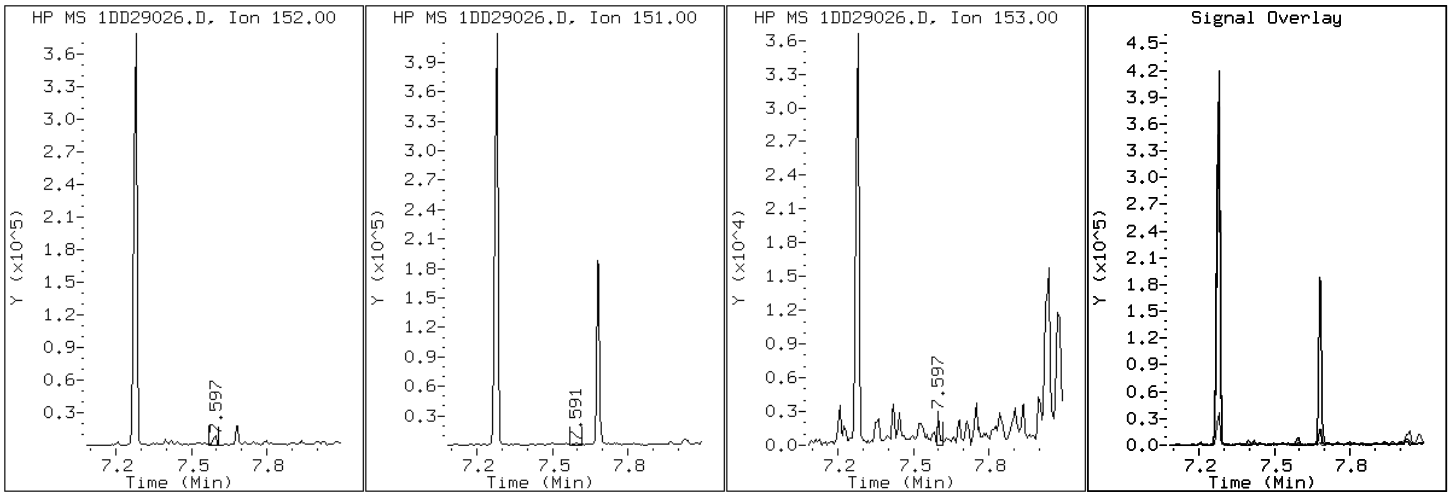
Data File: 1DD29026.D

Date: 29-APR-2013 19:55

Client ID: CV0773A-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a Operator: SCC

5 Acenaphthylene



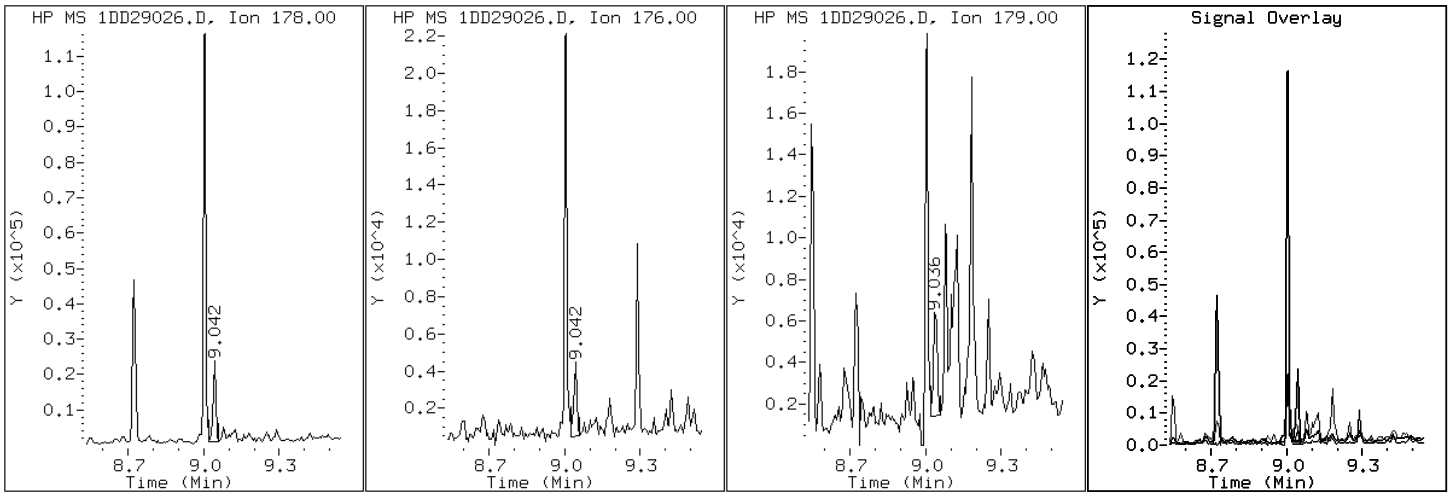
Data File: 1DD29026.D

Date: 29-APR-2013 19:55

Client ID: CV0773A-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a Operator: SCC

11 Anthracene



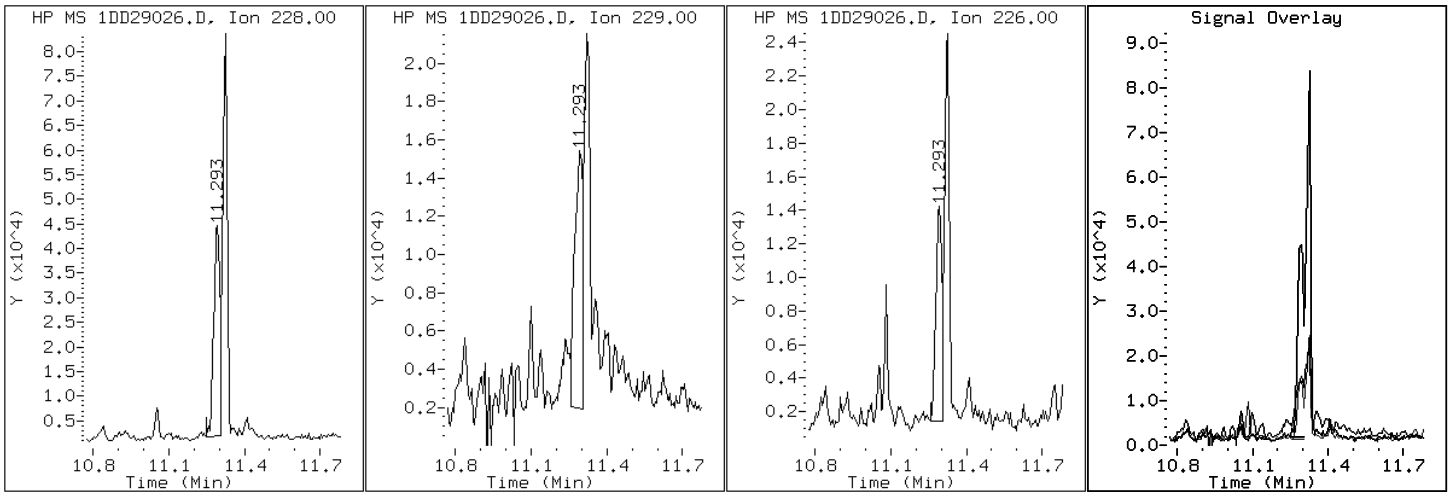
Data File: 1DD29026.D

Date: 29-APR-2013 19:55

Client ID: CV0773A-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a Operator: SCC

16 Benzo(a)anthracene



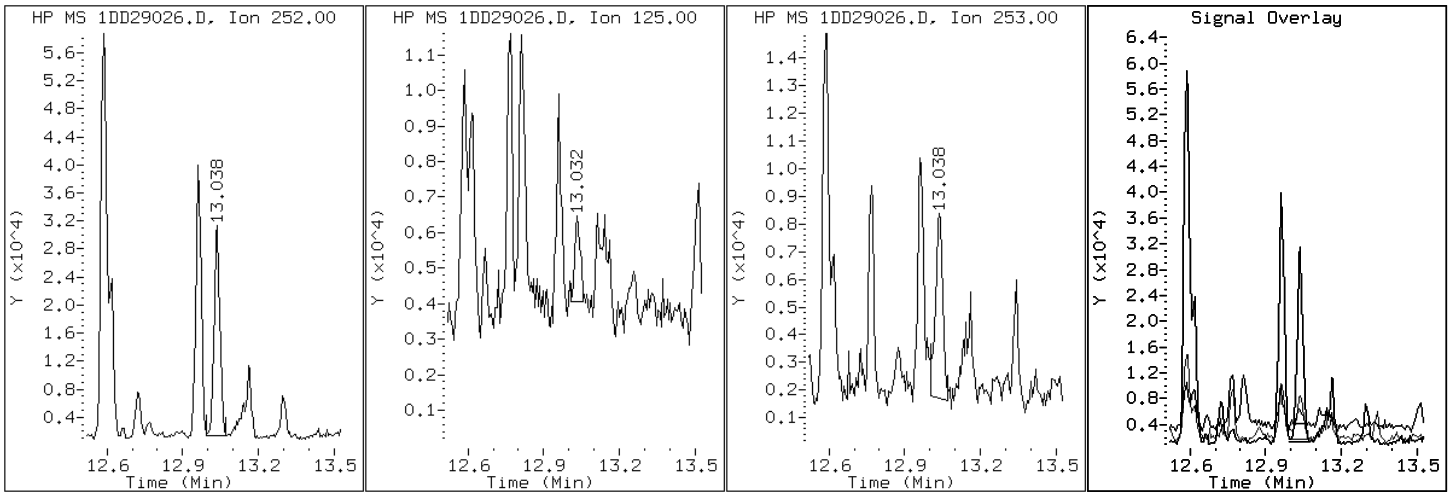
Data File: 1DD29026.D

Date: 29-APR-2013 19:55

Client ID: CV0773A-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a Operator: SCC

21 Benzo(a)pyrene



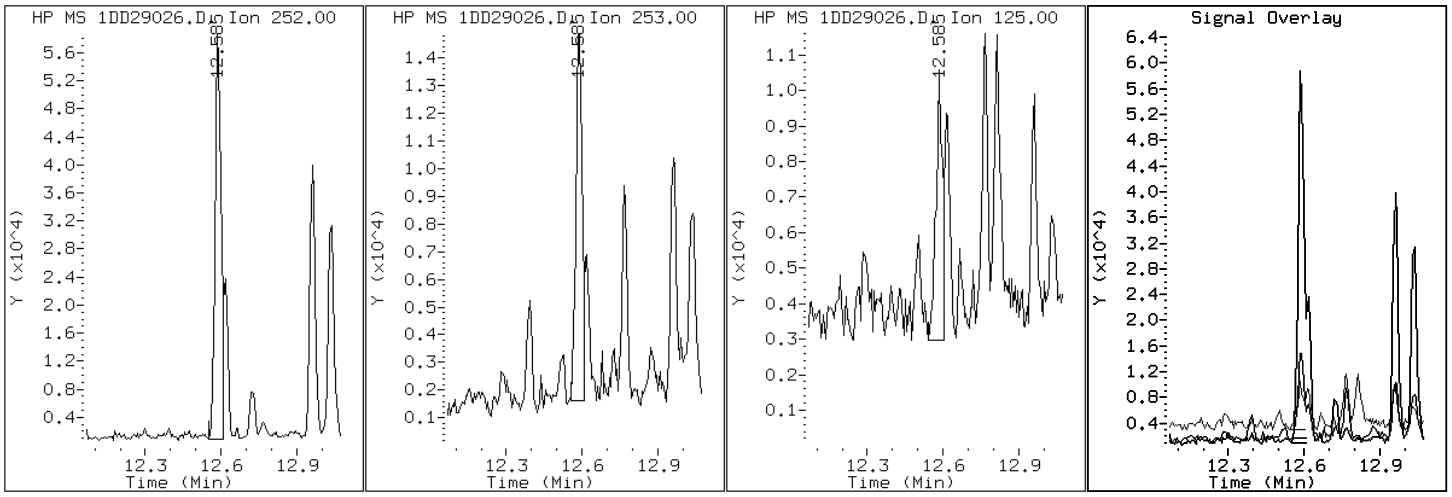
Data File: 1DD29026.D

Date: 29-APR-2013 19:55

Client ID: CV0773A-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a Operator: SCC

19 Benzo(b)fluoranthene



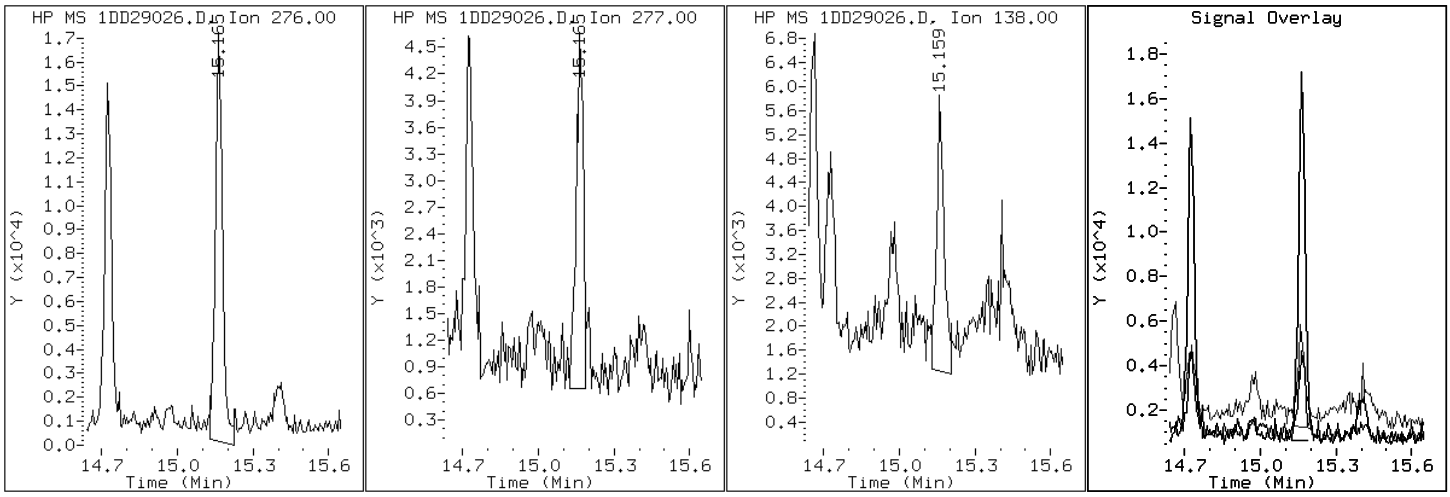
Data File: 1DD29026.D

Date: 29-APR-2013 19:55

Client ID: CV0773A-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a Operator: SCC

25 Benzo(g,h,i)perylene



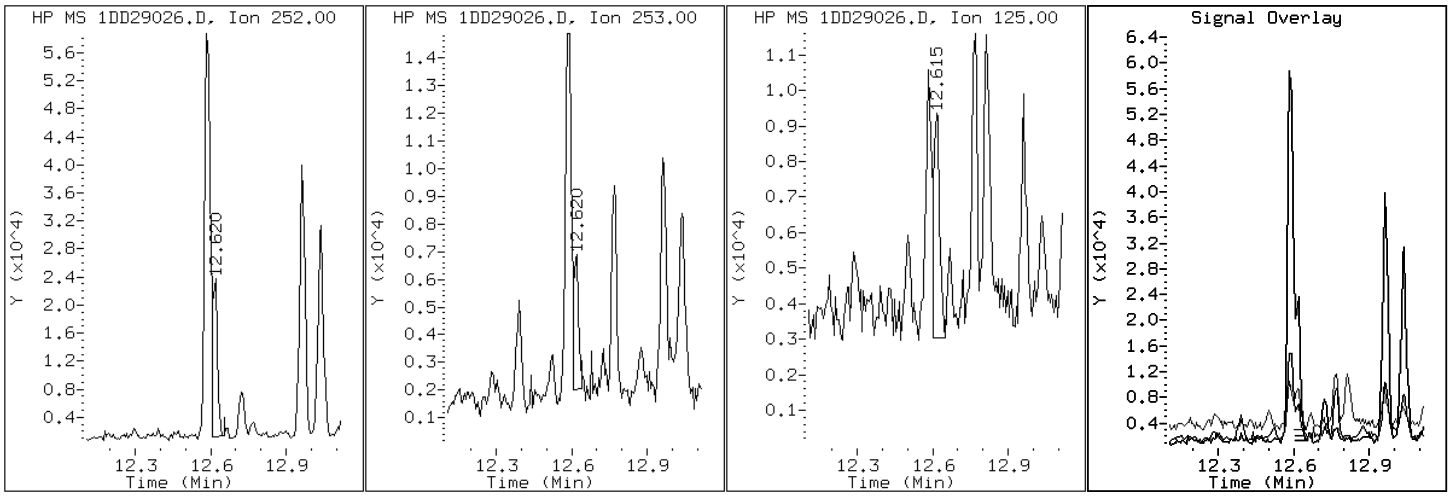
Data File: 1DD29026.D

Date: 29-APR-2013 19:55

Client ID: CV0773A-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD29026.D

Date: 29-APR-2013 19:55

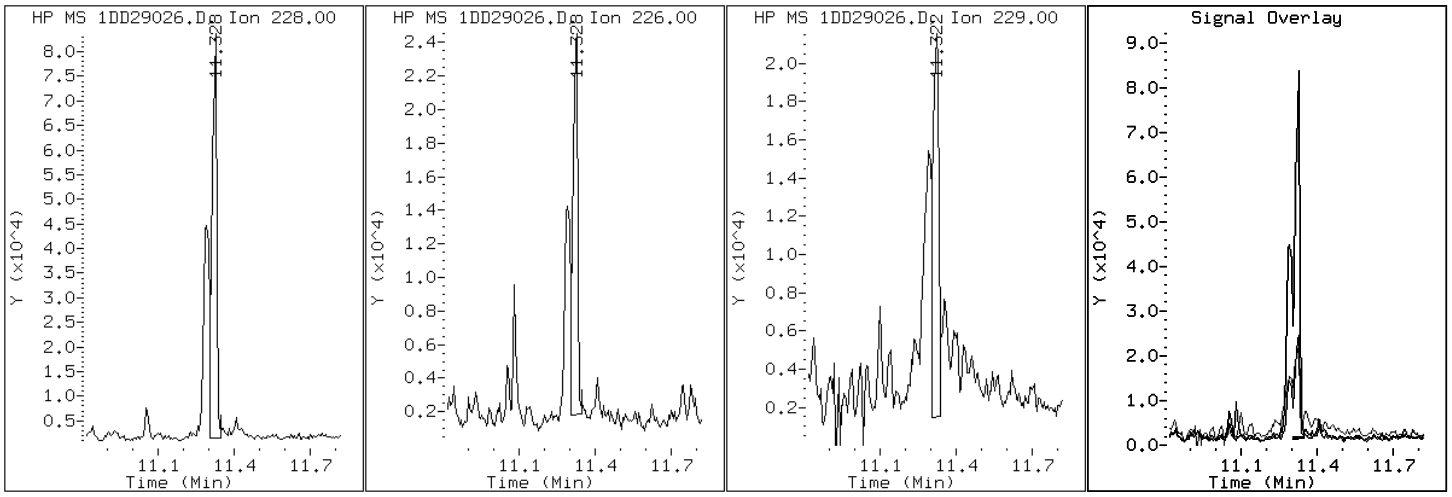
Client ID: CV0773A-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a

Operator: SCC

18 Chrysene



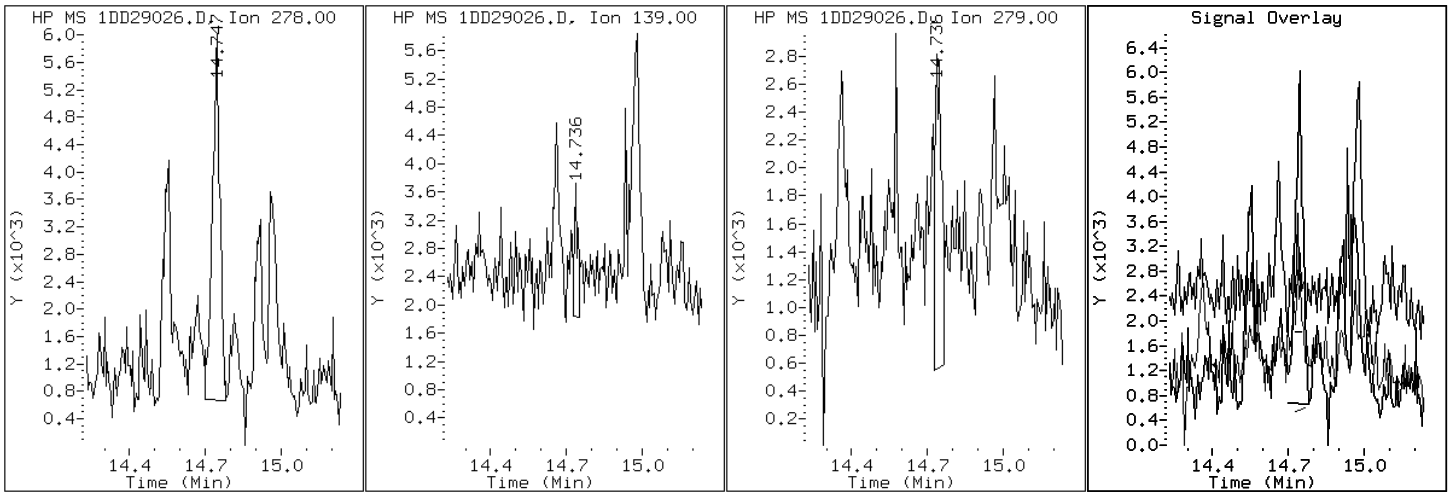
Data File: 1DD29026.D

Date: 29-APR-2013 19:55

Client ID: CV0773A-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a Operator: SCC

24 Dibenzo(a,h)anthracene



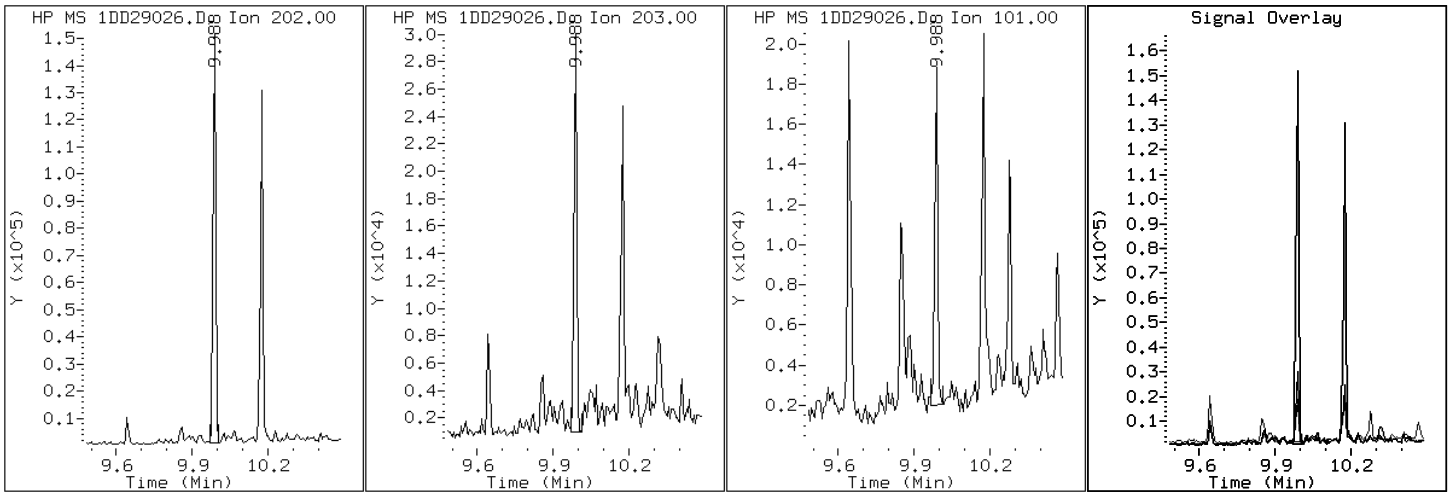
Data File: 1DD29026.D

Date: 29-APR-2013 19:55

Client ID: CV0773A-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a Operator: SCC

14 Fluoranthene



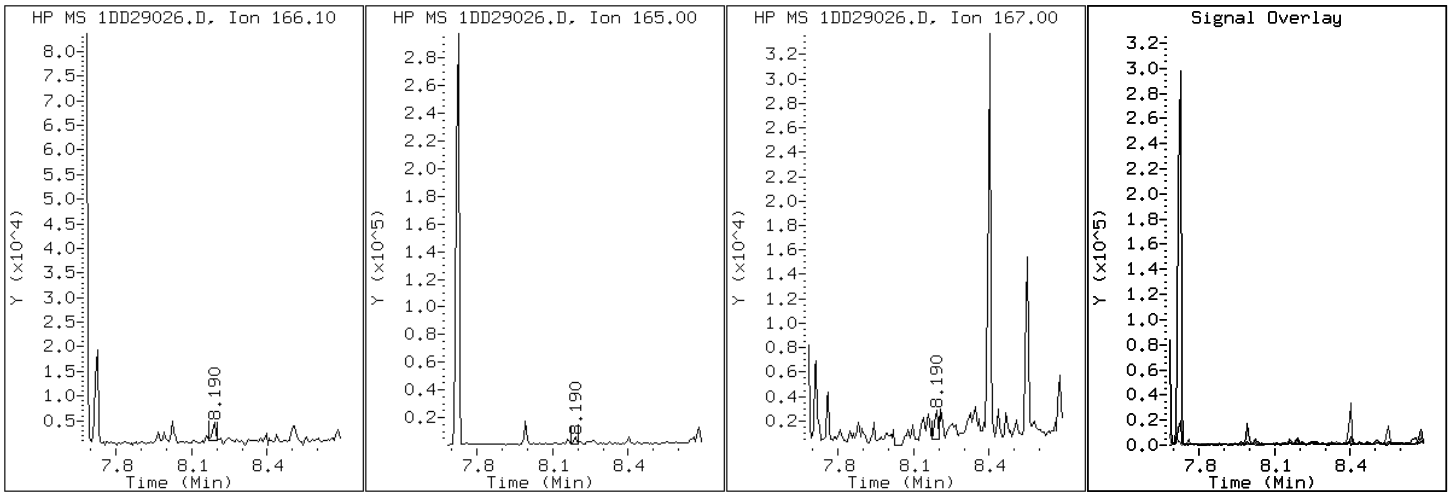
Data File: 1DD29026.D

Date: 29-APR-2013 19:55

Client ID: CV0773A-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a Operator: SCC

8 Fluorene



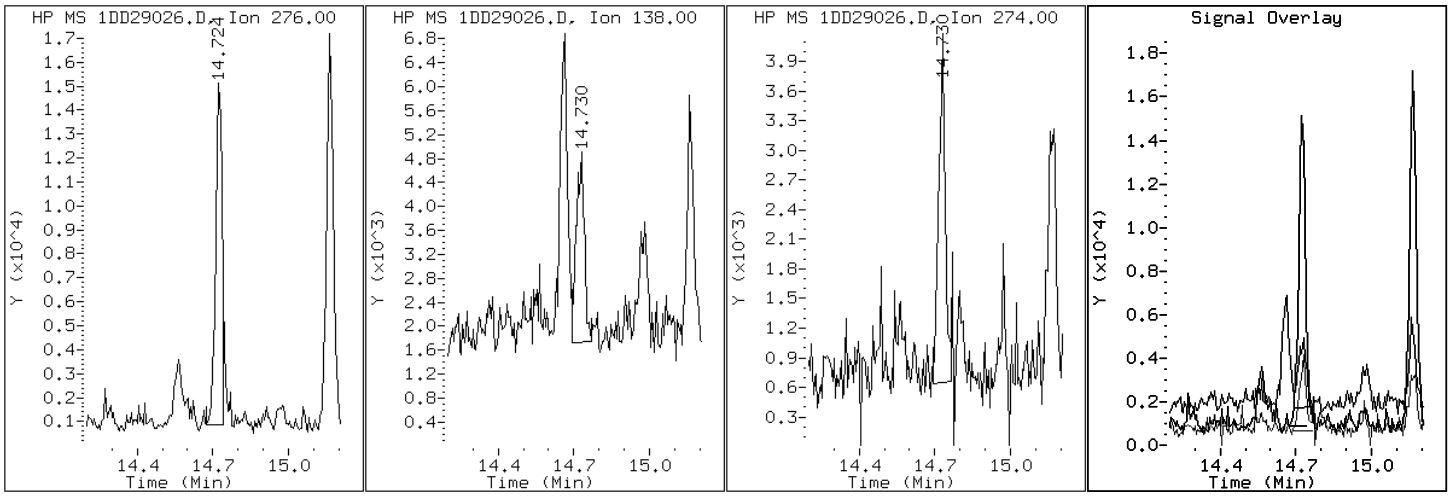
Data File: 1DD29026.D

Date: 29-APR-2013 19:55

Client ID: CV0773A-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a Operator: SCC

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



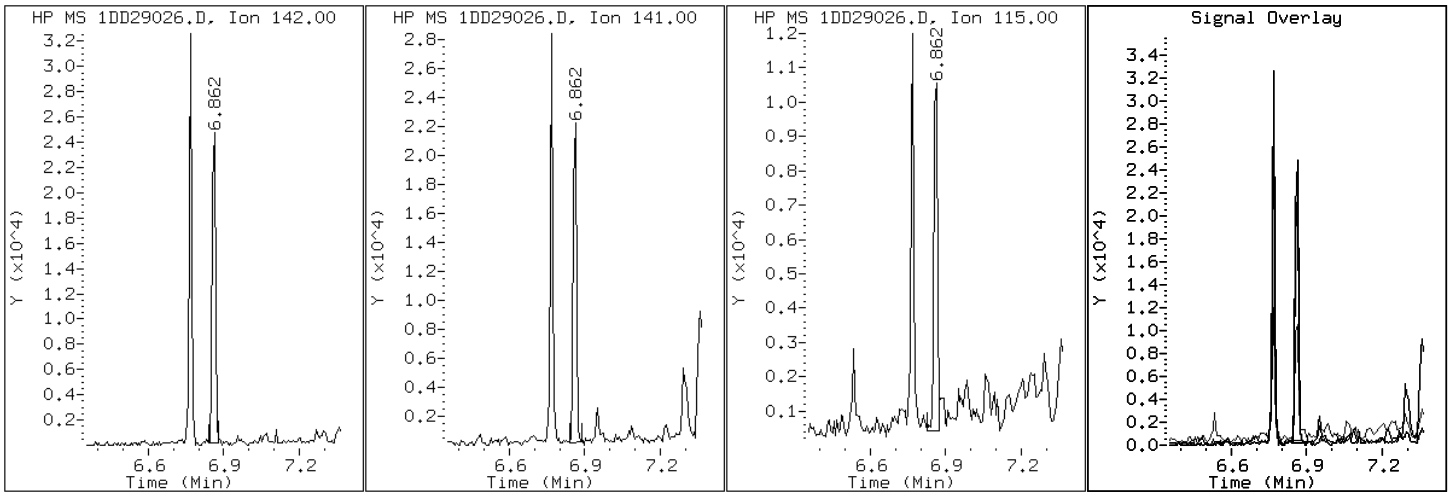
Data File: 1DD29026.D

Date: 29-APR-2013 19:55

Client ID: CV0773A-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a Operator: SCC

4 1-Methylnaphthalene



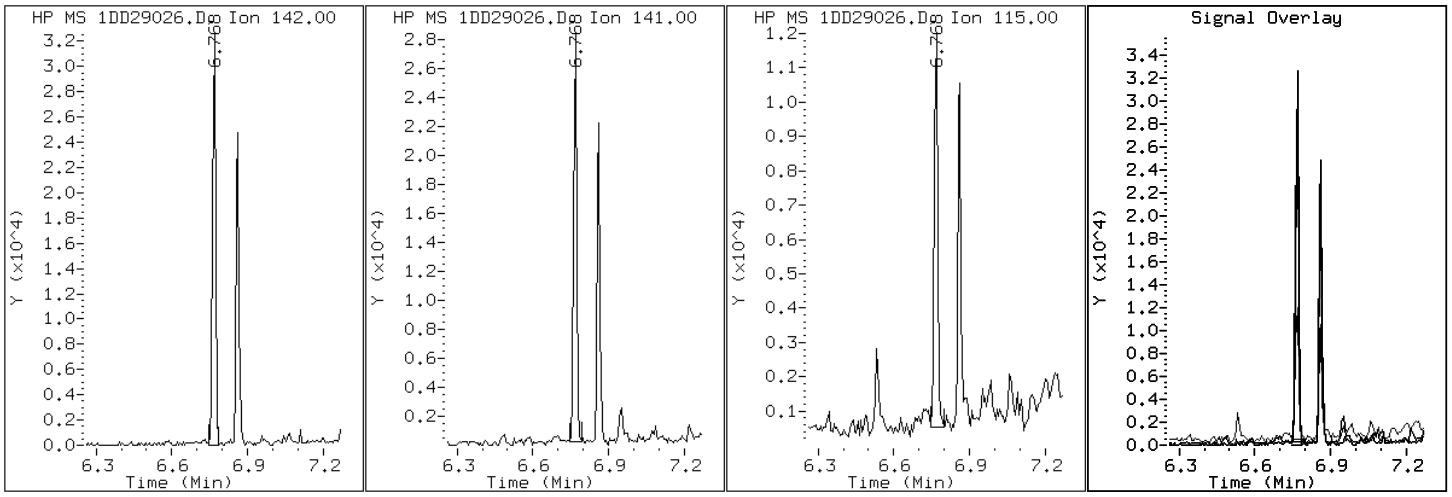
Data File: 1DD29026.D

Date: 29-APR-2013 19:55

Client ID: CV0773A-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a Operator: SCC

3 2-Methylnaphthalene



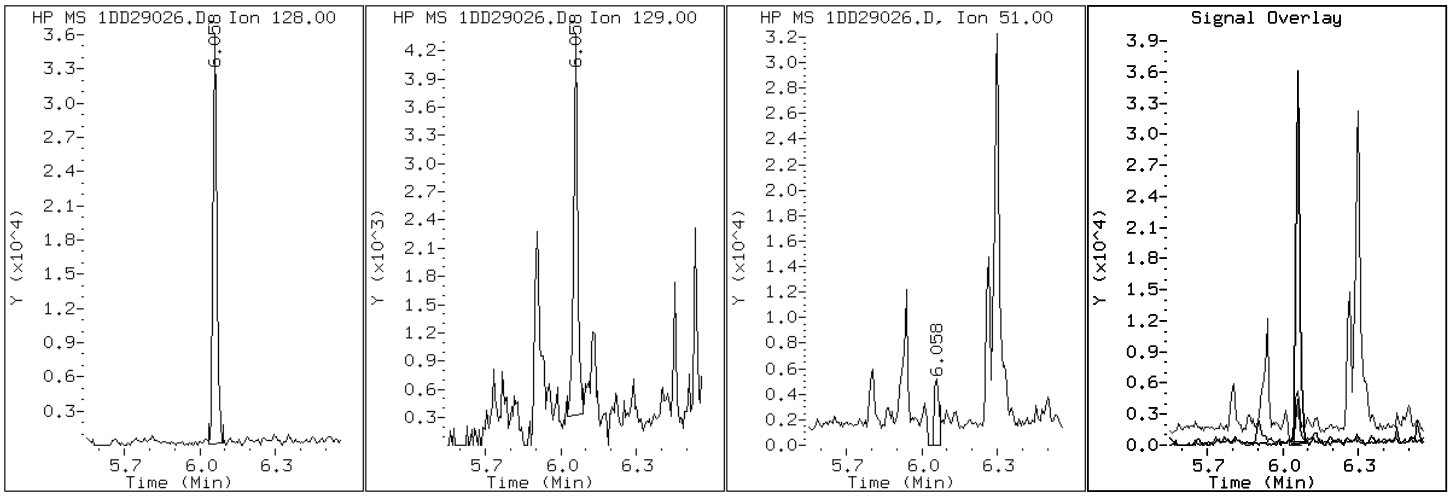
Data File: 1DD29026.D

Date: 29-APR-2013 19:55

Client ID: CV0773A-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a Operator: SCC

2 Naphthalene



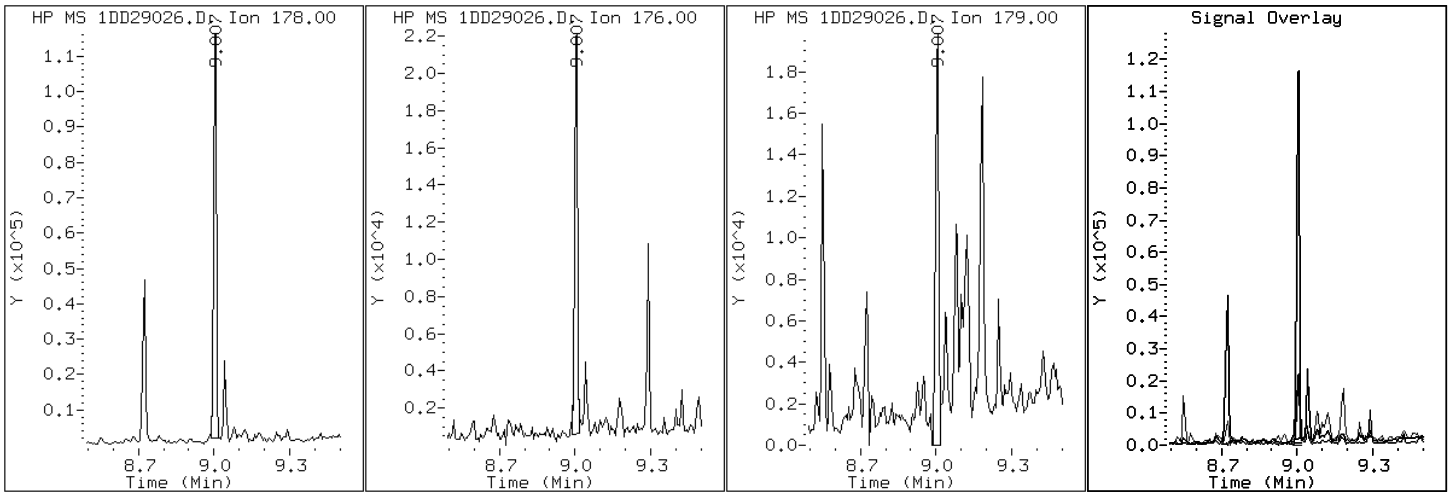
Data File: 1DD29026.D

Date: 29-APR-2013 19:55

Client ID: CV0773A-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a Operator: SCC

10 Phenanthrene



Data File: 1DD29026.D

Date: 29-APR-2013 19:55

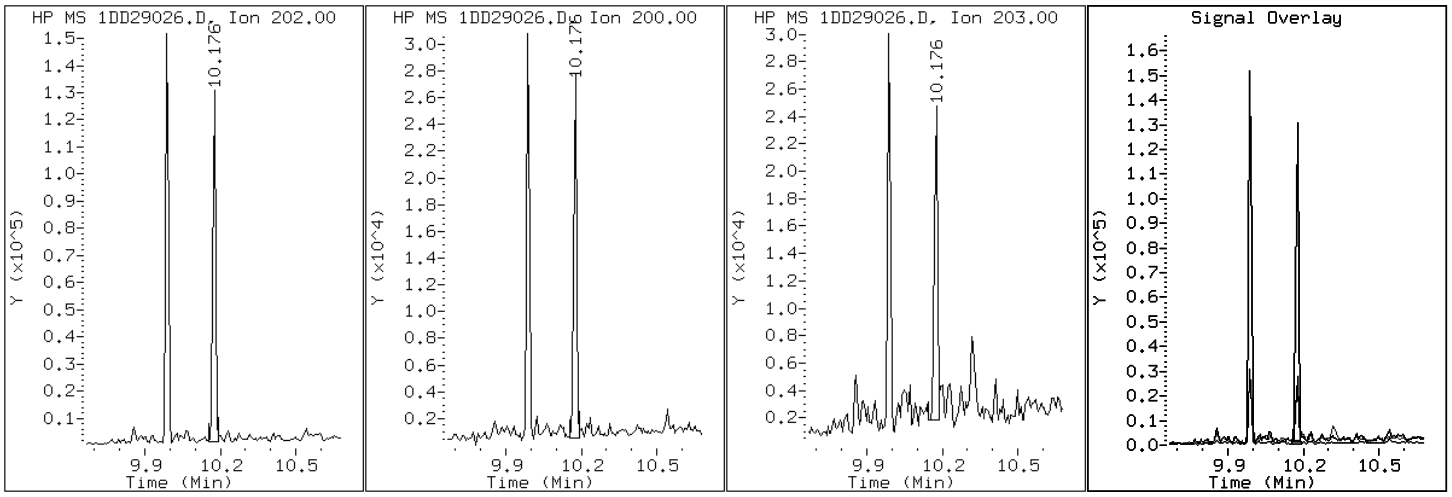
Client ID: CV0773A-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-5-a

Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD29026.D
Inj. Date and Time: 29-APR-2013 19:55
Instrument ID: BSMSD.i
Client ID: CV0773A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/30/2013

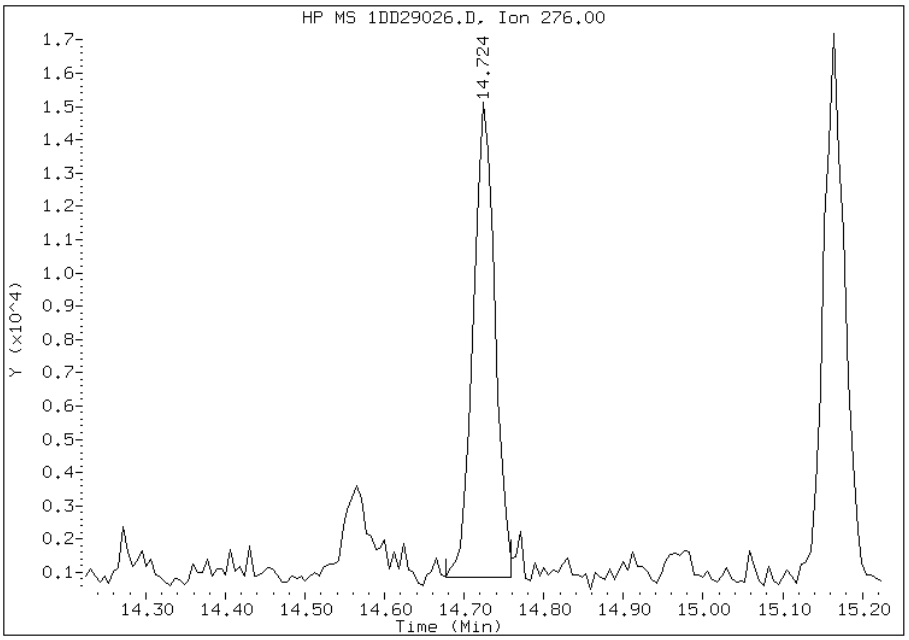
Processing Integration Results

RT: 14.72

Response: 26823

Amount: 0

Conc: 35



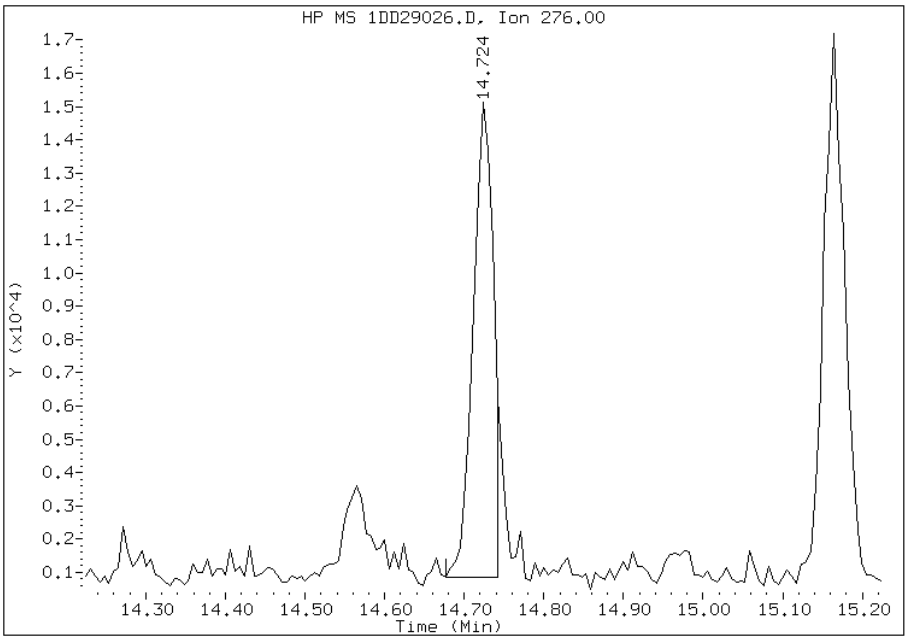
Manual Integration Results

RT: 14.72

Response: 24814

Amount: 0

Conc: 32



Manually Integrated By: cantins
Modification Date: 30-Apr-2013 15:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV0773B-CS | Lab Sample ID: 680-89695-6

Matrix: Solid | Lab File ID: 1DD29027.D

Analysis Method: 8270C LL | Date Collected: 04/23/2013 09:35

Extract. Method: 3546 | Date Extracted: 04/25/2013 12:29

Sample wt/vol: 14.97(g) | Date Analyzed: 04/29/2013 20:17

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.: 136926 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	33	J	210	26
120-12-7	Anthracene	46		43	22
56-55-3	Benzo[a]anthracene	210		41	20
50-32-8	Benzo[a]pyrene	170		53	27
205-99-2	Benzo[b]fluoranthene	380		63	31
191-24-2	Benzo[g,h,i]perylene	110		100	23
207-08-9	Benzo[k]fluoranthene	96		41	19
218-01-9	Chrysene	420		46	23
53-70-3	Dibenz(a,h)anthracene	48	J	100	21
206-44-0	Fluoranthene	270		100	21
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	77	J	100	37
90-12-0	1-Methylnaphthalene	250		210	23
91-57-6	2-Methylnaphthalene	220		210	37
91-20-3	Naphthalene	140	J	210	23
85-01-8	Phenanthrene	300		41	20
129-00-0	Pyrene	230		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\1DD29027.D
Lab Smp Id: 680-89695-A-6-A Client Smp ID: CV0773B-CS
Inj Date : 29-APR-2013 20:17
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89695-a-6-a
Misc Info : 680-89695-A-6-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\dFASTPAHi.m
Meth Date : 29-Apr-2013 11:13 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.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	14.970	Weight Extracted
M	22.000	% 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	6.045	6.037	(1.000)	2657297	40.0000	
* 6 Acenaphthene-d10	164	7.725	7.717	(1.000)	1732714	40.0000	
* 9 Phenanthrene-d10	188	8.989	8.980	(1.000)	2921977	40.0000	
$ 13 o-Terphenyl	230	9.288	9.286	(1.033)	58892	1.33765	460
* 17 Chrysene-d12	240	11.304	11.295	(1.000)	3115050	40.0000	
* 22 Perylene-d12	264	13.143	13.117	(1.000)	2523695	40.0000	
2 Naphthalene	128	6.063	6.054	(1.003)	26241	0.39730	140
3 2-Methylnaphthalene	142	6.768	6.765	(1.120)	27755	0.65097	220
4 1-Methylnaphthalene	142	6.862	6.859	(1.135)	29363	0.72927	250
5 Acenaphthylene	152	7.590	7.588	(0.983)	7071	0.09642	33
8 Fluorene	166	8.190	8.187	(1.060)	1853	0.03457	12(Q)
10 Phenanthrene	178	9.006	8.998	(1.002)	71198	0.88461	300
11 Anthracene	178	9.042	9.039	(1.006)	10708	0.13405	46
12 Carbazole	167	9.188	9.180	(1.022)	7917	0.11236	38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	9.987	9.985	(1.111)	65888	0.79553	270
15 Pyrene	202	10.175	10.173	(0.900)	62745	0.67075	230
16 Benzo(a)anthracene	228	11.292	11.278	(0.999)	55668	0.61811	210(Q)
18 Chrysene	228	11.327	11.319	(1.002)	102929	1.21887	420(Q)
19 Benzo(b)fluoranthene	252	12.584	12.570	(0.958)	69083	1.09582	380
20 Benzo(k)fluoranthene	252	12.614	12.611	(0.960)	18575	0.27968	96(QH)
21 Benzo(a)pyrene	252	13.037	13.023	(0.992)	31524	0.49767	170
23 Indeno(1,2,3-cd)pyrene	276	14.717	14.703	(1.120)	15238	0.22561	77(M)
24 Dibenzo(a,h)anthracene	278	14.741	14.732	(1.122)	8972	0.14106	48
25 Benzo(g,h,i)perylene	276	15.158	15.144	(1.153)	21134	0.32497	110

QC Flag Legend

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

Data File: 1DD29027.D

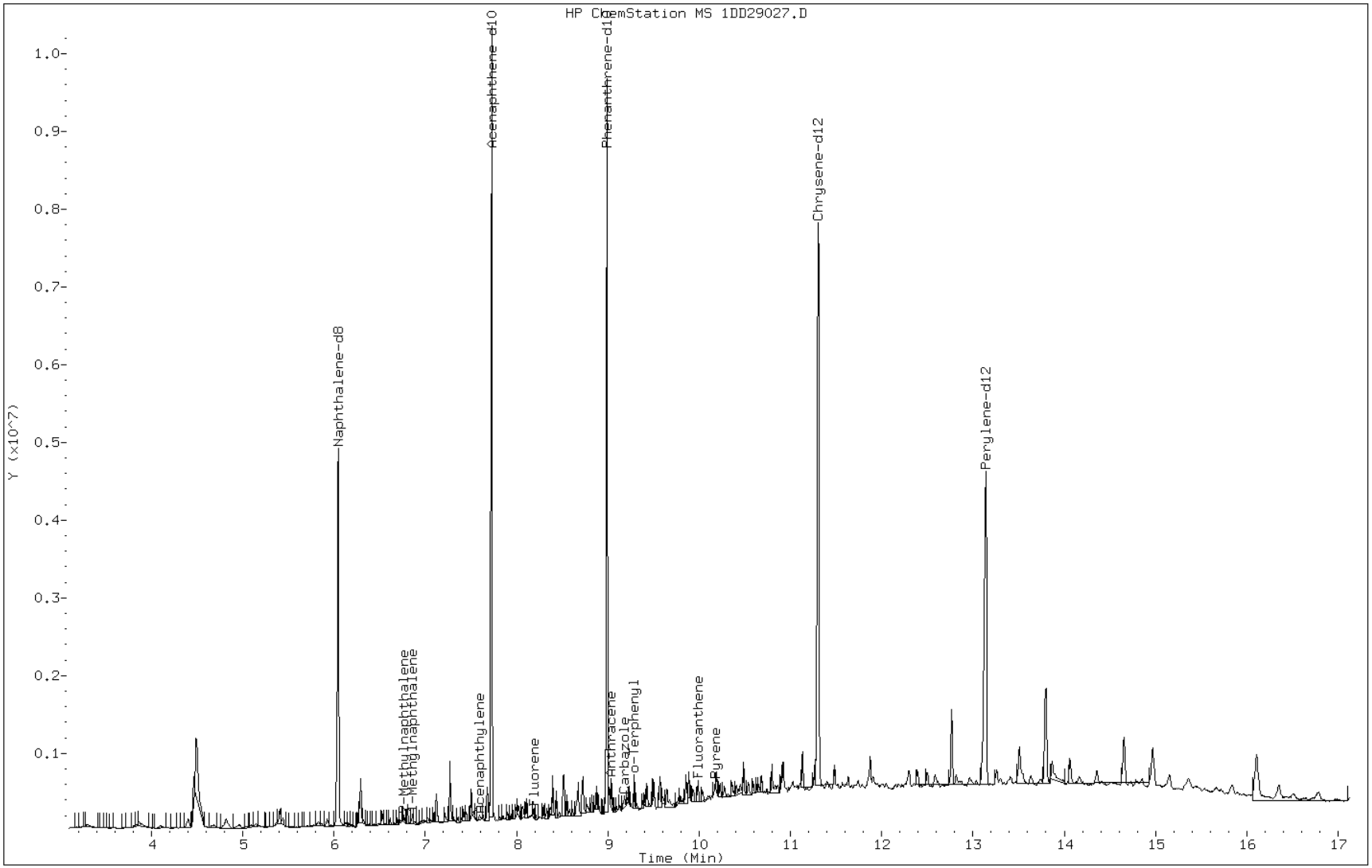
Date: 29-APR-2013 20:17

Client ID: CV0773B-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-6-a

Operator: SCC



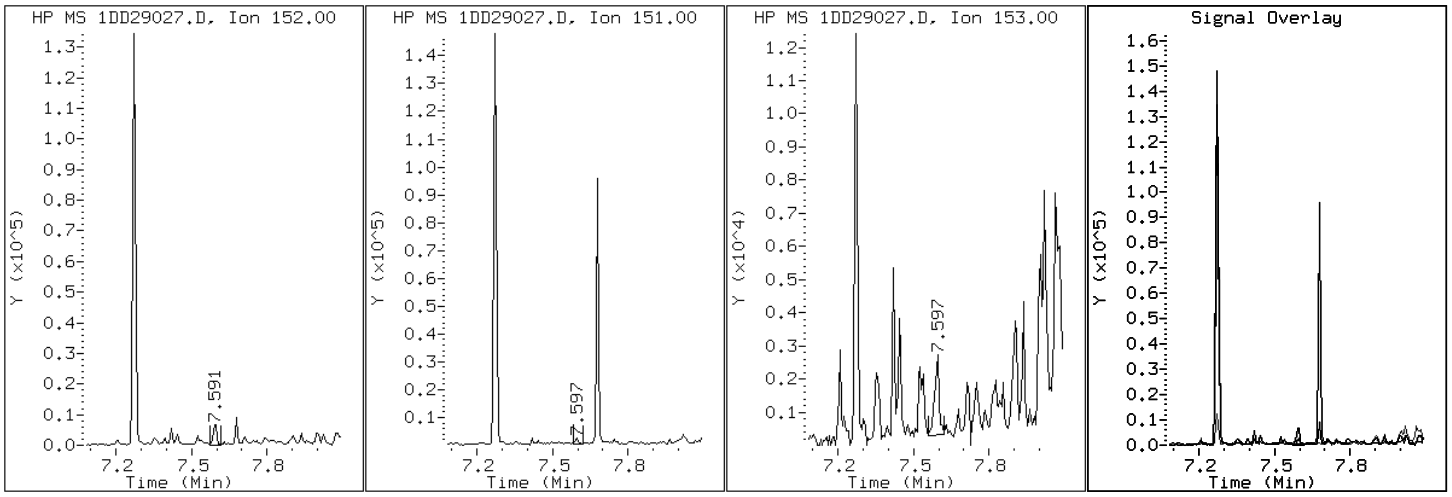
Data File: 1DD29027.D

Date: 29-APR-2013 20:17

Client ID: CV0773B-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-6-a Operator: SCC

5 Acenaphthylene



Data File: 1DD29027.D

Date: 29-APR-2013 20:17

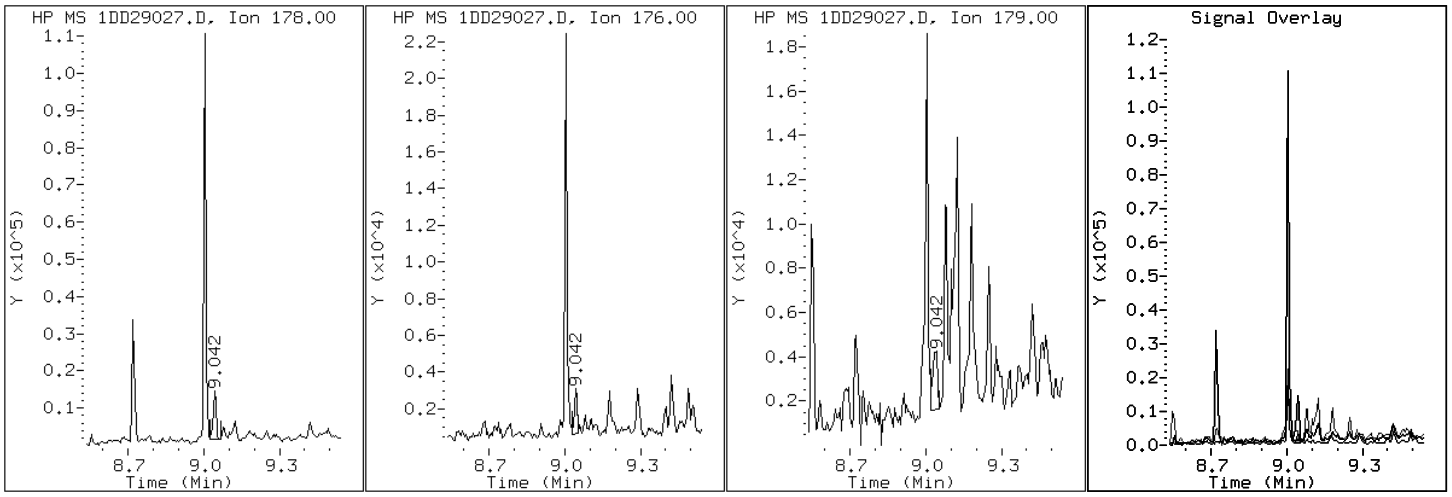
Client ID: CV0773B-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-6-a

Operator: SCC

11 Anthracene



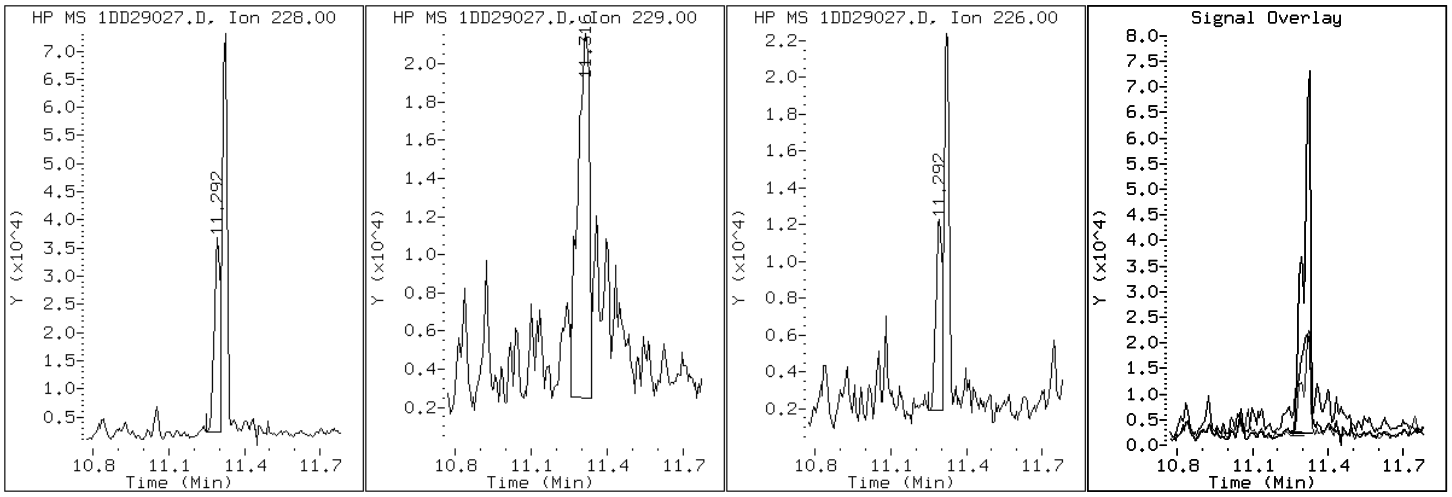
Data File: 1DD29027.D

Date: 29-APR-2013 20:17

Client ID: CV0773B-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-6-a Operator: SCC

16 Benzo(a)anthracene



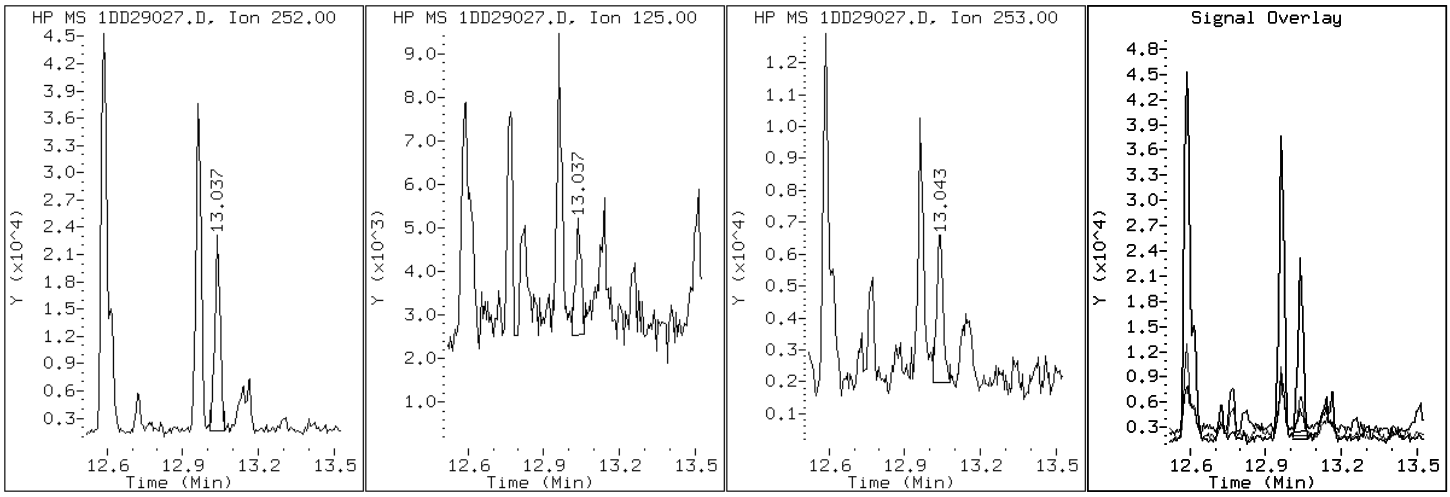
Data File: 1DD29027.D

Date: 29-APR-2013 20:17

Client ID: CV0773B-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-6-a Operator: SCC

21 Benzo(a)pyrene



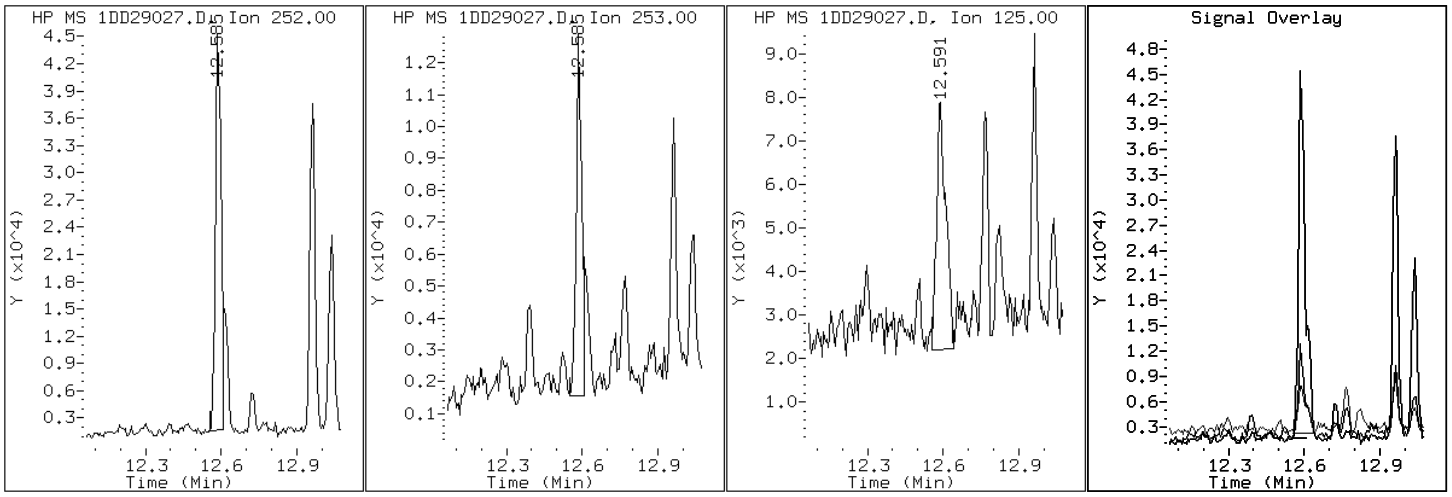
Data File: 1DD29027.D

Date: 29-APR-2013 20:17

Client ID: CV0773B-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-6-a Operator: SCC

19 Benzo(b)fluoranthene



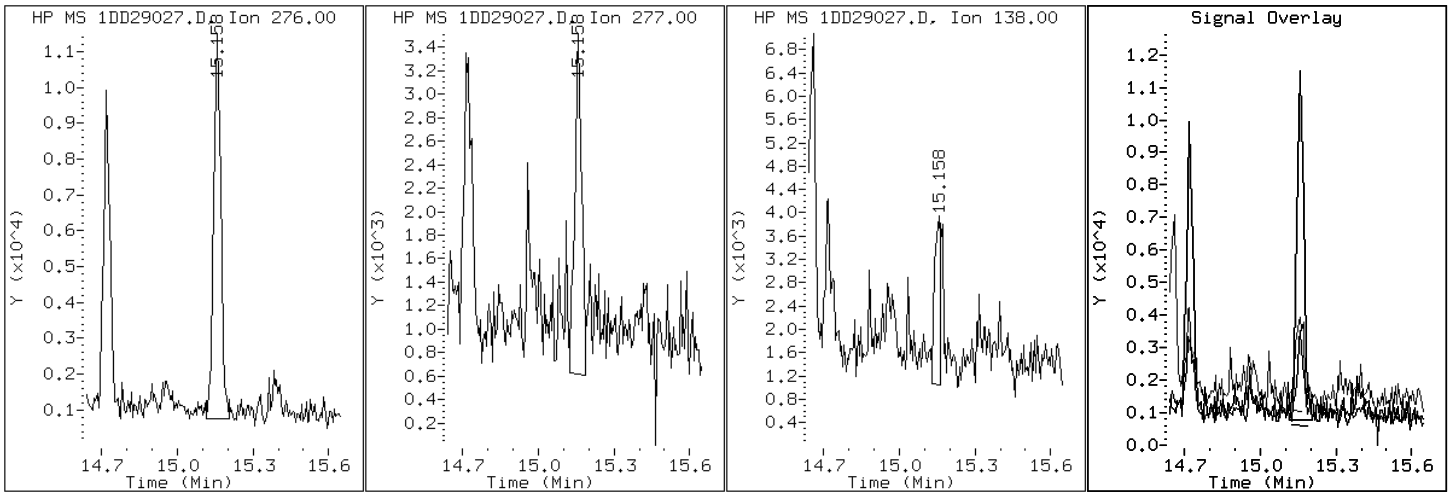
Data File: 1DD29027.D

Date: 29-APR-2013 20:17

Client ID: CV0773B-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-6-a Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD29027.D

Date: 29-APR-2013 20:17

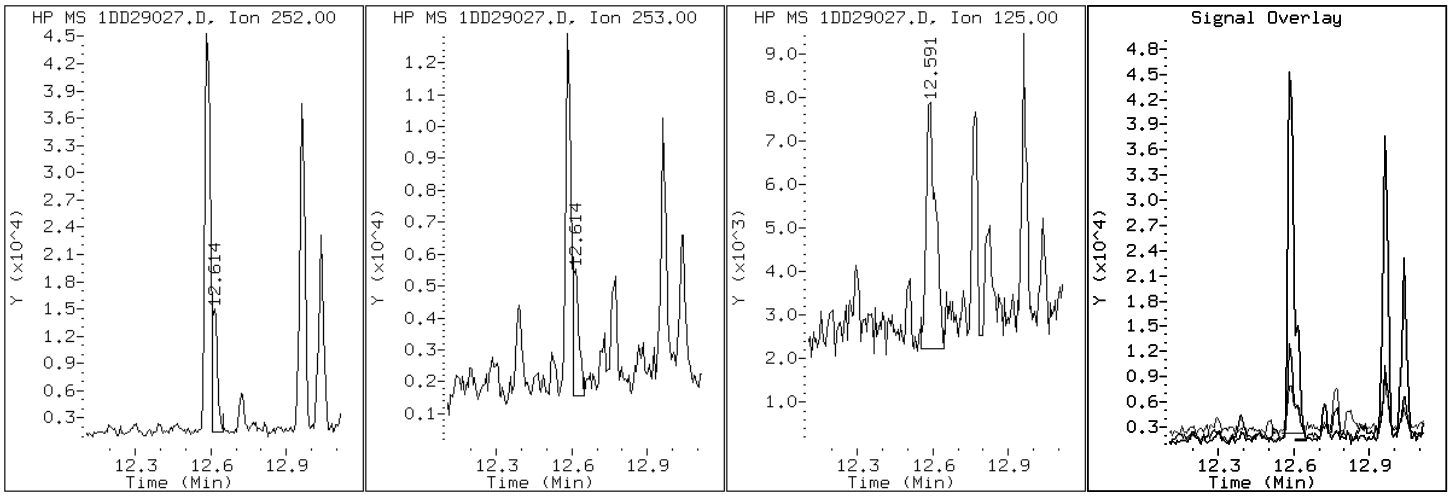
Client ID: CV0773B-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-6-a

Operator: SCC

20 Benzo(k)fluoranthene



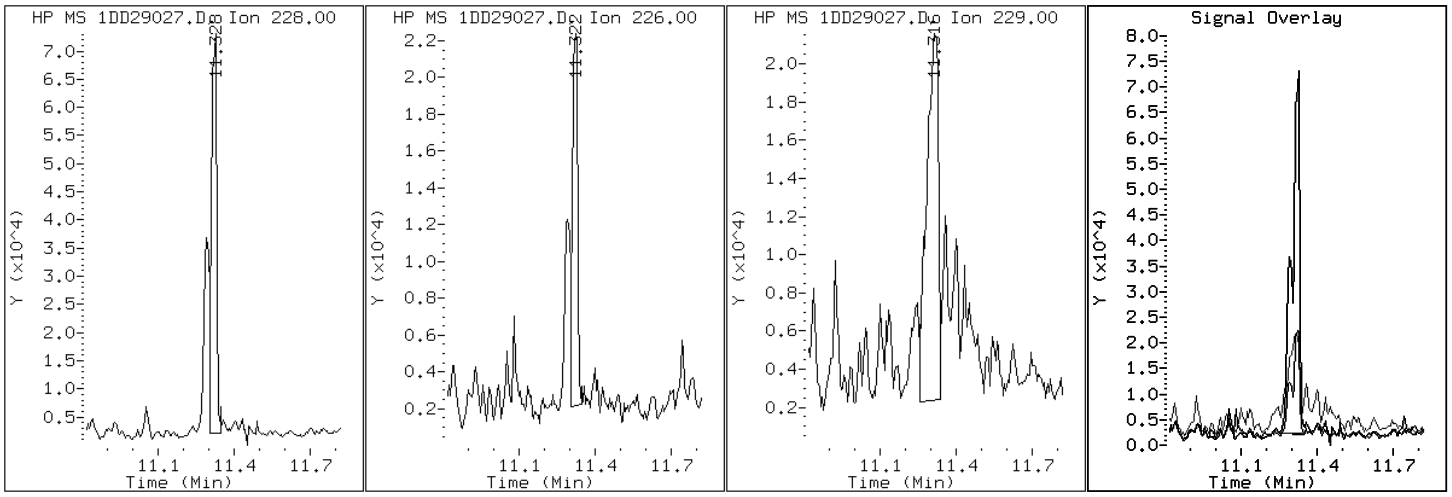
Data File: 1DD29027.D

Date: 29-APR-2013 20:17

Client ID: CV0773B-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-6-a Operator: SCC

18 Chrysene



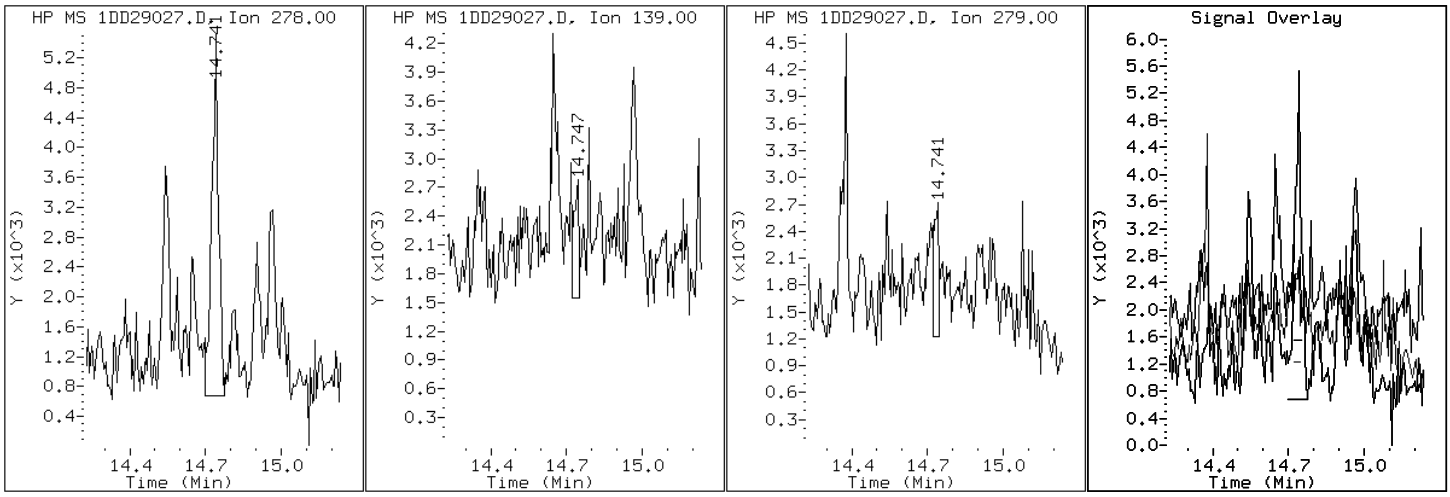
Data File: 1DD29027.D

Date: 29-APR-2013 20:17

Client ID: CV0773B-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-6-a Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD29027.D

Date: 29-APR-2013 20:17

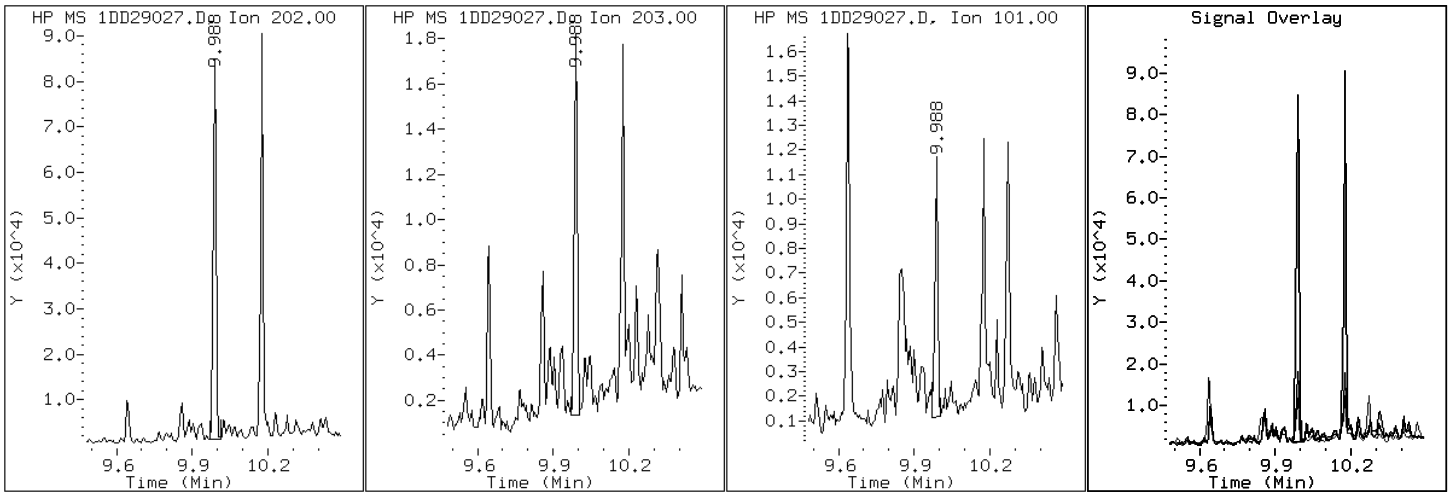
Client ID: CV0773B-CS

Instrument: BSMSD.i

Sample Info: 680-89695-a-6-a

Operator: SCC

14 Fluoranthene



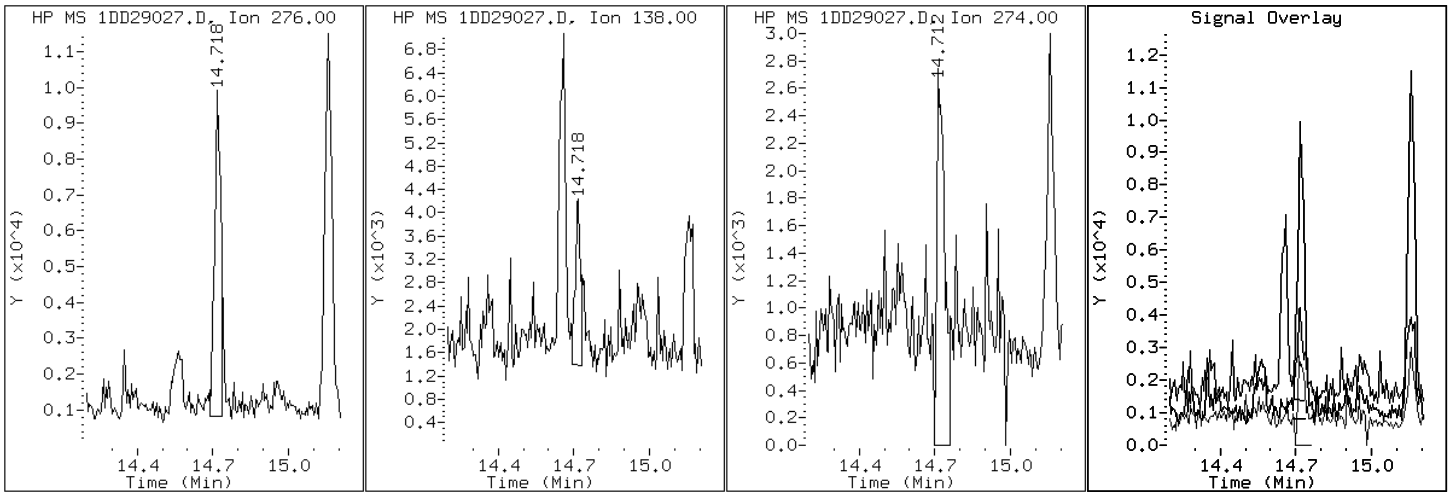
Data File: 1DD29027.D

Date: 29-APR-2013 20:17

Client ID: CV0773B-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-6-a Operator: SCC

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



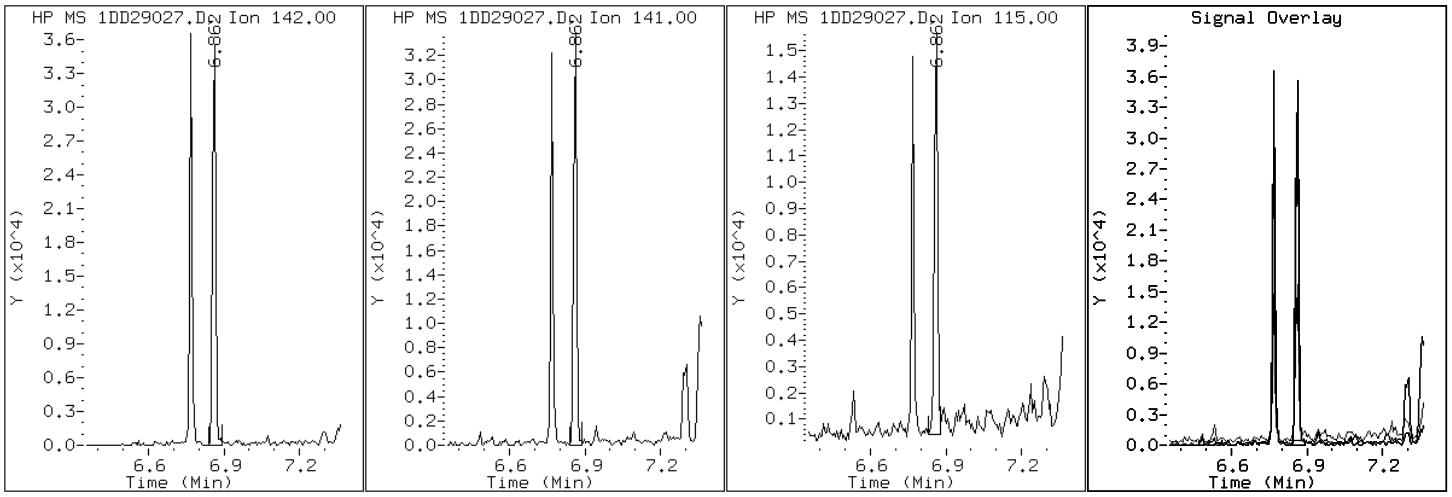
Data File: 1DD29027.D

Date: 29-APR-2013 20:17

Client ID: CV0773B-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-6-a Operator: SCC

4 1-Methylnaphthalene



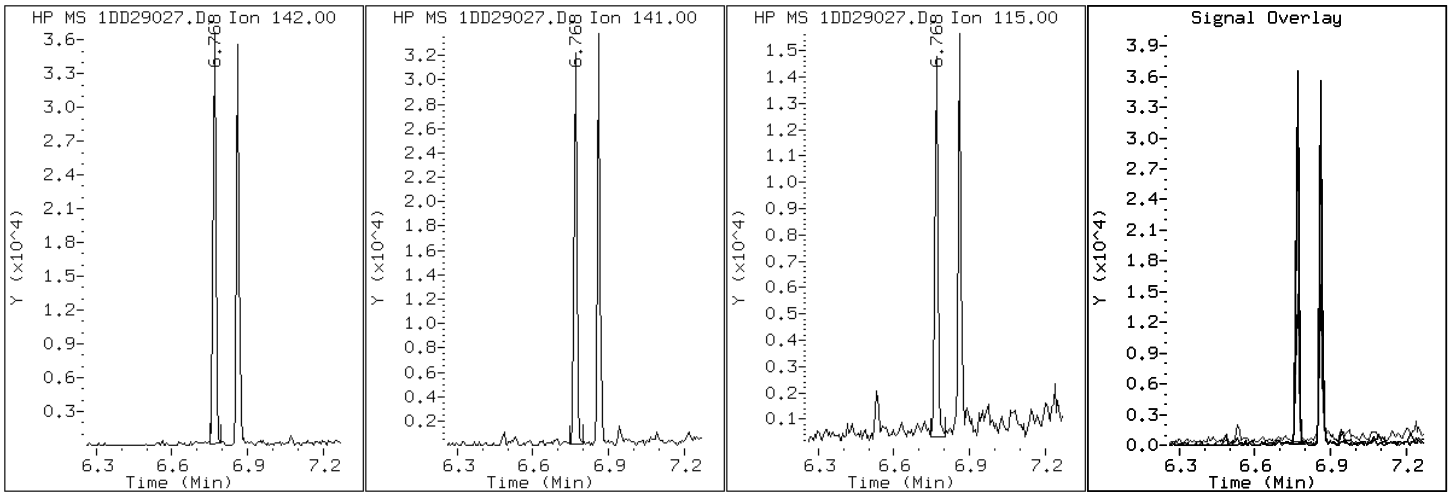
Data File: 1DD29027.D

Date: 29-APR-2013 20:17

Client ID: CV0773B-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-6-a Operator: SCC

3 2-Methylnaphthalene



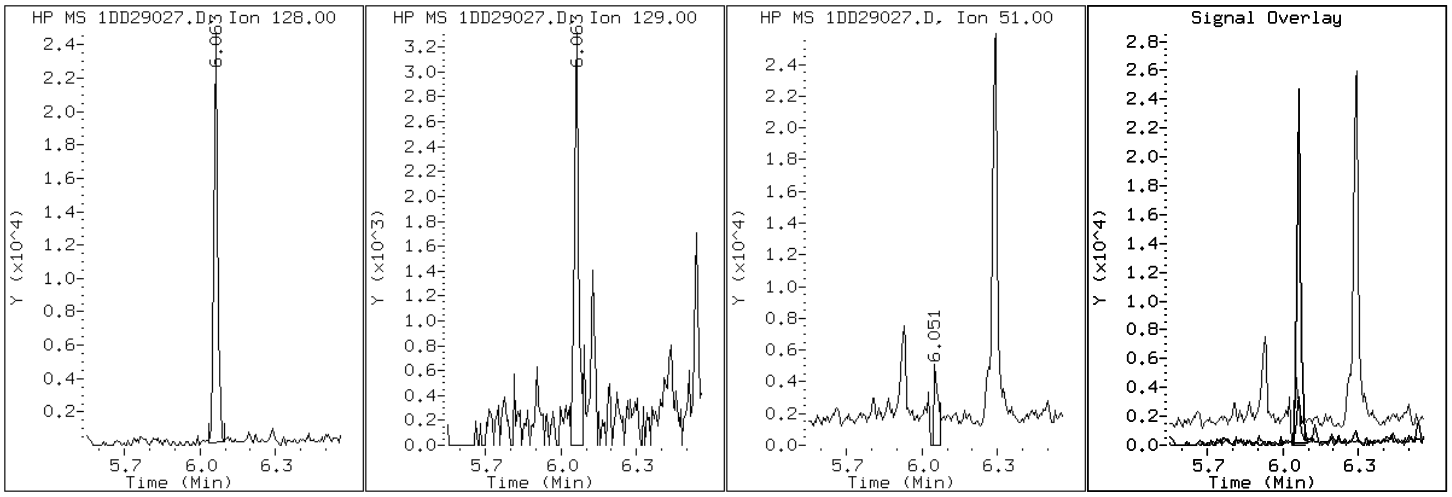
Data File: 1DD29027.D

Date: 29-APR-2013 20:17

Client ID: CV0773B-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-6-a Operator: SCC

2 Naphthalene



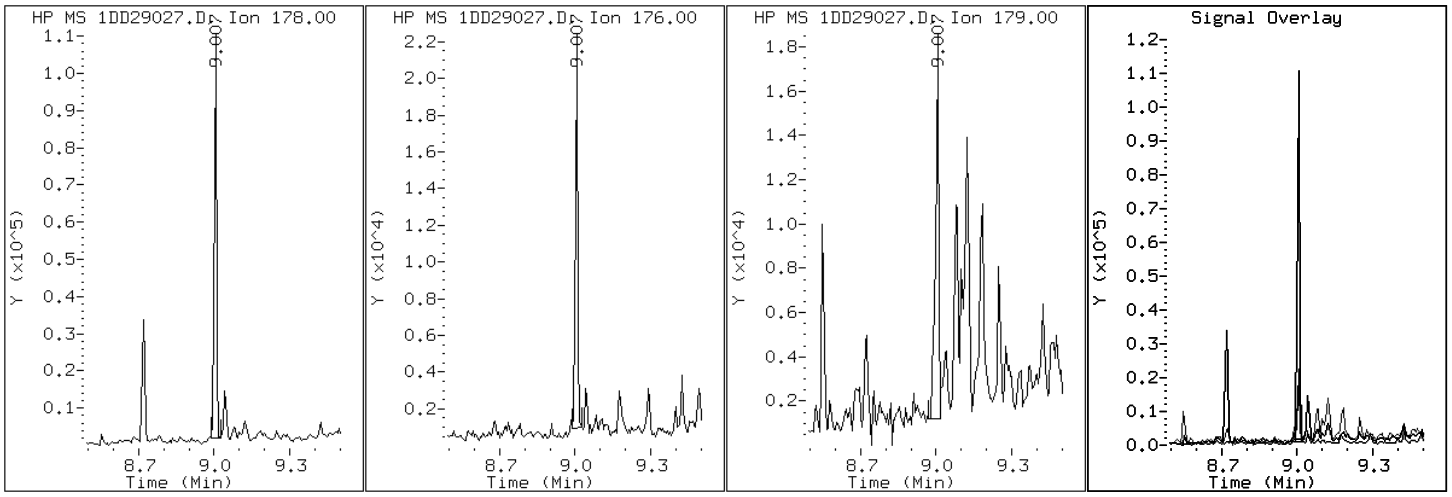
Data File: 1DD29027.D

Date: 29-APR-2013 20:17

Client ID: CV0773B-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-6-a Operator: SCC

10 Phenanthrene



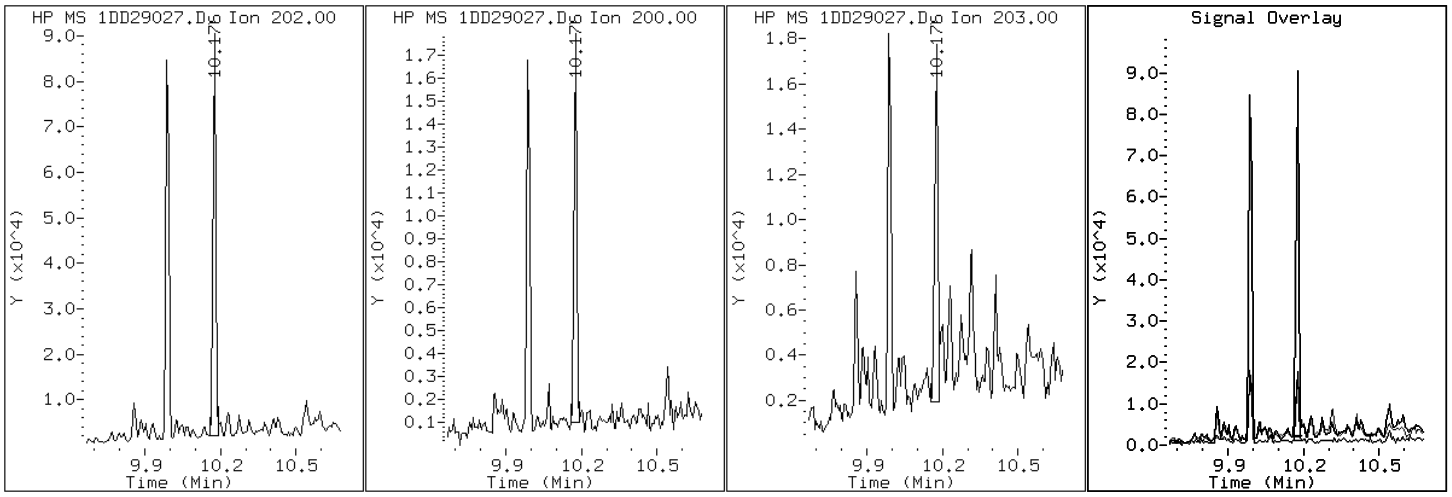
Data File: 1DD29027.D

Date: 29-APR-2013 20:17

Client ID: CV0773B-CS Instrument: BSMSD.i

Sample Info: 680-89695-a-6-a Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD29027.D
Inj. Date and Time: 29-APR-2013 20:17
Instrument ID: BSMSD.i
Client ID: CV0773B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/30/2013

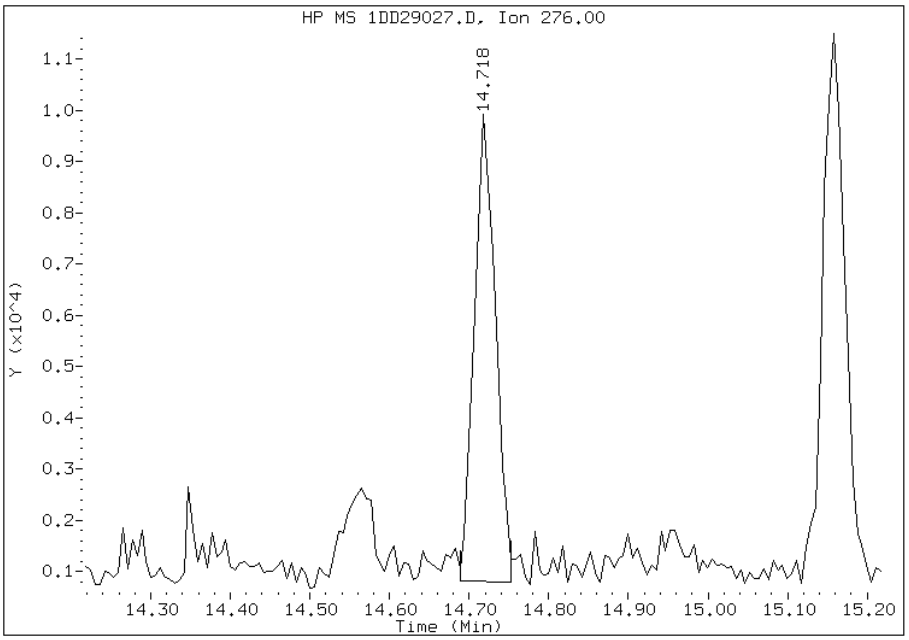
Processing Integration Results

RT: 14.72

Response: 16719

Amount: 0

Conc: 85



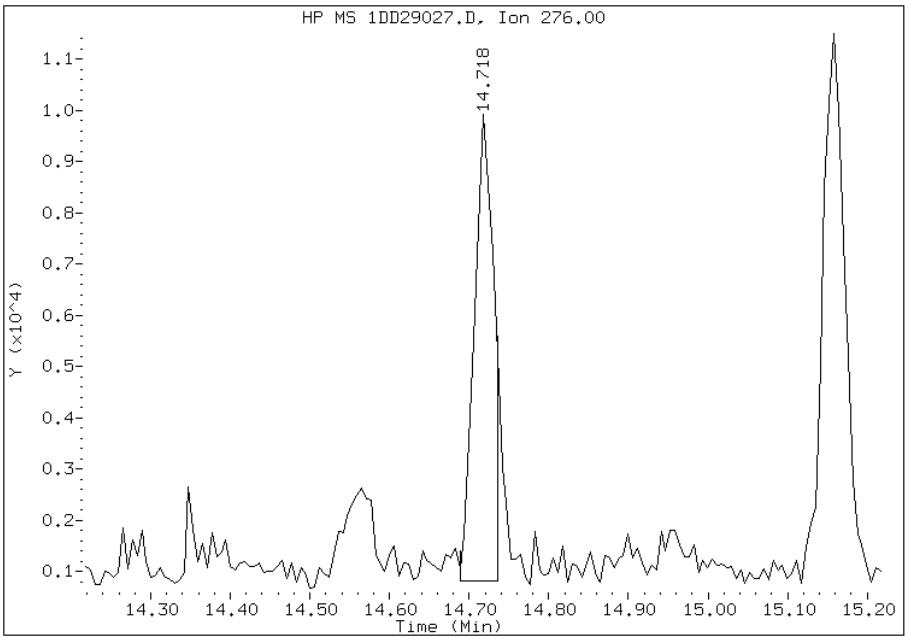
Manual Integration Results

RT: 14.72

Response: 15238

Amount: 0

Conc: 77



Manually Integrated By: cantins
Modification Date: 30-Apr-2013 15:33
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV0809A-CS | Lab Sample ID: 680-89695-7

Matrix: Solid | Lab File ID: 1AD29010.D

Analysis Method: 8270C LL | Date Collected: 04/23/2013 08:45

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 14.93(g) | Date Analyzed: 04/29/2013 14:24

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

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

% Moisture: 21.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136961 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	26	J	130	26
208-96-8	Acenaphthylene	33	J	51	6.4
120-12-7	Anthracene	130		11	5.4
56-55-3	Benzo[a]anthracene	430		10	5.0
50-32-8	Benzo[a]pyrene	370		13	6.6
205-99-2	Benzo[b]fluoranthene	520		16	7.8
191-24-2	Benzo[g,h,i]perylene	290		26	5.6
207-08-9	Benzo[k]fluoranthene	210		10	4.6
218-01-9	Chrysene	400		12	5.8
53-70-3	Dibenz(a,h)anthracene	89		26	5.2
206-44-0	Fluoranthene	910		26	5.1
86-73-7	Fluorene	30		26	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	310		26	9.1
90-12-0	1-Methylnaphthalene	35	J	51	5.6
91-57-6	2-Methylnaphthalene	33	J	51	9.1
91-20-3	Naphthalene	38	J	51	5.6
85-01-8	Phenanthrene	590		10	5.0
129-00-0	Pyrene	720		26	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	33		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29010.D
Lab Smp Id: 680-89695-A-7-A Client Smp ID: CV0809A-CS
Inj Date : 29-APR-2013 14:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89695-a-7-a
Misc Info : 680-89695-A-7-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 10
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	21.429	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.575	2.572	(1.000)	1896463	40.0000	
* 6 Acenaphthene-d10	164	3.606	3.603	(1.000)	949725	40.0000	
* 10 Phenanthrene-d10	188	4.557	4.554	(1.000)	1524339	40.0000	
$ 14 o-Terphenyl	230	4.856	4.859	(1.066)	82580	3.31211	282.3452
* 18 Chrysene-d12	240	6.582	6.574	(1.000)	1398598	40.0000	
* 23 Perylene-d12	264	7.671	7.663	(1.000)	1767863	40.0000	
2 Naphthalene	128	2.586	2.583	(1.004)	20924	0.44136	37.6245
3 2-Methylnaphthalene	141	2.992	2.989	(1.162)	10626	0.39095	33.3271
4 1-Methylnaphthalene	142	3.045	3.048	(1.183)	12281	0.40783	34.7659
5 Acenaphthylene	152	3.515	3.513	(0.975)	21724	0.39139	33.3646
7 Acenaphthene	154	3.622	3.619	(1.004)	8913	0.30620	26.1028
9 Fluorene	166	3.937	3.935	(1.092)	12512	0.35727	30.4561
11 Phenanthrene	178	4.573	4.570	(1.004)	306270	6.93592	591.2619
12 Anthracene	178	4.605	4.608	(1.011)	70240	1.52982	130.4116

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.739	4.736	(1.040)	59948	1.35345	115.3764
15 Fluoranthene	202	5.438	5.436	(1.193)	543139	10.6493	907.8122
16 Pyrene	202	5.604	5.601	(0.851)	450339	8.44003	719.4813
17 Benzo(a)anthracene	228	6.571	6.563	(0.998)	228031	4.99257	425.5977
19 Chrysene	228	6.598	6.595	(1.002)	216444	4.67105	398.1899
20 Benzo(b)fluoranthene	252	7.388	7.380	(0.963)	326234	6.07837	518.1588(M)
21 Benzo(k)fluoranthene	252	7.399	7.407	(0.964)	155044	2.51253	214.1835(QM)
22 Benzo(a)pyrene	252	7.618	7.610	(0.993)	233289	4.36927	372.4644
24 Indeno(1,2,3-cd)pyrene	276	8.430	8.427	(1.099)	182293	3.61591	308.2428(M)
25 Dibenzo(a,h)anthracene	278	8.451	8.454	(1.102)	48817	1.04070	88.7157
26 Benzo(g,h,i)perylene	276	8.649	8.646	(1.127)	193317	3.42621	292.0713

QC Flag Legend

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

Data File: 1AD29010.D

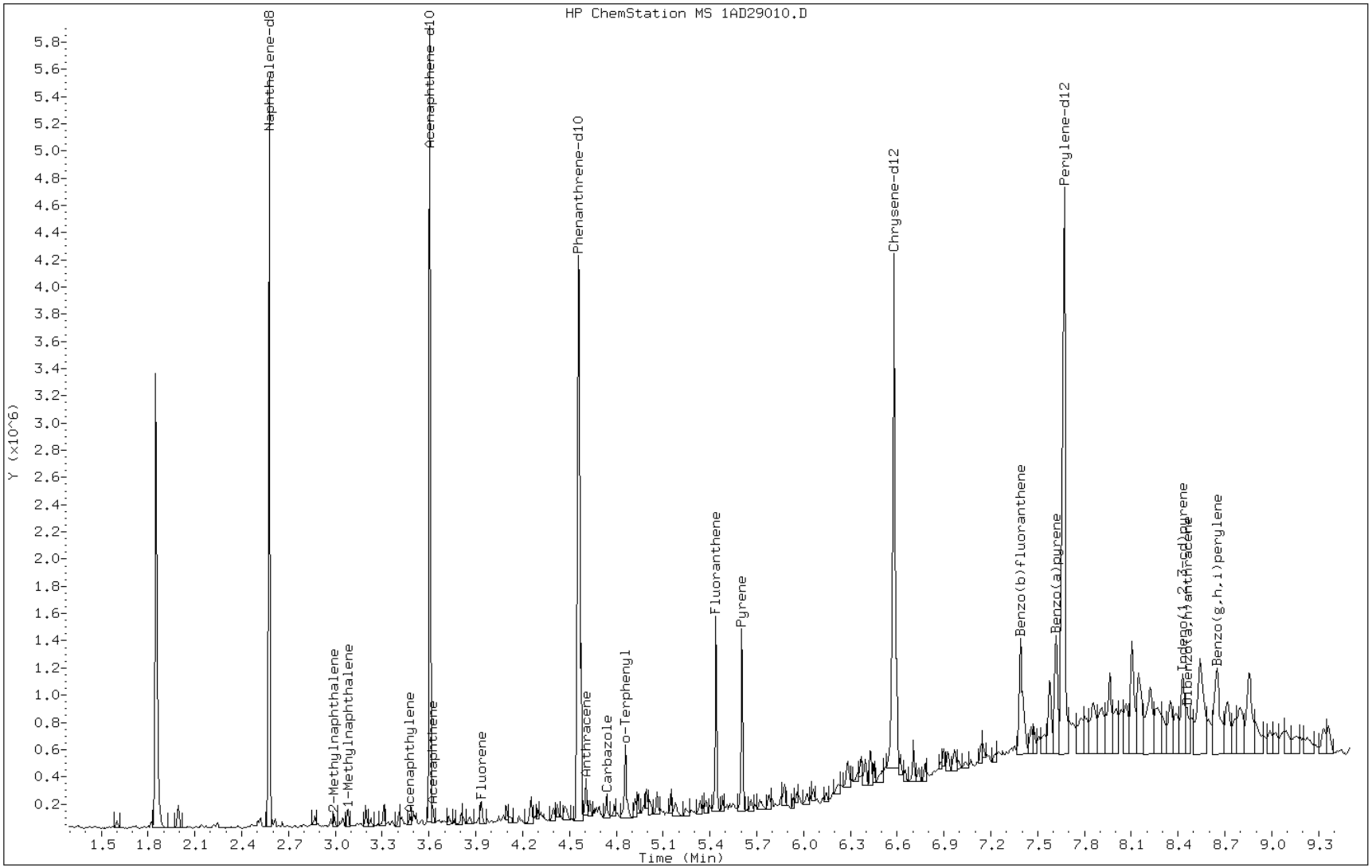
Date: 29-APR-2013 14:24

Client ID: CV0809A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a

Operator: SCC



Data File: 1AD29010.D

Date: 29-APR-2013 14:24

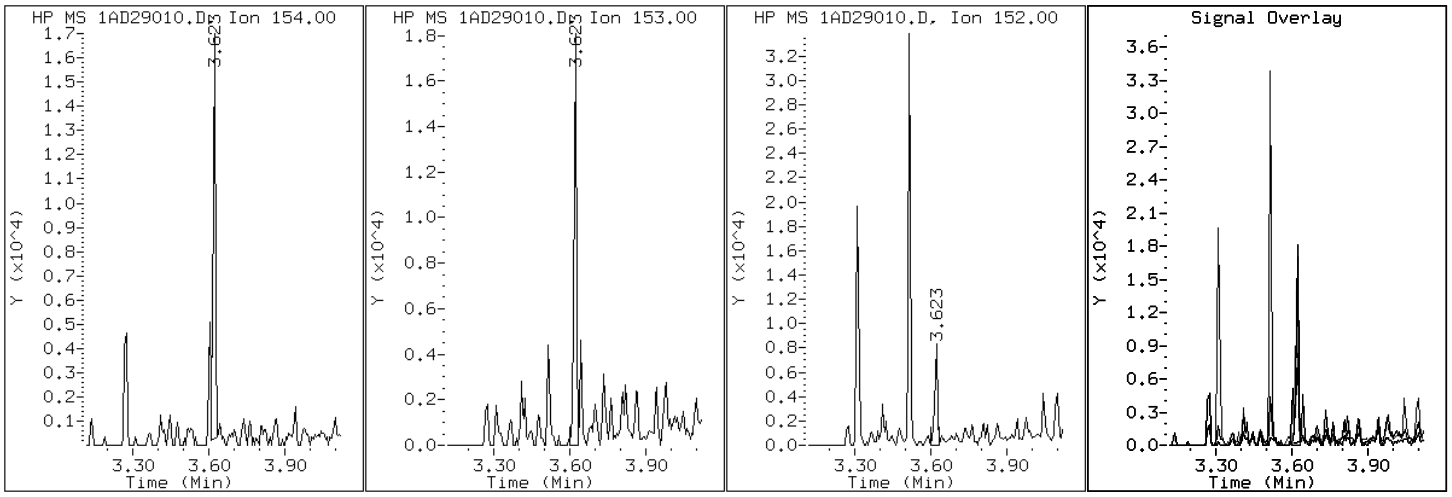
Client ID: CV0809A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a

Operator: SCC

7 Acenaphthene



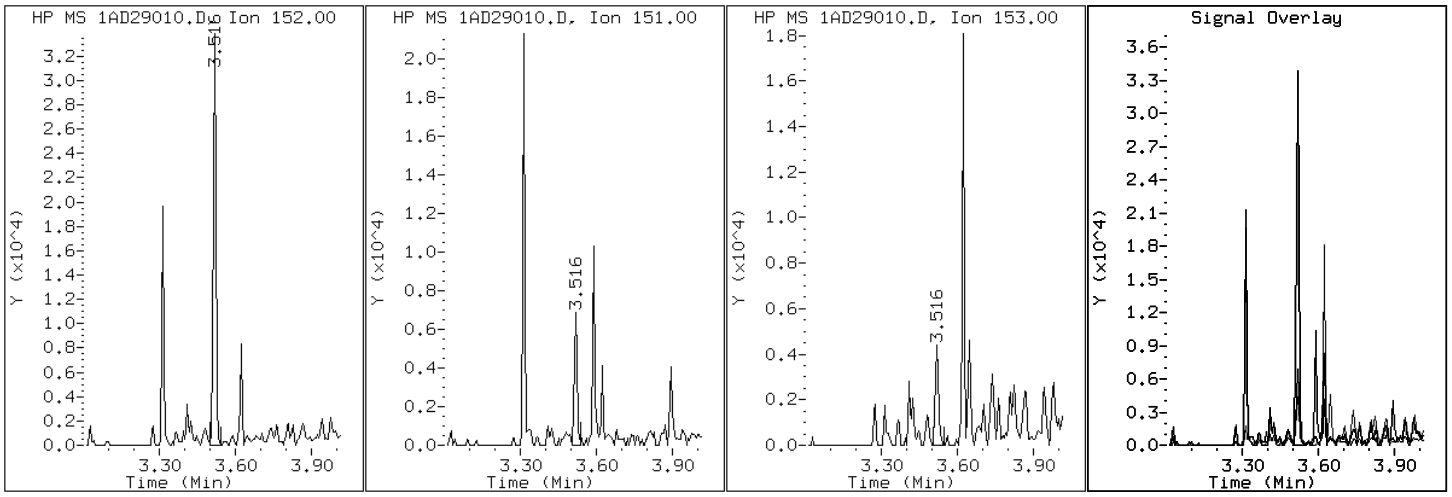
Data File: 1AD29010.D

Date: 29-APR-2013 14:24

Client ID: CV0809A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a Operator: SCC

5 Acenaphthylene



Data File: 1AD29010.D

Date: 29-APR-2013 14:24

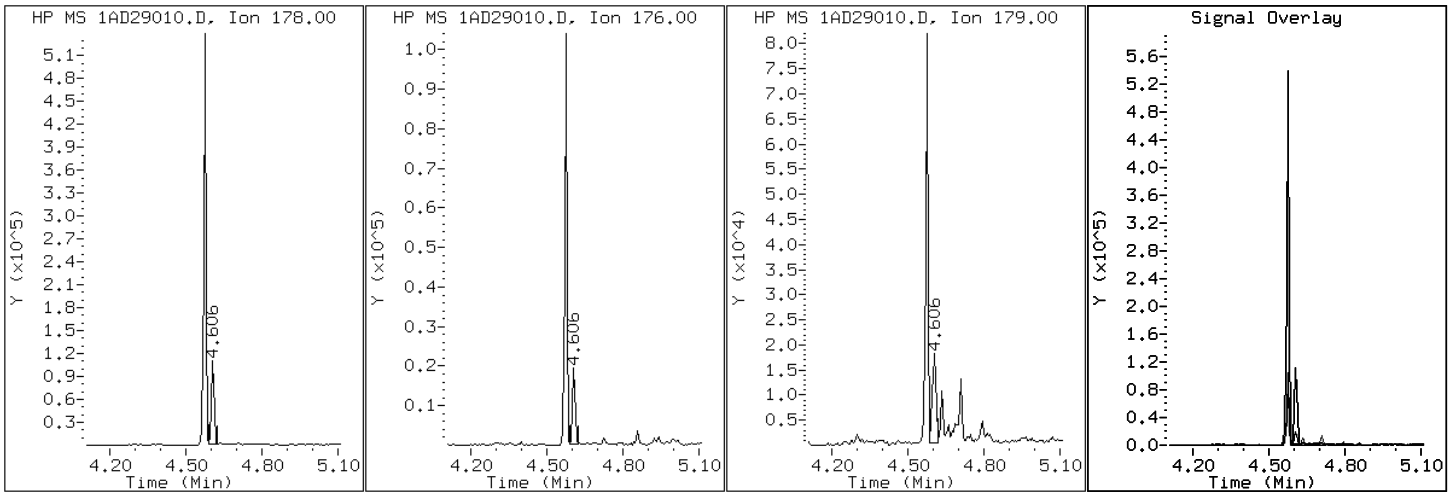
Client ID: CV0809A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a

Operator: SCC

12 Anthracene



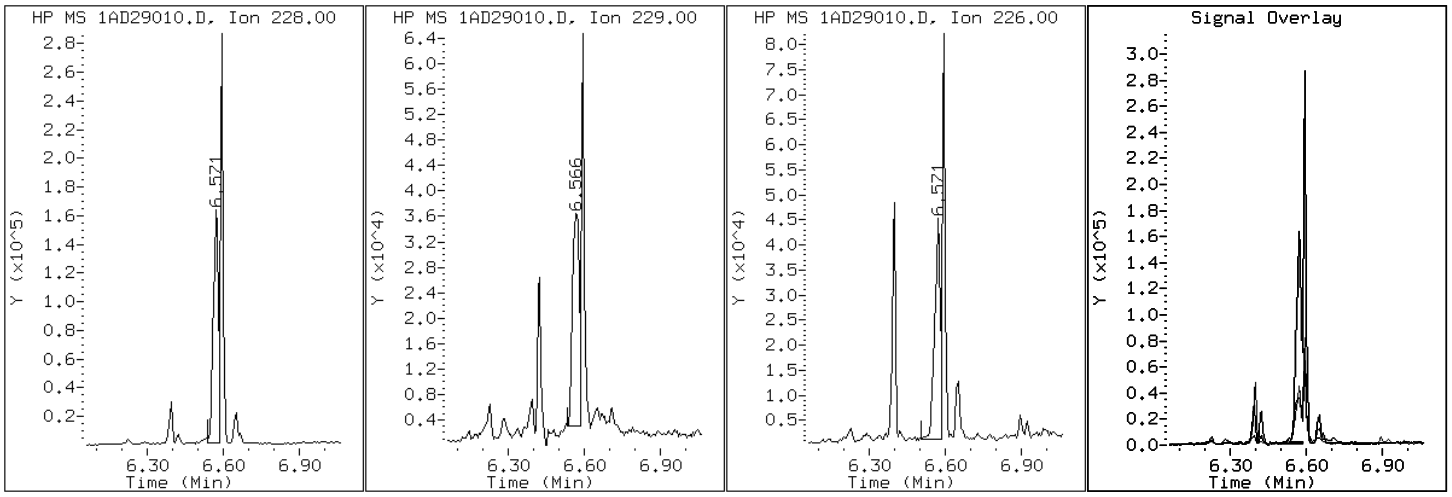
Data File: 1AD29010.D

Date: 29-APR-2013 14:24

Client ID: CV0809A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a Operator: SCC

17 Benzo(a)anthracene



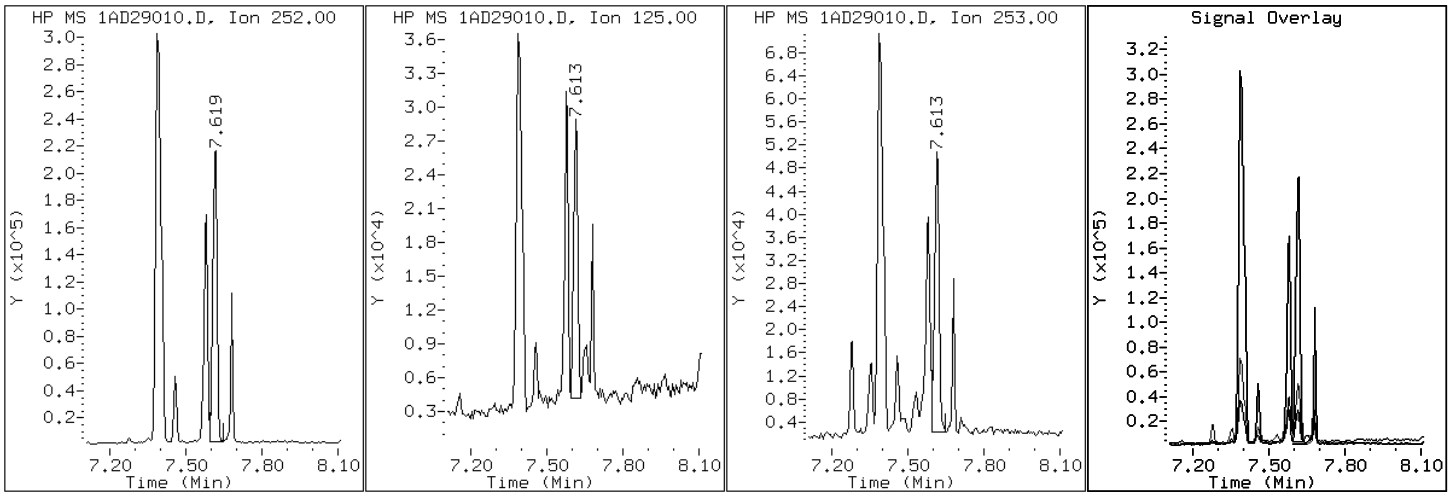
Data File: 1AD29010.D

Date: 29-APR-2013 14:24

Client ID: CV0809A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a Operator: SCC

22 Benzo(a)pyrene



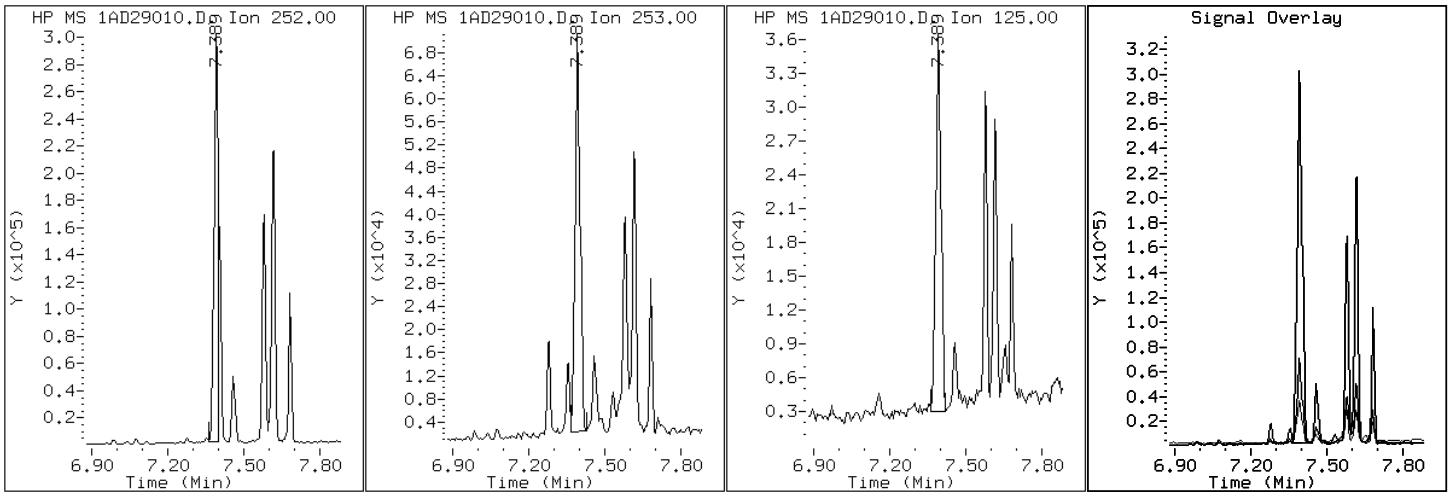
Data File: 1AD29010.D

Date: 29-APR-2013 14:24

Client ID: CV0809A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a Operator: SCC

20 Benzo(b)fluoranthene



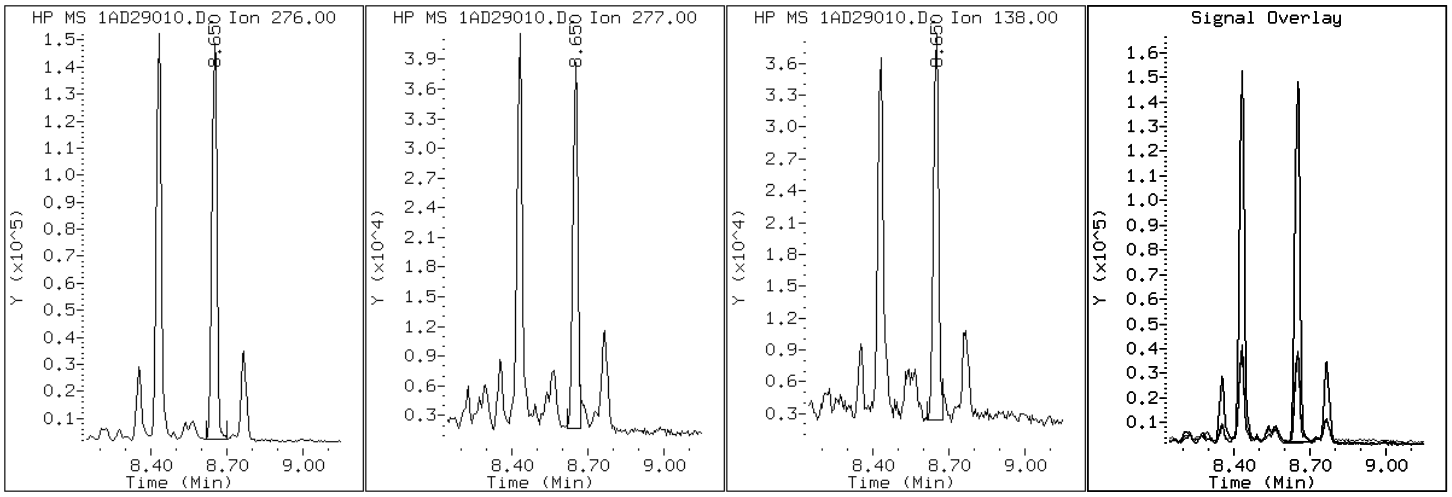
Data File: 1AD29010.D

Date: 29-APR-2013 14:24

Client ID: CV0809A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a Operator: SCC

26 Benzo(g,h,i)perylene



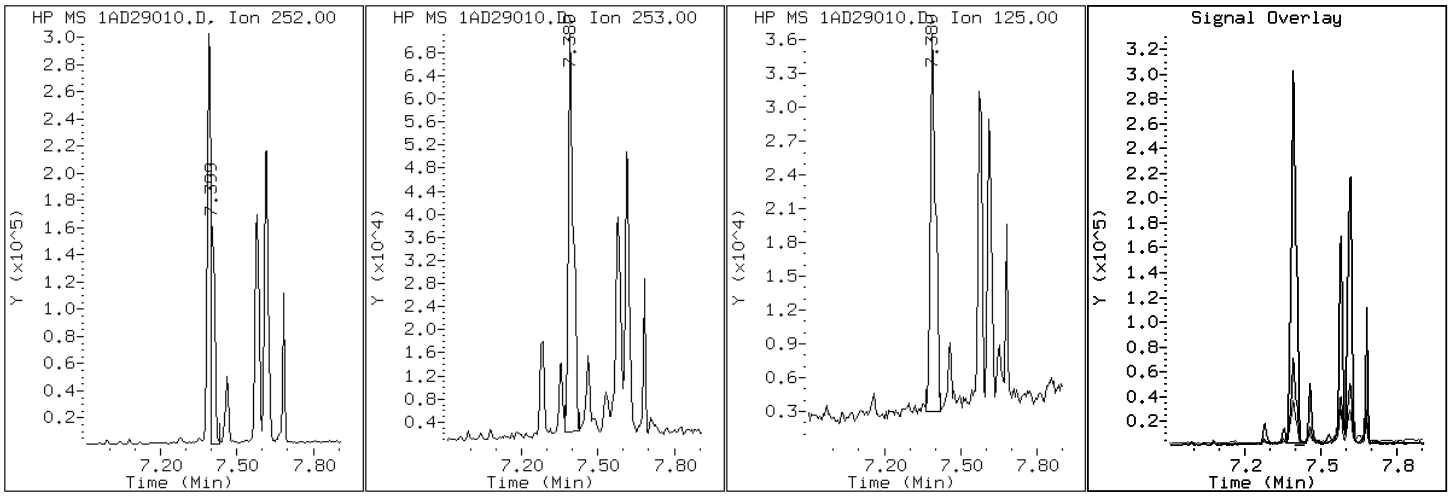
Data File: 1AD29010.D

Date: 29-APR-2013 14:24

Client ID: CV0809A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD29010.D

Date: 29-APR-2013 14:24

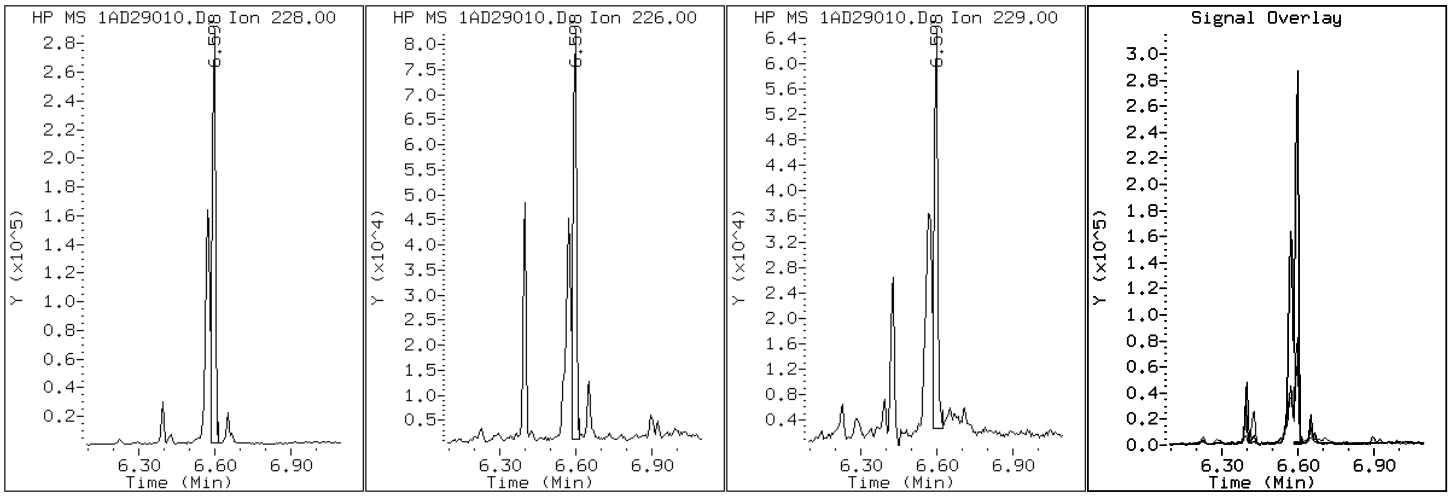
Client ID: CV0809A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a

Operator: SCC

19 Chrysene



Data File: 1AD29010.D

Date: 29-APR-2013 14:24

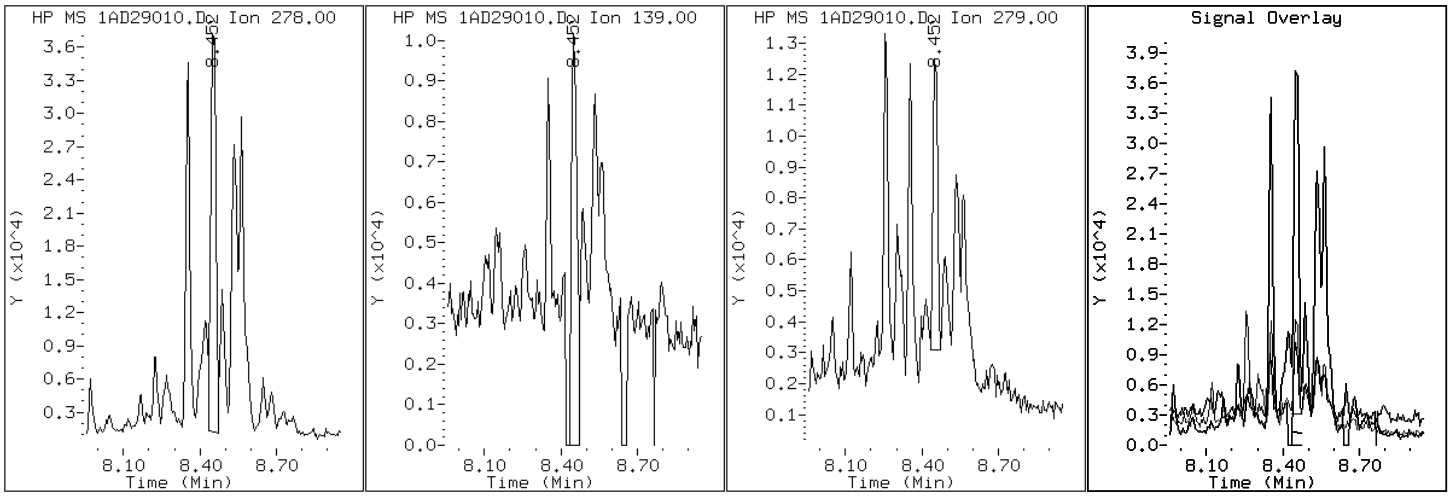
Client ID: CV0809A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD29010.D

Date: 29-APR-2013 14:24

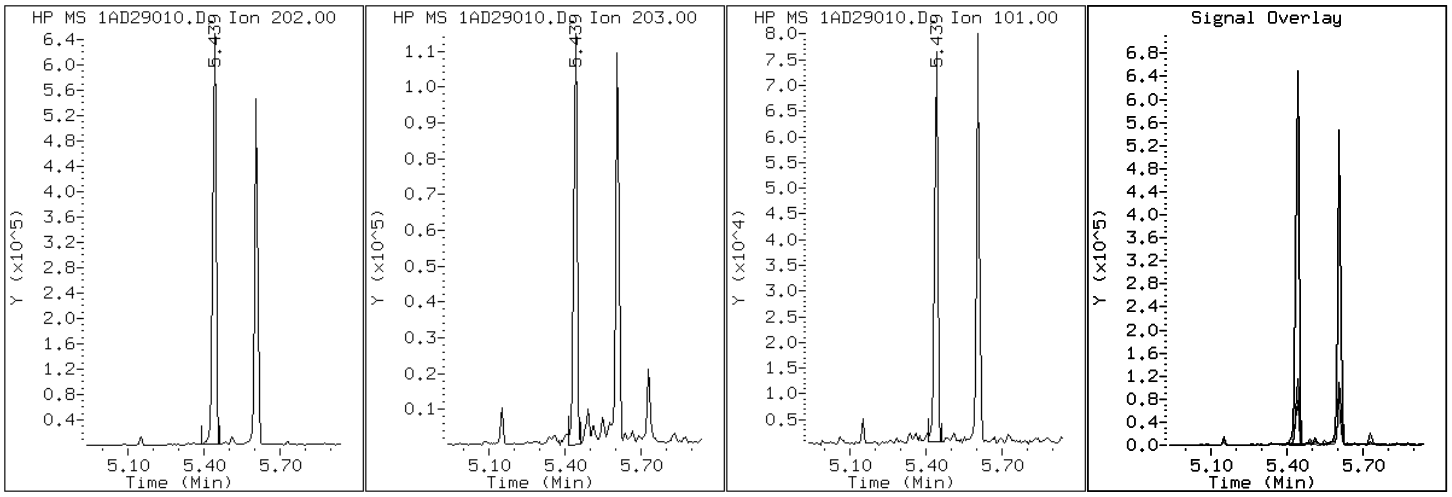
Client ID: CV0809A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a

Operator: SCC

15 Fluoranthene



Data File: 1AD29010.D

Date: 29-APR-2013 14:24

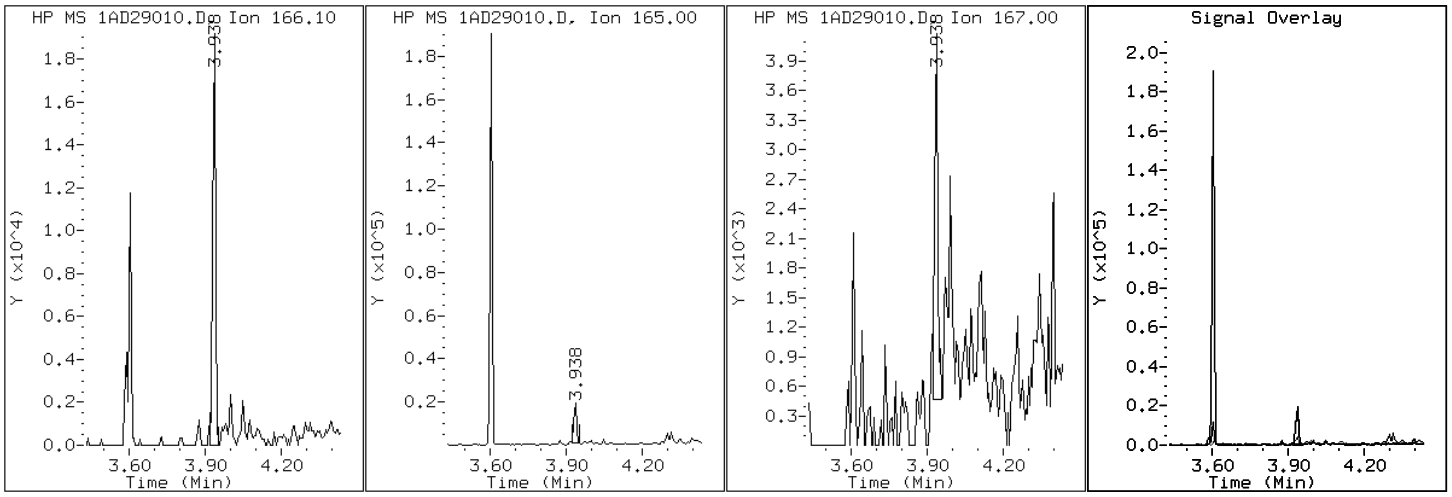
Client ID: CV0809A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a

Operator: SCC

9 Fluorene



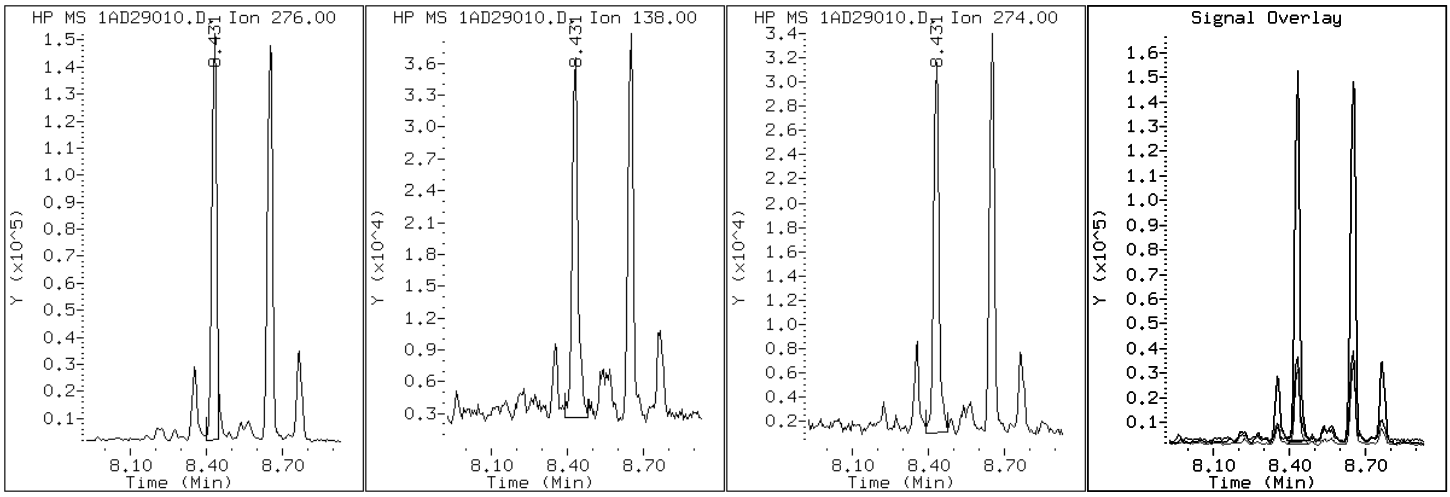
Data File: 1AD29010.D

Date: 29-APR-2013 14:24

Client ID: CV0809A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a Operator: SCC

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



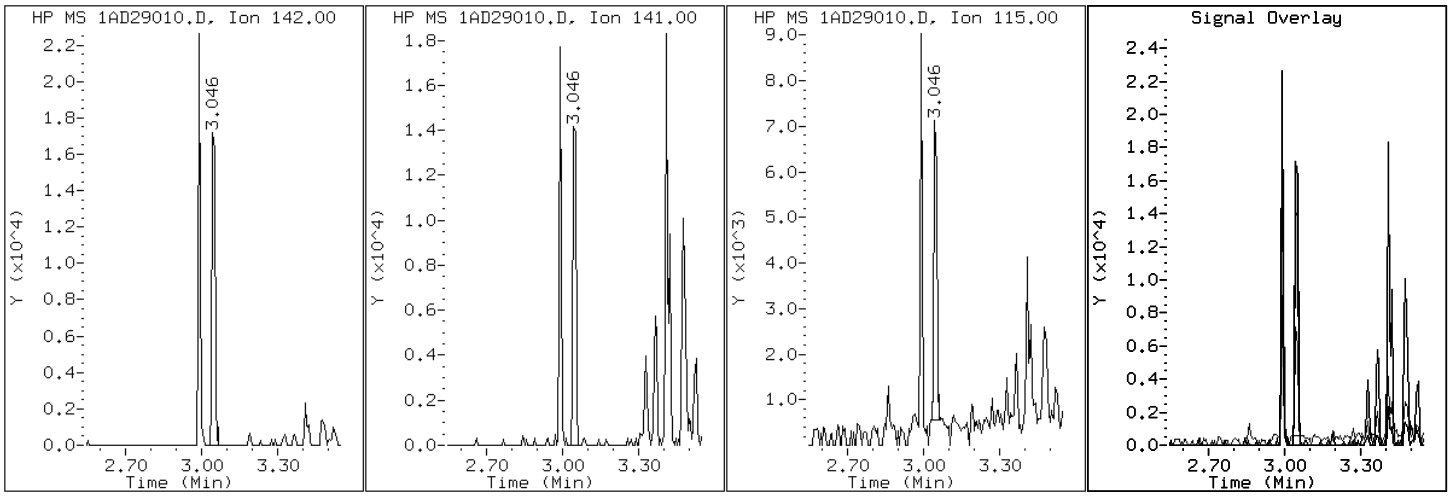
Data File: 1AD29010.D

Date: 29-APR-2013 14:24

Client ID: CV0809A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a Operator: SCC

4 1-Methylnaphthalene



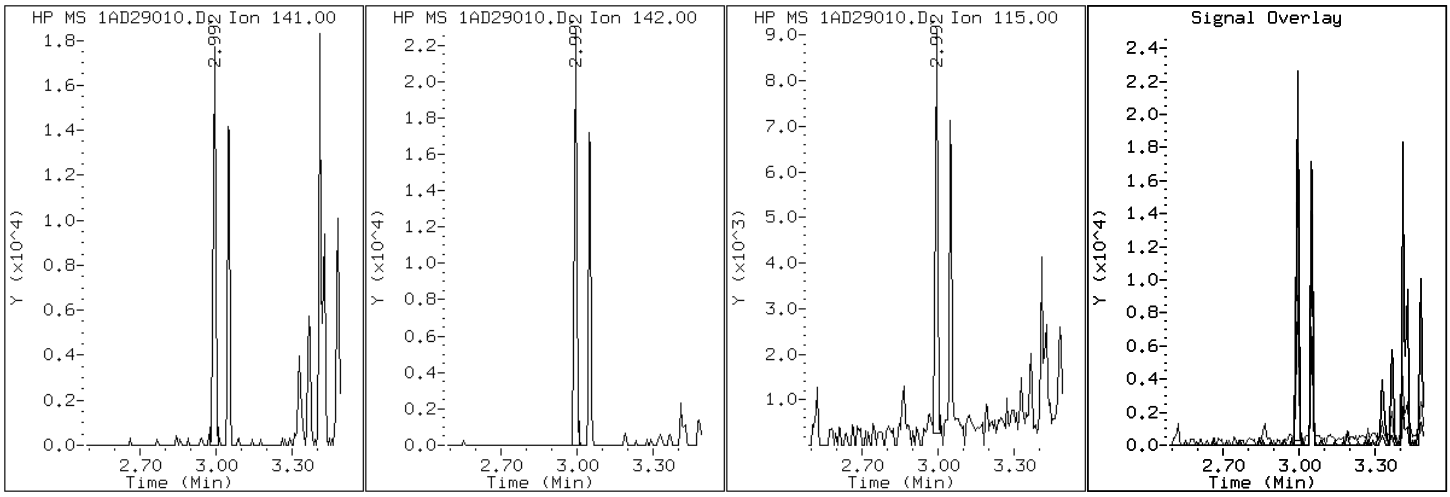
Data File: 1AD29010.D

Date: 29-APR-2013 14:24

Client ID: CV0809A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD29010.D

Date: 29-APR-2013 14:24

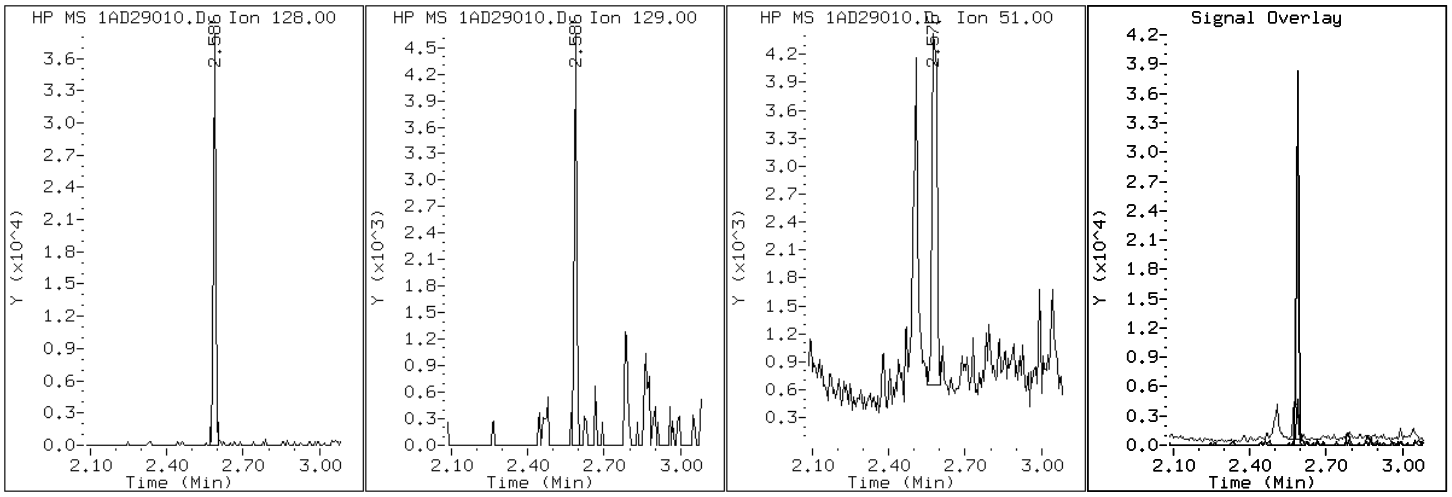
Client ID: CV0809A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a

Operator: SCC

2 Naphthalene



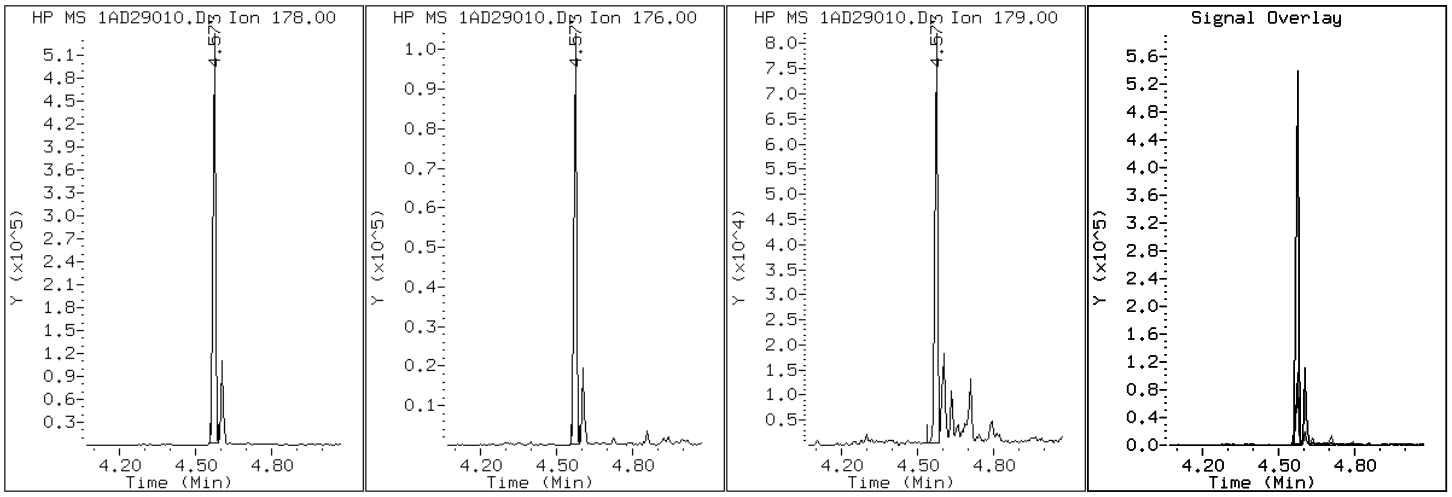
Data File: 1AD29010.D

Date: 29-APR-2013 14:24

Client ID: CV0809A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a Operator: SCC

11 Phenanthrene



Data File: 1AD29010.D

Date: 29-APR-2013 14:24

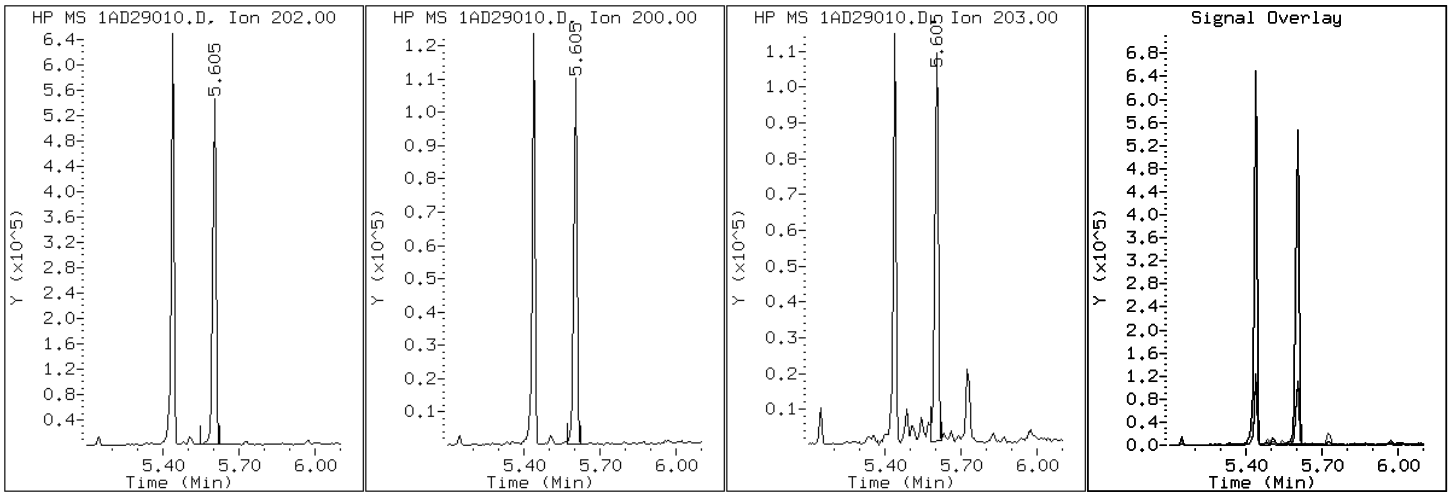
Client ID: CV0809A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-7-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD29010.D
Inj. Date and Time: 29-APR-2013 14:24
Instrument ID: BSMA5973.i
Client ID: CV0809A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

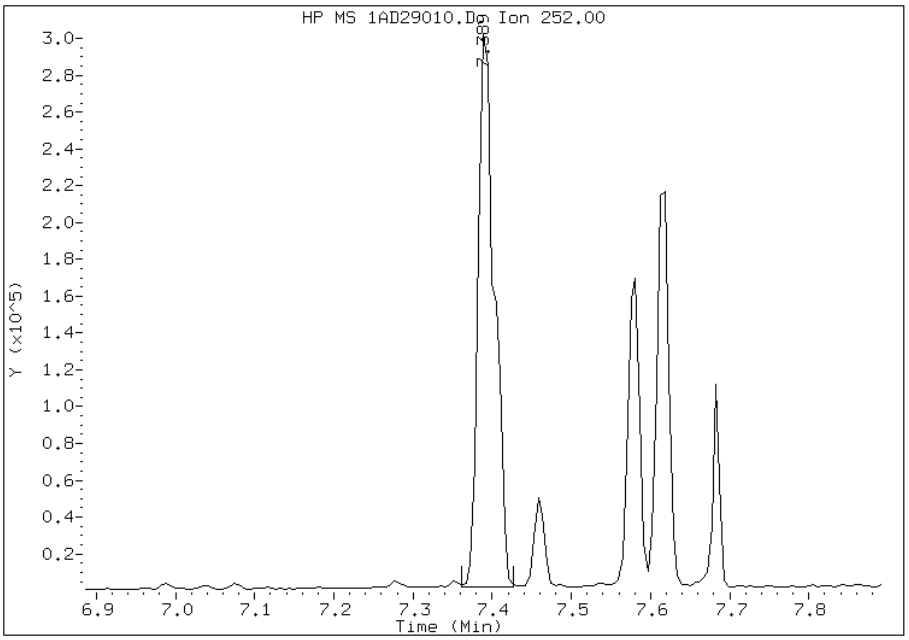
Processing Integration Results

RT: 7.39

Response: 424633

Amount: 8

Conc: 674



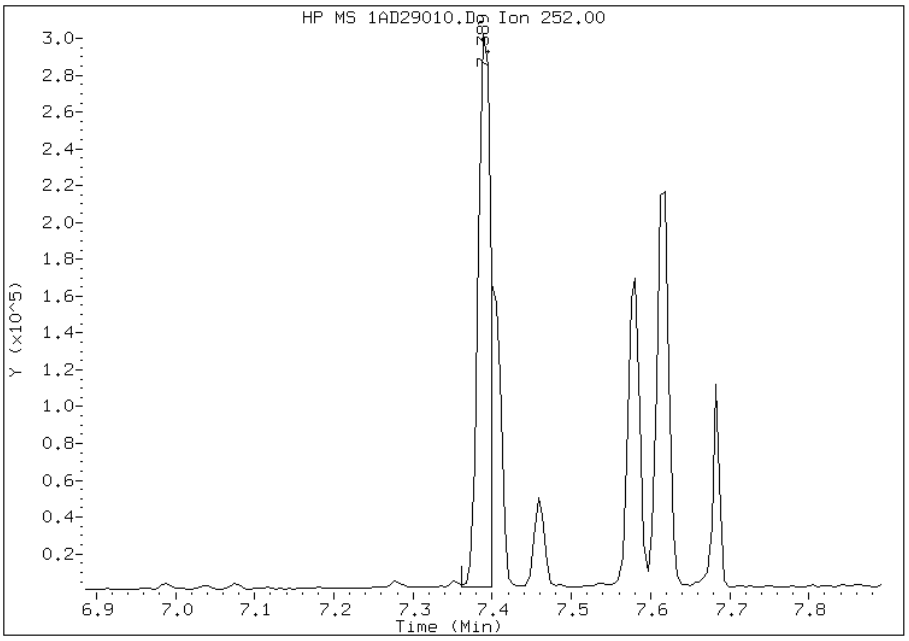
Manual Integration Results

RT: 7.39

Response: 326234

Amount: 6

Conc: 518



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:42
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29010.D
Inj. Date and Time: 29-APR-2013 14:24
Instrument ID: BSMA5973.i
Client ID: CV0809A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

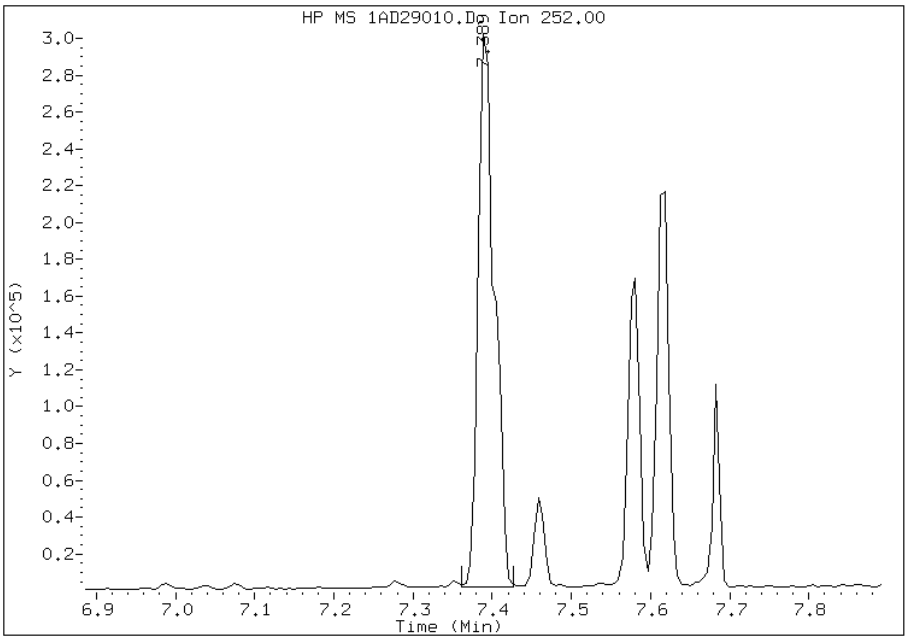
Processing Integration Results

RT: 7.39

Response: 424633

Amount: 7

Conc: 587



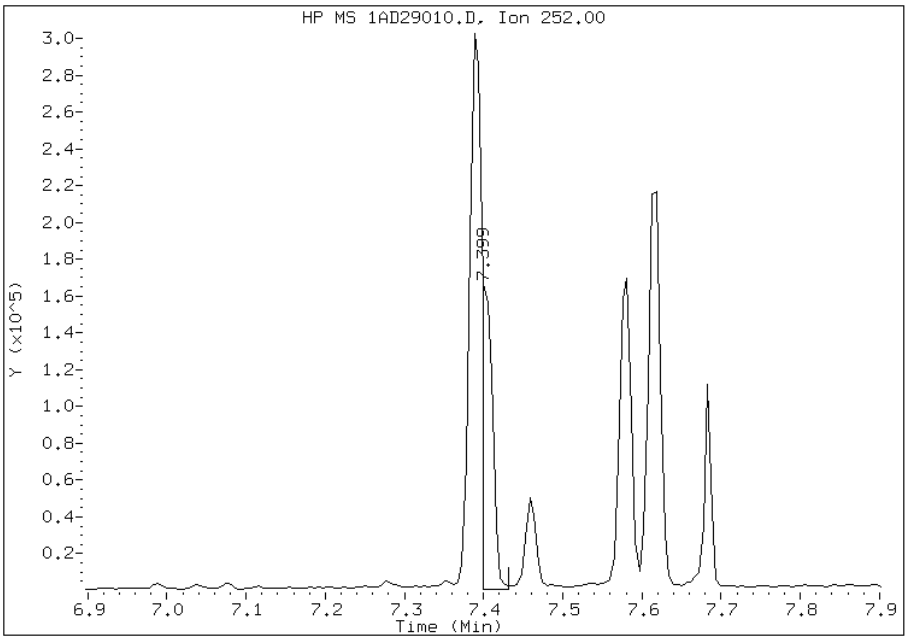
Manual Integration Results

RT: 7.40

Response: 155044

Amount: 3

Conc: 214



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29010.D
Inj. Date and Time: 29-APR-2013 14:24
Instrument ID: BSMA5973.i
Client ID: CV0809A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

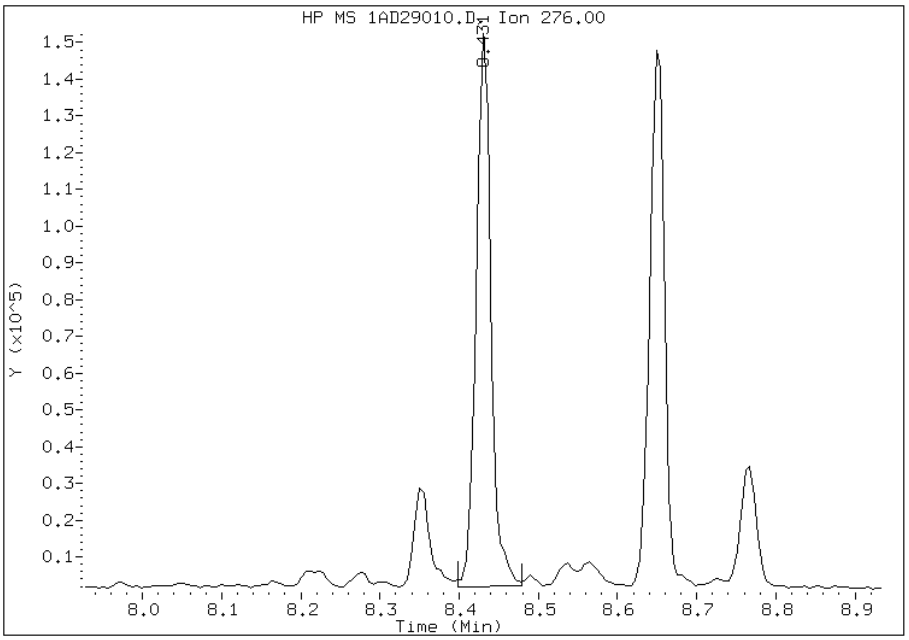
Processing Integration Results

RT: 8.43

Response: 192412

Amount: 4

Conc: 325



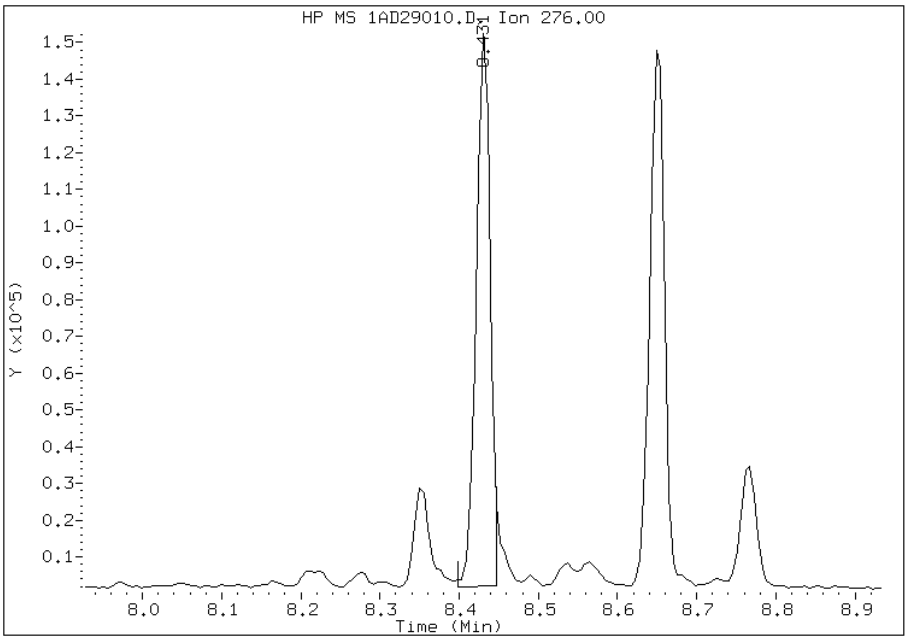
Manual Integration Results

RT: 8.43

Response: 182293

Amount: 4

Conc: 308



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:43
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV0809A-CSD | Lab Sample ID: 680-89695-8

Matrix: Solid | Lab File ID: 1AD29011.D

Analysis Method: 8270C LL | Date Collected: 04/23/2013 08:45

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 15.07(g) | Date Analyzed: 04/29/2013 14:39

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.: 136961 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	60		50	6.3
120-12-7	Anthracene	79		11	5.3
56-55-3	Benzo[a]anthracene	370		10	4.9
50-32-8	Benzo[a]pyrene	370		13	6.6
205-99-2	Benzo[b]fluoranthene	610		15	7.7
191-24-2	Benzo[g,h,i]perylene	330		25	5.6
207-08-9	Benzo[k]fluoranthene	180		10	4.5
218-01-9	Chrysene	410		11	5.7
53-70-3	Dibenz(a,h)anthracene	98		25	5.2
206-44-0	Fluoranthene	560		25	5.0
86-73-7	Fluorene	14	J	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	330		25	9.0
90-12-0	1-Methylnaphthalene	62		50	5.6
91-57-6	2-Methylnaphthalene	60		50	9.0
91-20-3	Naphthalene	58		50	5.6
85-01-8	Phenanthrene	230		10	4.9
129-00-0	Pyrene	460		25	4.7

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\BSMA5973.i\1A042913.b\1AD29011.D
Lab Smp Id: 680-89695-A-8-A Client Smp ID: CV0809A-CSD
Inj Date : 29-APR-2013 14:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89695-a-8-a
Misc Info : 680-89695-A-8-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 11
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	15.070	Weight Extracted
M	21.130	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.575	2.572	(1.000)	1772832	40.0000	
* 6 Acenaphthene-d10	164	3.606	3.603	(1.000)	877769	40.0000	
* 10 Phenanthrene-d10	188	4.562	4.554	(1.000)	1440060	40.0000	
$ 14 o-Terphenyl	230	4.861	4.859	(1.066)	148794	6.31708	531.4834
* 18 Chrysene-d12	240	6.581	6.574	(1.000)	1367730	40.0000	
* 23 Perylene-d12	264	7.671	7.663	(1.000)	1701812	40.0000	
2 Naphthalene	128	2.585	2.583	(1.004)	30715	0.69307	58.3111
3 2-Methylnaphthalene	141	2.991	2.989	(1.162)	18235	0.71769	60.3821
4 1-Methylnaphthalene	142	3.050	3.048	(1.185)	20801	0.73893	62.1697
5 Acenaphthylene	152	3.515	3.513	(0.975)	36615	0.71375	60.0511
9 Fluorene	166	3.937	3.935	(1.092)	5213	0.16106	13.5503
11 Phenanthrene	178	4.573	4.570	(1.002)	114462	2.74386	230.8530
12 Anthracene	178	4.605	4.608	(1.009)	40604	0.93611	78.7588
13 Carbazole	167	4.738	4.736	(1.039)	24809	0.59289	49.8827

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.438	5.436	(1.192)	319332	6.62755	557.6044
16 Pyrene	202	5.604	5.601	(0.851)	283859	5.44001	457.6916
17 Benzo(a)anthracene	228	6.571	6.563	(0.998)	196082	4.38996	369.3460
19 Chrysene	228	6.597	6.595	(1.002)	221416	4.88619	411.0968
20 Benzo(b)fluoranthene	252	7.393	7.380	(0.964)	376022	7.27794	612.3246(M)
21 Benzo(k)fluoranthene	252	7.404	7.407	(0.965)	123936	2.08636	175.5348(QM)
22 Benzo(a)pyrene	252	7.618	7.610	(0.993)	225579	4.38885	369.2529
24 Indeno(1,2,3-cd)pyrene	276	8.440	8.427	(1.100)	189073	3.89596	327.7837(M)
25 Dibenzo(a,h)anthracene	278	8.462	8.454	(1.103)	52534	1.16341	97.8825
26 Benzo(g,h,i)perylene	276	8.659	8.646	(1.129)	211105	3.88668	327.0034

QC Flag Legend

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

Data File: 1AD29011.D

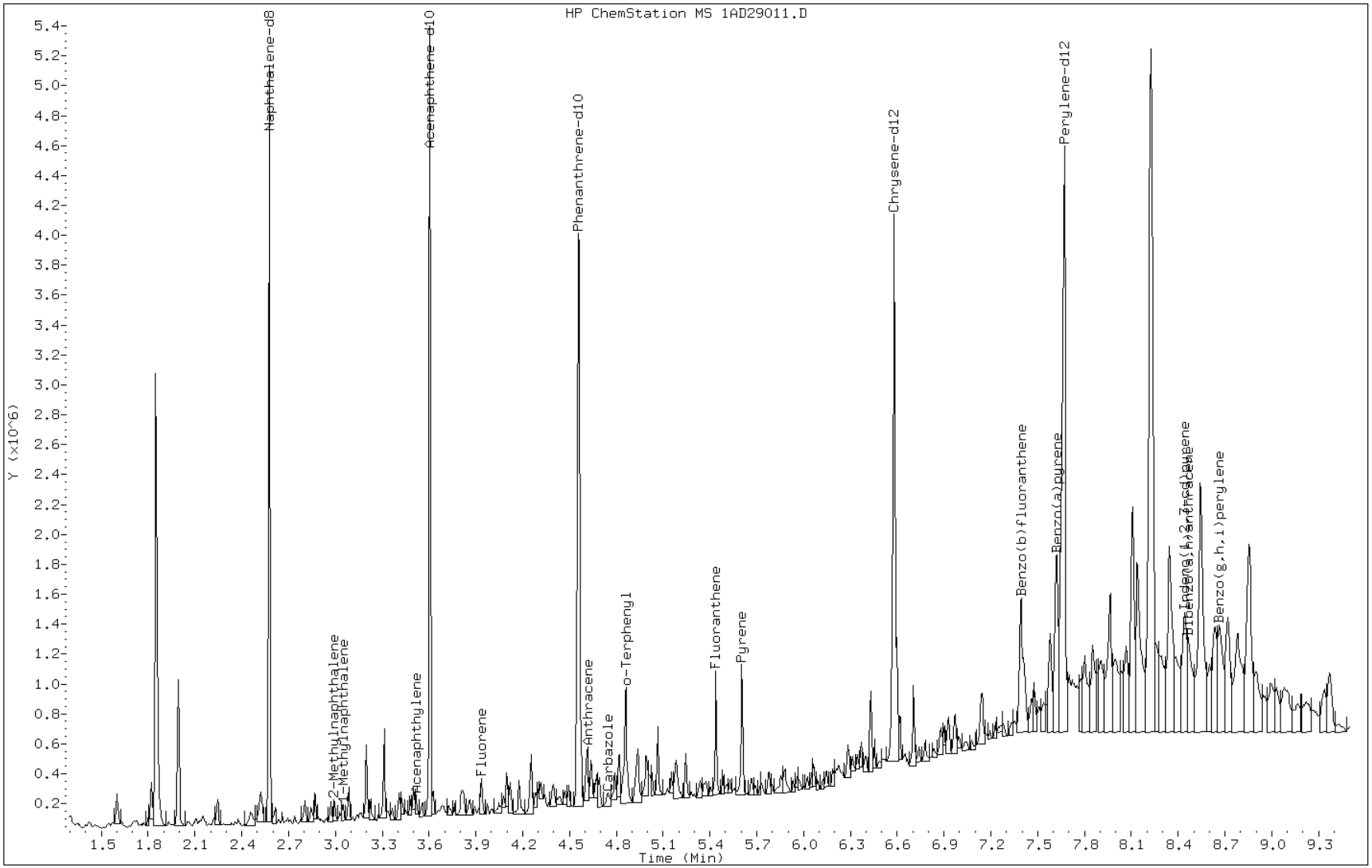
Date: 29-APR-2013 14:39

Client ID: CV0809A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a

Operator: SCC



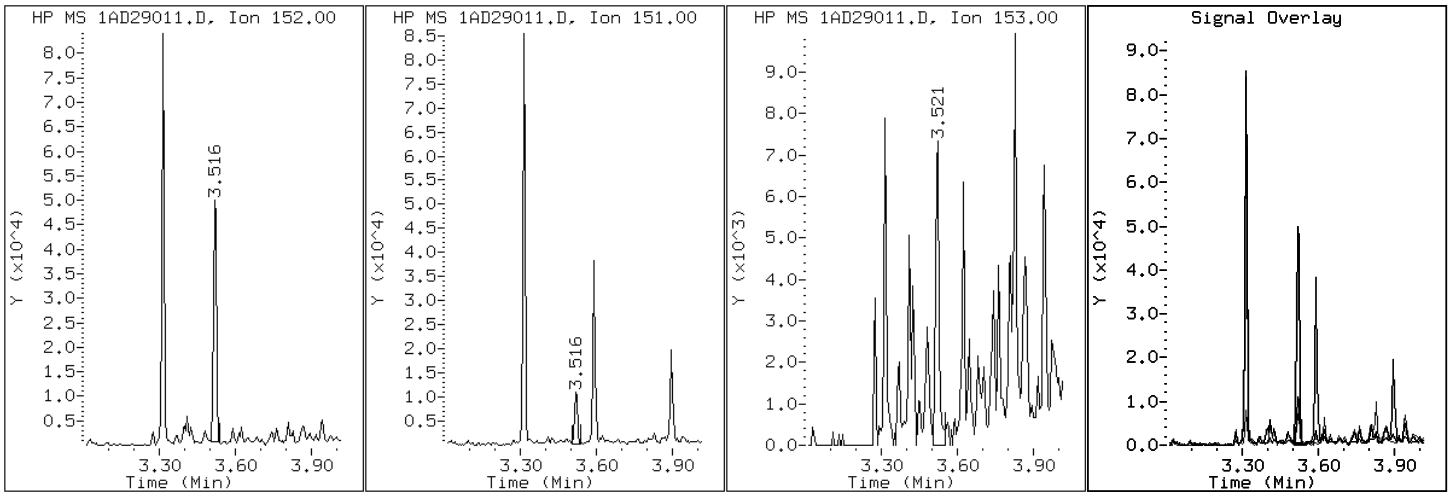
Data File: 1AD29011.D

Date: 29-APR-2013 14:39

Client ID: CV0809A-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a Operator: SCC

5 Acenaphthylene



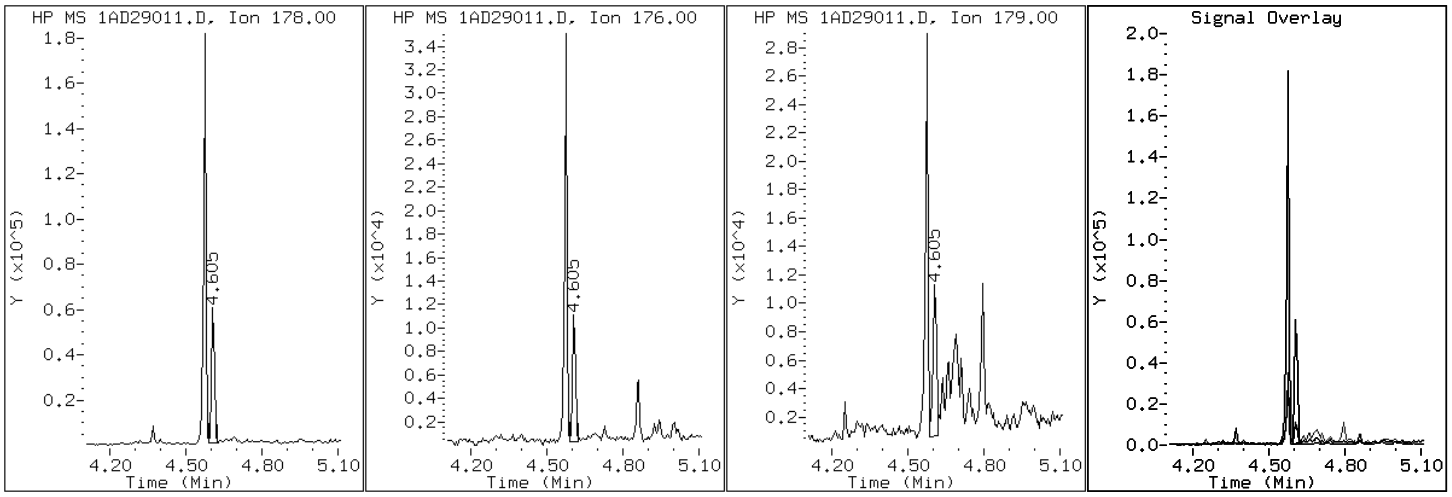
Data File: 1AD29011.D

Date: 29-APR-2013 14:39

Client ID: CV0809A-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a Operator: SCC

12 Anthracene



Data File: 1AD29011.D

Date: 29-APR-2013 14:39

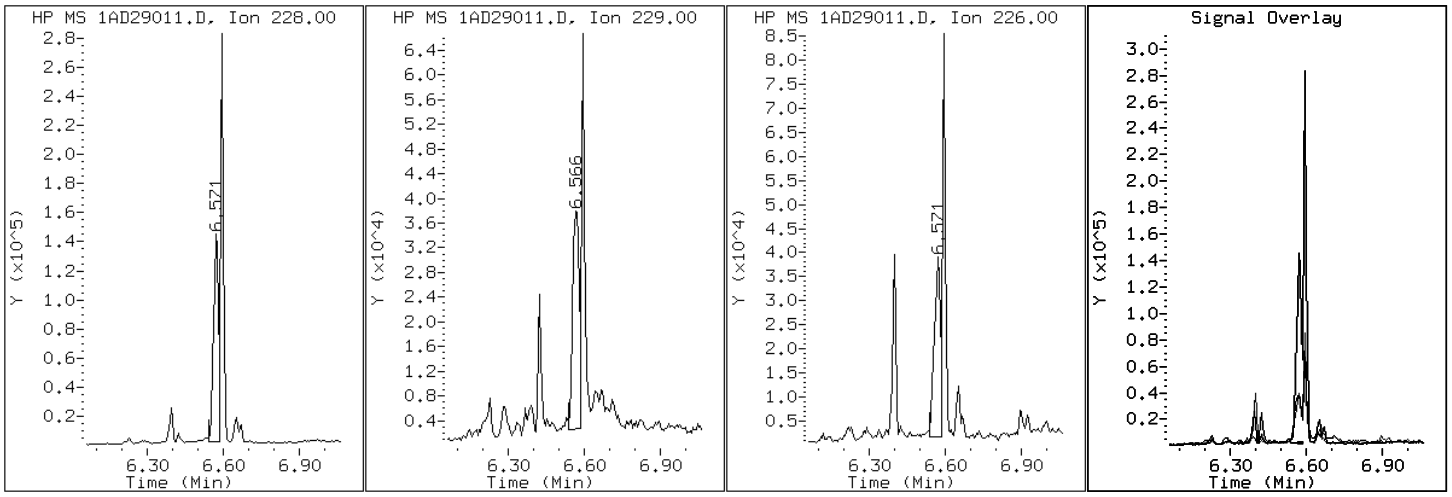
Client ID: CV0809A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a

Operator: SCC

17 Benzo(a)anthracene



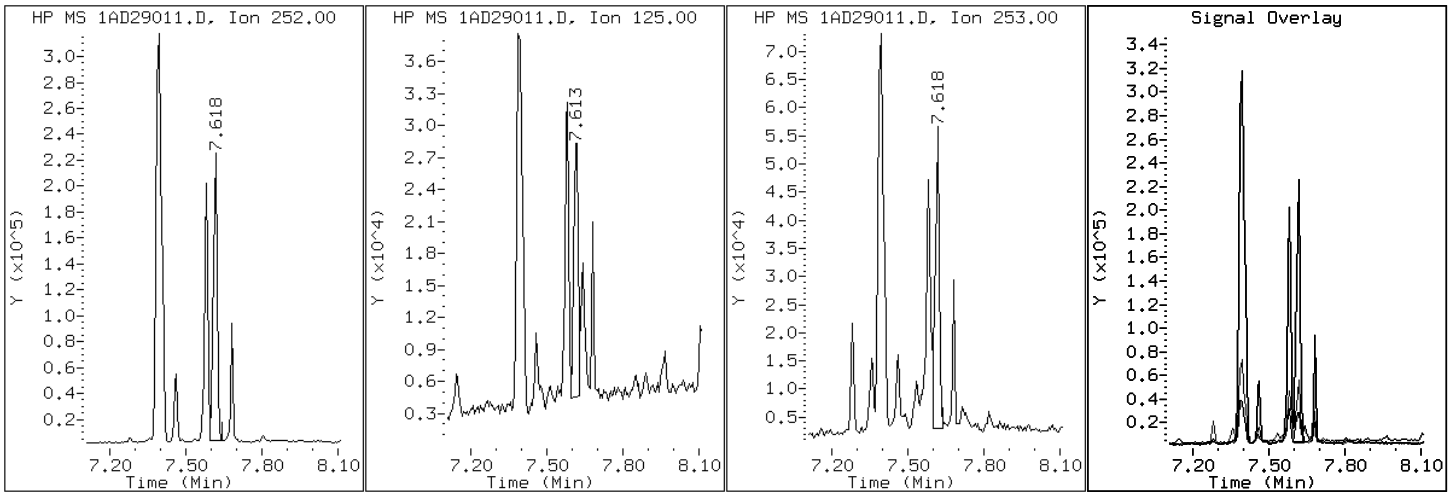
Data File: 1AD29011.D

Date: 29-APR-2013 14:39

Client ID: CV0809A-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a Operator: SCC

22 Benzo(a)pyrene



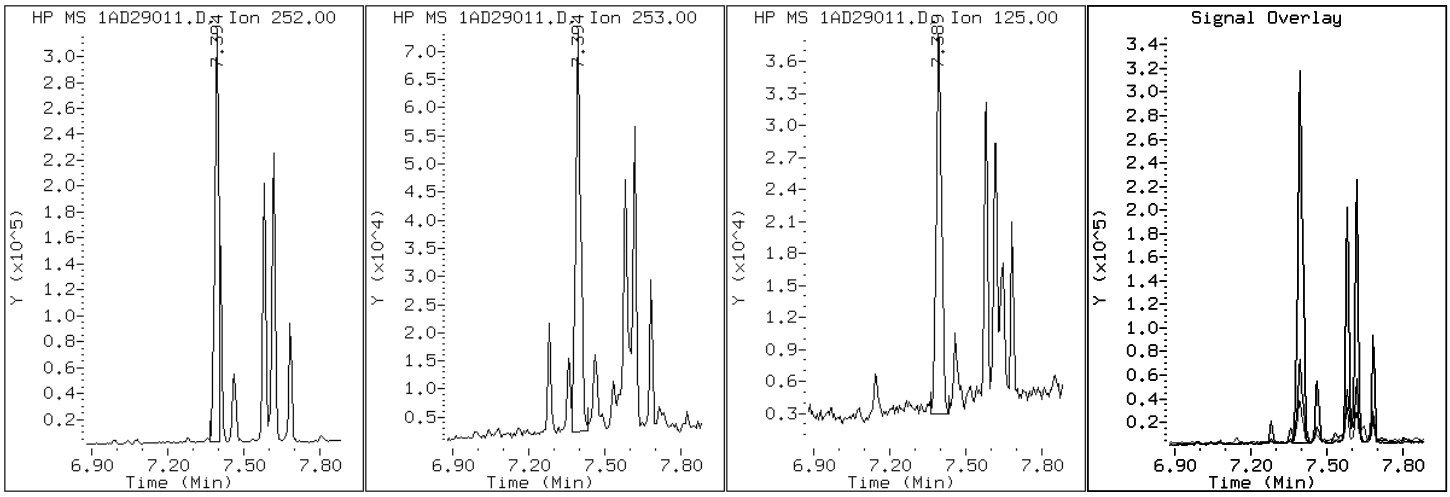
Data File: 1AD29011.D

Date: 29-APR-2013 14:39

Client ID: CV0809A-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a Operator: SCC

20 Benzo(b)fluoranthene



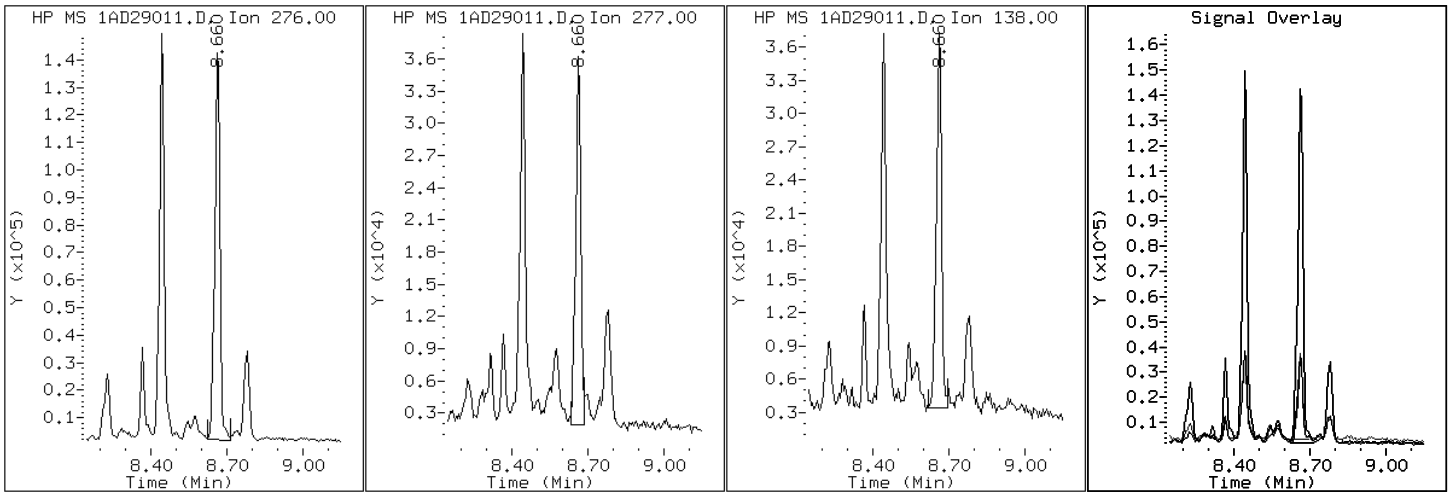
Data File: 1AD29011.D

Date: 29-APR-2013 14:39

Client ID: CV0809A-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a Operator: SCC

26 Benzo(g,h,i)perylene



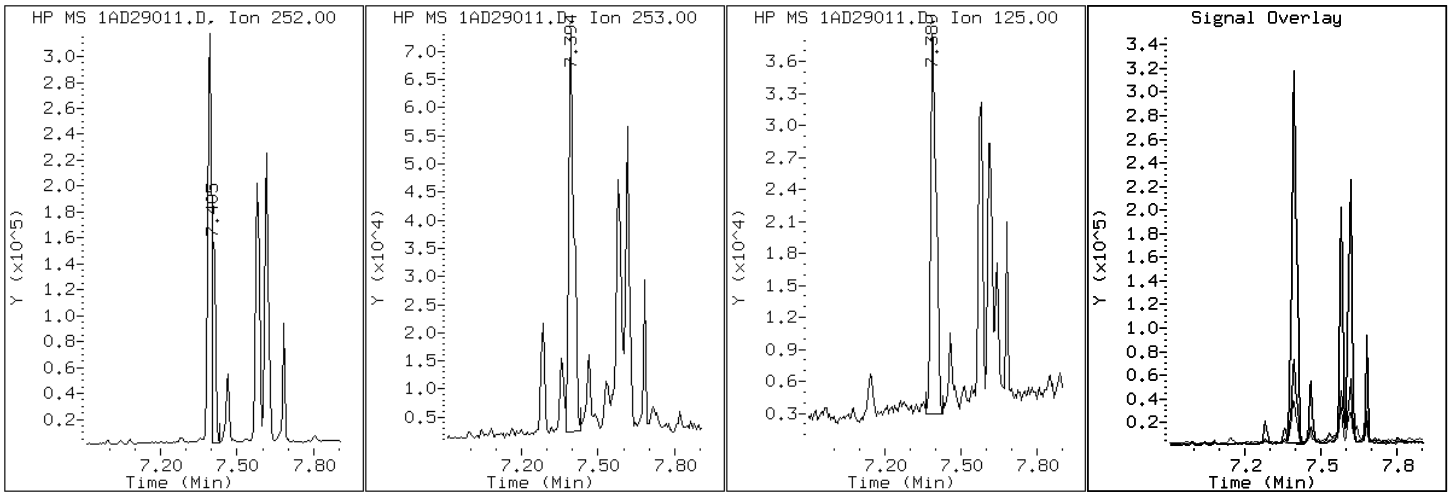
Data File: 1AD29011.D

Date: 29-APR-2013 14:39

Client ID: CV0809A-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD29011.D

Date: 29-APR-2013 14:39

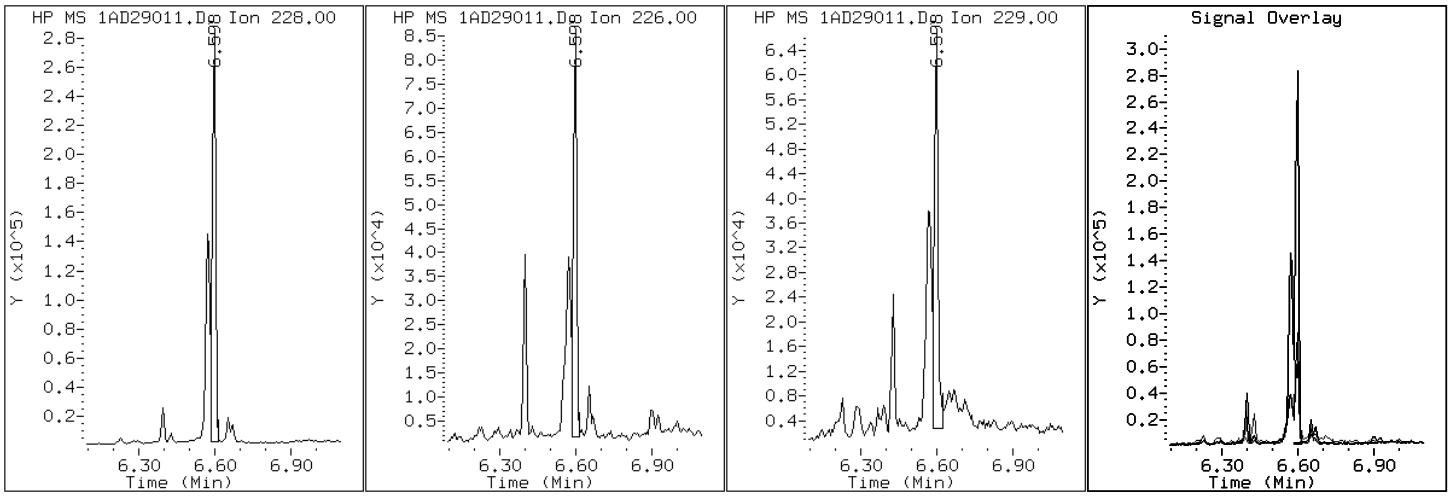
Client ID: CV0809A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a

Operator: SCC

19 Chrysene



Data File: 1AD29011.D

Date: 29-APR-2013 14:39

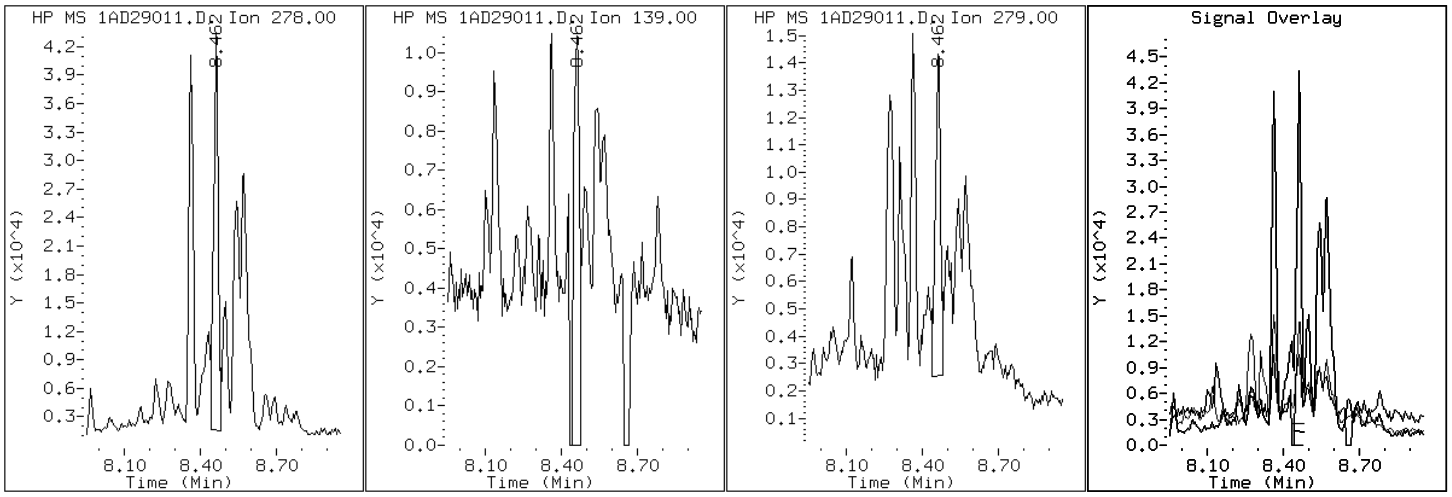
Client ID: CV0809A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD29011.D

Date: 29-APR-2013 14:39

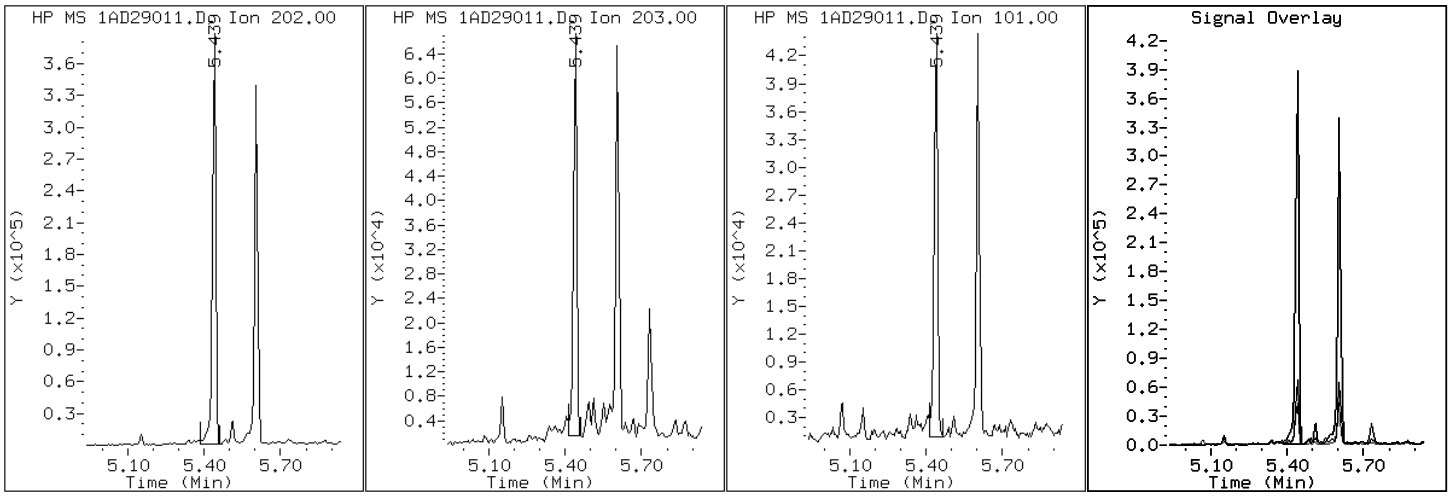
Client ID: CV0809A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a

Operator: SCC

15 Fluoranthene



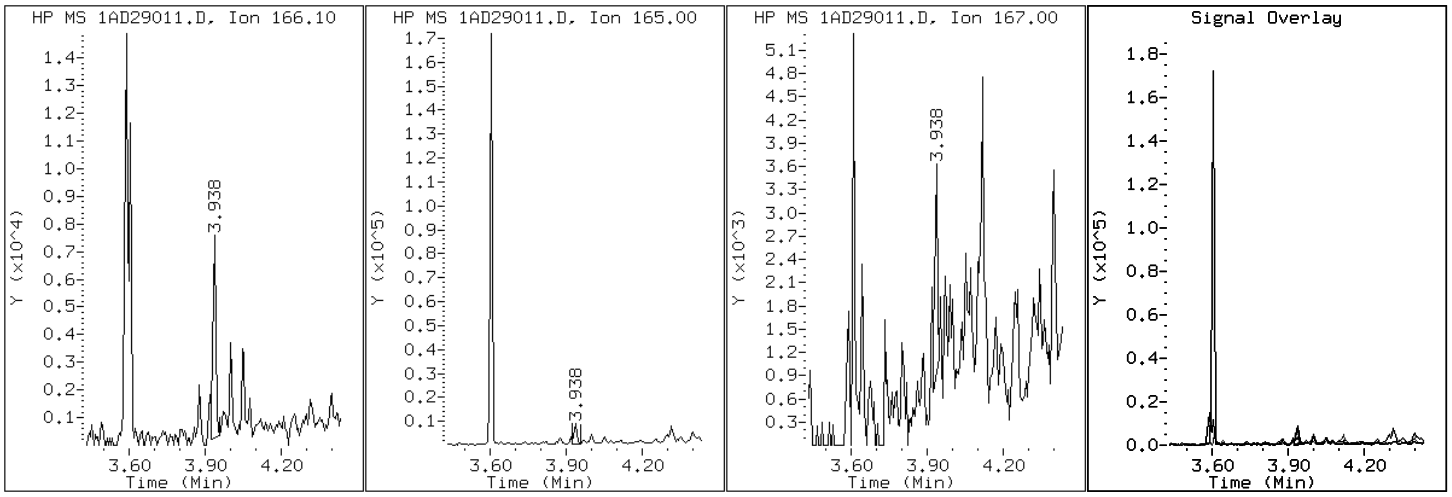
Data File: 1AD29011.D

Date: 29-APR-2013 14:39

Client ID: CV0809A-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a Operator: SCC

9 Fluorene



Data File: 1AD29011.D

Date: 29-APR-2013 14:39

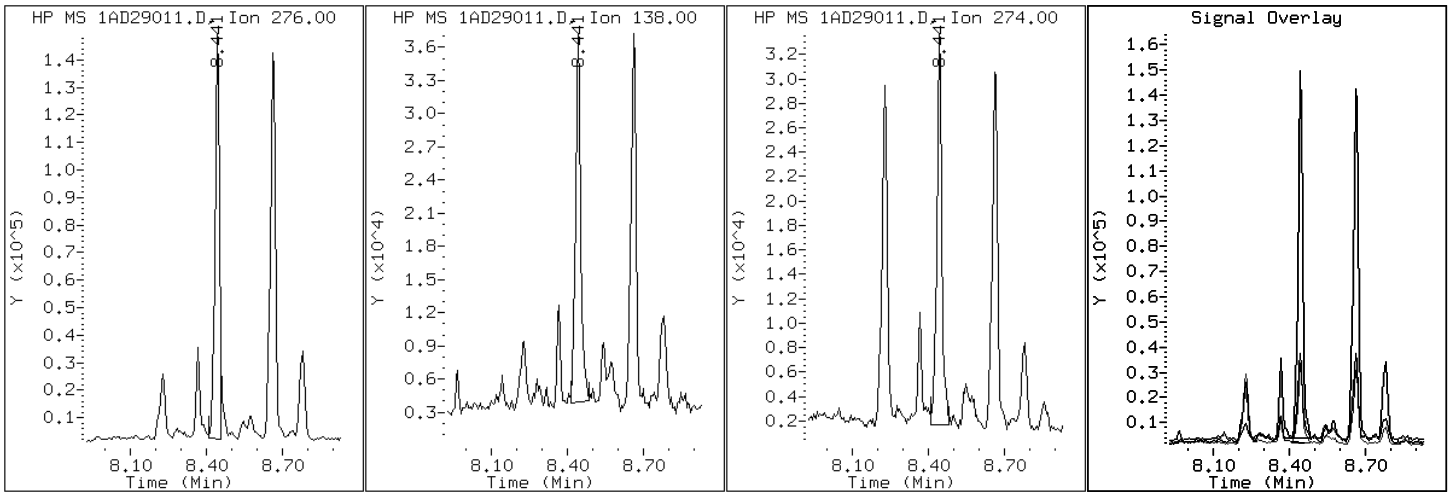
Client ID: CV0809A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a

Operator: SCC

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



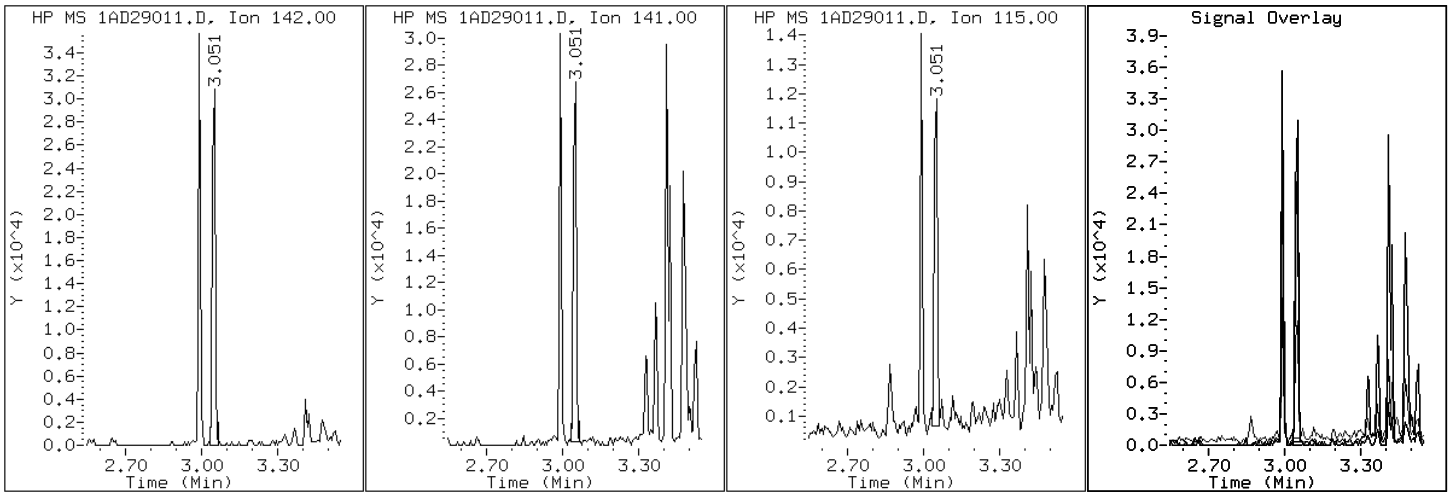
Data File: 1AD29011.D

Date: 29-APR-2013 14:39

Client ID: CV0809A-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1AD29011.D

Date: 29-APR-2013 14:39

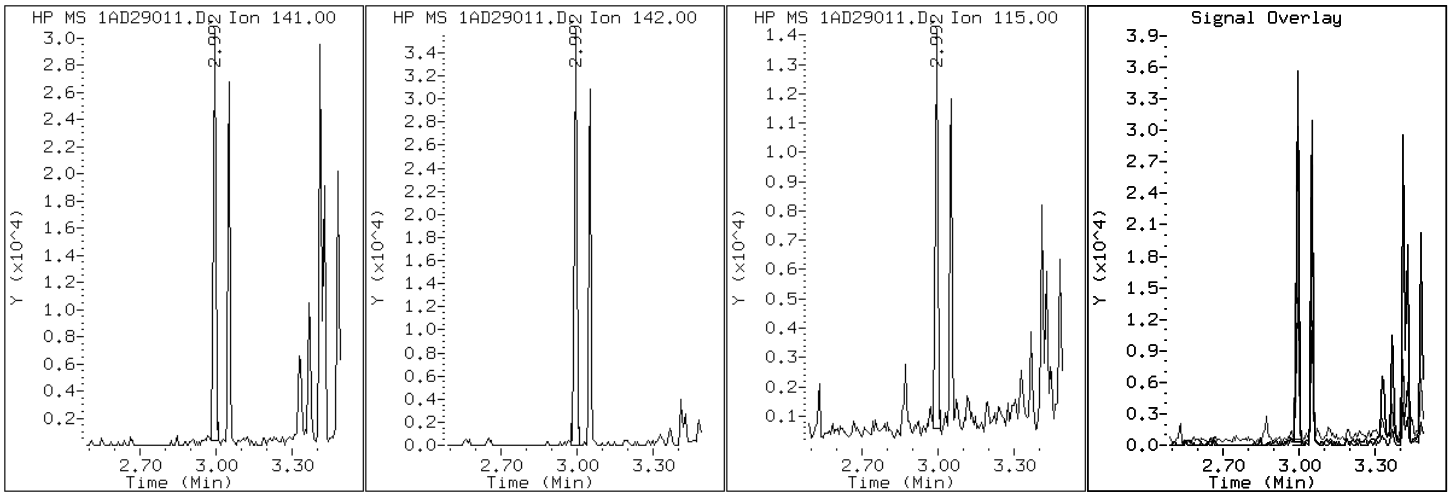
Client ID: CV0809A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD29011.D

Date: 29-APR-2013 14:39

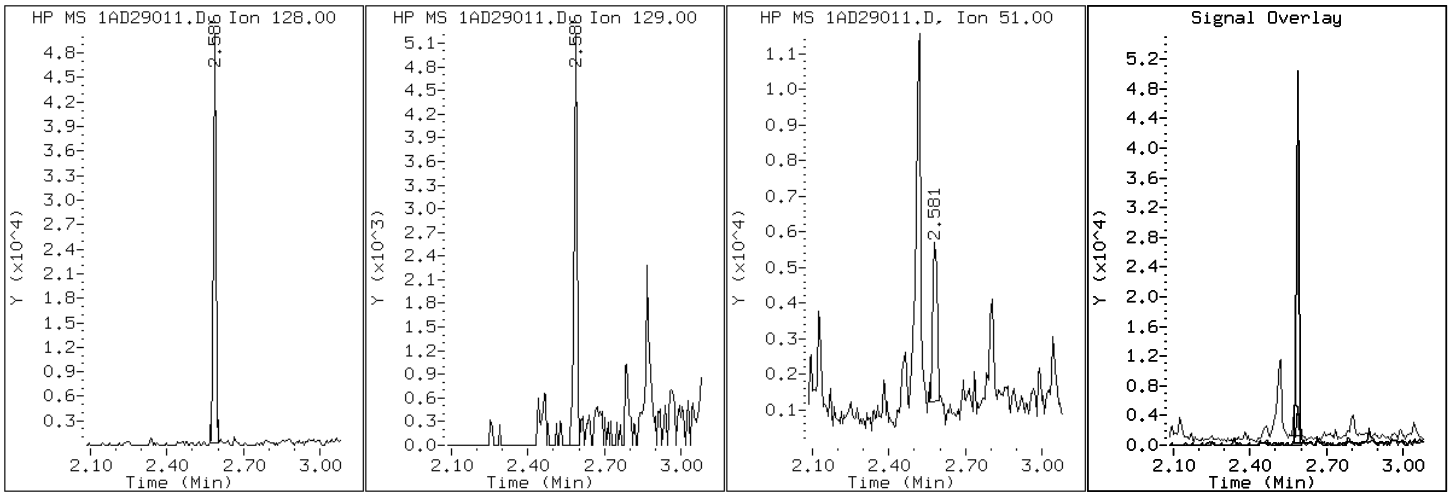
Client ID: CV0809A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a

Operator: SCC

2 Naphthalene



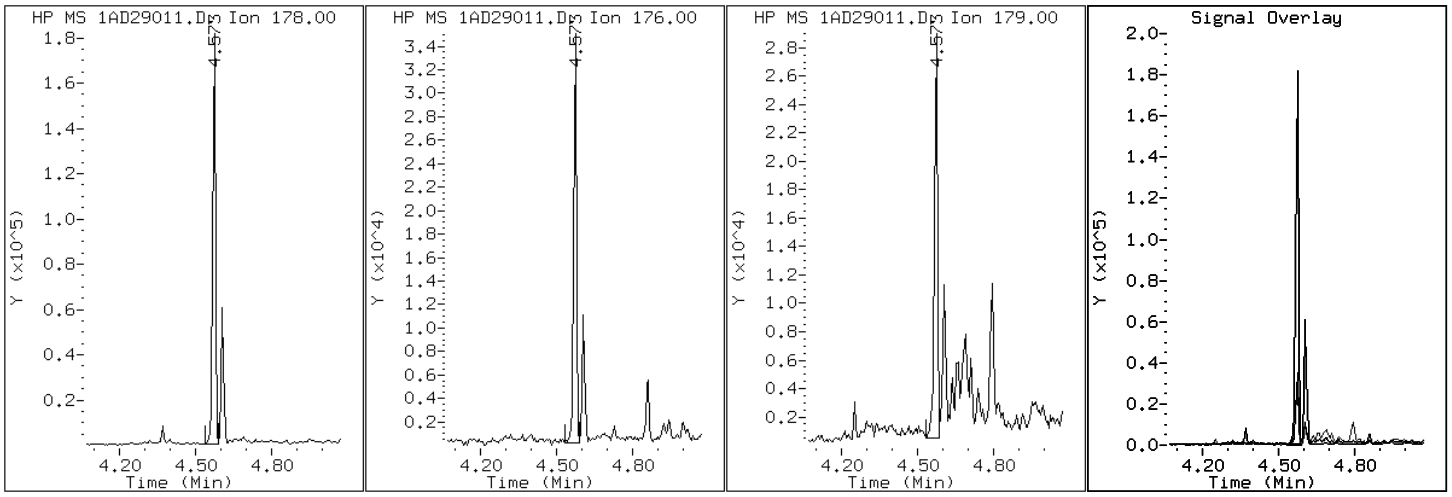
Data File: 1AD29011.D

Date: 29-APR-2013 14:39

Client ID: CV0809A-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a Operator: SCC

11 Phenanthrene



Data File: 1AD29011.D

Date: 29-APR-2013 14:39

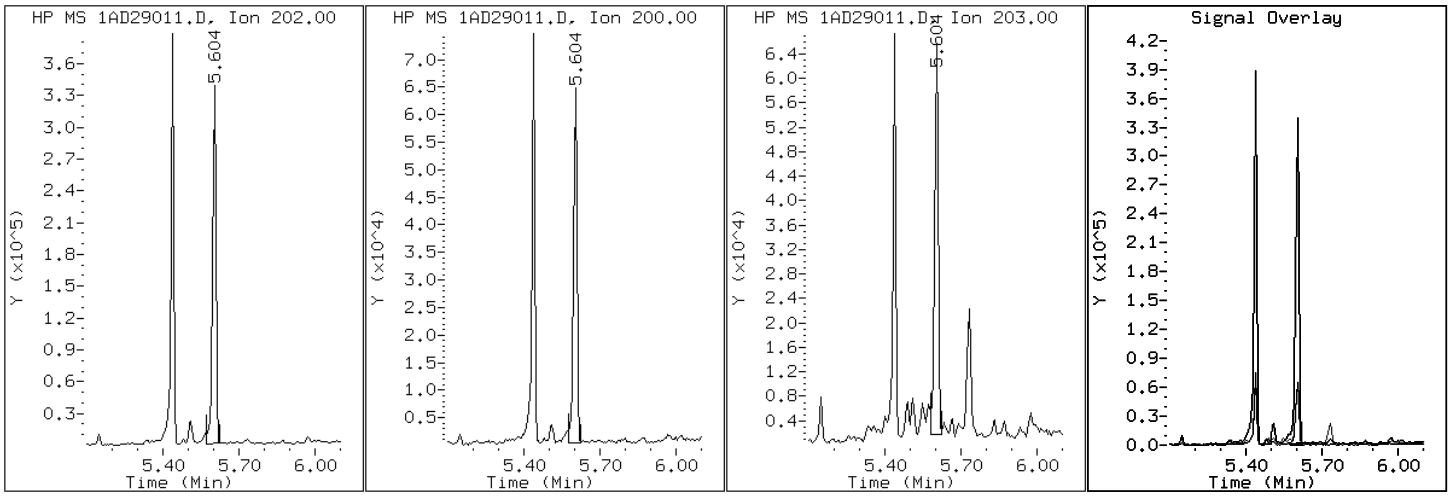
Client ID: CV0809A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-8-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD29011.D
Inj. Date and Time: 29-APR-2013 14:39
Instrument ID: BSMA5973.i
Client ID: CV0809A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

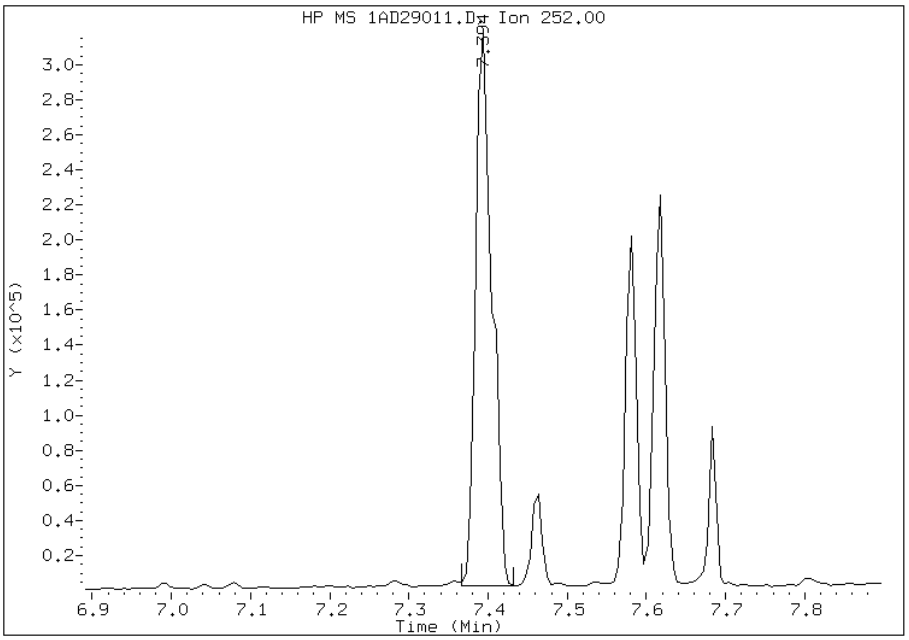
Processing Integration Results

RT: 7.39

Response: 448672

Amount: 9

Conc: 731



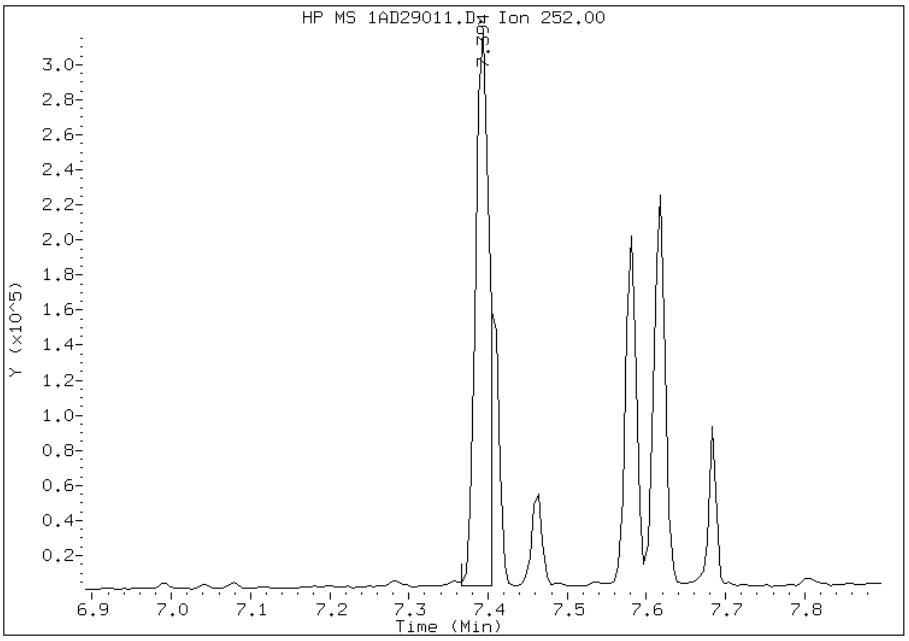
Manual Integration Results

RT: 7.39

Response: 376022

Amount: 7

Conc: 612



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:43
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29011.D
Inj. Date and Time: 29-APR-2013 14:39
Instrument ID: BSMA5973.i
Client ID: CV0809A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

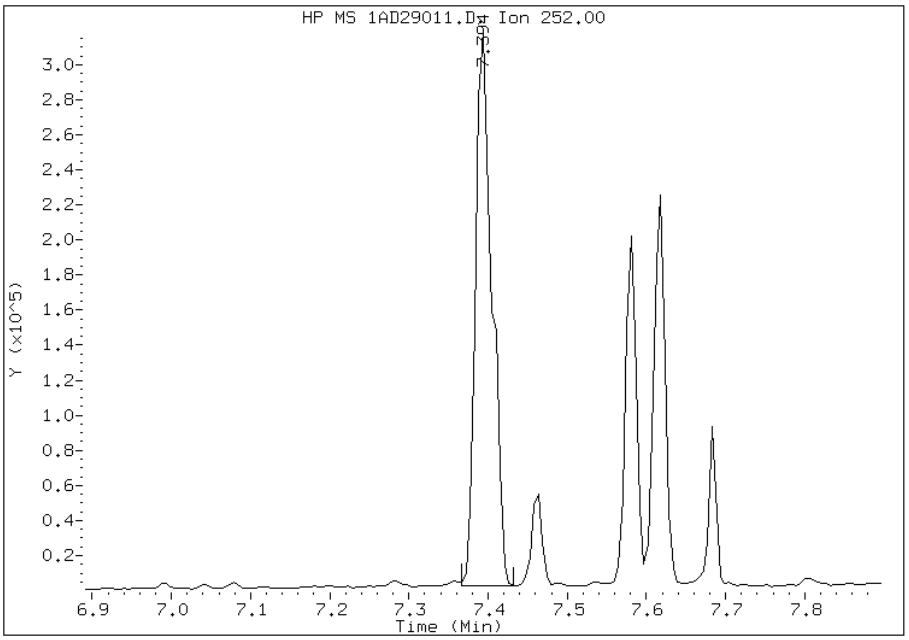
Processing Integration Results

RT: 7.39

Response: 448672

Amount: 8

Conc: 635



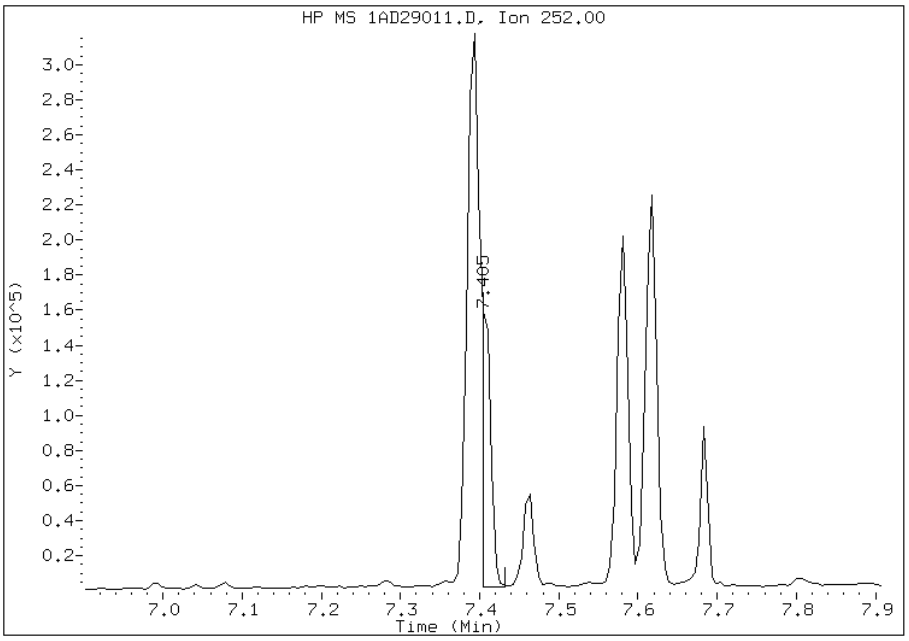
Manual Integration Results

RT: 7.40

Response: 123936

Amount: 2

Conc: 176



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29011.D
Inj. Date and Time: 29-APR-2013 14:39
Instrument ID: BSMA5973.i
Client ID: CV0809A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

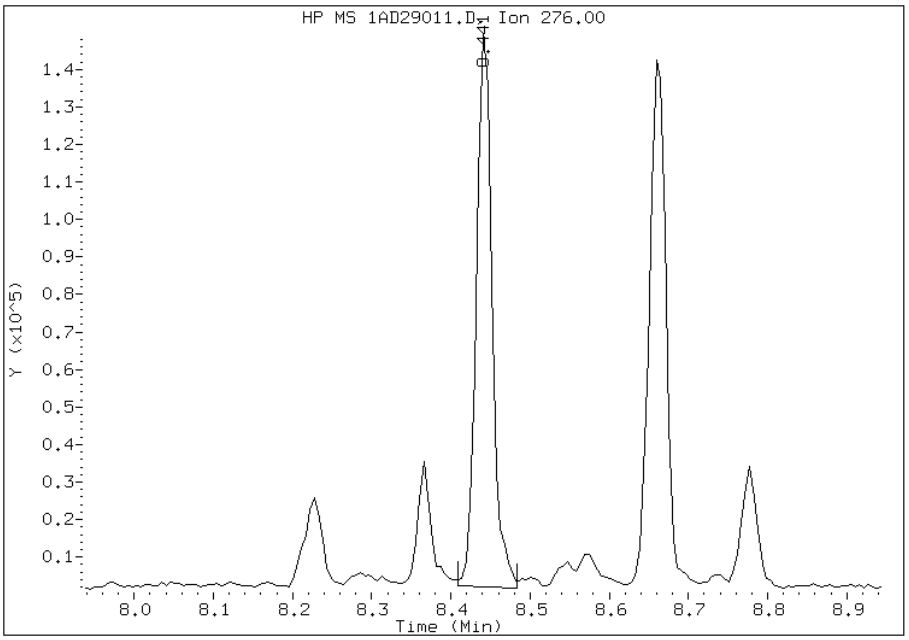
Processing Integration Results

RT: 8.44

Response: 201298

Amount: 4

Conc: 349



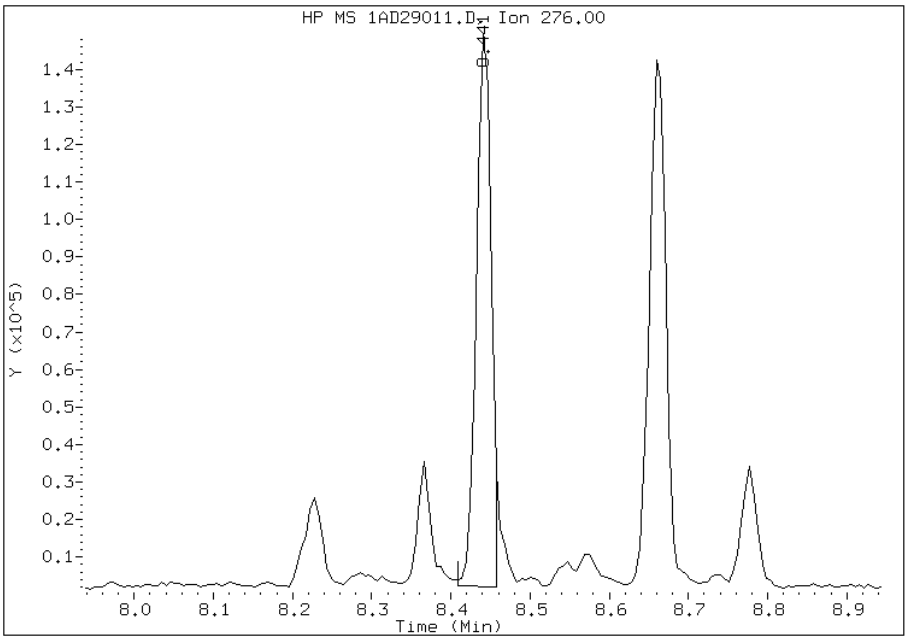
Manual Integration Results

RT: 8.44

Response: 189073

Amount: 4

Conc: 328



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:44
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV1202A-CS | Lab Sample ID: 680-89695-9

Matrix: Solid | Lab File ID: 1AD29012.D

Analysis Method: 8270C LL | Date Collected: 04/23/2013 10:10

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 14.92(g) | Date Analyzed: 04/29/2013 14:54

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

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

% Moisture: 19.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136961 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	99
208-96-8	Acenaphthylene	29	J	200	25
120-12-7	Anthracene	44		42	21
56-55-3	Benzo[a]anthracene	150		40	19
50-32-8	Benzo[a]pyrene	130		52	26
205-99-2	Benzo[b]fluoranthene	220		61	30
191-24-2	Benzo[g,h,i]perylene	150		99	22
207-08-9	Benzo[k]fluoranthene	80		40	18
218-01-9	Chrysene	190		45	22
53-70-3	Dibenz(a,h)anthracene	39	J	99	20
206-44-0	Fluoranthene	200		99	20
86-73-7	Fluorene	99	U	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	130		99	35
90-12-0	1-Methylnaphthalene	130	J	200	22
91-57-6	2-Methylnaphthalene	160	J	200	35
91-20-3	Naphthalene	110	J	200	22
85-01-8	Phenanthrene	220		40	19
129-00-0	Pyrene	170		99	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29012.D
Lab Smp Id: 680-89695-A-9-A Client Smp ID: CV1202A-CS
Inj Date : 29-APR-2013 14:54
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89695-a-9-a
Misc Info : 680-89695-A-9-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 12
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	19.111	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.577	2.572	(1.000)	1879797	40.0000	
* 6 Acenaphthene-d10	164	3.608	3.603	(1.000)	938749	40.0000	
* 10 Phenanthrene-d10	188	4.559	4.554	(1.000)	1500128	40.0000	
$ 14 o-Terphenyl	230	4.858	4.859	(1.066)	33513	1.36583	452.6879
* 18 Chrysene-d12	240	6.579	6.574	(1.000)	1429633	40.0000	
* 23 Perylene-d12	264	7.668	7.663	(1.000)	1807382	40.0000	
2 Naphthalene	128	2.588	2.583	(1.004)	15086	0.32104	106.4047
3 2-Methylnaphthalene	141	2.994	2.989	(1.162)	12695	0.47121	156.1783
4 1-Methylnaphthalene	142	3.047	3.048	(1.182)	11674	0.39111	129.6284
5 Acenaphthylene	152	3.517	3.513	(0.975)	4779	0.08711	28.8708
11 Phenanthrene	178	4.575	4.570	(1.004)	28674	0.65984	218.6974
12 Anthracene	178	4.607	4.608	(1.011)	6053	0.13396	44.3999(Q)
13 Carbazole	167	4.735	4.736	(1.039)	4591	0.10532	34.9083
15 Fluoranthene	202	5.435	5.436	(1.192)	29864	0.59499	197.2027

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.601	5.601	(0.851)	28546	0.52338	173.4683
17 Benzo(a)anthracene	228	6.573	6.563	(0.999)	21410	0.45858	151.9907
19 Chrysene	228	6.595	6.595	(1.002)	26737	0.56448	187.0908
20 Benzo(b)fluoranthene	252	7.385	7.380	(0.963)	36390	0.66319	219.8068(M)
21 Benzo(k)fluoranthene	252	7.396	7.407	(0.964)	15208	0.24106	79.8966(M)
22 Benzo(a)pyrene	252	7.610	7.610	(0.992)	21724	0.39797	131.9033
24 Indeno(1,2,3-cd)pyrene	276	8.422	8.427	(1.098)	20026	0.38854	128.7783(M)
25 Dibenzo(a,h)anthracene	278	8.448	8.454	(1.102)	5620	0.11719	38.8411
26 Benzo(g,h,i)perylene	276	8.641	8.646	(1.127)	25255	0.43781	145.1081

QC Flag Legend

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

Data File: 1AD29012.D

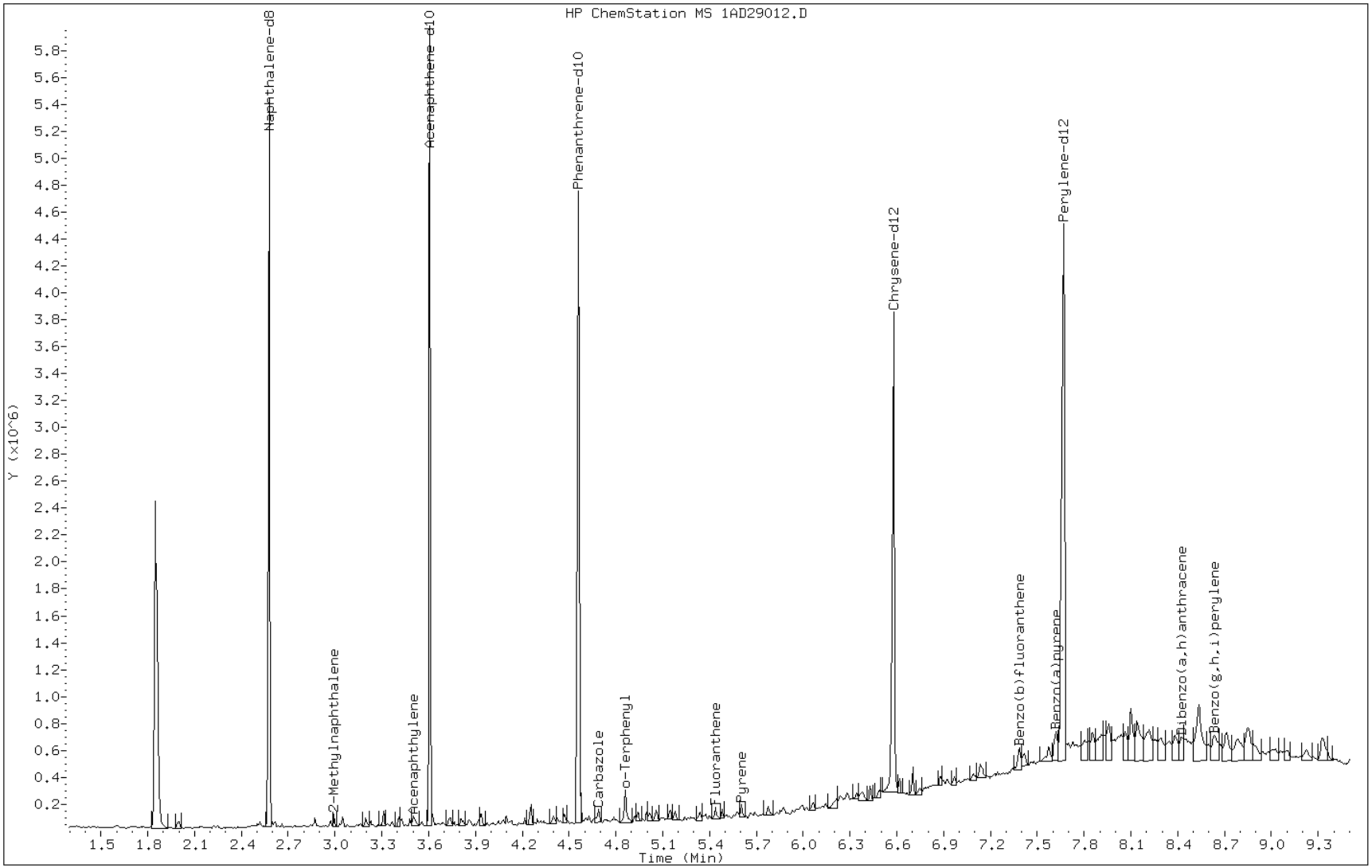
Date: 29-APR-2013 14:54

Client ID: CV1202A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-9-a

Operator: SCC



Data File: 1AD29012.D

Date: 29-APR-2013 14:54

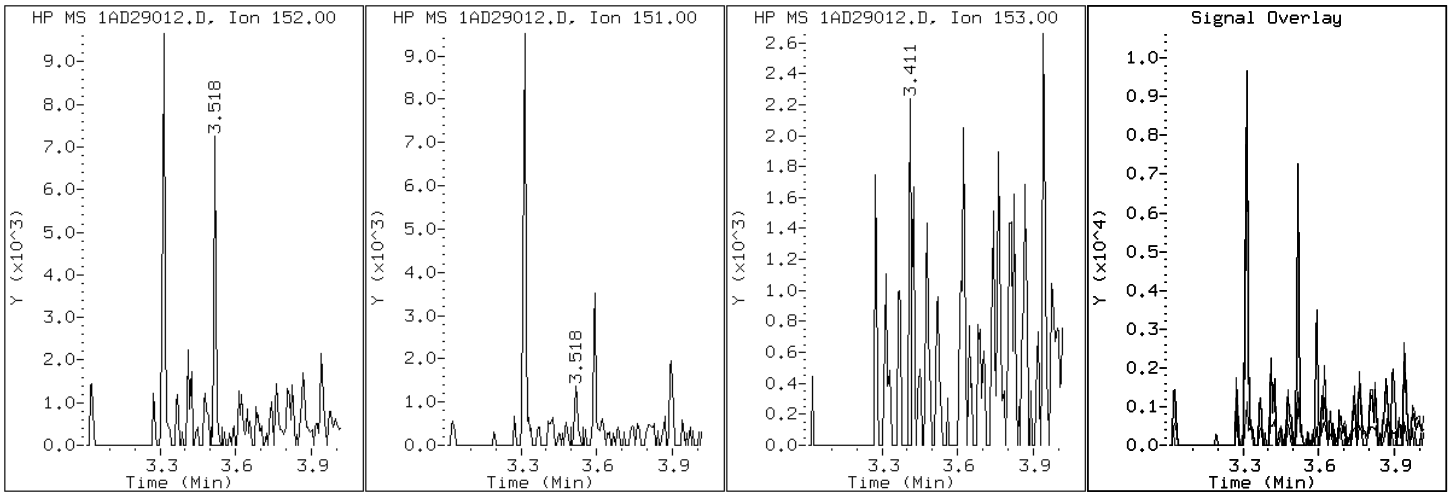
Client ID: CV1202A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-9-a

Operator: SCC

5 Acenaphthylene



Data File: 1AD29012.D

Date: 29-APR-2013 14:54

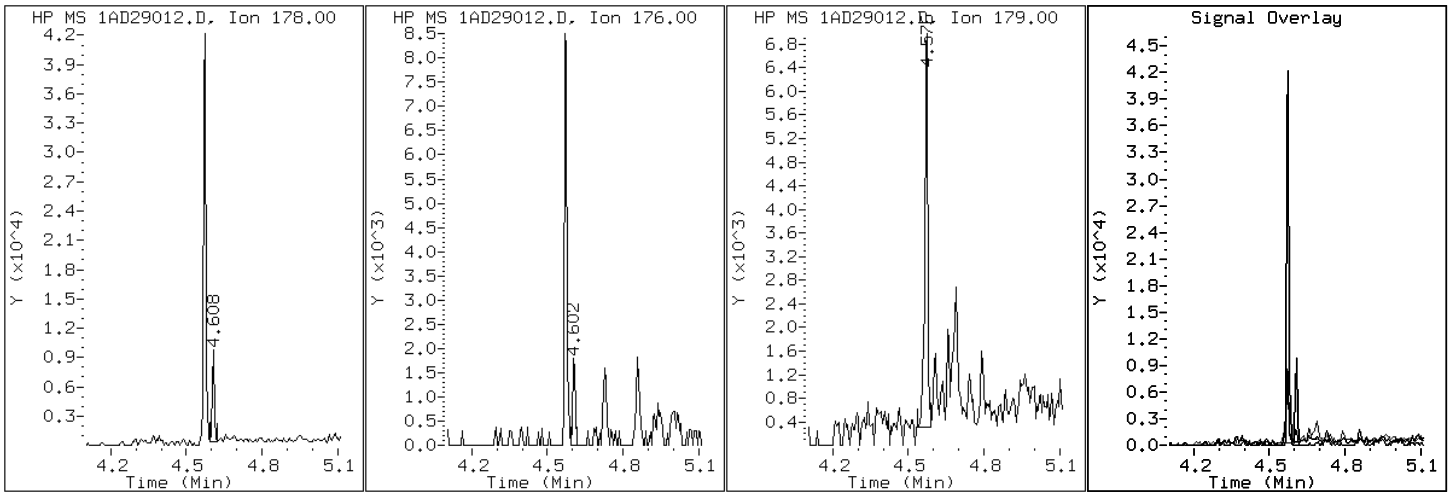
Client ID: CV1202A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-9-a

Operator: SCC

12 Anthracene



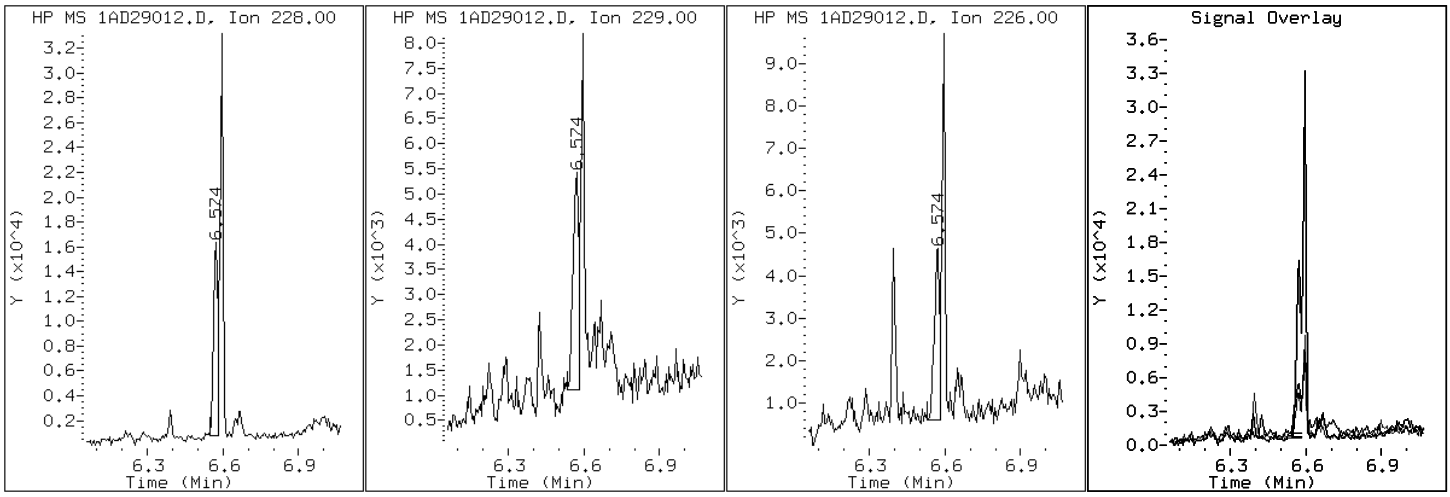
Data File: 1AD29012.D

Date: 29-APR-2013 14:54

Client ID: CV1202A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-9-a Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD29012.D

Date: 29-APR-2013 14:54

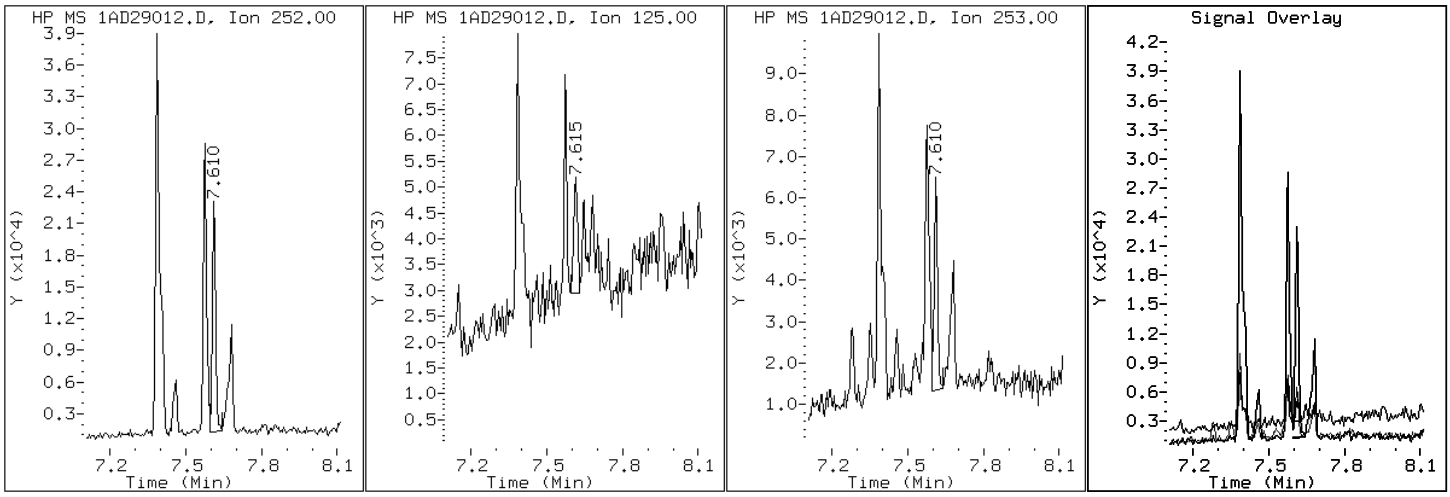
Client ID: CV1202A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-9-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD29012.D

Date: 29-APR-2013 14:54

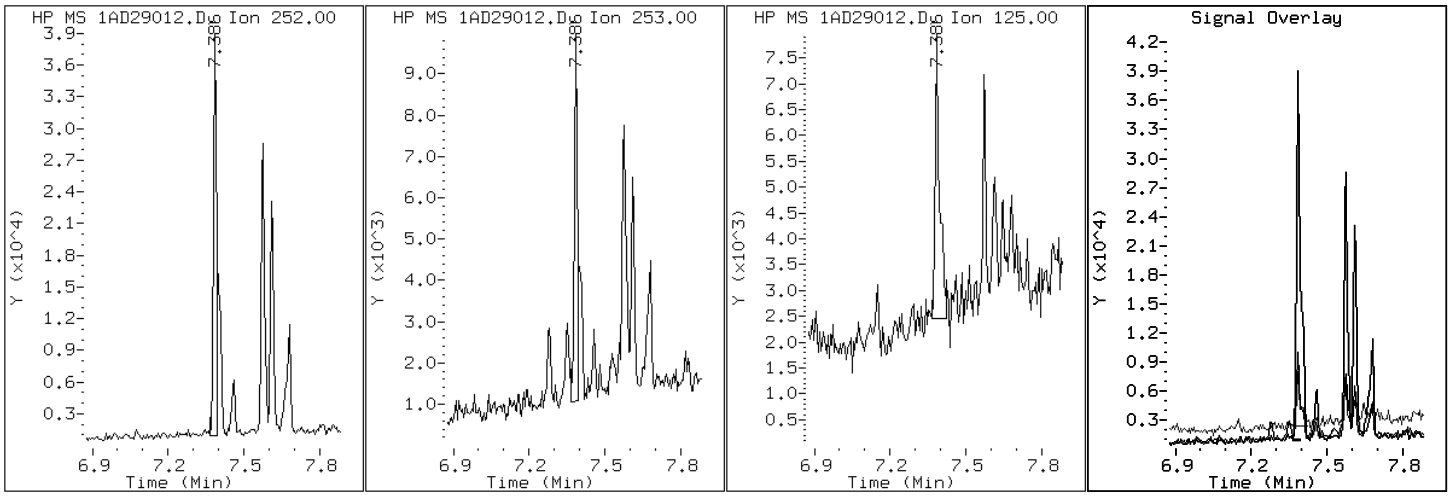
Client ID: CV1202A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-9-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD29012.D

Date: 29-APR-2013 14:54

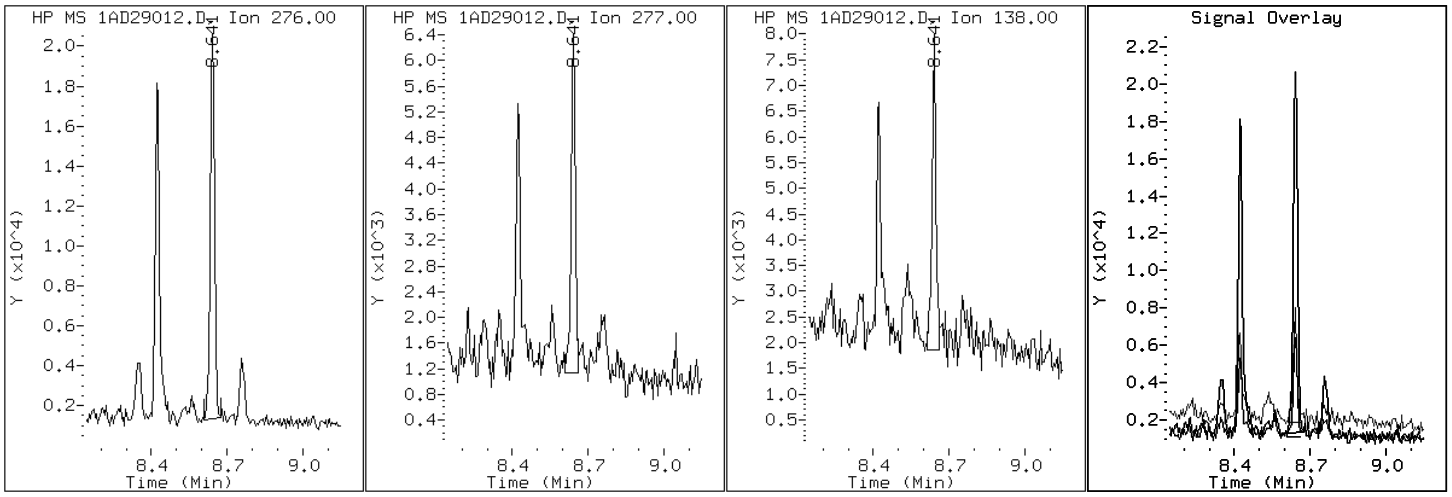
Client ID: CV1202A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-9-a

Operator: SCC

26 Benzo(g,h,i)perylene



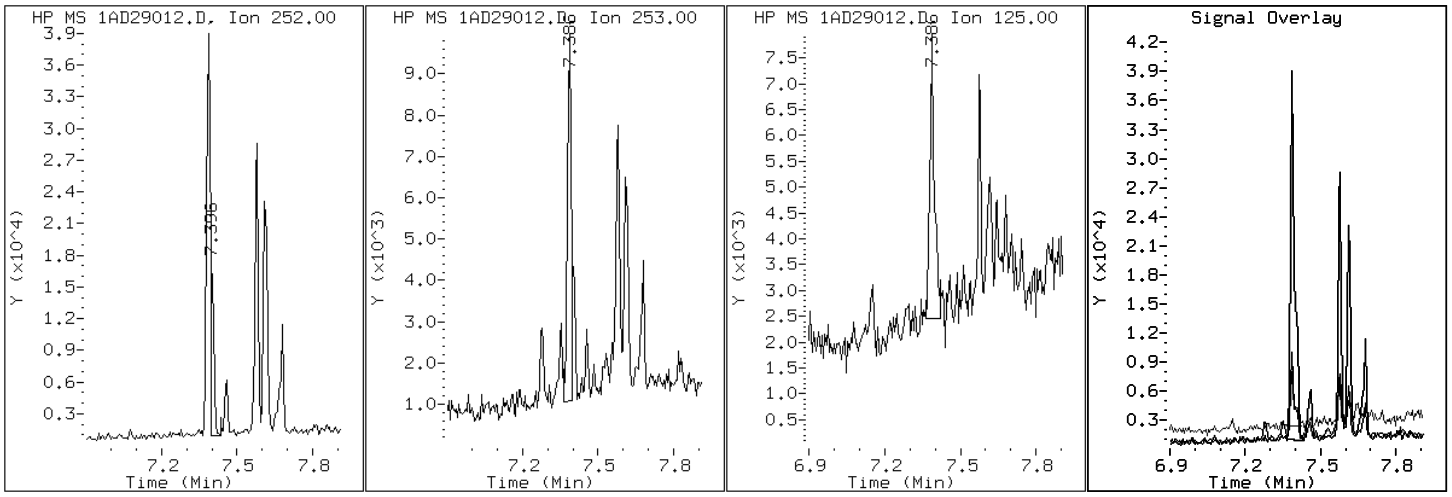
Data File: 1AD29012.D

Date: 29-APR-2013 14:54

Client ID: CV1202A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-9-a Operator: SCC

21 Benzo(k)fluoranthene



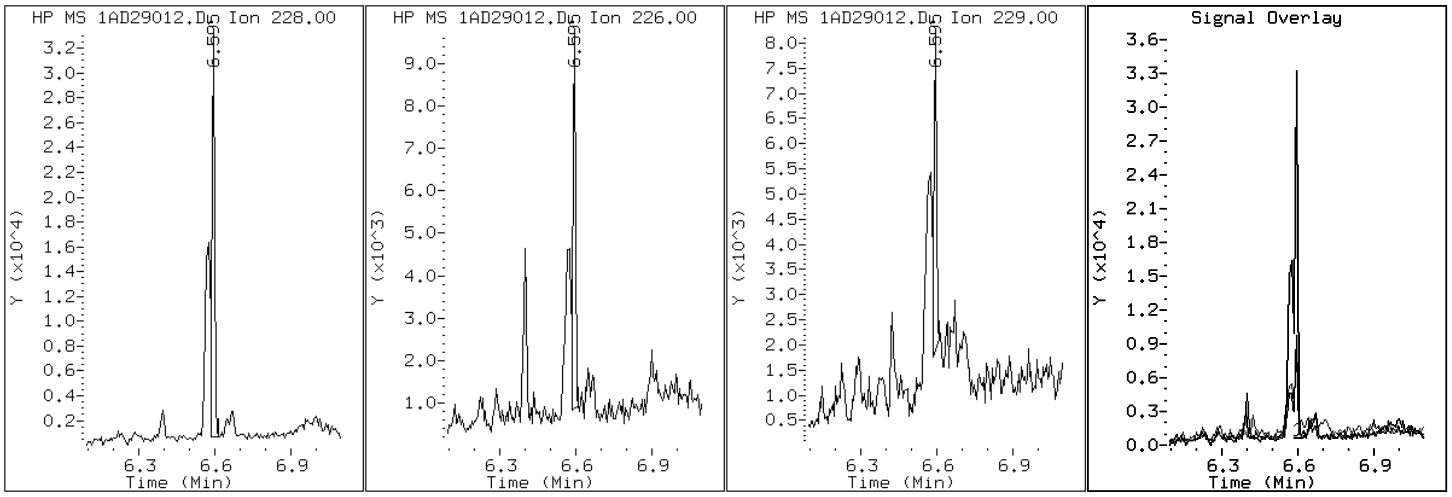
Data File: 1AD29012.D

Date: 29-APR-2013 14:54

Client ID: CV1202A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-9-a Operator: SCC

19 Chrysene



Data File: 1AD29012.D

Date: 29-APR-2013 14:54

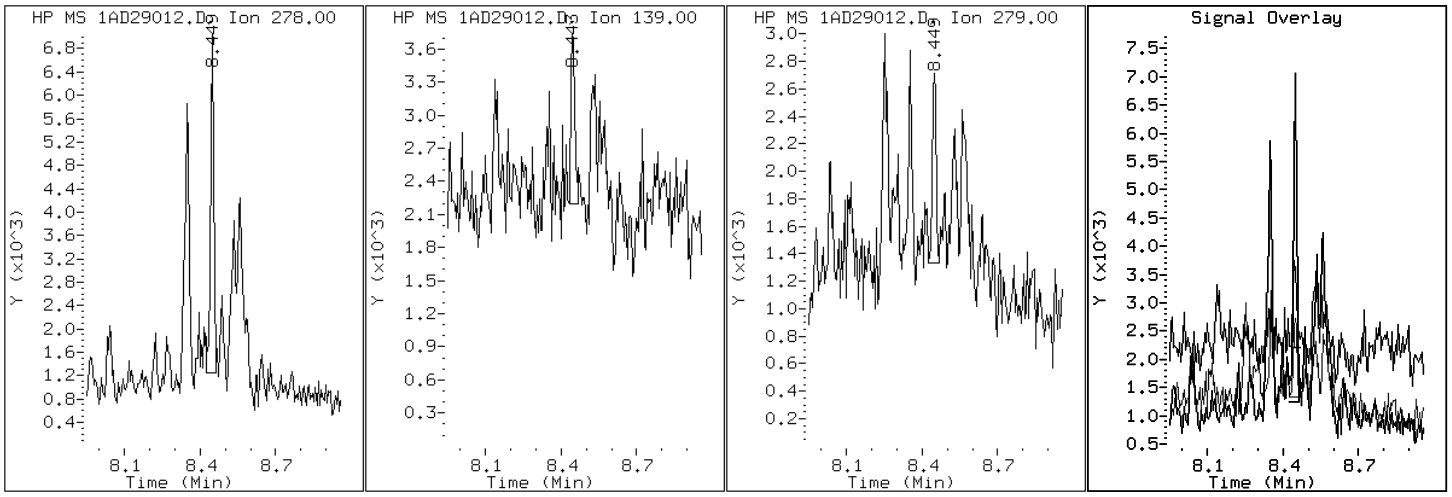
Client ID: CV1202A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-9-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD29012.D

Date: 29-APR-2013 14:54

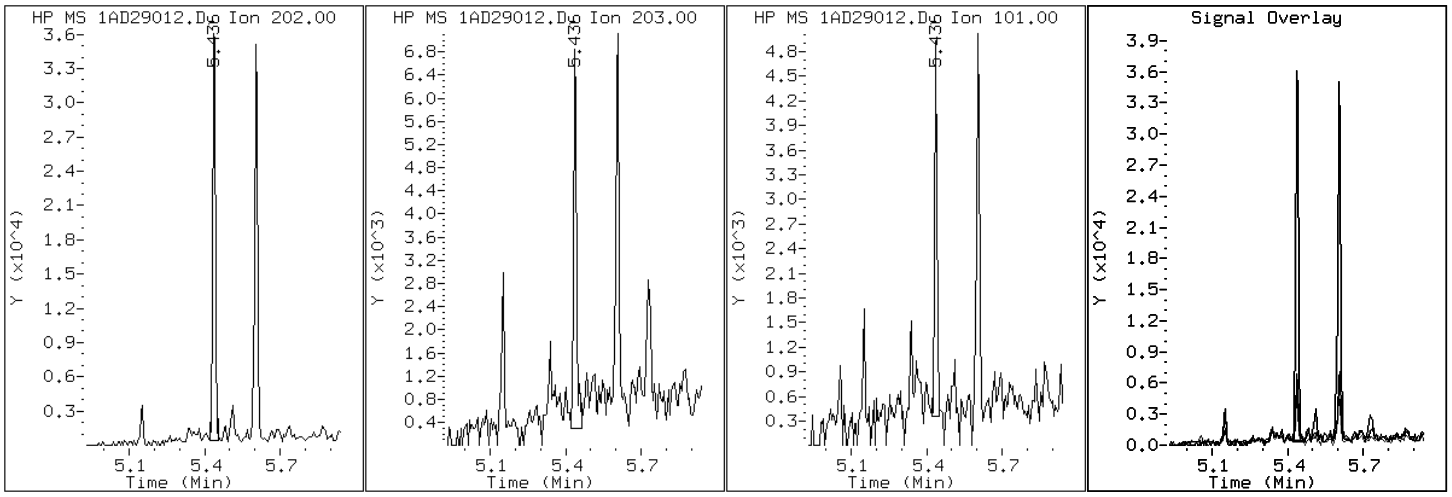
Client ID: CV1202A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-9-a

Operator: SCC

15 Fluoranthene



Data File: 1AD29012.D

Date: 29-APR-2013 14:54

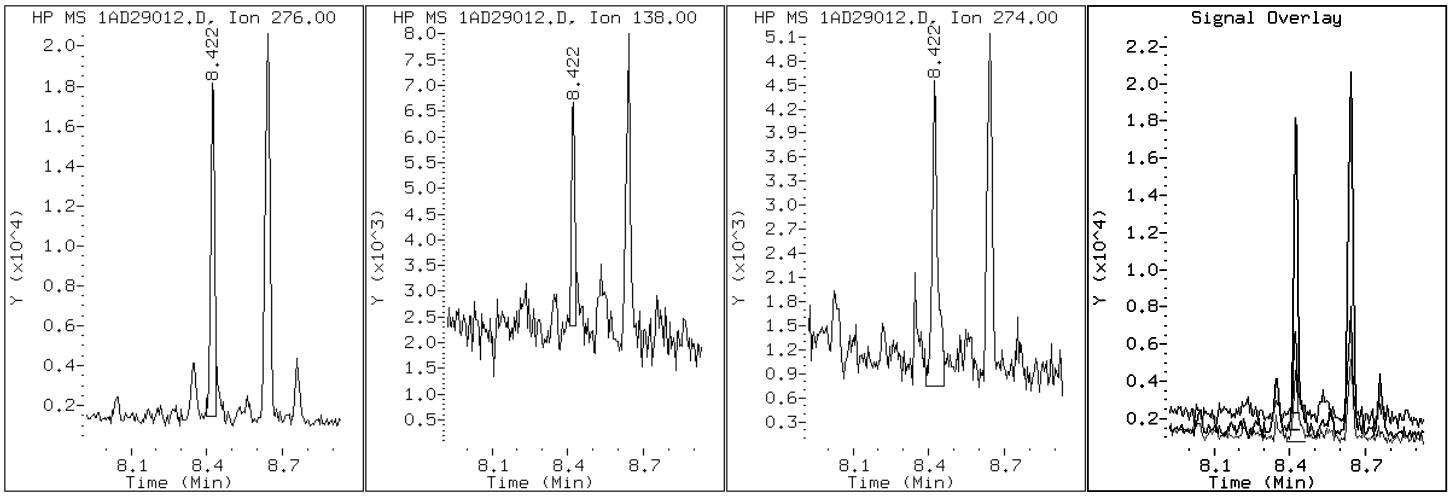
Client ID: CV1202A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-9-a

Operator: SCC

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



Data File: 1AD29012.D

Date: 29-APR-2013 14:54

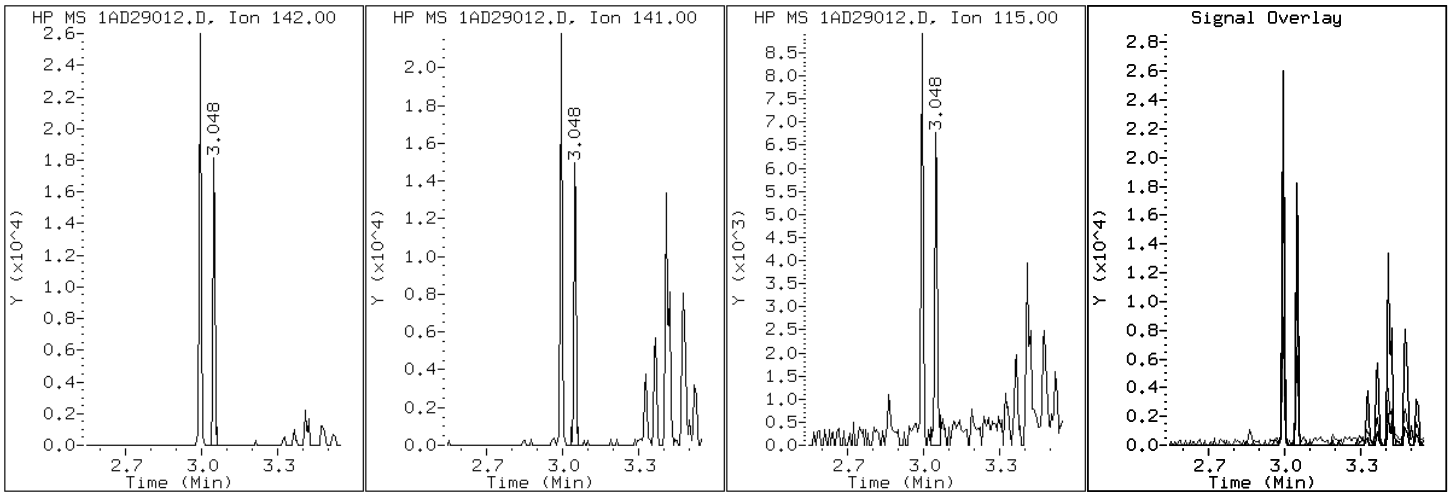
Client ID: CV1202A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-9-a

Operator: SCC

4 1-Methylnaphthalene



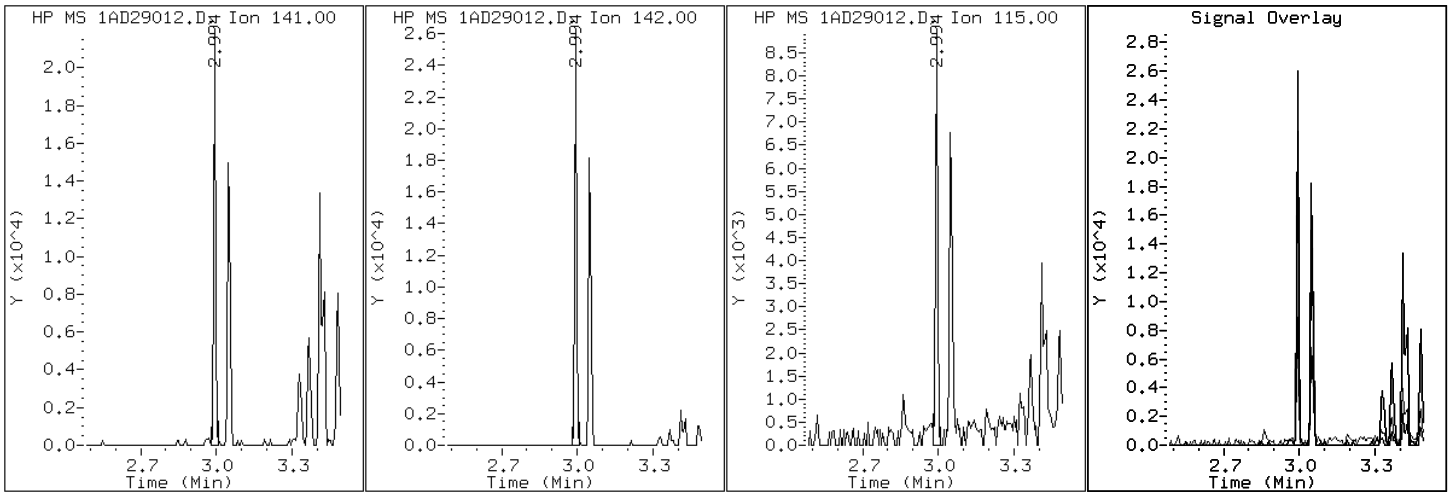
Data File: 1AD29012.D

Date: 29-APR-2013 14:54

Client ID: CV1202A-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-9-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD29012.D

Date: 29-APR-2013 14:54

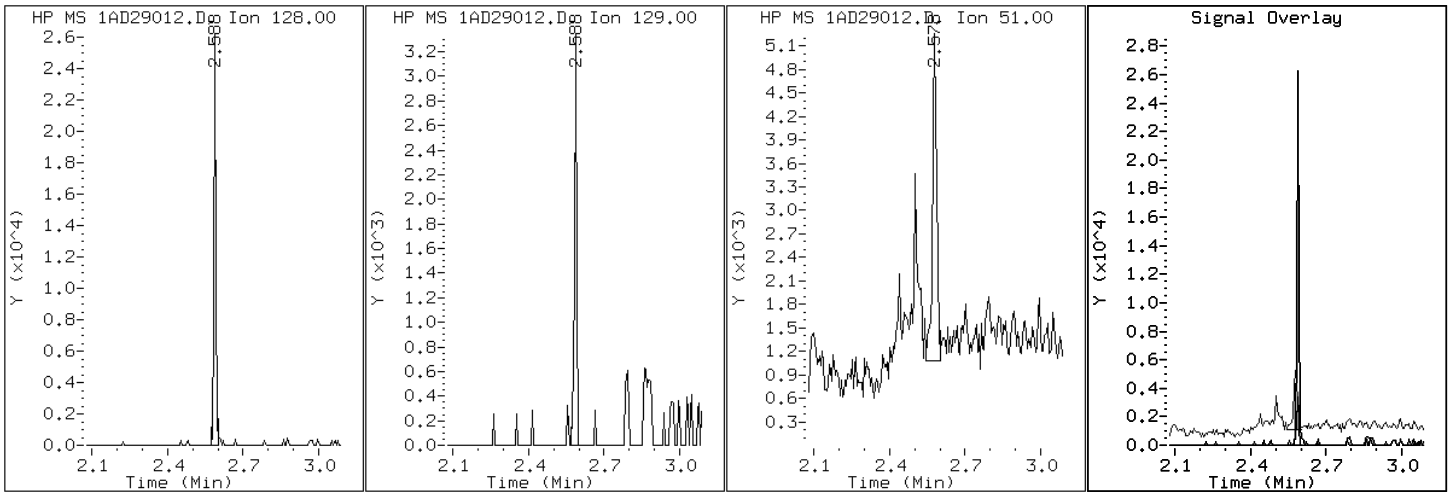
Client ID: CV1202A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-9-a

Operator: SCC

2 Naphthalene



Data File: 1AD29012.D

Date: 29-APR-2013 14:54

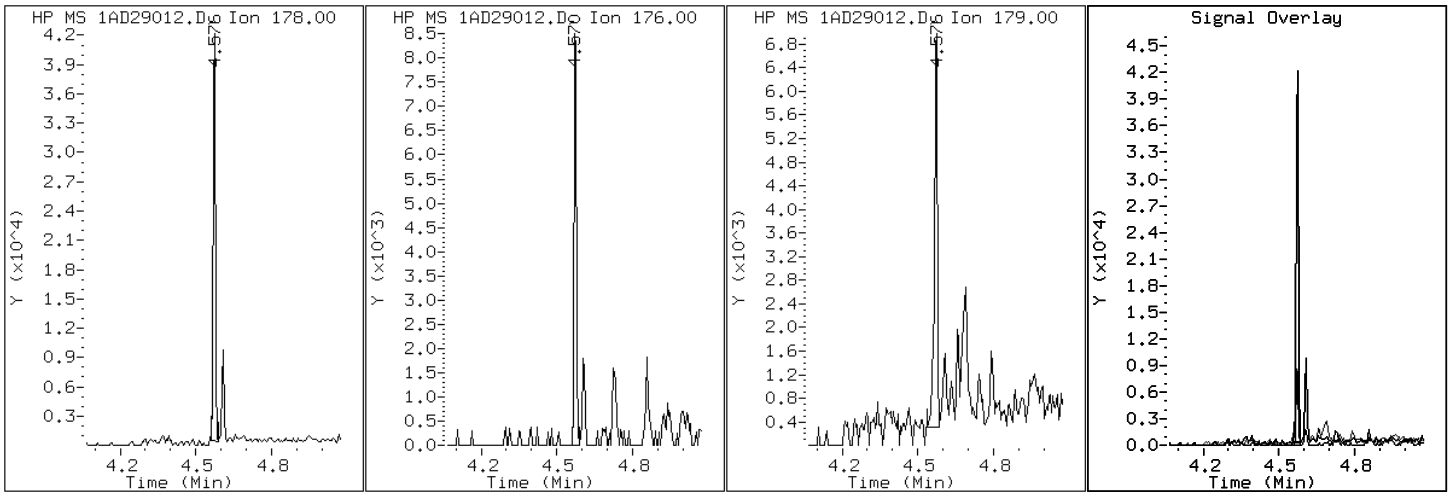
Client ID: CV1202A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-9-a

Operator: SCC

11 Phenanthrene



Data File: 1AD29012.D

Date: 29-APR-2013 14:54

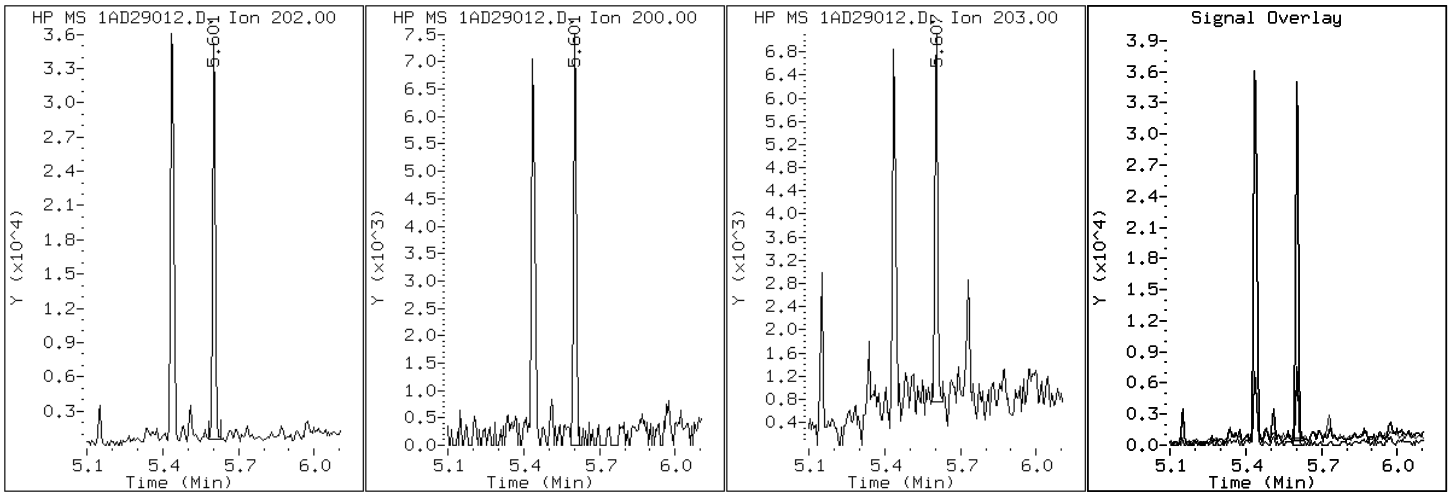
Client ID: CV1202A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-9-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD29012.D
Inj. Date and Time: 29-APR-2013 14:54
Instrument ID: BSMA5973.i
Client ID: CV1202A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

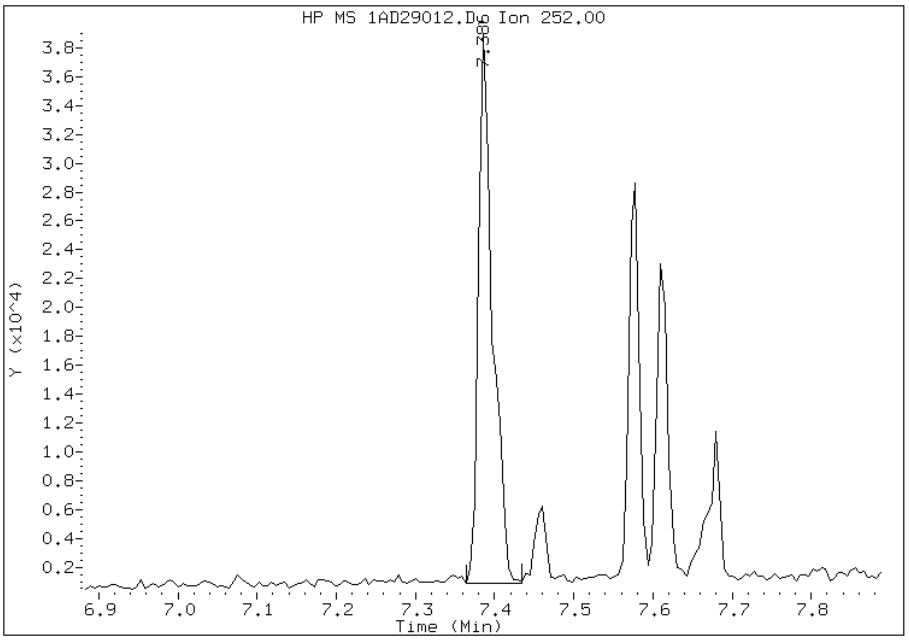
Processing Integration Results

RT: 7.39

Response: 46367

Amount: 1

Conc: 280



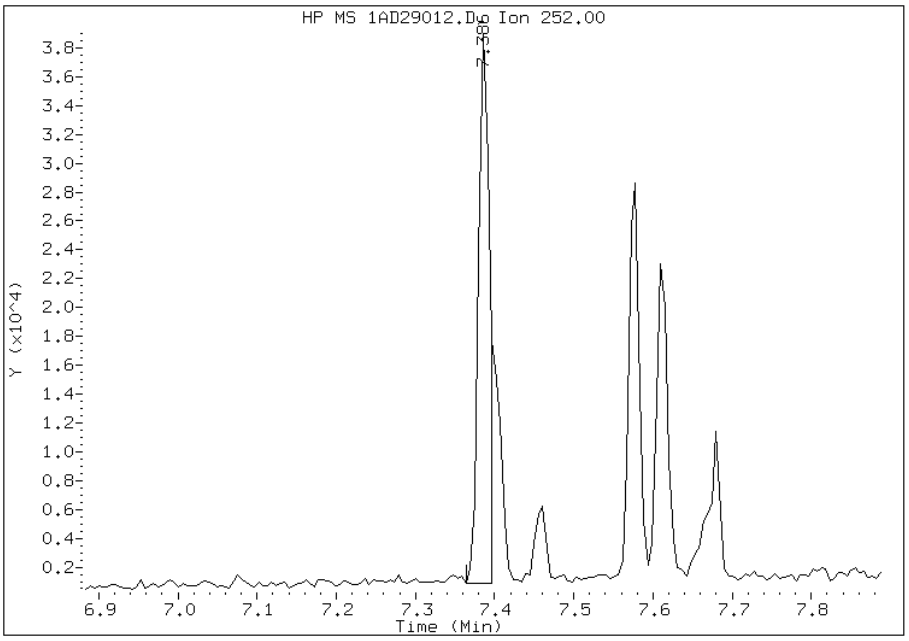
Manual Integration Results

RT: 7.39

Response: 36390

Amount: 1

Conc: 220



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:44
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29012.D
Inj. Date and Time: 29-APR-2013 14:54
Instrument ID: BSMA5973.i
Client ID: CV1202A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

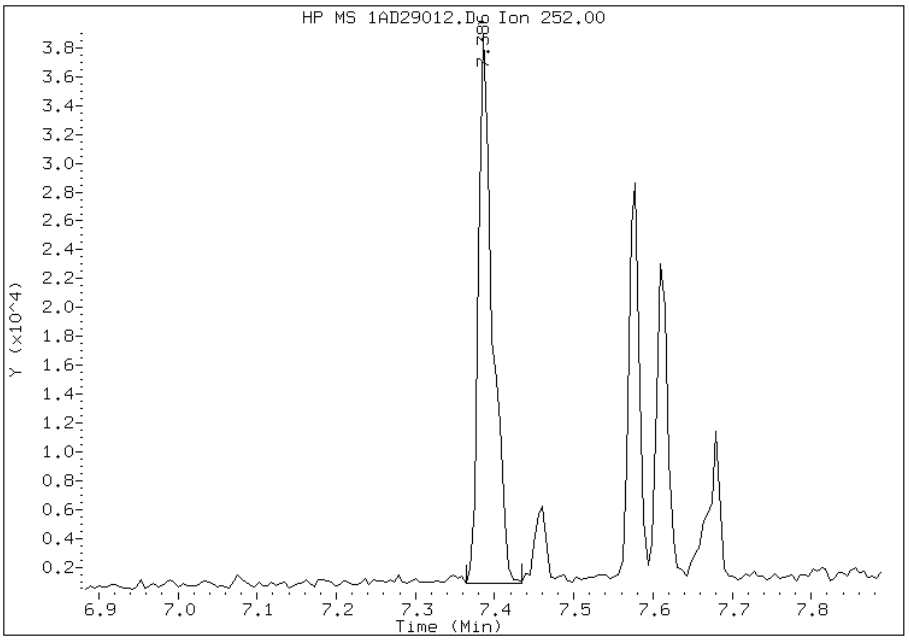
Processing Integration Results

RT: 7.39

Response: 46367

Amount: 1

Conc: 244



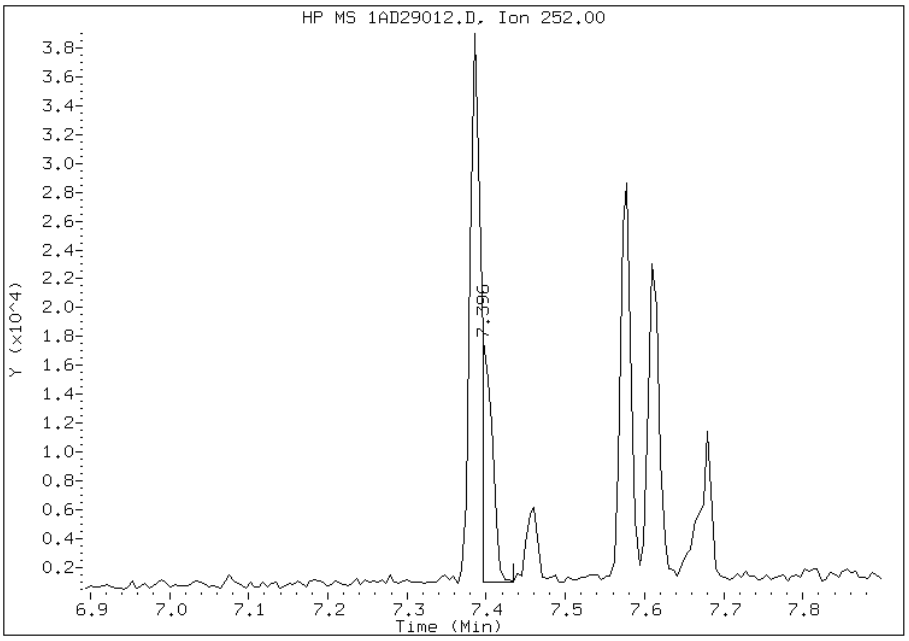
Manual Integration Results

RT: 7.40

Response: 15208

Amount: 0

Conc: 80



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29012.D
Inj. Date and Time: 29-APR-2013 14:54
Instrument ID: BSMA5973.i
Client ID: CV1202A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

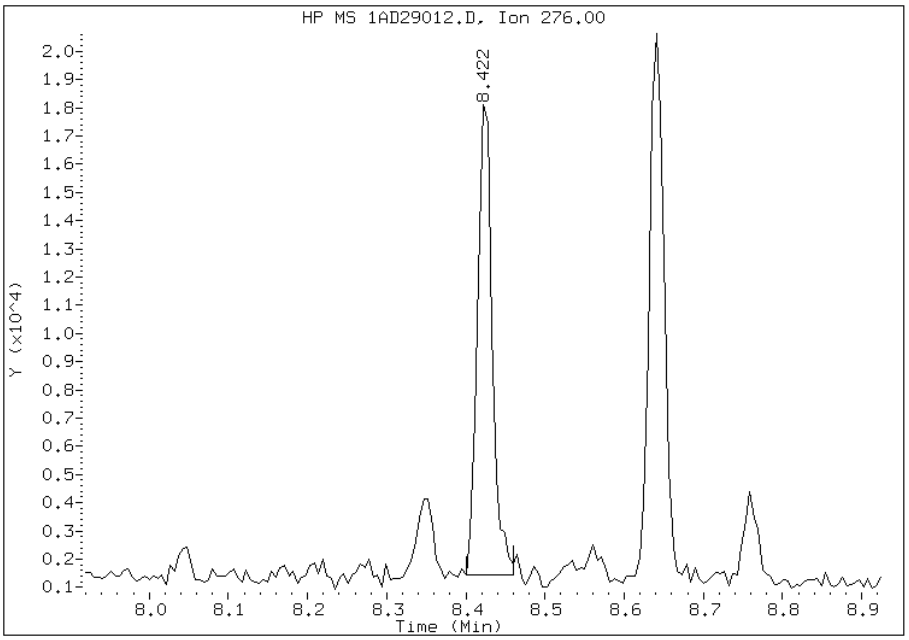
Processing Integration Results

RT: 8.42

Response: 21358

Amount: 0

Conc: 137



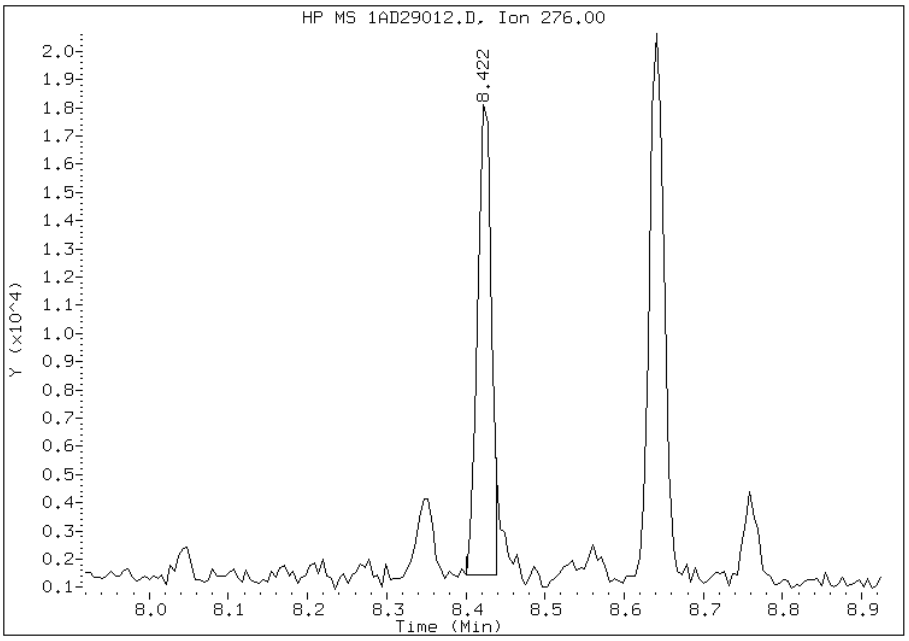
Manual Integration Results

RT: 8.42

Response: 20026

Amount: 0

Conc: 129



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV1202B-CS | Lab Sample ID: 680-89695-10

Matrix: Solid | Lab File ID: 1AD29013.D

Analysis Method: 8270C LL | Date Collected: 04/23/2013 10:20

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 15.04(g) | Date Analyzed: 04/29/2013 15:09

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

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

% Moisture: 24.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136961 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	96	J	210	26
120-12-7	Anthracene	180		44	22
56-55-3	Benzo[a]anthracene	410		42	21
50-32-8	Benzo[a]pyrene	390		55	27
205-99-2	Benzo[b]fluoranthene	610		64	32
191-24-2	Benzo[g,h,i]perylene	340		110	23
207-08-9	Benzo[k]fluoranthene	230		42	19
218-01-9	Chrysene	540		47	24
53-70-3	Dibenz(a,h)anthracene	120		110	22
206-44-0	Fluoranthene	720		110	21
86-73-7	Fluorene	50	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	330		110	37
90-12-0	1-Methylnaphthalene	440		210	23
91-57-6	2-Methylnaphthalene	460		210	37
91-20-3	Naphthalene	340		210	23
85-01-8	Phenanthrene	700		42	21
129-00-0	Pyrene	580		110	19

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\BSMA5973.i\1A042913.b\1AD29013.D
Lab Smp Id: 680-89695-A-10-A Client Smp ID: CV1202B-CS
Inj Date : 29-APR-2013 15:09
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89695-a-10-a
Misc Info : 680-89695-A-10-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 13
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	24.201	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.576	2.572	(1.000)	1695352	40.0000	
* 6 Acenaphthene-d10	164	3.607	3.603	(1.000)	838081	40.0000	
* 10 Phenanthrene-d10	188	4.558	4.554	(1.000)	1336916	40.0000	
$ 14 o-Terphenyl	230	4.857	4.859	(1.066)	33949	1.55251	544.7317
* 18 Chrysene-d12	240	6.582	6.574	(1.000)	1361637	40.0000	
* 23 Perylene-d12	264	7.672	7.663	(1.000)	1707144	40.0000	
2 Naphthalene	128	2.587	2.583	(1.004)	40649	0.95915	336.5377
3 2-Methylnaphthalene	141	2.993	2.989	(1.162)	31656	1.30285	457.1315
4 1-Methylnaphthalene	142	3.051	3.048	(1.185)	34064	1.26539	443.9902
5 Acenaphthylene	152	3.516	3.513	(0.975)	13381	0.27319	95.8561
9 Fluorene	166	3.938	3.935	(1.092)	4441	0.14370	50.4212
11 Phenanthrene	178	4.574	4.570	(1.004)	77707	2.00649	704.0210
12 Anthracene	178	4.606	4.608	(1.011)	20618	0.51201	179.6505
13 Carbazole	167	4.739	4.736	(1.040)	11350	0.29217	102.5152

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.439	5.436	(1.193)	91640	2.04867	718.8200
16 Pyrene	202	5.605	5.601	(0.851)	85578	1.64740	578.0245
17 Benzo(a)anthracene	228	6.572	6.563	(0.998)	52012	1.16967	410.4054
19 Chrysene	228	6.593	6.595	(1.002)	69906	1.54958	543.7051
20 Benzo(b)fluoranthene	252	7.389	7.380	(0.963)	90657	1.74919	613.7423(M)
21 Benzo(k)fluoranthene	252	7.400	7.407	(0.964)	39169	0.65732	230.6347(QM)
22 Benzo(a)pyrene	252	7.614	7.610	(0.992)	57744	1.11995	392.9601
24 Indeno(1,2,3-cd)pyrene	276	8.431	8.427	(1.099)	45379	0.93214	327.0612(M)
25 Dibenzo(a,h)anthracene	278	8.452	8.454	(1.102)	14892	0.32877	115.3543
26 Benzo(g,h,i)perylene	276	8.650	8.646	(1.127)	53220	0.97678	342.7243

QC Flag Legend

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

Data File: 1AD29013.D

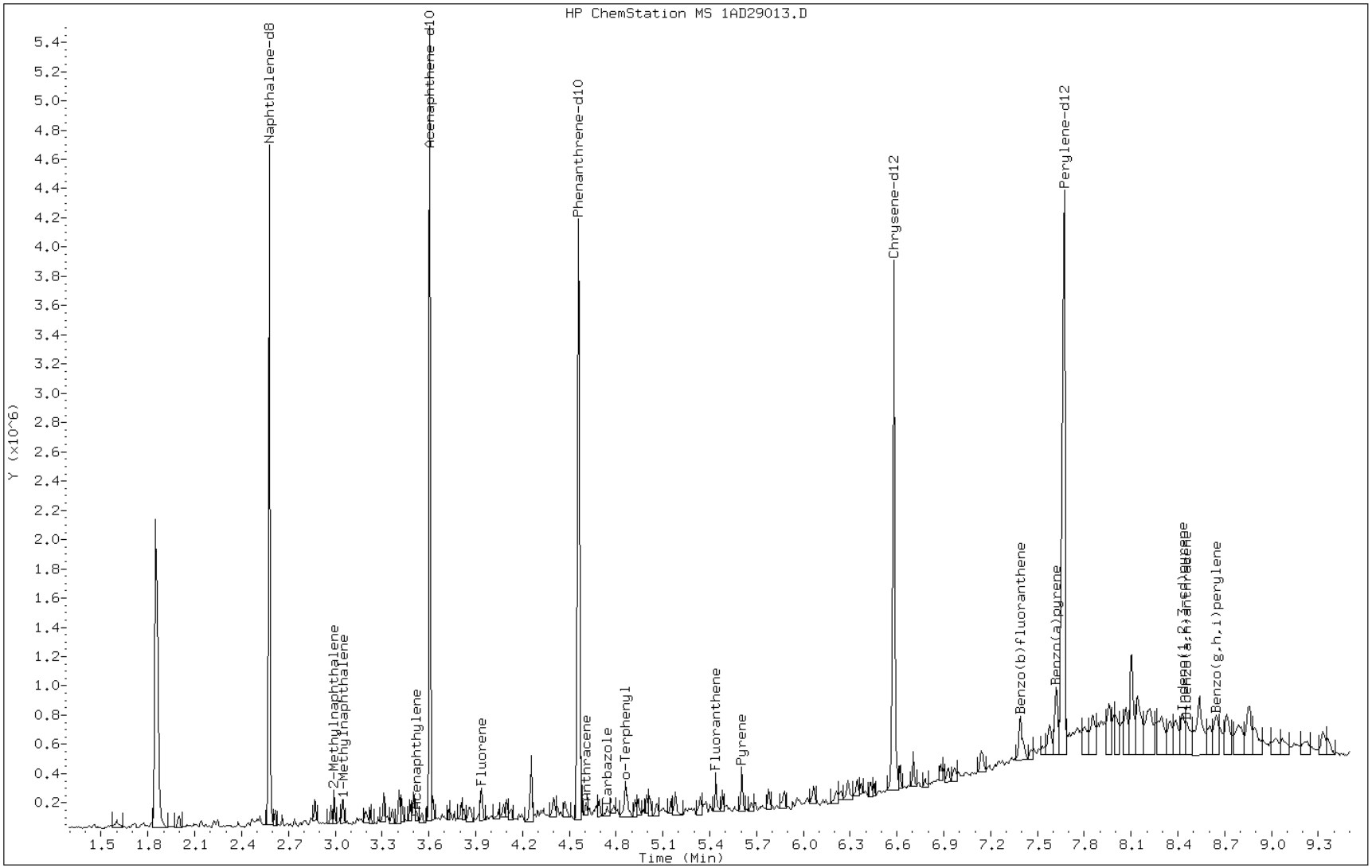
Date: 29-APR-2013 15:09

Client ID: CV1202B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a

Operator: SCC



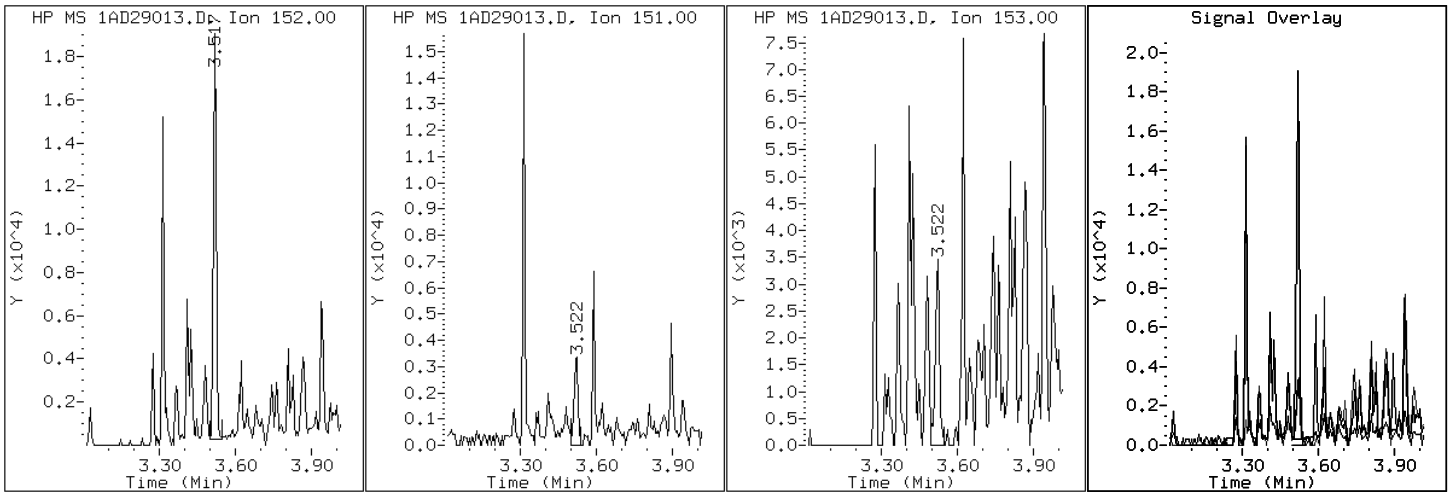
Data File: 1AD29013.D

Date: 29-APR-2013 15:09

Client ID: CV1202B-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a Operator: SCC

5 Acenaphthylene



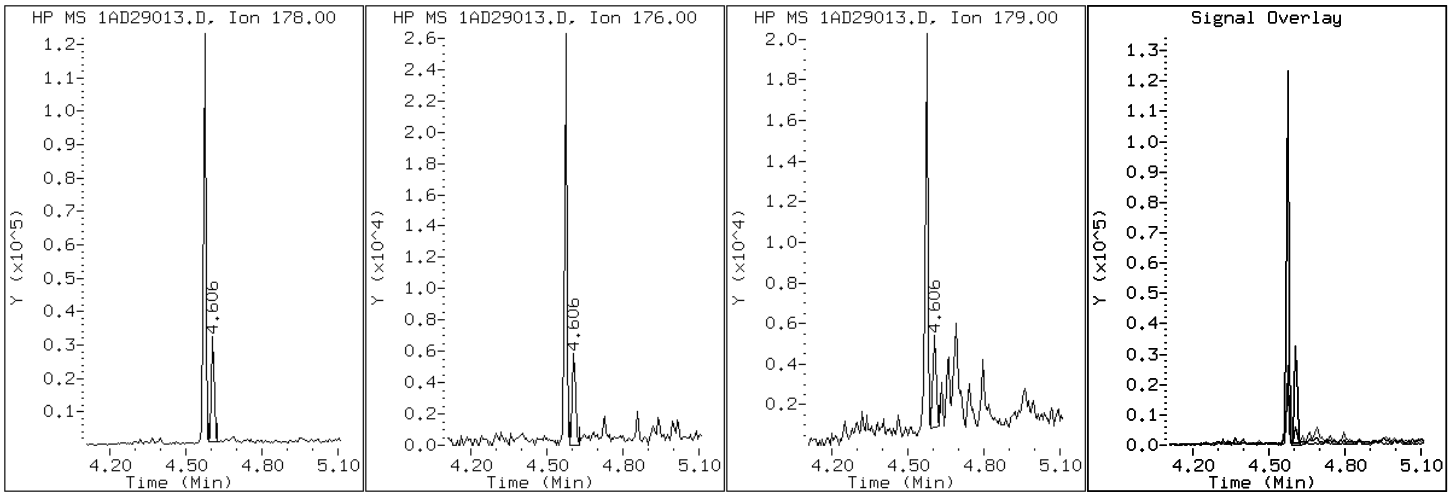
Data File: 1AD29013.D

Date: 29-APR-2013 15:09

Client ID: CV1202B-CS | Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a | Operator: SCC

12 Anthracene



Data File: 1AD29013.D

Date: 29-APR-2013 15:09

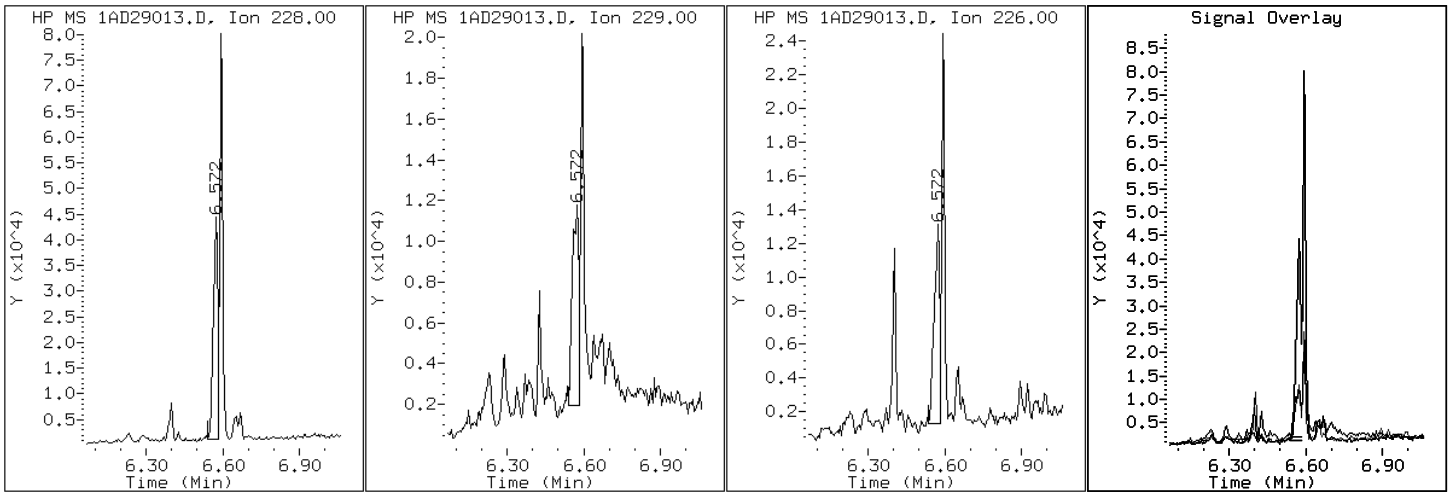
Client ID: CV1202B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a

Operator: SCC

17 Benzo(a)anthracene



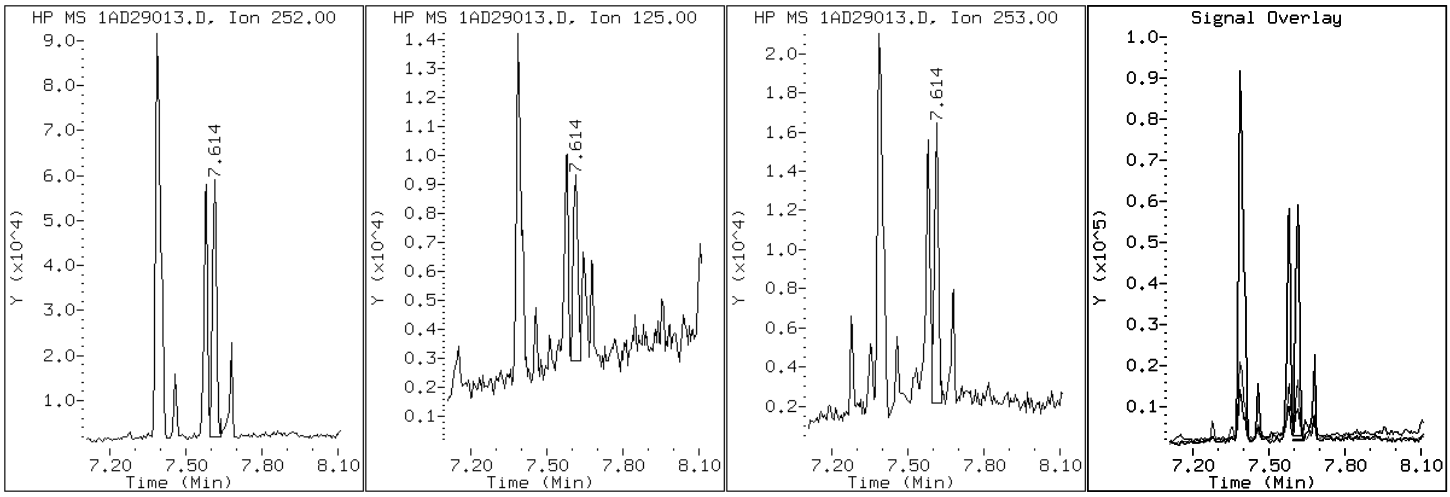
Data File: 1AD29013.D

Date: 29-APR-2013 15:09

Client ID: CV1202B-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a Operator: SCC

22 Benzo(a)pyrene



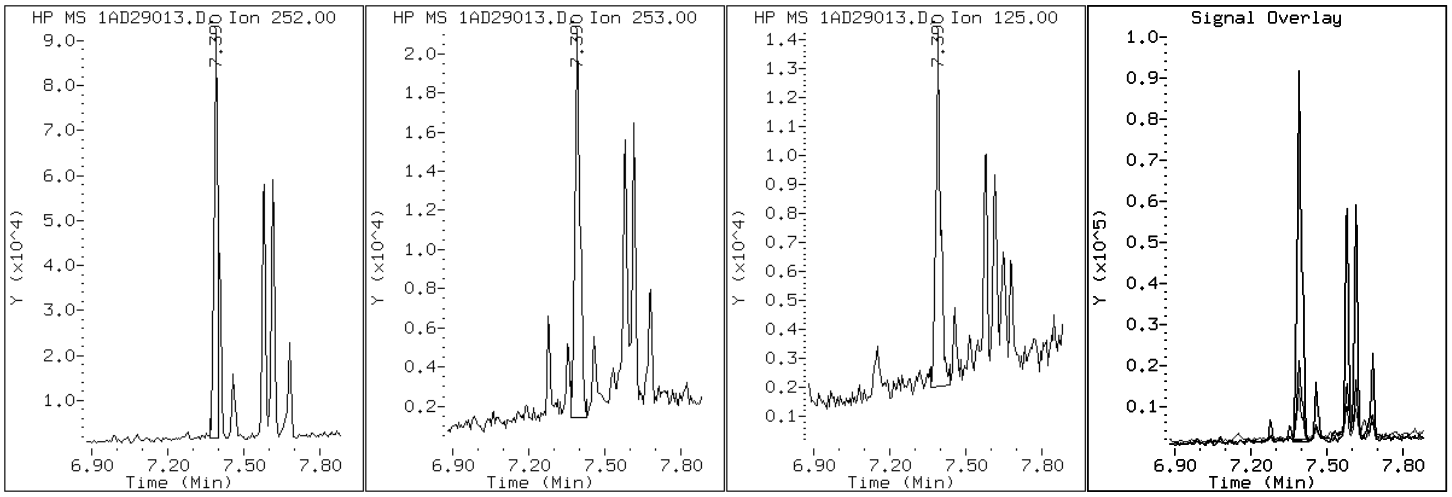
Data File: 1AD29013.D

Date: 29-APR-2013 15:09

Client ID: CV1202B-CS | Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a | Operator: SCC

20 Benzo(b)fluoranthene



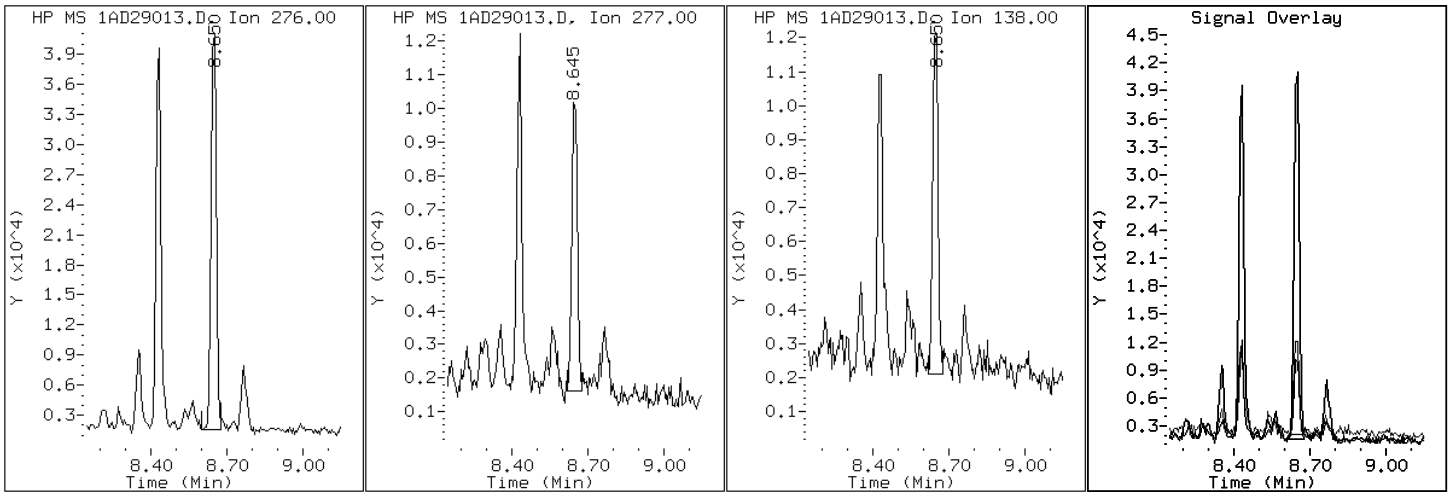
Data File: 1AD29013.D

Date: 29-APR-2013 15:09

Client ID: CV1202B-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a Operator: SCC

26 Benzo(g,h,i)perylene



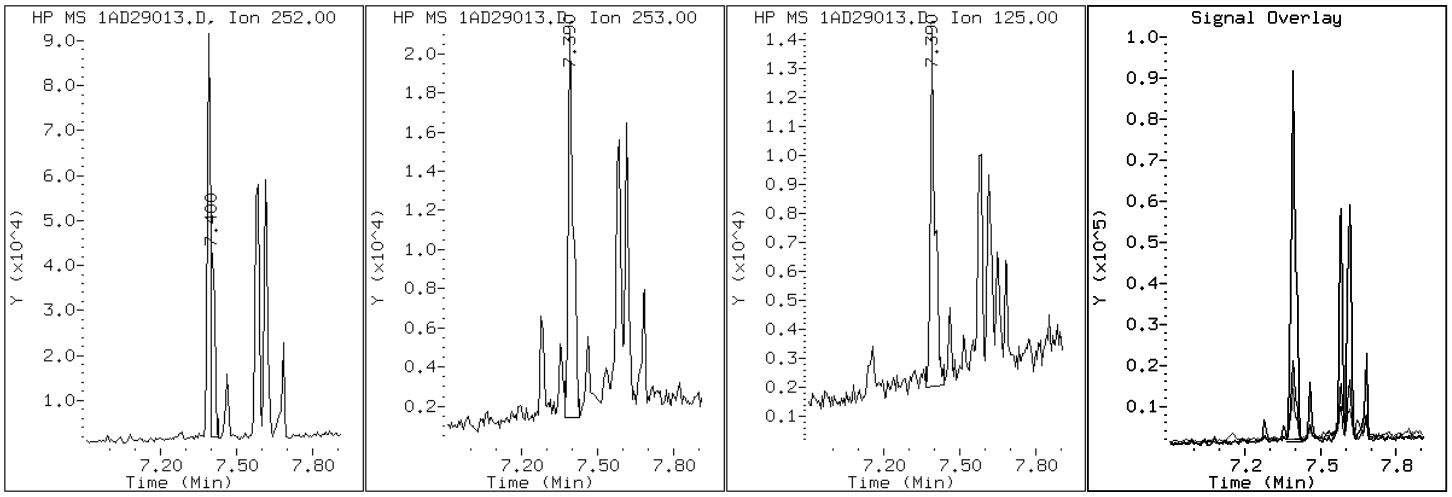
Data File: 1AD29013.D

Date: 29-APR-2013 15:09

Client ID: CV1202B-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD29013.D

Date: 29-APR-2013 15:09

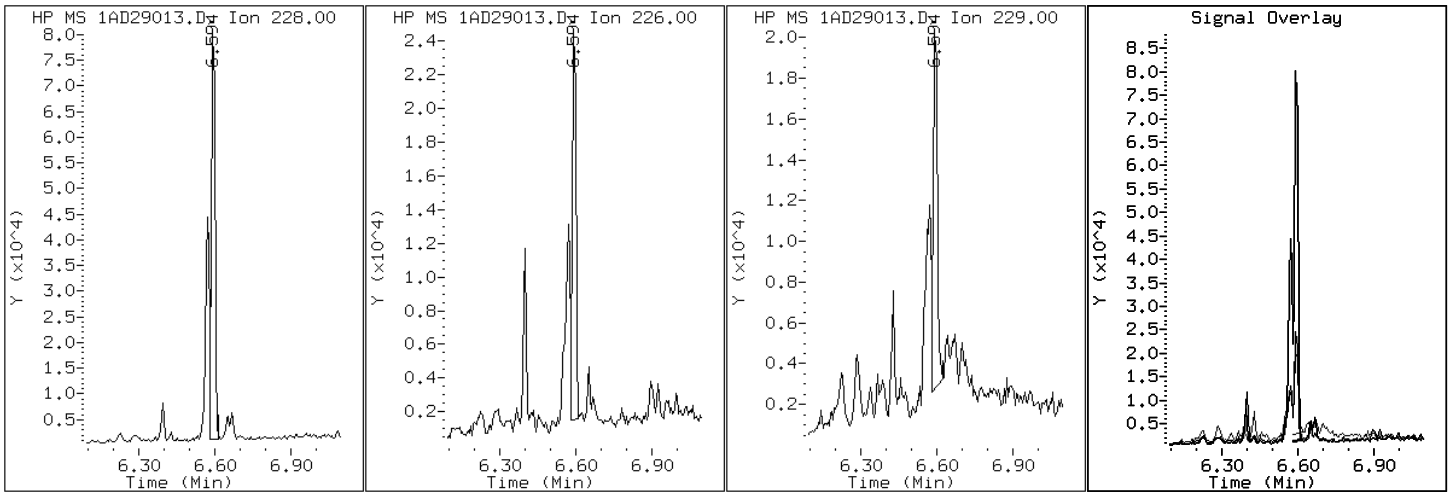
Client ID: CV1202B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a

Operator: SCC

19 Chrysene



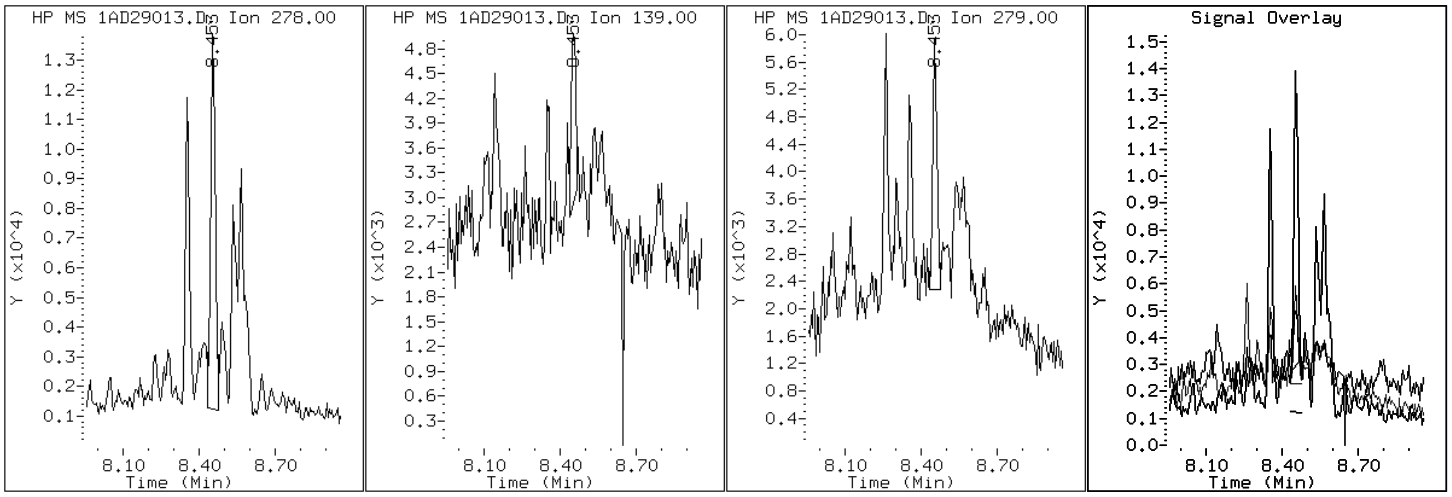
Data File: 1AD29013.D

Date: 29-APR-2013 15:09

Client ID: CV1202B-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD29013.D

Date: 29-APR-2013 15:09

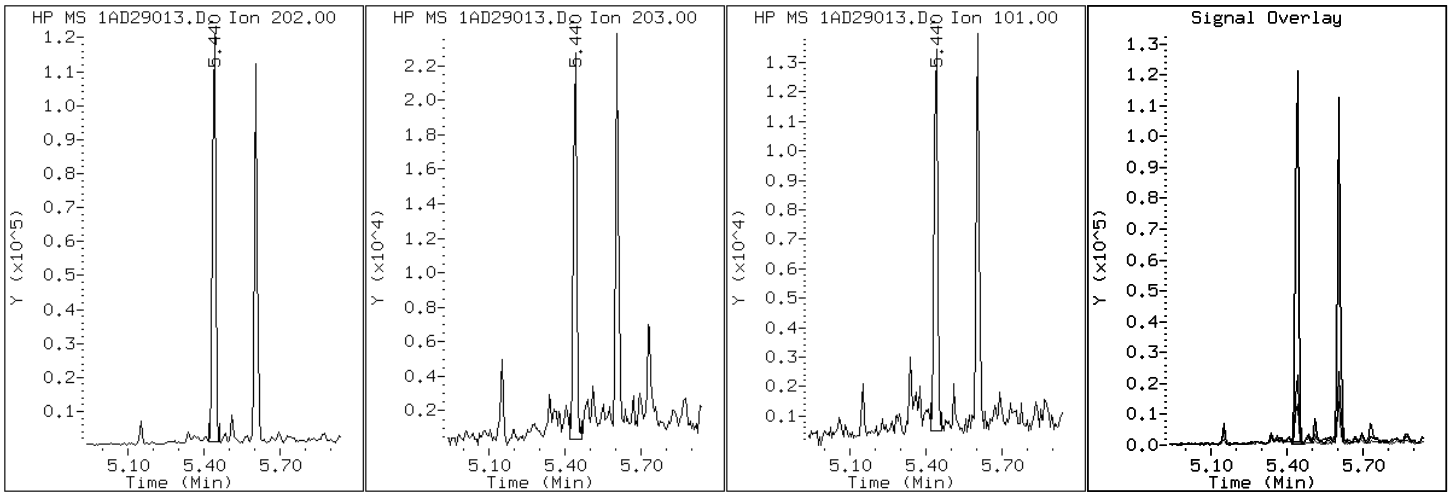
Client ID: CV1202B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a

Operator: SCC

15 Fluoranthene



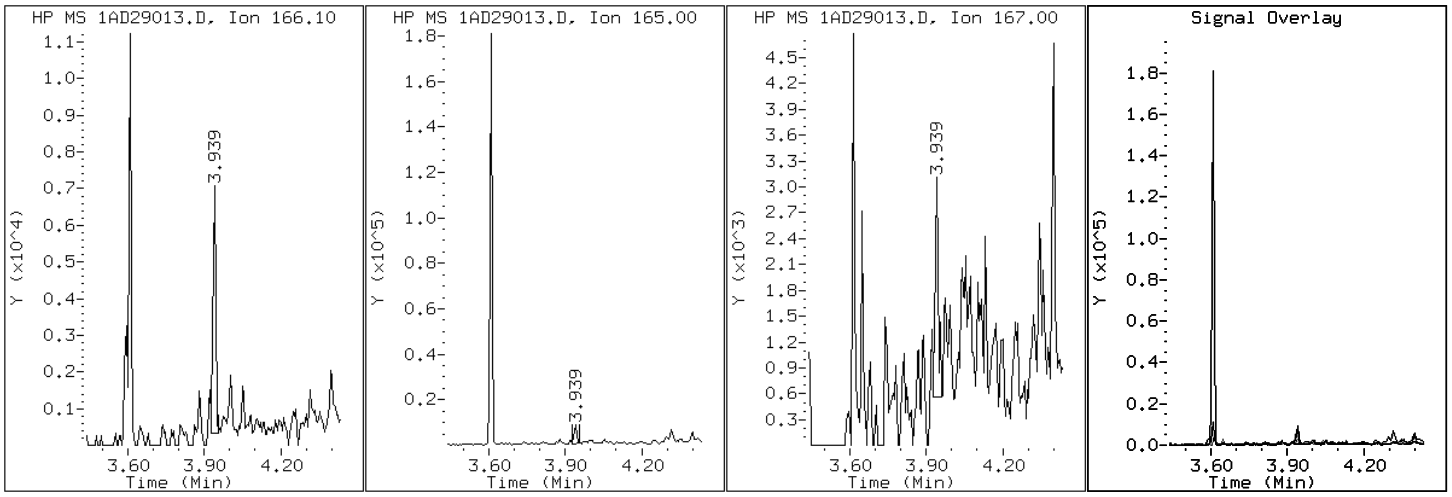
Data File: 1AD29013.D

Date: 29-APR-2013 15:09

Client ID: CV1202B-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a Operator: SCC

9 Fluorene



Data File: 1AD29013.D

Date: 29-APR-2013 15:09

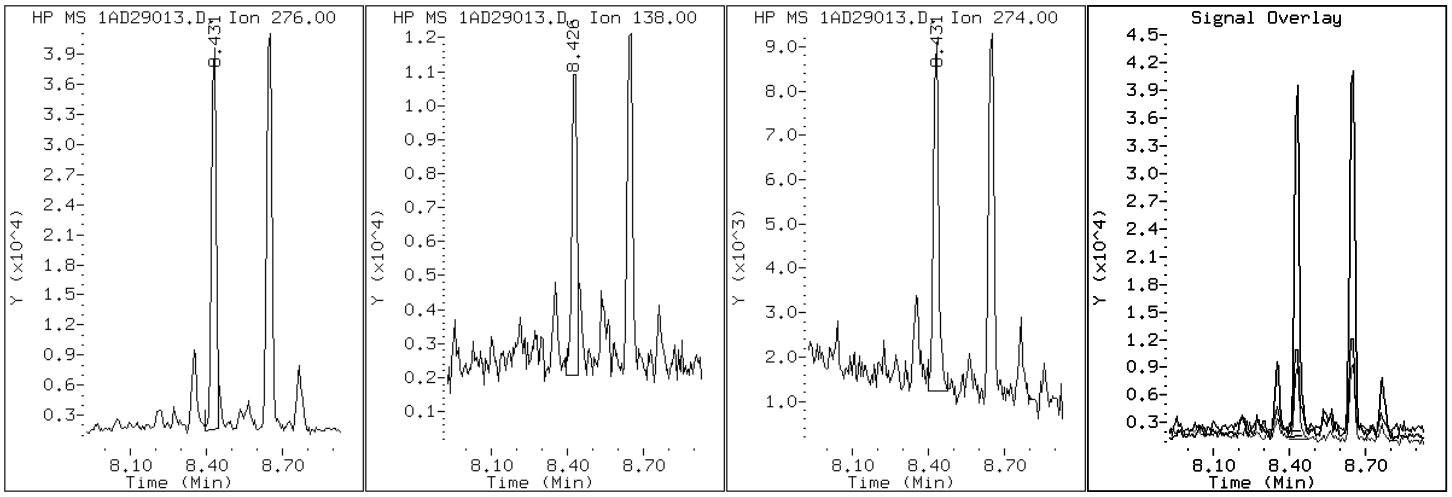
Client ID: CV1202B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a

Operator: SCC

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



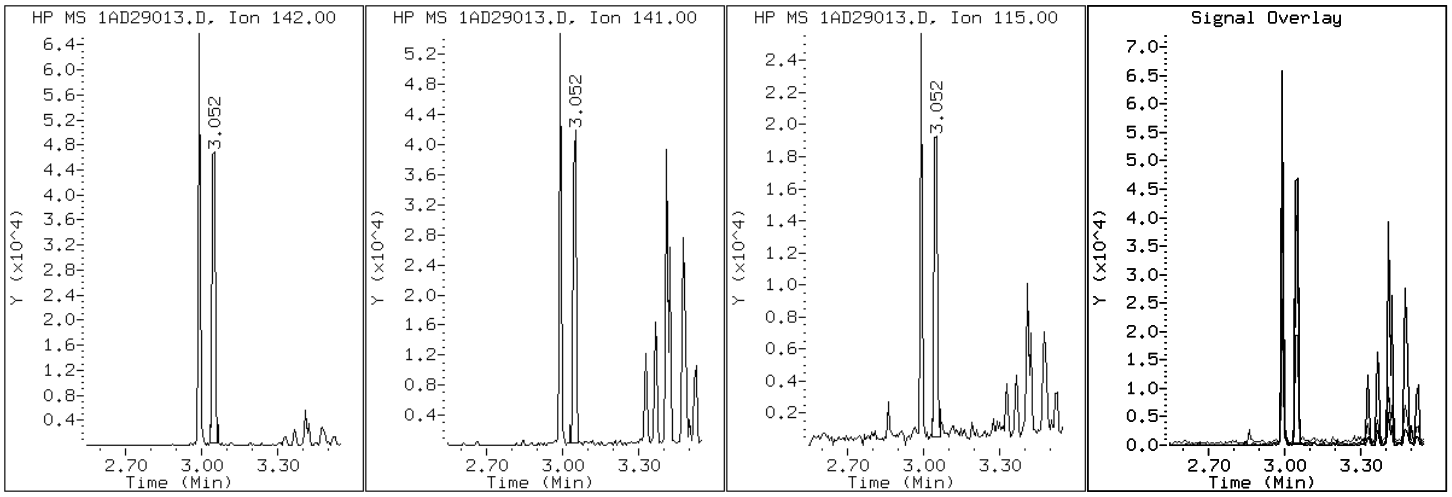
Data File: 1AD29013.D

Date: 29-APR-2013 15:09

Client ID: CV1202B-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a Operator: SCC

4 1-Methylnaphthalene



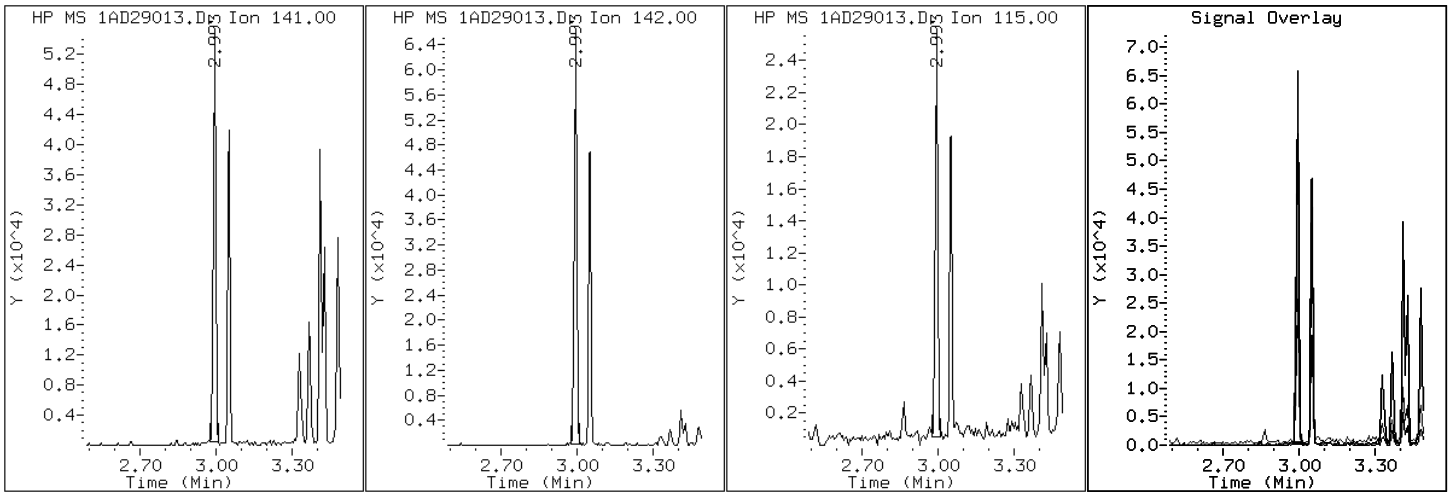
Data File: 1AD29013.D

Date: 29-APR-2013 15:09

Client ID: CV1202B-CS Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD29013.D

Date: 29-APR-2013 15:09

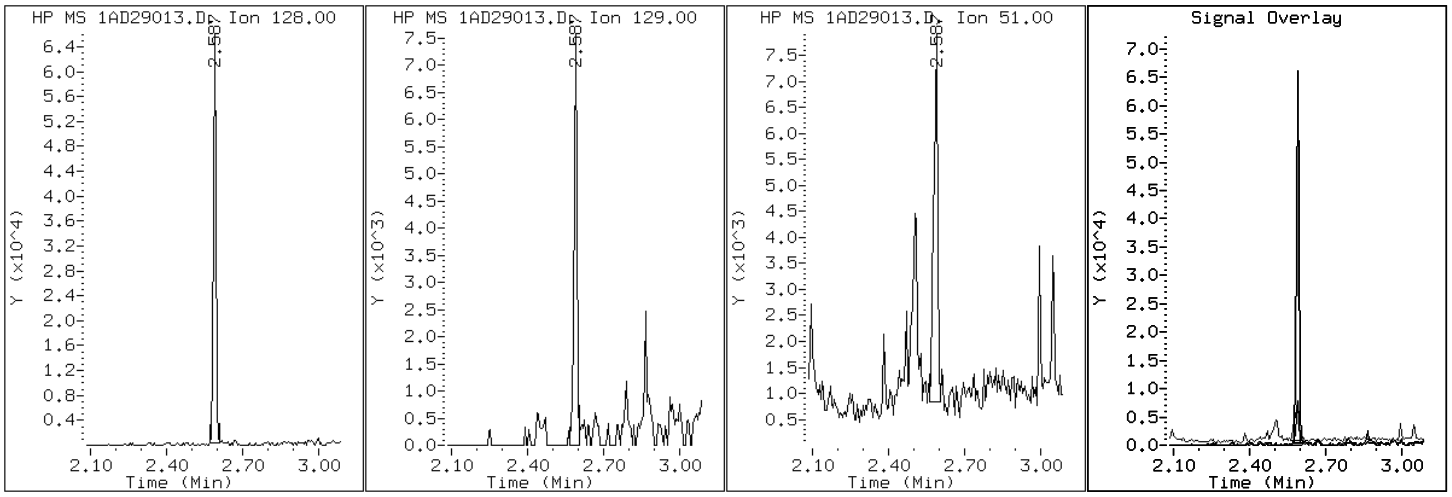
Client ID: CV1202B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a

Operator: SCC

2 Naphthalene



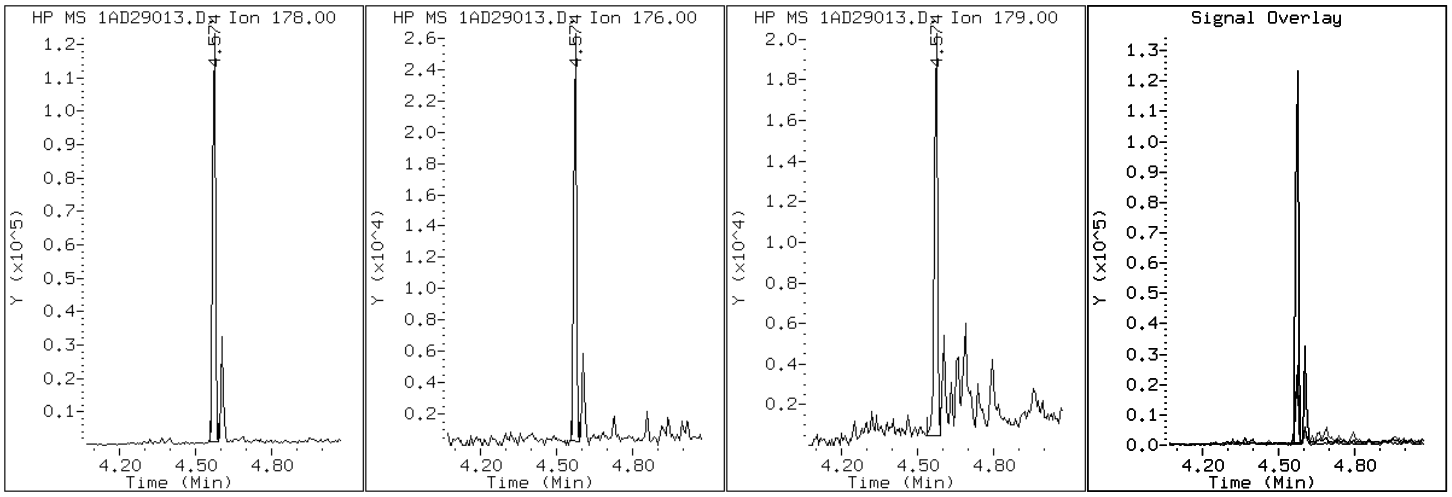
Data File: 1AD29013.D

Date: 29-APR-2013 15:09

Client ID: CV1202B-CS | Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a | Operator: SCC

11 Phenanthrene



Data File: 1AD29013.D

Date: 29-APR-2013 15:09

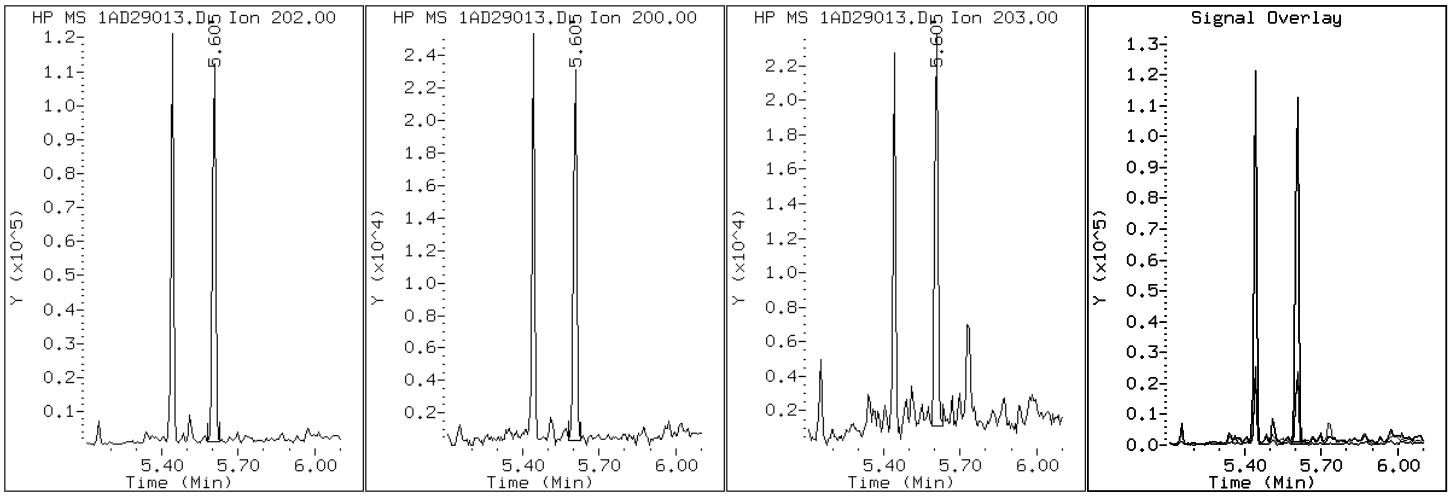
Client ID: CV1202B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-10-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD29013.D
Inj. Date and Time: 29-APR-2013 15:09
Instrument ID: BSMA5973.i
Client ID: CV1202B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

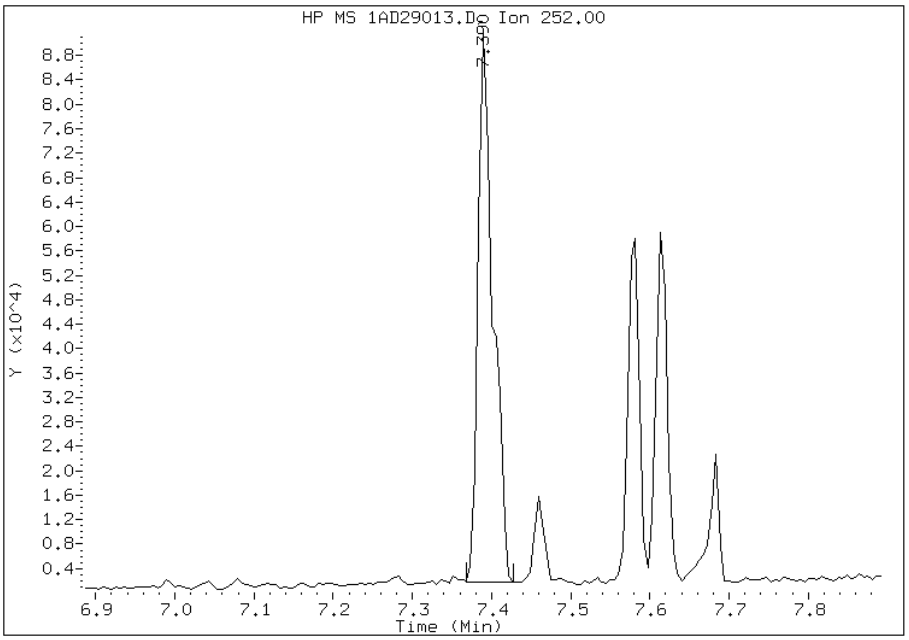
Processing Integration Results

RT: 7.39

Response: 116789

Amount: 2

Conc: 791



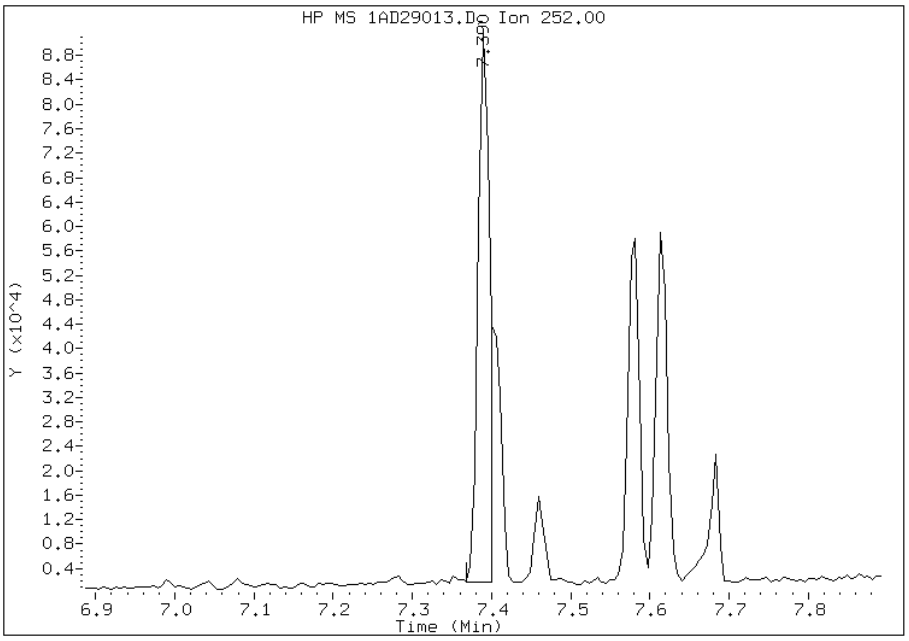
Manual Integration Results

RT: 7.39

Response: 90657

Amount: 2

Conc: 614



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:45
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29013.D
Inj. Date and Time: 29-APR-2013 15:09
Instrument ID: BSMA5973.i
Client ID: CV1202B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

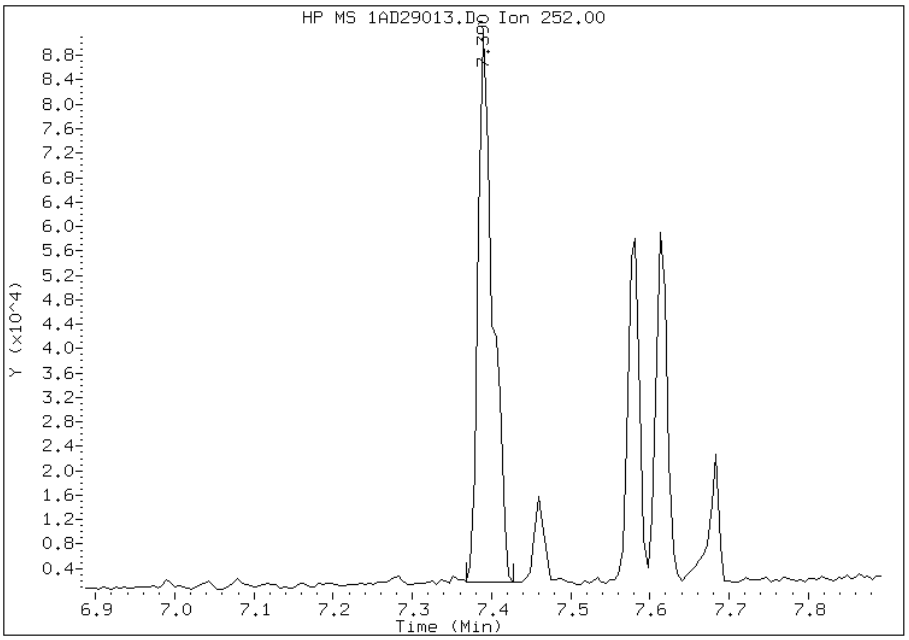
Processing Integration Results

RT: 7.39

Response: 116789

Amount: 2

Conc: 688



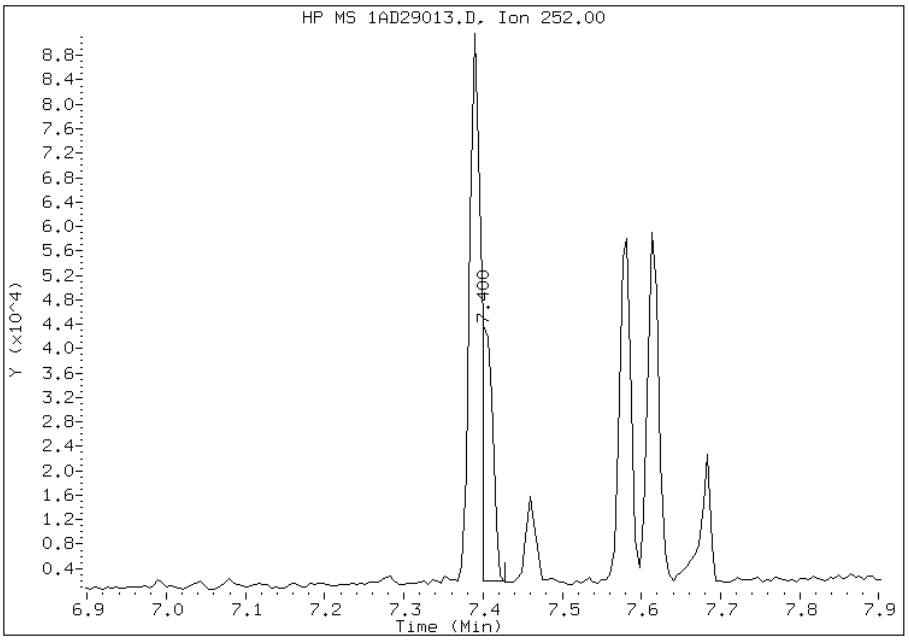
Manual Integration Results

RT: 7.40

Response: 39169

Amount: 1

Conc: 231



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29013.D
Inj. Date and Time: 29-APR-2013 15:09
Instrument ID: BSMA5973.i
Client ID: CV1202B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

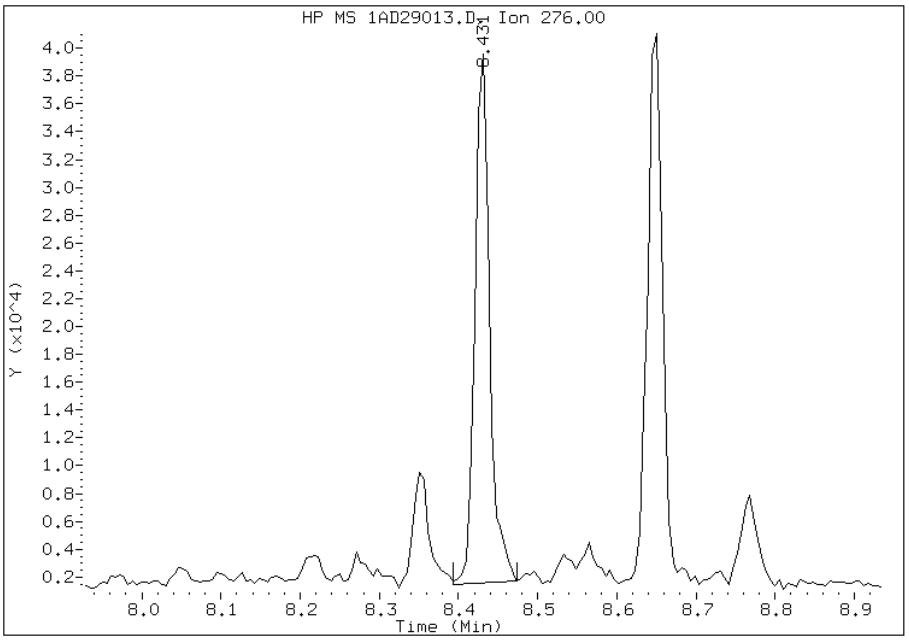
Processing Integration Results

RT: 8.43

Response: 48079

Amount: 1

Conc: 347



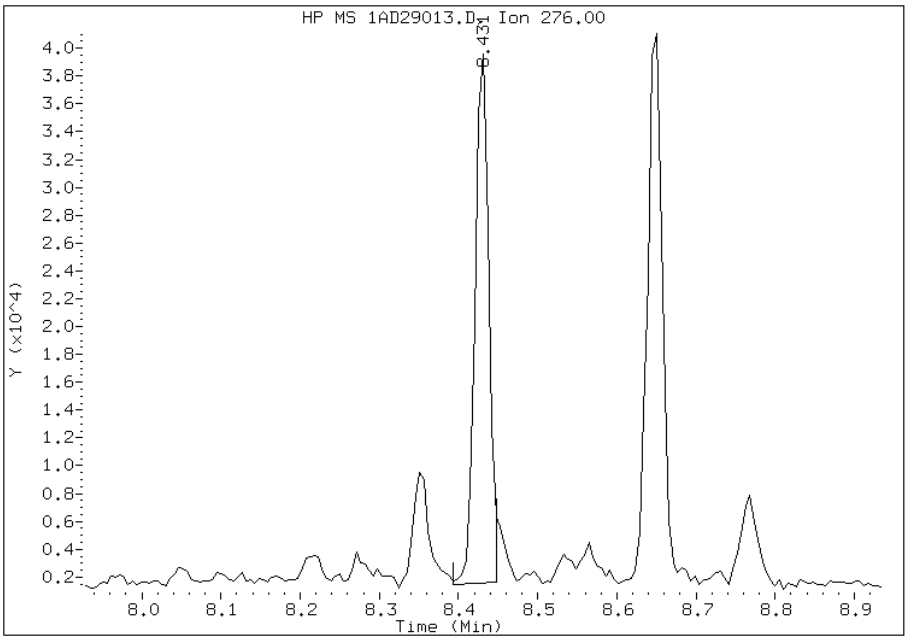
Manual Integration Results

RT: 8.43

Response: 45379

Amount: 1

Conc: 327



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV1202B-CSD | Lab Sample ID: 680-89695-11

Matrix: Solid | Lab File ID: 1AD29014.D

Analysis Method: 8270C LL | Date Collected: 04/23/2013 10:20

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 15.08(g) | Date Analyzed: 04/29/2013 15:24

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

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

% Moisture: 22.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136961 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	60	J	210	26
120-12-7	Anthracene	94		43	22
56-55-3	Benzo[a]anthracene	260		41	20
50-32-8	Benzo[a]pyrene	250		54	27
205-99-2	Benzo[b]fluoranthene	430		63	31
191-24-2	Benzo[g,h,i]perylene	220		100	23
207-08-9	Benzo[k]fluoranthene	140		41	19
218-01-9	Chrysene	370		46	23
53-70-3	Dibenz(a,h)anthracene	60	J	100	21
206-44-0	Fluoranthene	450		100	21
86-73-7	Fluorene	33	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	210		100	37
90-12-0	1-Methylnaphthalene	270		210	23
91-57-6	2-Methylnaphthalene	310		210	37
91-20-3	Naphthalene	240		210	23
85-01-8	Phenanthrene	420		41	20
129-00-0	Pyrene	360		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29014.D
Lab Smp Id: 680-89695-A-11-A Client Smp ID: CV1202B-CSD
Inj Date : 29-APR-2013 15:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89695-a-11-a
Misc Info : 680-89695-A-11-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 14
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	22.764	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.576	2.572	(1.000)	1737756	40.0000	
* 6 Acenaphthene-d10	164	3.607	3.603	(1.000)	881589	40.0000	
* 10 Phenanthrene-d10	188	4.563	4.554	(1.000)	1425975	40.0000	
$ 14 o-Terphenyl	230	4.857	4.859	(1.064)	32181	1.37975	473.8484
* 18 Chrysene-d12	240	6.583	6.574	(1.000)	1456895	40.0000	
* 23 Perylene-d12	264	7.673	7.663	(1.000)	1864110	40.0000	
2 Naphthalene	128	2.587	2.583	(1.004)	30351	0.69868	239.9495
3 2-Methylnaphthalene	141	2.993	2.989	(1.162)	22772	0.91434	314.0143
4 1-Methylnaphthalene	142	3.052	3.048	(1.185)	22071	0.79988	274.7026
5 Acenaphthylene	152	3.516	3.513	(0.975)	8941	0.17354	59.5976
9 Fluorene	166	3.938	3.935	(1.092)	3107	0.09558	32.8236(Q)
11 Phenanthrene	178	4.574	4.570	(1.002)	50467	1.22174	419.5823
12 Anthracene	178	4.606	4.608	(1.009)	11767	0.27396	94.0875
13 Carbazole	167	4.740	4.736	(1.039)	6298	0.15200	52.2010

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.439	5.436	(1.192)	62918	1.31872	452.8915
16 Pyrene	202	5.605	5.601	(0.851)	57792	1.03977	357.0894
17 Benzo(a)anthracene	228	6.572	6.563	(0.998)	36577	0.76878	264.0236
19 Chrysene	228	6.593	6.595	(1.002)	52170	1.08082	371.1888
20 Benzo(b)fluoranthene	252	7.389	7.380	(0.963)	70524	1.24616	427.9690(M)
21 Benzo(k)fluoranthene	252	7.400	7.407	(0.964)	27329	0.42001	144.2436(QM)
22 Benzo(a)pyrene	252	7.614	7.610	(0.992)	40641	0.72187	247.9114
24 Indeno(1,2,3-cd)pyrene	276	8.426	8.427	(1.098)	33218	0.62488	214.6042(M)
25 Dibenzo(a,h)anthracene	278	8.452	8.454	(1.102)	8676	0.17541	60.2408(Q)
26 Benzo(g,h,i)perylene	276	8.645	8.646	(1.127)	38961	0.65486	224.9006

QC Flag Legend

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

Data File: 1AD29014.D

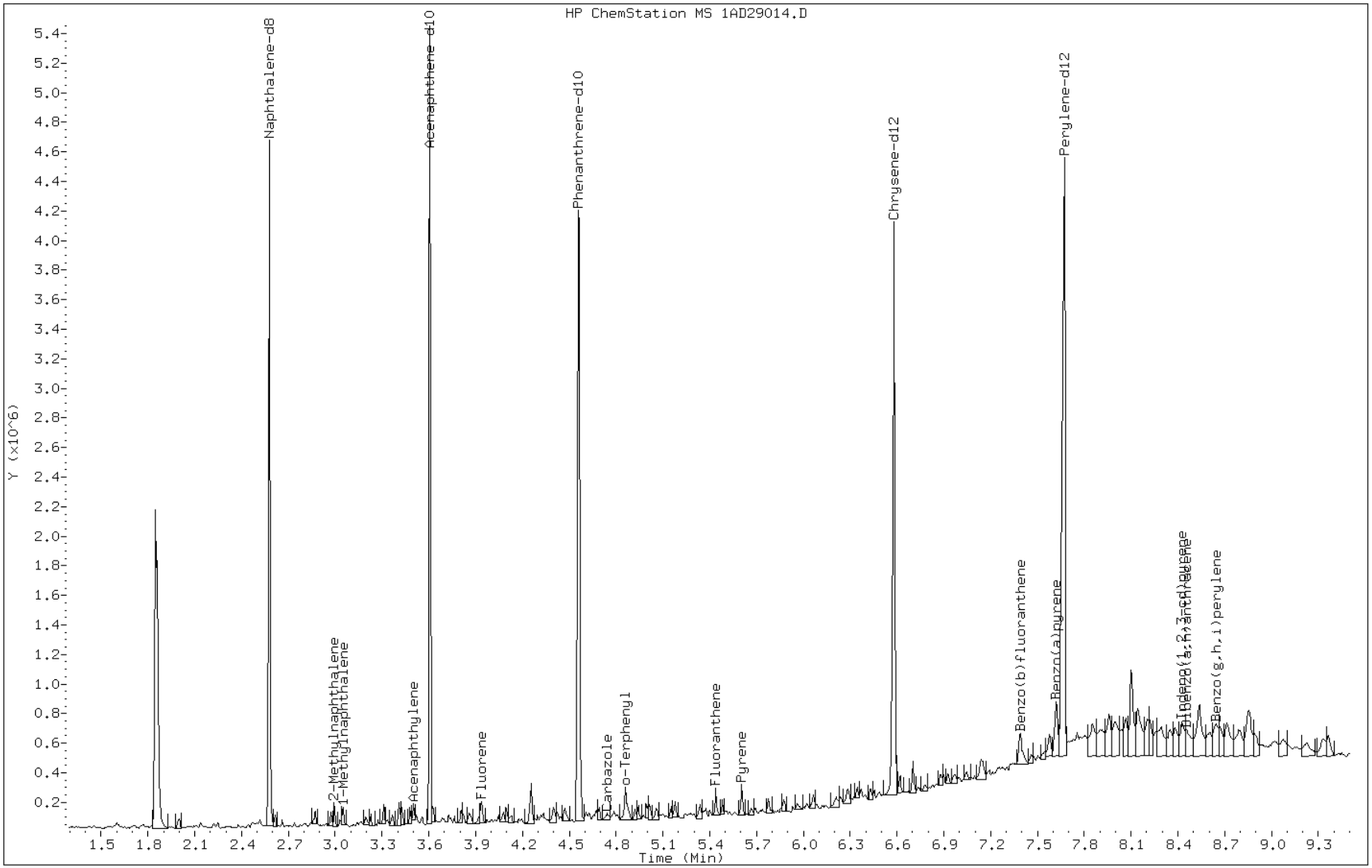
Date: 29-APR-2013 15:24

Client ID: CV1202B-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a

Operator: SCC



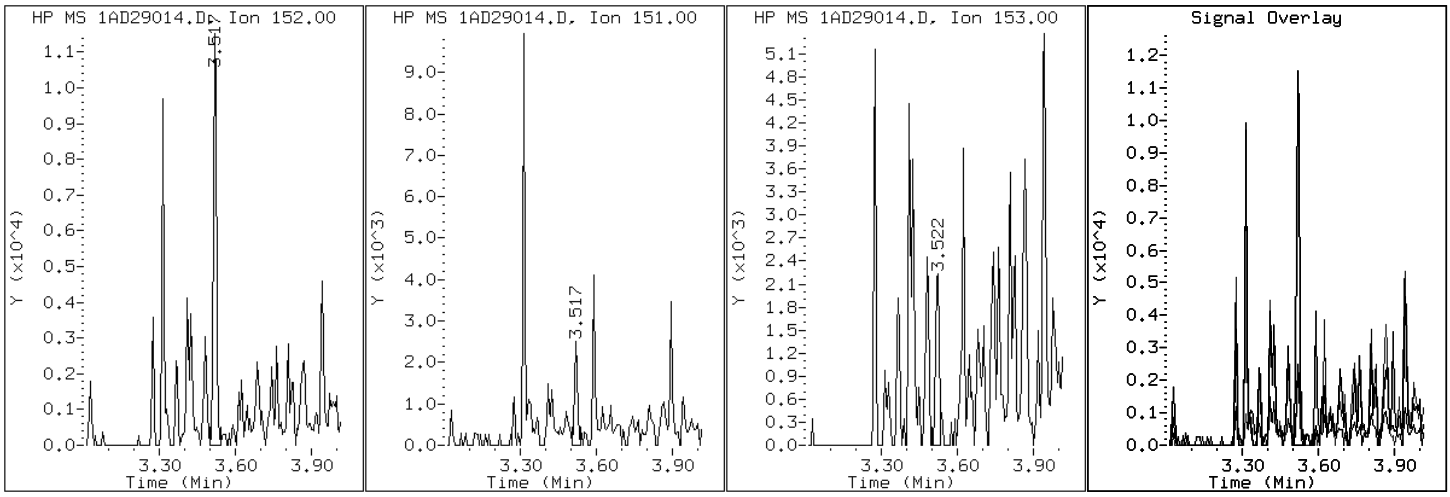
Data File: 1AD29014.D

Date: 29-APR-2013 15:24

Client ID: CV1202B-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a Operator: SCC

5 Acenaphthylene



Data File: 1AD29014.D

Date: 29-APR-2013 15:24

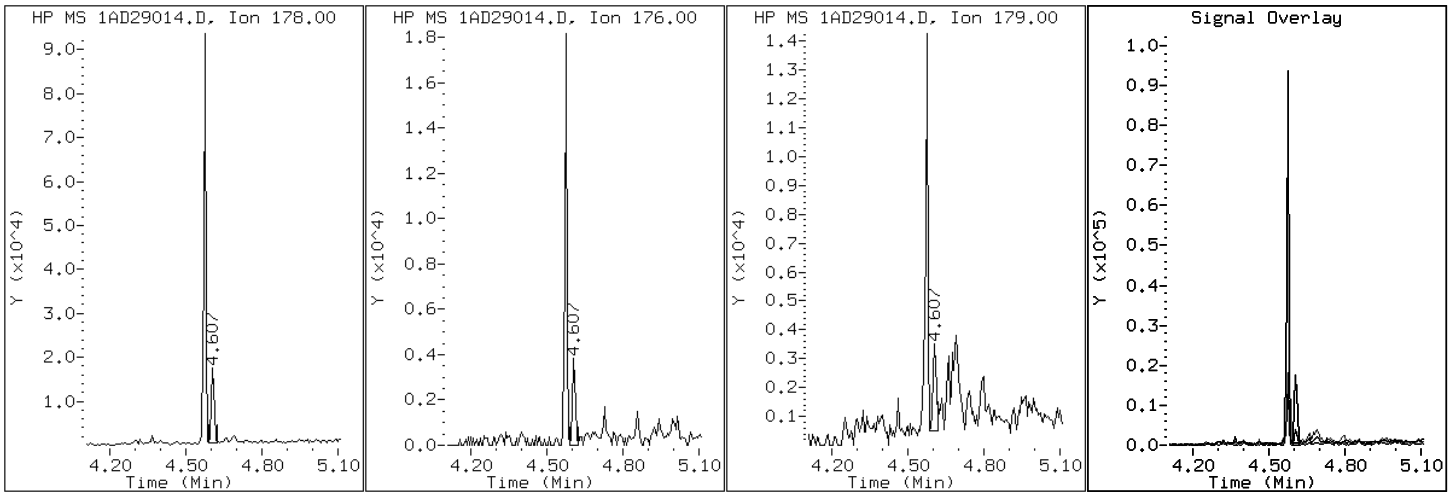
Client ID: CV1202B-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a

Operator: SCC

12 Anthracene



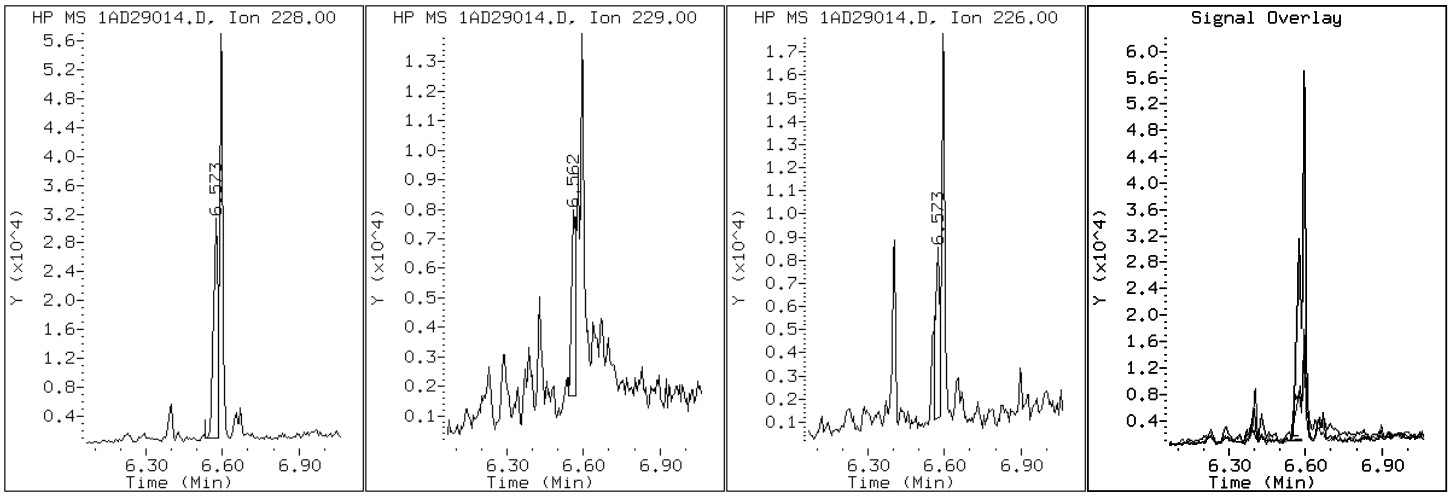
Data File: 1AD29014.D

Date: 29-APR-2013 15:24

Client ID: CV1202B-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a Operator: SCC

17 Benzo(a)anthracene



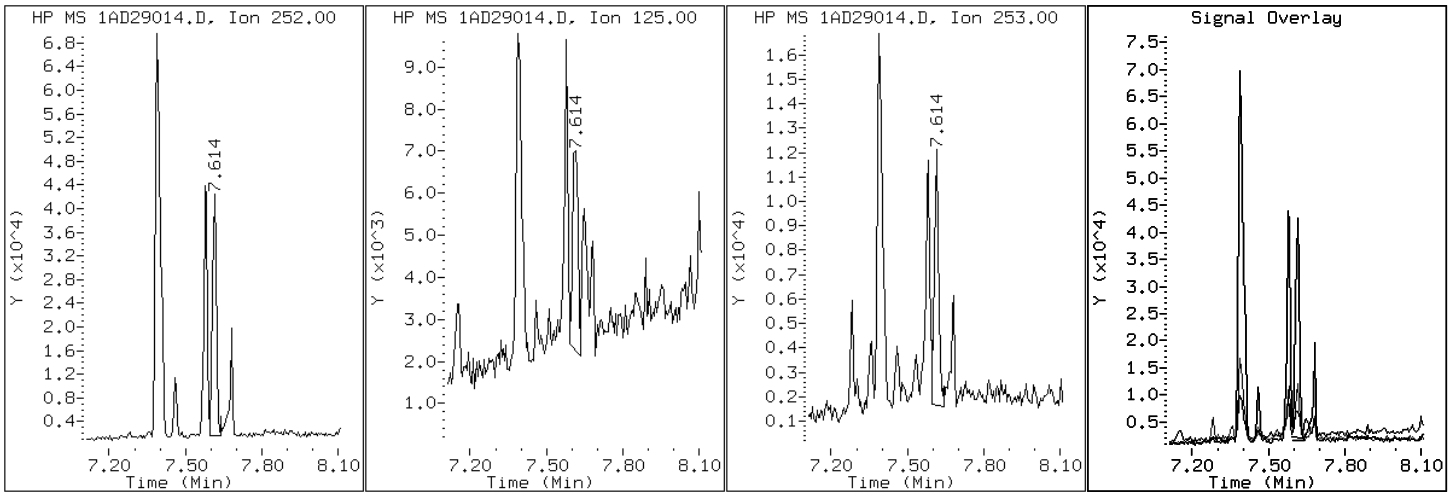
Data File: 1AD29014.D

Date: 29-APR-2013 15:24

Client ID: CV1202B-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD29014.D

Date: 29-APR-2013 15:24

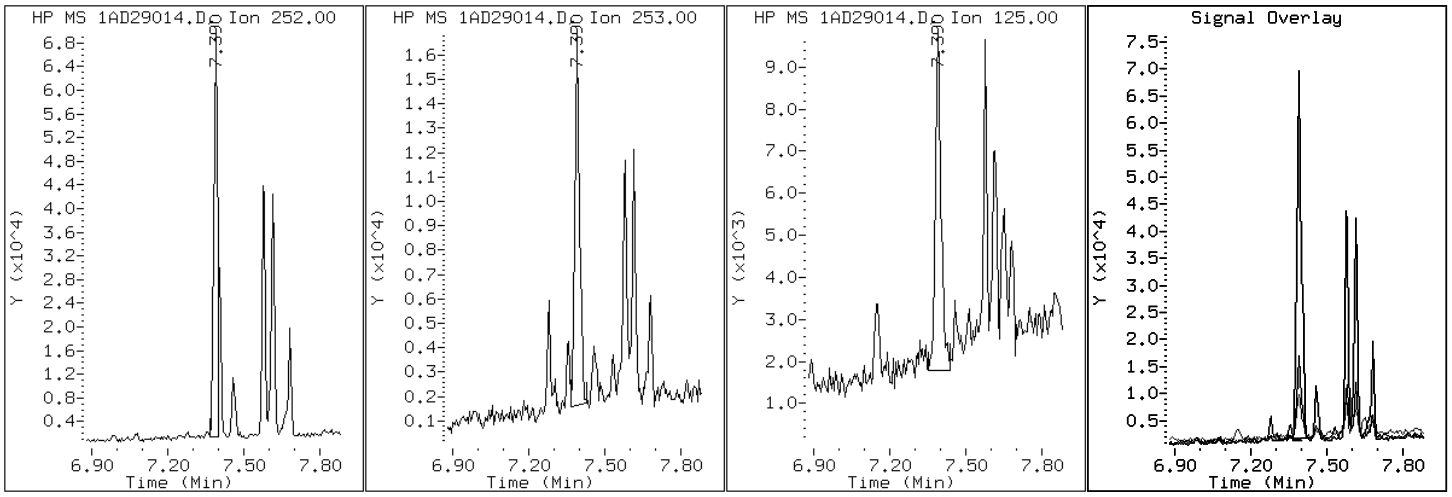
Client ID: CV1202B-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a

Operator: SCC

20 Benzo(b)fluoranthene



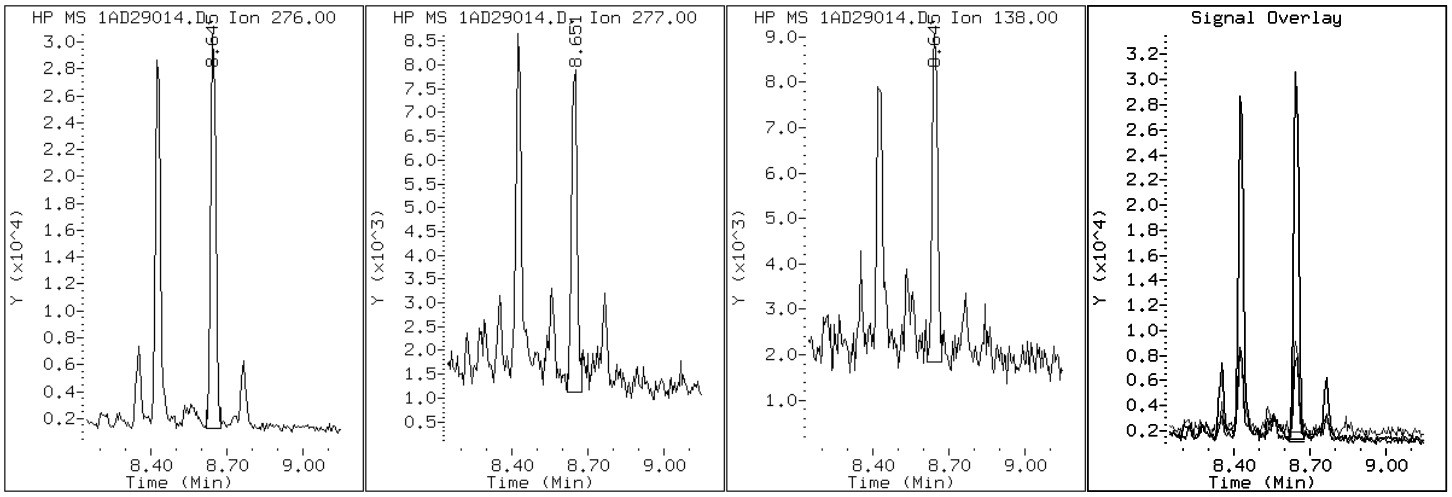
Data File: 1AD29014.D

Date: 29-APR-2013 15:24

Client ID: CV1202B-CSD | Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a | Operator: SCC

26 Benzo(g,h,i)perylene



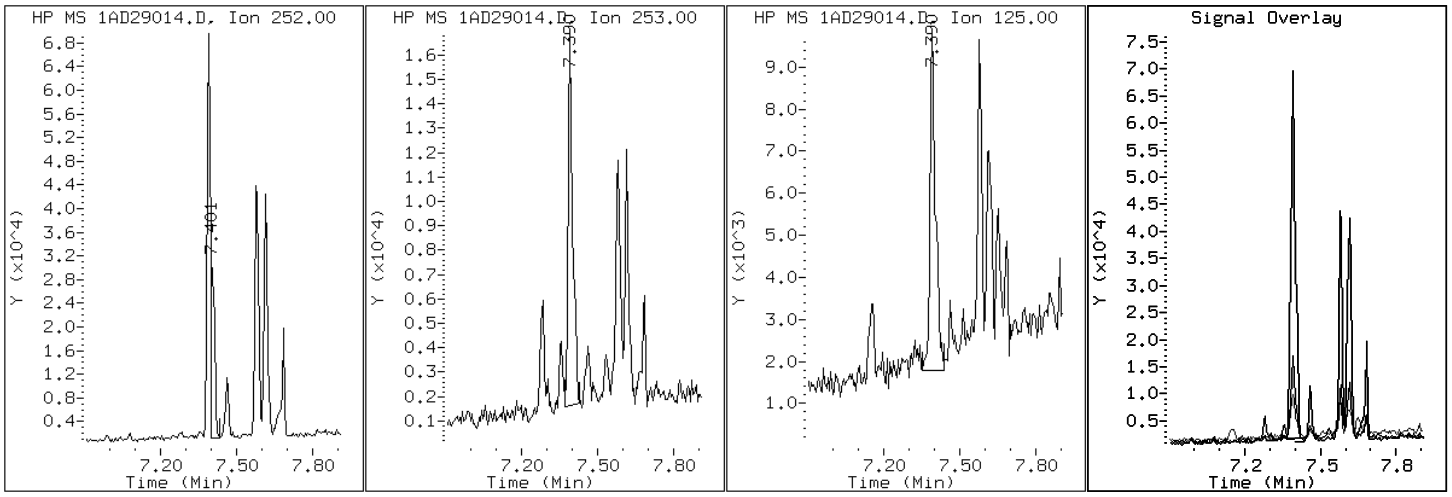
Data File: 1AD29014.D

Date: 29-APR-2013 15:24

Client ID: CV1202B-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a Operator: SCC

21 Benzo(k)fluoranthene



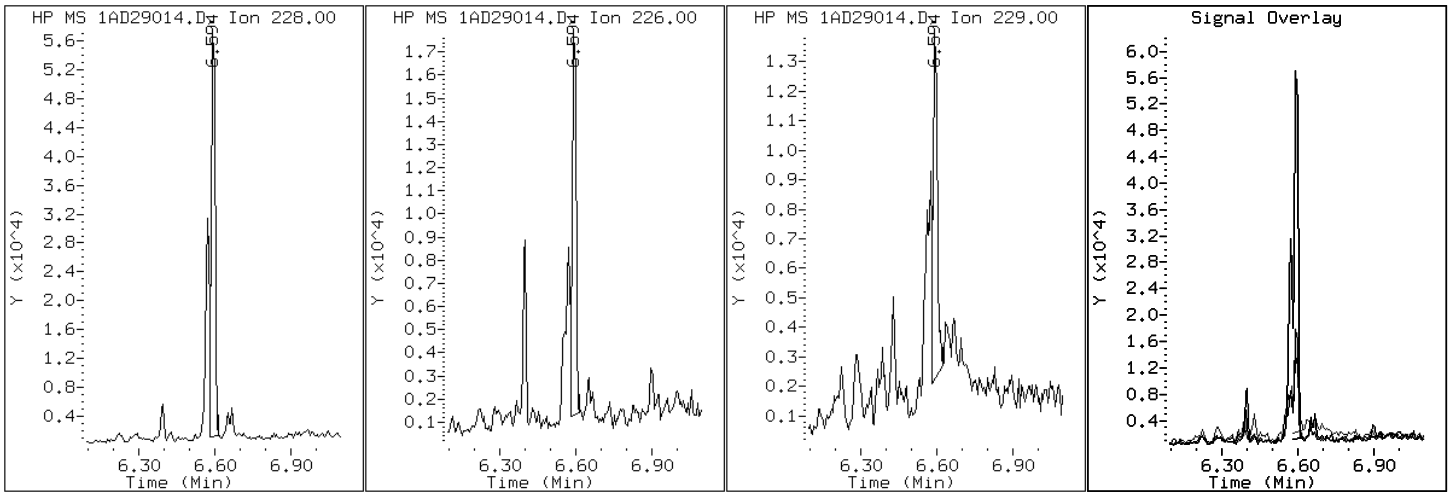
Data File: 1AD29014.D

Date: 29-APR-2013 15:24

Client ID: CV1202B-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a Operator: SCC

19 Chrysene



Data File: 1AD29014.D

Date: 29-APR-2013 15:24

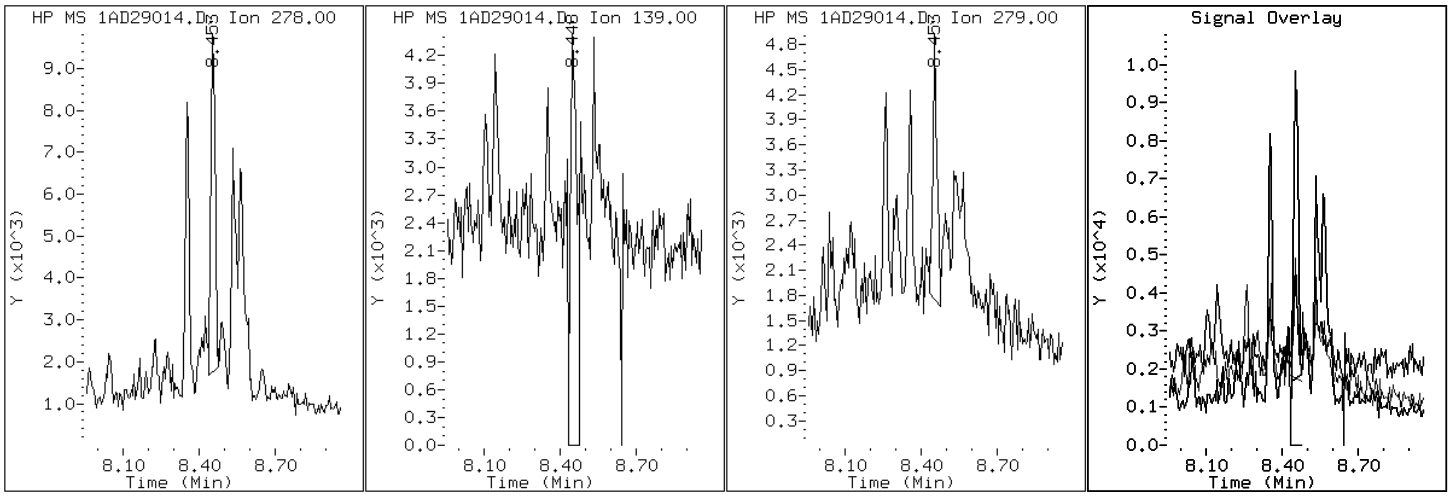
Client ID: CV1202B-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD29014.D

Date: 29-APR-2013 15:24

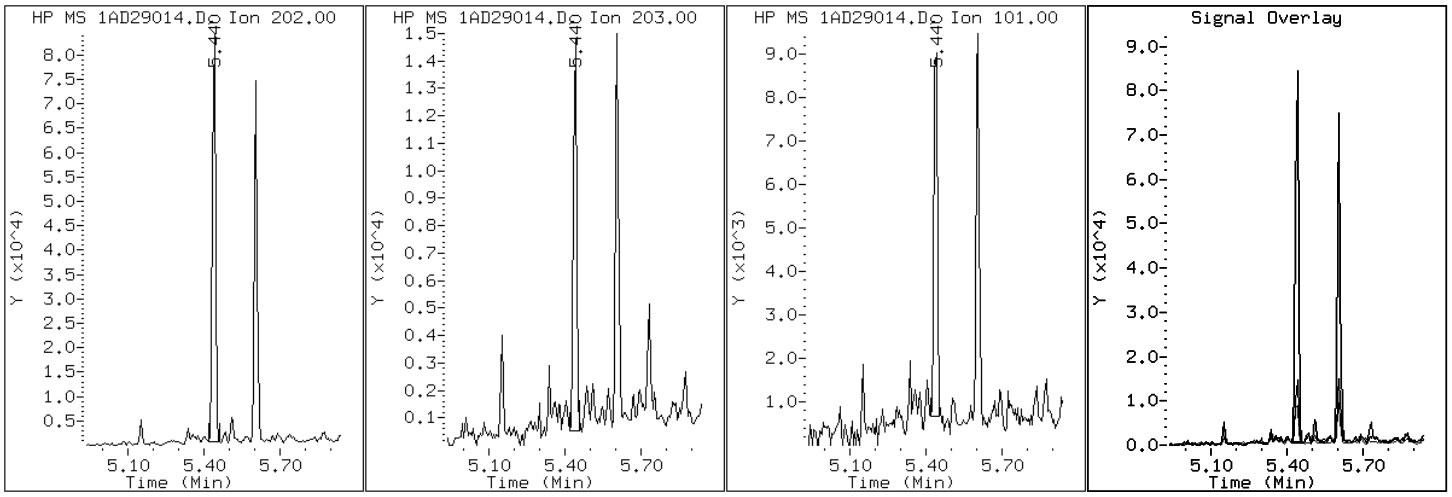
Client ID: CV1202B-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a

Operator: SCC

15 Fluoranthene



Data File: 1AD29014.D

Date: 29-APR-2013 15:24

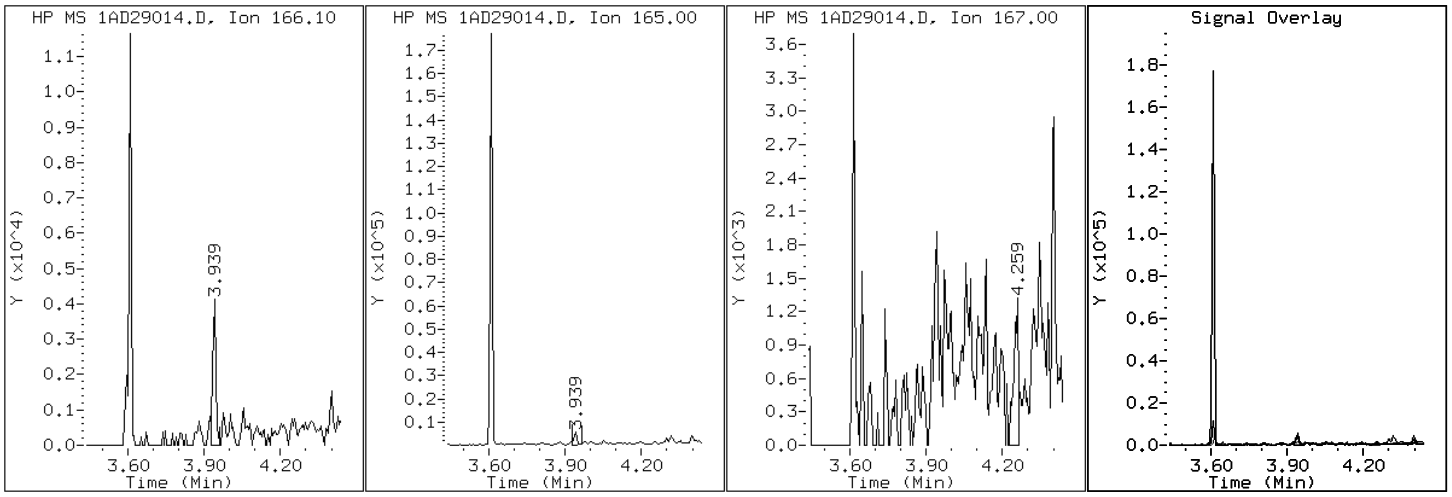
Client ID: CV1202B-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a

Operator: SCC

9 Fluorene



Data File: 1AD29014.D

Date: 29-APR-2013 15:24

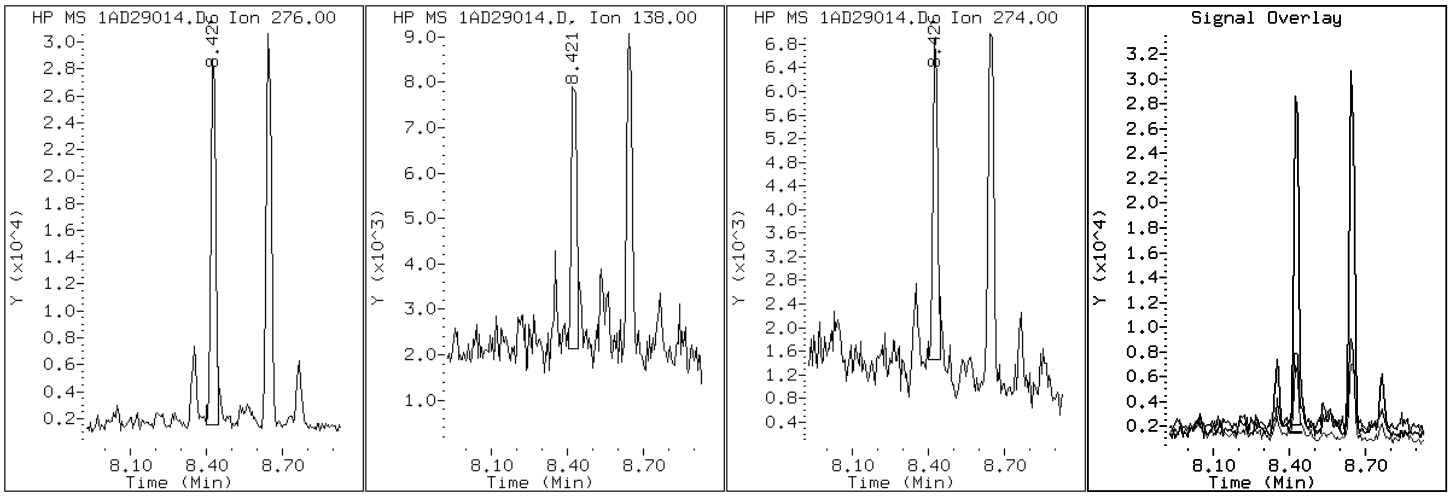
Client ID: CV1202B-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a

Operator: SCC

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



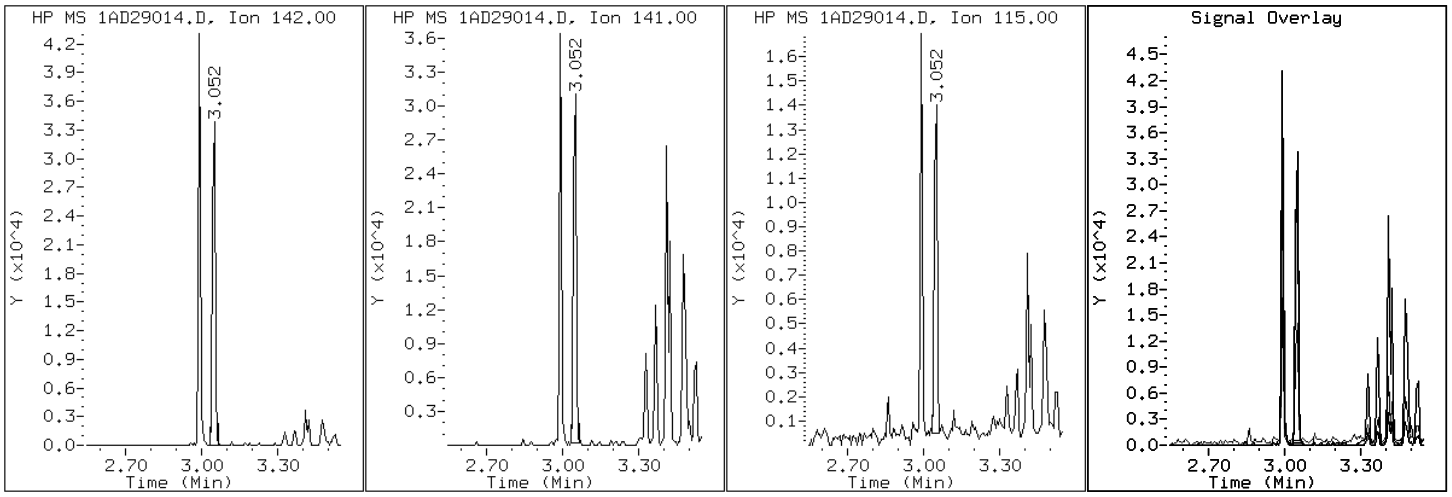
Data File: 1AD29014.D

Date: 29-APR-2013 15:24

Client ID: CV1202B-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a Operator: SCC

4 1-Methylnaphthalene



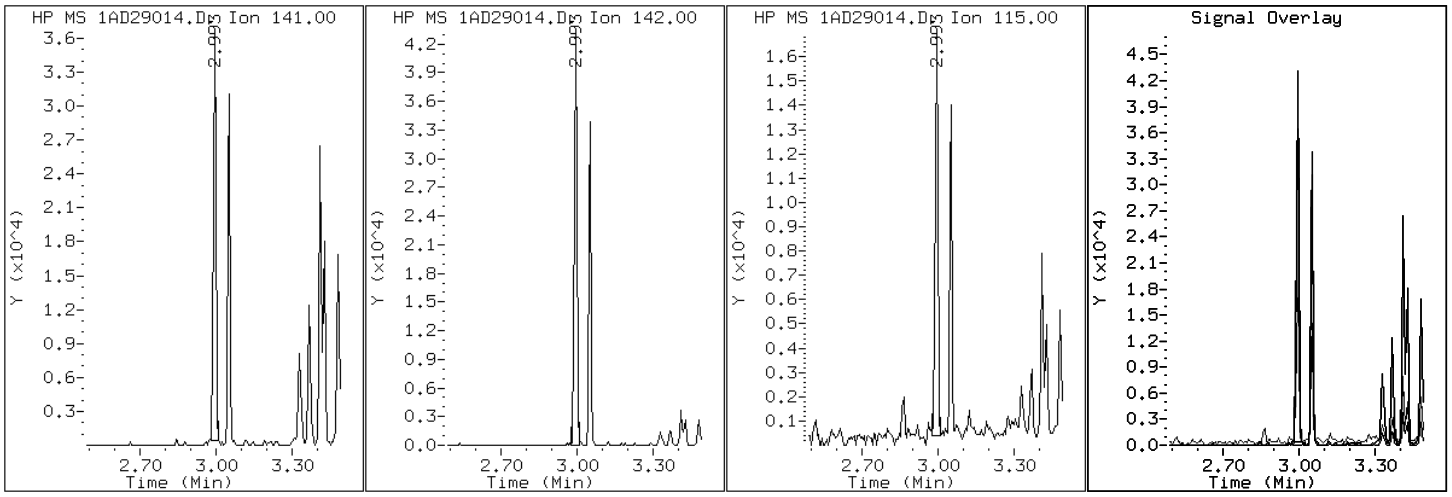
Data File: 1AD29014.D

Date: 29-APR-2013 15:24

Client ID: CV1202B-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a Operator: SCC

3 2-Methylnaphthalene



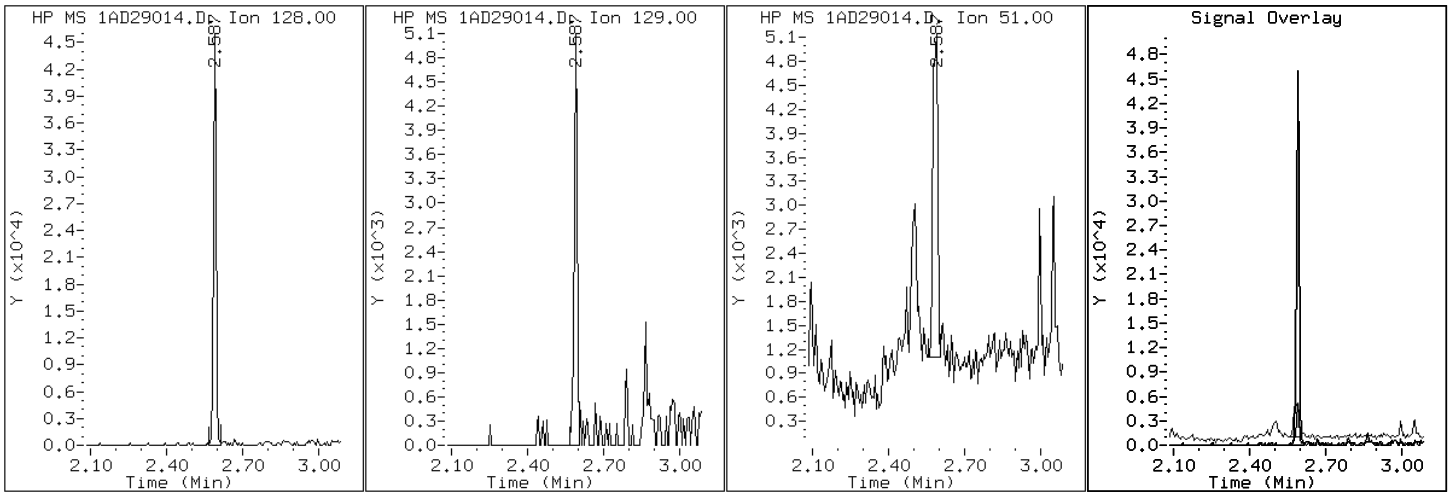
Data File: 1AD29014.D

Date: 29-APR-2013 15:24

Client ID: CV1202B-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a Operator: SCC

2 Naphthalene



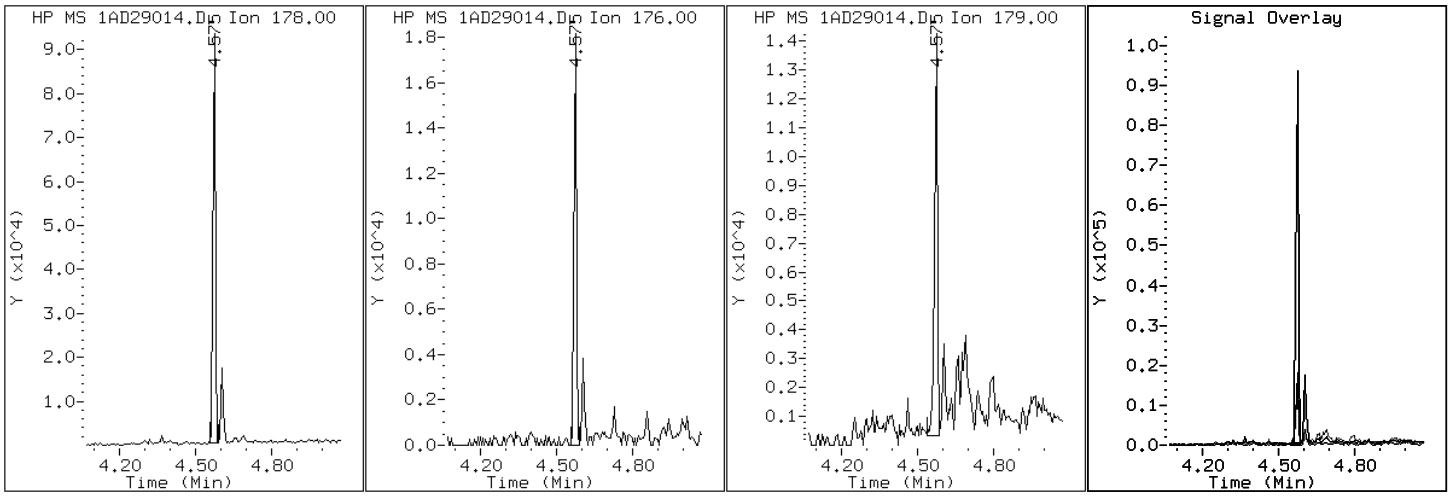
Data File: 1AD29014.D

Date: 29-APR-2013 15:24

Client ID: CV1202B-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a Operator: SCC

11 Phenanthrene



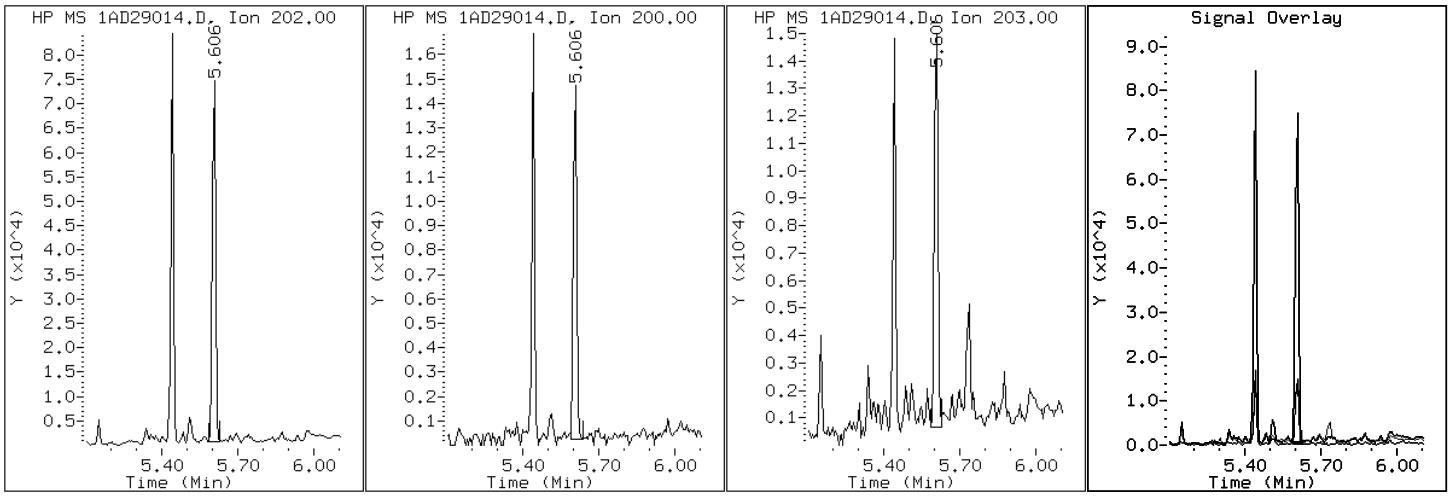
Data File: 1AD29014.D

Date: 29-APR-2013 15:24

Client ID: CV1202B-CSD Instrument: BSMA5973.i

Sample Info: 680-89695-a-11-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD29014.D
Inj. Date and Time: 29-APR-2013 15:24
Instrument ID: BSMA5973.i
Client ID: CV1202B-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

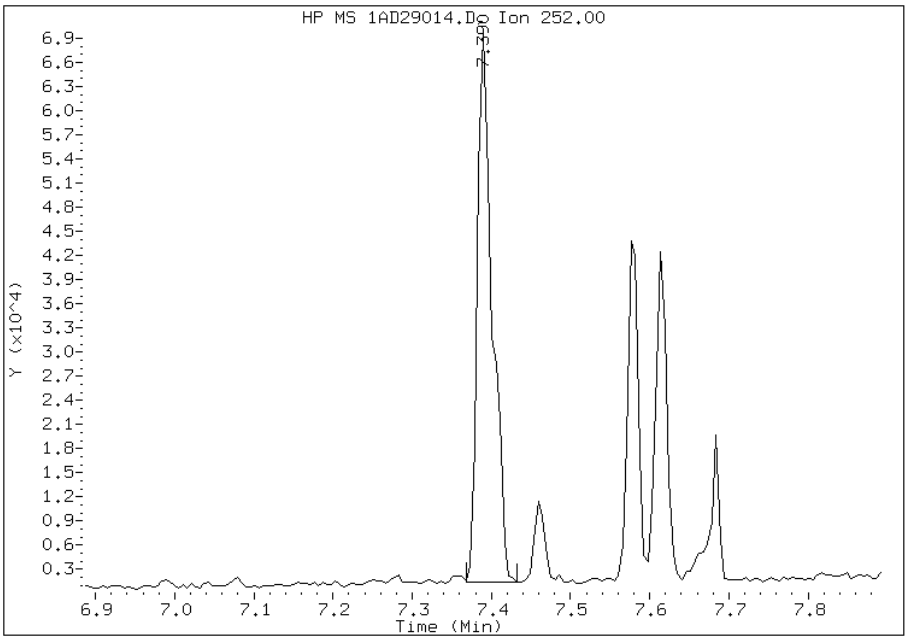
Processing Integration Results

RT: 7.39

Response: 87756

Amount: 2

Conc: 533



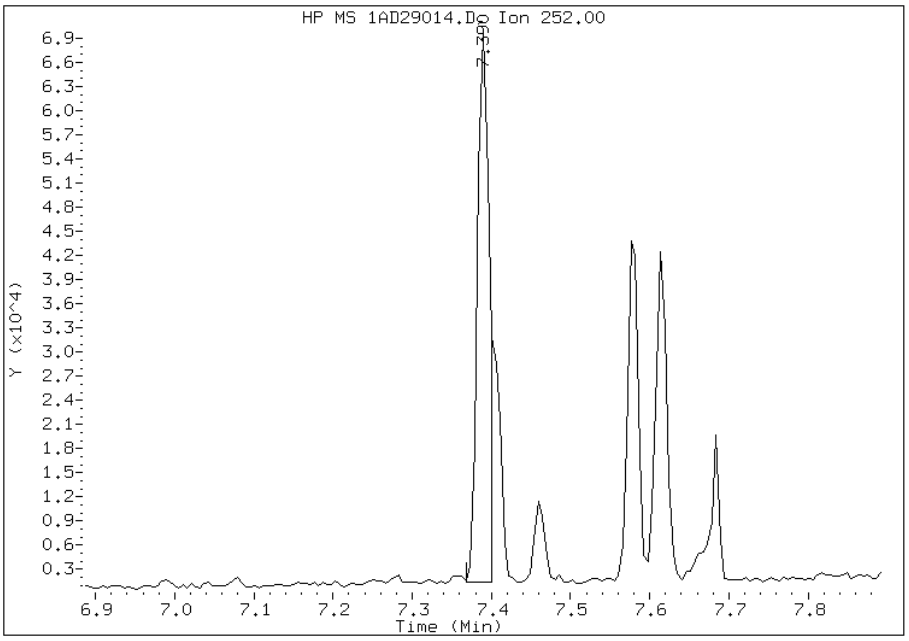
Manual Integration Results

RT: 7.39

Response: 70524

Amount: 1

Conc: 428



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:46
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29014.D
Inj. Date and Time: 29-APR-2013 15:24
Instrument ID: BSMA5973.i
Client ID: CV1202B-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

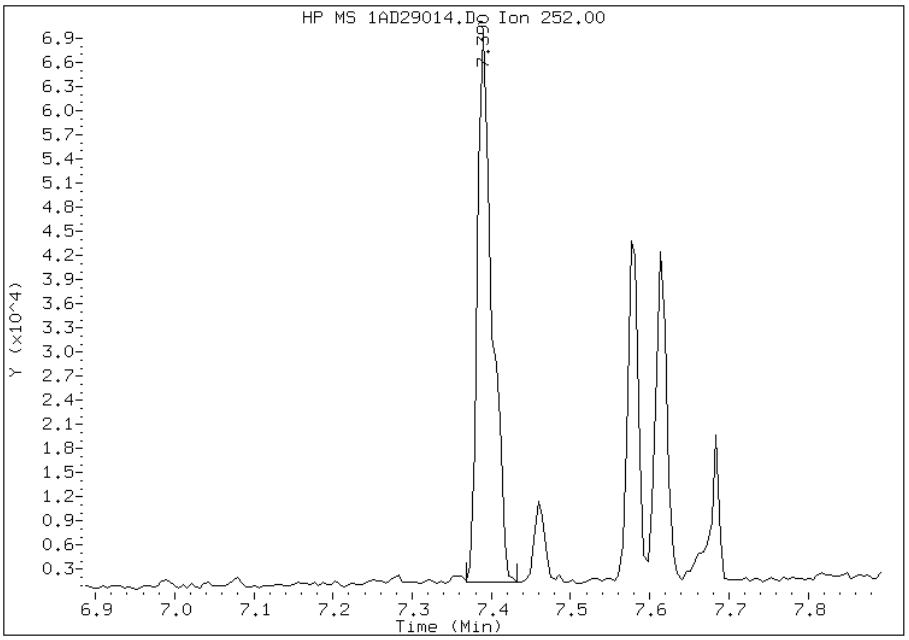
Processing Integration Results

RT: 7.39

Response: 87756

Amount: 1

Conc: 463



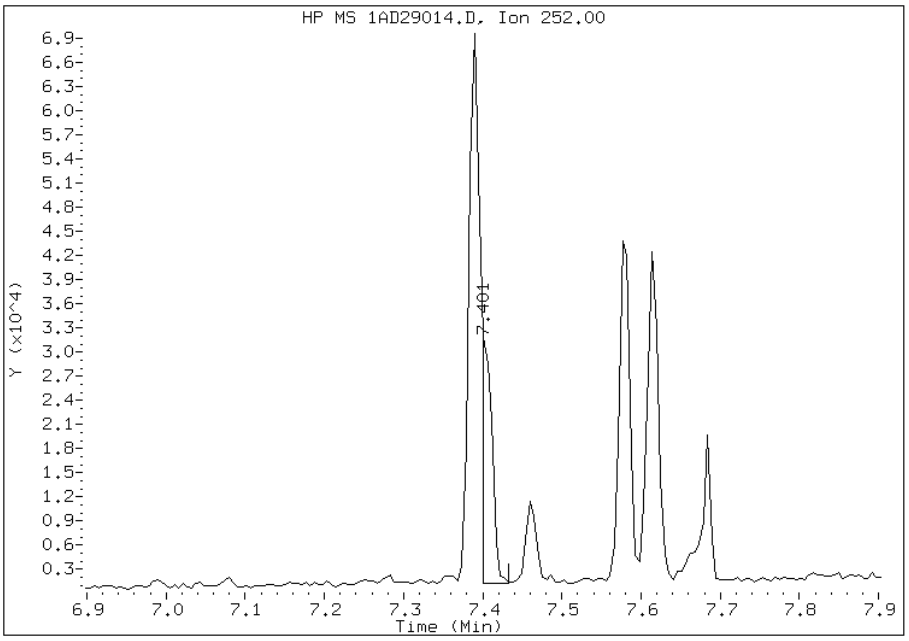
Manual Integration Results

RT: 7.40

Response: 27329

Amount: 0

Conc: 144



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29014.D
Inj. Date and Time: 29-APR-2013 15:24
Instrument ID: BSMA5973.i
Client ID: CV1202B-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

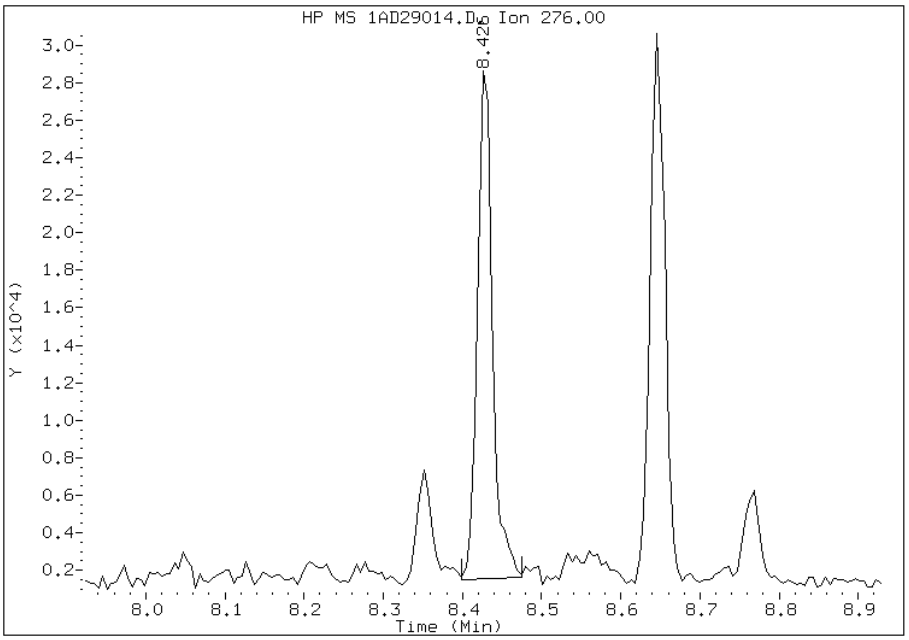
Processing Integration Results

RT: 8.43

Response: 35105

Amount: 1

Conc: 227



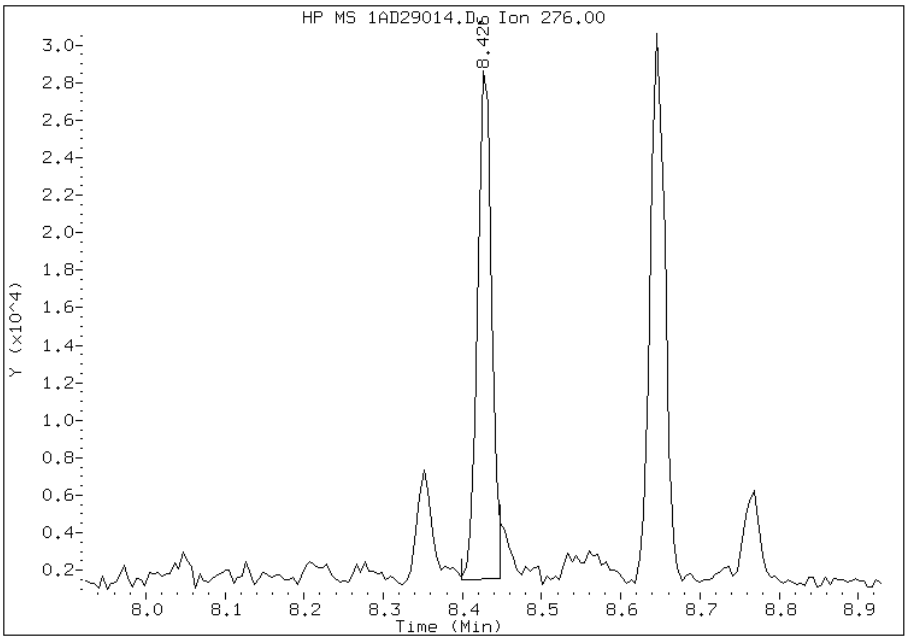
Manual Integration Results

RT: 8.43

Response: 33218

Amount: 1

Conc: 215



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV0147A-CS-SP | Lab Sample ID: 680-89695-12

Matrix: Solid | Lab File ID: 1AD29015.D

Analysis Method: 8270C LL | Date Collected: 04/23/2013 10:33

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 15.02(g) | Date Analyzed: 04/29/2013 15:39

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

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

% Moisture: 16.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136961 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	15	J	48	6.0
120-12-7	Anthracene	19		10	5.0
56-55-3	Benzo[a]anthracene	55		9.6	4.7
50-32-8	Benzo[a]pyrene	60		12	6.2
205-99-2	Benzo[b]fluoranthene	110		15	7.3
191-24-2	Benzo[g,h,i]perylene	55		24	5.3
207-08-9	Benzo[k]fluoranthene	29		9.6	4.3
218-01-9	Chrysene	79		11	5.4
53-70-3	Dibenz(a,h)anthracene	17	J	24	4.9
206-44-0	Fluoranthene	69		24	4.8
86-73-7	Fluorene	6.0	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	53		24	8.5
90-12-0	1-Methylnaphthalene	44	J	48	5.3
91-57-6	2-Methylnaphthalene	56		48	8.5
91-20-3	Naphthalene	46	J	48	5.3
85-01-8	Phenanthrene	78		9.6	4.7
129-00-0	Pyrene	52		24	4.4

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\BSMA5973.i\1A042913.b\1AD29015.D
Lab Smp Id: 680-89695-A-12-A Client Smp ID: CV0147A-CS-SP
Inj Date : 29-APR-2013 15:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89695-a-12-a
Misc Info : 680-89695-A-12-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	16.493	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.576	2.572	(1.000)	2126204	40.0000	
* 6 Acenaphthene-d10	164	3.607	3.603	(1.000)	1103583	40.0000	
* 10 Phenanthrene-d10	188	4.563	4.554	(1.000)	1704989	40.0000	
$ 14 o-Terphenyl	230	4.857	4.859	(1.064)	128838	4.61992	368.3321
* 18 Chrysene-d12	240	6.588	6.574	(1.000)	1765457	40.0000	
* 23 Perylene-d12	264	7.677	7.663	(1.000)	2183715	40.0000	
2 Naphthalene	128	2.586	2.583	(1.004)	30460	0.57309	45.6905
3 2-Methylnaphthalene	141	2.992	2.989	(1.162)	21291	0.69870	55.7049
4 1-Methylnaphthalene	142	3.051	3.048	(1.185)	18763	0.55576	44.3090
5 Acenaphthylene	152	3.516	3.513	(0.975)	11765	0.18241	14.5432
9 Fluorene	166	3.938	3.935	(1.092)	3075	0.07556	6.0244(Q)
11 Phenanthrene	178	4.574	4.570	(1.002)	48258	0.97708	77.8995
12 Anthracene	178	4.606	4.608	(1.009)	12164	0.23686	18.8841
13 Carbazole	167	4.739	4.736	(1.039)	6362	0.12842	10.2382

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.439	5.436	(1.192)	49019	0.85928	68.5077
16 Pyrene	202	5.605	5.601	(0.851)	43586	0.64712	51.5932
17 Benzo(a)anthracene	228	6.577	6.563	(0.998)	39580	0.68650	54.7327
19 Chrysene	228	6.598	6.595	(1.002)	58244	0.99576	79.3892
20 Benzo(b)fluoranthene	252	7.389	7.380	(0.962)	94310	1.42255	113.4159(M)
21 Benzo(k)fluoranthene	252	7.405	7.407	(0.965)	27277	0.35785	28.5305(QM)
22 Benzo(a)pyrene	252	7.619	7.610	(0.992)	49899	0.75659	60.3205
24 Indeno(1,2,3-cd)pyrene	276	8.431	8.427	(1.098)	41017	0.65866	52.5133(M)
25 Dibenzo(a,h)anthracene	278	8.457	8.454	(1.102)	12173	0.21009	16.7498
26 Benzo(g,h,i)perylene	276	8.655	8.646	(1.127)	48439	0.69501	55.4111

QC Flag Legend

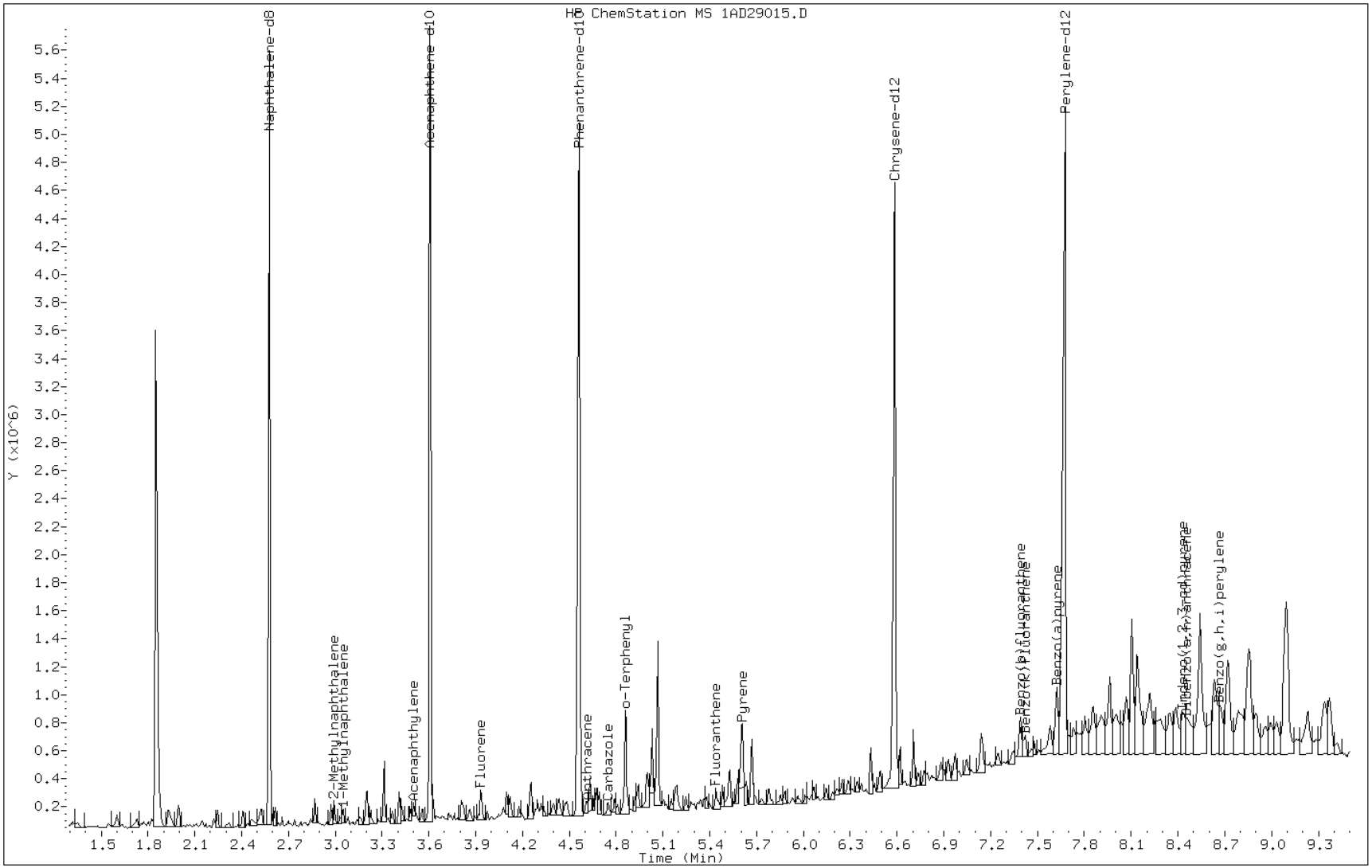
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AD29015.D

Date: 29-APR-2013 15:39

Client ID: CV0147A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a Operator: SCC



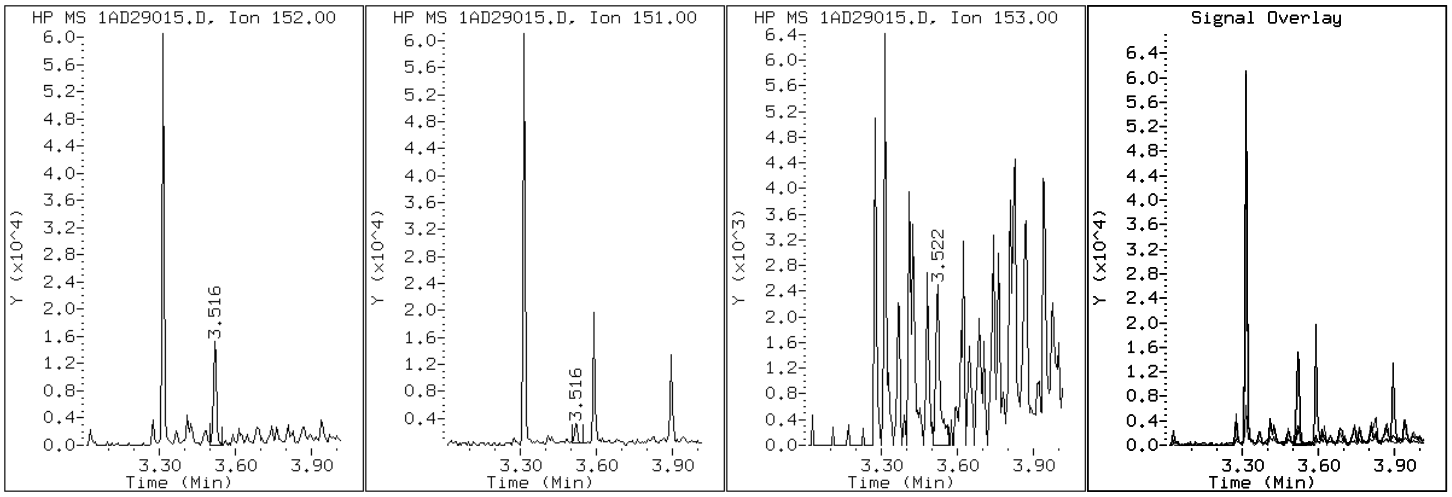
Data File: 1AD29015.D

Date: 29-APR-2013 15:39

Client ID: CV0147A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a Operator: SCC

5 Acenaphthylene



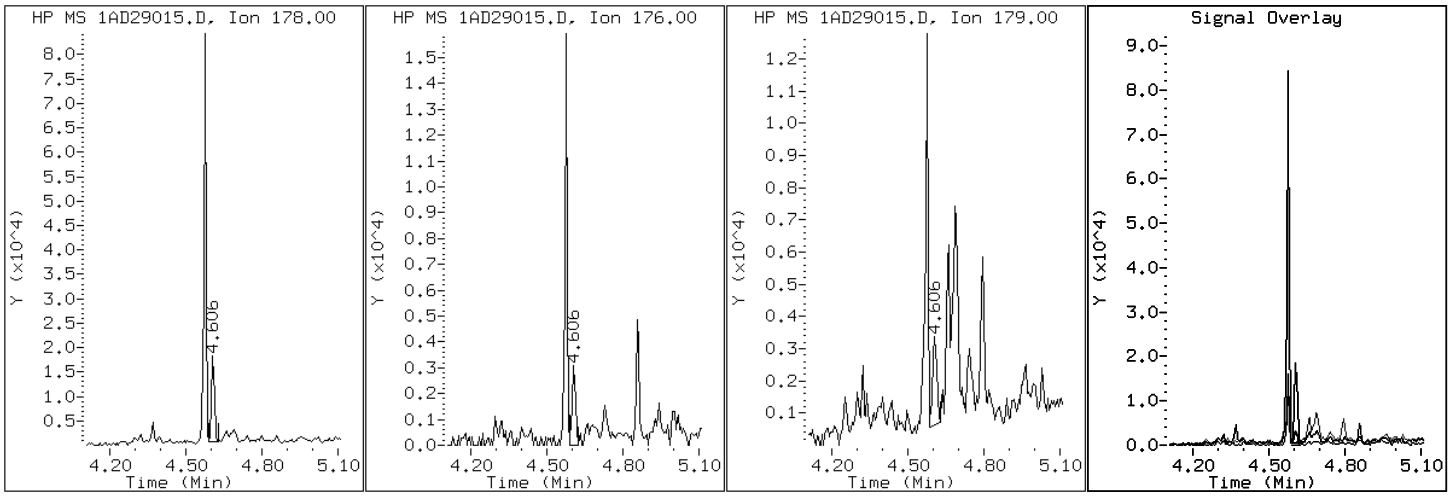
Data File: 1AD29015.D

Date: 29-APR-2013 15:39

Client ID: CV0147A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a Operator: SCC

12 Anthracene



Data File: 1AD29015.D

Date: 29-APR-2013 15:39

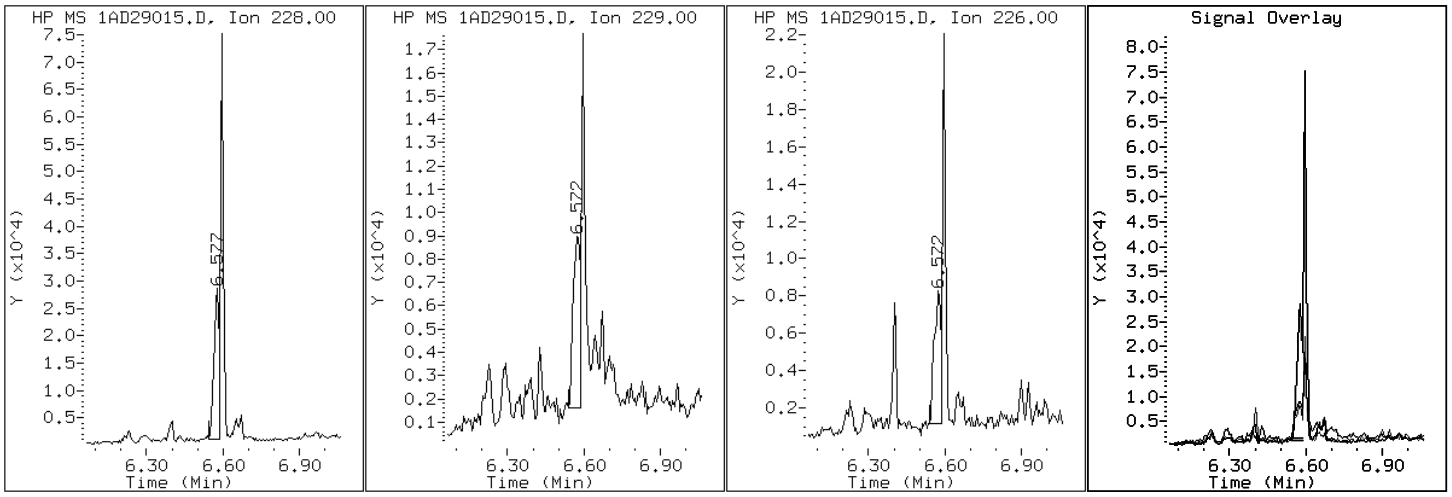
Client ID: CV0147A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a

Operator: SCC

17 Benzo(a)anthracene



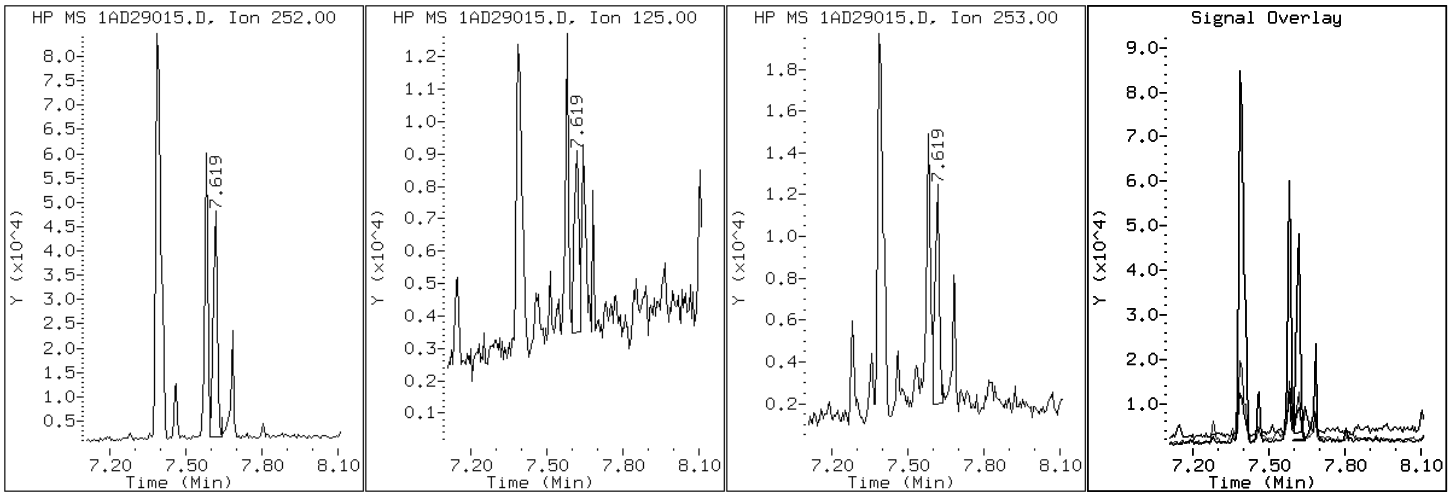
Data File: 1AD29015.D

Date: 29-APR-2013 15:39

Client ID: CV0147A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a Operator: SCC

22 Benzo(a)pyrene



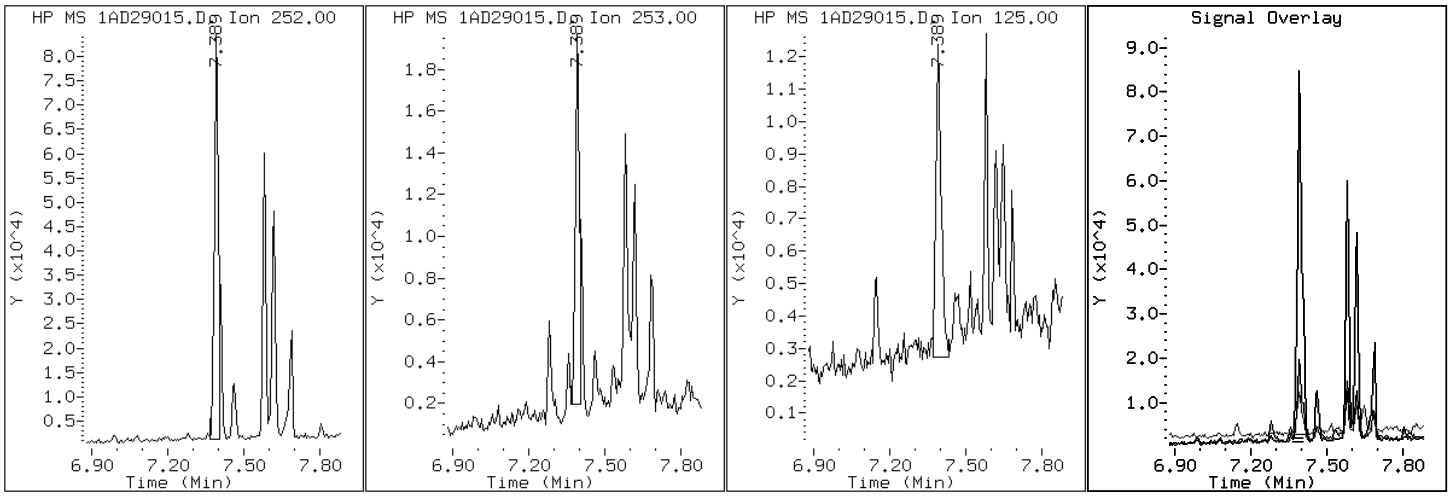
Data File: 1AD29015.D

Date: 29-APR-2013 15:39

Client ID: CV0147A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a Operator: SCC

20 Benzo(b)fluoranthene



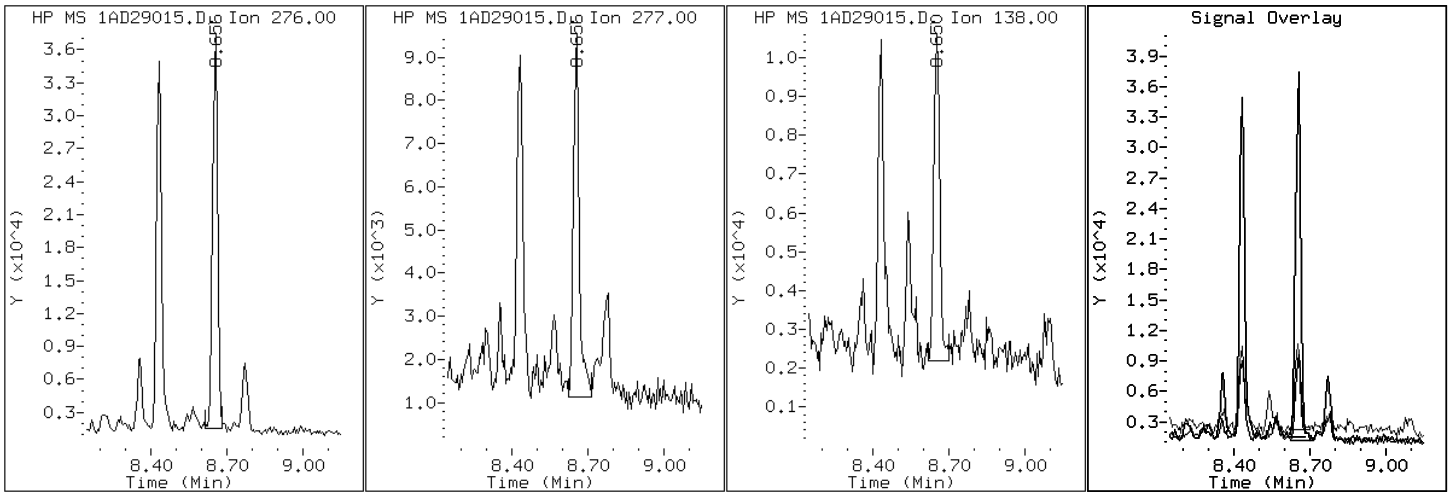
Data File: 1AD29015.D

Date: 29-APR-2013 15:39

Client ID: CV0147A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a Operator: SCC

26 Benzo(g,h,i)perylene



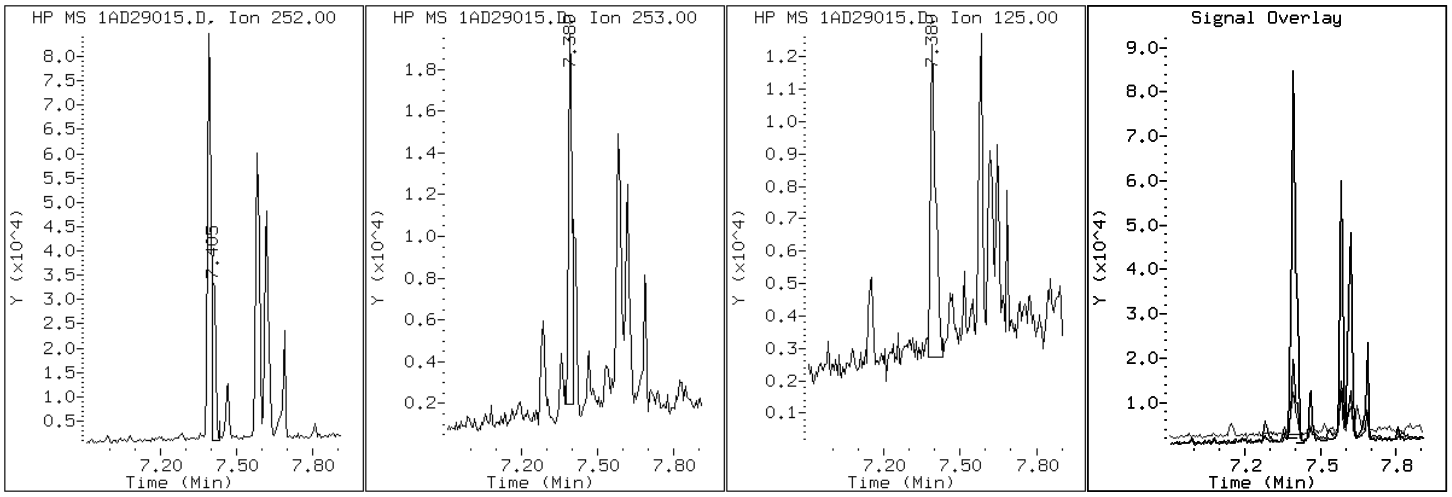
Data File: 1AD29015.D

Date: 29-APR-2013 15:39

Client ID: CV0147A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a Operator: SCC

21 Benzo(k)fluoranthene



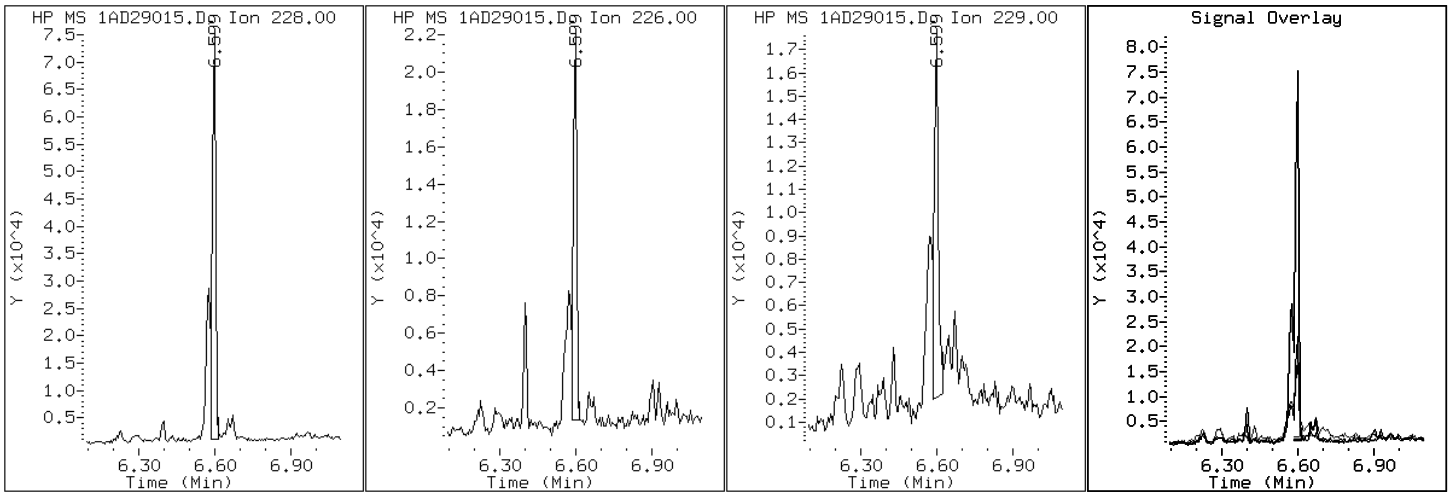
Data File: 1AD29015.D

Date: 29-APR-2013 15:39

Client ID: CV0147A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a Operator: SCC

19 Chrysene



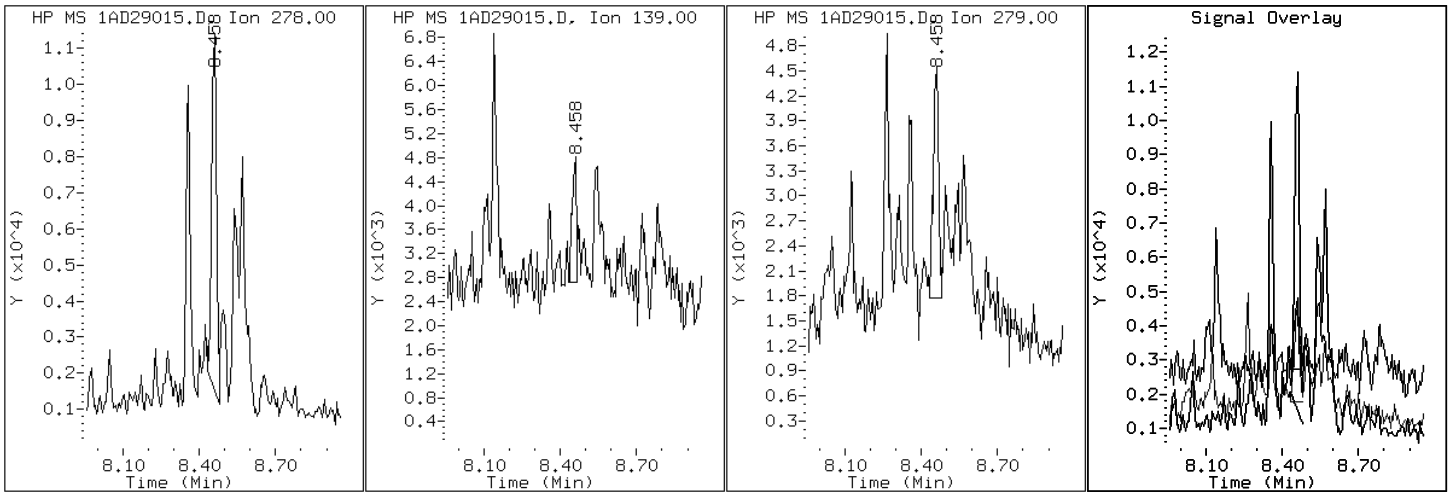
Data File: 1AD29015.D

Date: 29-APR-2013 15:39

Client ID: CV0147A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a Operator: SCC

25 Dibenzo(a,h)anthracene



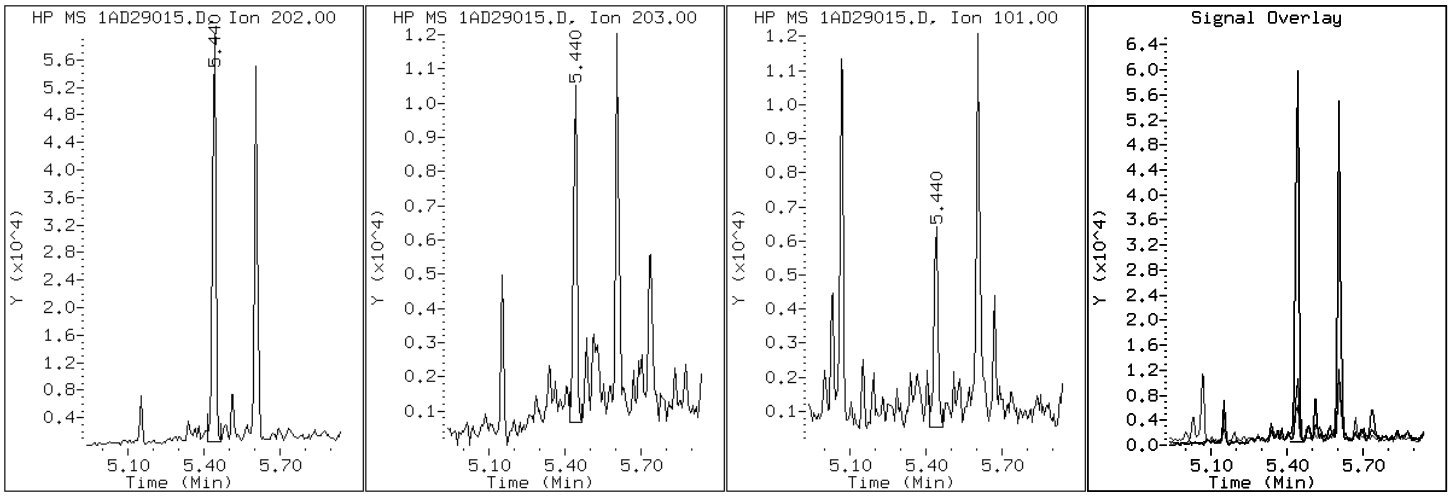
Data File: 1AD29015.D

Date: 29-APR-2013 15:39

Client ID: CV0147A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a Operator: SCC

15 Fluoranthene



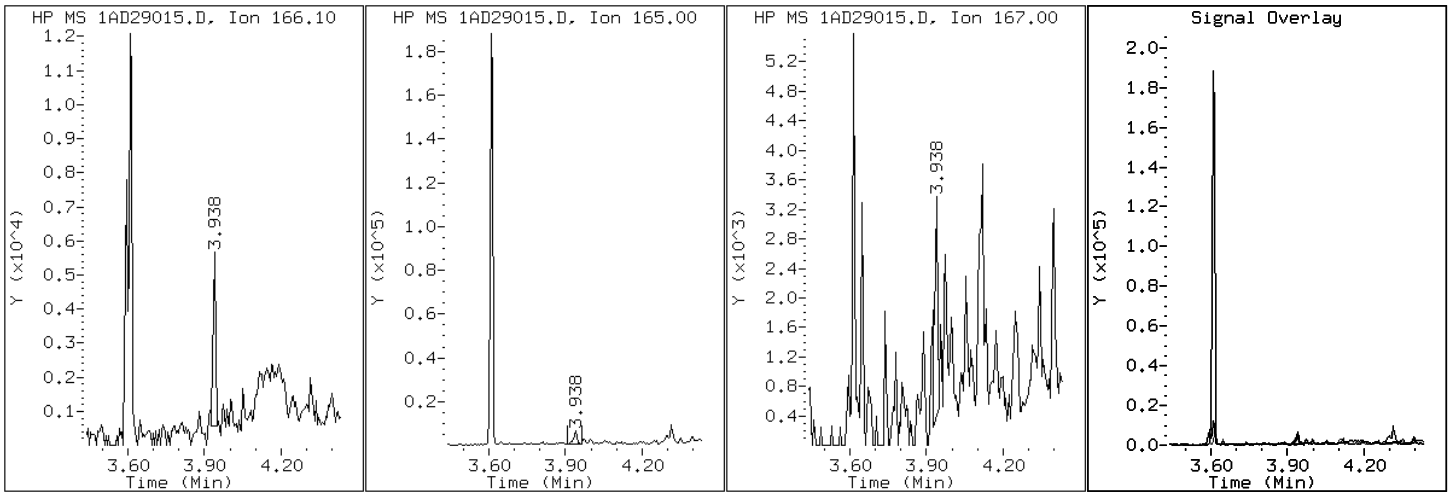
Data File: 1AD29015.D

Date: 29-APR-2013 15:39

Client ID: CV0147A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a Operator: SCC

9 Fluorene



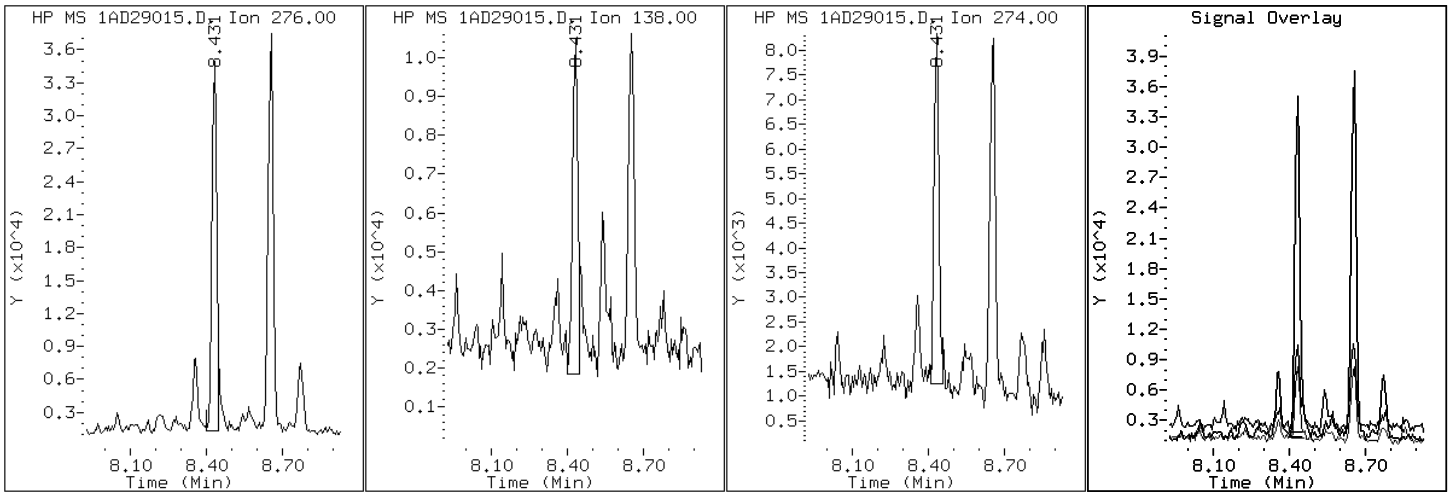
Data File: 1AD29015.D

Date: 29-APR-2013 15:39

Client ID: CV0147A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a Operator: SCC

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



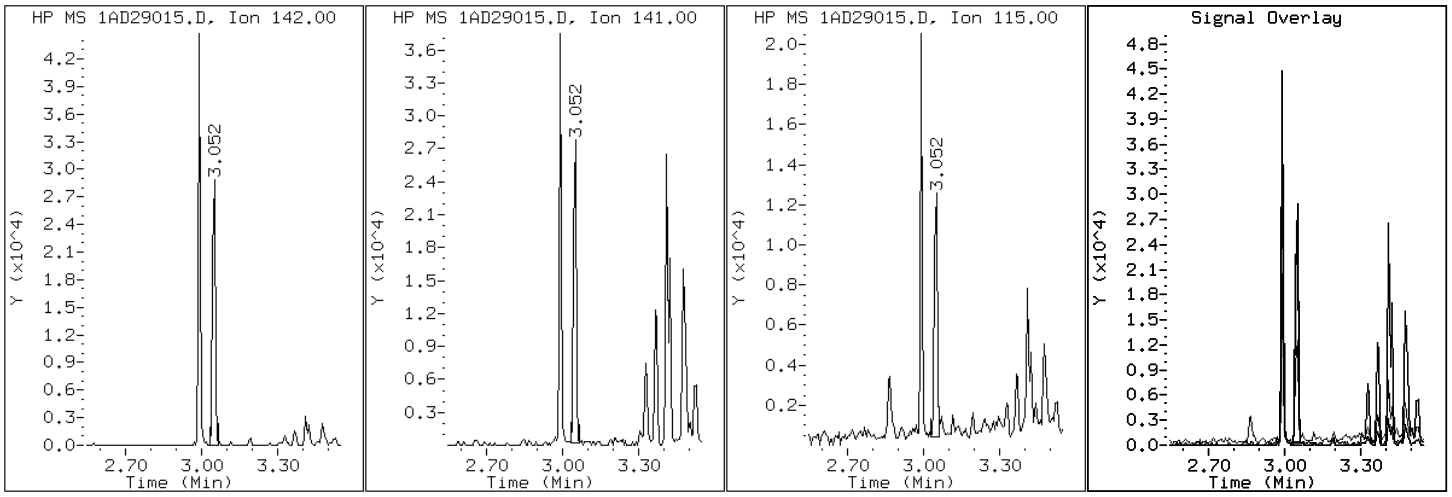
Data File: 1AD29015.D

Date: 29-APR-2013 15:39

Client ID: CV0147A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a Operator: SCC

4 1-Methylnaphthalene



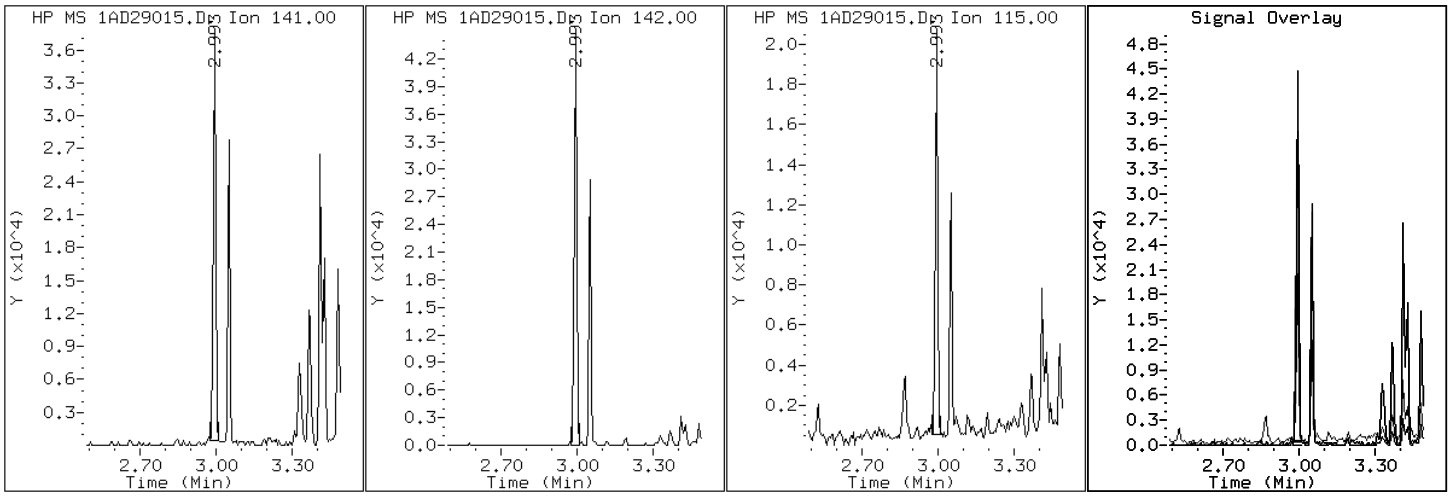
Data File: 1AD29015.D

Date: 29-APR-2013 15:39

Client ID: CV0147A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a Operator: SCC

3 2-Methylnaphthalene



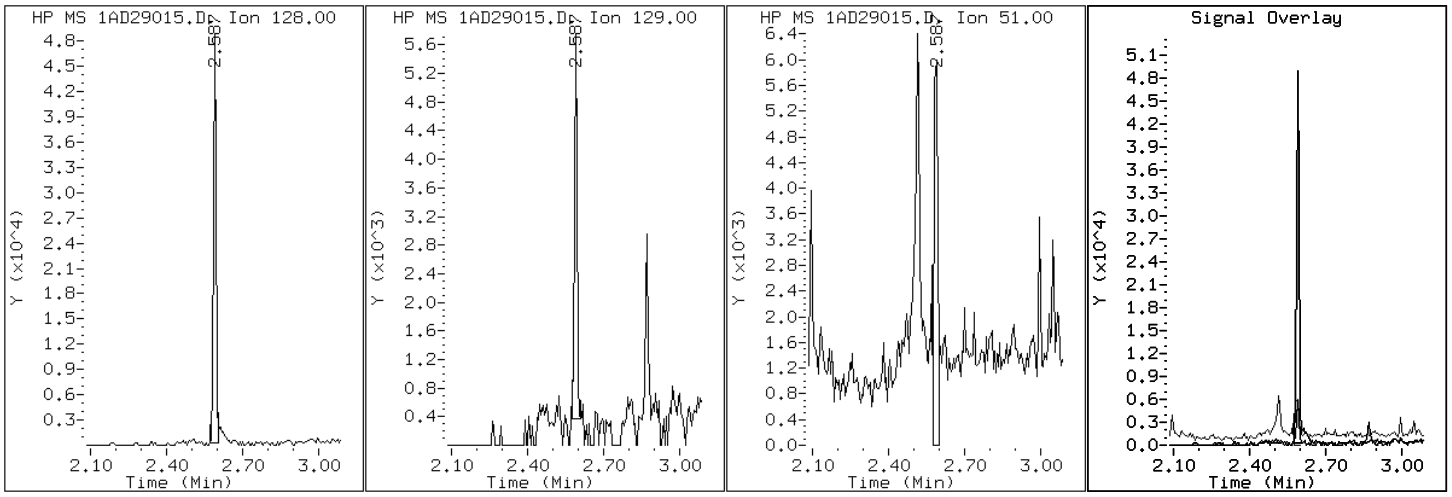
Data File: 1AD29015.D

Date: 29-APR-2013 15:39

Client ID: CV0147A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a Operator: SCC

2 Naphthalene



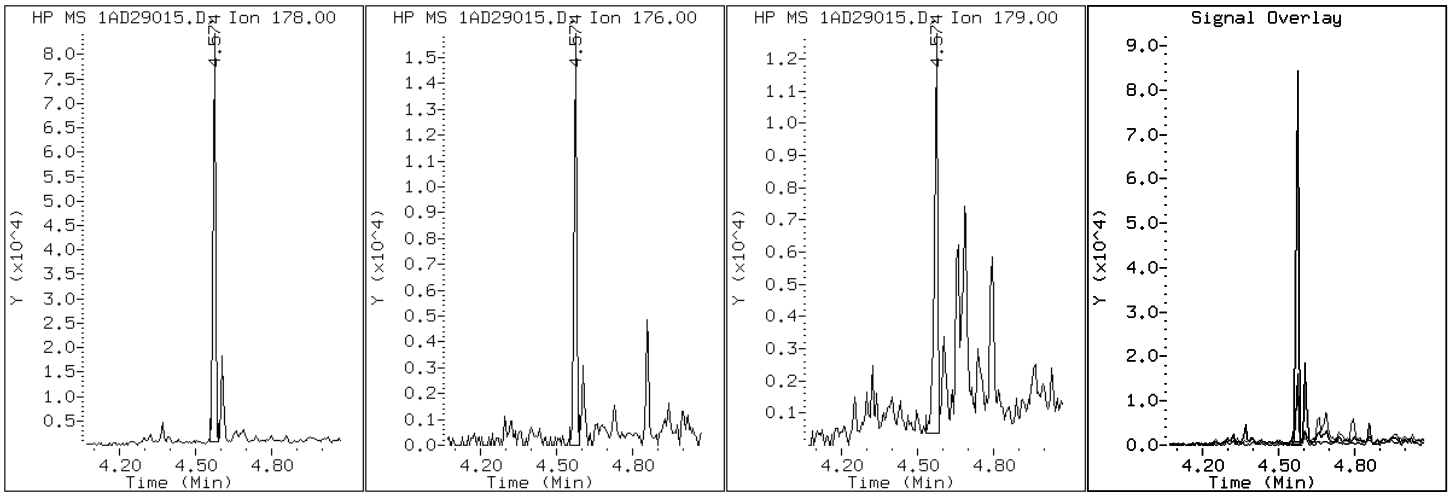
Data File: 1AD29015.D

Date: 29-APR-2013 15:39

Client ID: CV0147A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a Operator: SCC

11 Phenanthrene



Data File: 1AD29015.D

Date: 29-APR-2013 15:39

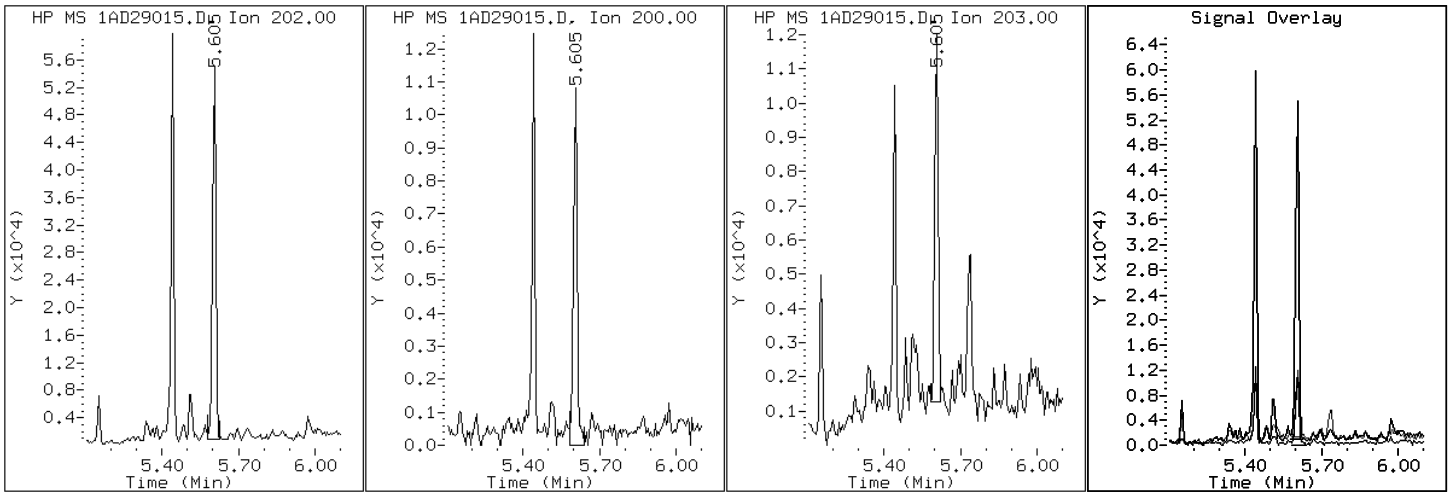
Client ID: CV0147A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-12-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD29015.D
Inj. Date and Time: 29-APR-2013 15:39
Instrument ID: BSMA5973.i
Client ID: CV0147A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

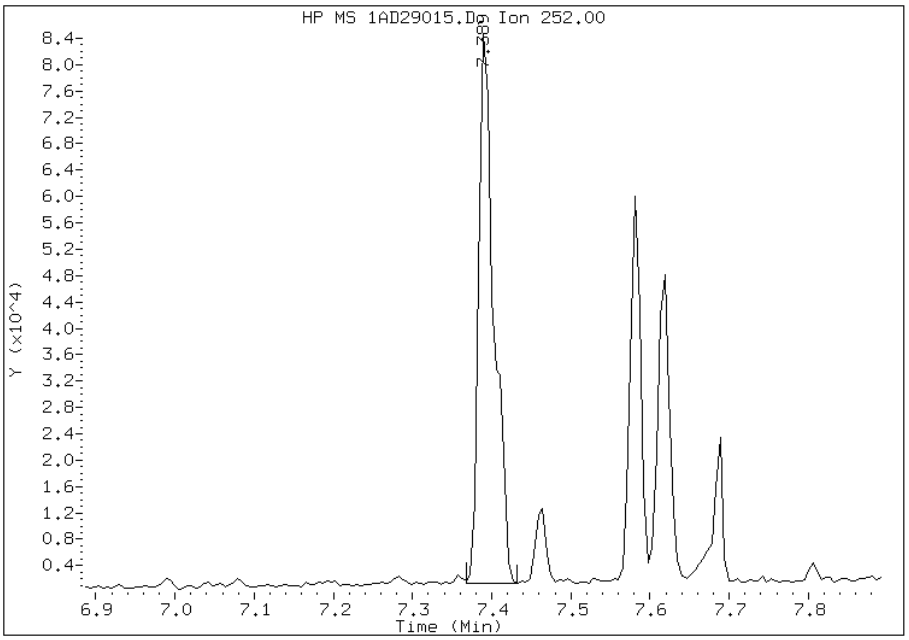
Processing Integration Results

RT: 7.39

Response: 110621

Amount: 2

Conc: 133



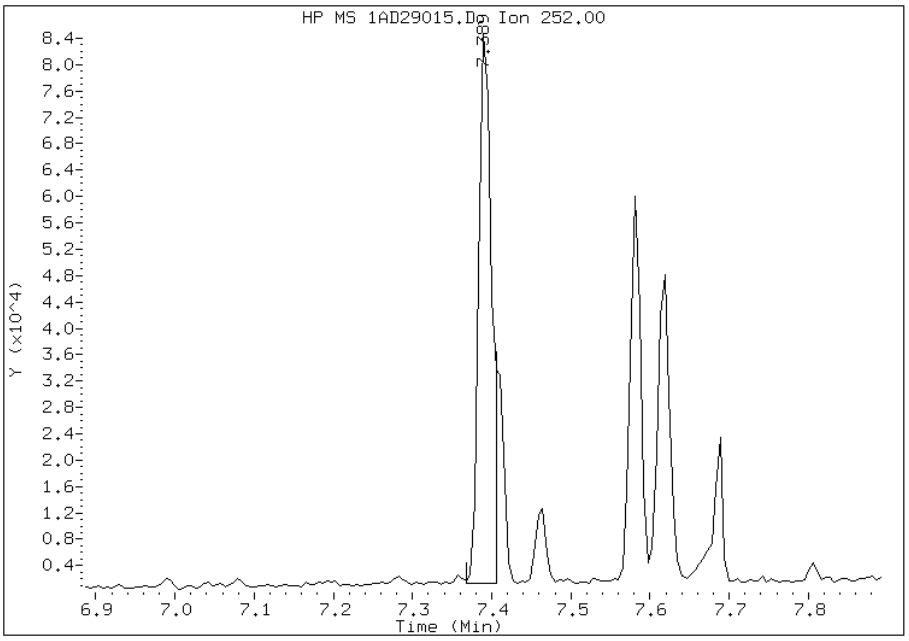
Manual Integration Results

RT: 7.39

Response: 94310

Amount: 1

Conc: 113



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:48
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29015.D
Inj. Date and Time: 29-APR-2013 15:39
Instrument ID: BSMA5973.i
Client ID: CV0147A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

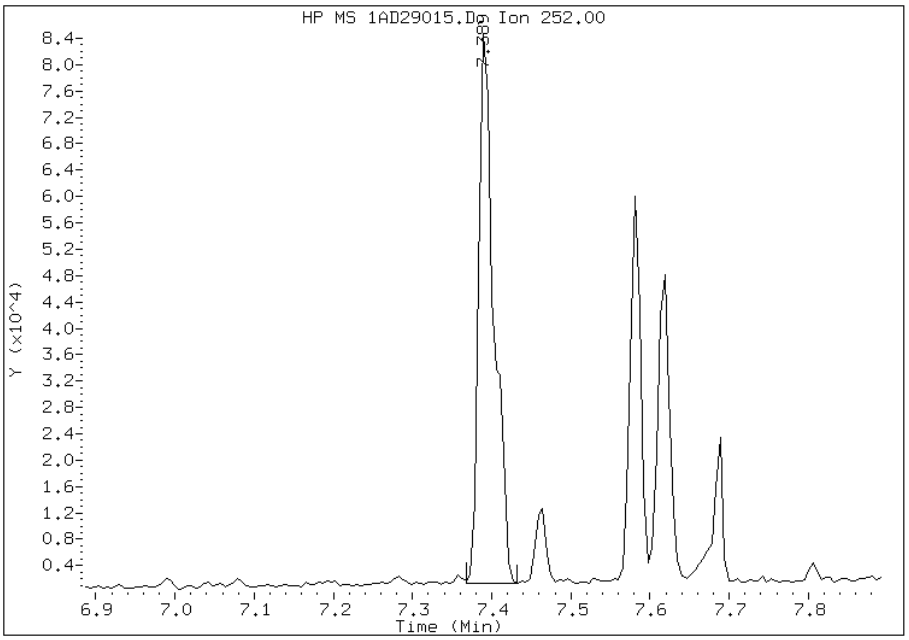
Processing Integration Results

RT: 7.39

Response: 110621

Amount: 1

Conc: 116



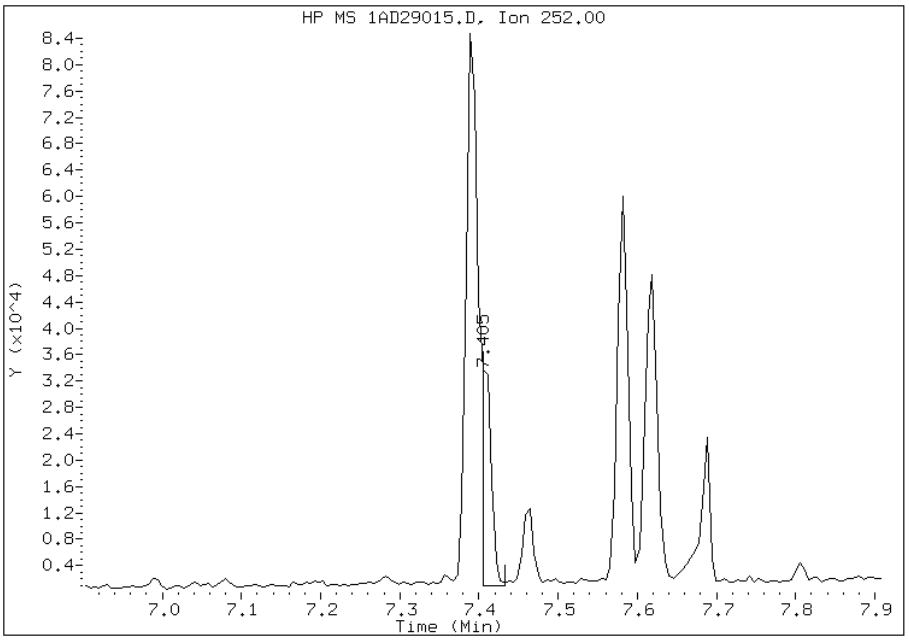
Manual Integration Results

RT: 7.41

Response: 27277

Amount: 0

Conc: 29



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29015.D
Inj. Date and Time: 29-APR-2013 15:39
Instrument ID: BSMA5973.i
Client ID: CV0147A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

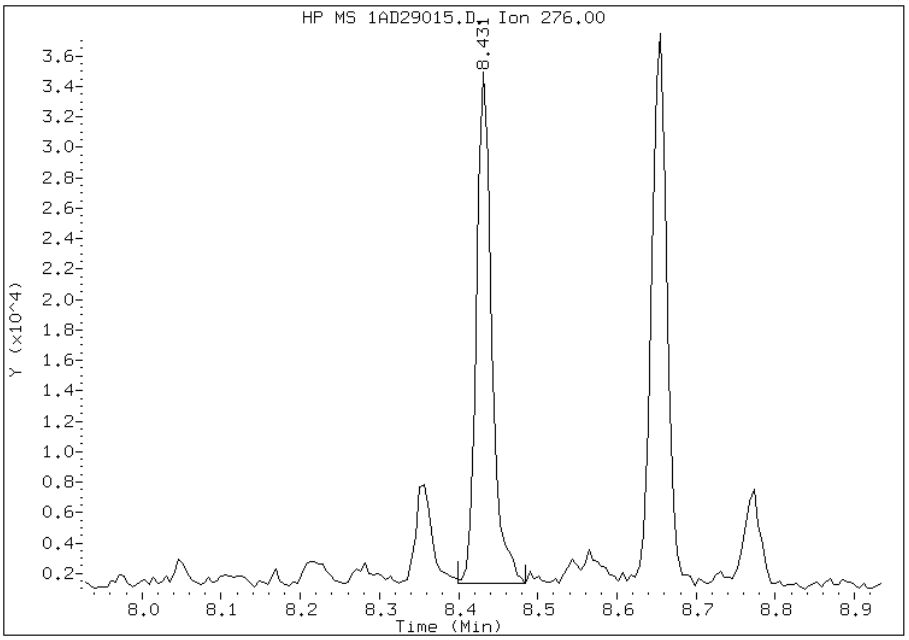
Processing Integration Results

RT: 8.43

Response: 44554

Amount: 1

Conc: 57



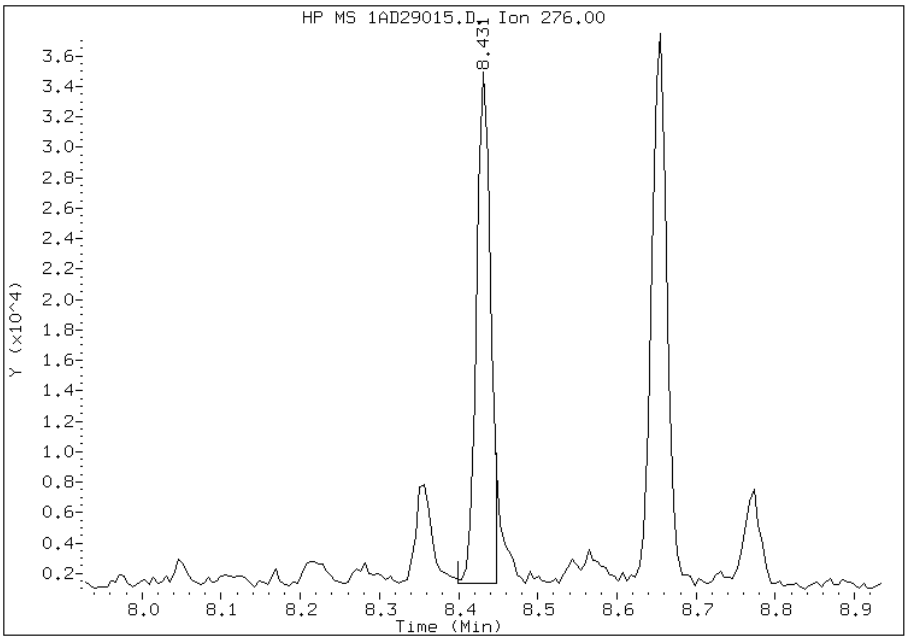
Manual Integration Results

RT: 8.43

Response: 41017

Amount: 1

Conc: 53



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV0427A-CS-SP | Lab Sample ID: 680-89695-13

Matrix: Solid | Lab File ID: 1AD29016.D

Analysis Method: 8270C LL | Date Collected: 04/23/2013 08:53

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 15.28(g) | Date Analyzed: 04/29/2013 15:54

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.: 136961 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	51	J	200	25
120-12-7	Anthracene	74		42	21
56-55-3	Benzo[a]anthracene	240		40	20
50-32-8	Benzo[a]pyrene	200		52	26
205-99-2	Benzo[b]fluoranthene	360		61	31
191-24-2	Benzo[g,h,i]perylene	190		100	22
207-08-9	Benzo[k]fluoranthene	110		40	18
218-01-9	Chrysene	300		45	23
53-70-3	Dibenz(a,h)anthracene	56	J	100	21
206-44-0	Fluoranthene	310		100	20
86-73-7	Fluorene	29	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	180		100	36
90-12-0	1-Methylnaphthalene	130	J	200	22
91-57-6	2-Methylnaphthalene	170	J	200	36
91-20-3	Naphthalene	140	J	200	22
85-01-8	Phenanthrene	300		40	20
129-00-0	Pyrene	240		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	48		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29016.D
Lab Smp Id: 680-89695-A-13-A Client Smp ID: CV0427A-CS-SP
Inj Date : 29-APR-2013 15:54
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89695-a-13-a
Misc Info : 680-89695-A-13-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 16
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	15.280	Weight Extracted
M	21.609	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.578	2.572	(1.000)	1646760	40.0000	
* 6 Acenaphthene-d10	164	3.609	3.603	(1.000)	814905	40.0000	
* 10 Phenanthrene-d10	188	4.560	4.554	(1.000)	1280886	40.0000	
$ 14 o-Terphenyl	230	4.859	4.859	(1.066)	24931	1.18998	397.3858
* 18 Chrysene-d12	240	6.585	6.574	(1.000)	1378058	40.0000	
* 23 Perylene-d12	264	7.675	7.663	(1.000)	1695403	40.0000	
2 Naphthalene	128	2.589	2.583	(1.004)	16847	0.40925	136.6656
3 2-Methylnaphthalene	141	2.995	2.989	(1.162)	12192	0.51658	172.5095
4 1-Methylnaphthalene	142	3.048	3.048	(1.182)	10245	0.39181	130.8406
5 Acenaphthylene	152	3.518	3.513	(0.975)	7203	0.15124	50.5064
9 Fluorene	166	3.941	3.935	(1.092)	2612	0.08692	29.0274(Q)
11 Phenanthrene	178	4.576	4.570	(1.004)	33072	0.89132	297.6480
12 Anthracene	178	4.608	4.608	(1.011)	8518	0.22078	73.7287
13 Carbazole	167	4.742	4.736	(1.040)	3947	0.10605	35.4141(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.442	5.436	(1.193)	39886	0.93068	310.7939
16 Pyrene	202	5.607	5.601	(0.852)	37870	0.72032	240.5452
17 Benzo(a)anthracene	228	6.574	6.563	(0.998)	31733	0.70513	235.4712
19 Chrysene	228	6.596	6.595	(1.002)	40511	0.88729	296.3051
20 Benzo(b)fluoranthene	252	7.392	7.380	(0.963)	56033	1.08862	363.5375(M)
21 Benzo(k)fluoranthene	252	7.402	7.407	(0.965)	19850	0.33542	112.0116(QM)
22 Benzo(a)pyrene	252	7.616	7.610	(0.992)	30459	0.59485	198.6450
24 Indeno(1,2,3-cd)pyrene	276	8.433	8.427	(1.099)	26580	0.54977	183.5902(M)
25 Dibenzo(a,h)anthracene	278	8.455	8.454	(1.102)	7526	0.16730	55.8683
26 Benzo(g,h,i)perylene	276	8.652	8.646	(1.127)	30887	0.57081	190.6190

QC Flag Legend

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

Data File: 1AD29016.D

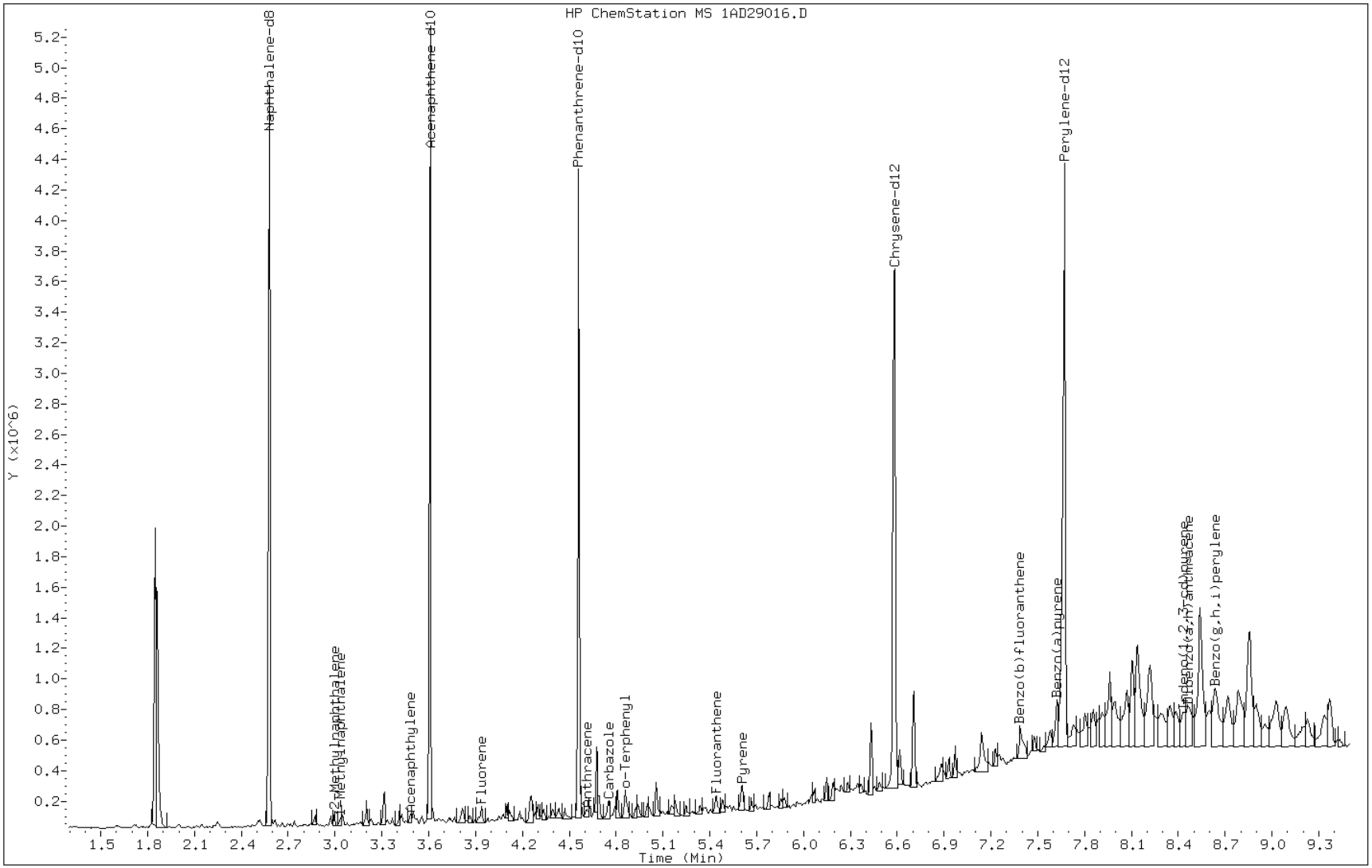
Date: 29-APR-2013 15:54

Client ID: CV0427A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a

Operator: SCC



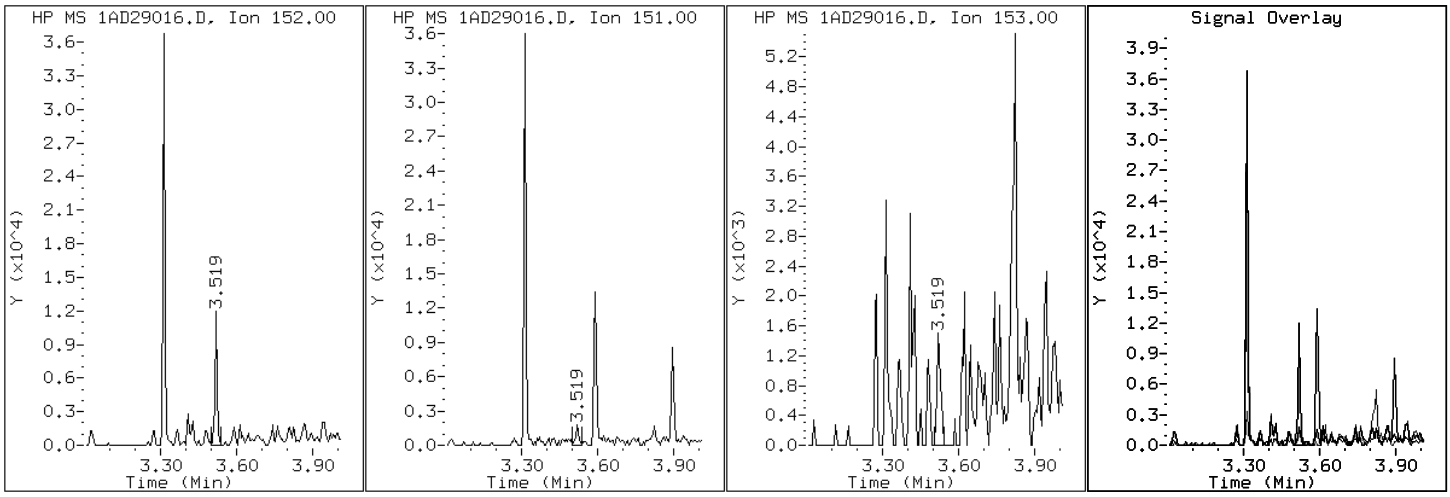
Data File: 1AD29016.D

Date: 29-APR-2013 15:54

Client ID: CV0427A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a Operator: SCC

5 Acenaphthylene



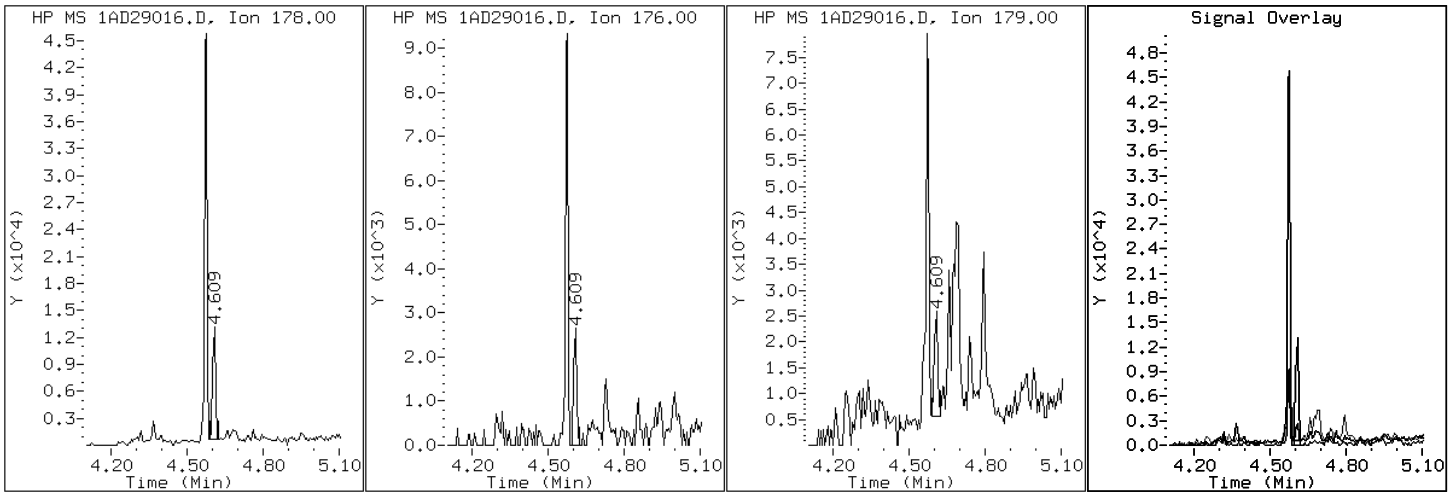
Data File: 1AD29016.D

Date: 29-APR-2013 15:54

Client ID: CV0427A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a Operator: SCC

12 Anthracene



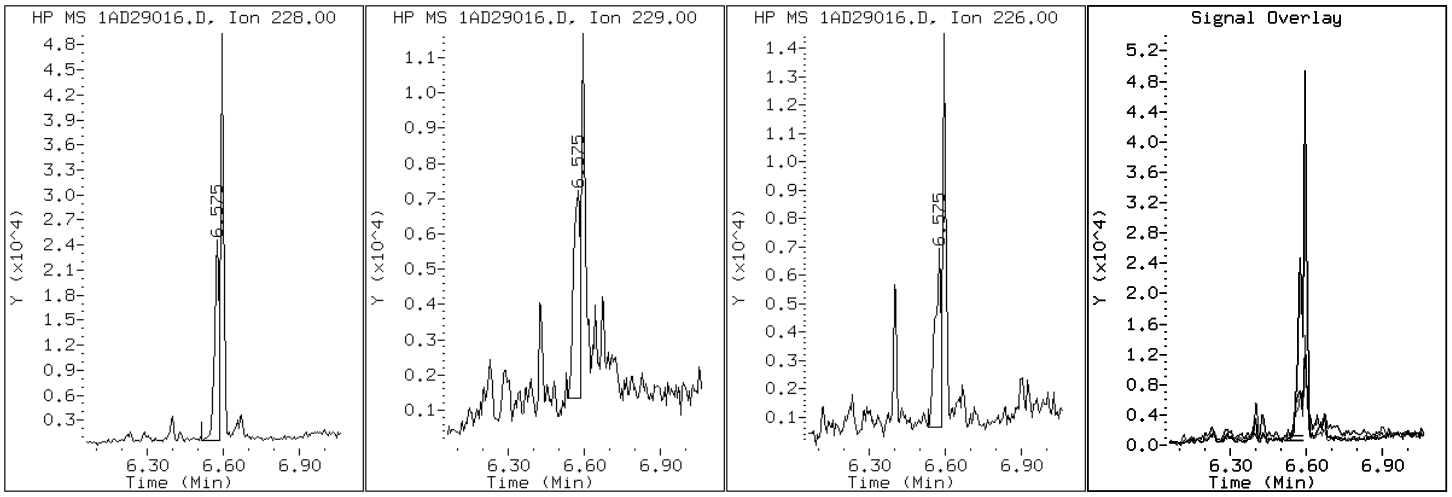
Data File: 1AD29016.D

Date: 29-APR-2013 15:54

Client ID: CV0427A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a Operator: SCC

17 Benzo(a)anthracene



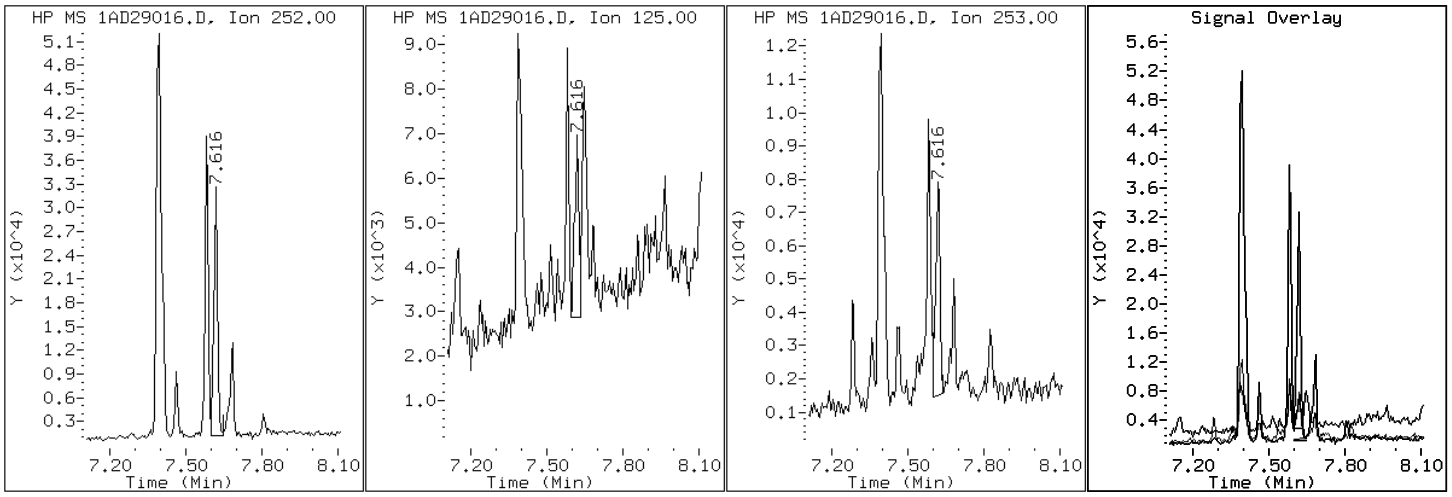
Data File: 1AD29016.D

Date: 29-APR-2013 15:54

Client ID: CV0427A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a Operator: SCC

22 Benzo(a)pyrene



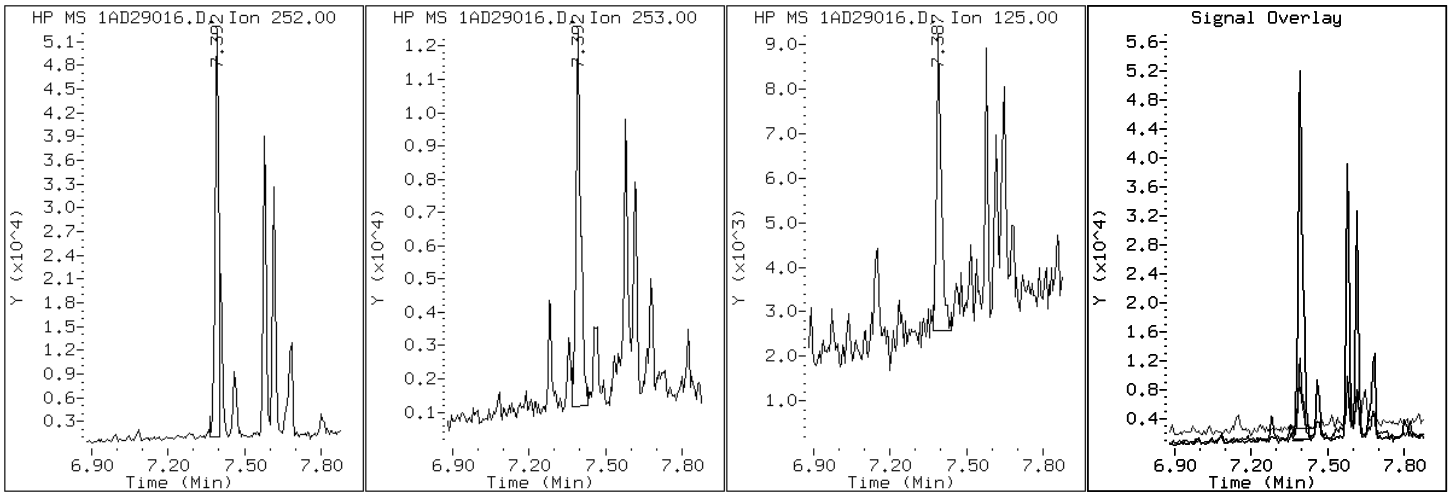
Data File: 1AD29016.D

Date: 29-APR-2013 15:54

Client ID: CV0427A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD29016.D

Date: 29-APR-2013 15:54

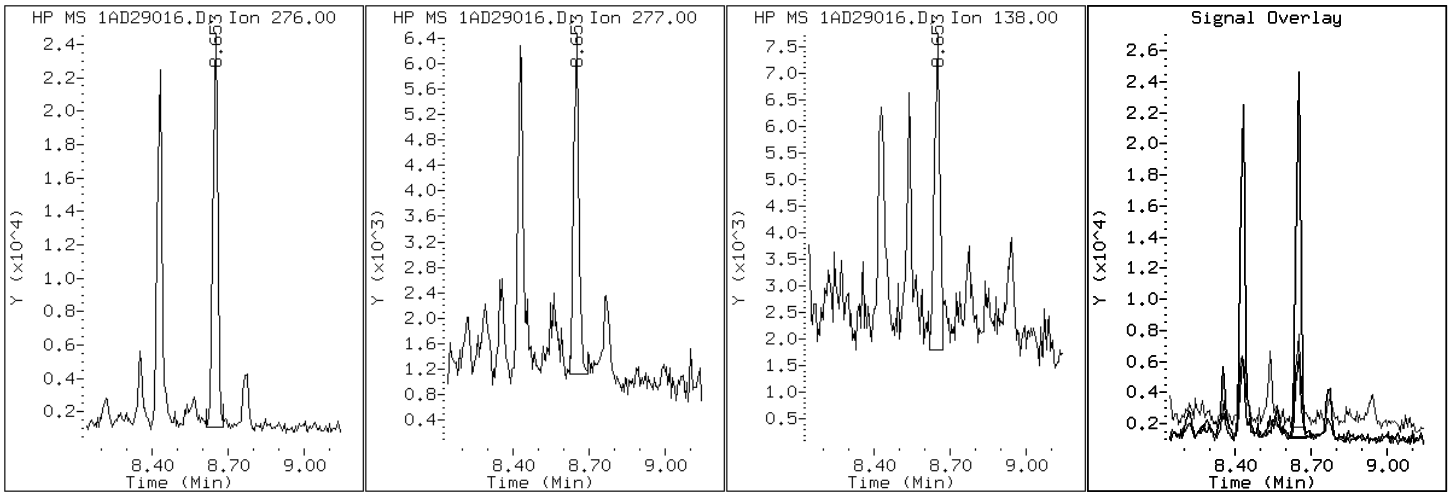
Client ID: CV0427A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a

Operator: SCC

26 Benzo(g,h,i)perylene



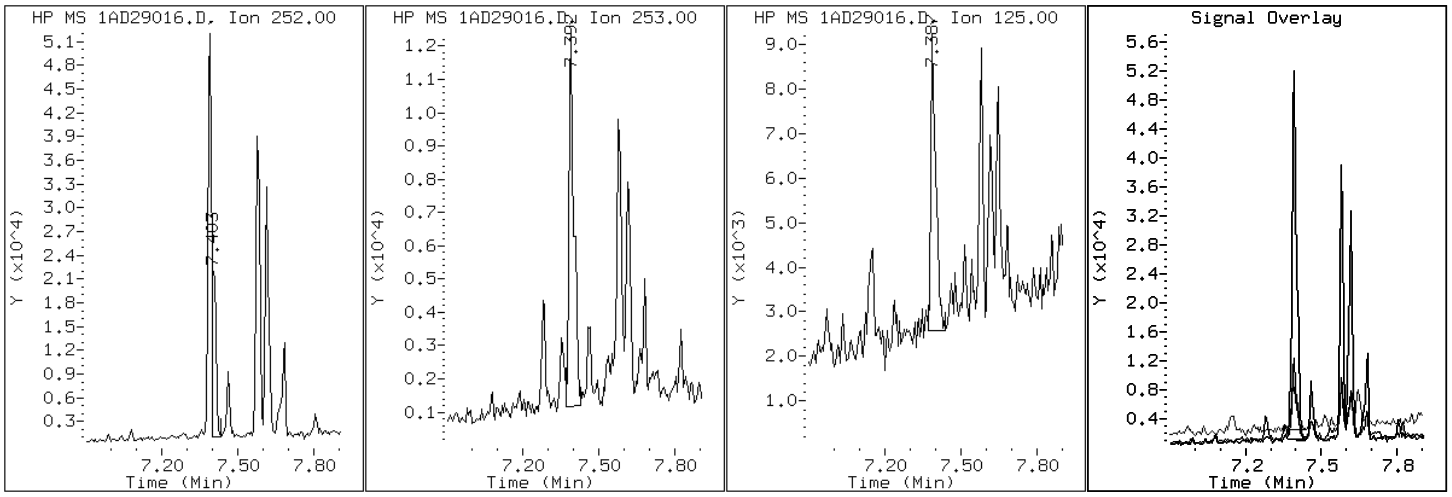
Data File: 1AD29016.D

Date: 29-APR-2013 15:54

Client ID: CV0427A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD29016.D

Date: 29-APR-2013 15:54

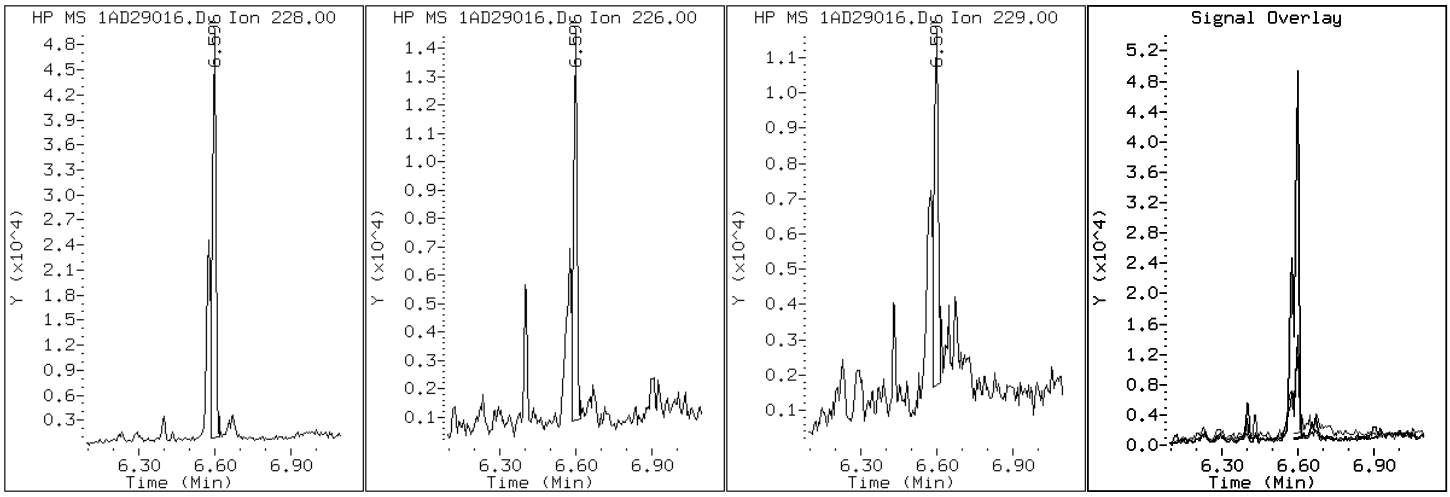
Client ID: CV0427A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a

Operator: SCC

19 Chrysene



Data File: 1AD29016.D

Date: 29-APR-2013 15:54

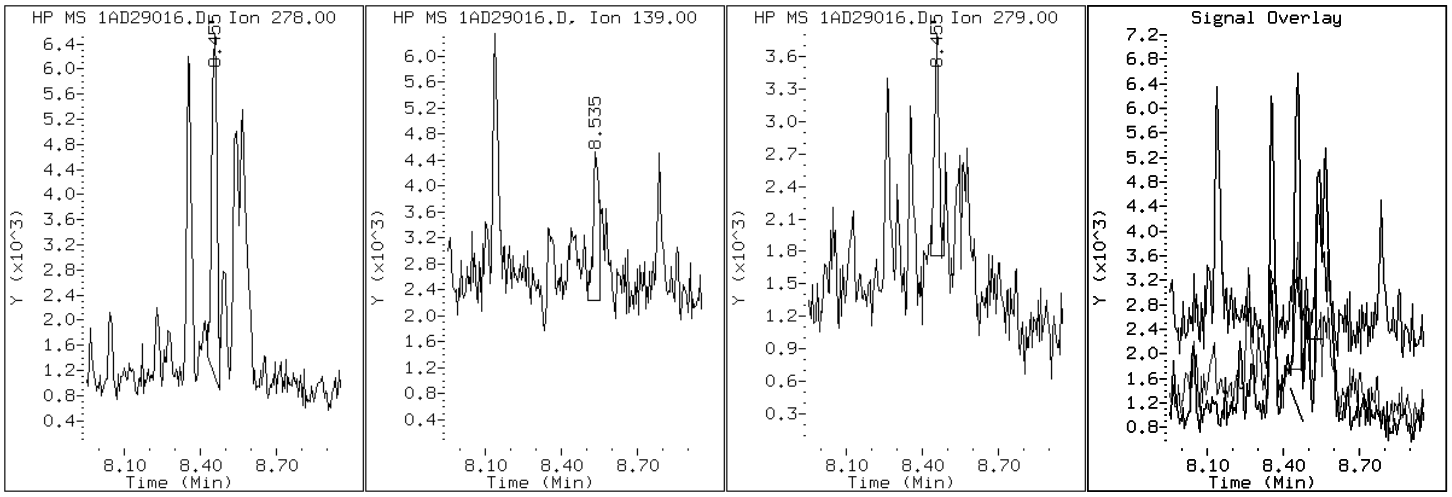
Client ID: CV0427A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a

Operator: SCC

25 Dibenzo(a,h)anthracene



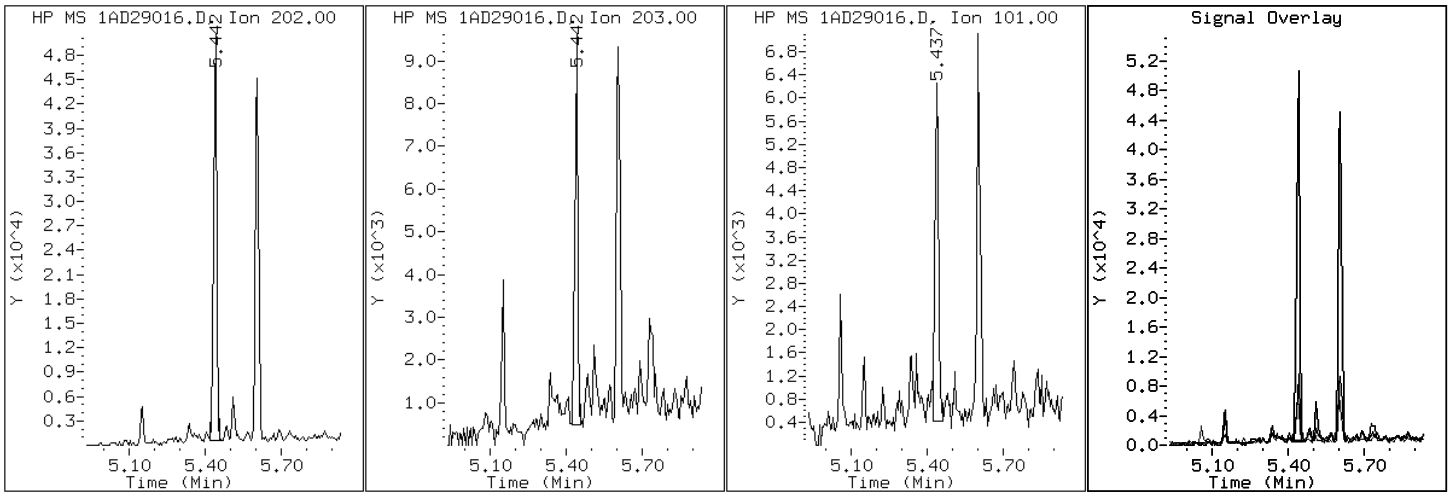
Data File: 1AD29016.D

Date: 29-APR-2013 15:54

Client ID: CV0427A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a Operator: SCC

15 Fluoranthene



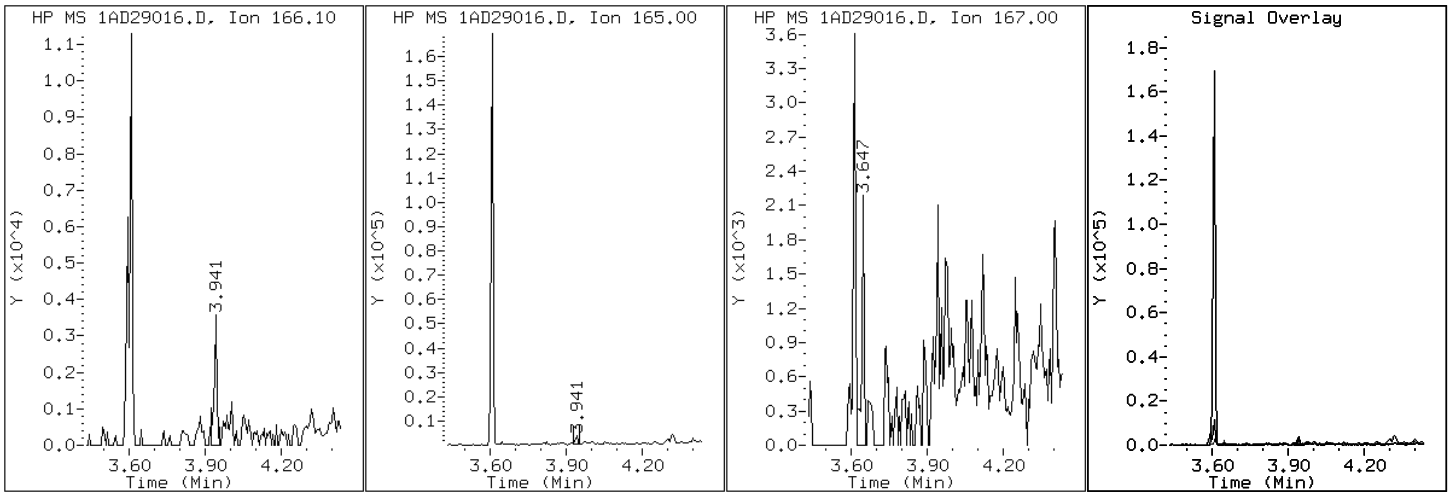
Data File: 1AD29016.D

Date: 29-APR-2013 15:54

Client ID: CV0427A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a Operator: SCC

9 Fluorene



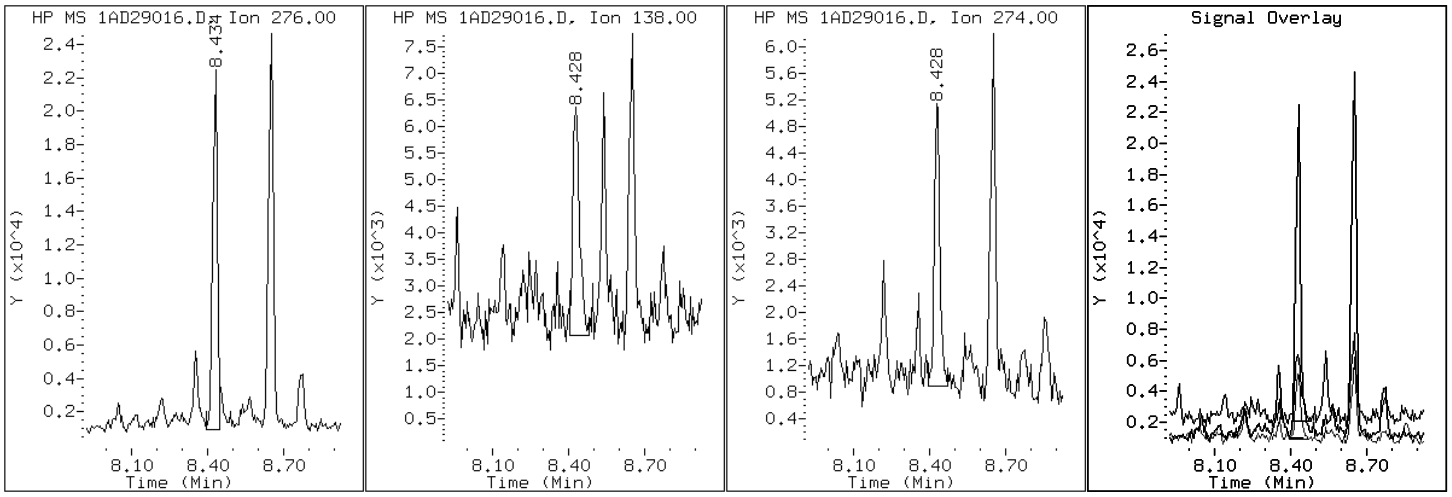
Data File: 1AD29016.D

Date: 29-APR-2013 15:54

Client ID: CV0427A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a Operator: SCC

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



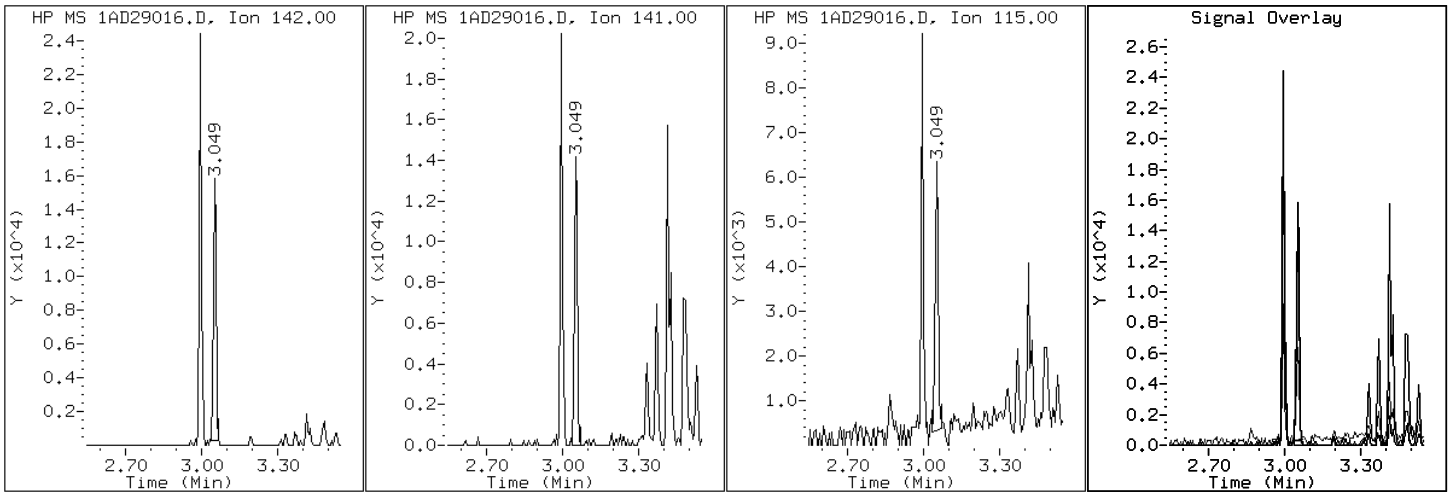
Data File: 1AD29016.D

Date: 29-APR-2013 15:54

Client ID: CV0427A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a Operator: SCC

4 1-Methylnaphthalene



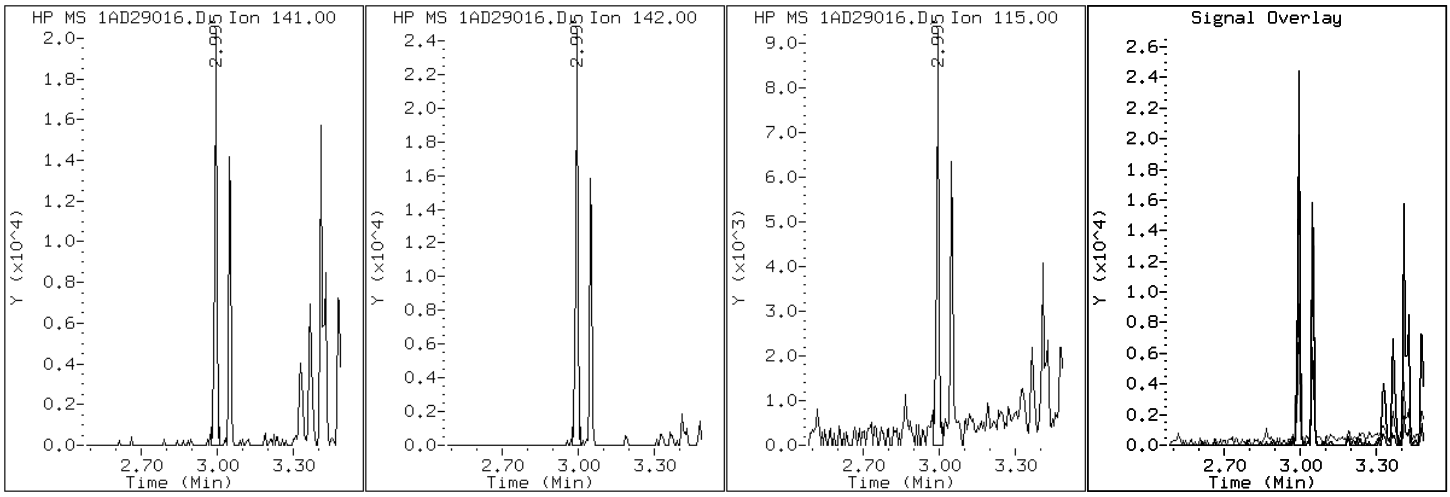
Data File: 1AD29016.D

Date: 29-APR-2013 15:54

Client ID: CV0427A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a Operator: SCC

3 2-Methylnaphthalene



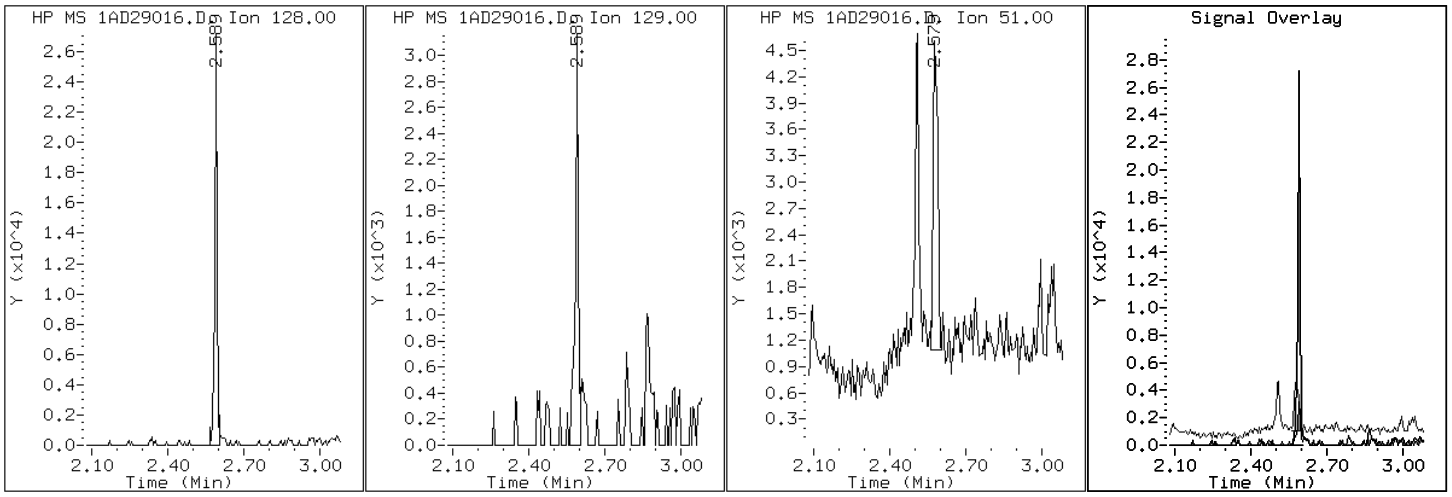
Data File: 1AD29016.D

Date: 29-APR-2013 15:54

Client ID: CV0427A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a Operator: SCC

2 Naphthalene



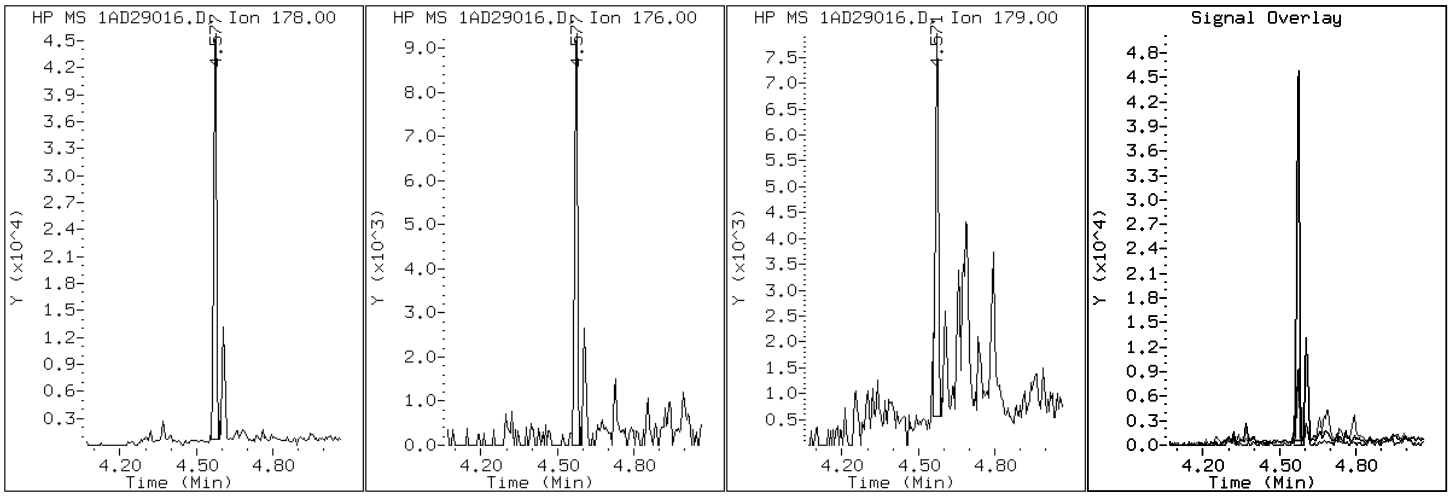
Data File: 1AD29016.D

Date: 29-APR-2013 15:54

Client ID: CV0427A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a Operator: SCC

11 Phenanthrene



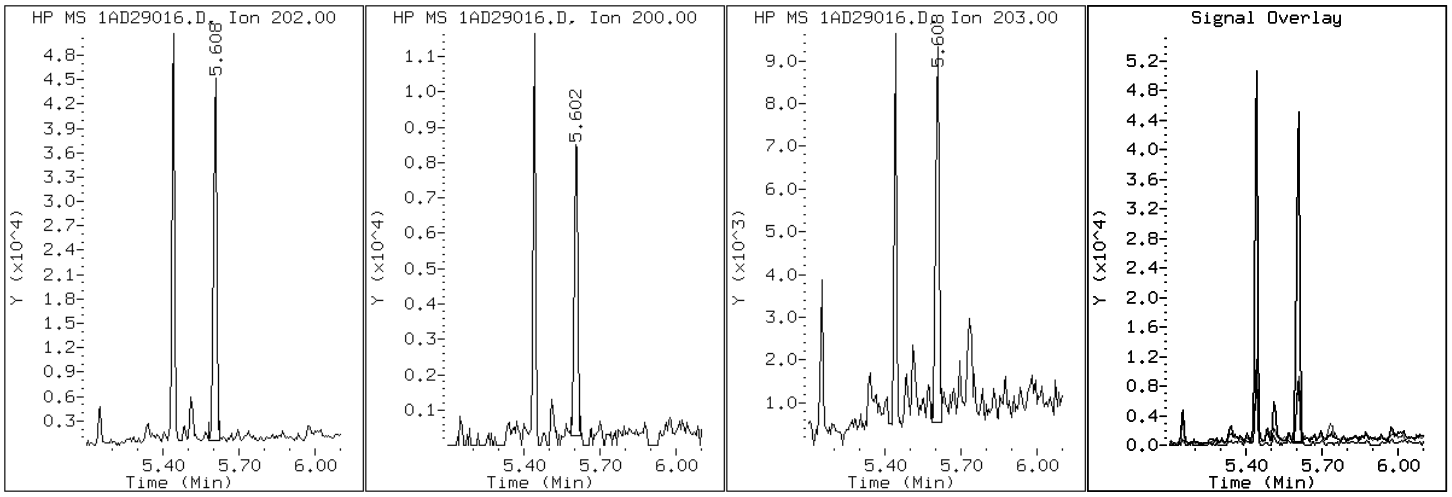
Data File: 1AD29016.D

Date: 29-APR-2013 15:54

Client ID: CV0427A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-13-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD29016.D
Inj. Date and Time: 29-APR-2013 15:54
Instrument ID: BSMA5973.i
Client ID: CV0427A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

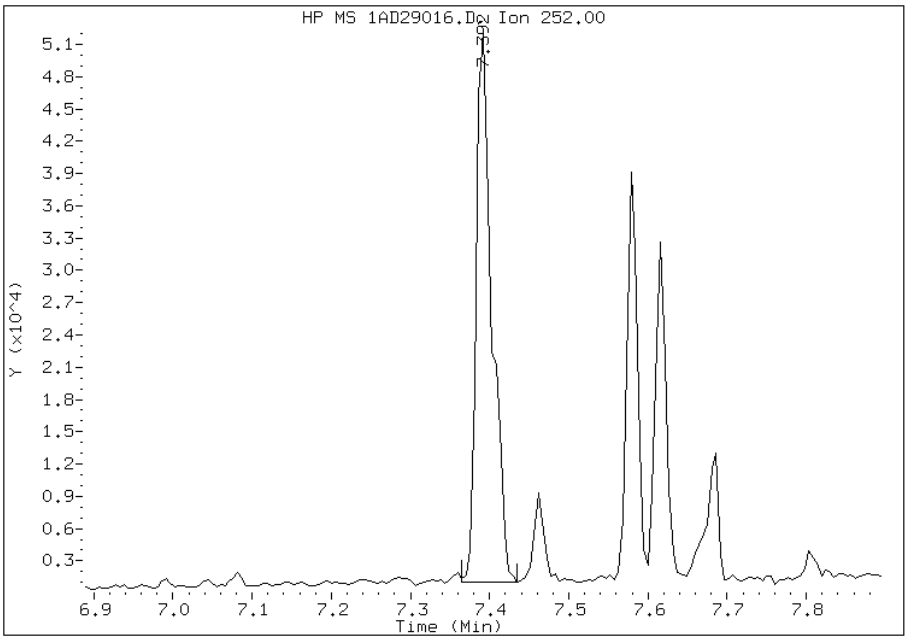
Processing Integration Results

RT: 7.39

Response: 68948

Amount: 1

Conc: 447



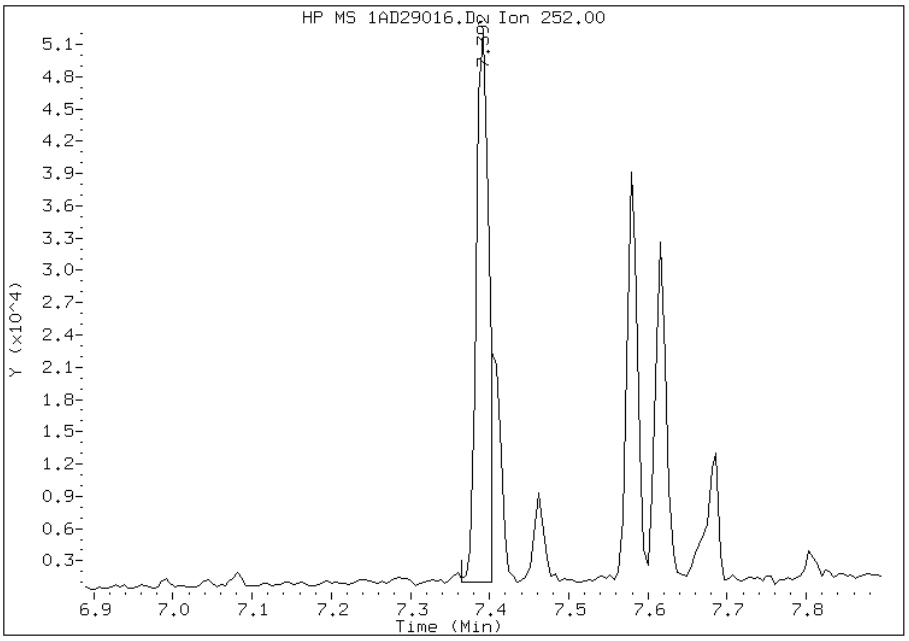
Manual Integration Results

RT: 7.39

Response: 56033

Amount: 1

Conc: 364



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29016.D
Inj. Date and Time: 29-APR-2013 15:54
Instrument ID: BSMA5973.i
Client ID: CV0427A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

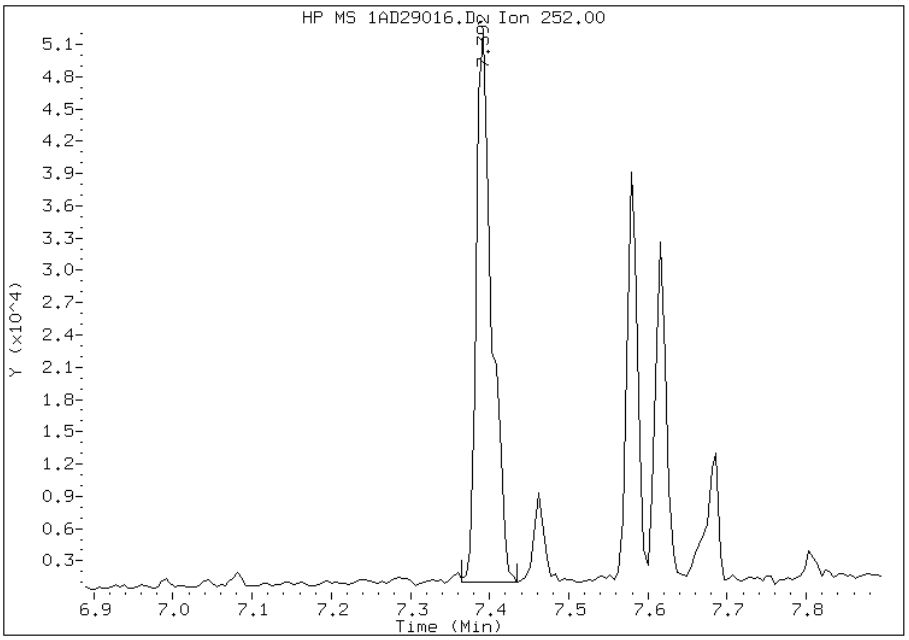
Processing Integration Results

RT: 7.39

Response: 68948

Amount: 1

Conc: 389



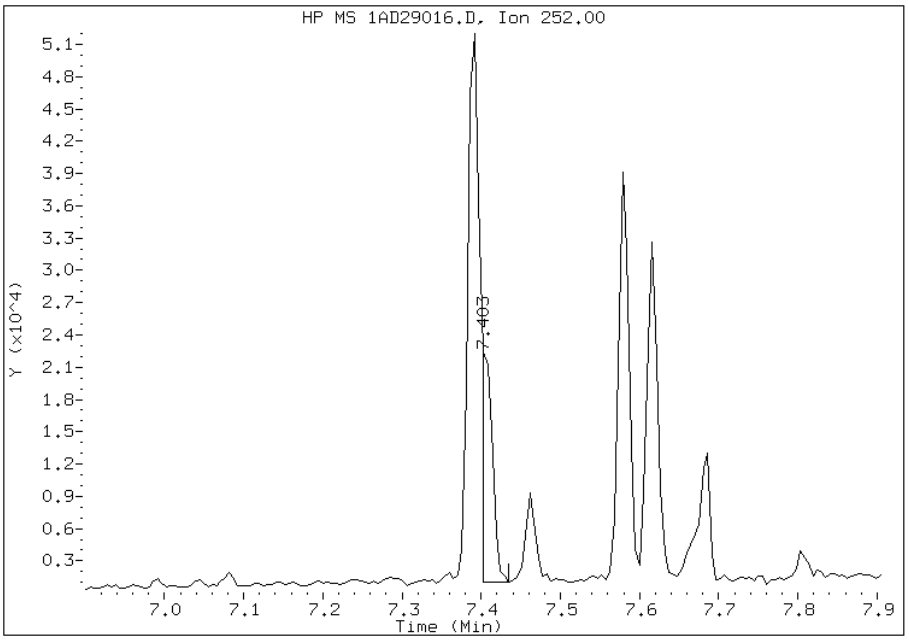
Manual Integration Results

RT: 7.40

Response: 19850

Amount: 0

Conc: 112



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29016.D
Inj. Date and Time: 29-APR-2013 15:54
Instrument ID: BSMA5973.i
Client ID: CV0427A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

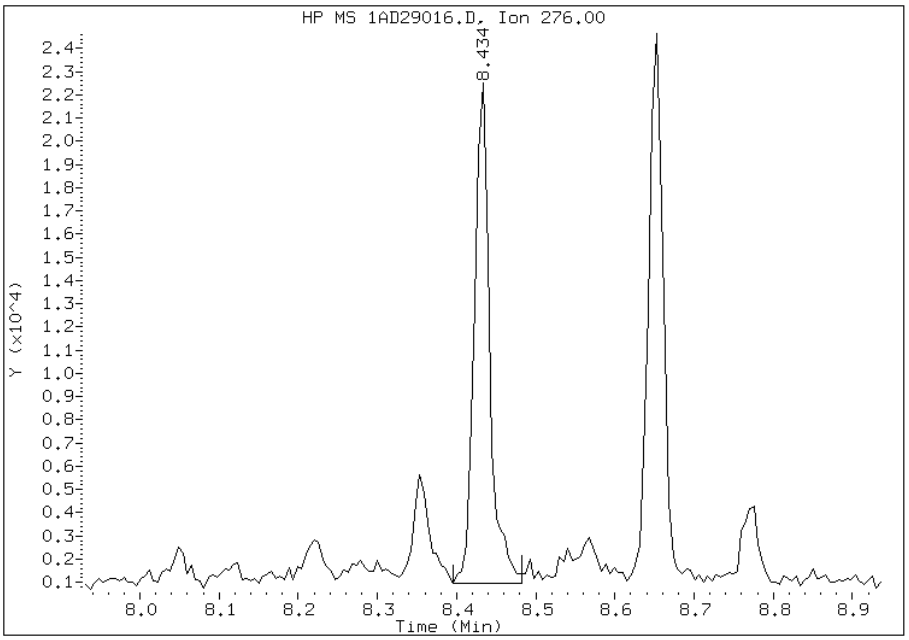
Processing Integration Results

RT: 8.43

Response: 28839

Amount: 1

Conc: 199



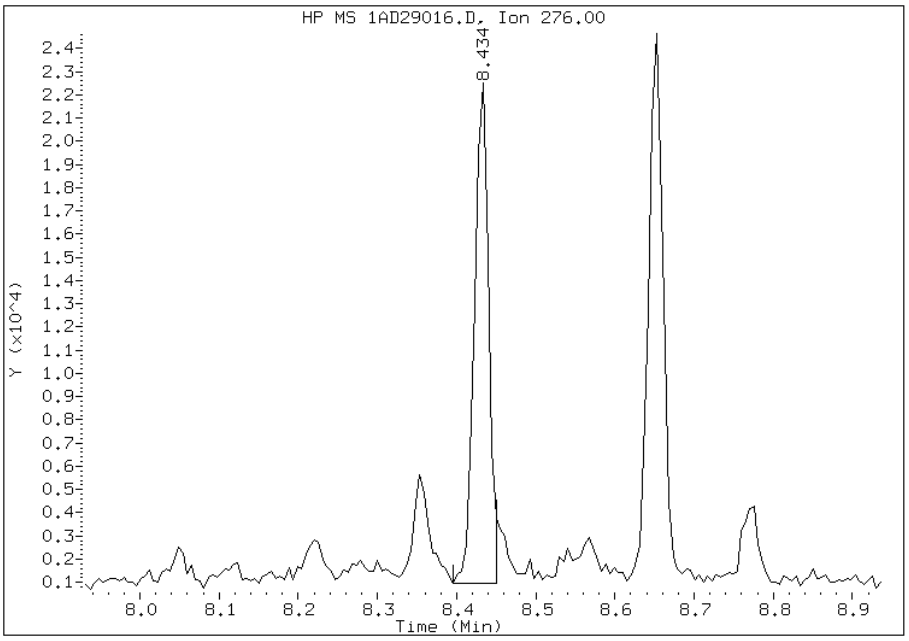
Manual Integration Results

RT: 8.43

Response: 26580

Amount: 1

Conc: 184



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV0427B-CS-SP | Lab Sample ID: 680-89695-14

Matrix: Solid | Lab File ID: 1AD29017.D

Analysis Method: 8270C LL | Date Collected: 04/23/2013 09:03

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 15.03(g) | Date Analyzed: 04/29/2013 16:09

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.: 136961 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	86	J	210	26
120-12-7	Anthracene	130		44	22
56-55-3	Benzo[a]anthracene	350		42	20
50-32-8	Benzo[a]pyrene	350		55	27
205-99-2	Benzo[b]fluoranthene	600		64	32
191-24-2	Benzo[g,h,i]perylene	280		100	23
207-08-9	Benzo[k]fluoranthene	170		42	19
218-01-9	Chrysene	430		47	24
53-70-3	Dibenz(a,h)anthracene	77	J	100	22
206-44-0	Fluoranthene	560		100	21
86-73-7	Fluorene	25	J	100	22
193-39-5	Indeno[1,2,3-cd]pyrene	300		100	37
90-12-0	1-Methylnaphthalene	160	J	210	23
91-57-6	2-Methylnaphthalene	160	J	210	37
91-20-3	Naphthalene	140	J	210	23
85-01-8	Phenanthrene	390		42	20
129-00-0	Pyrene	430		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29017.D
Lab Smp Id: 680-89695-A-14-A Client Smp ID: CV0427B-CS-SP
Inj Date : 29-APR-2013 16:09
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89695-a-14-a
Misc Info : 680-89695-A-14-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 17
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	23.896	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.580	2.572	(1.000)	1690671	40.0000	
* 6 Acenaphthene-d10	164	3.611	3.603	(1.000)	866305	40.0000	
* 10 Phenanthrene-d10	188	4.562	4.554	(1.000)	1334851	40.0000	
$ 14 o-Terphenyl	230	4.861	4.859	(1.066)	27439	1.25674	439.4791
* 18 Chrysene-d12	240	6.587	6.574	(1.000)	1401520	40.0000	
* 23 Perylene-d12	264	7.671	7.663	(1.000)	1773331	40.0000	
2 Naphthalene	128	2.591	2.583	(1.004)	17477	0.41353	144.6087
3 2-Methylnaphthalene	141	2.997	2.989	(1.161)	11391	0.47011	164.3958
4 1-Methylnaphthalene	142	3.050	3.048	(1.182)	12080	0.44998	157.3578
5 Acenaphthylene	152	3.520	3.513	(0.975)	12465	0.24620	86.0957
9 Fluorene	166	3.937	3.935	(1.090)	2298	0.07194	25.1559(Q)
11 Phenanthrene	178	4.573	4.570	(1.002)	42920	1.10996	388.1499
12 Anthracene	178	4.605	4.608	(1.009)	14901	0.37061	129.6019
13 Carbazole	167	4.738	4.736	(1.039)	8330	0.21476	75.1020

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.438	5.436	(1.192)	71340	1.59732	558.5763
16 Pyrene	202	5.604	5.601	(0.851)	66241	1.23887	433.2275
17 Benzo(a)anthracene	228	6.576	6.563	(0.998)	46437	1.01458	354.7960
19 Chrysene	228	6.597	6.595	(1.002)	57360	1.23530	431.9794
20 Benzo(b)fluoranthene	252	7.393	7.380	(0.964)	93094	1.72917	604.6858(M)
21 Benzo(k)fluoranthene	252	7.409	7.407	(0.966)	29365	0.47440	165.8958(QM)
22 Benzo(a)pyrene	252	7.618	7.610	(0.993)	53609	1.00095	350.0278
24 Indeno(1,2,3-cd)pyrene	276	8.430	8.427	(1.099)	43335	0.85693	299.6651(M)
25 Dibenzo(a,h)anthracene	278	8.457	8.454	(1.102)	10338	0.21971	76.8317
26 Benzo(g,h,i)perylene	276	8.649	8.646	(1.127)	45816	0.80950	283.0808

QC Flag Legend

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

Data File: 1AD29017.D

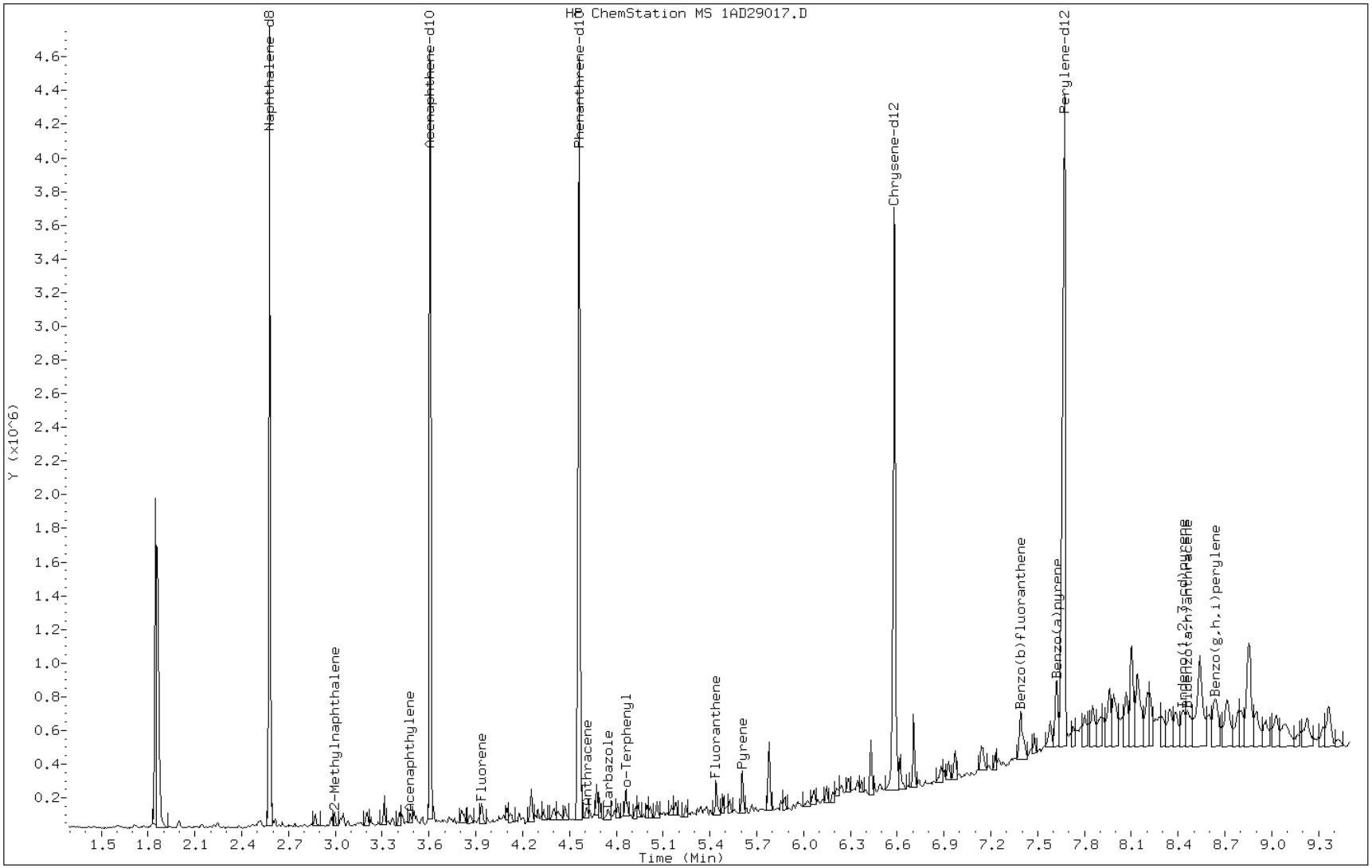
Date: 29-APR-2013 16:09

Client ID: CV0427B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a

Operator: SCC



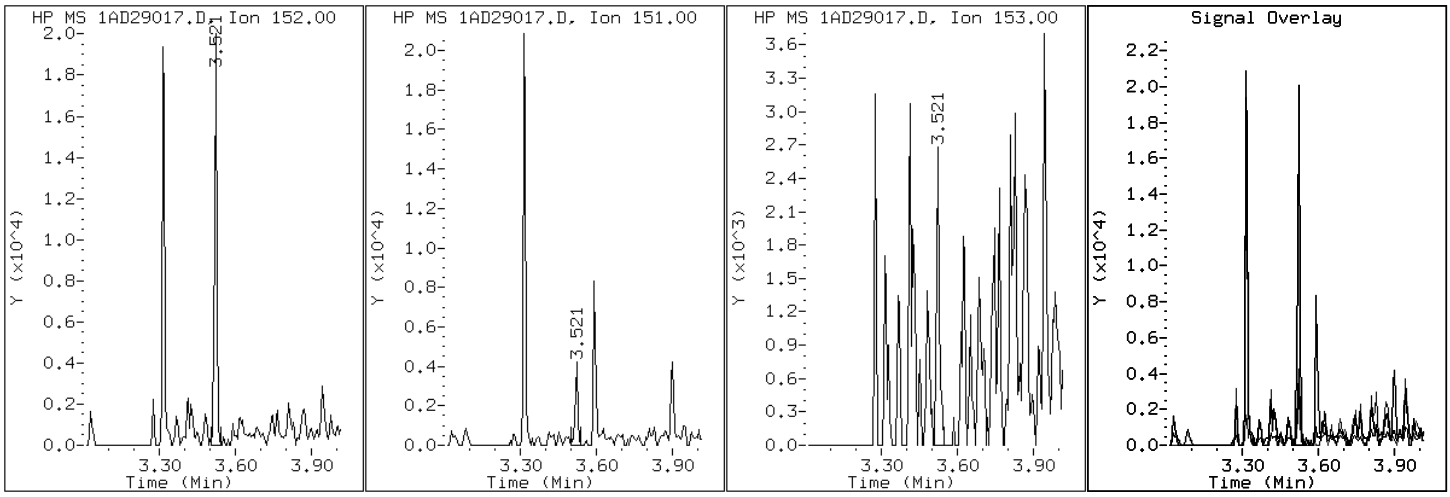
Data File: 1AD29017.D

Date: 29-APR-2013 16:09

Client ID: CV0427B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a Operator: SCC

5 Acenaphthylene



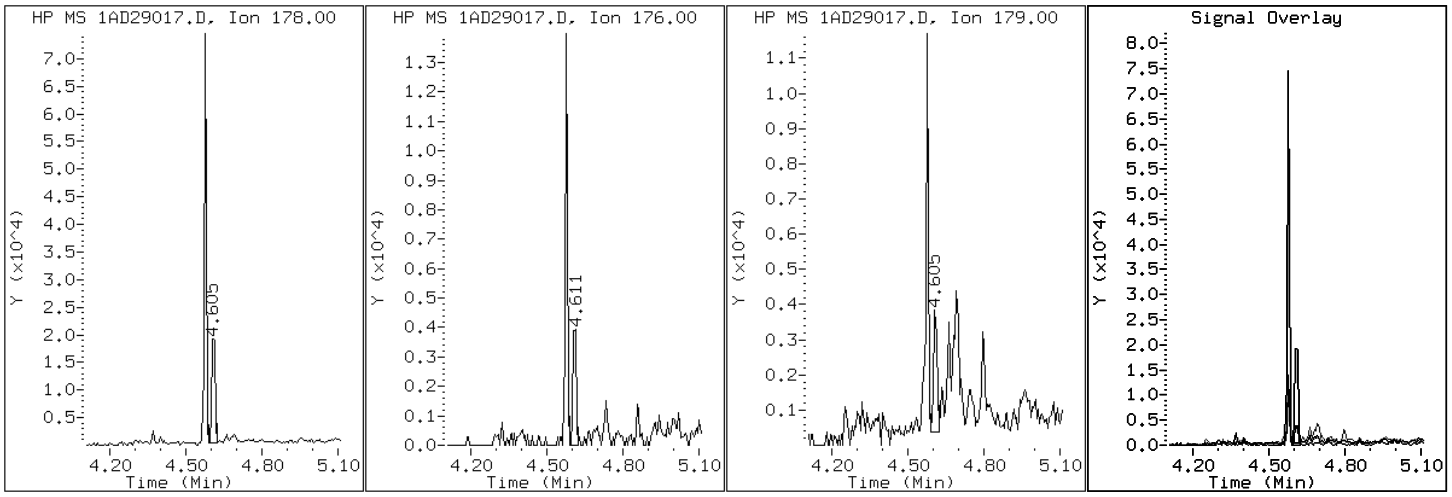
Data File: 1AD29017.D

Date: 29-APR-2013 16:09

Client ID: CV0427B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a Operator: SCC

12 Anthracene



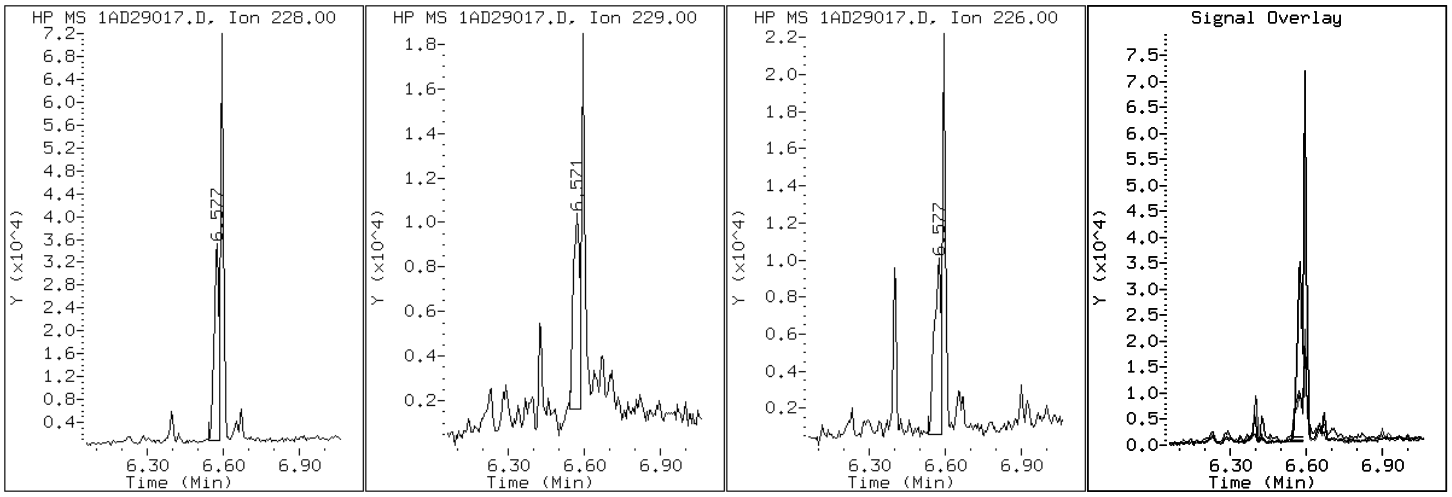
Data File: 1AD29017.D

Date: 29-APR-2013 16:09

Client ID: CV0427B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a Operator: SCC

17 Benzo(a)anthracene



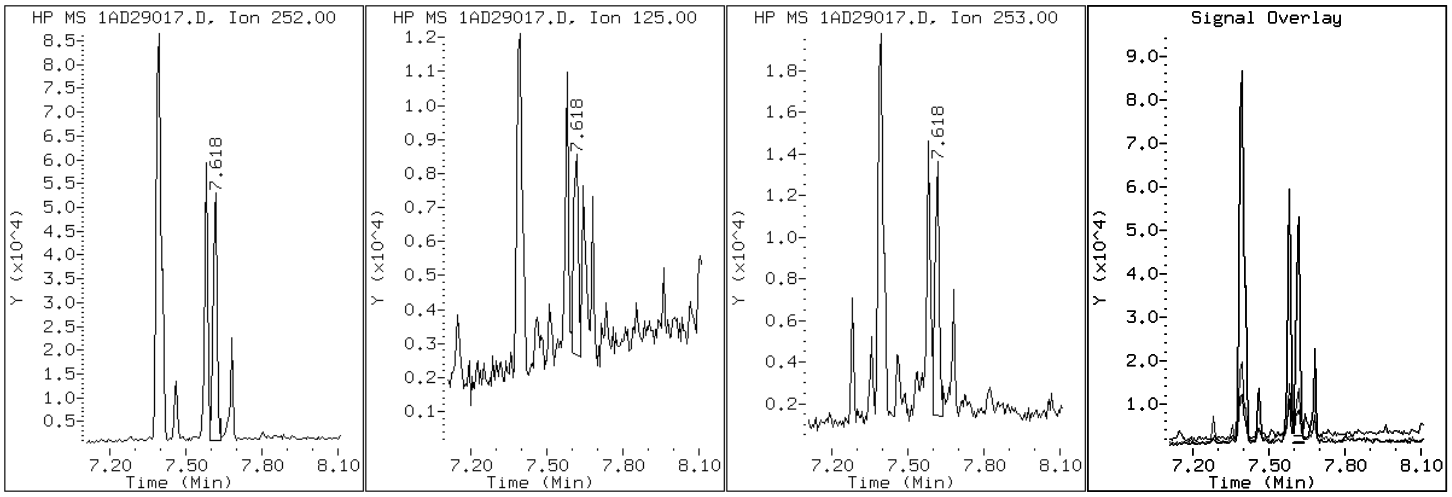
Data File: 1AD29017.D

Date: 29-APR-2013 16:09

Client ID: CV0427B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a Operator: SCC

22 Benzo(a)pyrene



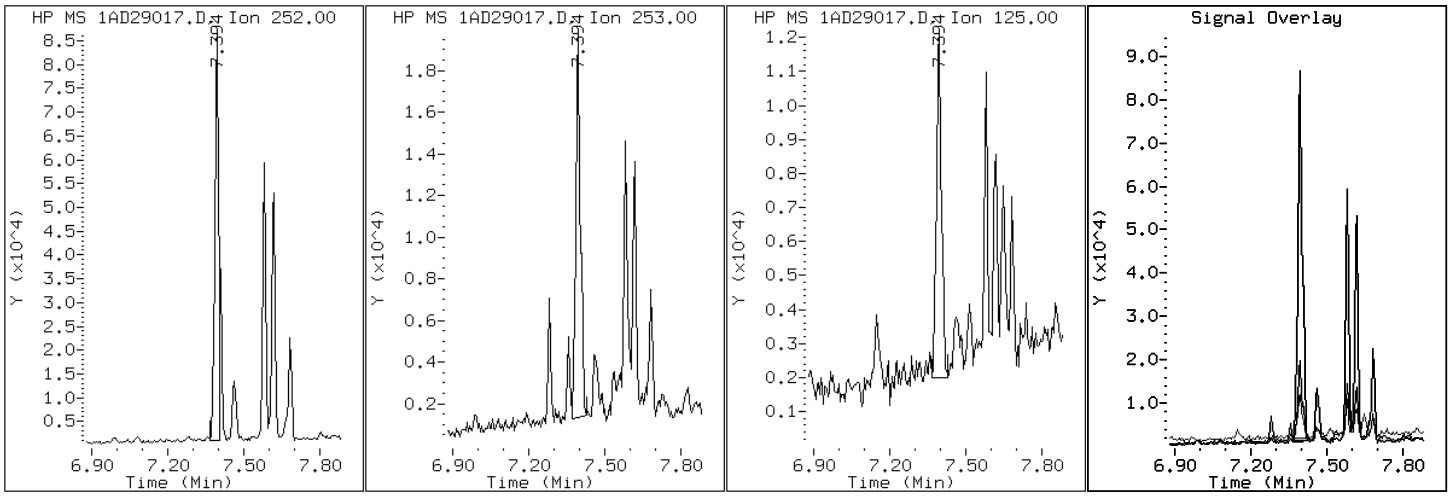
Data File: 1AD29017.D

Date: 29-APR-2013 16:09

Client ID: CV0427B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a Operator: SCC

20 Benzo(b)fluoranthene



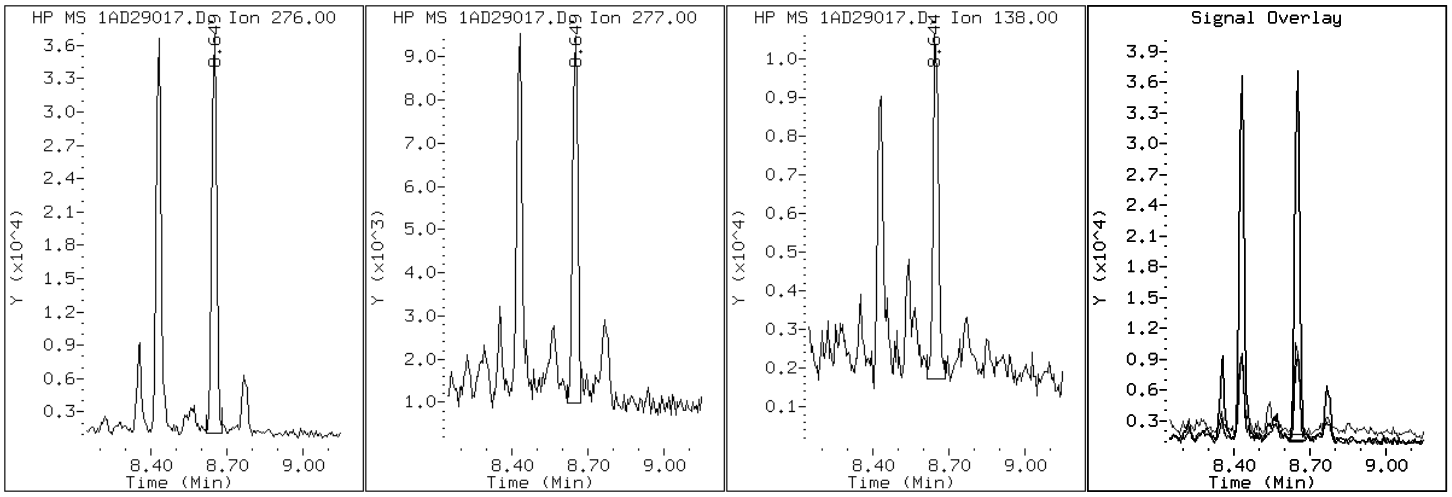
Data File: 1AD29017.D

Date: 29-APR-2013 16:09

Client ID: CV0427B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a Operator: SCC

26 Benzo(g,h,i)perylene



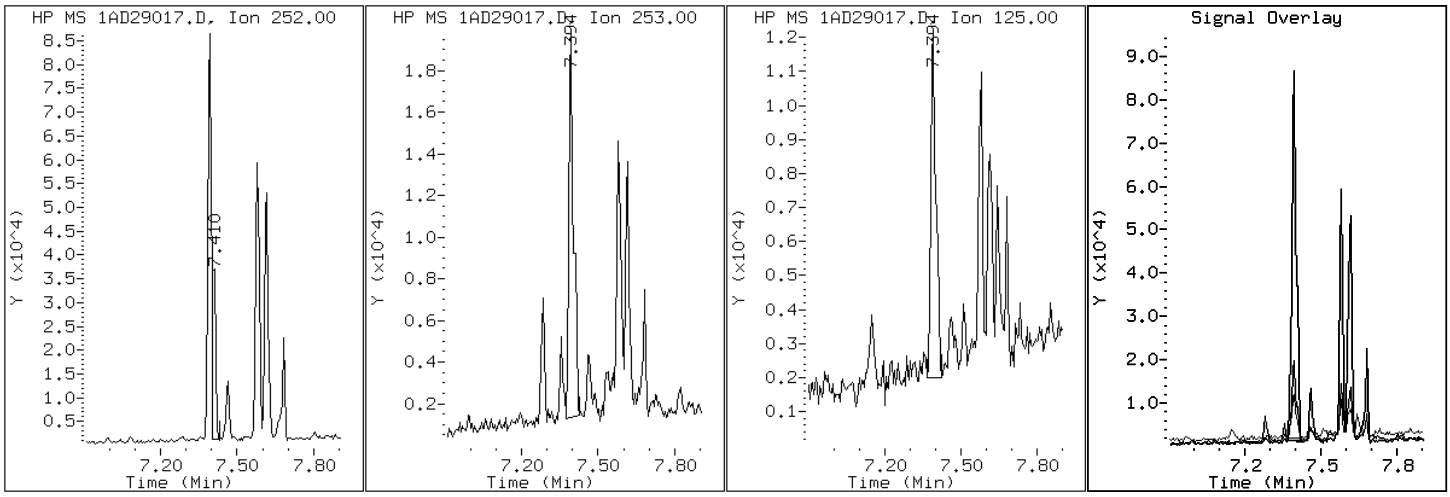
Data File: 1AD29017.D

Date: 29-APR-2013 16:09

Client ID: CV0427B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a Operator: SCC

21 Benzo(k)fluoranthene



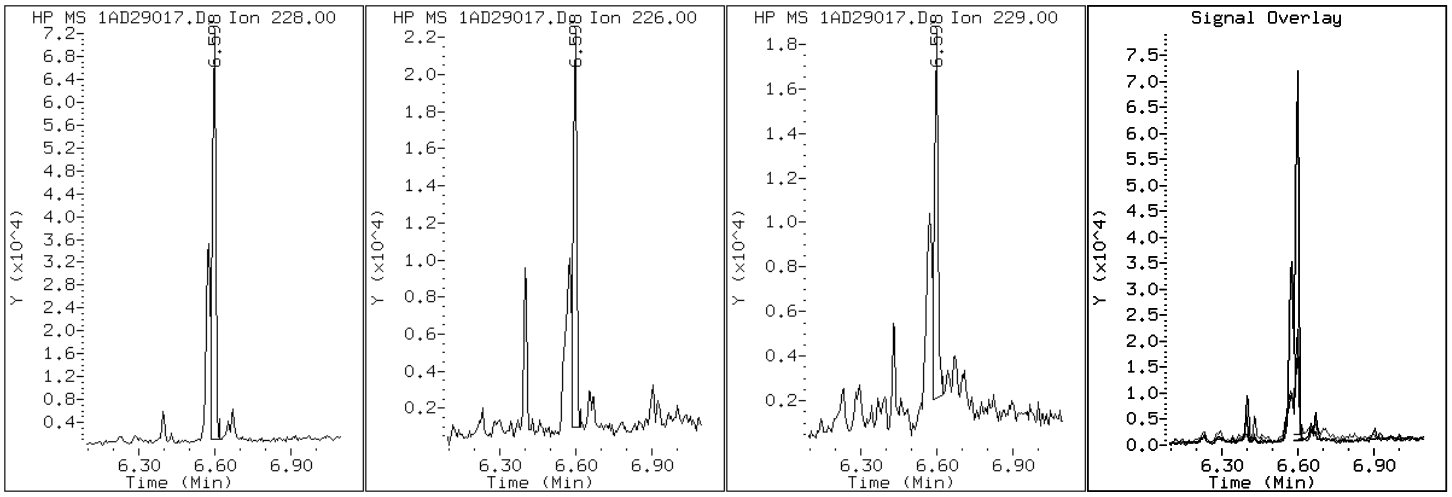
Data File: 1AD29017.D

Date: 29-APR-2013 16:09

Client ID: CV0427B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a Operator: SCC

19 Chrysene



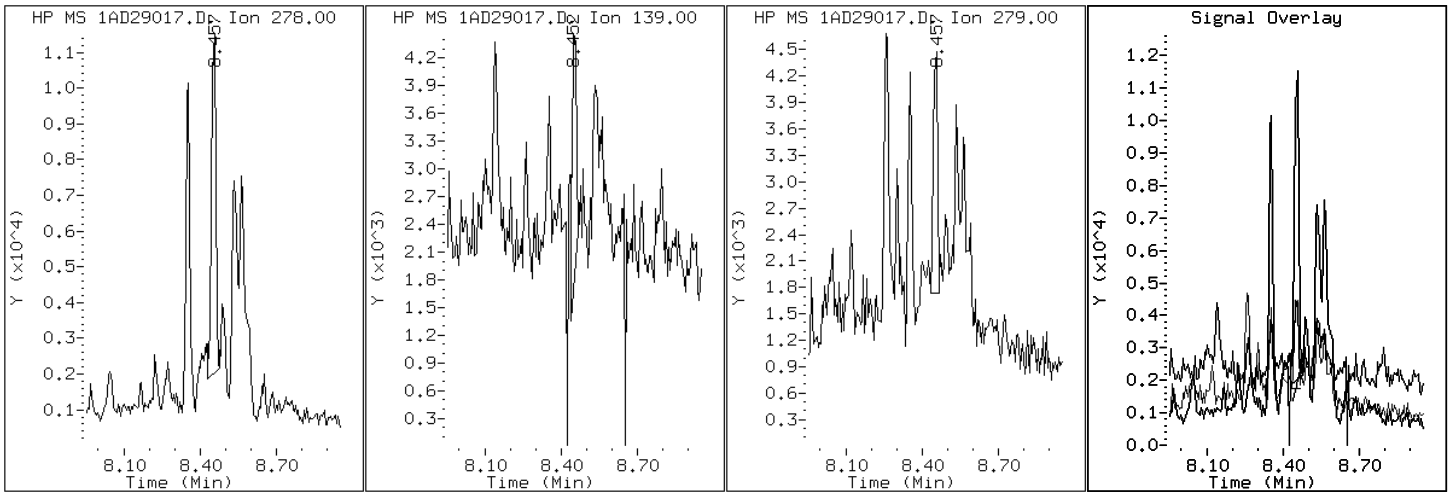
Data File: 1AD29017.D

Date: 29-APR-2013 16:09

Client ID: CV0427B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD29017.D

Date: 29-APR-2013 16:09

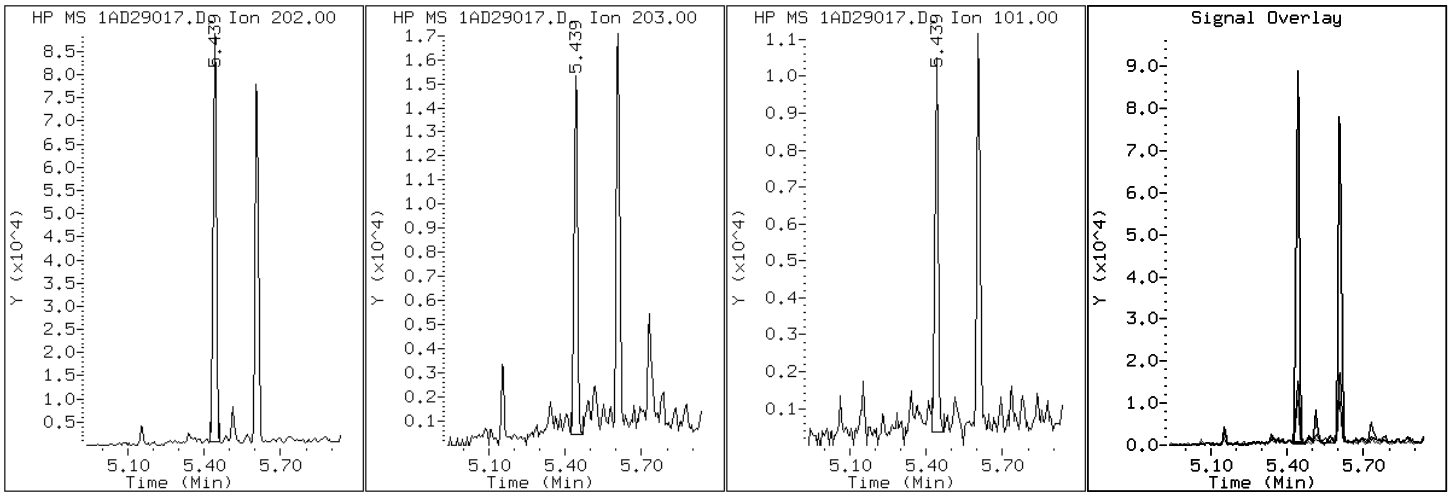
Client ID: CV0427B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a

Operator: SCC

15 Fluoranthene



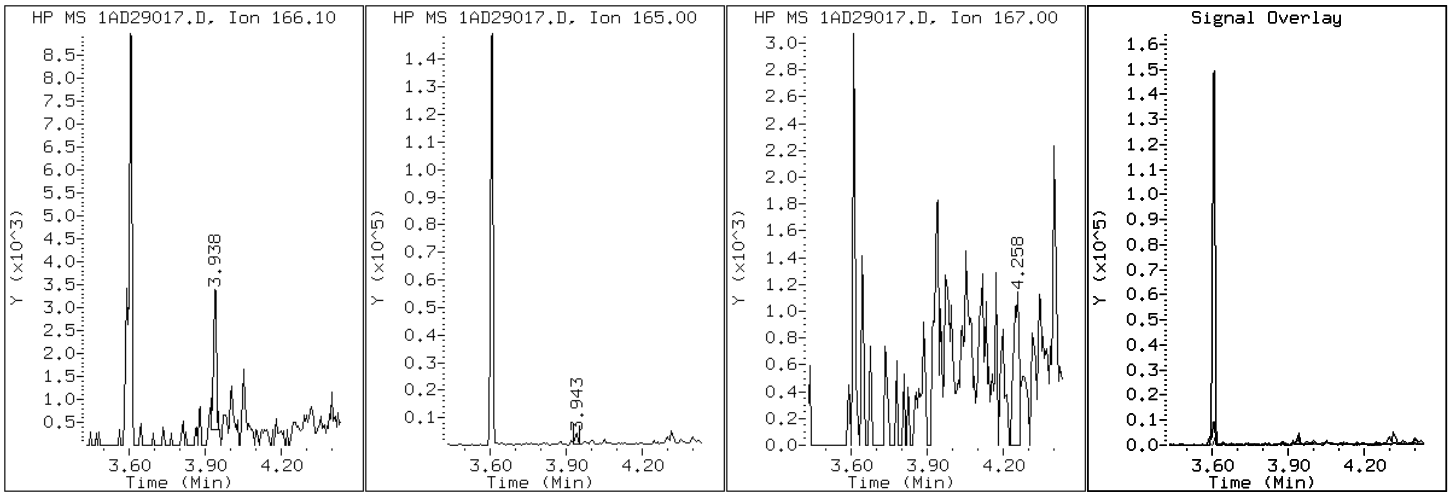
Data File: 1AD29017.D

Date: 29-APR-2013 16:09

Client ID: CV0427B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a Operator: SCC

9 Fluorene



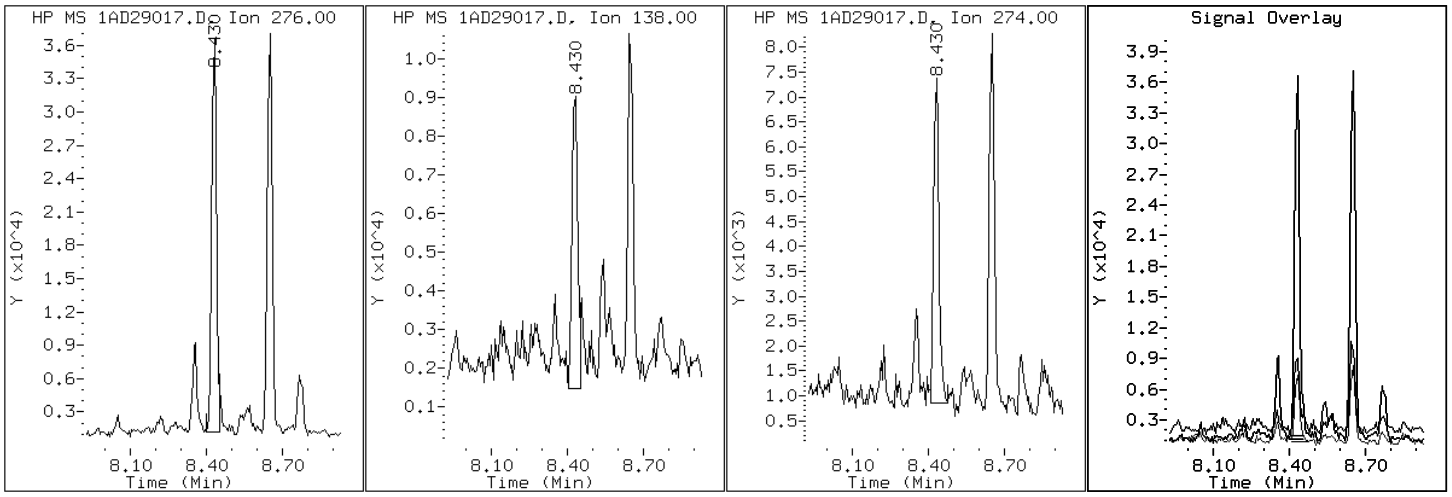
Data File: 1AD29017.D

Date: 29-APR-2013 16:09

Client ID: CV0427B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a Operator: SCC

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



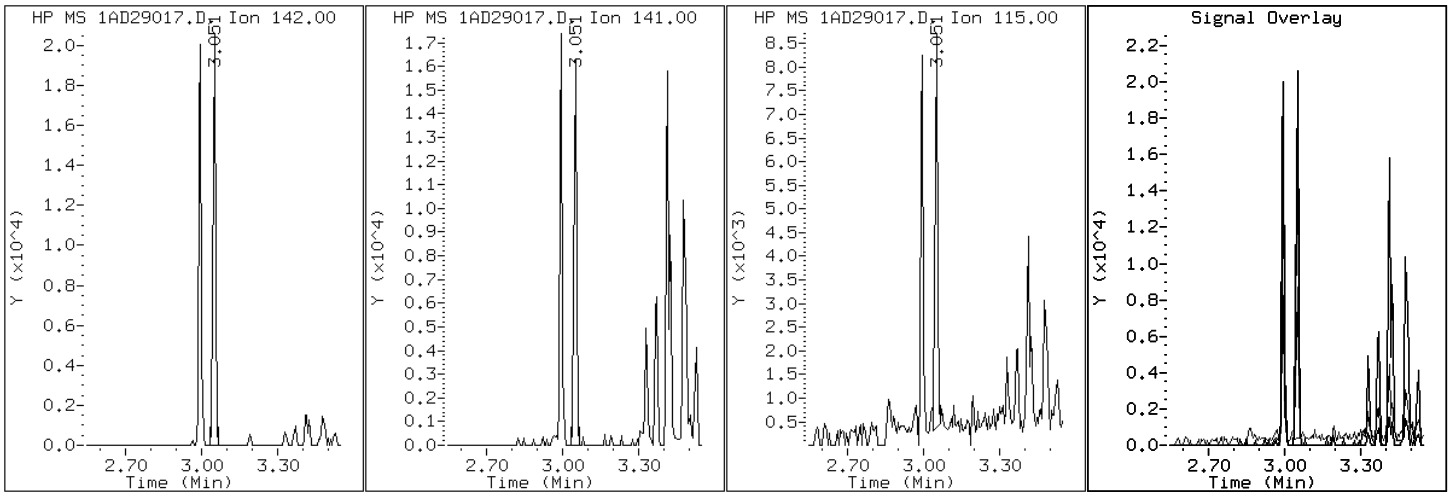
Data File: 1AD29017.D

Date: 29-APR-2013 16:09

Client ID: CV0427B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a Operator: SCC

4 1-Methylnaphthalene



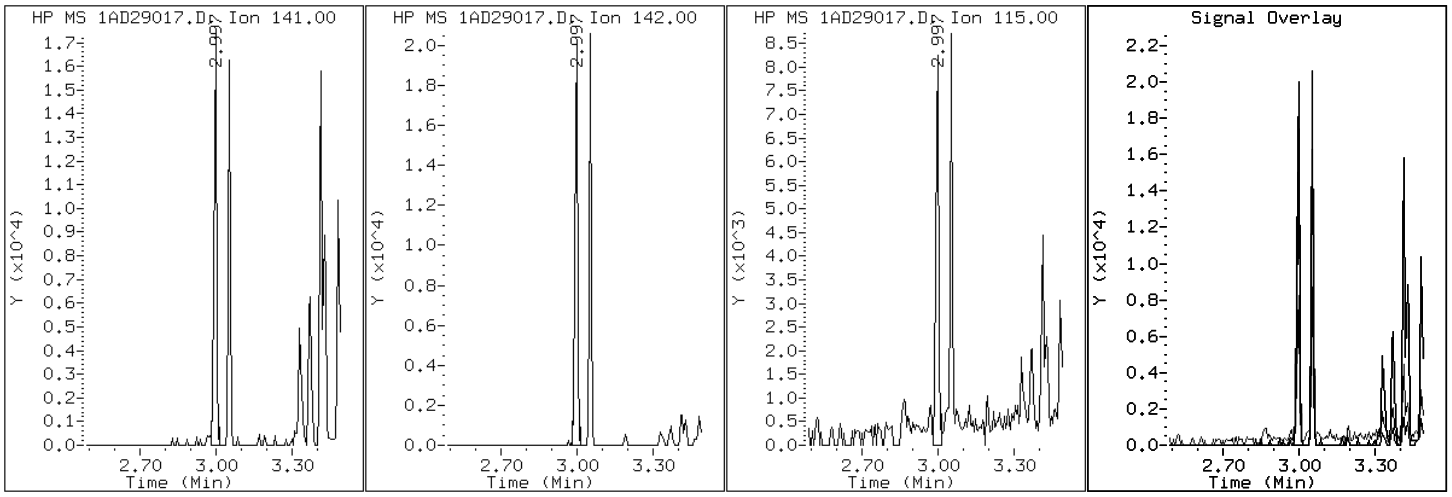
Data File: 1AD29017.D

Date: 29-APR-2013 16:09

Client ID: CV0427B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a Operator: SCC

3 2-Methylnaphthalene



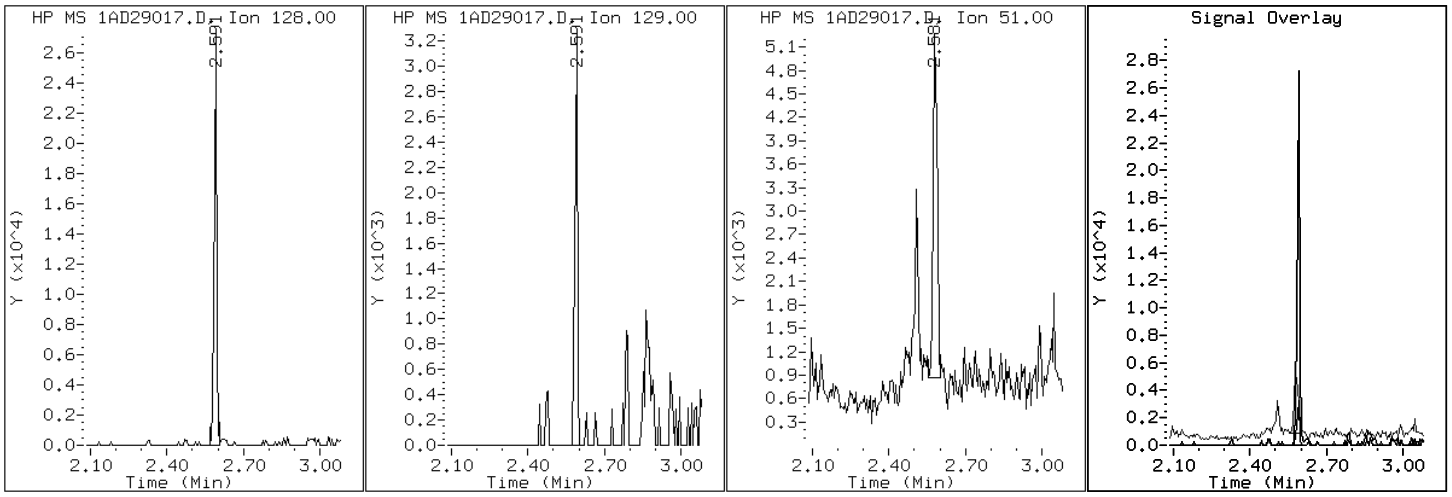
Data File: 1AD29017.D

Date: 29-APR-2013 16:09

Client ID: CV0427B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a Operator: SCC

2 Naphthalene



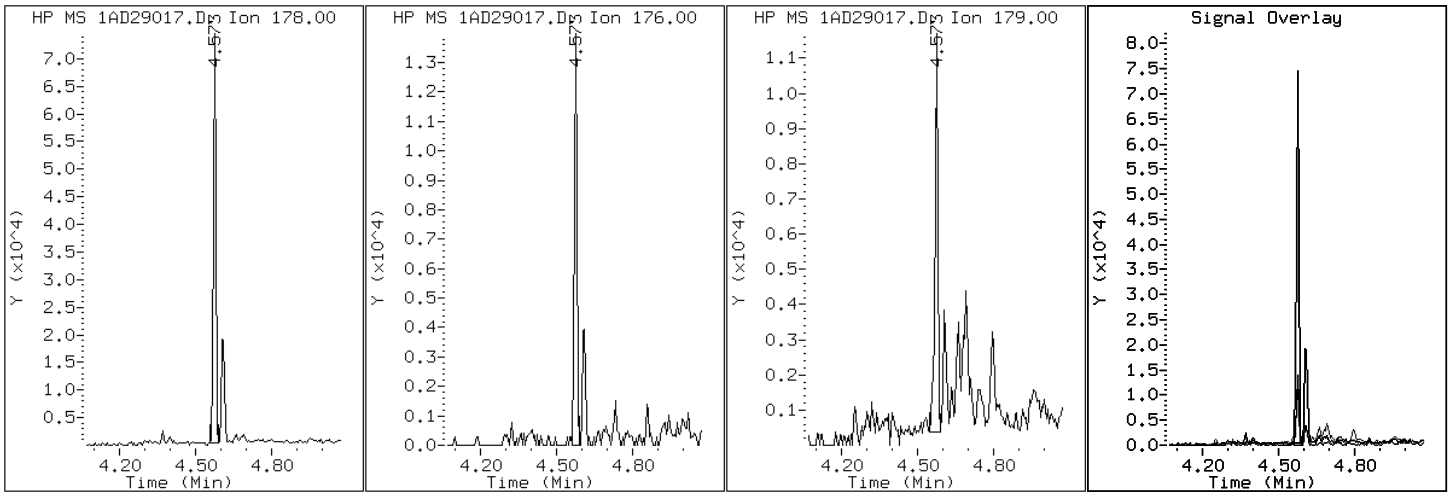
Data File: 1AD29017.D

Date: 29-APR-2013 16:09

Client ID: CV0427B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a Operator: SCC

11 Phenanthrene



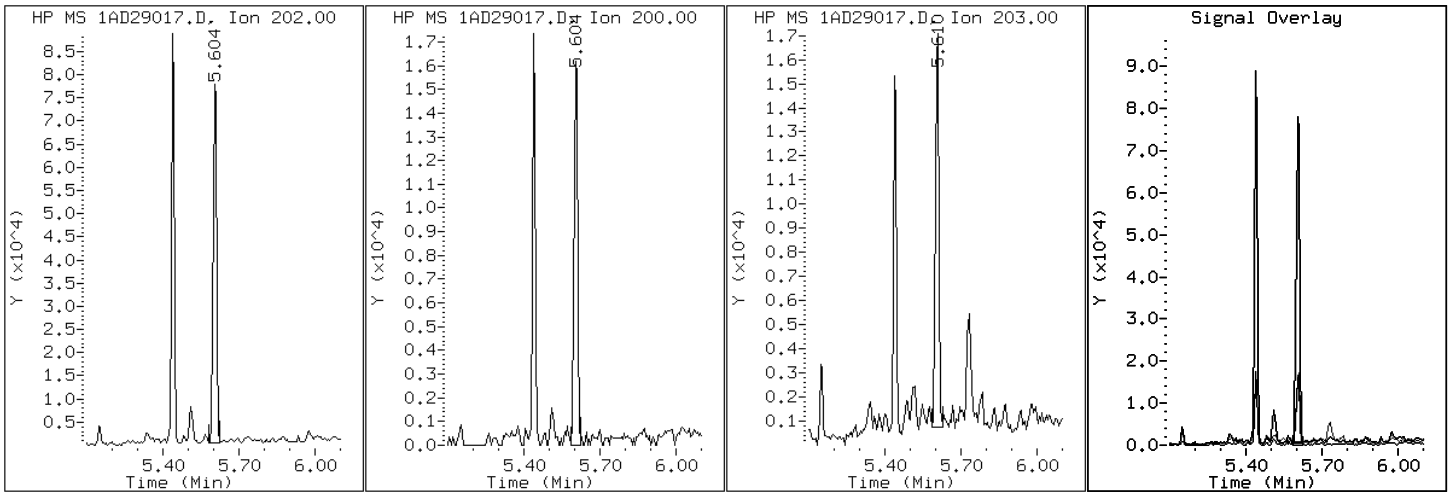
Data File: 1AD29017.D

Date: 29-APR-2013 16:09

Client ID: CV0427B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-14-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD29017.D
Inj. Date and Time: 29-APR-2013 16:09
Instrument ID: BSMA5973.i
Client ID: CV0427B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

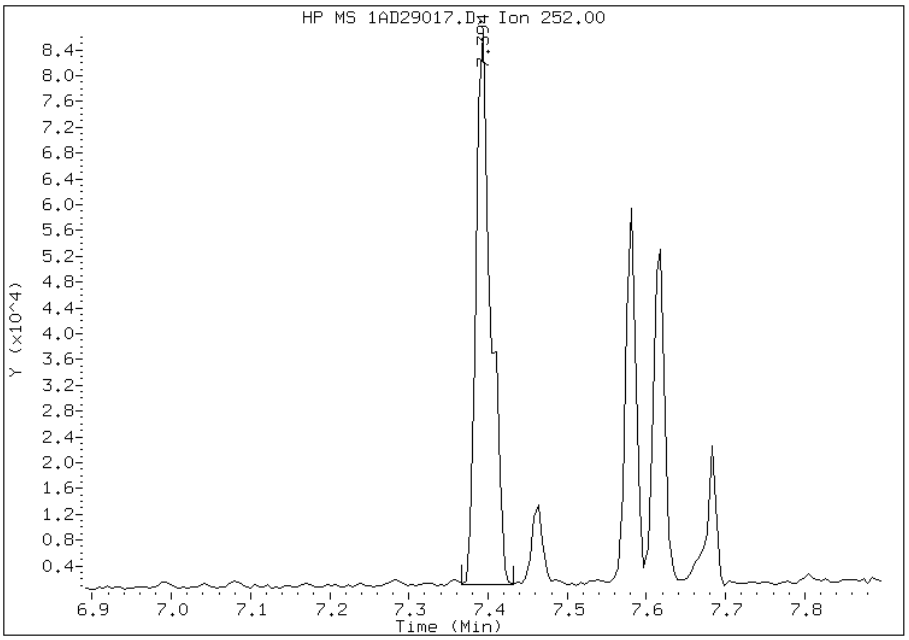
Processing Integration Results

RT: 7.39

Response: 111029

Amount: 2

Conc: 721



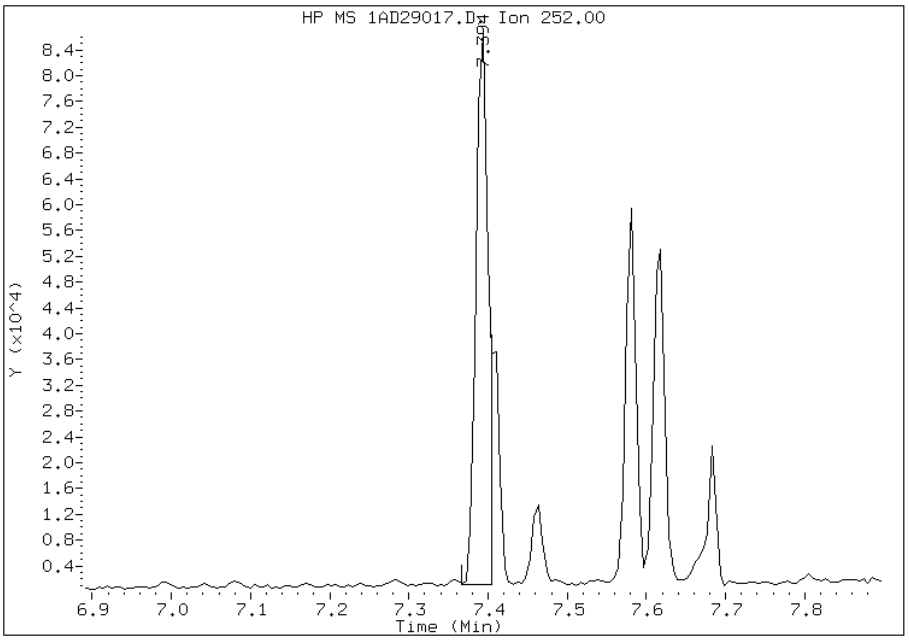
Manual Integration Results

RT: 7.39

Response: 93094

Amount: 2

Conc: 605



Manually Integrated By: cantins
Modification Date: 01-May-2013 16:02
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29017.D
Inj. Date and Time: 29-APR-2013 16:09
Instrument ID: BSMA5973.i
Client ID: CV0427B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

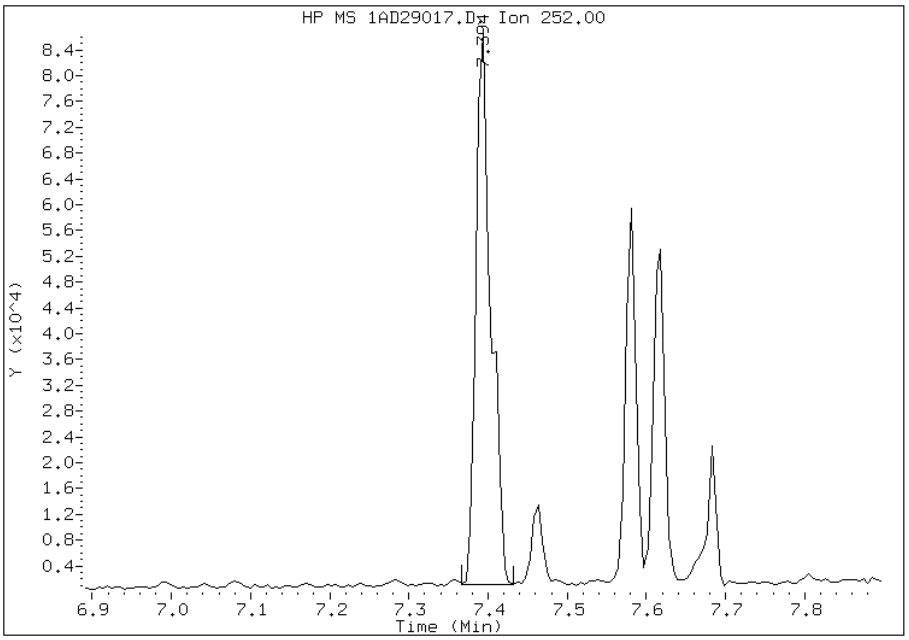
Processing Integration Results

RT: 7.39

Response: 111029

Amount: 2

Conc: 627



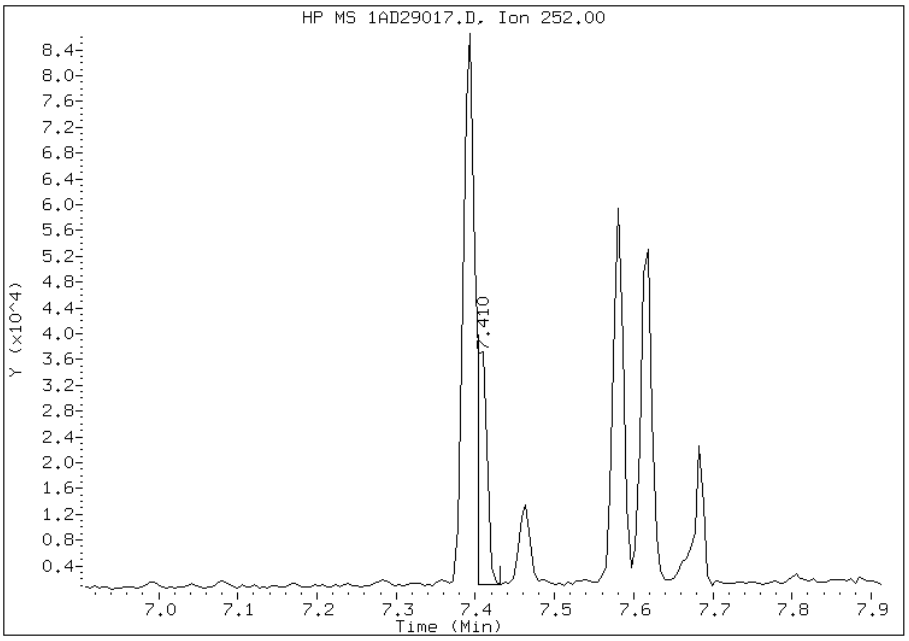
Manual Integration Results

RT: 7.41

Response: 29365

Amount: 0

Conc: 166



Manually Integrated By: cantins
Modification Date: 01-May-2013 16:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29017.D
Inj. Date and Time: 29-APR-2013 16:09
Instrument ID: BSMA5973.i
Client ID: CV0427B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

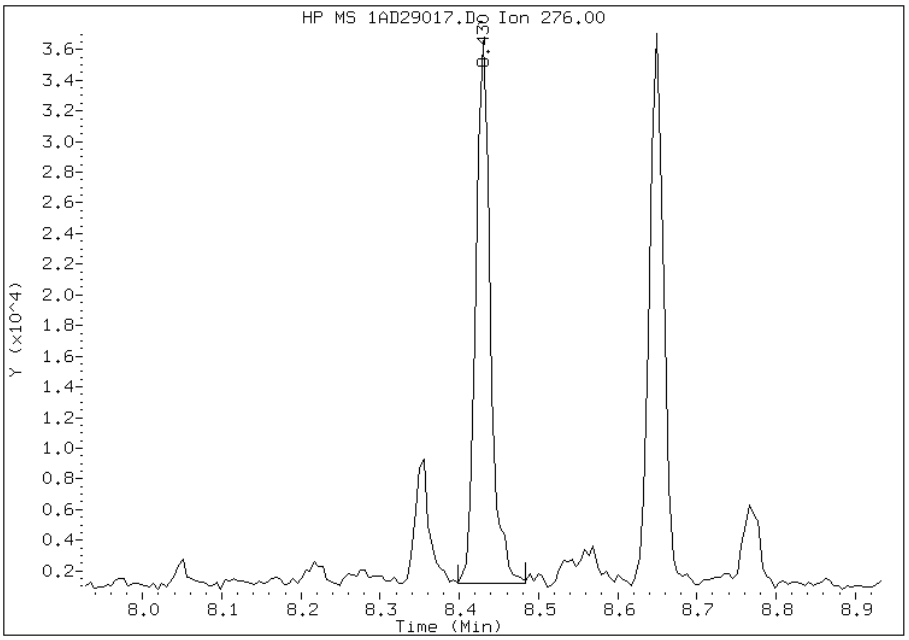
Processing Integration Results

RT: 8.43

Response: 45253

Amount: 1

Conc: 313



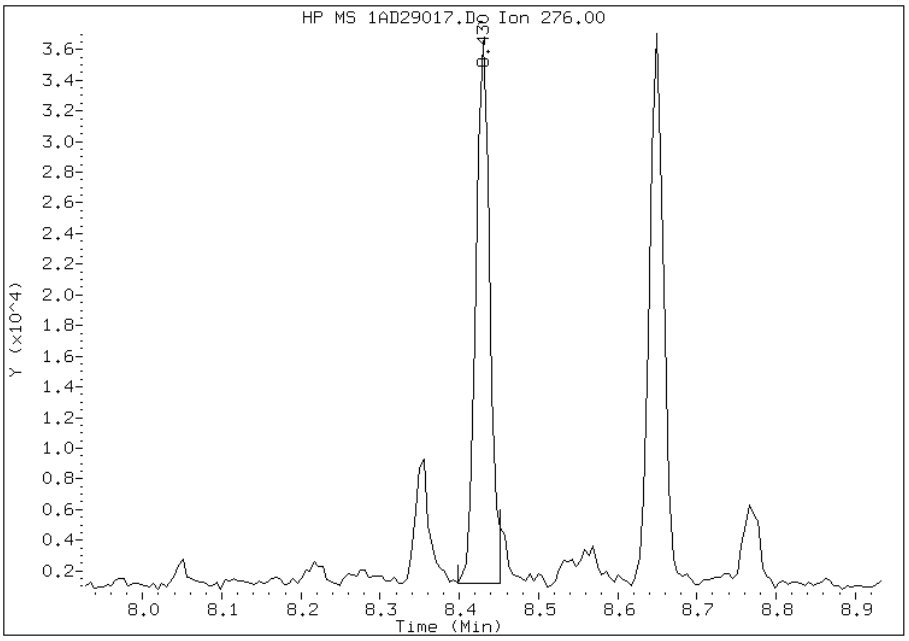
Manual Integration Results

RT: 8.43

Response: 43335

Amount: 1

Conc: 300



Manually Integrated By: cantins
Modification Date: 01-May-2013 16:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV0718A-CS-SP | Lab Sample ID: 680-89695-15

Matrix: Solid | Lab File ID: 1AD29018.D

Analysis Method: 8270C LL | Date Collected: 04/23/2013 09:31

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 15.01(g) | Date Analyzed: 04/29/2013 16:24

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

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

% Moisture: 19.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136961 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	99
208-96-8	Acenaphthylene	66	J	200	25
120-12-7	Anthracene	80		42	21
56-55-3	Benzo[a]anthracene	150		40	19
50-32-8	Benzo[a]pyrene	120		51	26
205-99-2	Benzo[b]fluoranthene	190		60	30
191-24-2	Benzo[g,h,i]perylene	110		99	22
207-08-9	Benzo[k]fluoranthene	70		40	18
218-01-9	Chrysene	190		44	22
53-70-3	Dibenz(a,h)anthracene	31	J	99	20
206-44-0	Fluoranthene	190		99	20
86-73-7	Fluorene	44	J	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	95	J	99	35
90-12-0	1-Methylnaphthalene	210		200	22
91-57-6	2-Methylnaphthalene	320		200	35
91-20-3	Naphthalene	500		200	22
85-01-8	Phenanthrene	540		40	19
129-00-0	Pyrene	240		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	59		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29018.D
Lab Smp Id: 680-89695-A-15-A Client Smp ID: CV0718A-CS-SP
Inj Date : 29-APR-2013 16:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89695-a-15-a
Misc Info : 680-89695-A-15-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.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	15.010	Weight Extracted
M	19.145	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.576	2.572	(1.000)	1816739	40.0000	
* 6 Acenaphthene-d10	164	3.607	3.603	(1.000)	919270	40.0000	
* 10 Phenanthrene-d10	188	4.563	4.554	(1.000)	1459782	40.0000	
$ 14 o-Terphenyl	230	4.857	4.859	(1.064)	34935	1.46313	482.2304
* 18 Chrysene-d12	240	6.583	6.574	(1.000)	1465976	40.0000	
* 23 Perylene-d12	264	7.678	7.663	(1.000)	1794235	40.0000	
2 Naphthalene	128	2.587	2.583	(1.004)	68346	1.50493	496.0054
3 2-Methylnaphthalene	141	2.993	2.989	(1.162)	25212	0.96830	319.1405
4 1-Methylnaphthalene	142	3.052	3.048	(1.185)	18266	0.63320	208.6943
5 Acenaphthylene	152	3.516	3.513	(0.975)	10794	0.20091	66.2184
9 Fluorene	166	3.938	3.935	(1.092)	4486	0.13234	43.6171
11 Phenanthrene	178	4.574	4.570	(1.002)	69878	1.65247	544.6333
12 Anthracene	178	4.606	4.608	(1.009)	10609	0.24128	79.5233
15 Fluoranthene	202	5.440	5.436	(1.192)	28475	0.58300	192.1485

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.605	5.601	(0.852)	40155	0.71798	236.6357
17 Benzo(a)anthracene	228	6.577	6.563	(0.999)	21946	0.45841	151.0850
19 Chrysene	228	6.599	6.595	(1.002)	27412	0.56439	186.0142
20 Benzo(b)fluoranthene	252	7.389	7.380	(0.962)	30951	0.56820	187.2718(M)
21 Benzo(k)fluoranthene	252	7.400	7.407	(0.964)	13281	0.21206	69.8917(QM)
22 Benzo(a)pyrene	252	7.619	7.610	(0.992)	19350	0.35708	117.6889
24 Indeno(1,2,3-cd)pyrene	276	8.431	8.427	(1.098)	14739	0.28806	94.9412(M)
25 Dibenzo(a,h)anthracene	278	8.458	8.454	(1.102)	4518	0.09490	31.2780(Q)
26 Benzo(g,h,i)perylene	276	8.650	8.646	(1.127)	18506	0.32317	106.5112

QC Flag Legend

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

Data File: 1AD29018.D

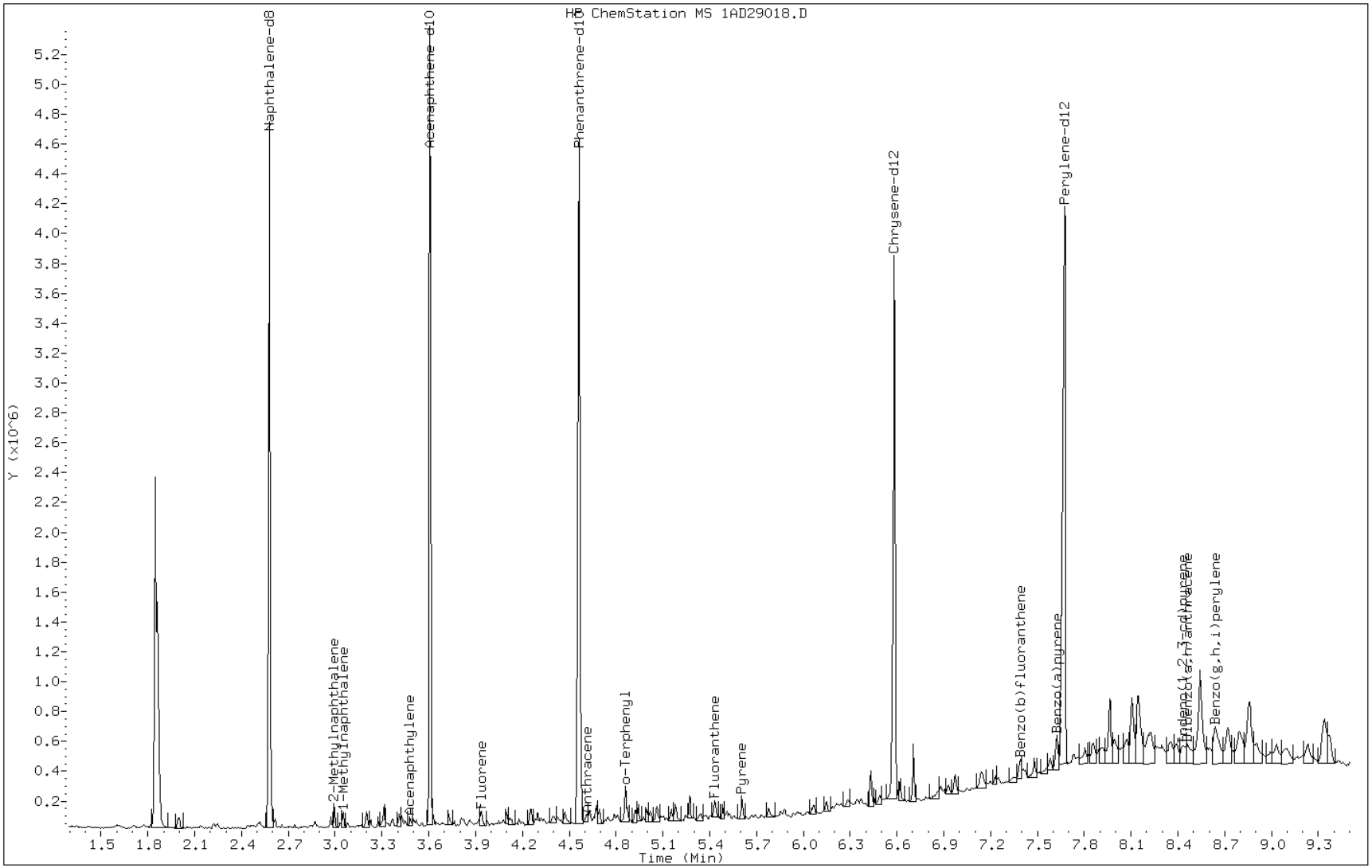
Date: 29-APR-2013 16:24

Client ID: CV0718A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a

Operator: SCC



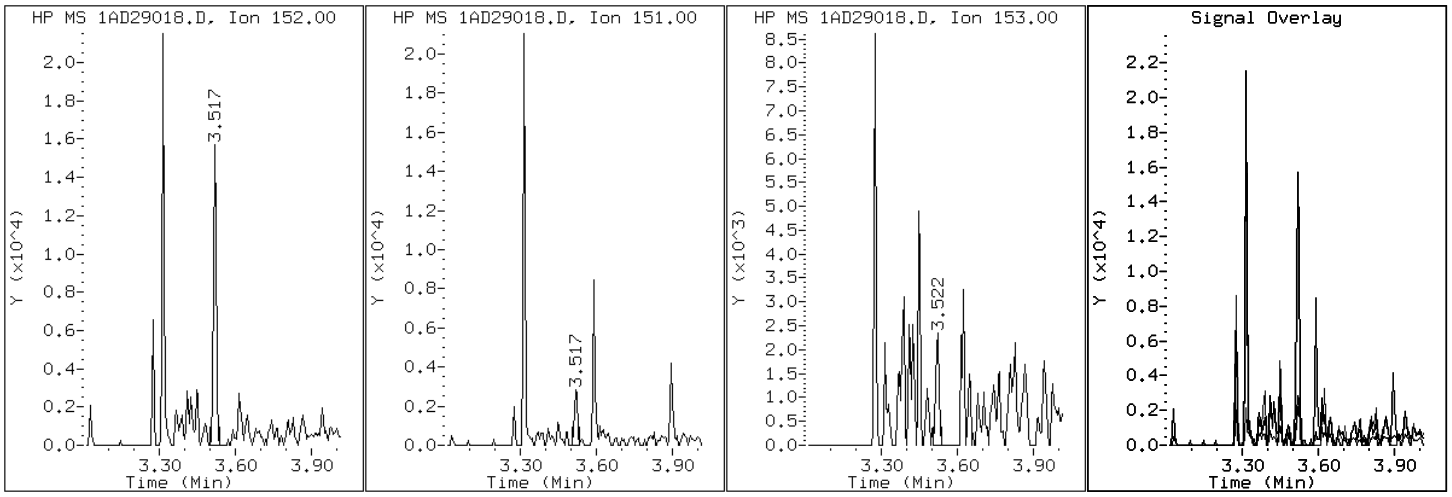
Data File: 1AD29018.D

Date: 29-APR-2013 16:24

Client ID: CV0718A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a Operator: SCC

5 Acenaphthylene



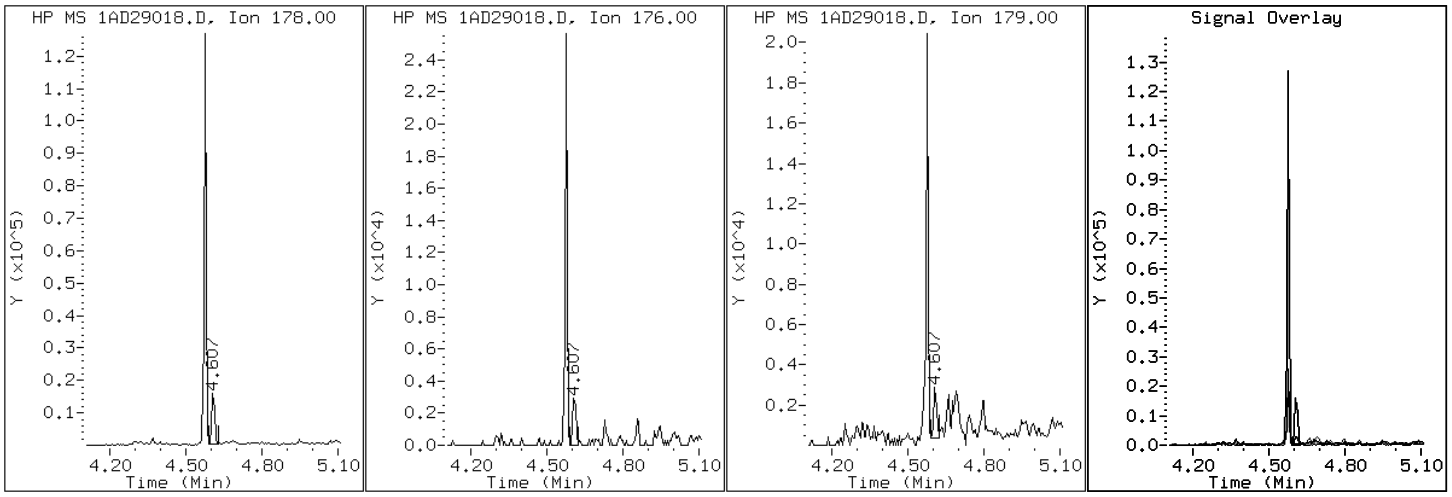
Data File: 1AD29018.D

Date: 29-APR-2013 16:24

Client ID: CV0718A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a Operator: SCC

12 Anthracene



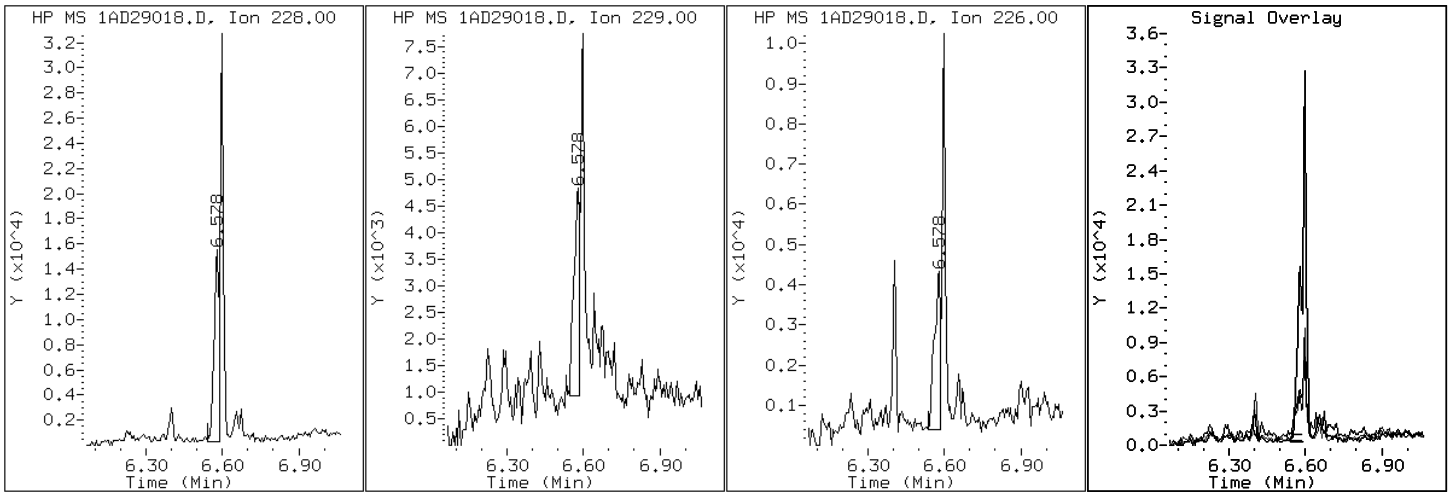
Data File: 1AD29018.D

Date: 29-APR-2013 16:24

Client ID: CV0718A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a Operator: SCC

17 Benzo(a)anthracene



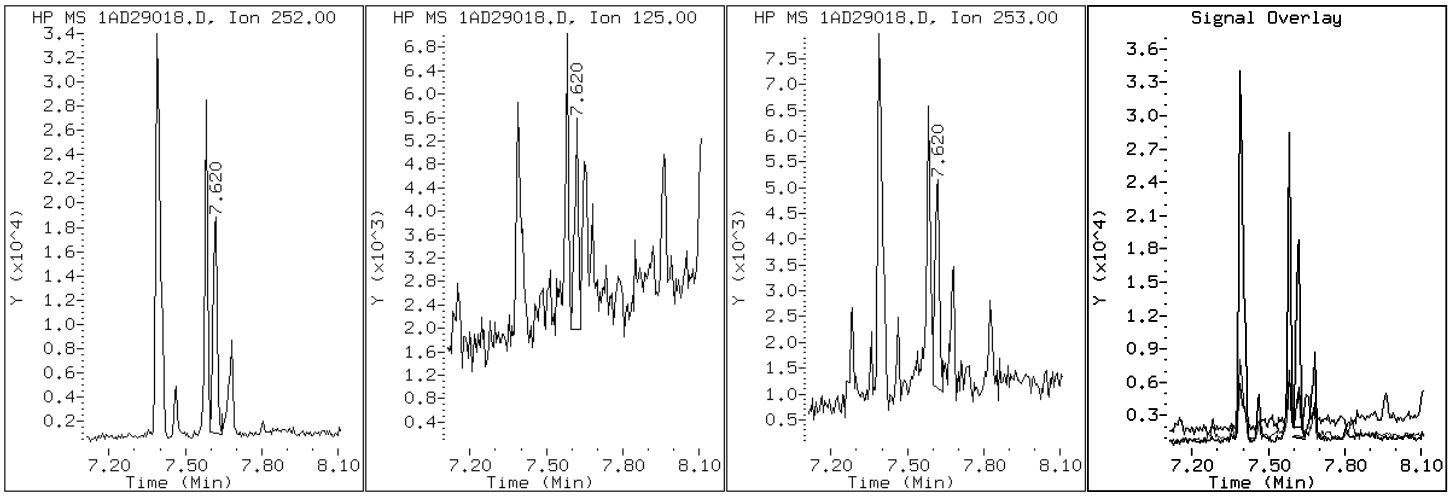
Data File: 1AD29018.D

Date: 29-APR-2013 16:24

Client ID: CV0718A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a Operator: SCC

22 Benzo(a)pyrene



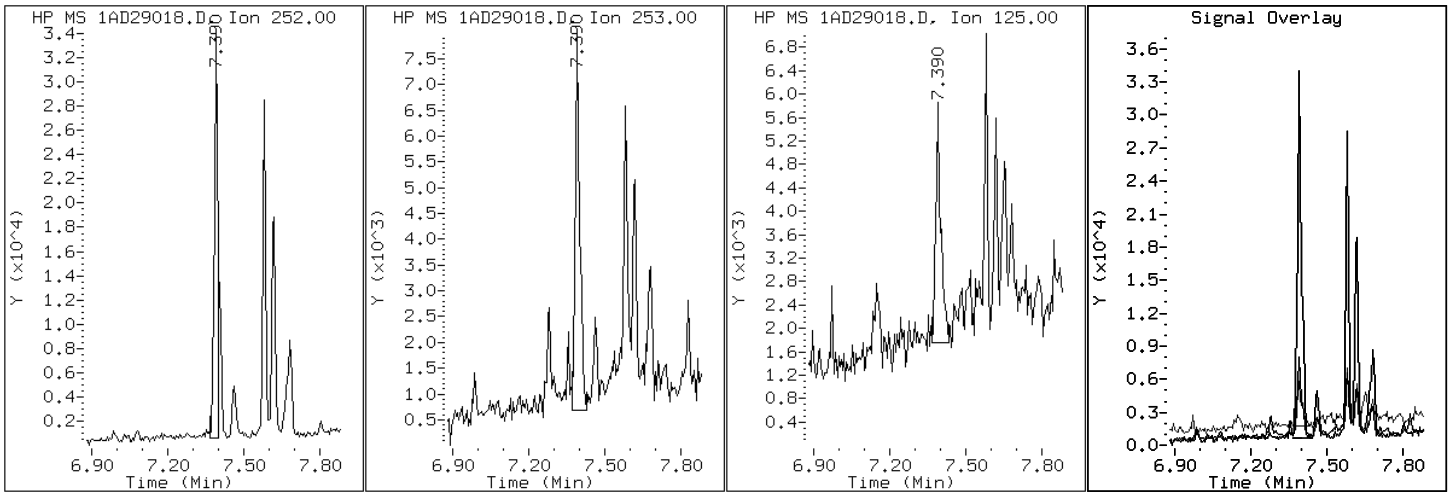
Data File: 1AD29018.D

Date: 29-APR-2013 16:24

Client ID: CV0718A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a Operator: SCC

20 Benzo(b)fluoranthene



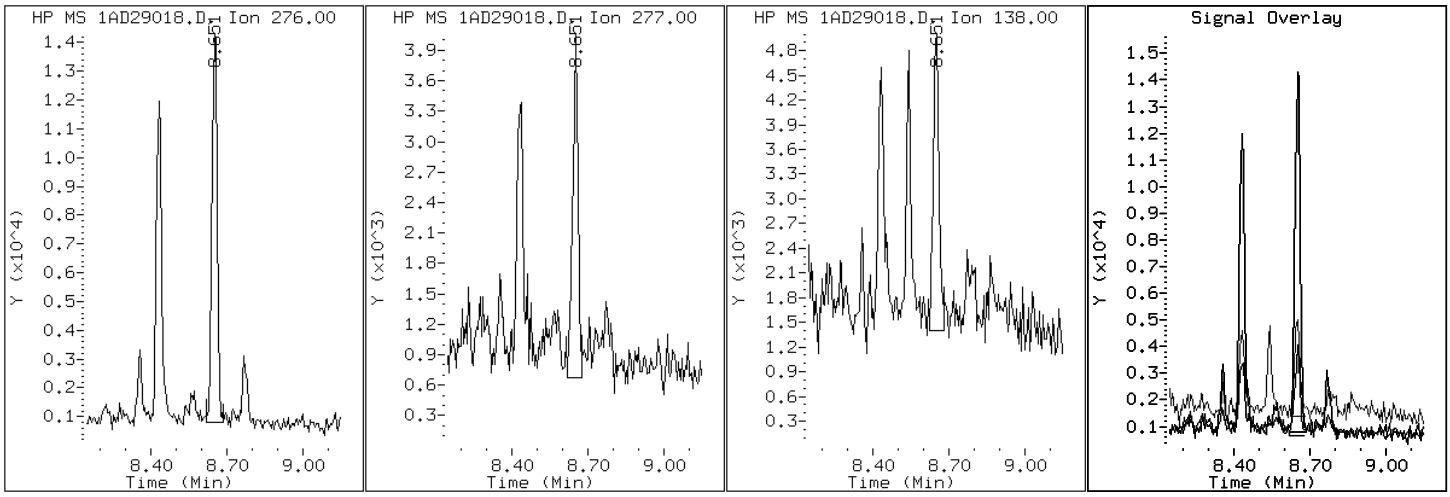
Data File: 1AD29018.D

Date: 29-APR-2013 16:24

Client ID: CV0718A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a Operator: SCC

26 Benzo(g,h,i)perylene



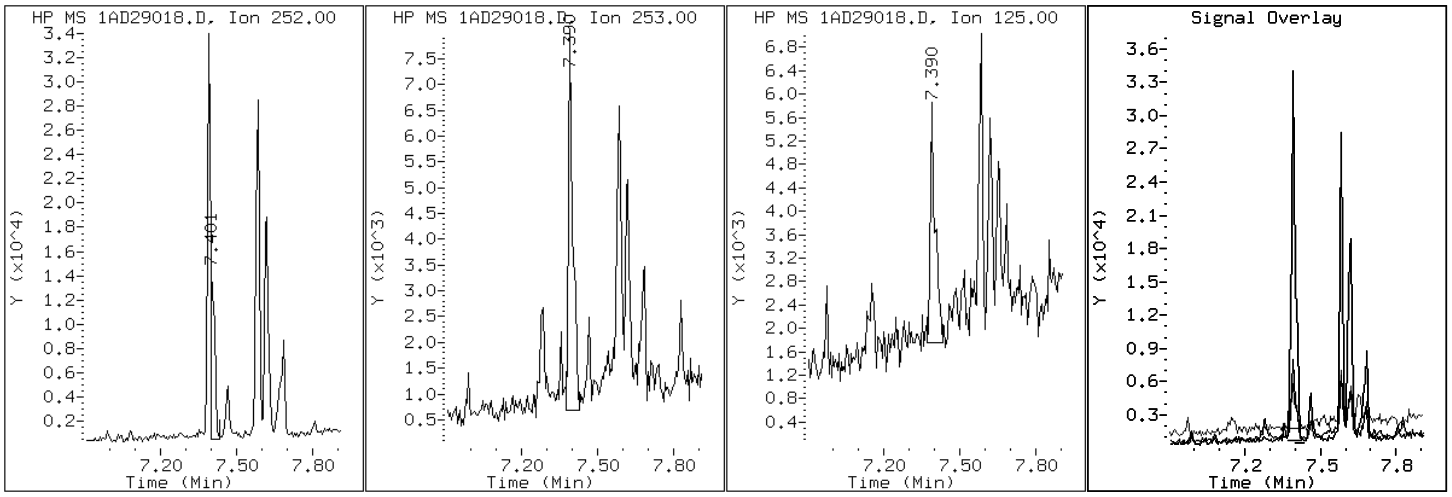
Data File: 1AD29018.D

Date: 29-APR-2013 16:24

Client ID: CV0718A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a Operator: SCC

21 Benzo(k)fluoranthene



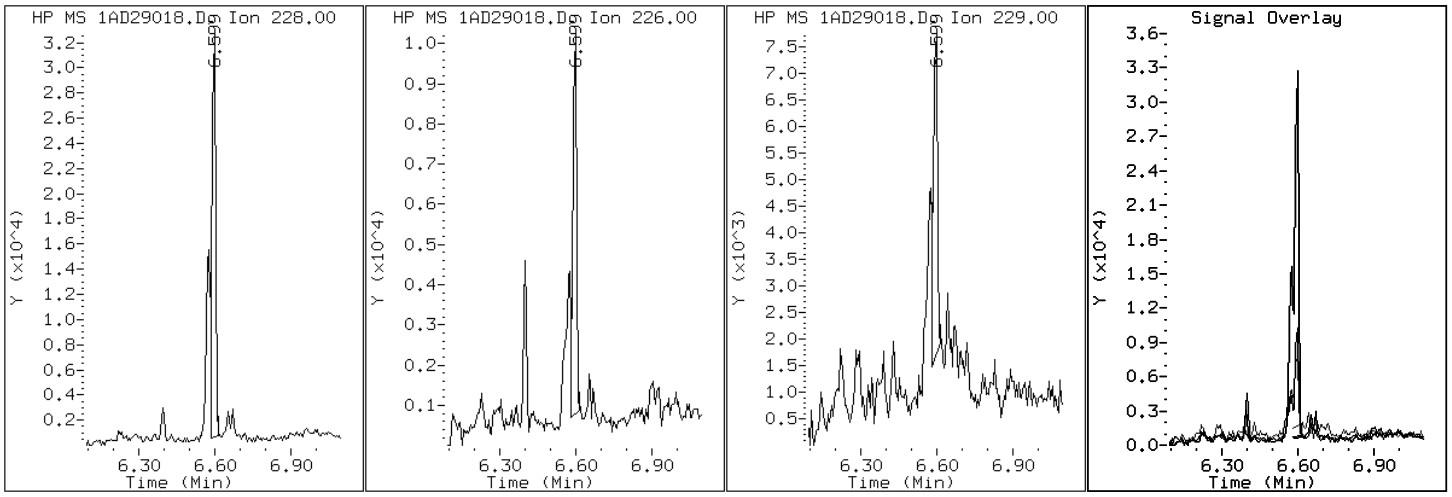
Data File: 1AD29018.D

Date: 29-APR-2013 16:24

Client ID: CV0718A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a Operator: SCC

19 Chrysene



Data File: 1AD29018.D

Date: 29-APR-2013 16:24

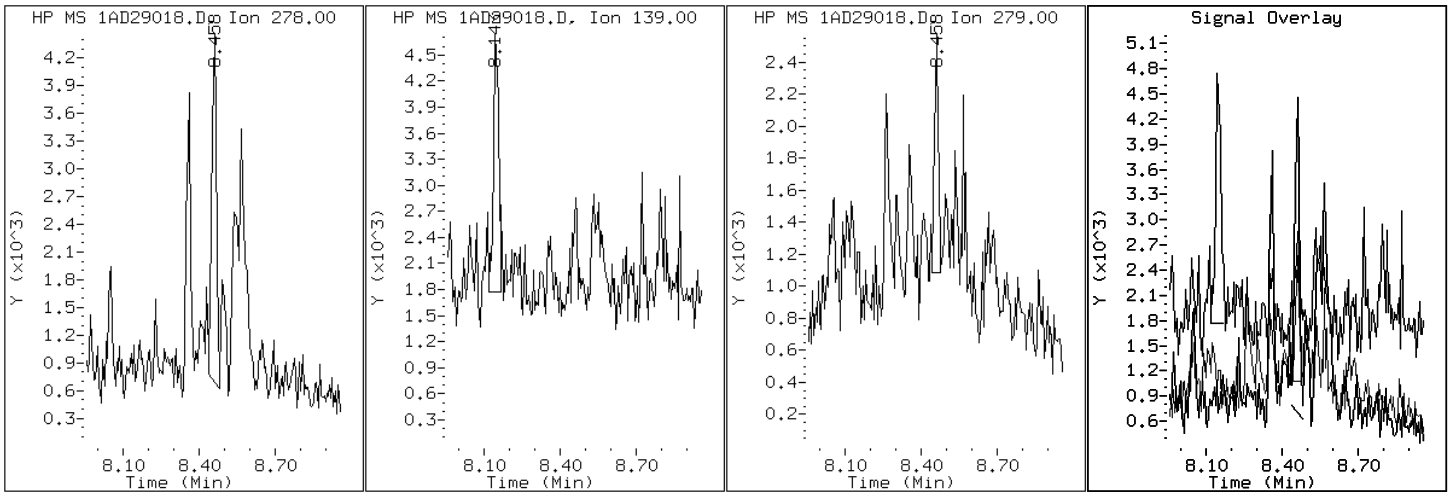
Client ID: CV0718A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a

Operator: SCC

25 Dibenzo(a,h)anthracene



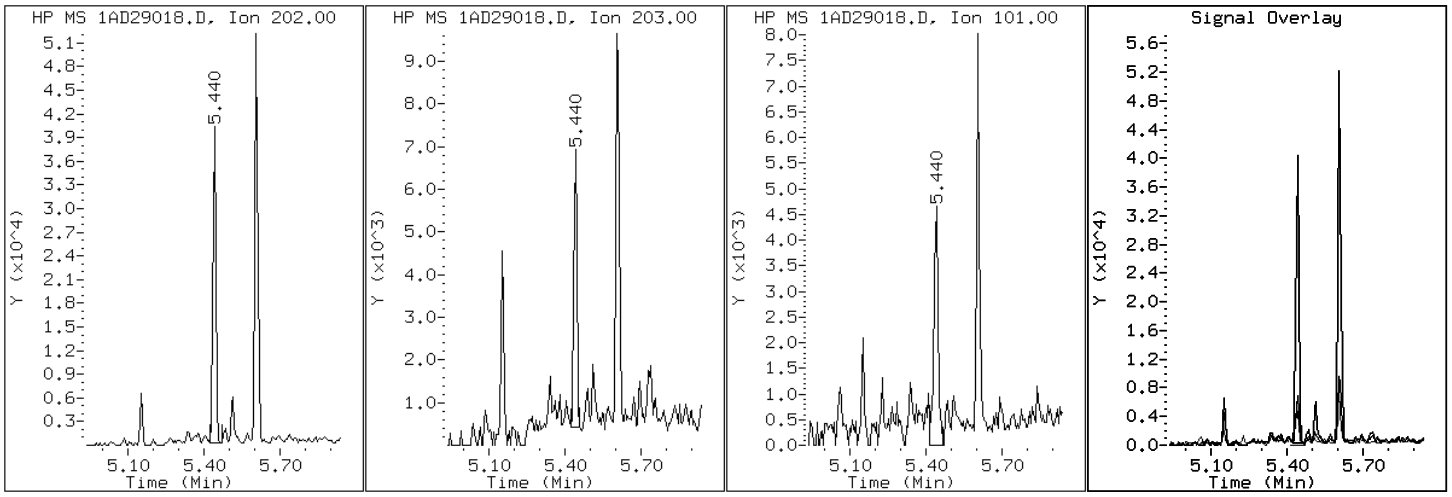
Data File: 1AD29018.D

Date: 29-APR-2013 16:24

Client ID: CV0718A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a Operator: SCC

15 Fluoranthene



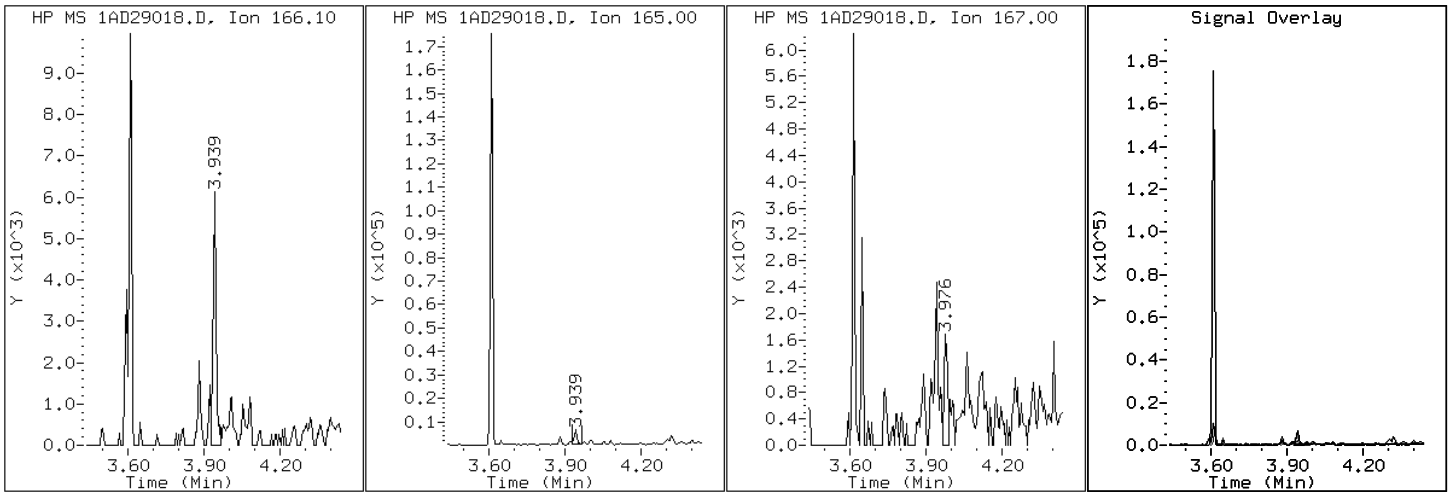
Data File: 1AD29018.D

Date: 29-APR-2013 16:24

Client ID: CV0718A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a Operator: SCC

9 Fluorene



Data File: 1AD29018.D

Date: 29-APR-2013 16:24

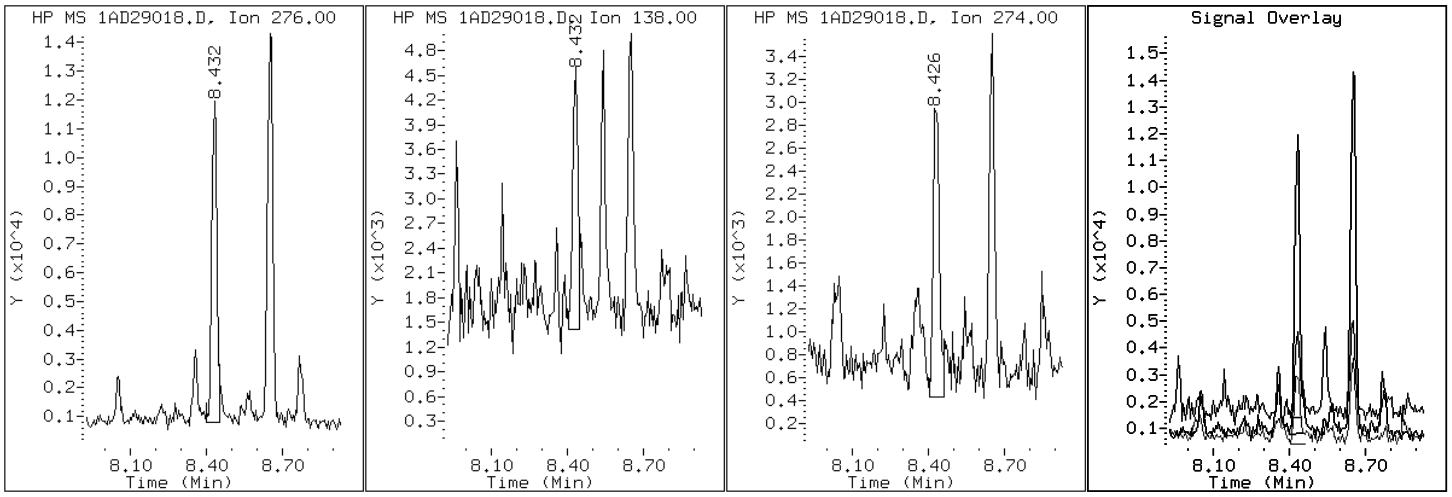
Client ID: CV0718A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a

Operator: SCC

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



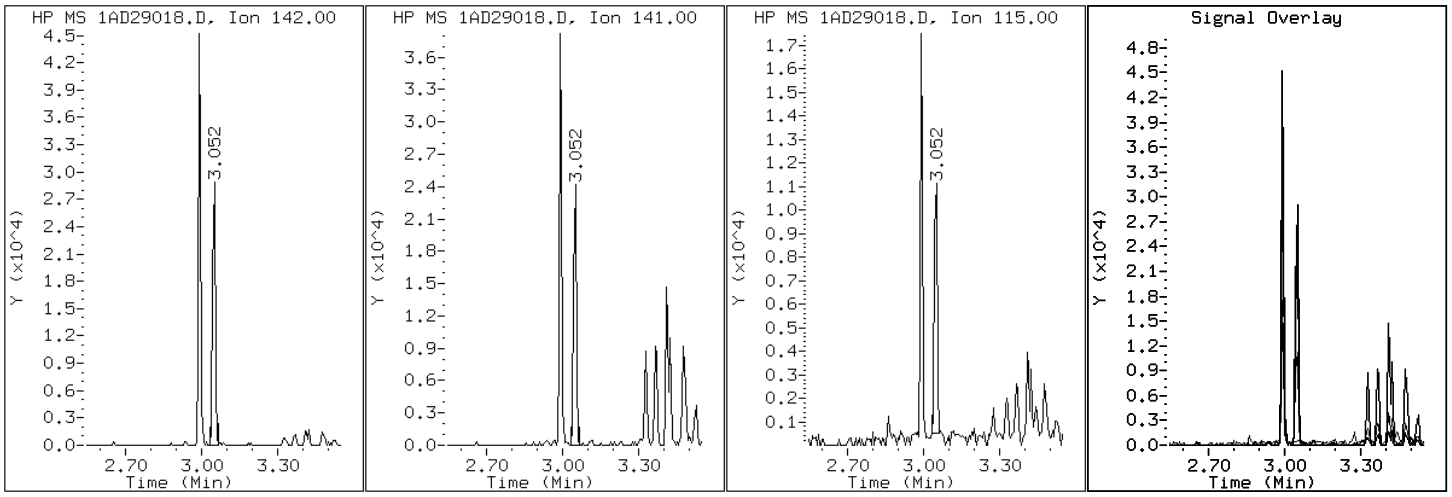
Data File: 1AD29018.D

Date: 29-APR-2013 16:24

Client ID: CV0718A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a Operator: SCC

4 1-Methylnaphthalene



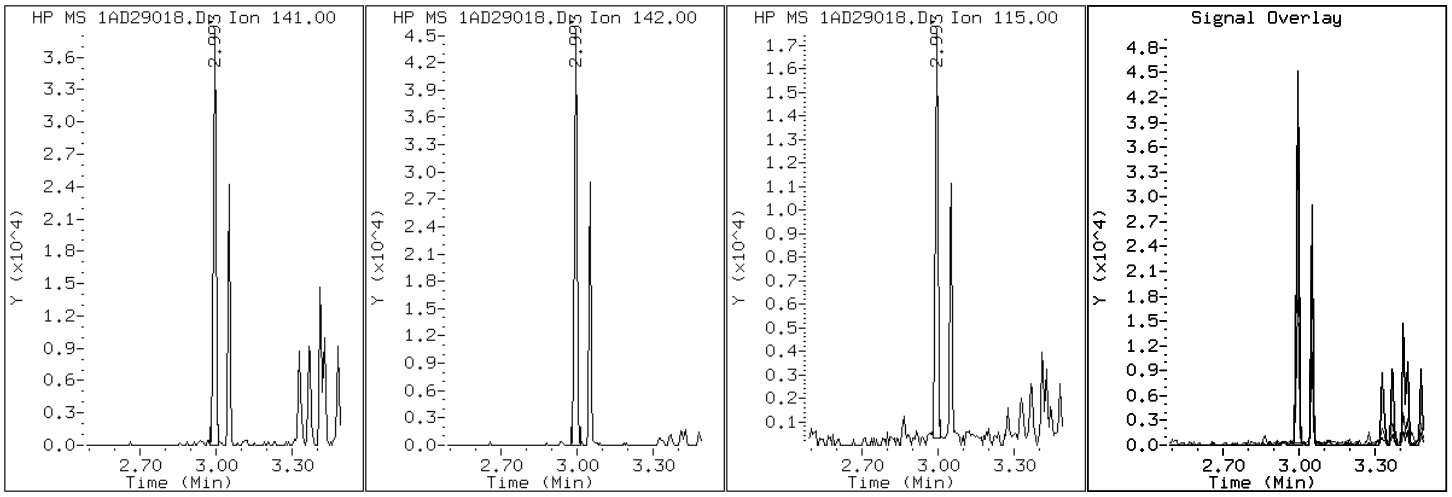
Data File: 1AD29018.D

Date: 29-APR-2013 16:24

Client ID: CV0718A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD29018.D

Date: 29-APR-2013 16:24

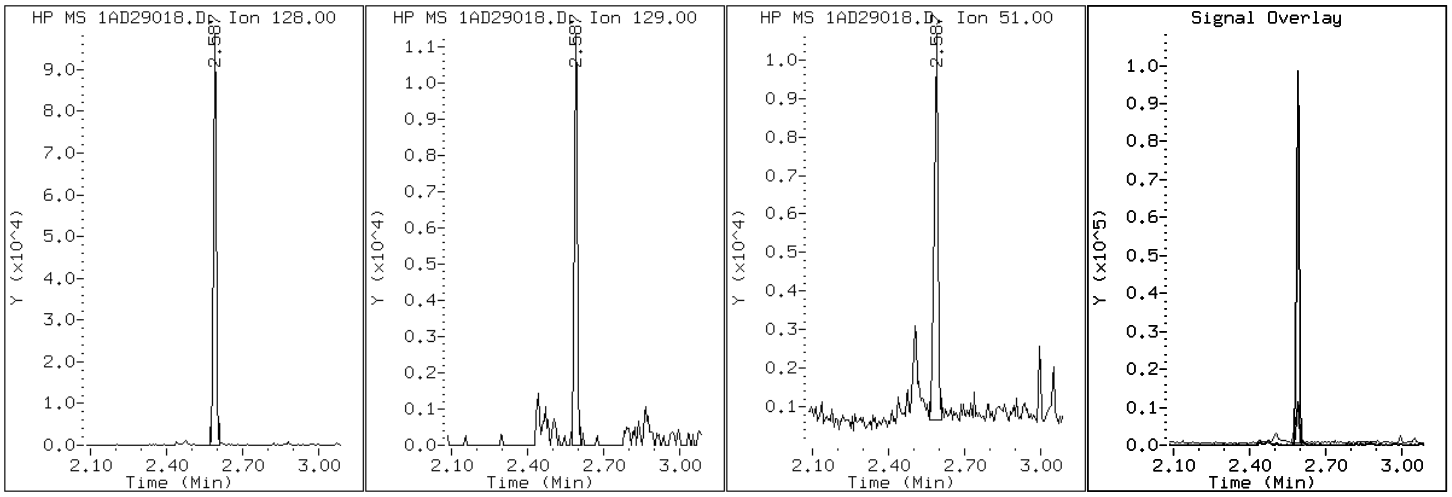
Client ID: CV0718A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a

Operator: SCC

2 Naphthalene



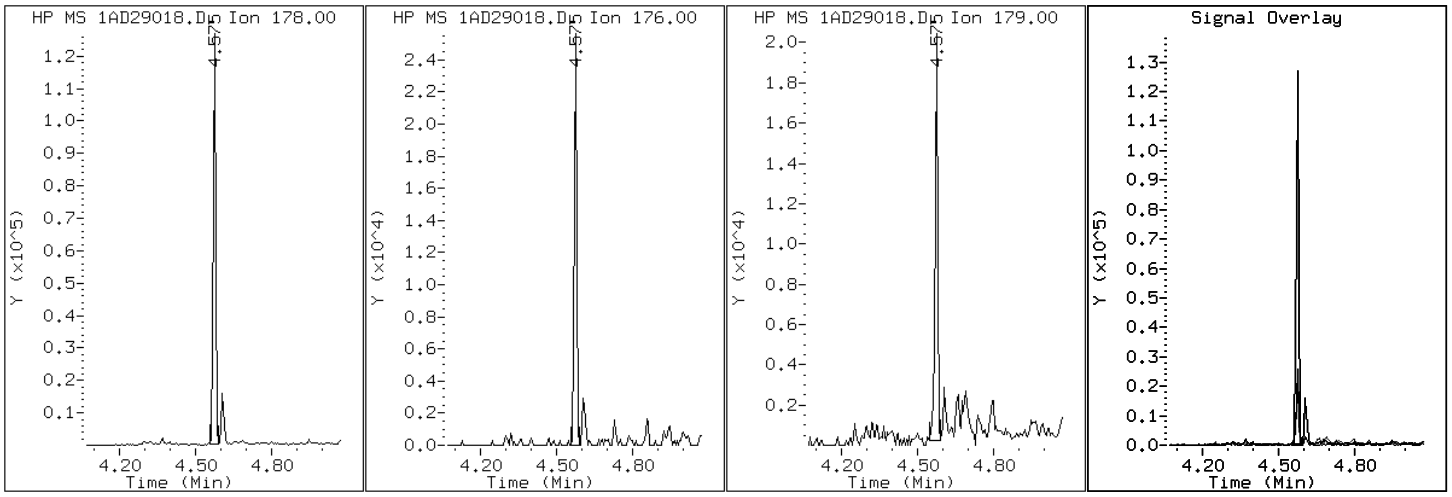
Data File: 1AD29018.D

Date: 29-APR-2013 16:24

Client ID: CV0718A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a Operator: SCC

11 Phenanthrene



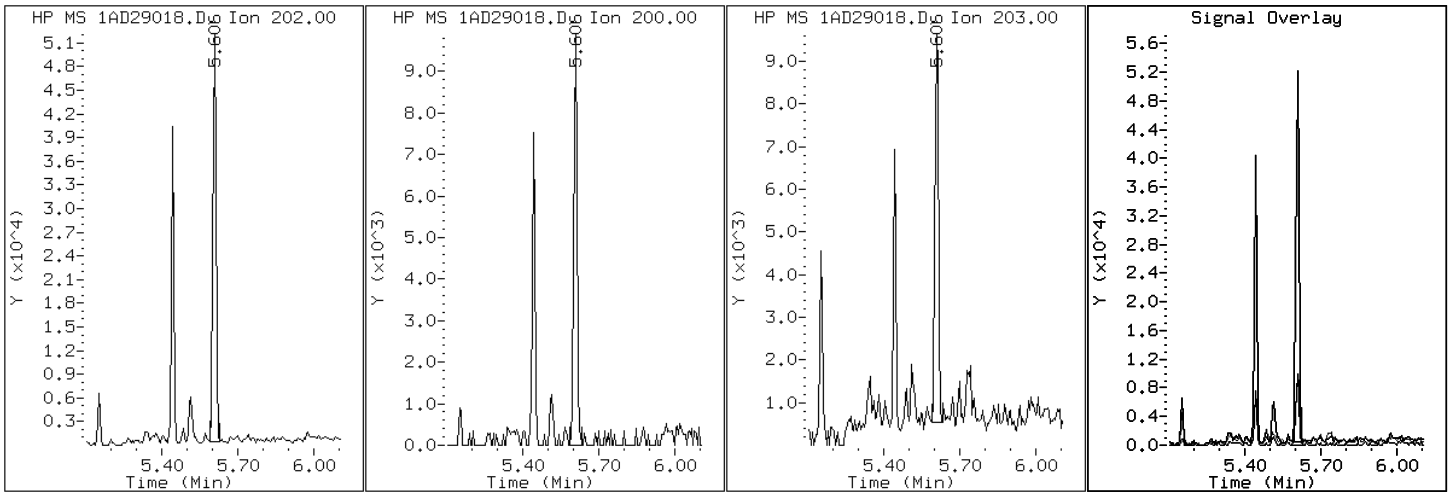
Data File: 1AD29018.D

Date: 29-APR-2013 16:24

Client ID: CV0718A-CS-SP | Instrument: BSMA5973.i

Sample Info: 680-89695-a-15-a | Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD29018.D
Inj. Date and Time: 29-APR-2013 16:24
Instrument ID: BSMA5973.i
Client ID: CV0718A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

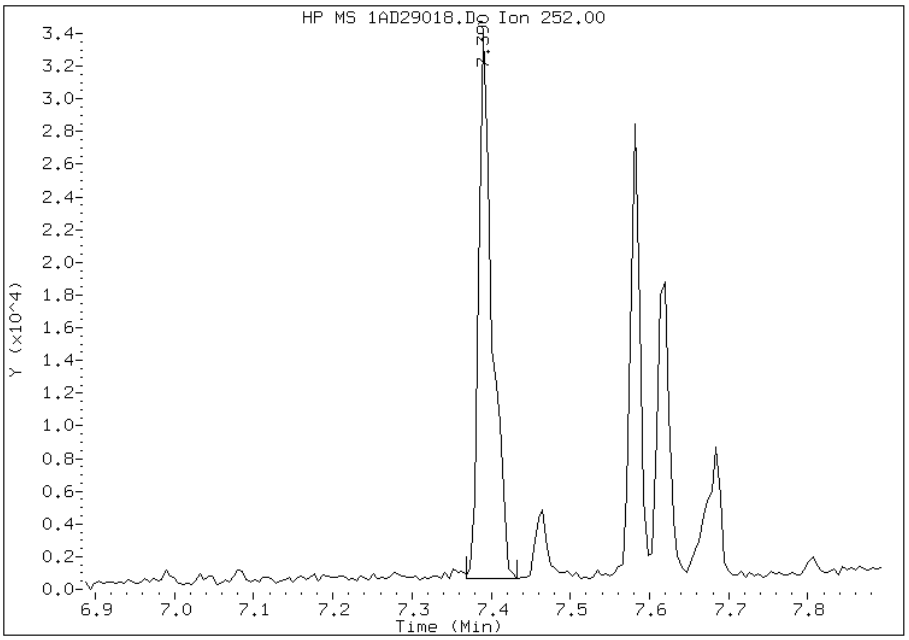
Processing Integration Results

RT: 7.39

Response: 39402

Amount: 1

Conc: 238



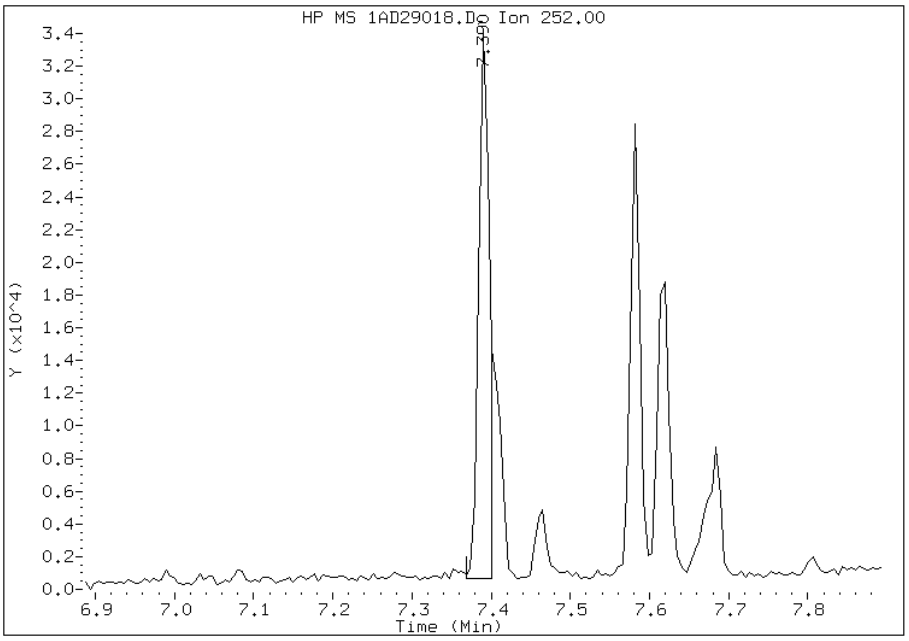
Manual Integration Results

RT: 7.39

Response: 30951

Amount: 1

Conc: 187



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:24
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29018.D
Inj. Date and Time: 29-APR-2013 16:24
Instrument ID: BSMA5973.i
Client ID: CV0718A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

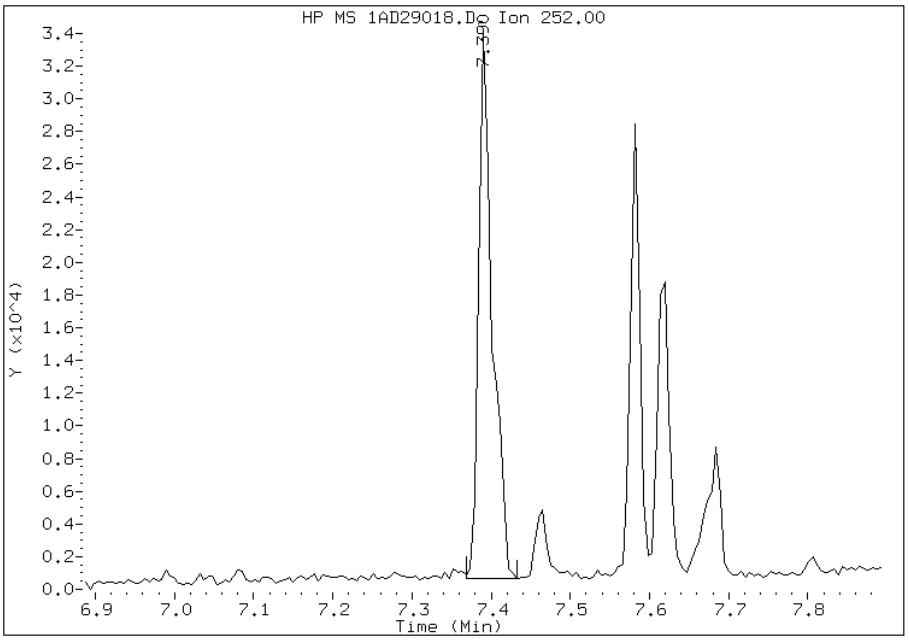
Processing Integration Results

RT: 7.39

Response: 39402

Amount: 1

Conc: 207



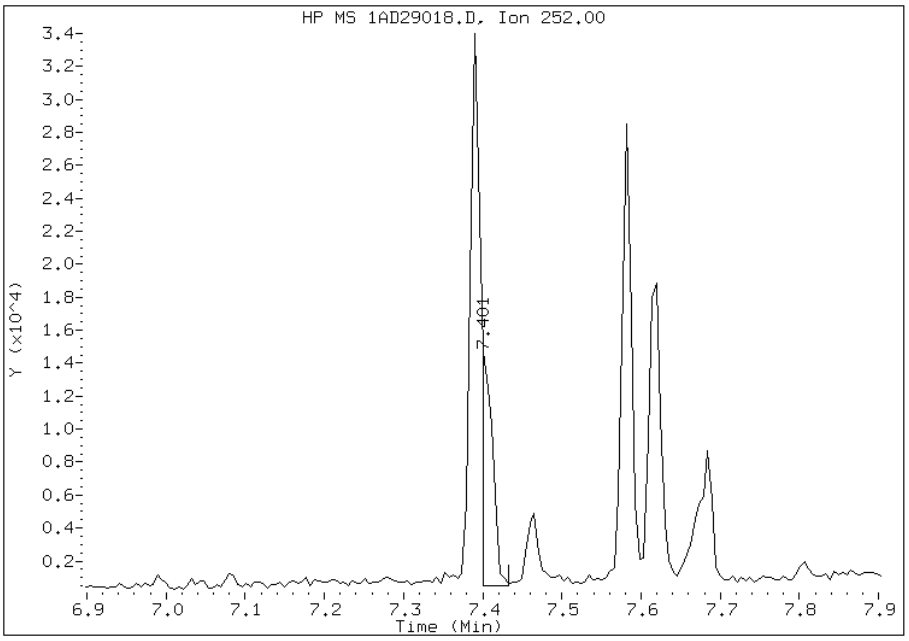
Manual Integration Results

RT: 7.40

Response: 13281

Amount: 0

Conc: 70



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29018.D
Inj. Date and Time: 29-APR-2013 16:24
Instrument ID: BSMA5973.i
Client ID: CV0718A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

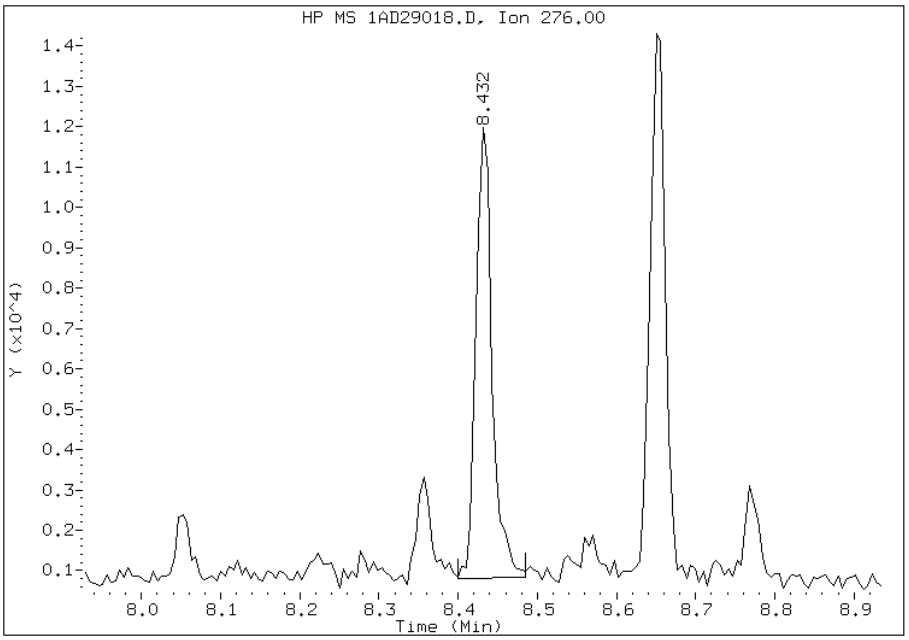
Processing Integration Results

RT: 8.43

Response: 15647

Amount: 0

Conc: 101



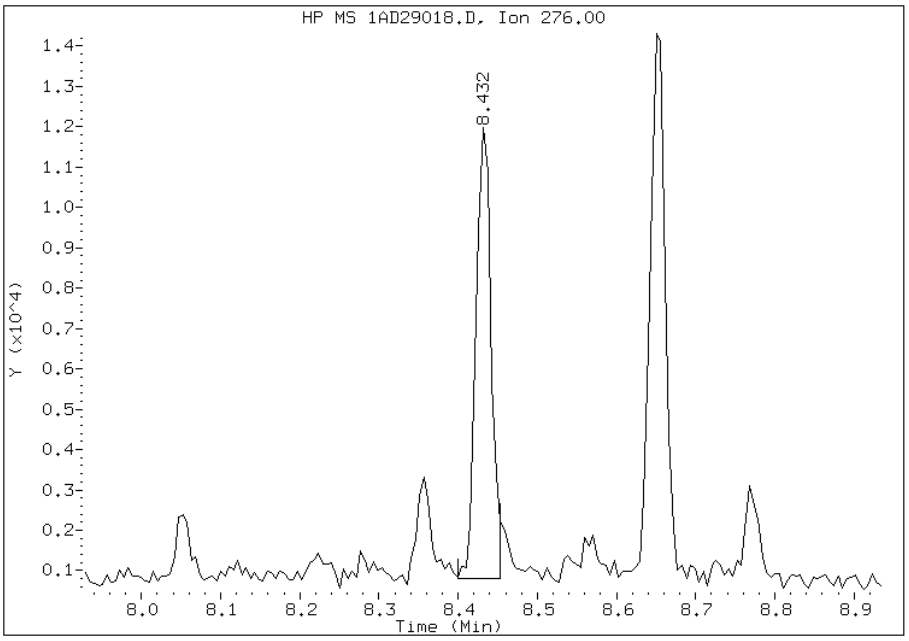
Manual Integration Results

RT: 8.43

Response: 14739

Amount: 0

Conc: 95



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV0718B-CS-SP | Lab Sample ID: 680-89695-16

Matrix: Solid | Lab File ID: 1AD29019.D

Analysis Method: 8270C LL | Date Collected: 04/23/2013 09:44

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 15.05(g) | Date Analyzed: 04/29/2013 16:39

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

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

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

Analysis Batch No.: 136961 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	97
208-96-8	Acenaphthylene	28	J	190	24
120-12-7	Anthracene	44		41	20
56-55-3	Benzo[a]anthracene	160		39	19
50-32-8	Benzo[a]pyrene	130		50	25
205-99-2	Benzo[b]fluoranthene	240		59	29
191-24-2	Benzo[g,h,i]perylene	130		97	21
207-08-9	Benzo[k]fluoranthene	57		39	17
218-01-9	Chrysene	210		43	22
53-70-3	Dibenz(a,h)anthracene	42	J	97	20
206-44-0	Fluoranthene	200		97	19
86-73-7	Fluorene	97	U	97	20
193-39-5	Indeno[1,2,3-cd]pyrene	100		97	34
90-12-0	1-Methylnaphthalene	140	J	190	21
91-57-6	2-Methylnaphthalene	200		190	34
91-20-3	Naphthalene	130	J	190	21
85-01-8	Phenanthrene	280		39	19
129-00-0	Pyrene	160		97	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29019.D
Lab Smp Id: 680-89695-A-16-A Client Smp ID: CV0718B-CS-SP
Inj Date : 29-APR-2013 16:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89695-a-16-a
Misc Info : 680-89695-A-16-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 19
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	17.489	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.576	2.572	(1.000)	1856864	40.0000	
* 6 Acenaphthene-d10	164	3.607	3.603	(1.000)	934736	40.0000	
* 10 Phenanthrene-d10	188	4.563	4.554	(1.000)	1473973	40.0000	
$ 14 o-Terphenyl	230	4.857	4.859	(1.064)	33562	1.39210	448.4153
* 18 Chrysene-d12	240	6.588	6.574	(1.000)	1595249	40.0000	
* 23 Perylene-d12	264	7.678	7.663	(1.000)	1957248	40.0000	
2 Naphthalene	128	2.587	2.583	(1.004)	19049	0.41038	132.1898
3 2-Methylnaphthalene	141	2.993	2.989	(1.162)	16516	0.62061	199.9089
4 1-Methylnaphthalene	142	3.052	3.048	(1.185)	13260	0.44973	144.8649
5 Acenaphthylene	152	3.522	3.513	(0.976)	4706	0.08615	27.7487(Q)
11 Phenanthrene	178	4.574	4.570	(1.002)	37275	0.87299	281.2031
12 Anthracene	178	4.606	4.608	(1.009)	6017	0.13553	43.6554
13 Carbazole	167	4.740	4.736	(1.039)	4279	0.09991	32.1819
15 Fluoranthene	202	5.440	5.436	(1.192)	30319	0.61478	198.0281

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.605	5.601	(0.851)	29820	0.48998	157.8290
17 Benzo(a)anthracene	228	6.577	6.563	(0.998)	25558	0.49059	158.0271
19 Chrysene	228	6.599	6.595	(1.002)	33785	0.63923	205.9055
20 Benzo(b)fluoranthene	252	7.389	7.380	(0.962)	44516	0.74916	241.3168(M)
21 Benzo(k)fluoranthene	252	7.405	7.407	(0.965)	12009	0.17578	56.6207(QM)
22 Benzo(a)pyrene	252	7.619	7.610	(0.992)	23374	0.39541	127.3682
24 Indeno(1,2,3-cd)pyrene	276	8.431	8.427	(1.098)	17806	0.31902	102.7607
25 Dibenzo(a,h)anthracene	278	8.458	8.454	(1.102)	6771	0.13038	41.9972
26 Benzo(g,h,i)perylene	276	8.656	8.646	(1.127)	24450	0.39140	126.0769

QC Flag Legend

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

Data File: 1AD29019.D

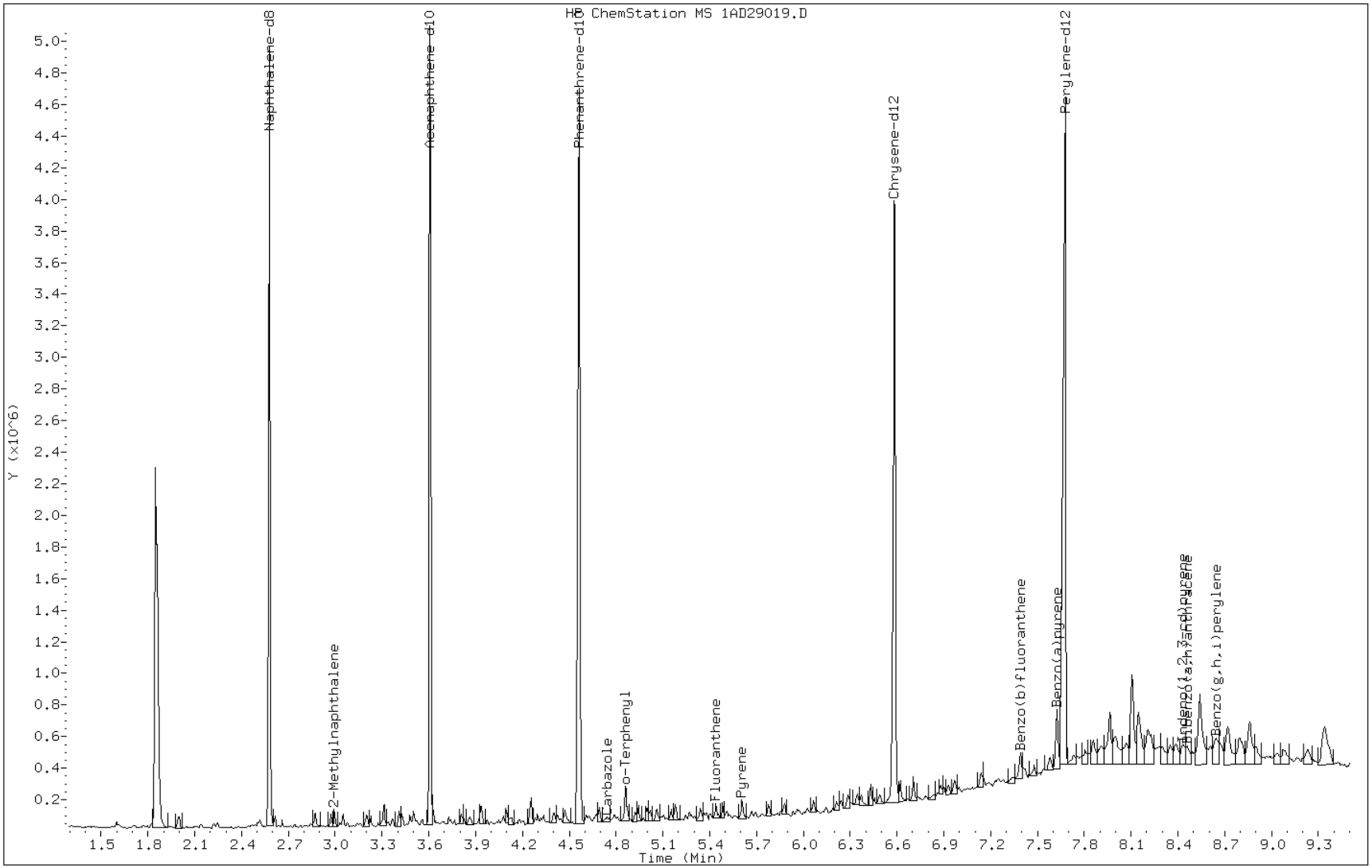
Date: 29-APR-2013 16:39

Client ID: CV0718B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-16-a

Operator: SCC



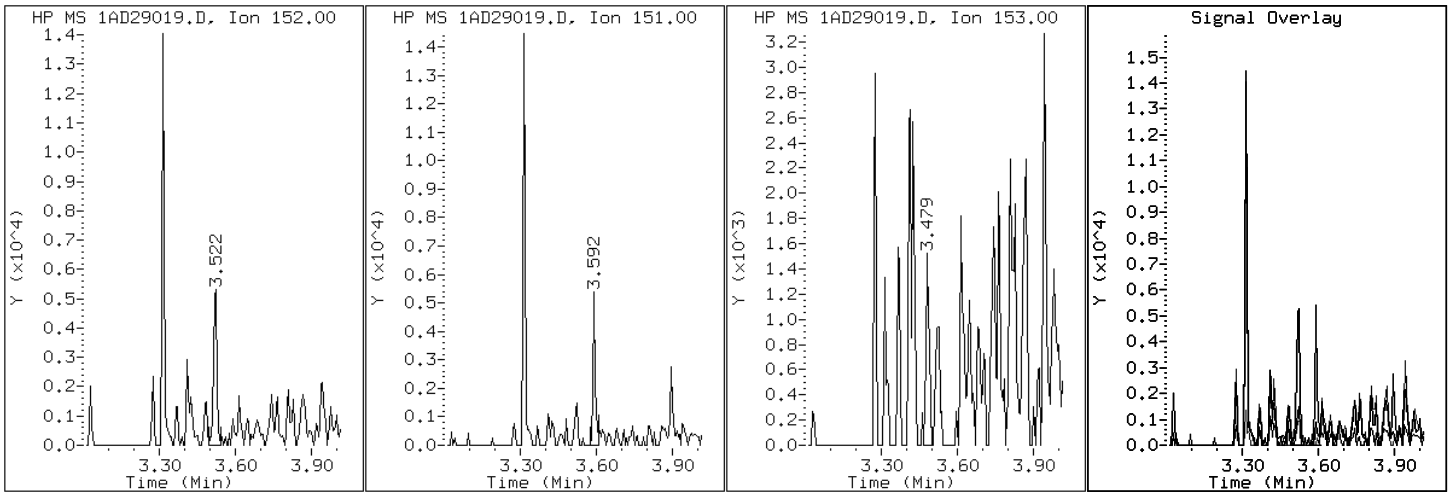
Data File: 1AD29019.D

Date: 29-APR-2013 16:39

Client ID: CV0718B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-16-a Operator: SCC

5 Acenaphthylene



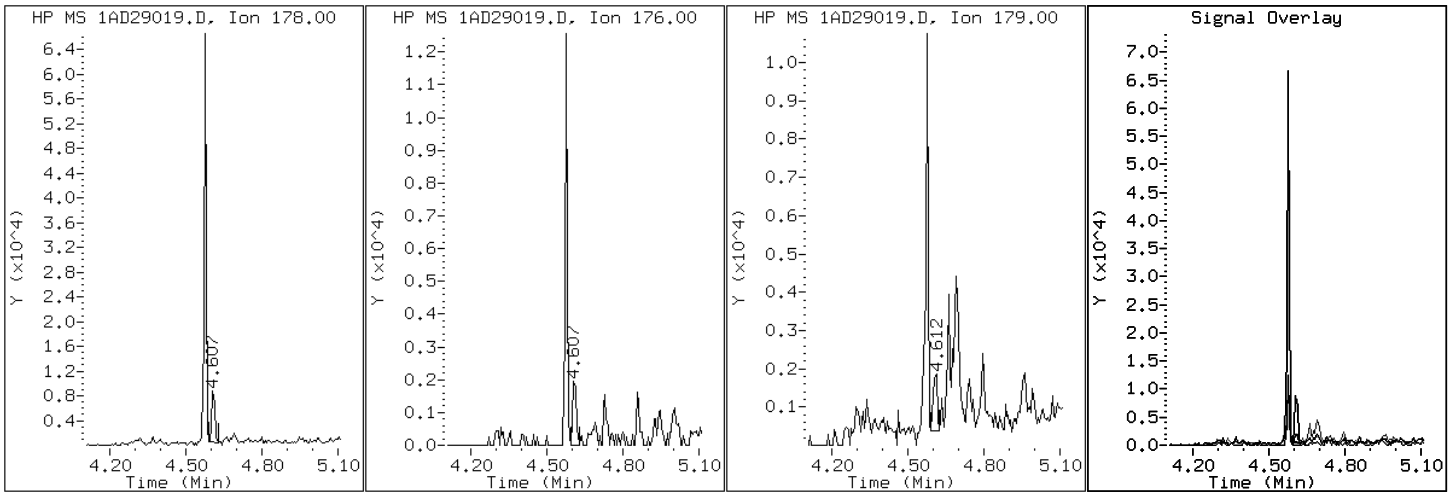
Data File: 1AD29019.D

Date: 29-APR-2013 16:39

Client ID: CV0718B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-16-a Operator: SCC

12 Anthracene



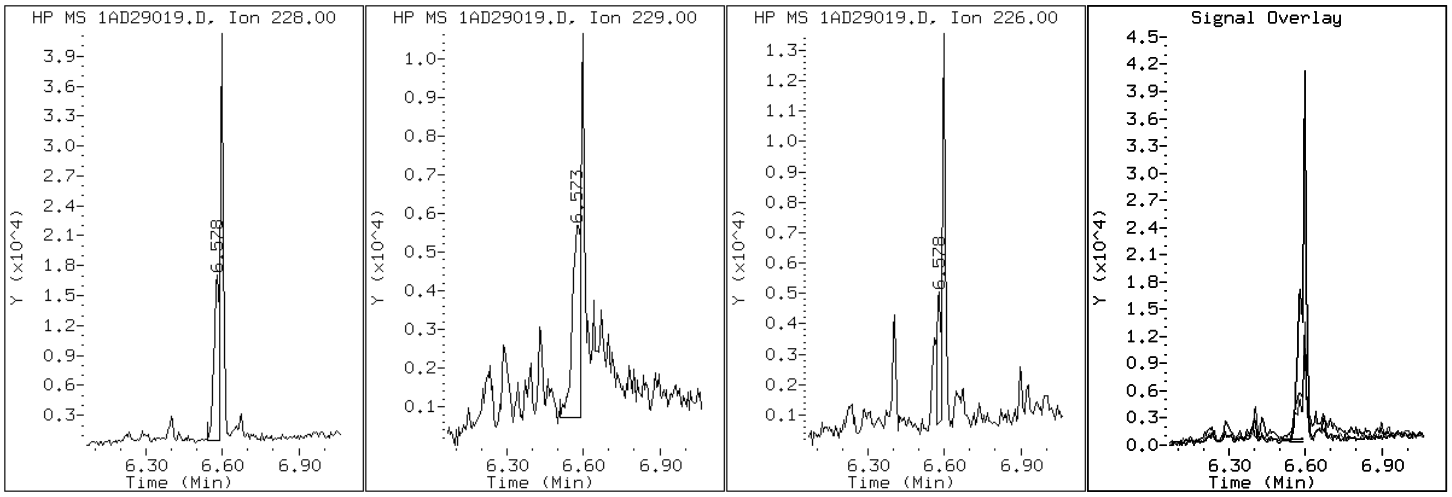
Data File: 1AD29019.D

Date: 29-APR-2013 16:39

Client ID: CV0718B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-16-a Operator: SCC

17 Benzo(a)anthracene



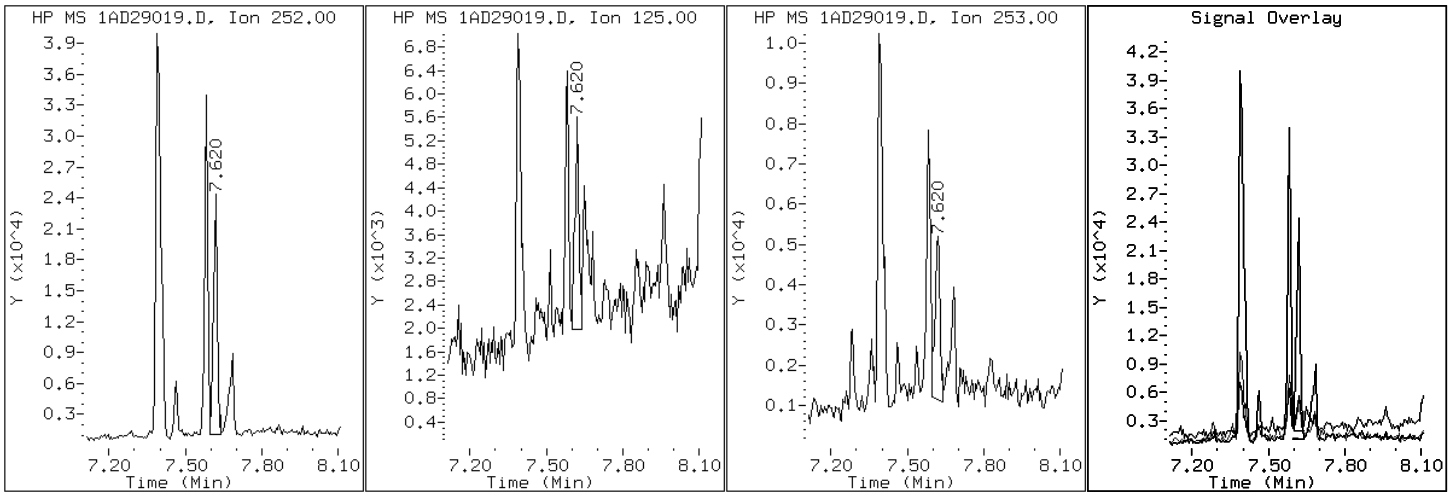
Data File: 1AD29019.D

Date: 29-APR-2013 16:39

Client ID: CV0718B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-16-a Operator: SCC

22 Benzo(a)pyrene



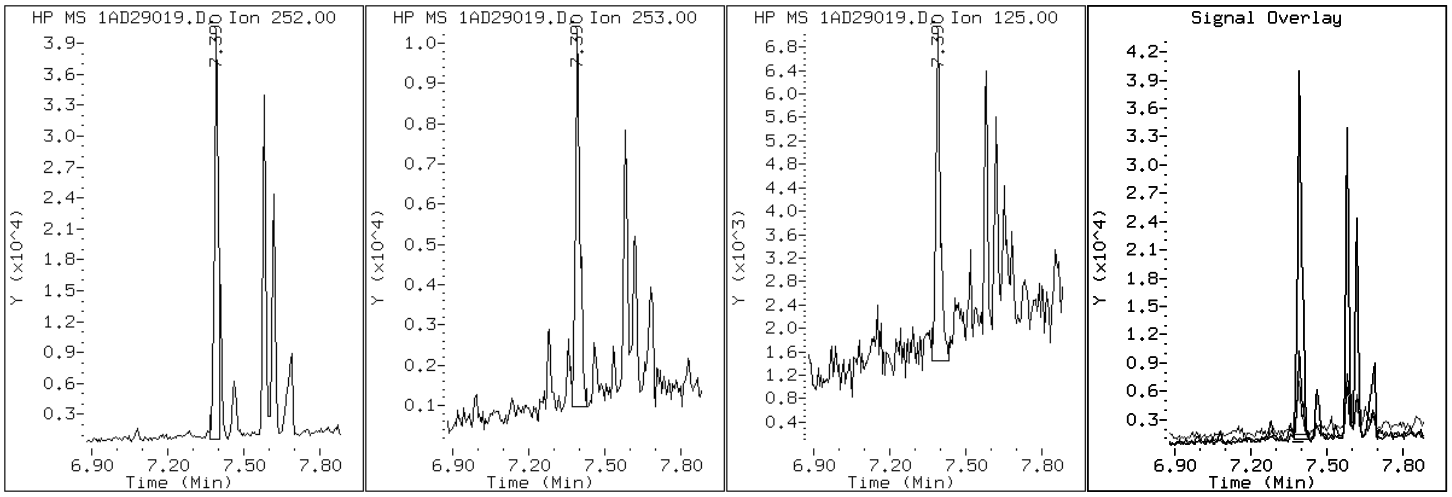
Data File: 1AD29019.D

Date: 29-APR-2013 16:39

Client ID: CV0718B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-16-a Operator: SCC

20 Benzo(b)fluoranthene



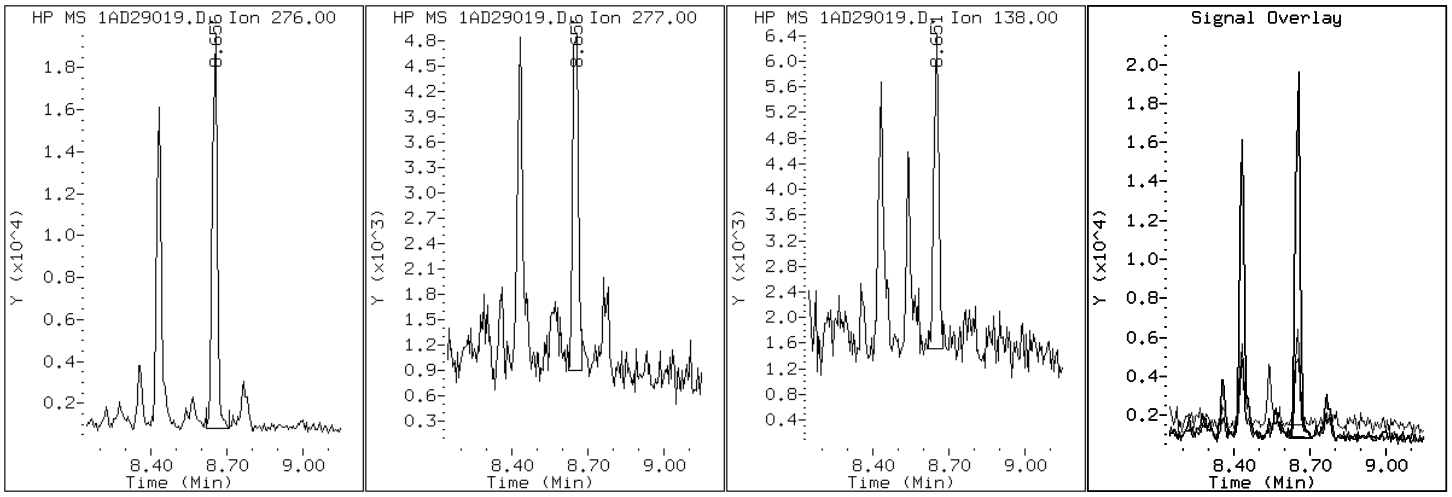
Data File: 1AD29019.D

Date: 29-APR-2013 16:39

Client ID: CV0718B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-16-a Operator: SCC

26 Benzo(g,h,i)perylene



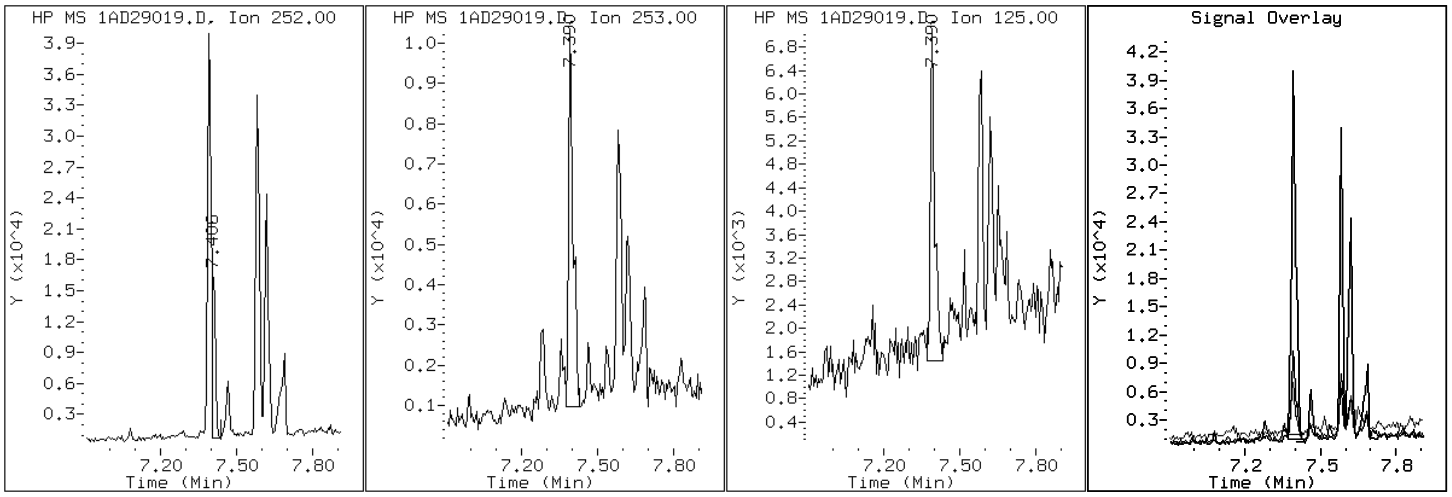
Data File: 1AD29019.D

Date: 29-APR-2013 16:39

Client ID: CV0718B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-16-a Operator: SCC

21 Benzo(k)fluoranthene



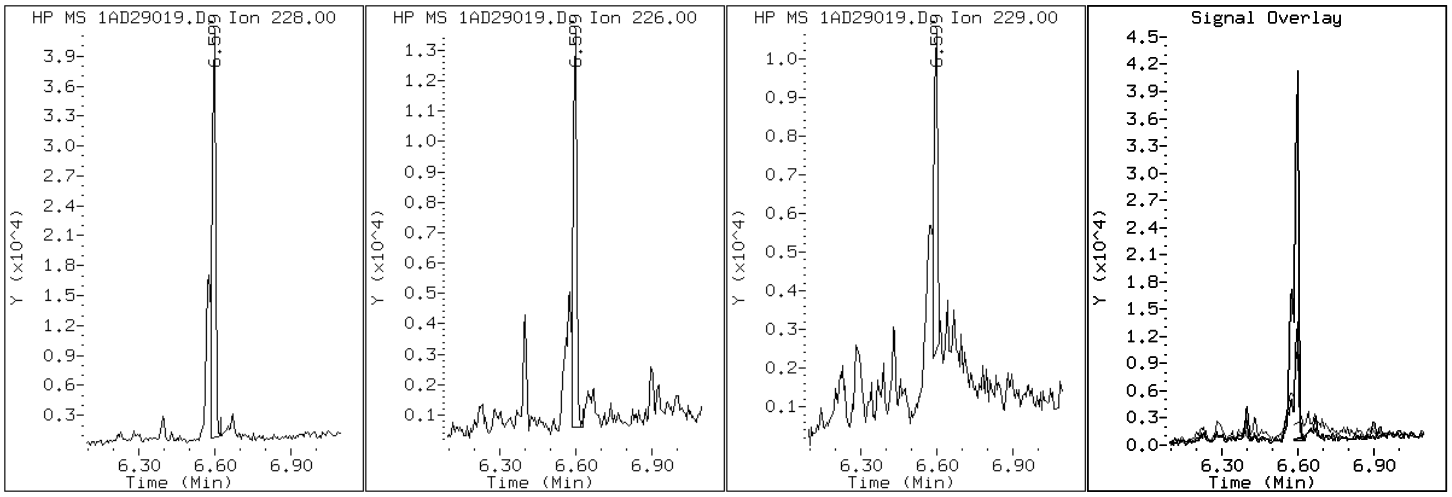
Data File: 1AD29019.D

Date: 29-APR-2013 16:39

Client ID: CV0718B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-16-a Operator: SCC

19 Chrysene



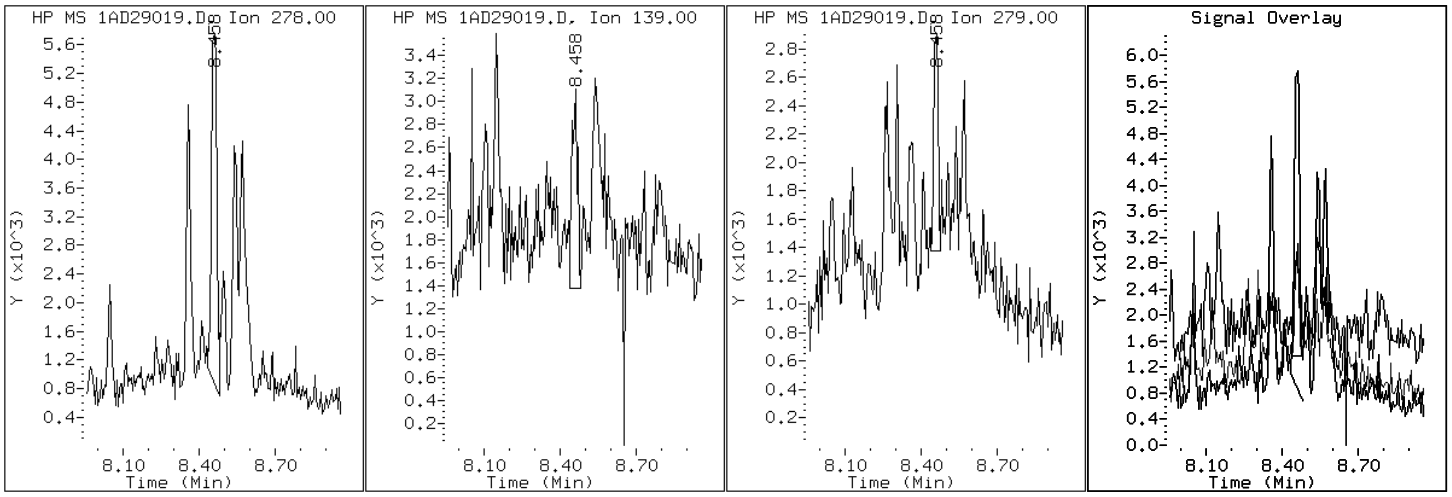
Data File: 1AD29019.D

Date: 29-APR-2013 16:39

Client ID: CV0718B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-16-a Operator: SCC

25 Dibenzo(a,h)anthracene



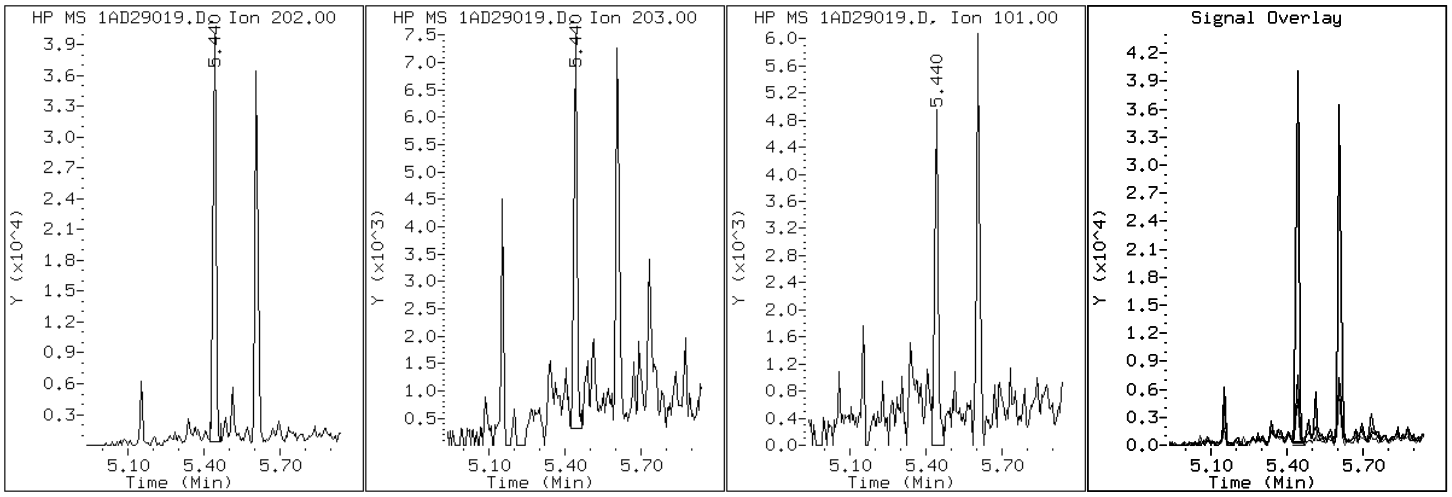
Data File: 1AD29019.D

Date: 29-APR-2013 16:39

Client ID: CV0718B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-16-a Operator: SCC

15 Fluoranthene



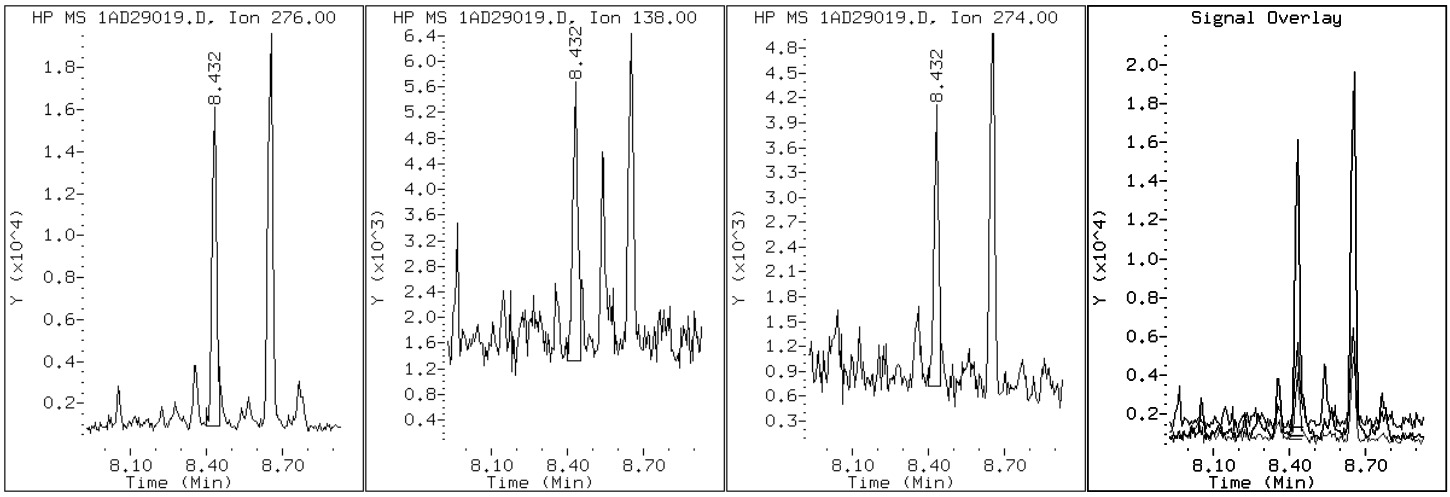
Data File: 1AD29019.D

Date: 29-APR-2013 16:39

Client ID: CV0718B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-16-a Operator: SCC

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



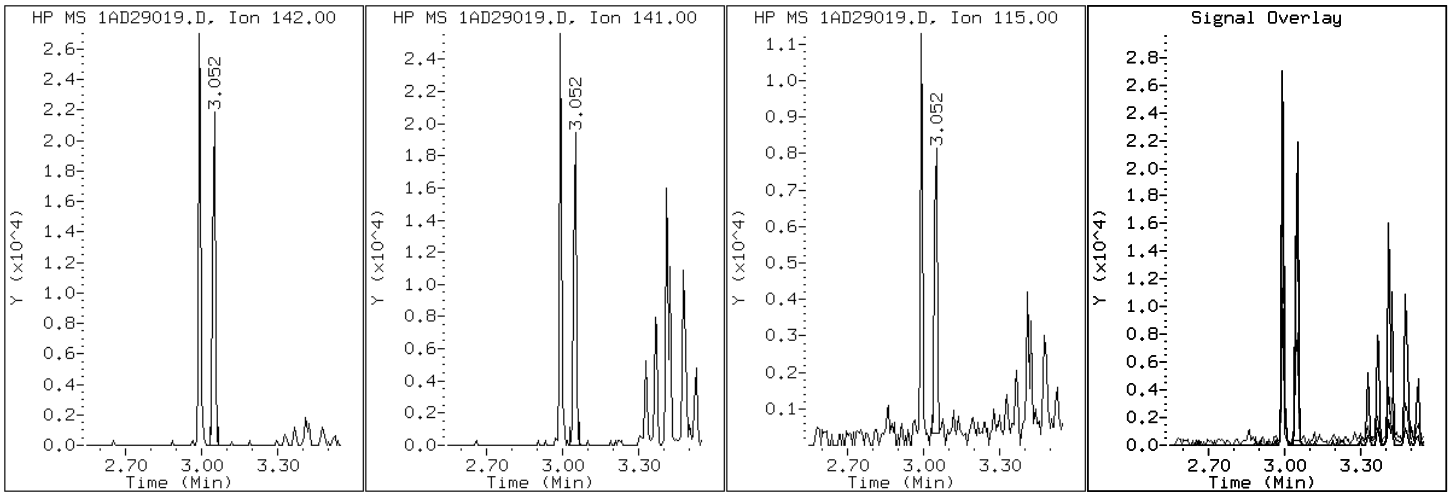
Data File: 1AD29019.D

Date: 29-APR-2013 16:39

Client ID: CV0718B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-16-a Operator: SCC

4 1-Methylnaphthalene



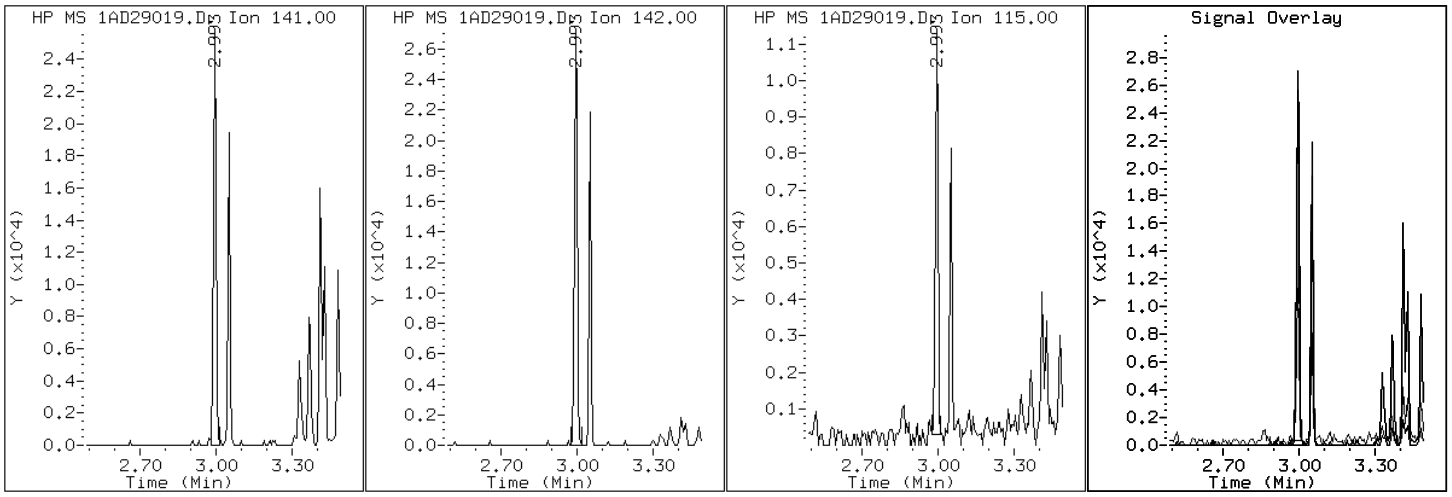
Data File: 1AD29019.D

Date: 29-APR-2013 16:39

Client ID: CV0718B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-16-a Operator: SCC

3 2-Methylnaphthalene



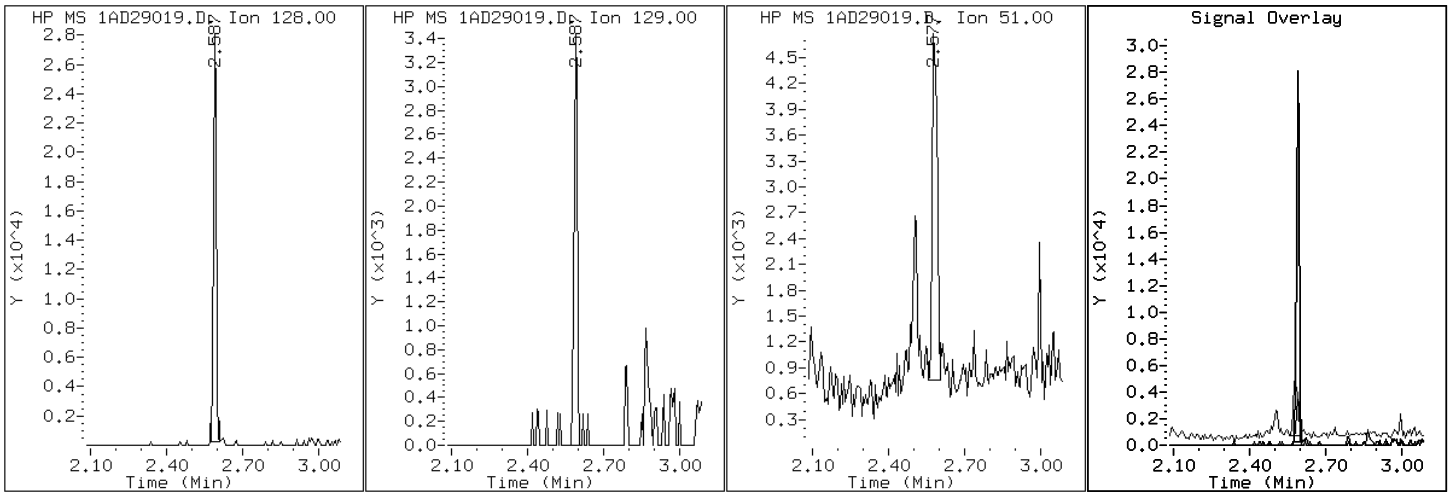
Data File: 1AD29019.D

Date: 29-APR-2013 16:39

Client ID: CV0718B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-16-a Operator: SCC

2 Naphthalene



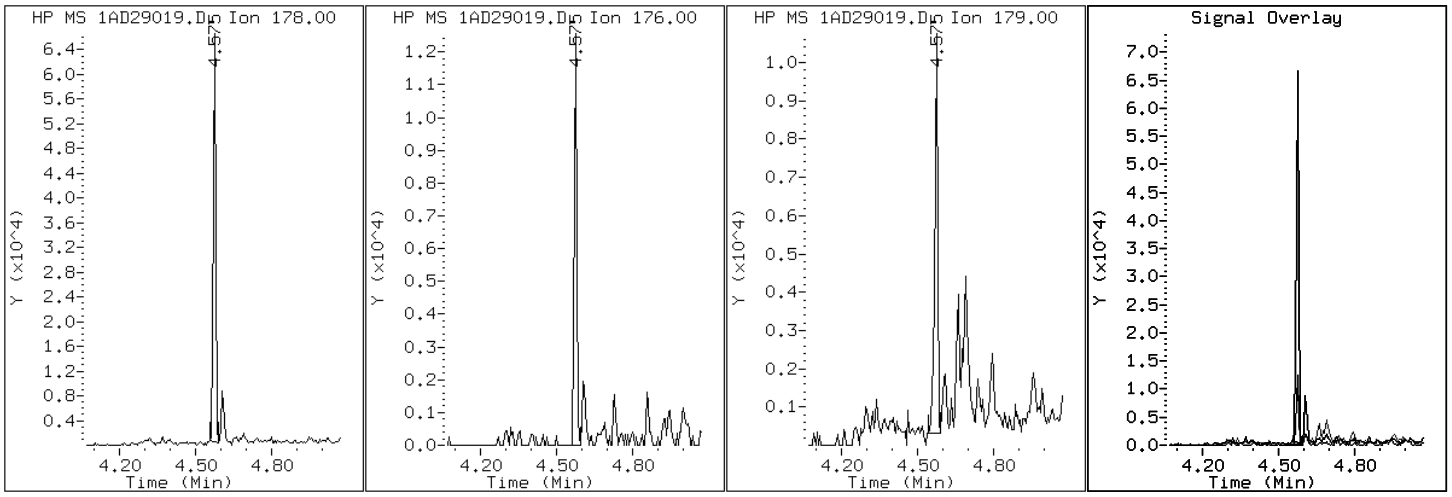
Data File: 1AD29019.D

Date: 29-APR-2013 16:39

Client ID: CV0718B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-16-a Operator: SCC

11 Phenanthrene



Data File: 1AD29019.D

Date: 29-APR-2013 16:39

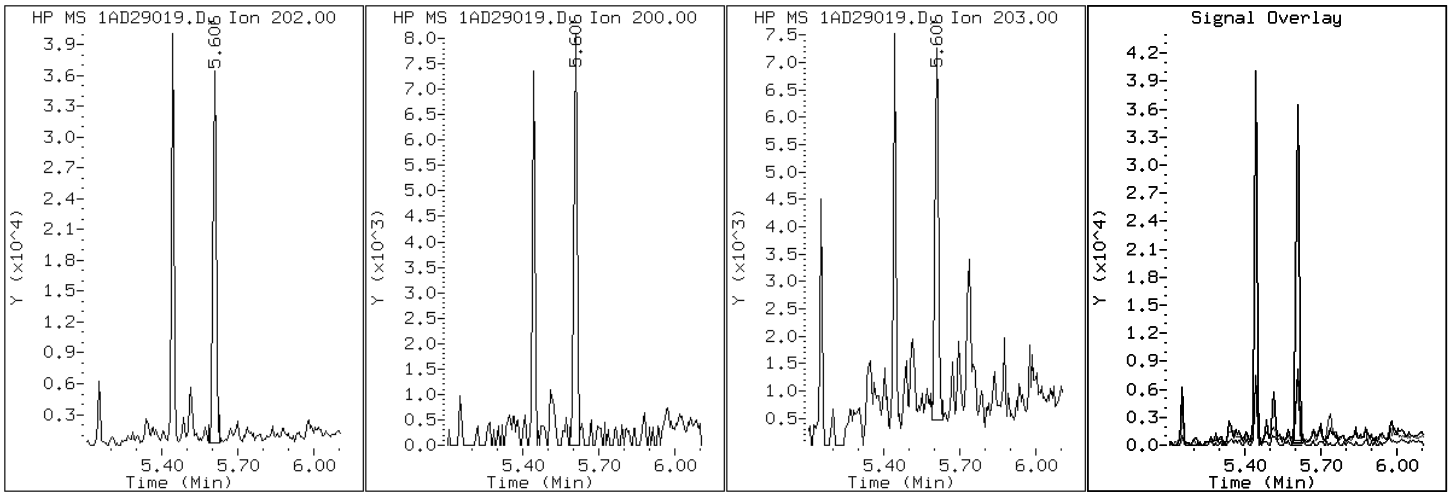
Client ID: CV0718B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-16-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD29019.D
Inj. Date and Time: 29-APR-2013 16:39
Instrument ID: BSMA5973.i
Client ID: CV0718B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

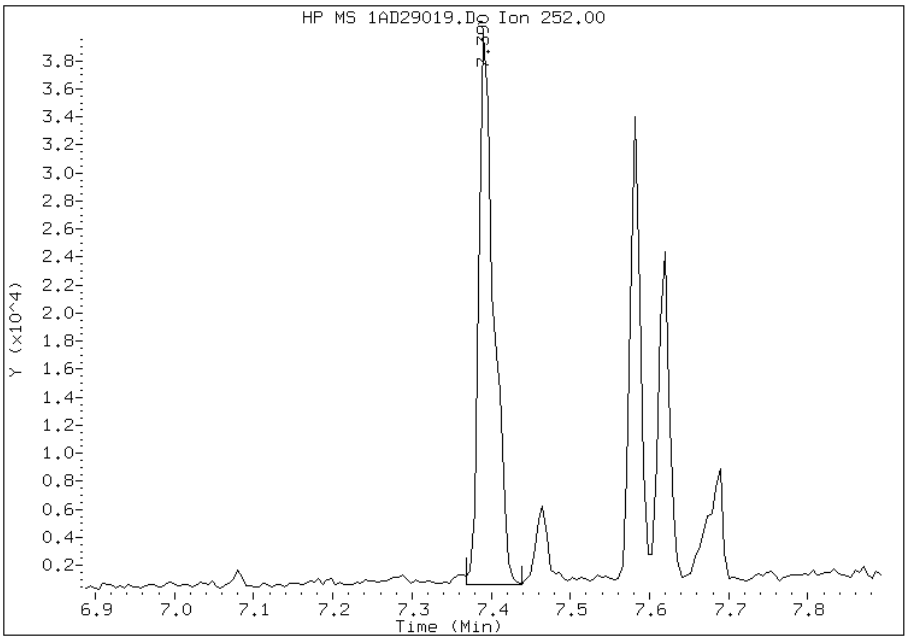
Processing Integration Results

RT: 7.39

Response: 51528

Amount: 1

Conc: 279



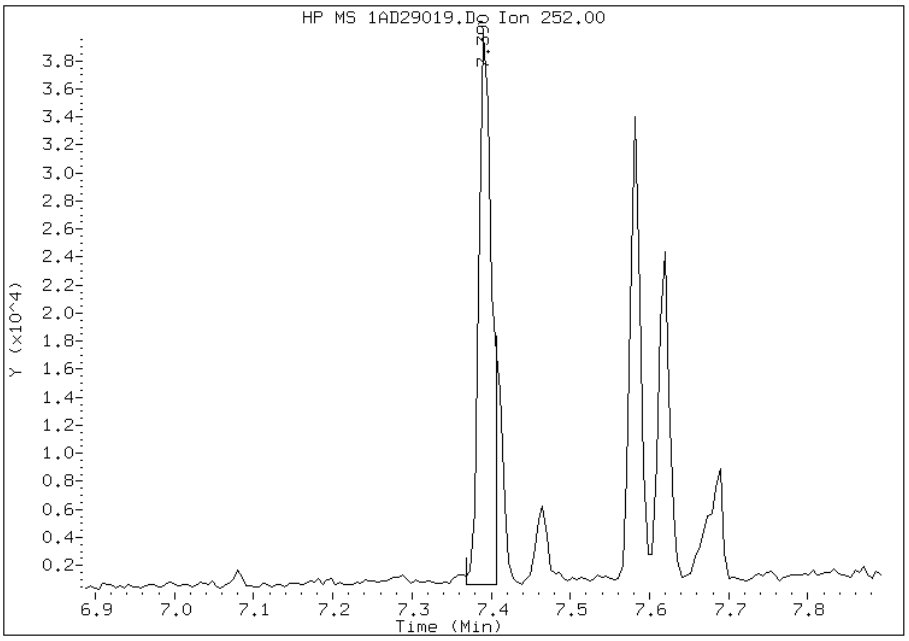
Manual Integration Results

RT: 7.39

Response: 44516

Amount: 1

Conc: 241



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:25
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29019.D
Inj. Date and Time: 29-APR-2013 16:39
Instrument ID: BSMA5973.i
Client ID: CV0718B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

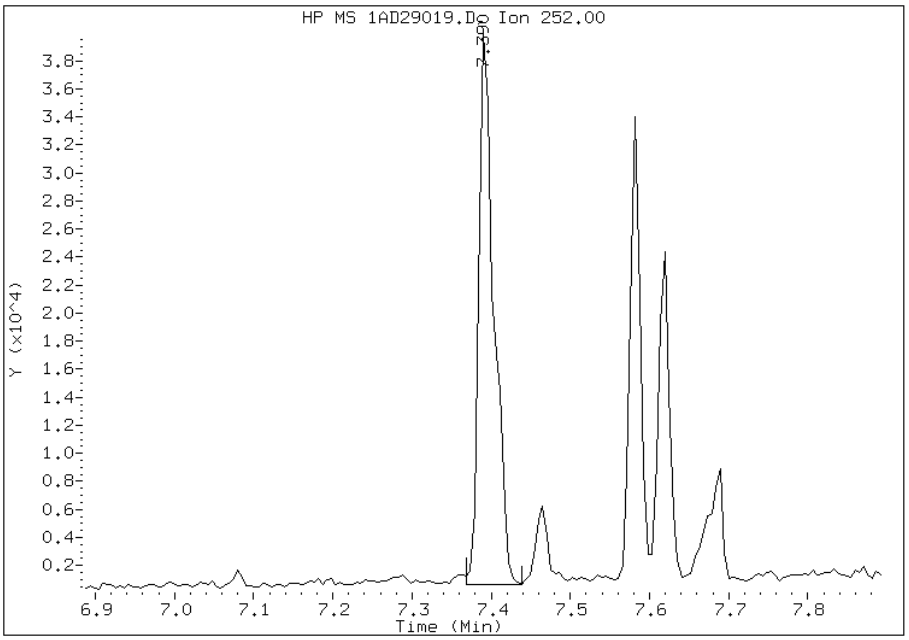
Processing Integration Results

RT: 7.39

Response: 51528

Amount: 1

Conc: 243



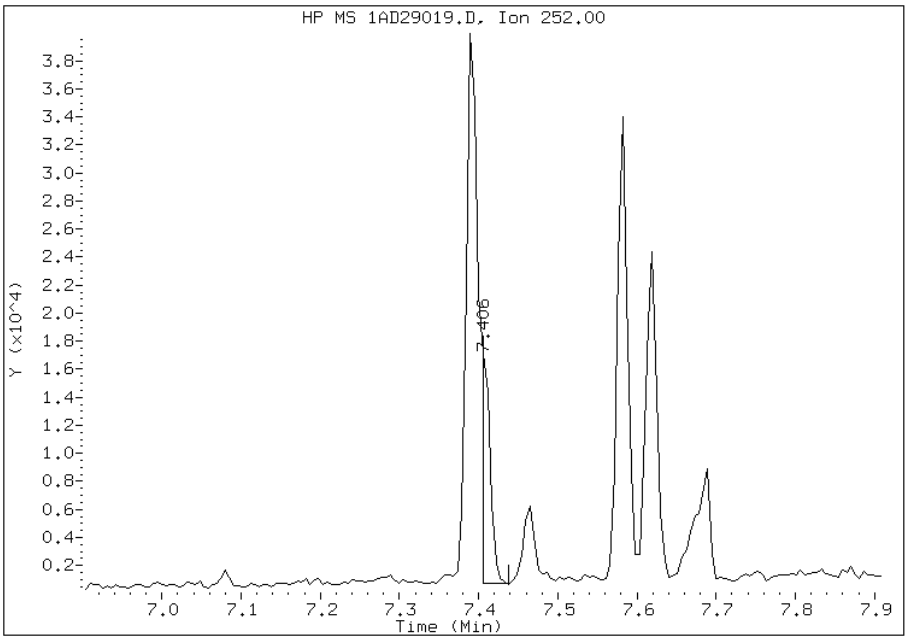
Manual Integration Results

RT: 7.41

Response: 12009

Amount: 0

Conc: 57



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:26
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: HP0157A-CS-SP | Lab Sample ID: 680-89695-17

Matrix: Solid | Lab File ID: 1AD29020.D

Analysis Method: 8270C LL | Date Collected: 04/23/2013 12:46

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 15.05(g) | Date Analyzed: 04/29/2013 16:54

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

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

% Moisture: 26.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136961 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	37	J	54	6.7
120-12-7	Anthracene	46		11	5.7
56-55-3	Benzo[a]anthracene	95		11	5.3
50-32-8	Benzo[a]pyrene	82		14	7.0
205-99-2	Benzo[b]fluoranthene	160		16	8.2
191-24-2	Benzo[g,h,i]perylene	74		27	5.9
207-08-9	Benzo[k]fluoranthene	35		11	4.8
218-01-9	Chrysene	120		12	6.1
53-70-3	Dibenz(a,h)anthracene	23	J	27	5.5
206-44-0	Fluoranthene	150		27	5.4
86-73-7	Fluorene	21	J	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	67		27	9.6
90-12-0	1-Methylnaphthalene	92		54	5.9
91-57-6	2-Methylnaphthalene	110		54	9.6
91-20-3	Naphthalene	230		54	5.9
85-01-8	Phenanthrene	220		11	5.3
129-00-0	Pyrene	140		27	5.0

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29020.D
Lab Smp Id: 680-89695-A-17-A Client Smp ID: HP0157A-CS-SP
Inj Date : 29-APR-2013 16:54
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89695-a-17-a
Misc Info : 680-89695-A-17-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 20
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	26.012	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.579	2.572	(1.000)	2053034	40.0000	
* 6 Acenaphthene-d10	164	3.610	3.603	(1.000)	1048413	40.0000	
* 10 Phenanthrene-d10	188	4.561	4.554	(1.000)	1726511	40.0000	
$ 14 o-Terphenyl	230	4.860	4.859	(1.066)	133409	4.72419	424.2550
* 18 Chrysene-d12	240	6.586	6.574	(1.000)	1809913	40.0000	
* 23 Perylene-d12	264	7.681	7.663	(1.000)	2163191	40.0000	
2 Naphthalene	128	2.590	2.583	(1.004)	132982	2.59115	232.6976
3 2-Methylnaphthalene	141	2.996	2.989	(1.162)	35985	1.22299	109.8302
4 1-Methylnaphthalene	142	3.049	3.048	(1.182)	33357	1.02325	91.8924
5 Acenaphthylene	152	3.519	3.513	(0.975)	25178	0.41092	36.9026
9 Fluorene	166	3.941	3.935	(1.092)	8864	0.22928	20.5905
11 Phenanthrene	178	4.577	4.570	(1.004)	120432	2.40799	216.2487
12 Anthracene	178	4.609	4.608	(1.011)	26461	0.50883	45.6956
13 Carbazole	167	4.743	4.736	(1.040)	12191	0.24301	21.8231

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.443	5.436	(1.193)	98428	1.70389	153.0171
16 Pyrene	202	5.608	5.601	(0.852)	104928	1.51961	136.4679
17 Benzo(a)anthracene	228	6.580	6.563	(0.999)	62445	1.05648	94.8773
19 Chrysene	228	6.602	6.595	(1.002)	83103	1.38587	124.4574
20 Benzo(b)fluoranthene	252	7.392	7.380	(0.962)	115731	1.76223	158.2563(M)
21 Benzo(k)fluoranthene	252	7.408	7.407	(0.965)	29366	0.38891	34.9263(QM)
22 Benzo(a)pyrene	252	7.622	7.610	(0.992)	59312	0.90784	81.5287
24 Indeno(1,2,3-cd)pyrene	276	8.439	8.427	(1.099)	46106	0.74741	67.1209(M)
25 Dibenzo(a,h)anthracene	278	8.461	8.454	(1.102)	14917	0.25989	23.3393
26 Benzo(g,h,i)perylene	276	8.659	8.646	(1.127)	56564	0.81929	73.5761

QC Flag Legend

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

Data File: 1AD29020.D

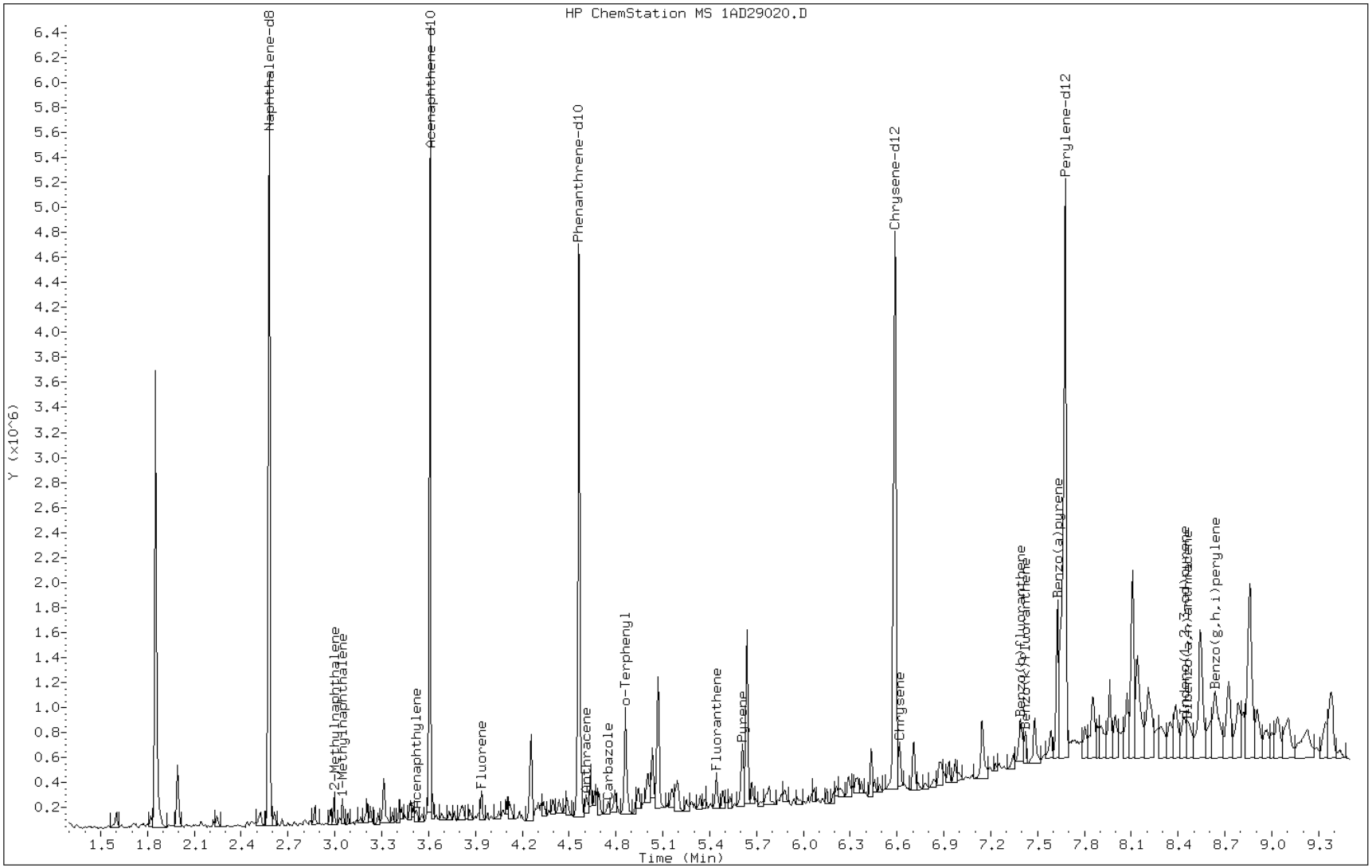
Date: 29-APR-2013 16:54

Client ID: HP0157A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a

Operator: SCC



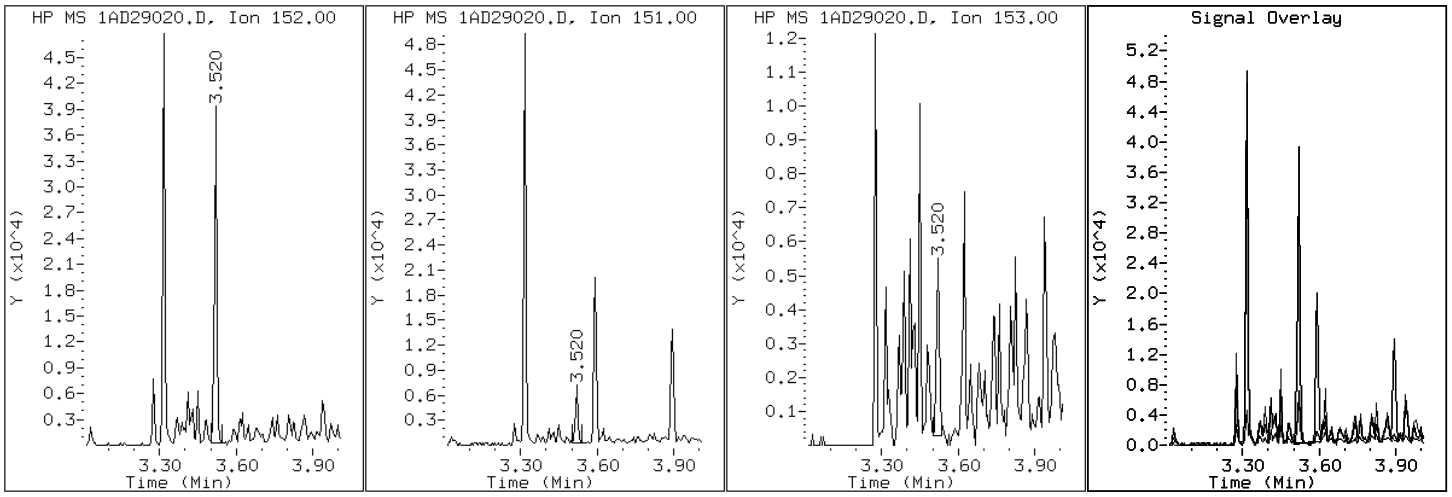
Data File: 1AD29020.D

Date: 29-APR-2013 16:54

Client ID: HP0157A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a Operator: SCC

5 Acenaphthylene



Data File: 1AD29020.D

Date: 29-APR-2013 16:54

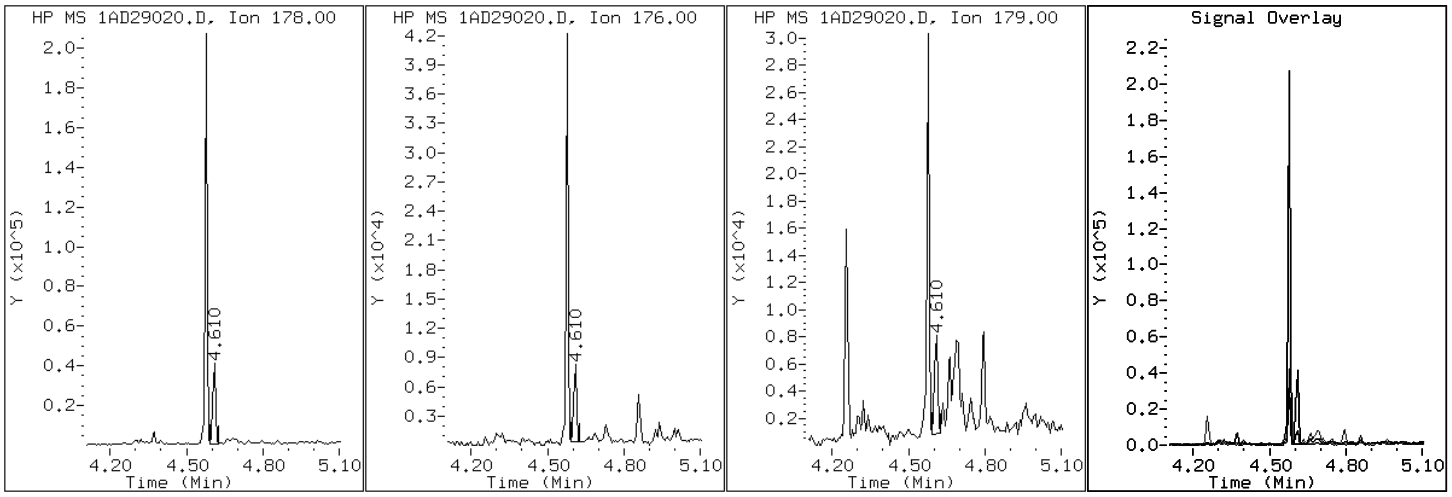
Client ID: HP0157A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a

Operator: SCC

12 Anthracene



Data File: 1AD29020.D

Date: 29-APR-2013 16:54

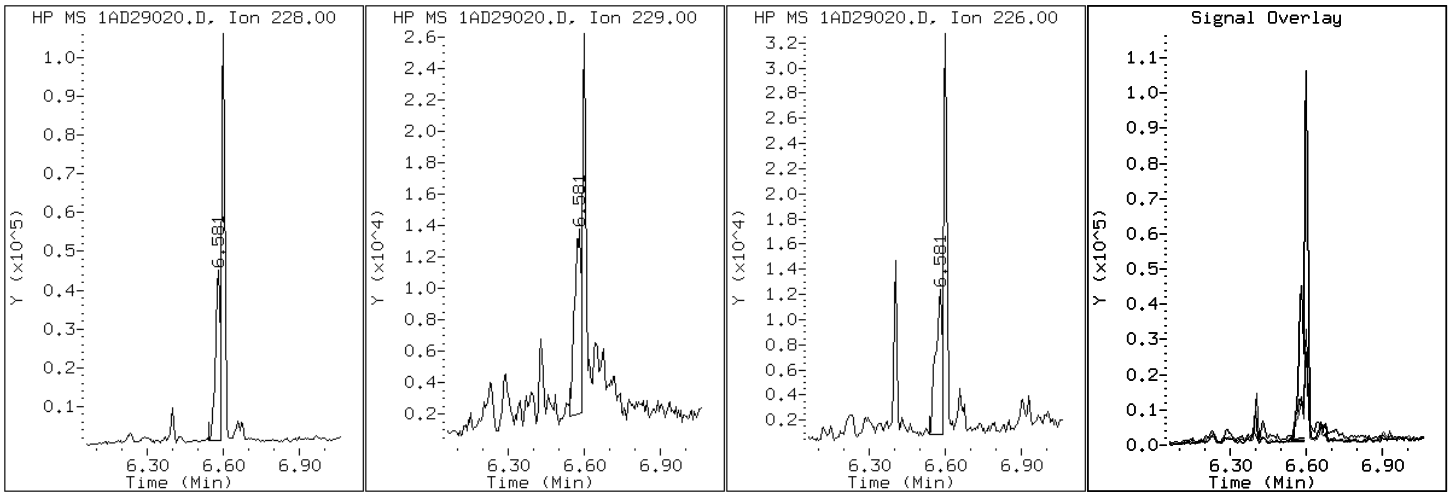
Client ID: HP0157A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a

Operator: SCC

17 Benzo(a)anthracene



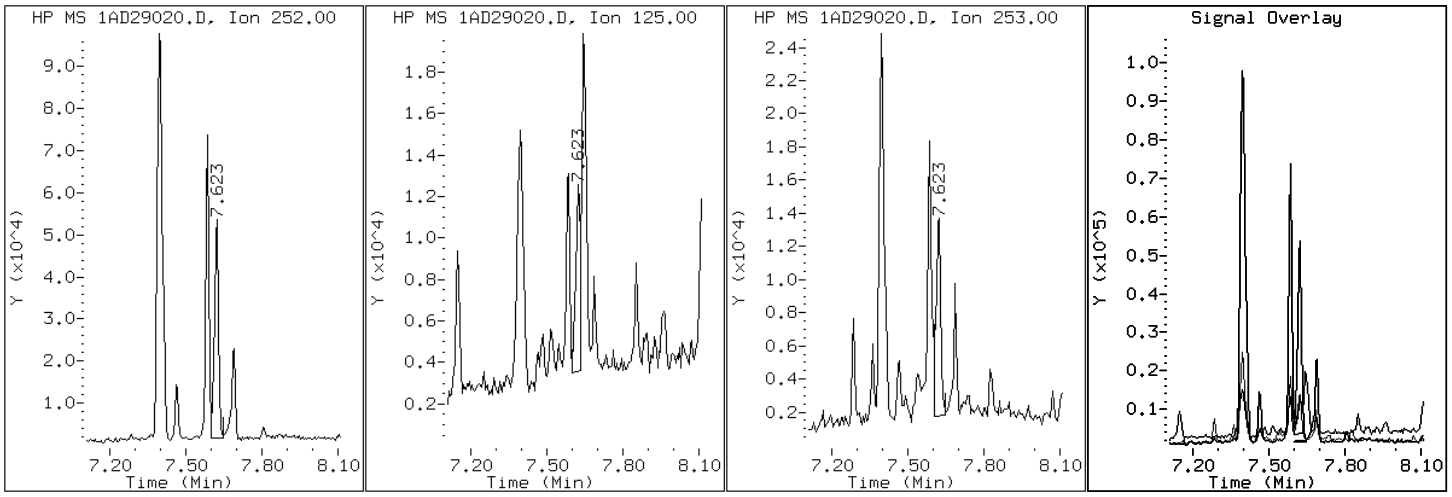
Data File: 1AD29020.D

Date: 29-APR-2013 16:54

Client ID: HP0157A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a Operator: SCC

22 Benzo(a)pyrene



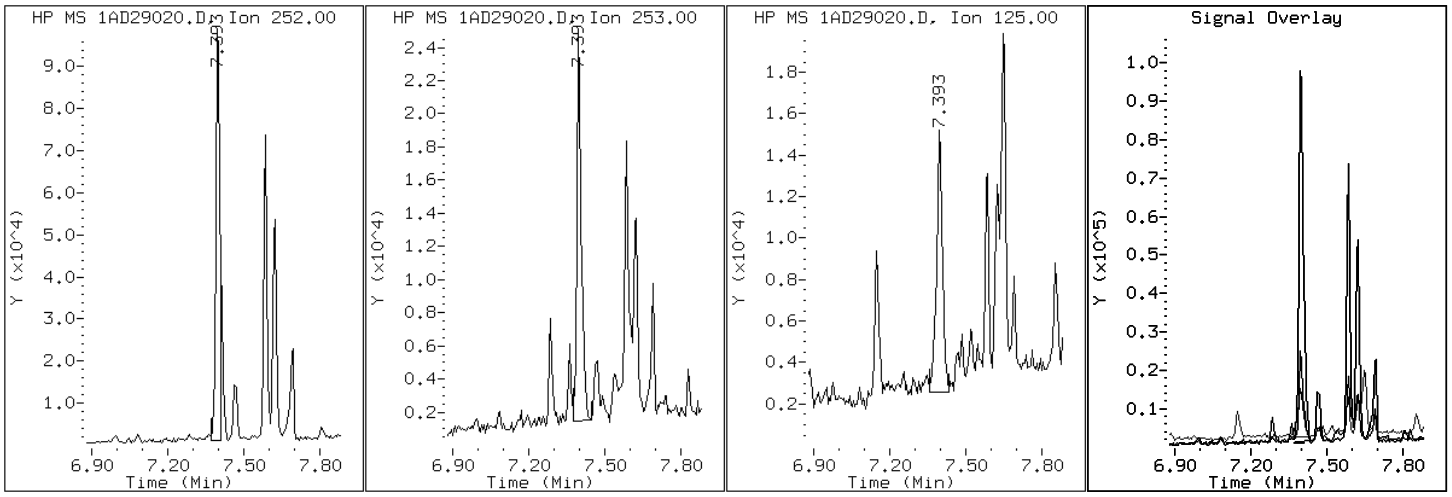
Data File: 1AD29020.D

Date: 29-APR-2013 16:54

Client ID: HP0157A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD29020.D

Date: 29-APR-2013 16:54

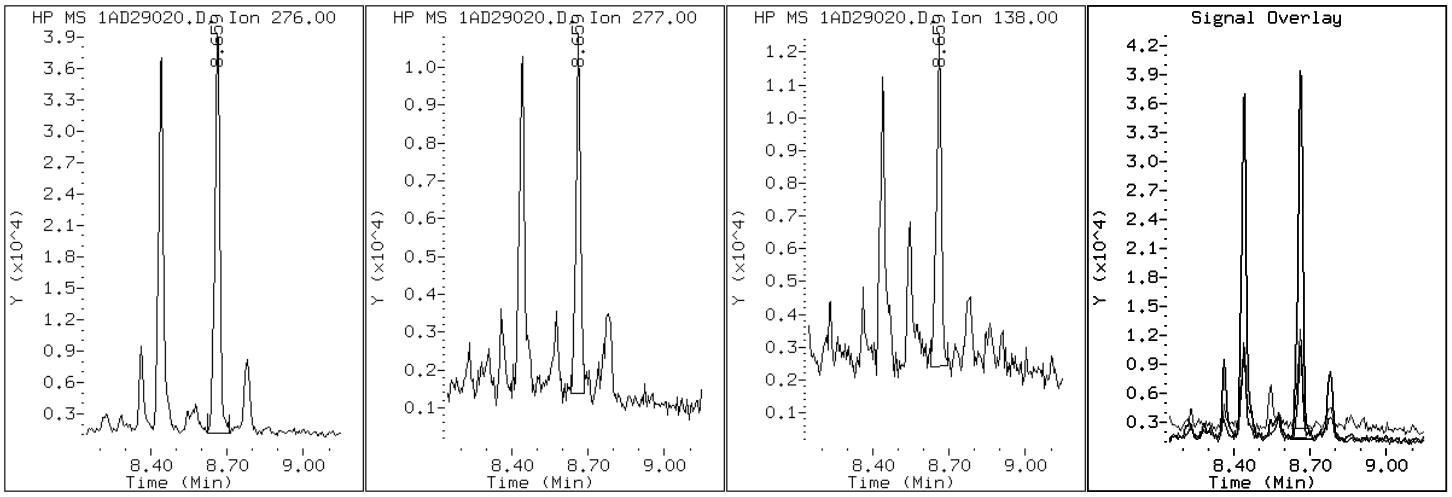
Client ID: HP0157A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a

Operator: SCC

26 Benzo(g,h,i)perylene



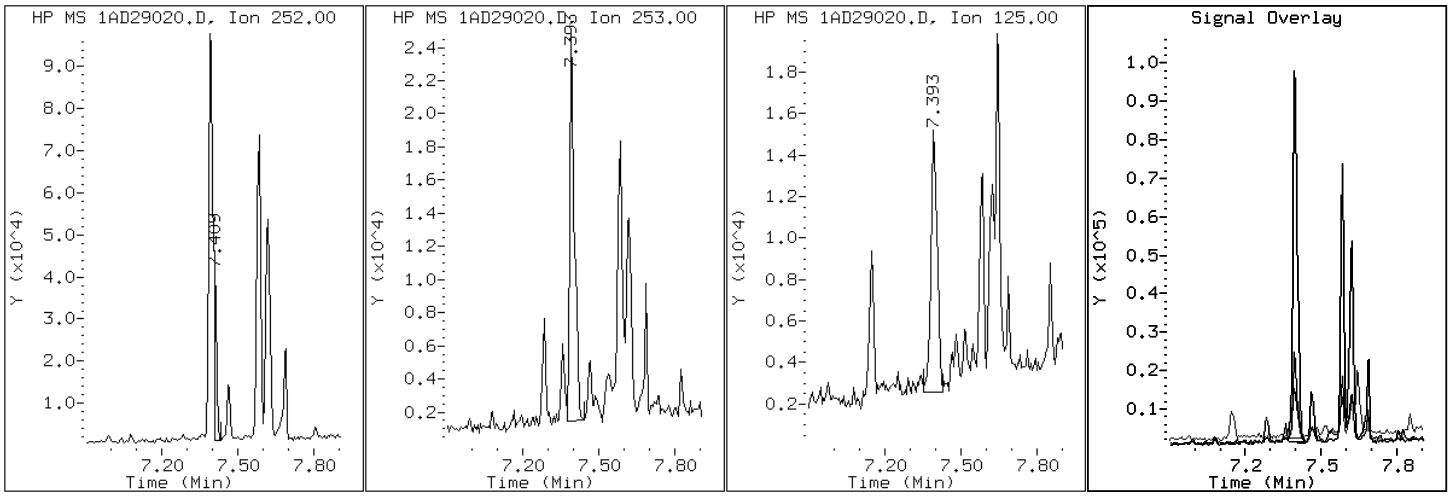
Data File: 1AD29020.D

Date: 29-APR-2013 16:54

Client ID: HP0157A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a Operator: SCC

21 Benzo(k)fluoranthene



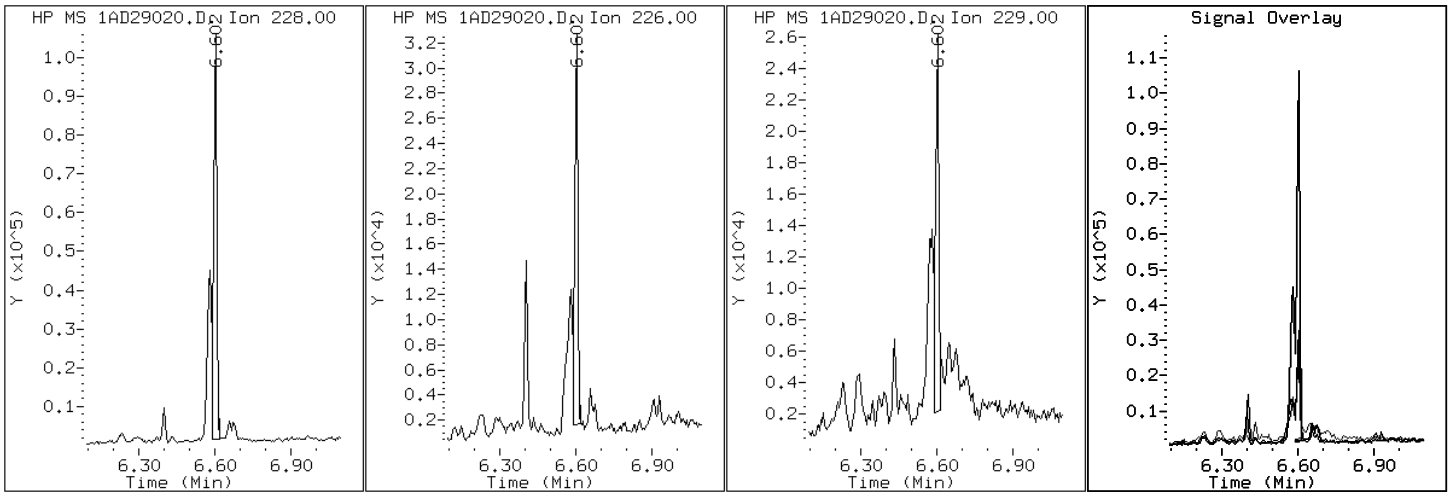
Data File: 1AD29020.D

Date: 29-APR-2013 16:54

Client ID: HP0157A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a Operator: SCC

19 Chrysene



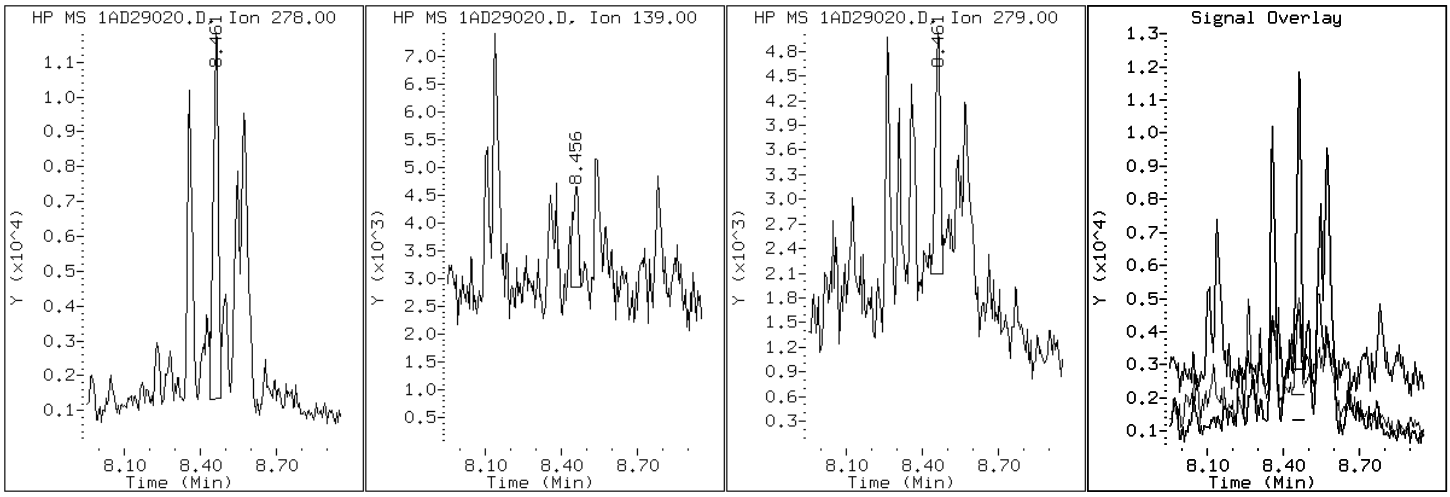
Data File: 1AD29020.D

Date: 29-APR-2013 16:54

Client ID: HP0157A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD29020.D

Date: 29-APR-2013 16:54

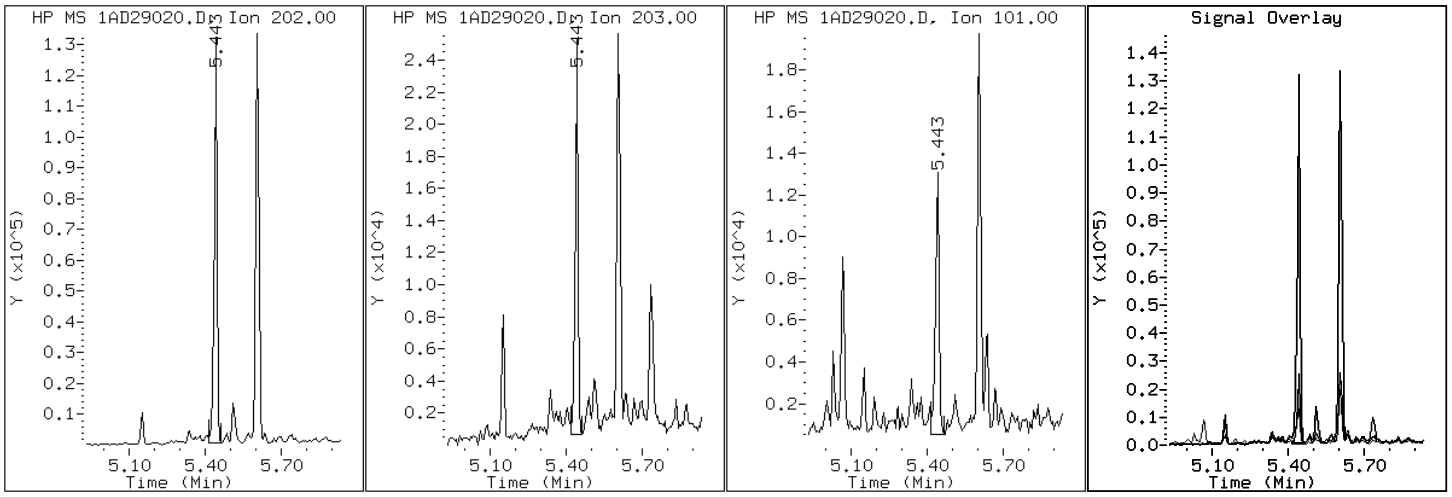
Client ID: HP0157A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a

Operator: SCC

15 Fluoranthene



Data File: 1AD29020.D

Date: 29-APR-2013 16:54

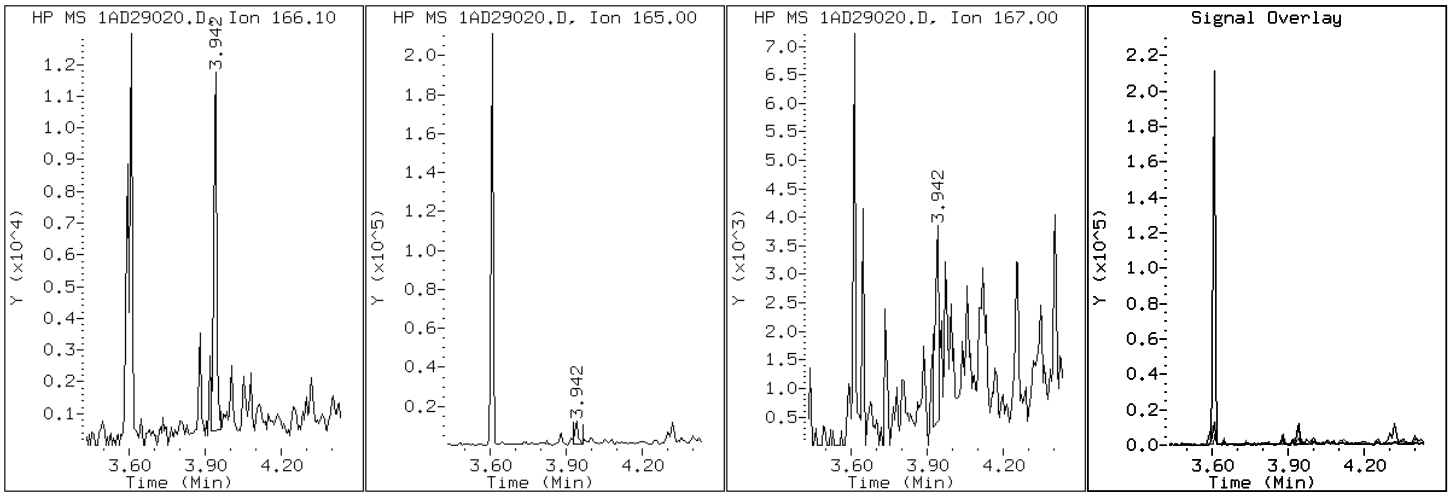
Client ID: HP0157A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a

Operator: SCC

9 Fluorene



Data File: 1AD29020.D

Date: 29-APR-2013 16:54

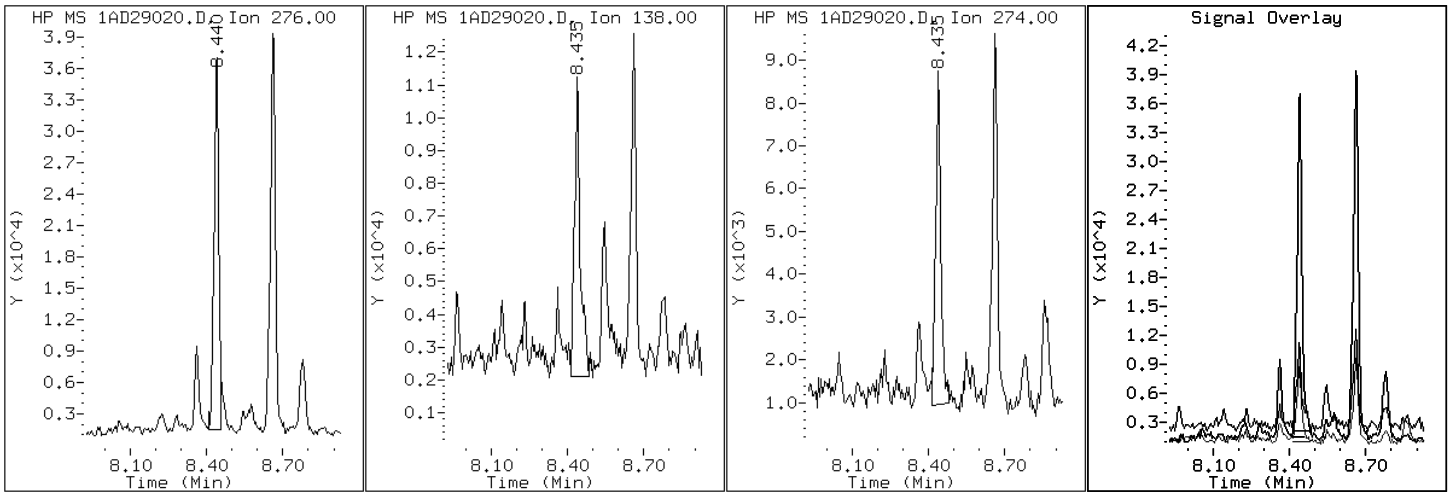
Client ID: HP0157A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a

Operator: SCC

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



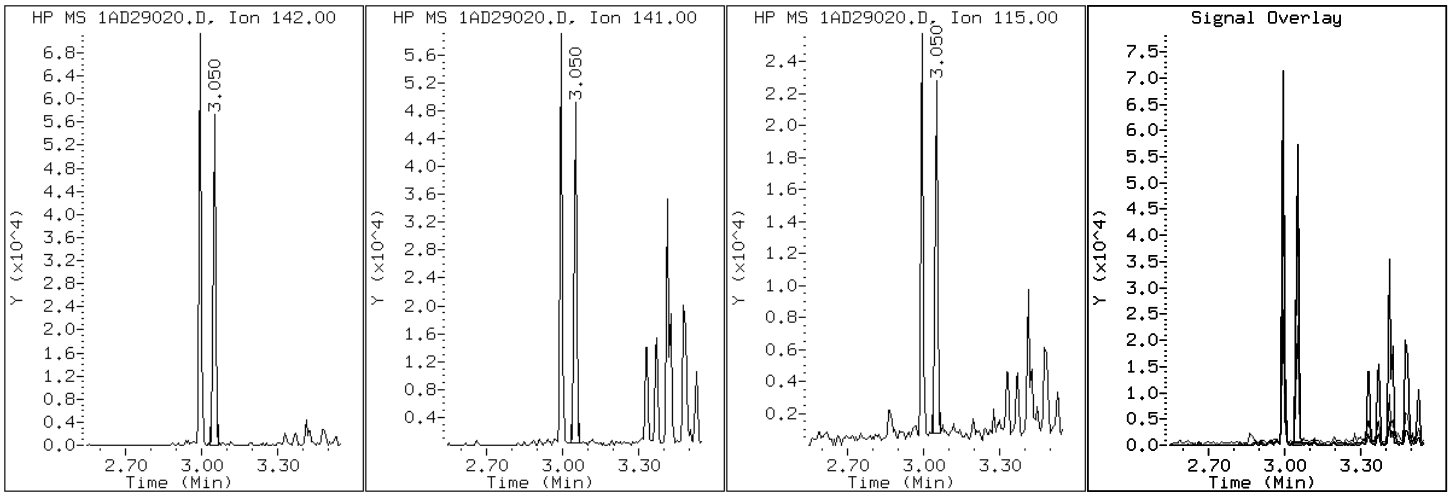
Data File: 1AD29020.D

Date: 29-APR-2013 16:54

Client ID: HP0157A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a Operator: SCC

4 1-Methylnaphthalene



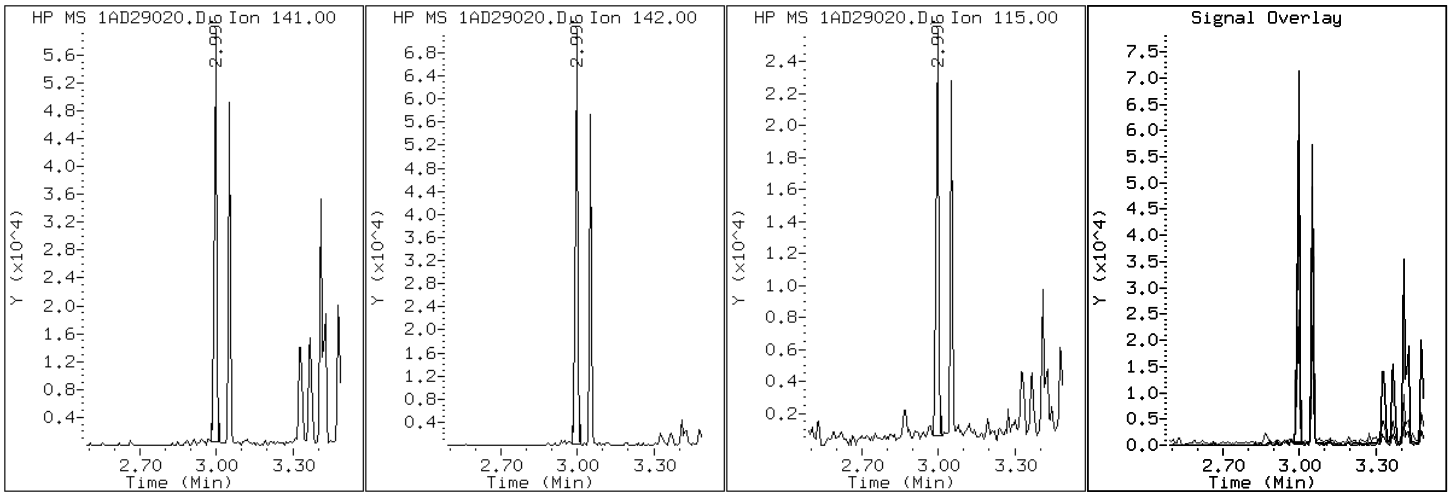
Data File: 1AD29020.D

Date: 29-APR-2013 16:54

Client ID: HP0157A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD29020.D

Date: 29-APR-2013 16:54

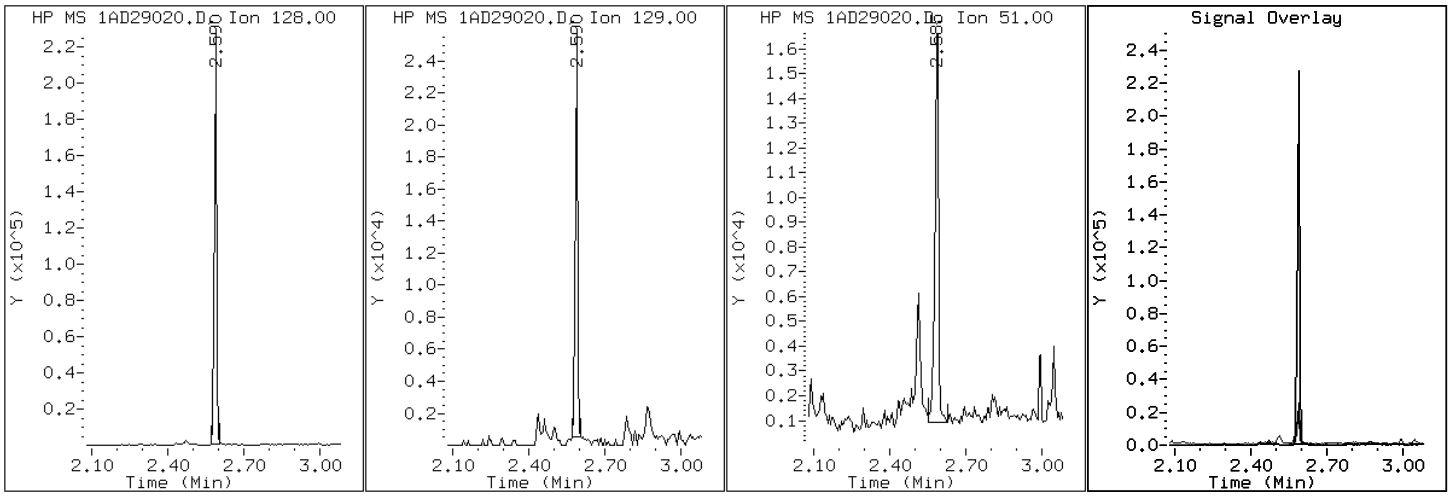
Client ID: HP0157A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a

Operator: SCC

2 Naphthalene



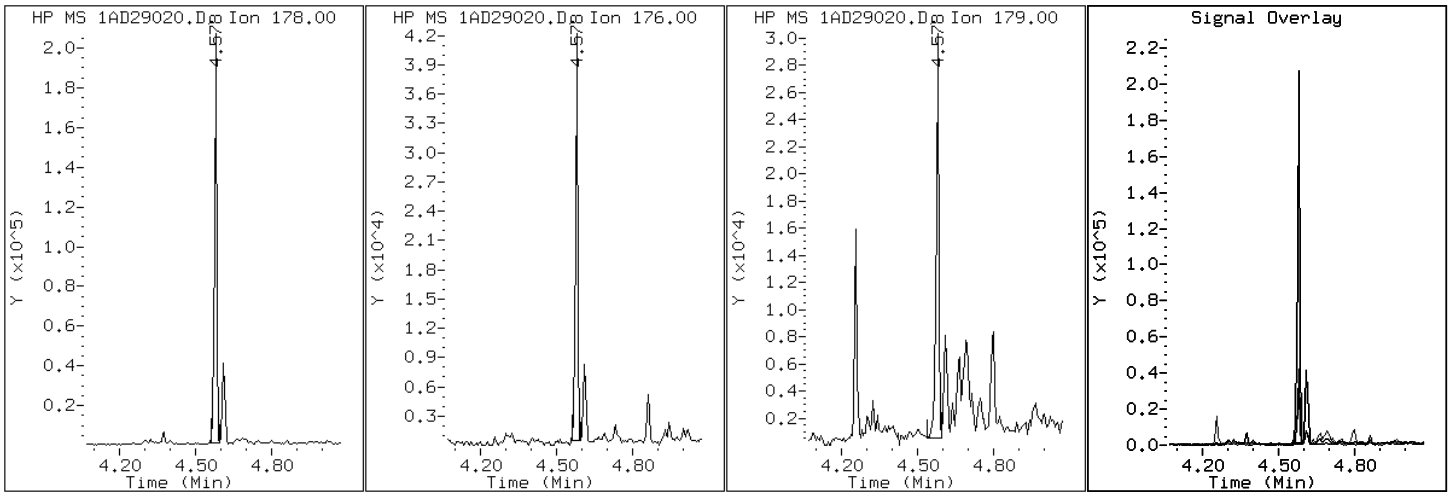
Data File: 1AD29020.D

Date: 29-APR-2013 16:54

Client ID: HP0157A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a Operator: SCC

11 Phenanthrene



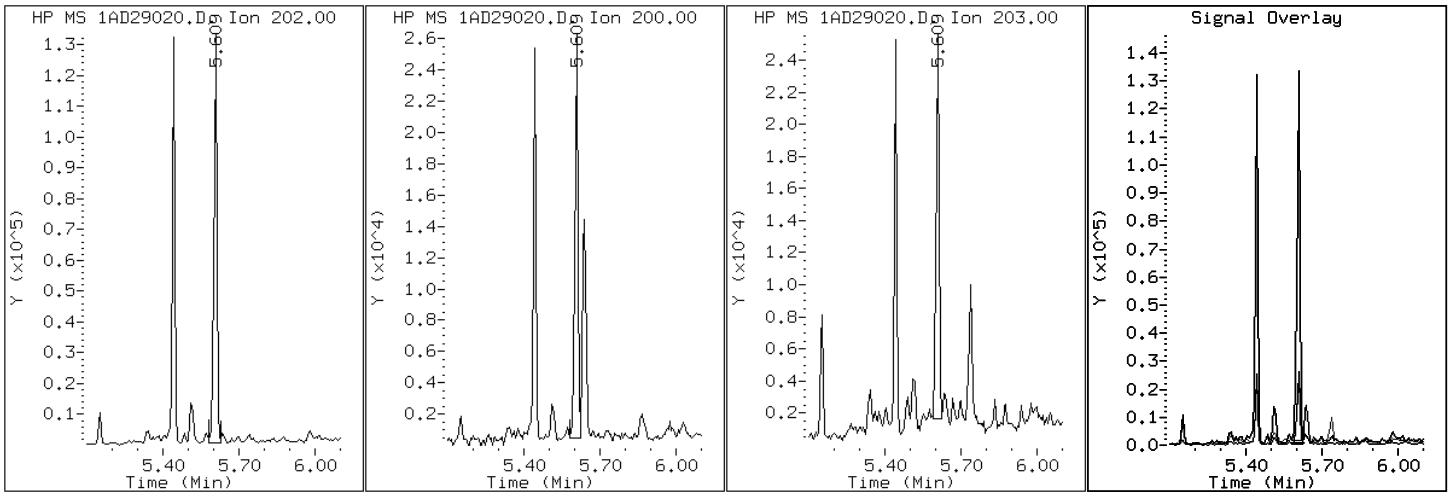
Data File: 1AD29020.D

Date: 29-APR-2013 16:54

Client ID: HP0157A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-17-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD29020.D
Inj. Date and Time: 29-APR-2013 16:54
Instrument ID: BSMA5973.i
Client ID: HP0157A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

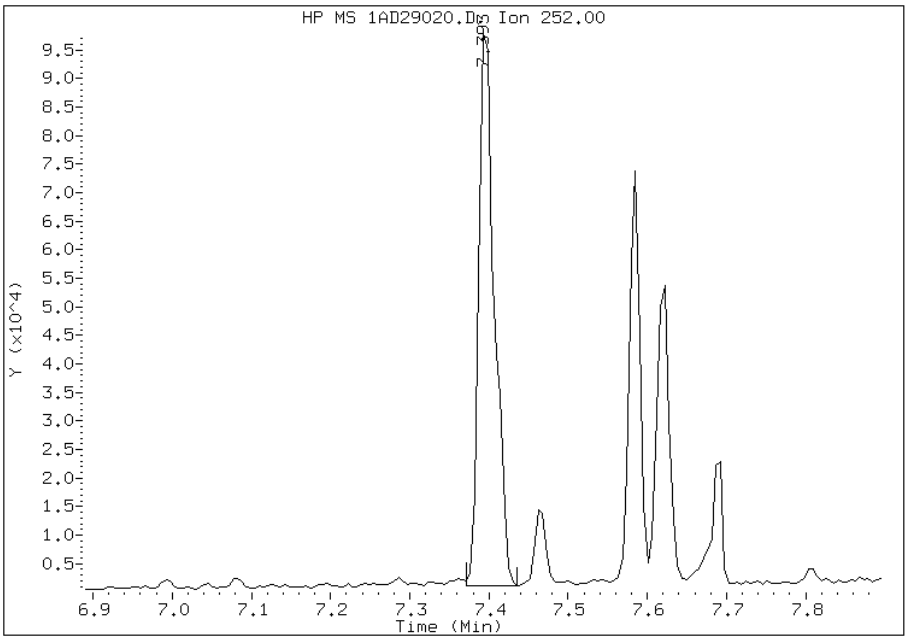
Processing Integration Results

RT: 7.39

Response: 131958

Amount: 2

Conc: 180



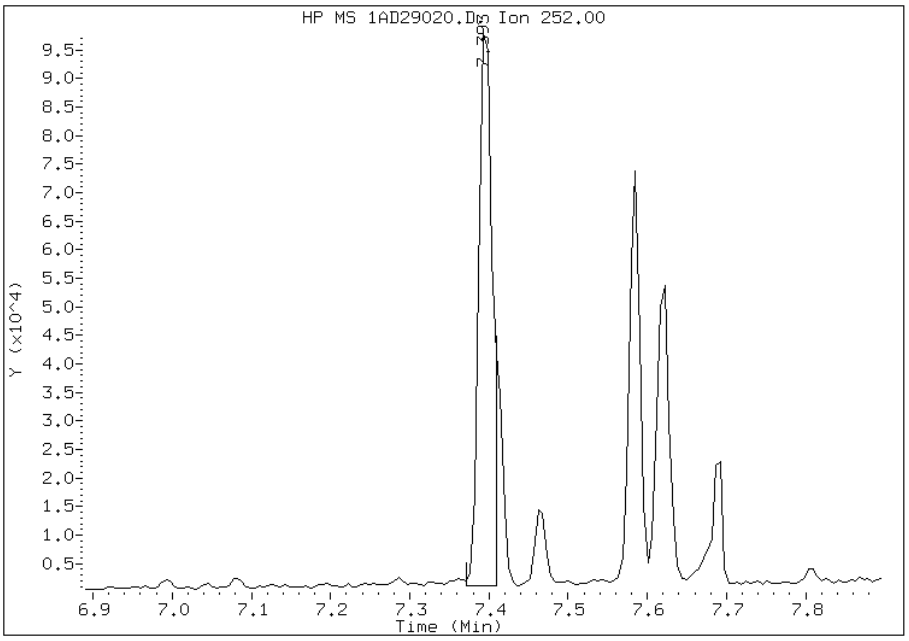
Manual Integration Results

RT: 7.39

Response: 115731

Amount: 2

Conc: 158



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29020.D
Inj. Date and Time: 29-APR-2013 16:54
Instrument ID: BSMA5973.i
Client ID: HP0157A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

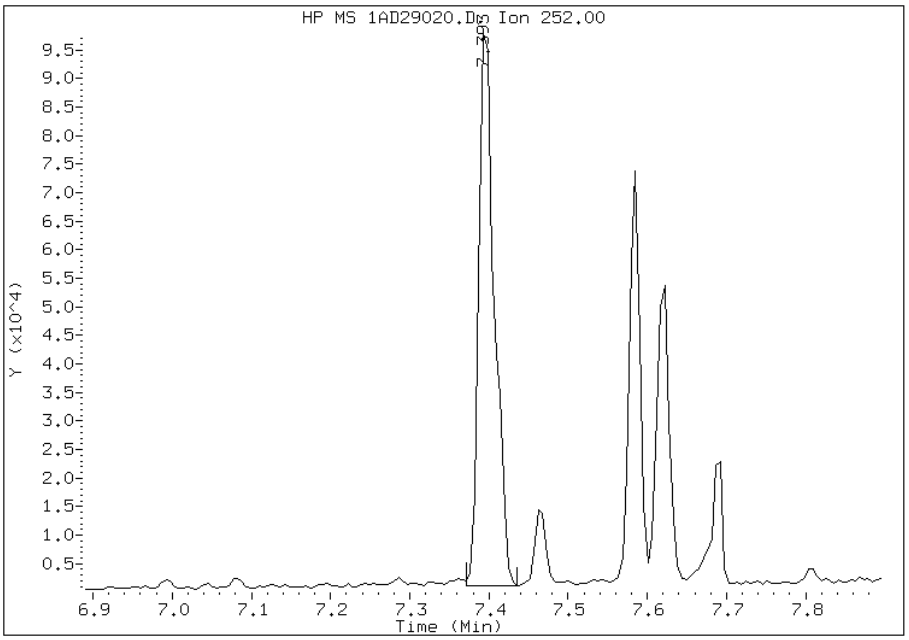
Processing Integration Results

RT: 7.39

Response: 131958

Amount: 2

Conc: 157



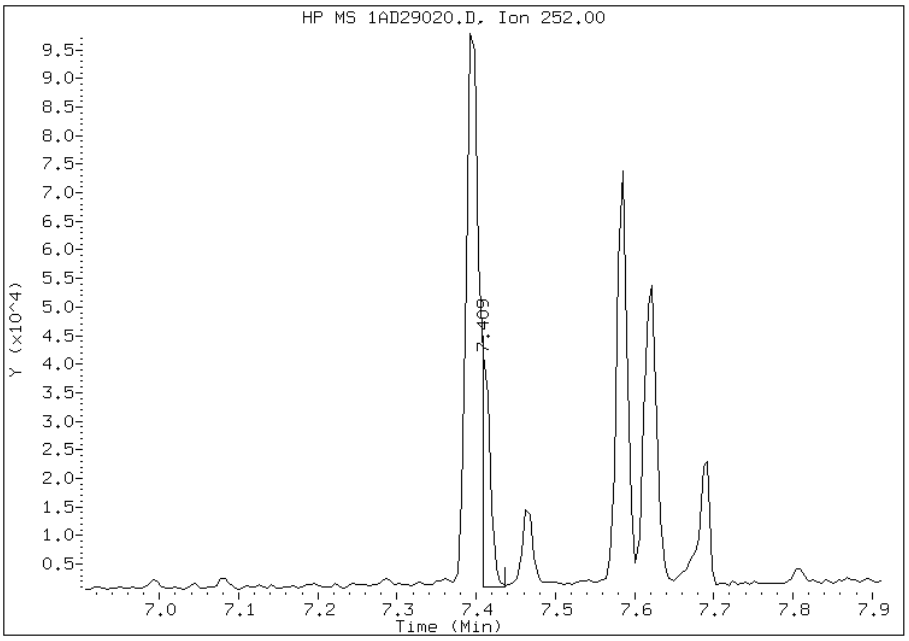
Manual Integration Results

RT: 7.41

Response: 29366

Amount: 0

Conc: 35



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29020.D
Inj. Date and Time: 29-APR-2013 16:54
Instrument ID: BSMA5973.i
Client ID: HP0157A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

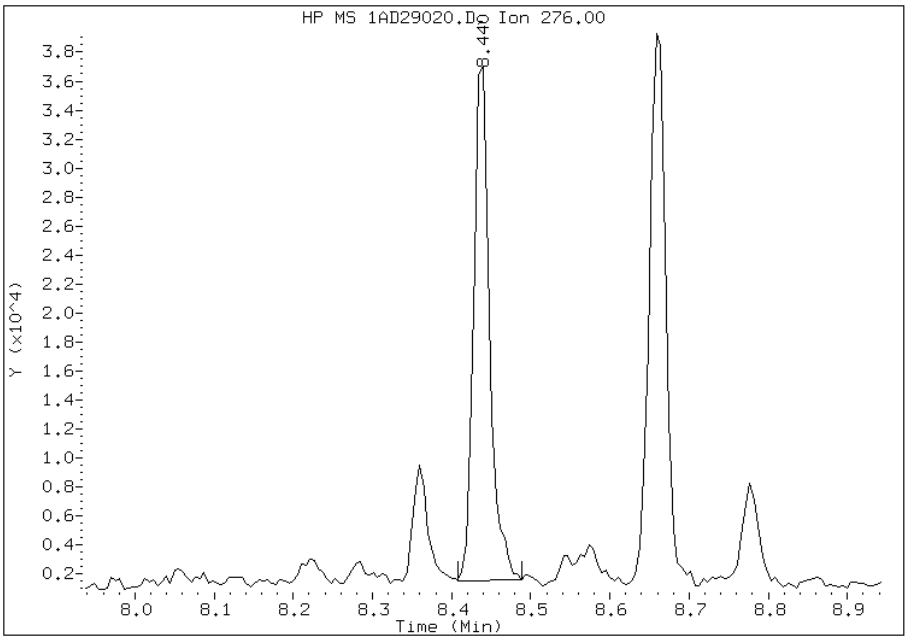
Processing Integration Results

RT: 8.44

Response: 48972

Amount: 1

Conc: 71



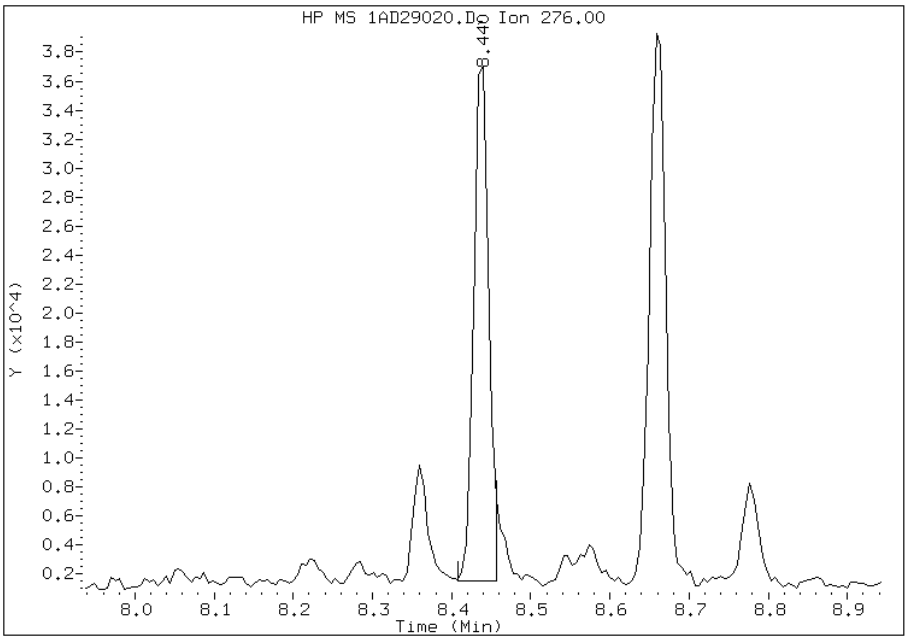
Manual Integration Results

RT: 8.44

Response: 46106

Amount: 1

Conc: 67



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV0575A-CS-SP | Lab Sample ID: 680-89695-18

Matrix: Solid | Lab File ID: 1AD29021.D

Analysis Method: 8270C LL | Date Collected: 04/23/2013 13:22

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 15.30(g) | Date Analyzed: 04/29/2013 17:09

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

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

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

Analysis Batch No.: 136961 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	83		49	6.2
120-12-7	Anthracene	170		10	5.2
56-55-3	Benzo[a]anthracene	330		9.9	4.8
50-32-8	Benzo[a]pyrene	320		13	6.4
205-99-2	Benzo[b]fluoranthene	610		15	7.5
191-24-2	Benzo[g,h,i]perylene	230		25	5.4
207-08-9	Benzo[k]fluoranthene	150		9.9	4.4
218-01-9	Chrysene	400		11	5.5
53-70-3	Dibenz(a,h)anthracene	84		25	5.1
206-44-0	Fluoranthene	540		25	4.9
86-73-7	Fluorene	28		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	260		25	8.8
90-12-0	1-Methylnaphthalene	93		49	5.4
91-57-6	2-Methylnaphthalene	130		49	8.8
91-20-3	Naphthalene	130		49	5.4
85-01-8	Phenanthrene	330		9.9	4.8
129-00-0	Pyrene	450		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29021.D
Lab Smp Id: 680-89695-A-18-A Client Smp ID: CV0575A-CS-SP
Inj Date : 29-APR-2013 17:09
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89695-a-18-a
Misc Info : 680-89695-A-18-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 21
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	15.300	Weight Extracted
M	20.482	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.582	2.572	(1.000)	1832738	40.0000	
* 6 Acenaphthene-d10	164	3.613	3.603	(1.000)	911069	40.0000	
* 10 Phenanthrene-d10	188	4.564	4.554	(1.000)	1457841	40.0000	
$ 14 o-Terphenyl	230	4.863	4.859	(1.066)	112547	4.71993	387.9521
* 18 Chrysene-d12	240	6.594	6.574	(1.000)	1585207	40.0000	
* 23 Perylene-d12	264	7.683	7.663	(1.000)	1962640	40.0000	
2 Naphthalene	128	2.587	2.583	(1.002)	70561	1.54014	126.5909
3 2-Methylnaphthalene	141	2.993	2.989	(1.159)	40384	1.53747	126.3713
4 1-Methylnaphthalene	142	3.052	3.048	(1.182)	32753	1.12549	92.5087
5 Acenaphthylene	152	3.522	3.513	(0.975)	53523	1.00521	82.6230
9 Fluorene	166	3.939	3.935	(1.090)	11634	0.34630	28.4637
11 Phenanthrene	178	4.580	4.570	(1.004)	170340	4.03355	331.5360
12 Anthracene	178	4.612	4.608	(1.011)	90040	2.05052	168.5411
13 Carbazole	167	4.745	4.736	(1.040)	30637	0.72324	59.4466

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.445	5.436	(1.193)	317961	6.51861	535.7935
16 Pyrene	202	5.611	5.601	(0.851)	328942	5.43915	447.0678
17 Benzo(a)anthracene	228	6.583	6.563	(0.998)	208628	4.03004	331.2471
19 Chrysene	228	6.604	6.595	(1.002)	254225	4.84055	397.8663
20 Benzo(b)fluoranthene	252	7.406	7.380	(0.964)	444254	7.45586	612.8302(M)
21 Benzo(k)fluoranthene	252	7.416	7.407	(0.965)	128659	1.87804	154.3641(QM)
22 Benzo(a)pyrene	252	7.625	7.610	(0.992)	231160	3.89974	320.5371
24 Indeno(1,2,3-cd)pyrene	276	8.453	8.427	(1.100)	175612	3.13769	257.9006(M)
25 Dibenzo(a,h)anthracene	278	8.474	8.454	(1.103)	53198	1.02155	83.9653
26 Benzo(g,h,i)perylene	276	8.677	8.646	(1.129)	177220	2.82920	232.5449

QC Flag Legend

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

Data File: 1AD29021.D

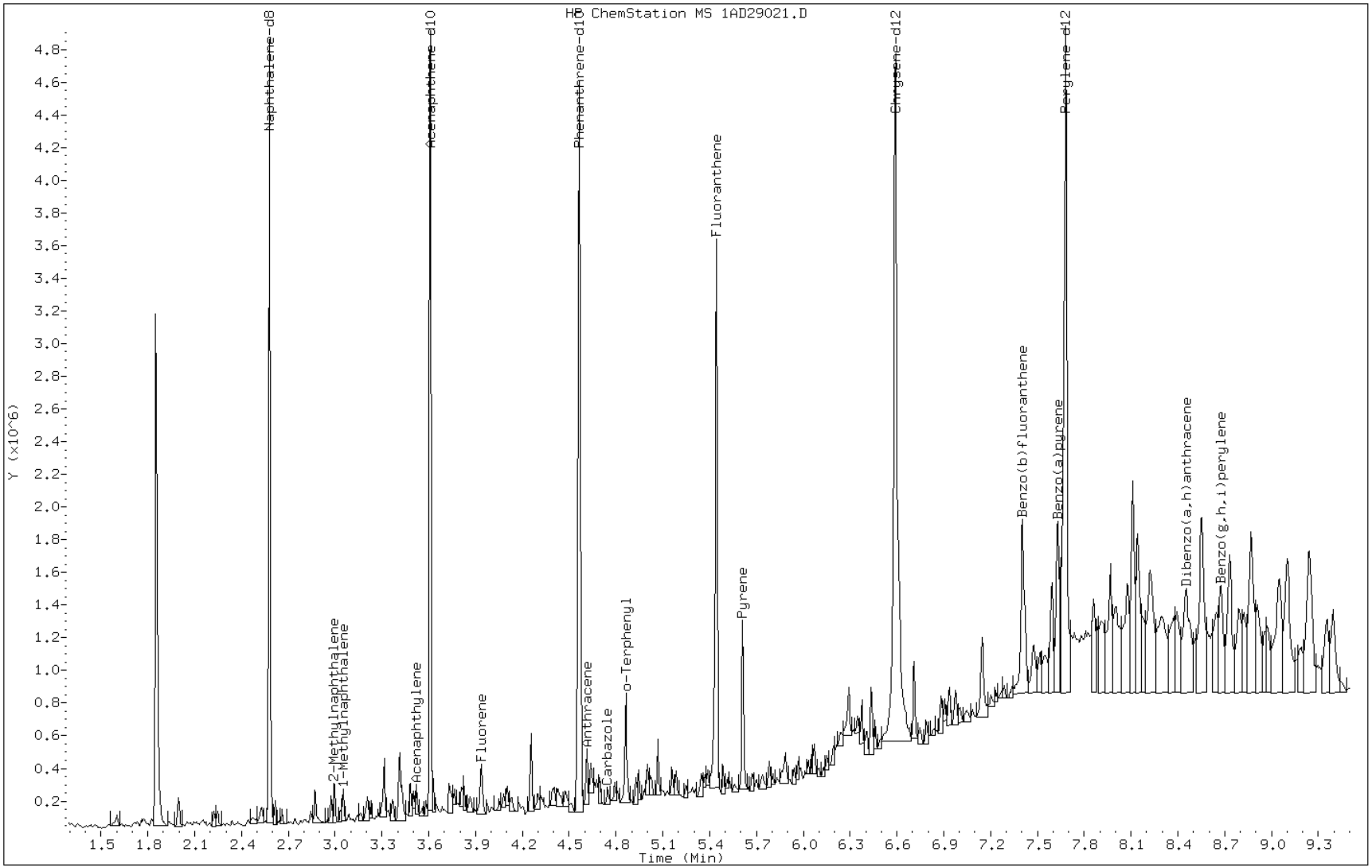
Date: 29-APR-2013 17:09

Client ID: CV0575A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a

Operator: SCC



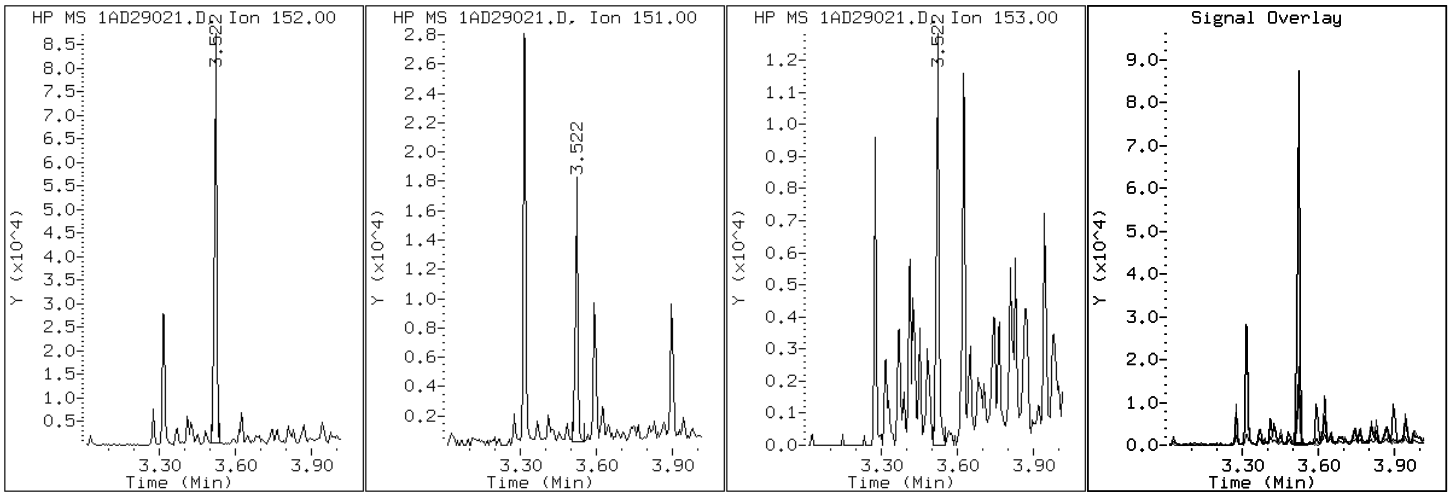
Data File: 1AD29021.D

Date: 29-APR-2013 17:09

Client ID: CV0575A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a Operator: SCC

5 Acenaphthylene



Data File: 1AD29021.D

Date: 29-APR-2013 17:09

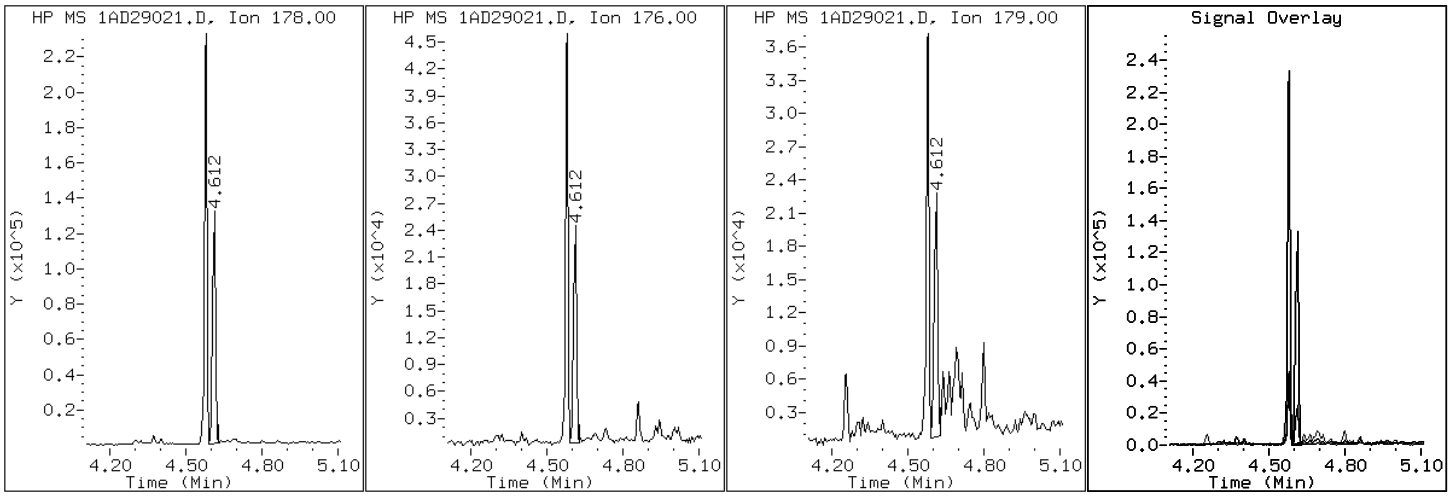
Client ID: CV0575A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a

Operator: SCC

12 Anthracene



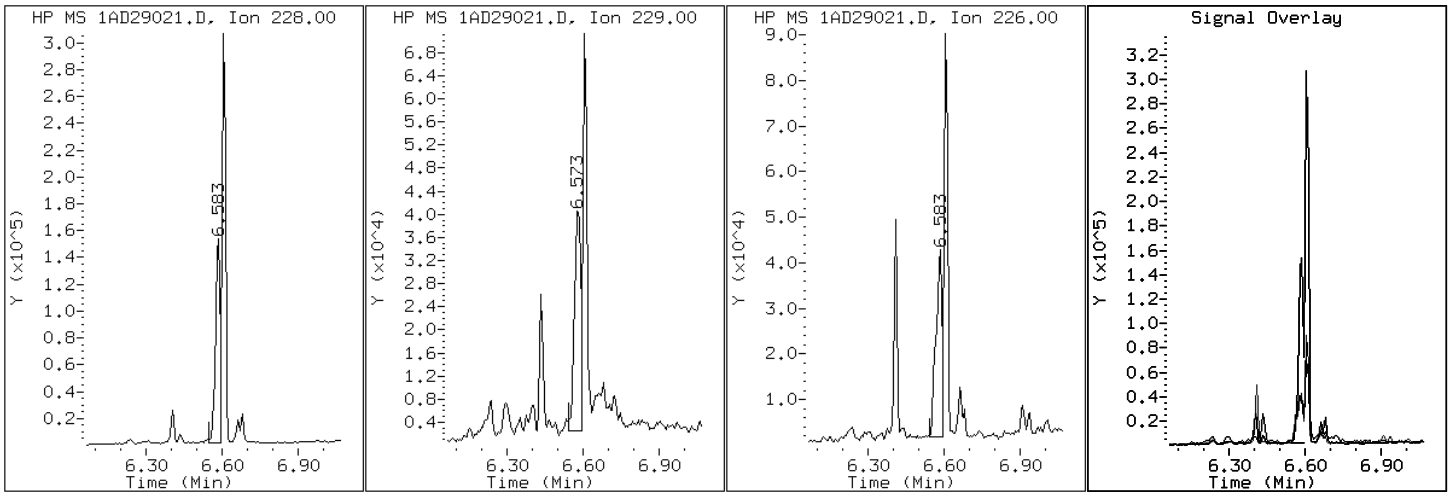
Data File: 1AD29021.D

Date: 29-APR-2013 17:09

Client ID: CV0575A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a Operator: SCC

17 Benzo(a)anthracene



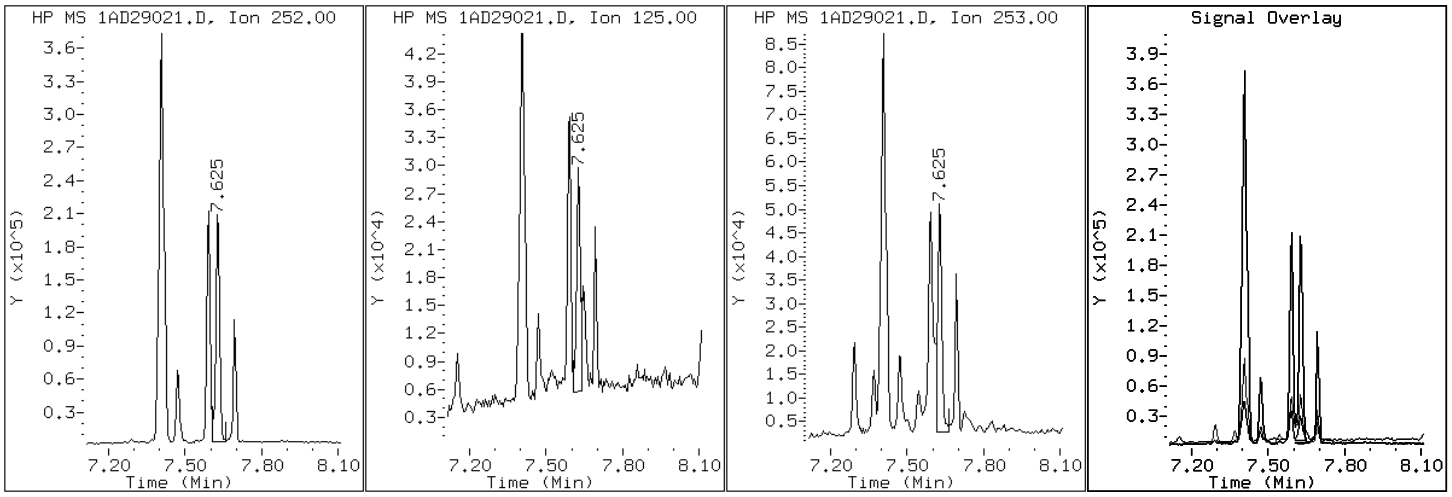
Data File: 1AD29021.D

Date: 29-APR-2013 17:09

Client ID: CV0575A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD29021.D

Date: 29-APR-2013 17:09

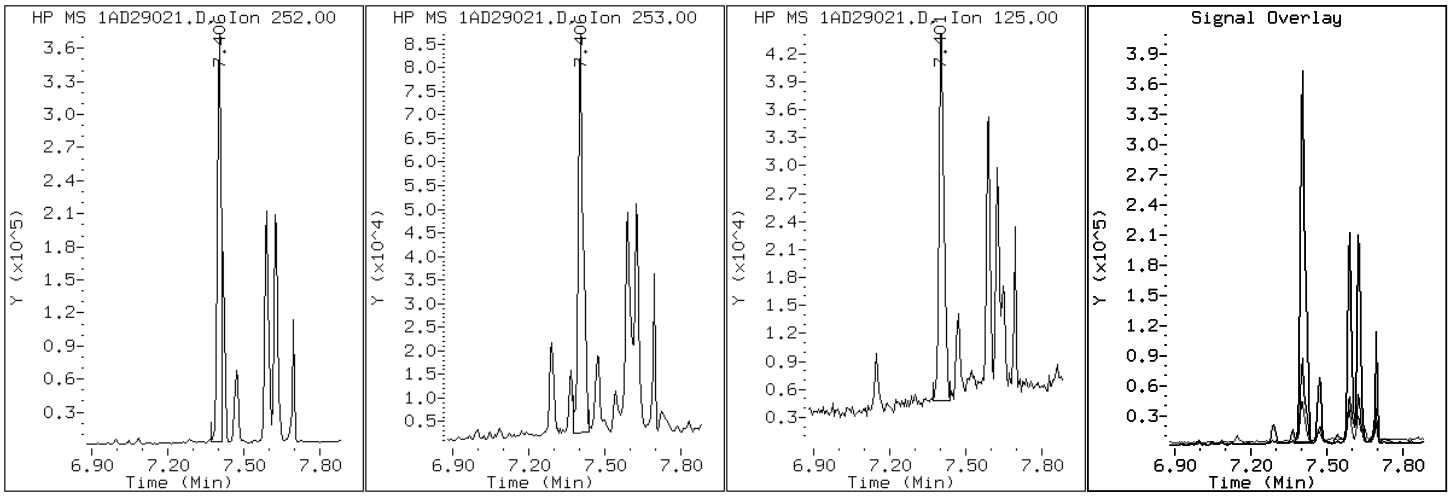
Client ID: CV0575A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a

Operator: SCC

20 Benzo(b)fluoranthene



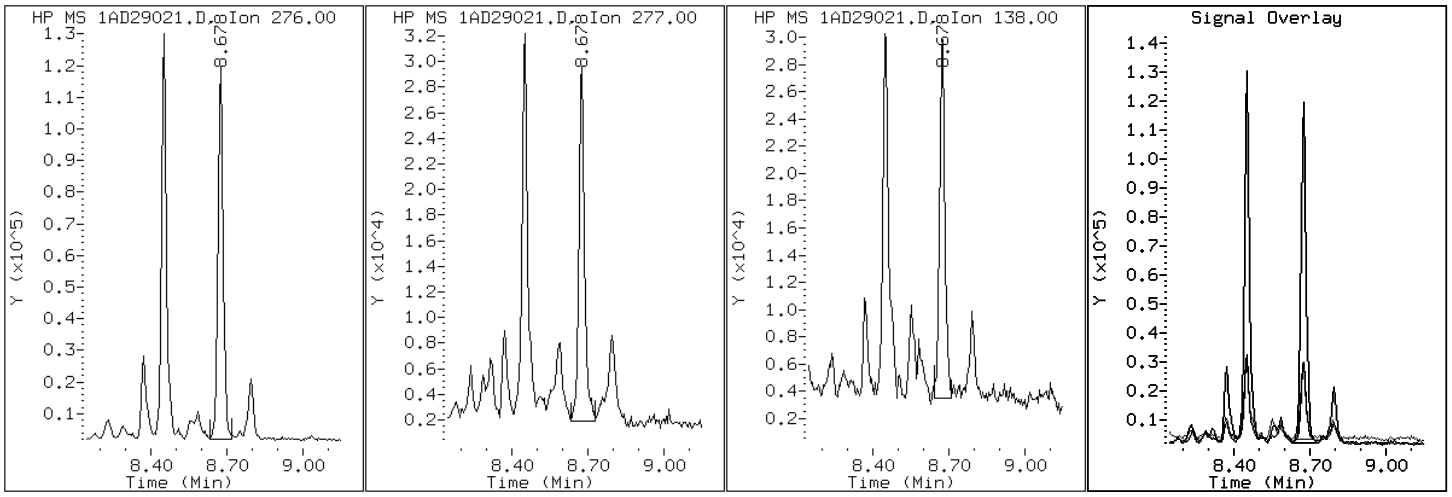
Data File: 1AD29021.D

Date: 29-APR-2013 17:09

Client ID: CV0575A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a Operator: SCC

26 Benzo(g,h,i)perylene



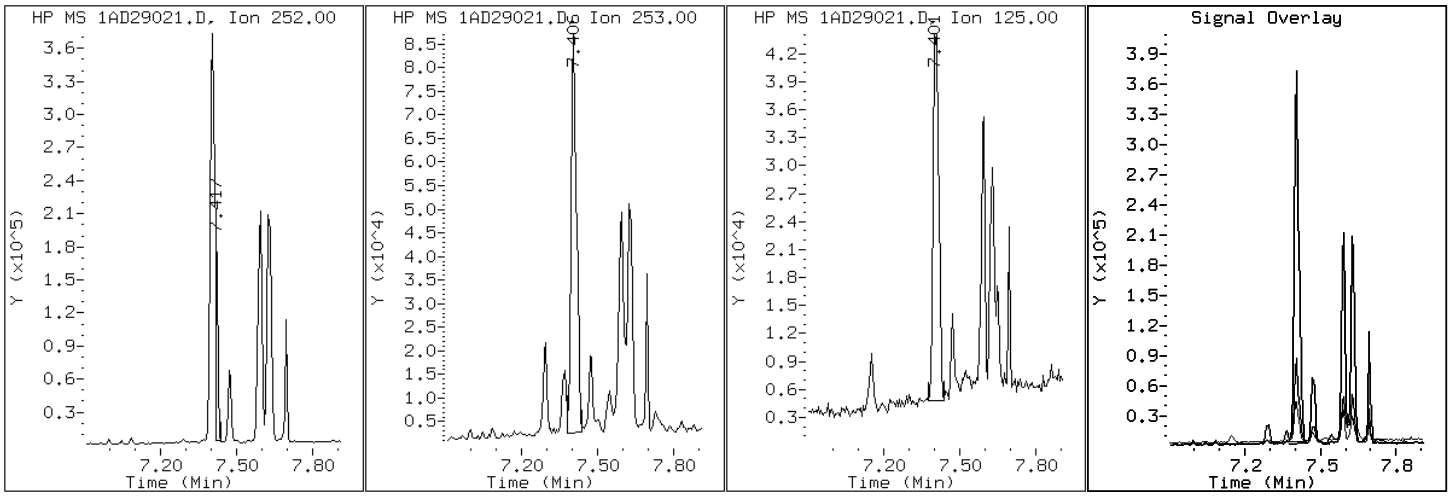
Data File: 1AD29021.D

Date: 29-APR-2013 17:09

Client ID: CV0575A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a Operator: SCC

21 Benzo(k)fluoranthene



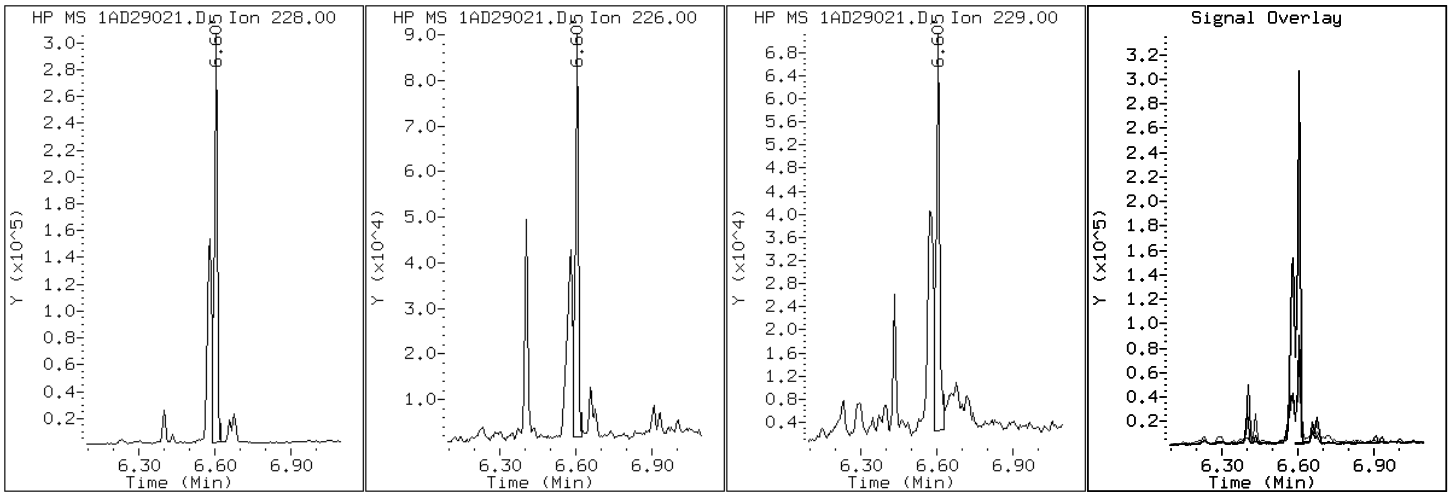
Data File: 1AD29021.D

Date: 29-APR-2013 17:09

Client ID: CV0575A-CS-SP | Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a | Operator: SCC

19 Chrysene



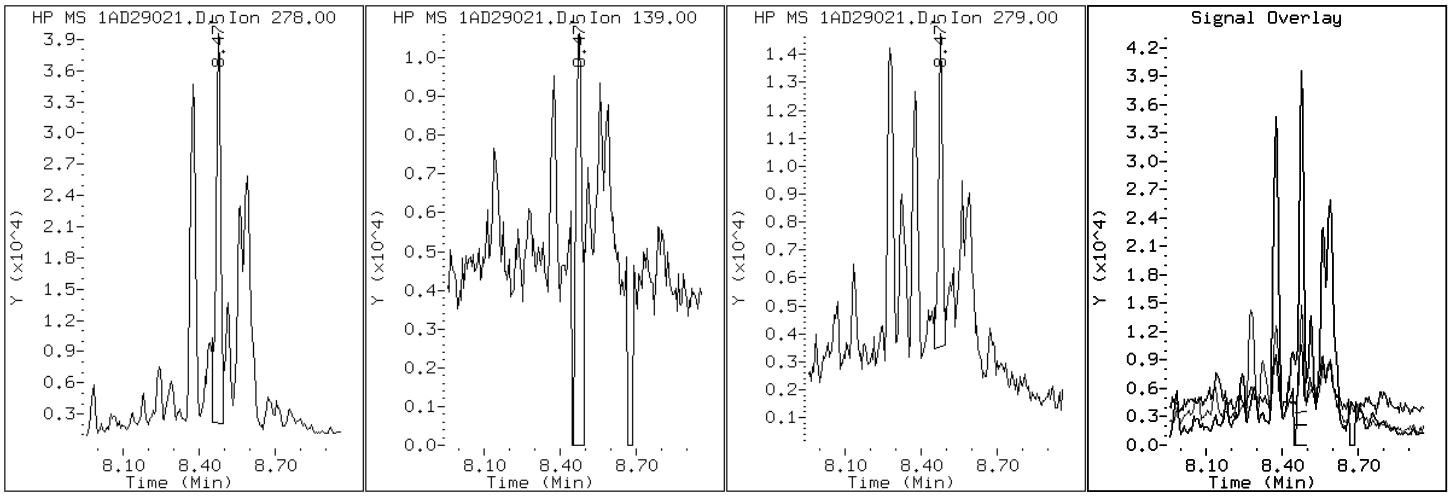
Data File: 1AD29021.D

Date: 29-APR-2013 17:09

Client ID: CV0575A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a Operator: SCC

25 Dibenzo(a,h)anthracene



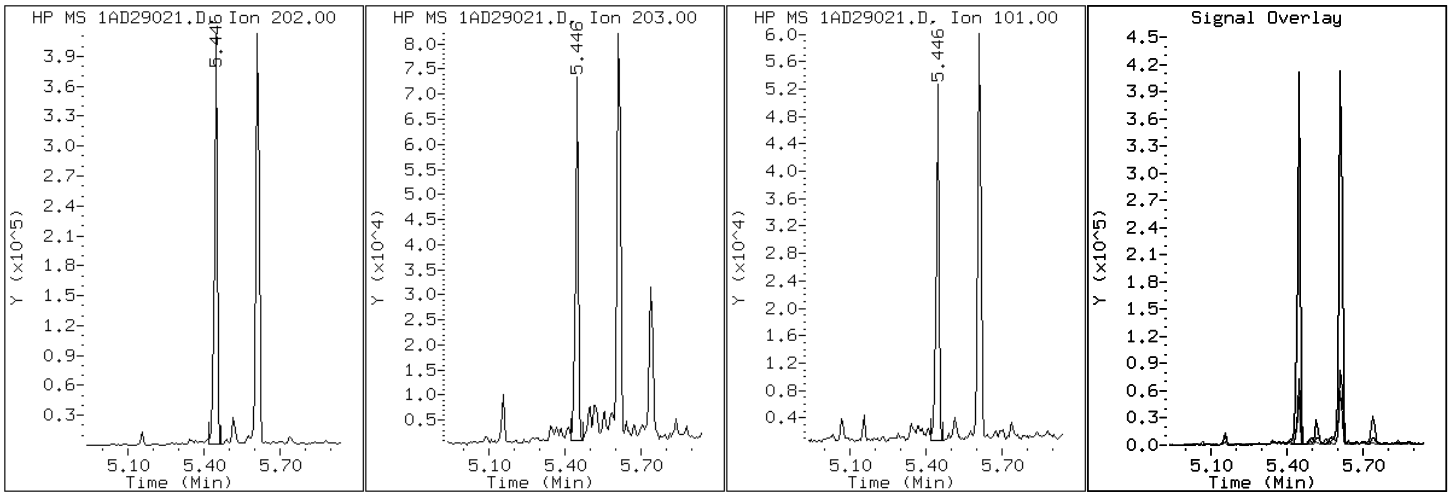
Data File: 1AD29021.D

Date: 29-APR-2013 17:09

Client ID: CV0575A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a Operator: SCC

15 Fluoranthene



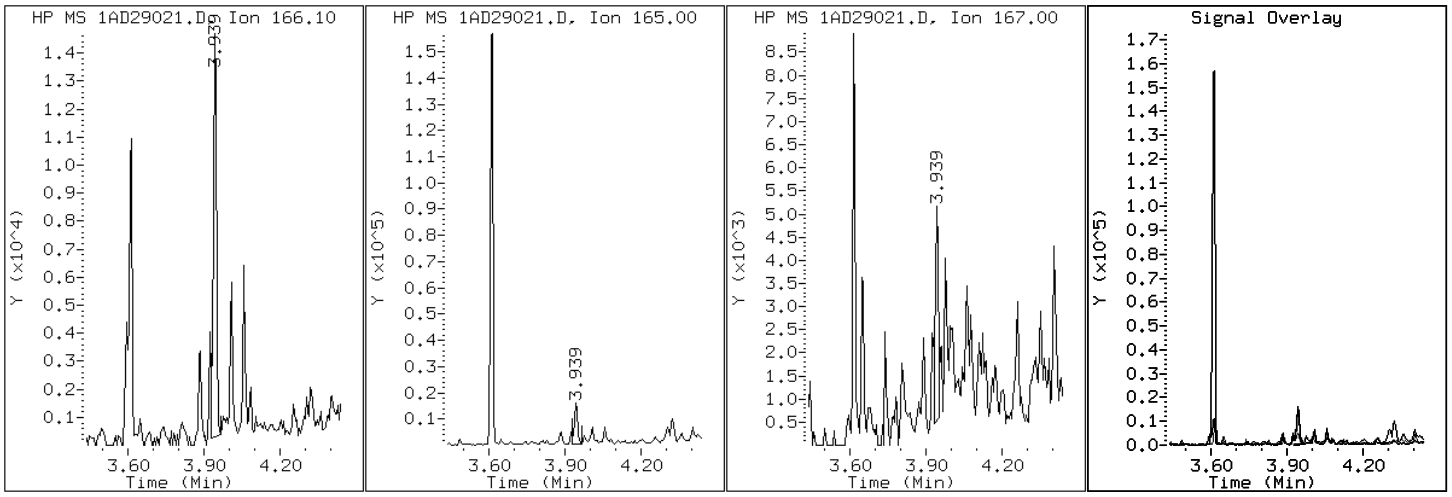
Data File: 1AD29021.D

Date: 29-APR-2013 17:09

Client ID: CV0575A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a Operator: SCC

9 Fluorene



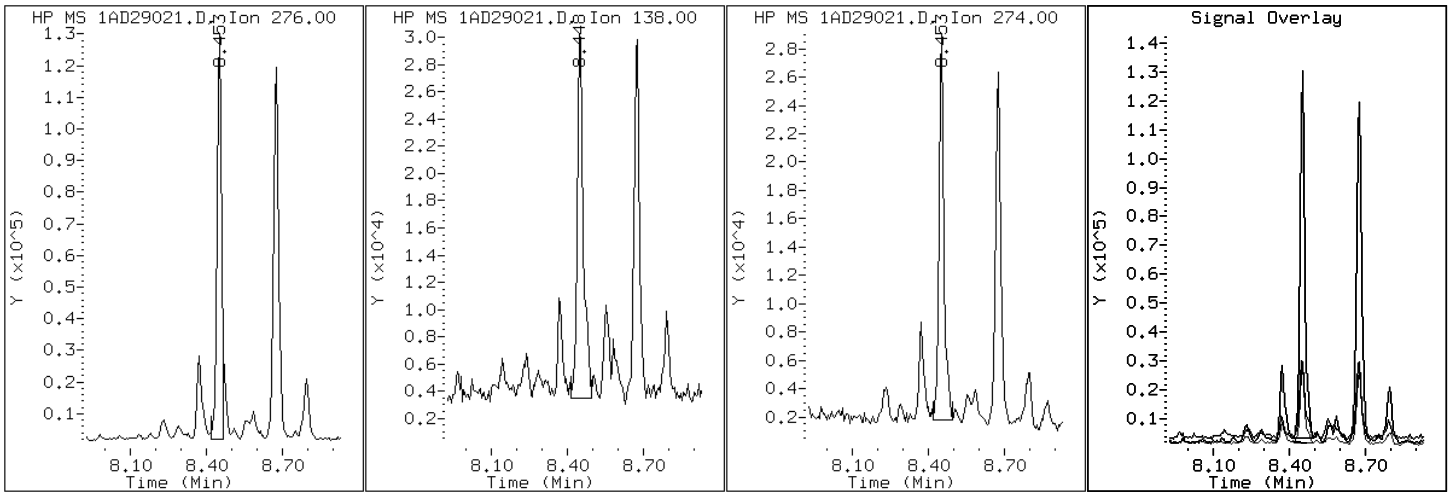
Data File: 1AD29021.D

Date: 29-APR-2013 17:09

Client ID: CV0575A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a Operator: SCC

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



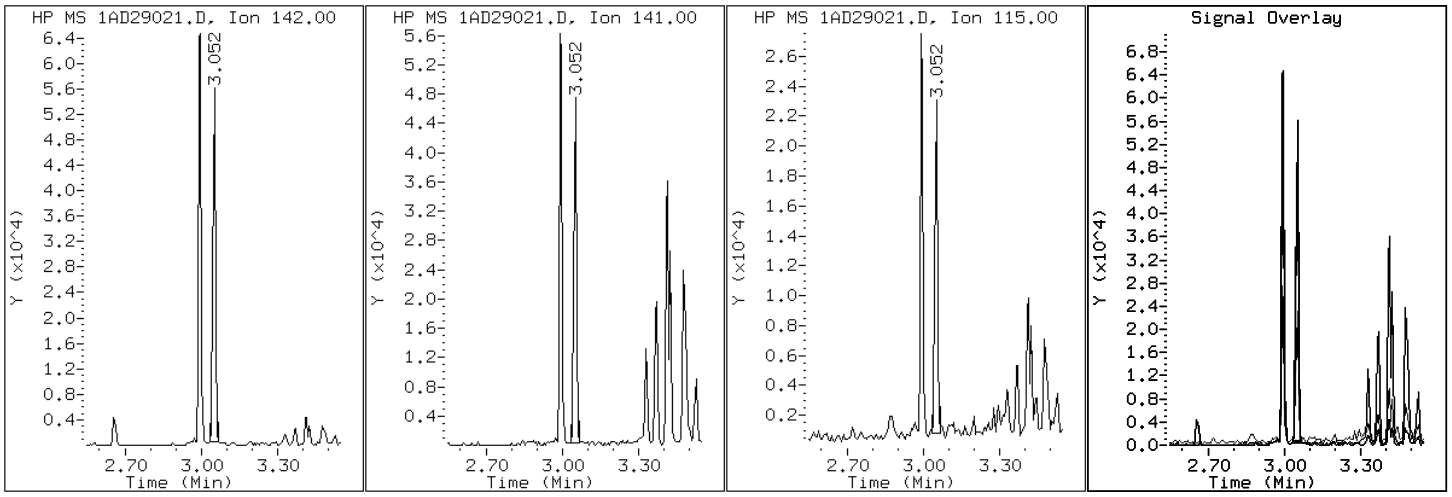
Data File: 1AD29021.D

Date: 29-APR-2013 17:09

Client ID: CV0575A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a Operator: SCC

4 1-Methylnaphthalene



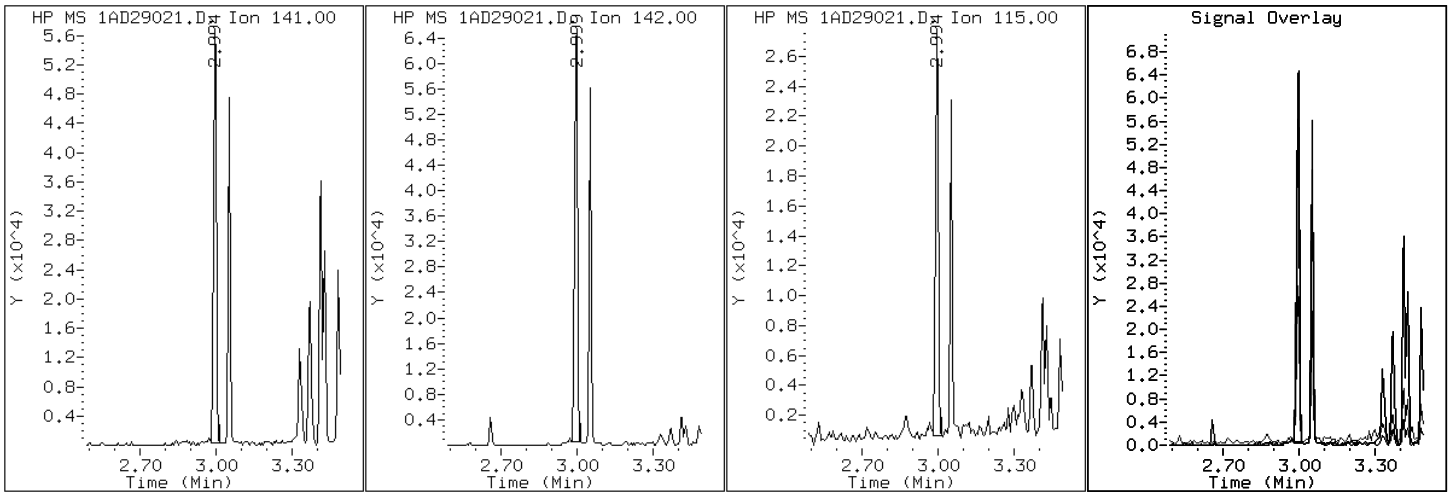
Data File: 1AD29021.D

Date: 29-APR-2013 17:09

Client ID: CV0575A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a Operator: SCC

3 2-Methylnaphthalene



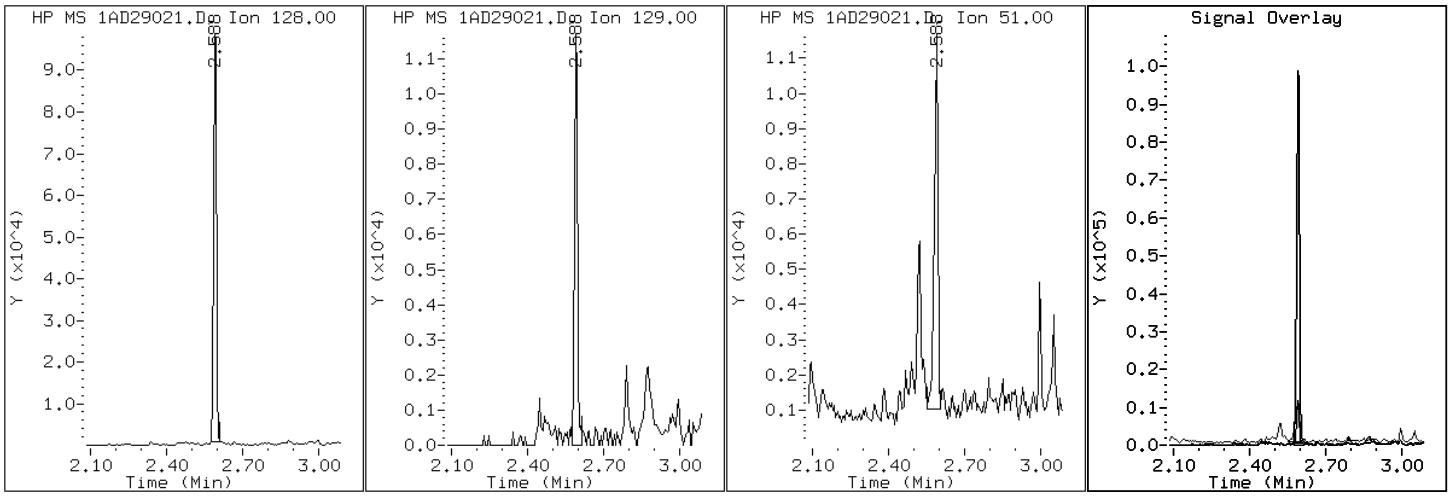
Data File: 1AD29021.D

Date: 29-APR-2013 17:09

Client ID: CV0575A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a Operator: SCC

2 Naphthalene



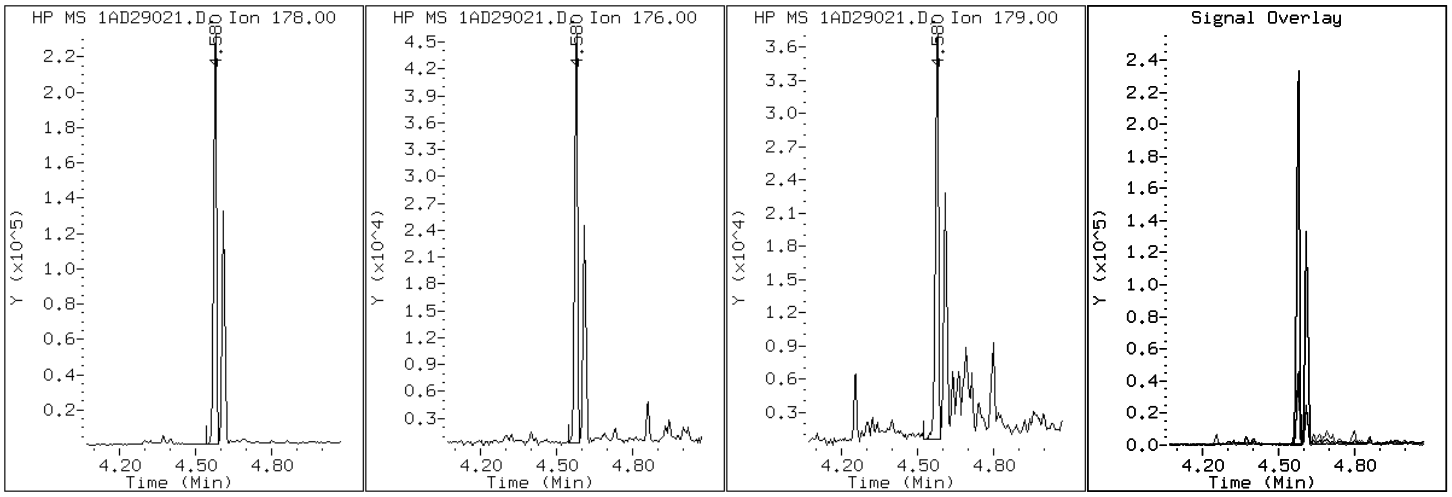
Data File: 1AD29021.D

Date: 29-APR-2013 17:09

Client ID: CV0575A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a Operator: SCC

11 Phenanthrene



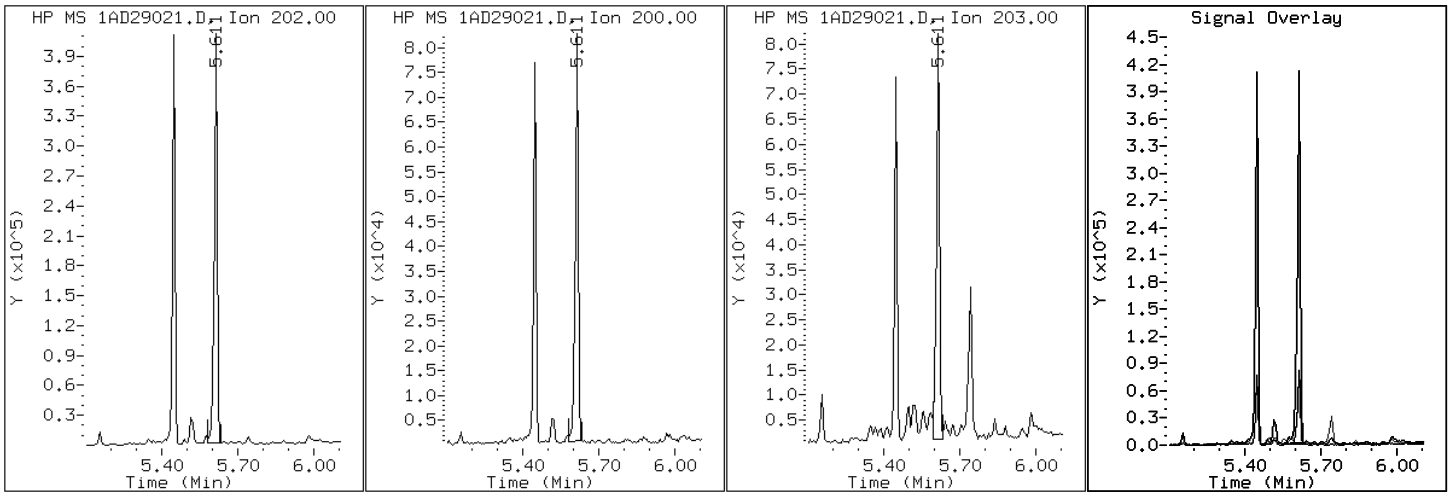
Data File: 1AD29021.D

Date: 29-APR-2013 17:09

Client ID: CV0575A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-18-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD29021.D
Inj. Date and Time: 29-APR-2013 17:09
Instrument ID: BSMA5973.i
Client ID: CV0575A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

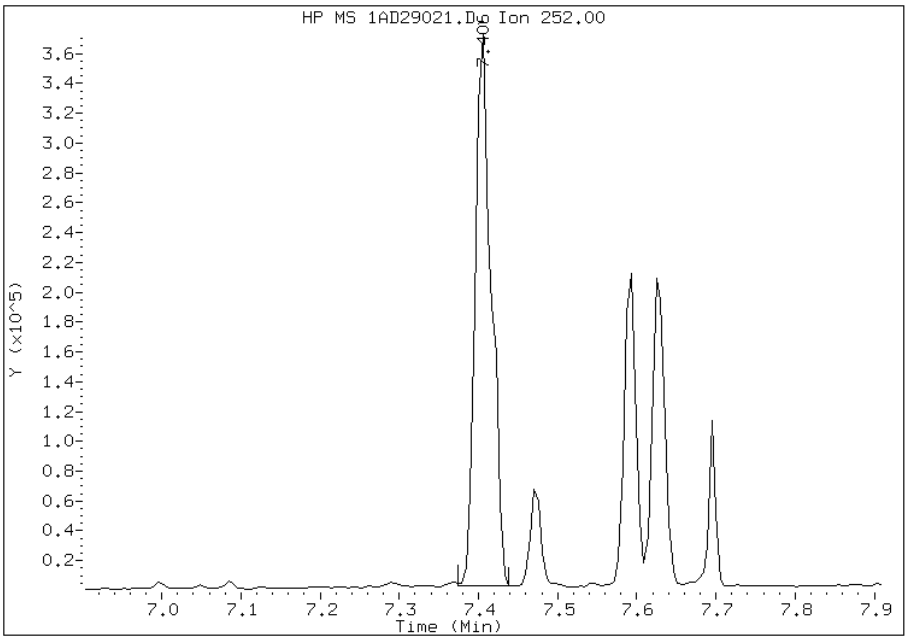
Processing Integration Results

RT: 7.41

Response: 514185

Amount: 9

Conc: 709



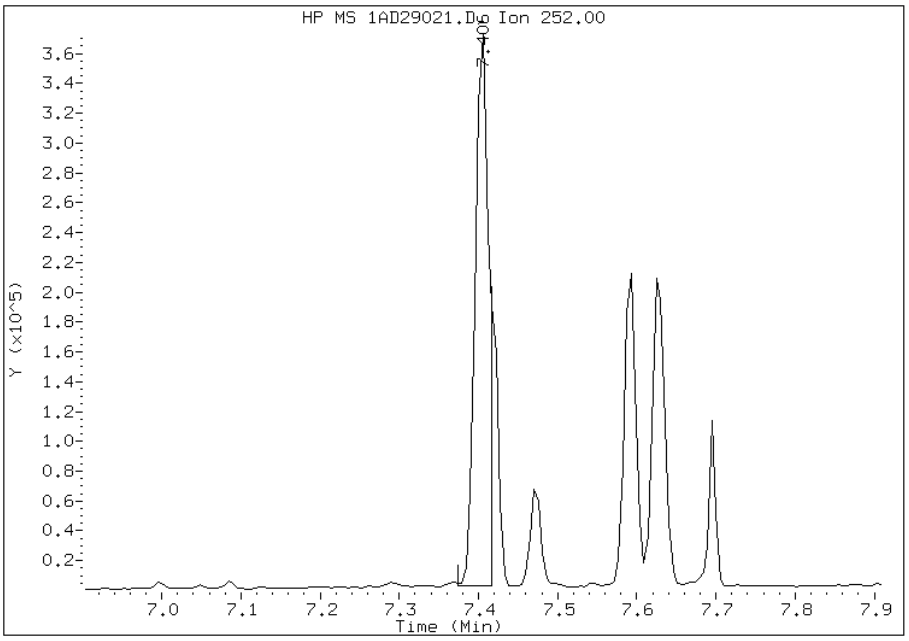
Manual Integration Results

RT: 7.41

Response: 444254

Amount: 7

Conc: 613



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:30
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29021.D
Inj. Date and Time: 29-APR-2013 17:09
Instrument ID: BSMA5973.i
Client ID: CV0575A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

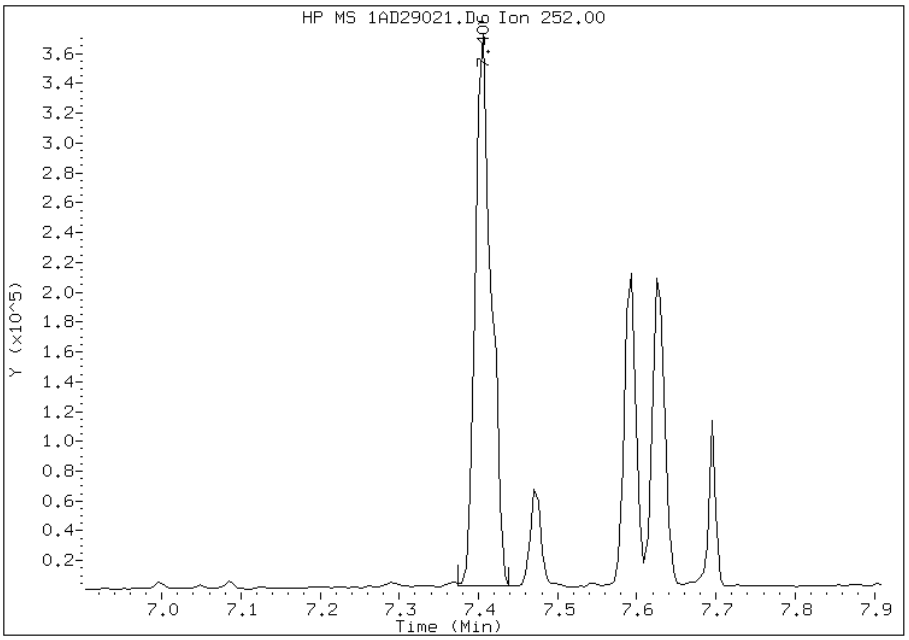
Processing Integration Results

RT: 7.41

Response: 514185

Amount: 8

Conc: 617



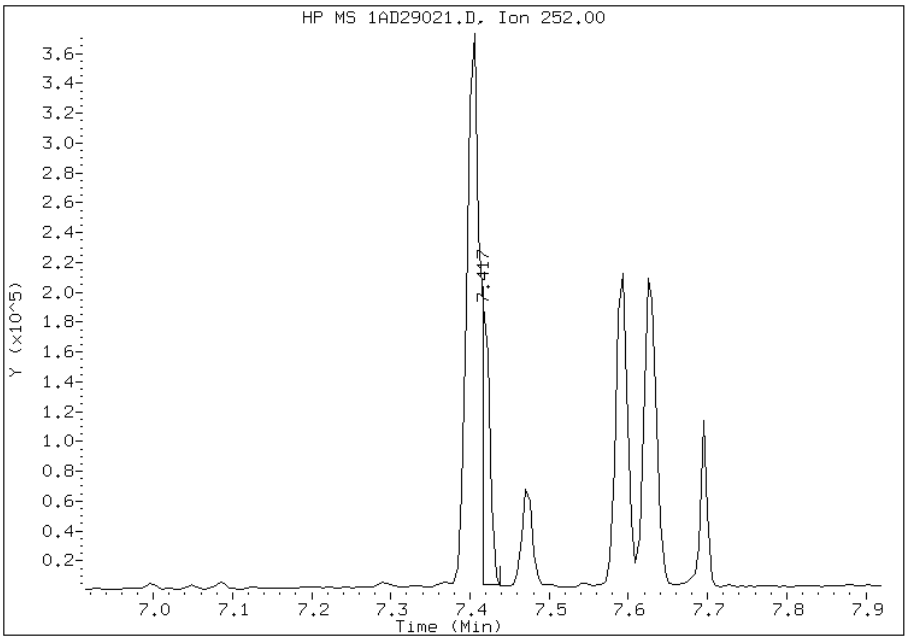
Manual Integration Results

RT: 7.42

Response: 128659

Amount: 2

Conc: 154



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29021.D
Inj. Date and Time: 29-APR-2013 17:09
Instrument ID: BSMA5973.i
Client ID: CV0575A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

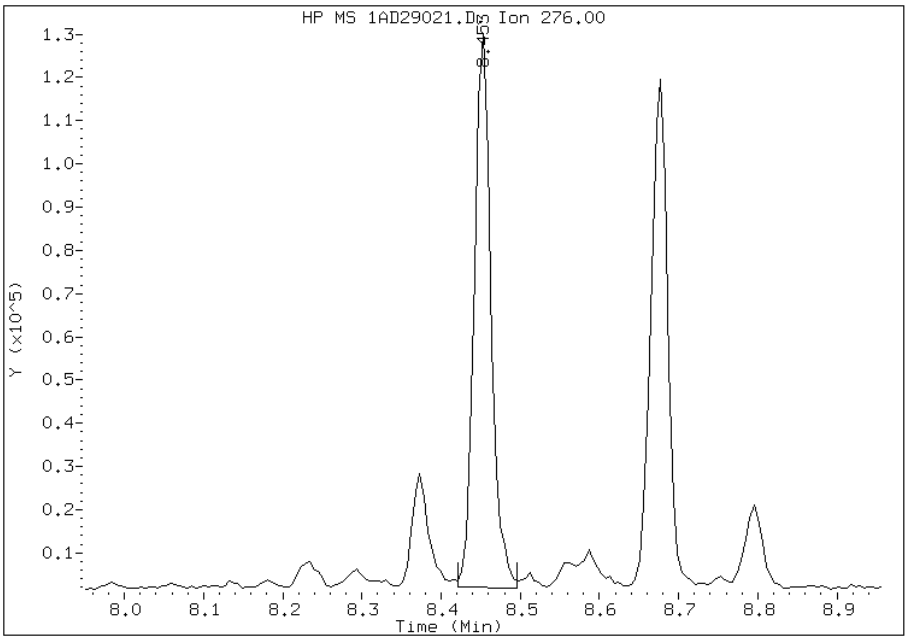
Processing Integration Results

RT: 8.45

Response: 186304

Amount: 3

Conc: 274



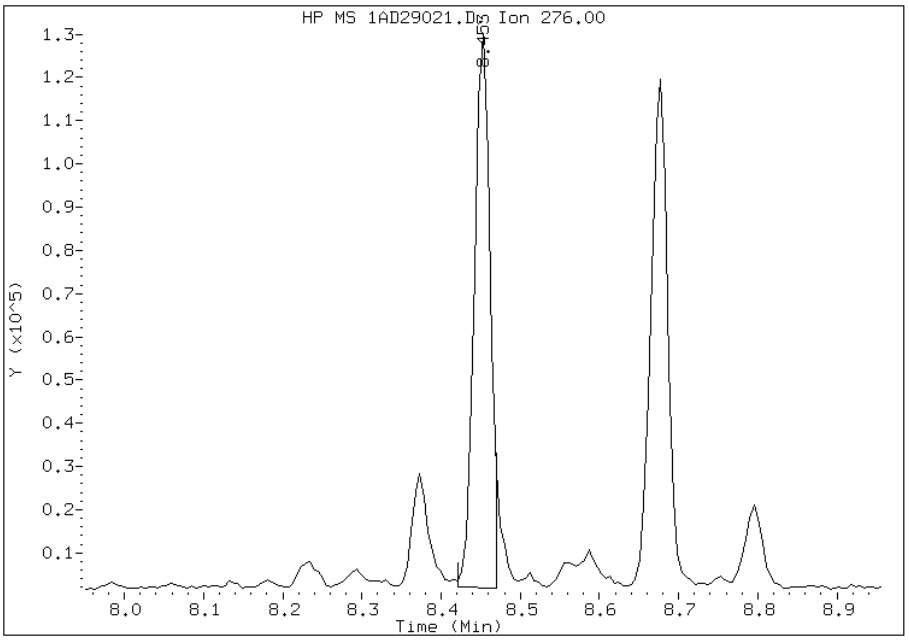
Manual Integration Results

RT: 8.45

Response: 175612

Amount: 3

Conc: 258



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV0927A-CS-SP | Lab Sample ID: 680-89695-19

Matrix: Solid | Lab File ID: 1AD29022.D

Analysis Method: 8270C LL | Date Collected: 04/23/2013 13:51

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 14.98(g) | Date Analyzed: 04/29/2013 17:24

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

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

% Moisture: 20.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136961 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	12	J	50	6.3
120-12-7	Anthracene	27		11	5.3
56-55-3	Benzo[a]anthracene	82		10	4.9
50-32-8	Benzo[a]pyrene	86		13	6.5
205-99-2	Benzo[b]fluoranthene	160		15	7.7
191-24-2	Benzo[g,h,i]perylene	66		25	5.5
207-08-9	Benzo[k]fluoranthene	52		10	4.5
218-01-9	Chrysene	110		11	5.6
53-70-3	Dibenz(a,h)anthracene	20	J	25	5.1
206-44-0	Fluoranthene	110		25	5.0
86-73-7	Fluorene	9.5	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	73		25	8.9
90-12-0	1-Methylnaphthalene	22	J	50	5.5
91-57-6	2-Methylnaphthalene	32	J	50	8.9
91-20-3	Naphthalene	30	J	50	5.5
85-01-8	Phenanthrene	87		10	4.9
129-00-0	Pyrene	89		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	31		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29022.D
Lab Smp Id: 680-89695-A-19-A Client Smp ID: CV0927A-CS-SP
Inj Date : 29-APR-2013 17:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89695-a-19-a
Misc Info : 680-89695-A-19-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	20.170	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.580	2.572	(1.000)	1739669	40.0000	
* 6 Acenaphthene-d10	164	3.611	3.603	(1.000)	867210	40.0000	
* 10 Phenanthrene-d10	188	4.567	4.554	(1.000)	1357259	40.0000	
$ 14 o-Terphenyl	230	4.861	4.859	(1.064)	67987	3.06249	256.0920
* 18 Chrysene-d12	240	6.592	6.574	(1.000)	1489866	40.0000	
* 23 Perylene-d12	264	7.682	7.663	(1.000)	1750489	40.0000	
2 Naphthalene	128	2.591	2.583	(1.004)	15737	0.36187	30.2602
3 2-Methylnaphthalene	141	2.997	2.989	(1.161)	9396	0.37685	31.5133
4 1-Methylnaphthalene	142	3.050	3.048	(1.182)	7190	0.26029	21.7657
5 Acenaphthylene	152	3.520	3.513	(0.975)	7134	0.14076	11.7706
9 Fluorene	166	3.942	3.935	(1.092)	3637	0.11373	9.5106(Q)
11 Phenanthrene	178	4.578	4.570	(1.002)	41049	1.04405	87.3056
12 Anthracene	178	4.610	4.608	(1.009)	13148	0.32161	26.8940
13 Carbazole	167	4.743	4.736	(1.039)	7108	0.18023	15.0714

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.443	5.436	(1.192)	62197	1.36961	114.5299
16 Pyrene	202	5.609	5.601	(0.851)	60598	1.06613	89.1517
17 Benzo(a)anthracene	228	6.581	6.563	(0.998)	47692	0.98021	81.9676
19 Chrysene	228	6.603	6.595	(1.002)	63877	1.29408	108.2133
20 Benzo(b)fluoranthene	252	7.398	7.380	(0.963)	102532	1.92933	161.3348(M)
21 Benzo(k)fluoranthene	252	7.409	7.407	(0.965)	37795	0.61856	51.7249(QM)
22 Benzo(a)pyrene	252	7.623	7.610	(0.992)	54147	1.02419	85.6445
24 Indeno(1,2,3-cd)pyrene	276	8.440	8.427	(1.099)	43358	0.86857	72.6318(M)
25 Dibenzo(a,h)anthracene	278	8.467	8.454	(1.102)	10934	0.23541	19.6853
26 Benzo(g,h,i)perylene	276	8.665	8.646	(1.128)	44320	0.79329	66.3366

QC Flag Legend

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

Data File: 1AD29022.D

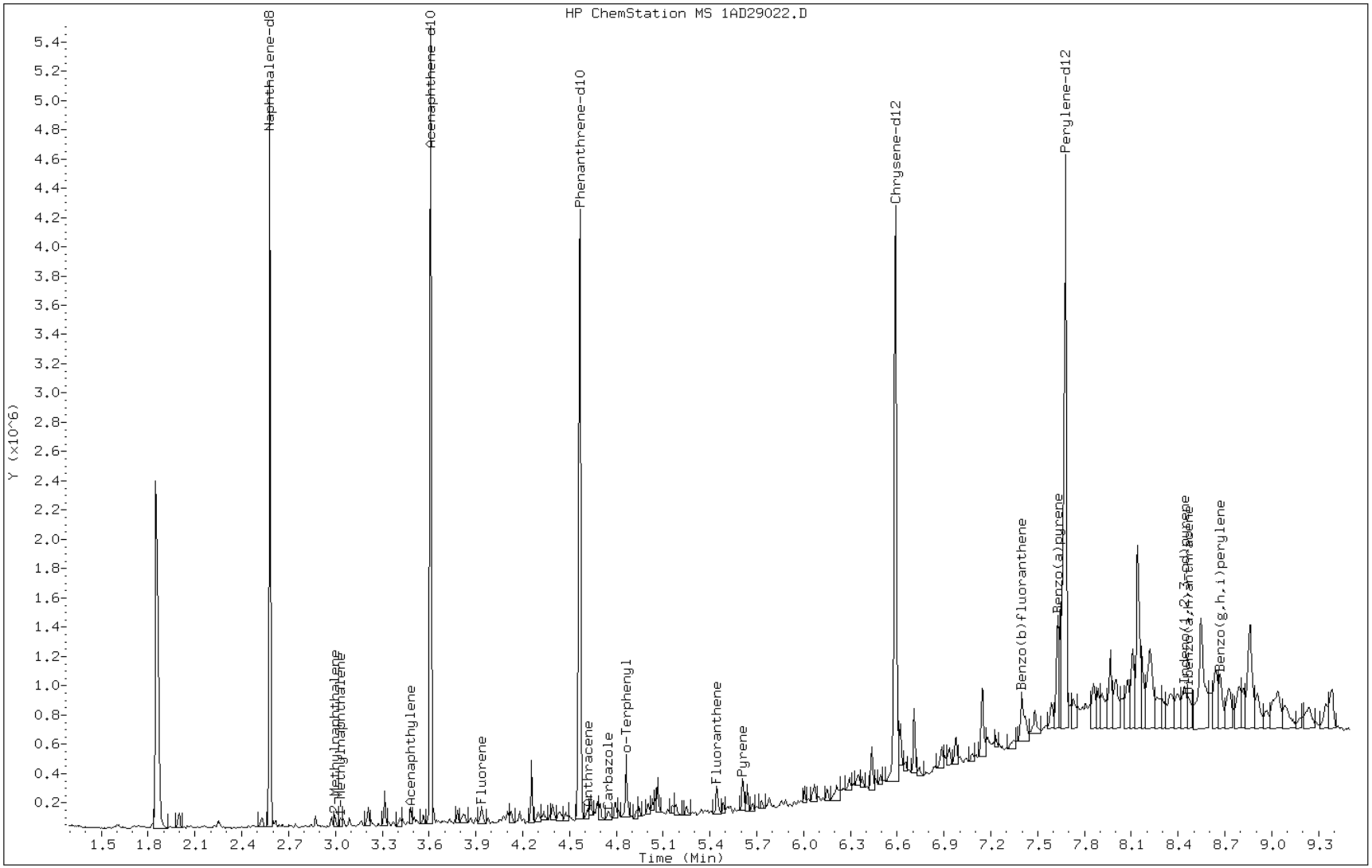
Date: 29-APR-2013 17:24

Client ID: CV0927A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a

Operator: SCC



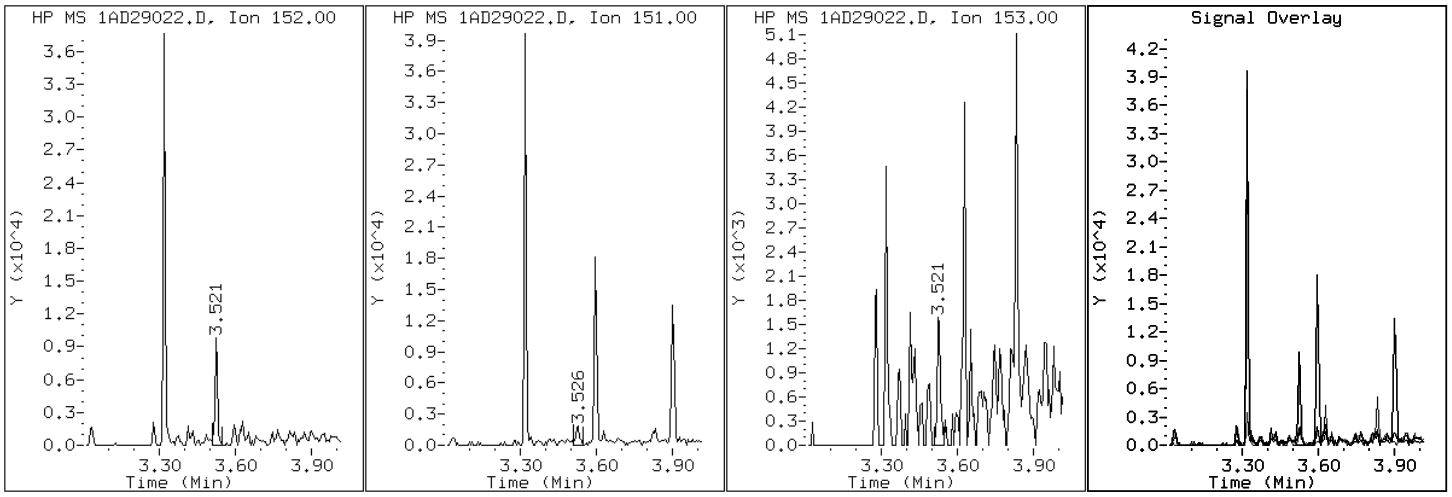
Data File: 1AD29022.D

Date: 29-APR-2013 17:24

Client ID: CV0927A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a Operator: SCC

5 Acenaphthylene



Data File: 1AD29022.D

Date: 29-APR-2013 17:24

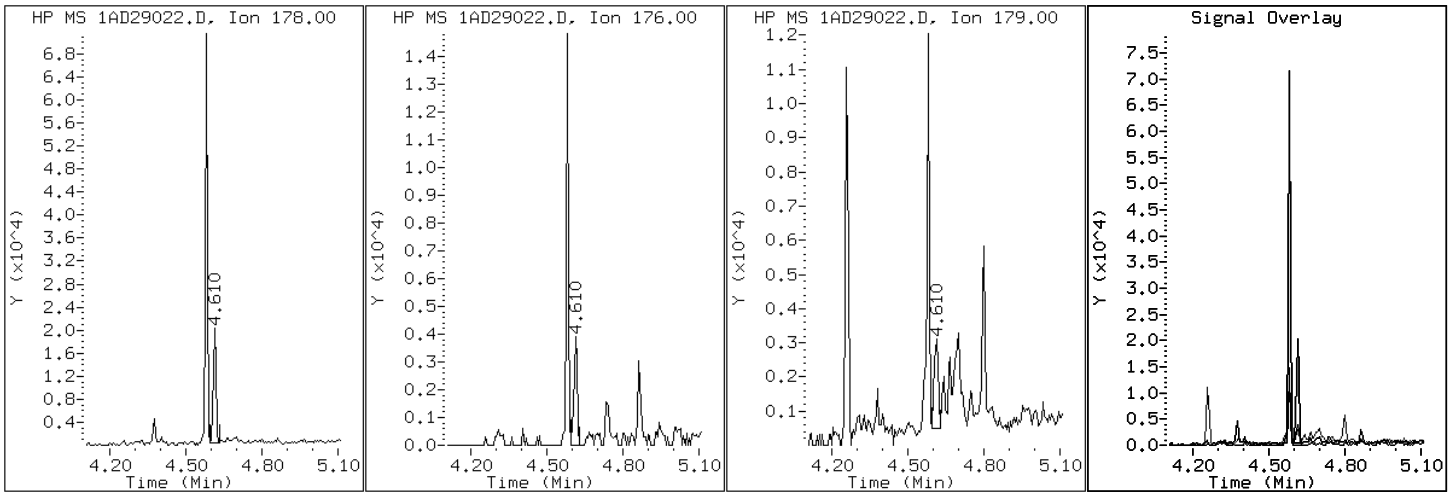
Client ID: CV0927A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a

Operator: SCC

12 Anthracene



Data File: 1AD29022.D

Date: 29-APR-2013 17:24

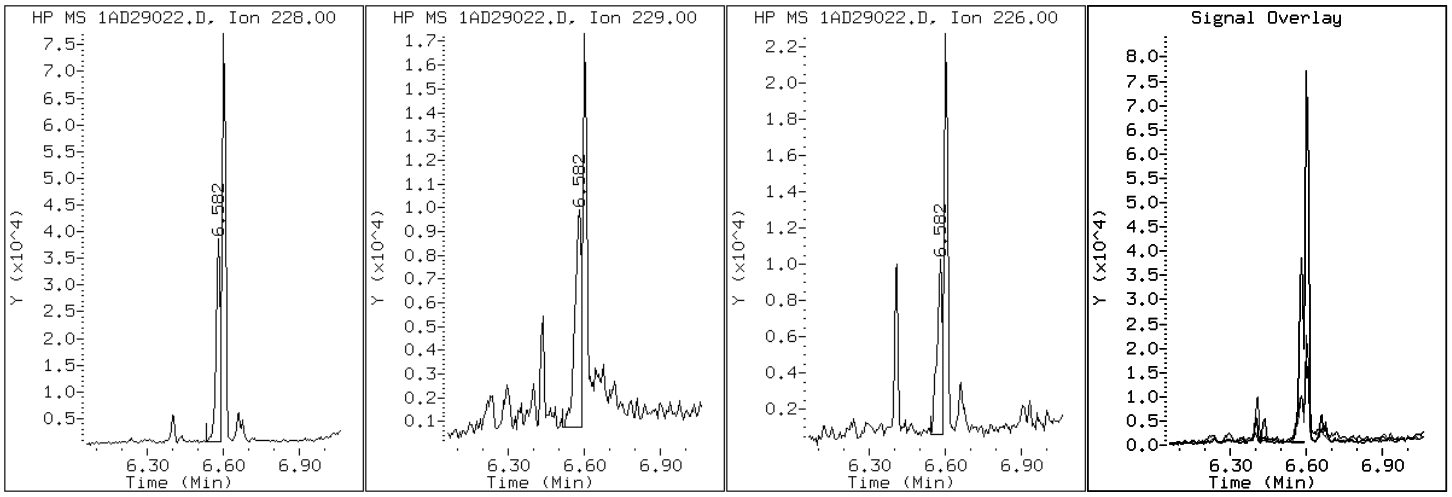
Client ID: CV0927A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a

Operator: SCC

17 Benzo(a)anthracene



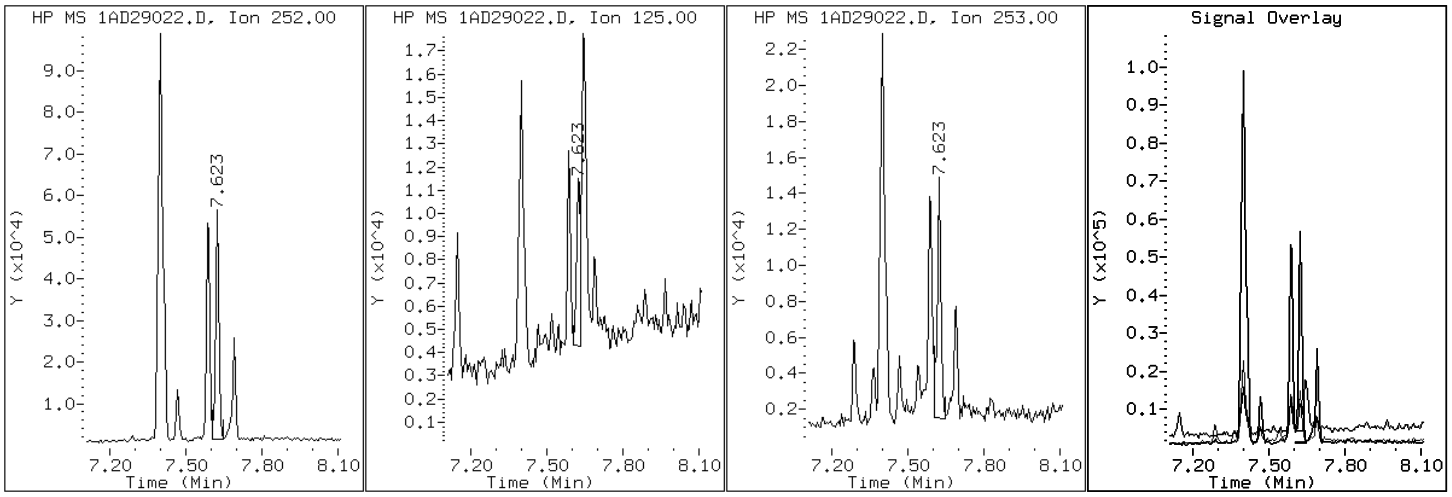
Data File: 1AD29022.D

Date: 29-APR-2013 17:24

Client ID: CV0927A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a Operator: SCC

22 Benzo(a)pyrene



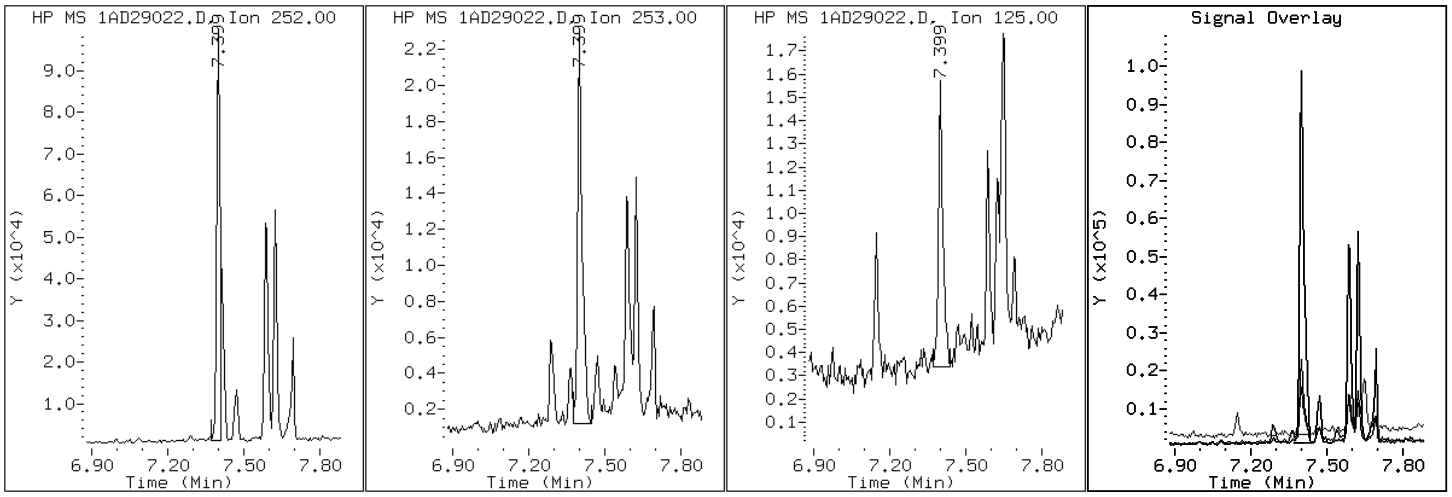
Data File: 1AD29022.D

Date: 29-APR-2013 17:24

Client ID: CV0927A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD29022.D

Date: 29-APR-2013 17:24

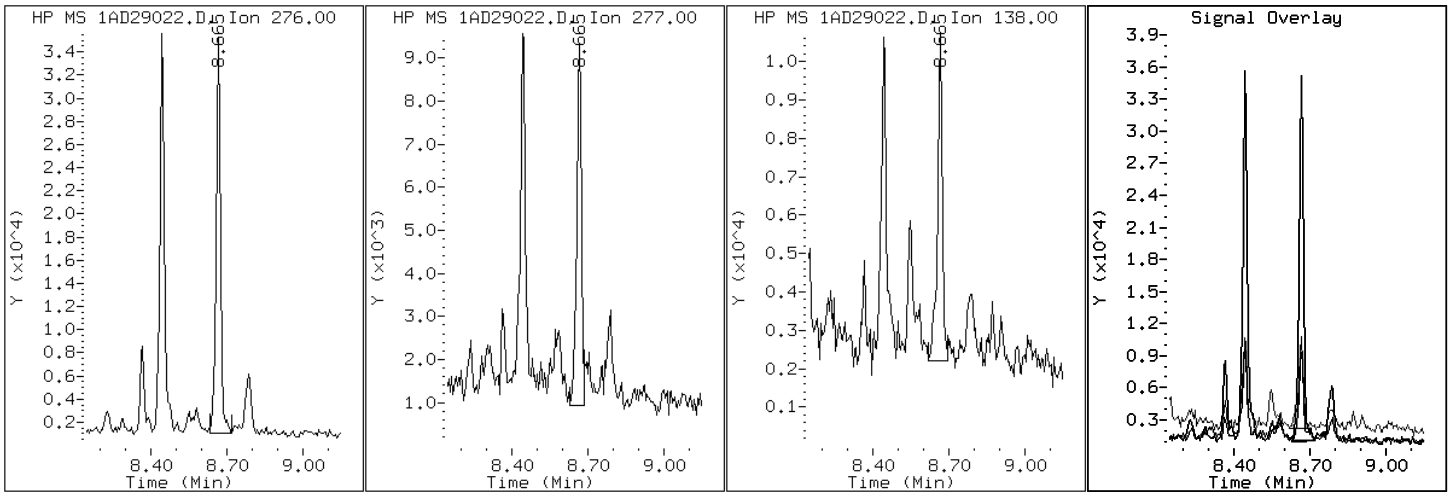
Client ID: CV0927A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a

Operator: SCC

26 Benzo(g,h,i)perylene



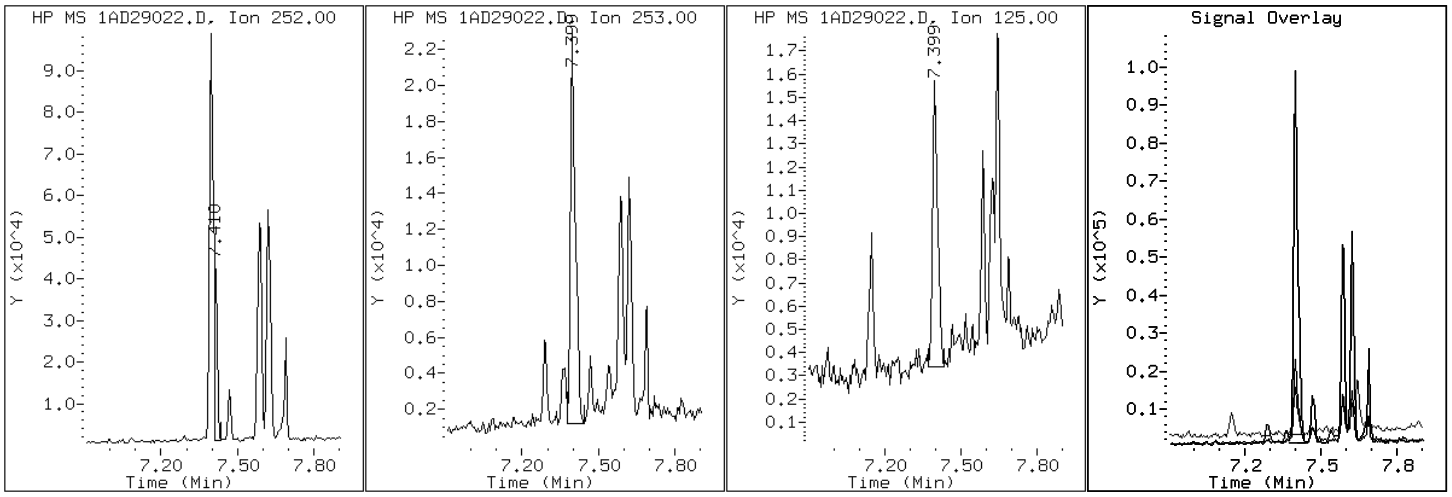
Data File: 1AD29022.D

Date: 29-APR-2013 17:24

Client ID: CV0927A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD29022.D

Date: 29-APR-2013 17:24

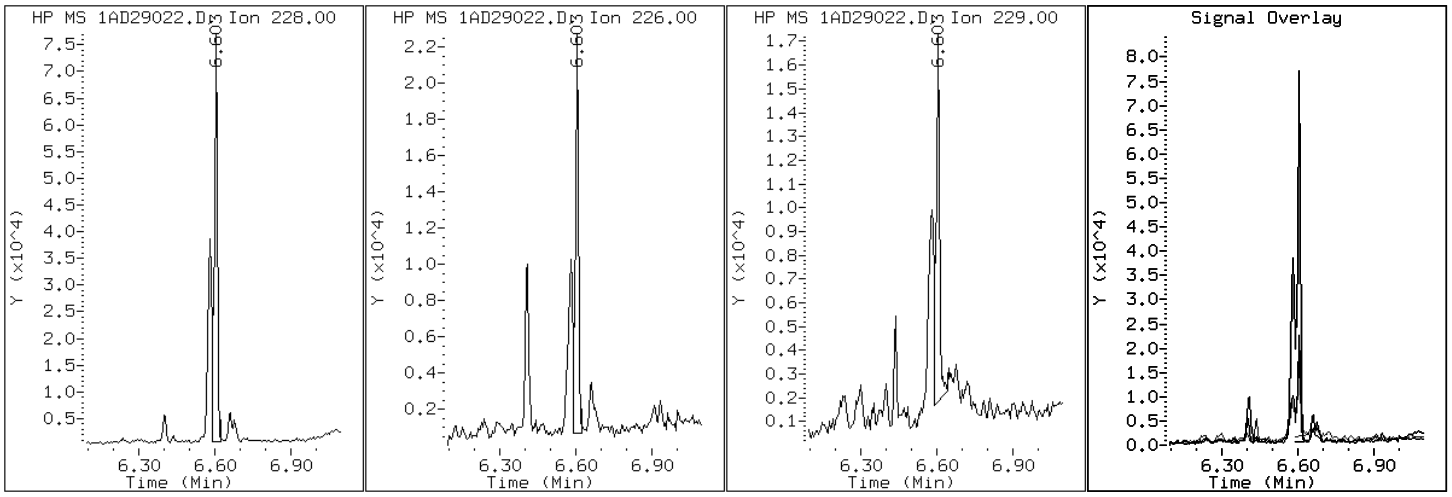
Client ID: CV0927A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a

Operator: SCC

19 Chrysene



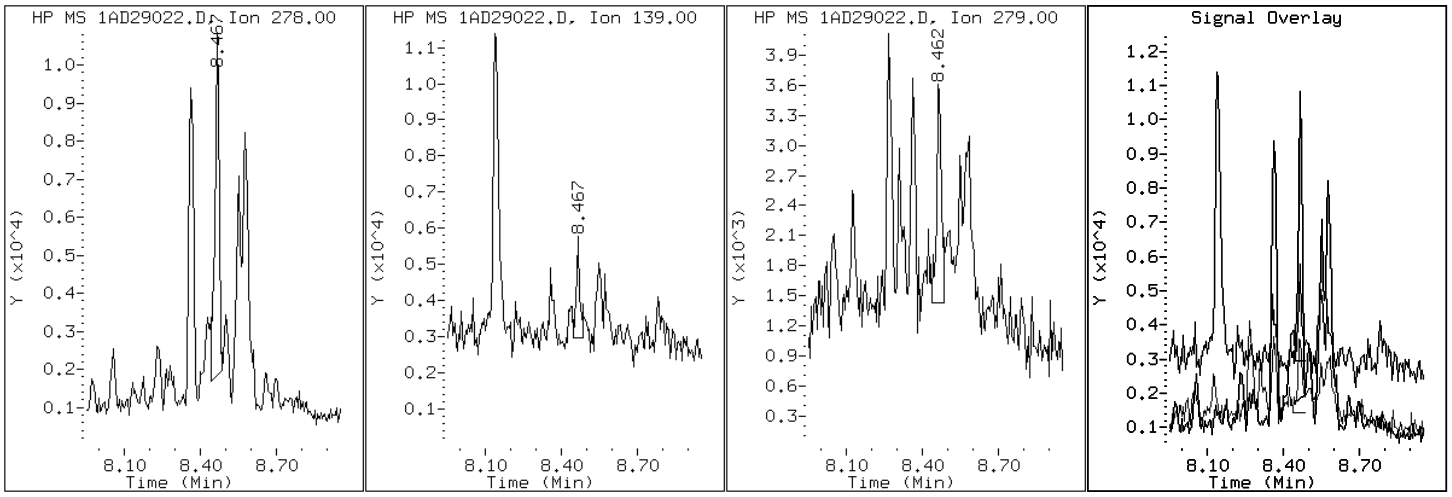
Data File: 1AD29022.D

Date: 29-APR-2013 17:24

Client ID: CV0927A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD29022.D

Date: 29-APR-2013 17:24

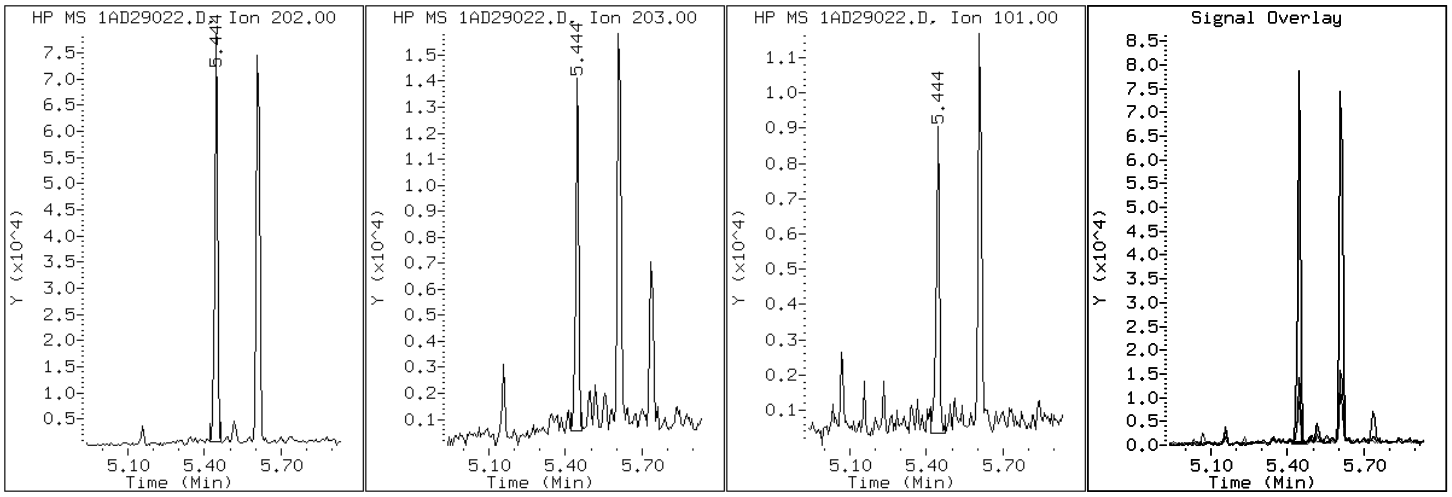
Client ID: CV0927A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a

Operator: SCC

15 Fluoranthene



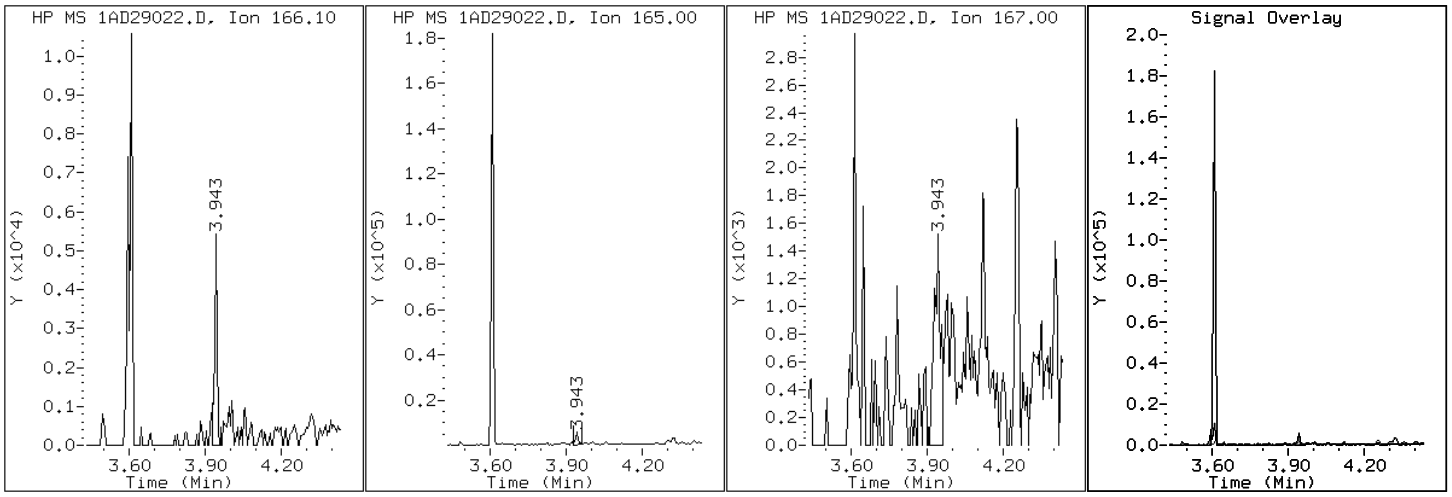
Data File: 1AD29022.D

Date: 29-APR-2013 17:24

Client ID: CV0927A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a Operator: SCC

9 Fluorene



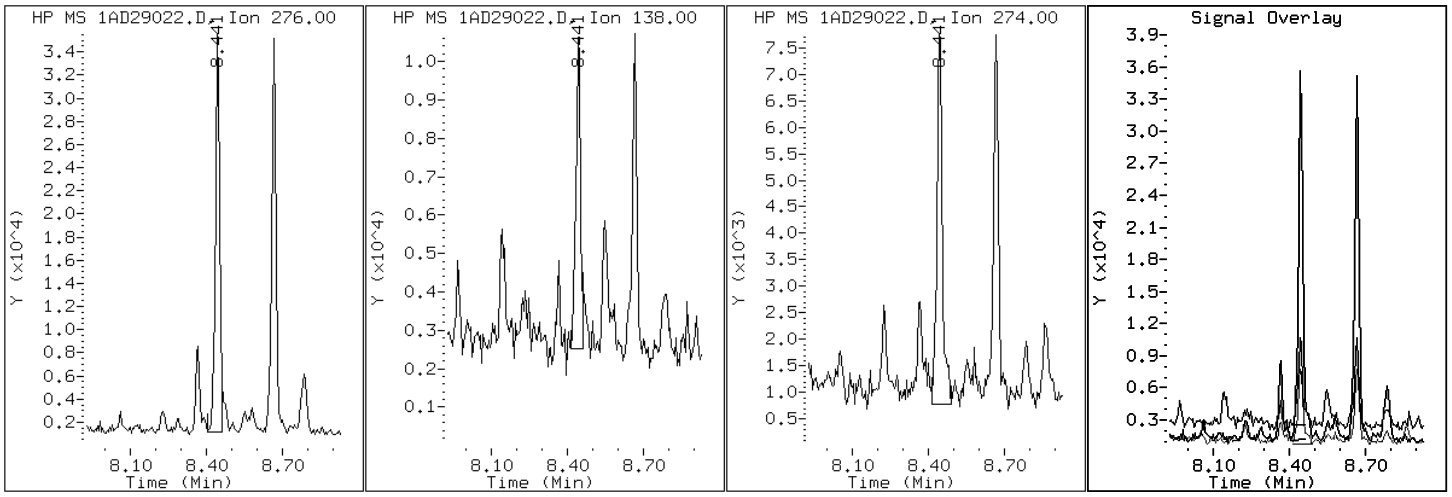
Data File: 1AD29022.D

Date: 29-APR-2013 17:24

Client ID: CV0927A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a Operator: SCC

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



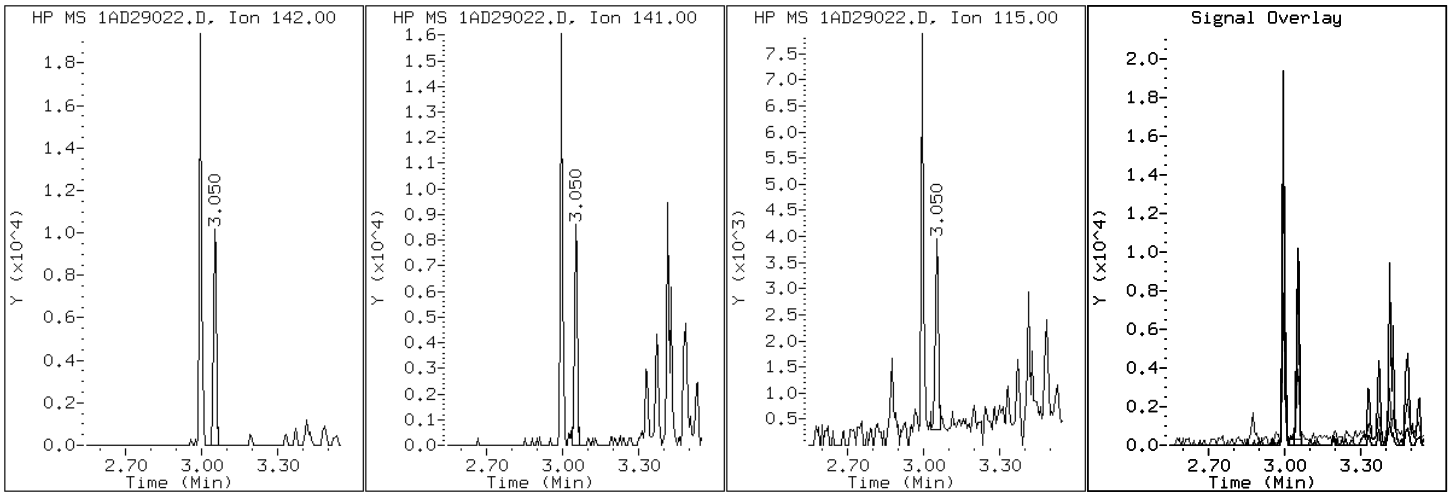
Data File: 1AD29022.D

Date: 29-APR-2013 17:24

Client ID: CV0927A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a Operator: SCC

4 1-Methylnaphthalene



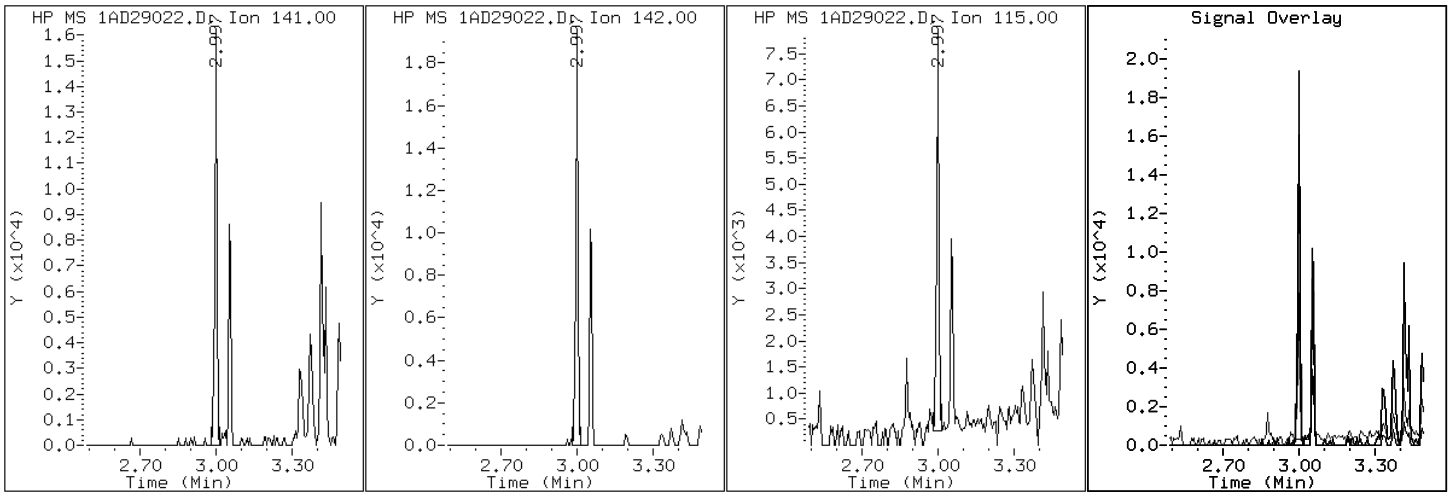
Data File: 1AD29022.D

Date: 29-APR-2013 17:24

Client ID: CV0927A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a Operator: SCC

3 2-Methylnaphthalene



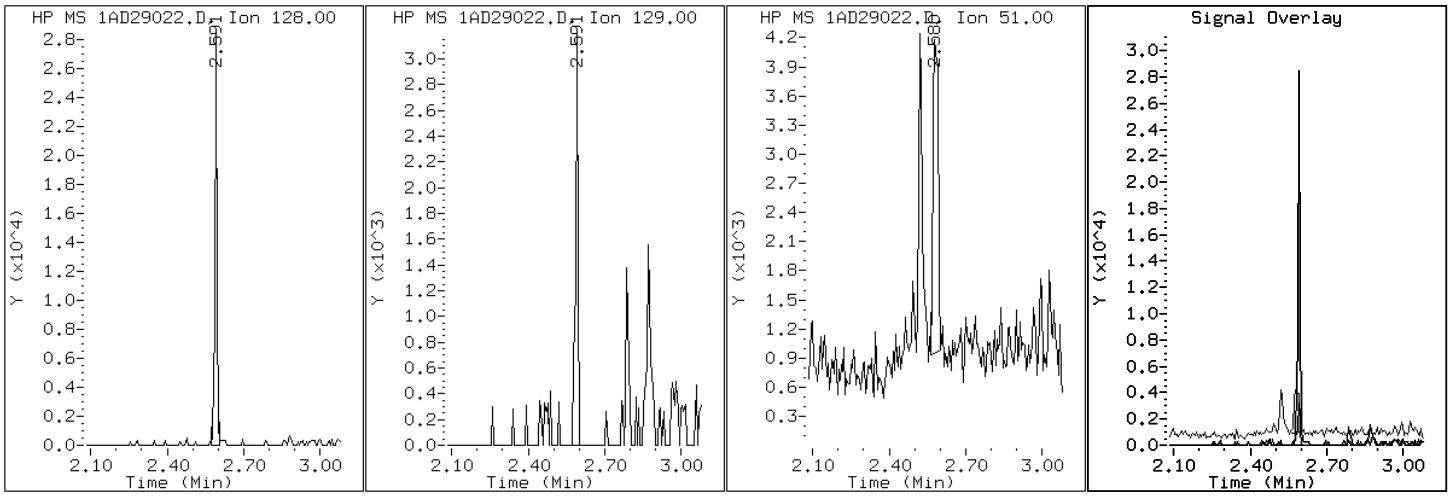
Data File: 1AD29022.D

Date: 29-APR-2013 17:24

Client ID: CV0927A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a Operator: SCC

2 Naphthalene



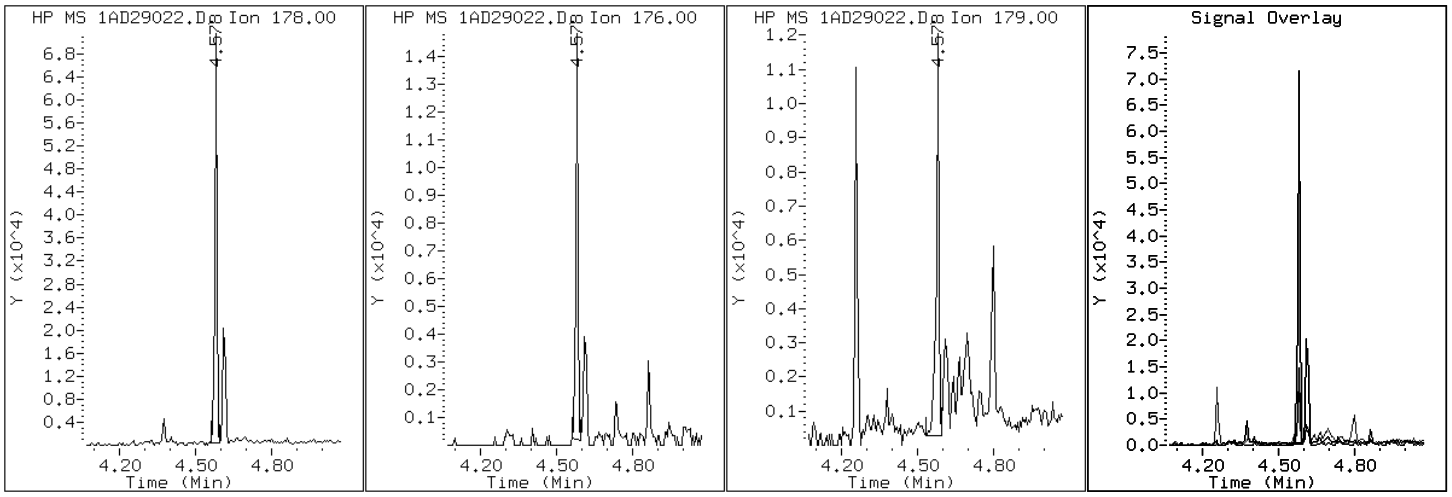
Data File: 1AD29022.D

Date: 29-APR-2013 17:24

Client ID: CV0927A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a Operator: SCC

11 Phenanthrene



Data File: 1AD29022.D

Date: 29-APR-2013 17:24

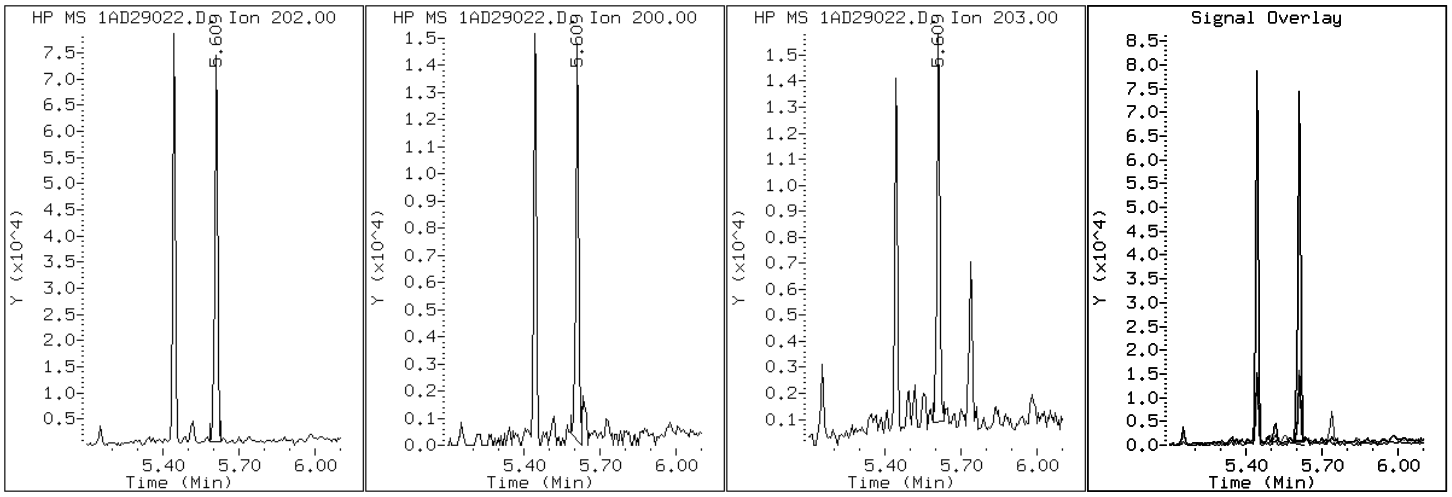
Client ID: CV0927A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-19-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD29022.D
Inj. Date and Time: 29-APR-2013 17:24
Instrument ID: BSMA5973.i
Client ID: CV0927A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

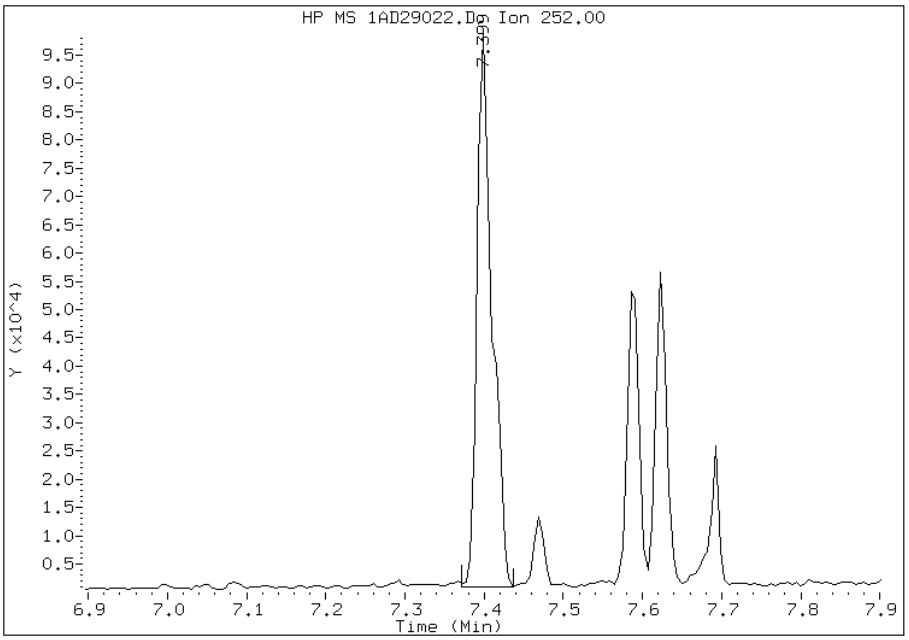
Processing Integration Results

RT: 7.40

Response: 126461

Amount: 2

Conc: 199



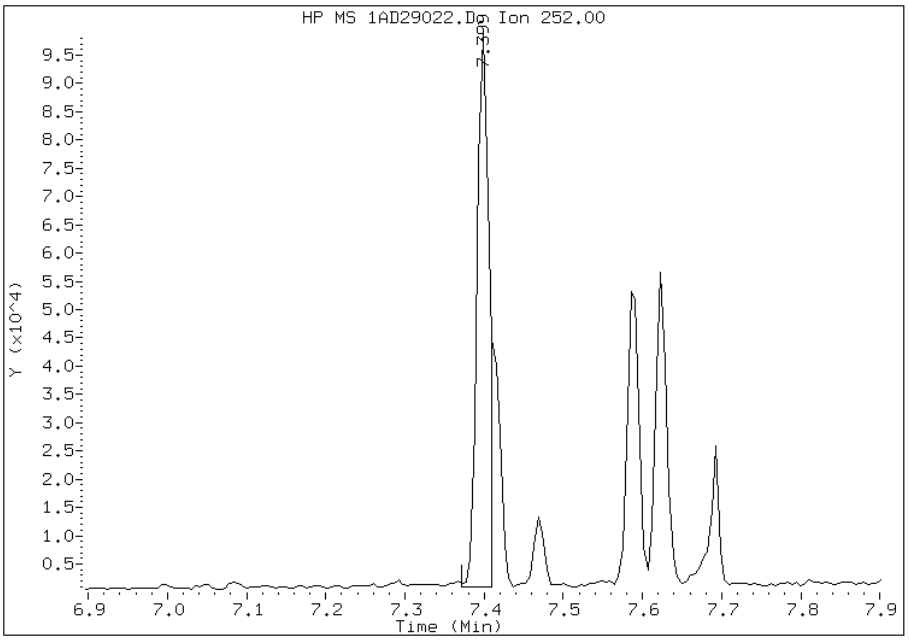
Manual Integration Results

RT: 7.40

Response: 102532

Amount: 2

Conc: 161



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:31
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29022.D
Inj. Date and Time: 29-APR-2013 17:24
Instrument ID: BSMA5973.i
Client ID: CV0927A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

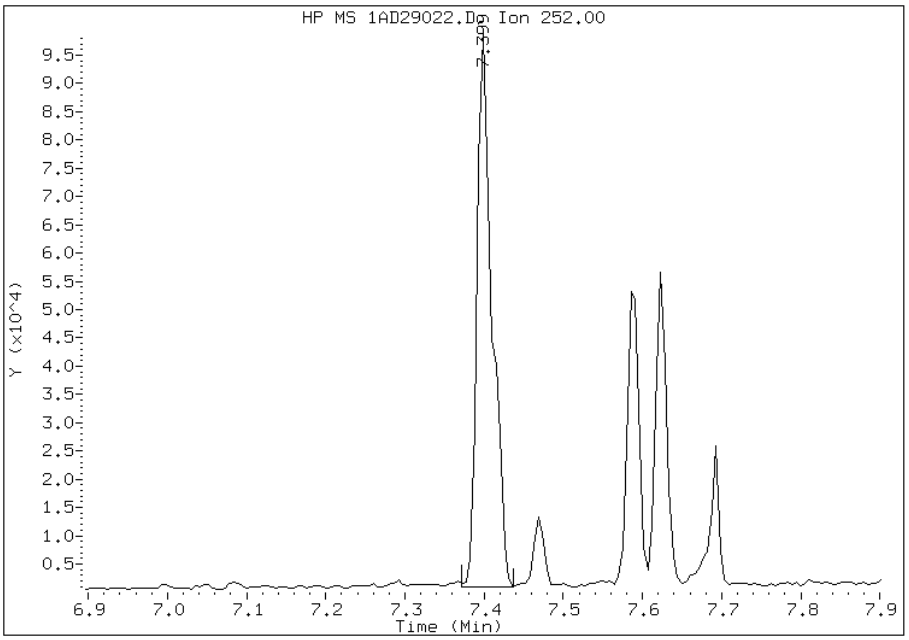
Processing Integration Results

RT: 7.40

Response: 126461

Amount: 2

Conc: 173



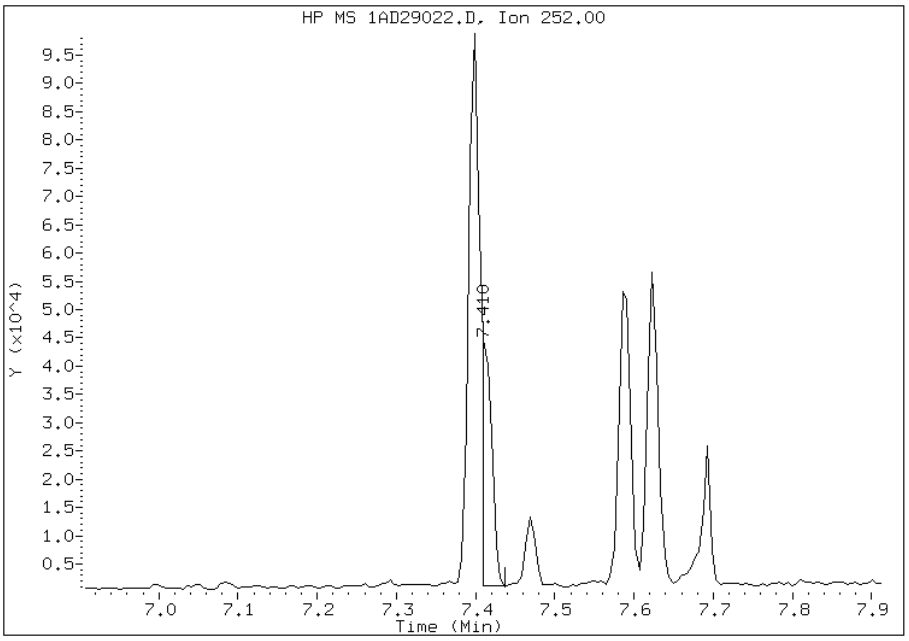
Manual Integration Results

RT: 7.41

Response: 37795

Amount: 1

Conc: 52



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29022.D
Inj. Date and Time: 29-APR-2013 17:24
Instrument ID: BSMA5973.i
Client ID: CV0927A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

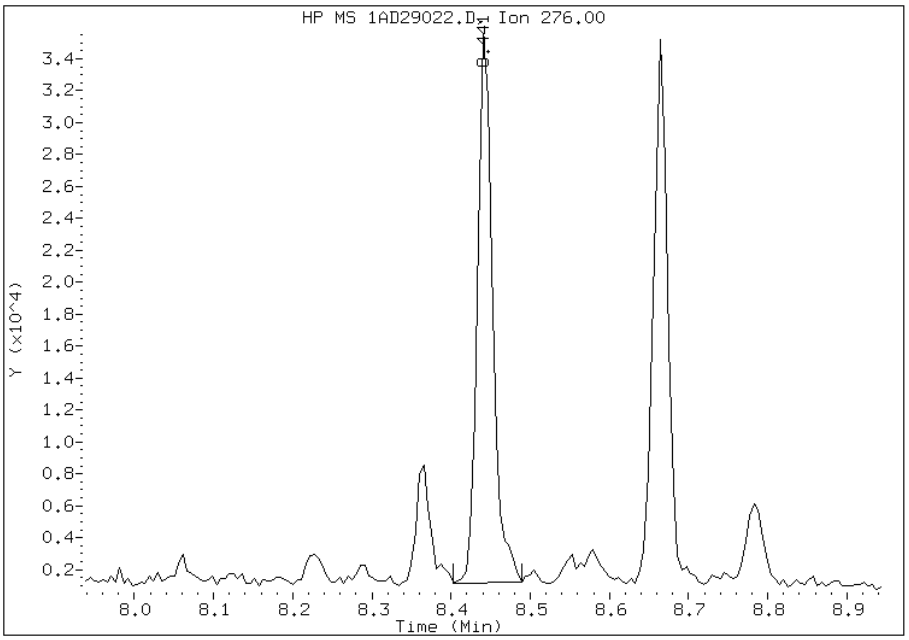
Processing Integration Results

RT: 8.44

Response: 45695

Amount: 1

Conc: 77



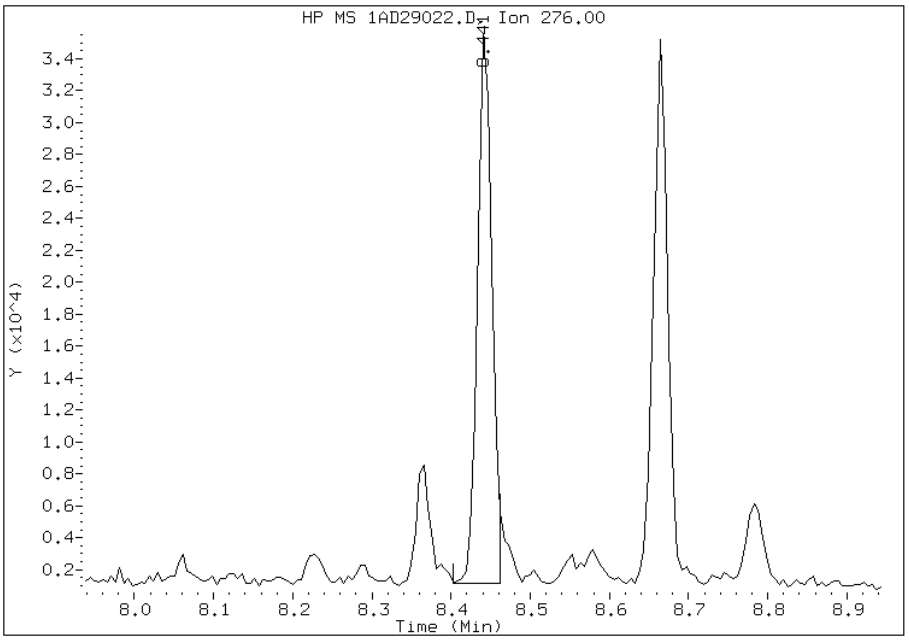
Manual Integration Results

RT: 8.44

Response: 43358

Amount: 1

Conc: 73



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:31
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV0927B-CS-SP | Lab Sample ID: 680-89695-20

Matrix: Solid | Lab File ID: 1AD29023.D

Analysis Method: 8270C LL | Date Collected: 04/23/2013 14:03

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 15.11(g) | Date Analyzed: 04/29/2013 17:39

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

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

% Moisture: 28.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136961 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	92		55	6.9
120-12-7	Anthracene	72		12	5.8
56-55-3	Benzo[a]anthracene	100		11	5.4
50-32-8	Benzo[a]pyrene	100		14	7.2
205-99-2	Benzo[b]fluoranthene	180		17	8.5
191-24-2	Benzo[g,h,i]perylene	85		28	6.1
207-08-9	Benzo[k]fluoranthene	75		11	5.0
218-01-9	Chrysene	160		12	6.2
53-70-3	Dibenz(a,h)anthracene	30		28	5.7
206-44-0	Fluoranthene	190		28	5.5
86-73-7	Fluorene	38		28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	86		28	9.8
90-12-0	1-Methylnaphthalene	130		55	6.1
91-57-6	2-Methylnaphthalene	170		55	9.8
91-20-3	Naphthalene	580		55	6.1
85-01-8	Phenanthrene	350		11	5.4
129-00-0	Pyrene	200		28	5.1

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\BSMA5973.i\1A042913.b\1AD29023.D
Lab Smp Id: 680-89695-A-20-A Client Smp ID: CV0927B-CS-SP
Inj Date : 29-APR-2013 17:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89695-a-20-a
Misc Info : 680-89695-A-20-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	28.406	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.583	2.572	(1.000)	1769508	40.0000	
* 6 Acenaphthene-d10	164	3.614	3.603	(1.000)	901507	40.0000	
* 10 Phenanthrene-d10	188	4.564	4.554	(1.000)	1497914	40.0000	
$ 14 o-Terphenyl	230	4.864	4.859	(1.066)	131104	5.35107	494.6550
* 18 Chrysene-d12	240	6.594	6.574	(1.000)	1611990	40.0000	
* 23 Perylene-d12	264	7.690	7.663	(1.000)	1866486	40.0000	
2 Naphthalene	128	2.593	2.583	(1.004)	275741	6.23368	576.2437
3 2-Methylnaphthalene	141	2.999	2.989	(1.161)	46907	1.84962	170.9793
4 1-Methylnaphthalene	142	3.053	3.048	(1.182)	39682	1.41231	130.5546
5 Acenaphthylene	152	3.523	3.513	(0.975)	52631	0.99895	92.3429
9 Fluorene	166	3.939	3.935	(1.090)	13537	0.40722	37.6431
11 Phenanthrene	178	4.580	4.570	(1.004)	163636	3.77115	348.6062
12 Anthracene	178	4.613	4.608	(1.011)	35244	0.78115	72.2101
13 Carbazole	167	4.746	4.736	(1.040)	8808	0.20237	18.7068

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.446	5.436	(1.193)	103119	2.05751	190.1974
16 Pyrene	202	5.612	5.601	(0.851)	132806	2.15950	199.6247
17 Benzo(a)anthracene	228	6.584	6.563	(0.998)	59359	1.12758	104.2338
19 Chrysene	228	6.605	6.595	(1.002)	91364	1.71070	158.1381
20 Benzo(b)fluoranthene	252	7.401	7.380	(0.962)	109597	1.93411	178.7896(M)
21 Benzo(k)fluoranthene	252	7.412	7.407	(0.964)	53104	0.81509	75.3474(QM)
22 Benzo(a)pyrene	252	7.626	7.610	(0.992)	63235	1.12175	103.6950
24 Indeno(1,2,3-cd)pyrene	276	8.454	8.427	(1.099)	49361	0.92737	85.7269(M)
25 Dibenzo(a,h)anthracene	278	8.480	8.454	(1.103)	15886	0.32077	29.6520
26 Benzo(g,h,i)perylene	276	8.678	8.646	(1.129)	54719	0.91856	84.9116

QC Flag Legend

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

Data File: 1AD29023.D

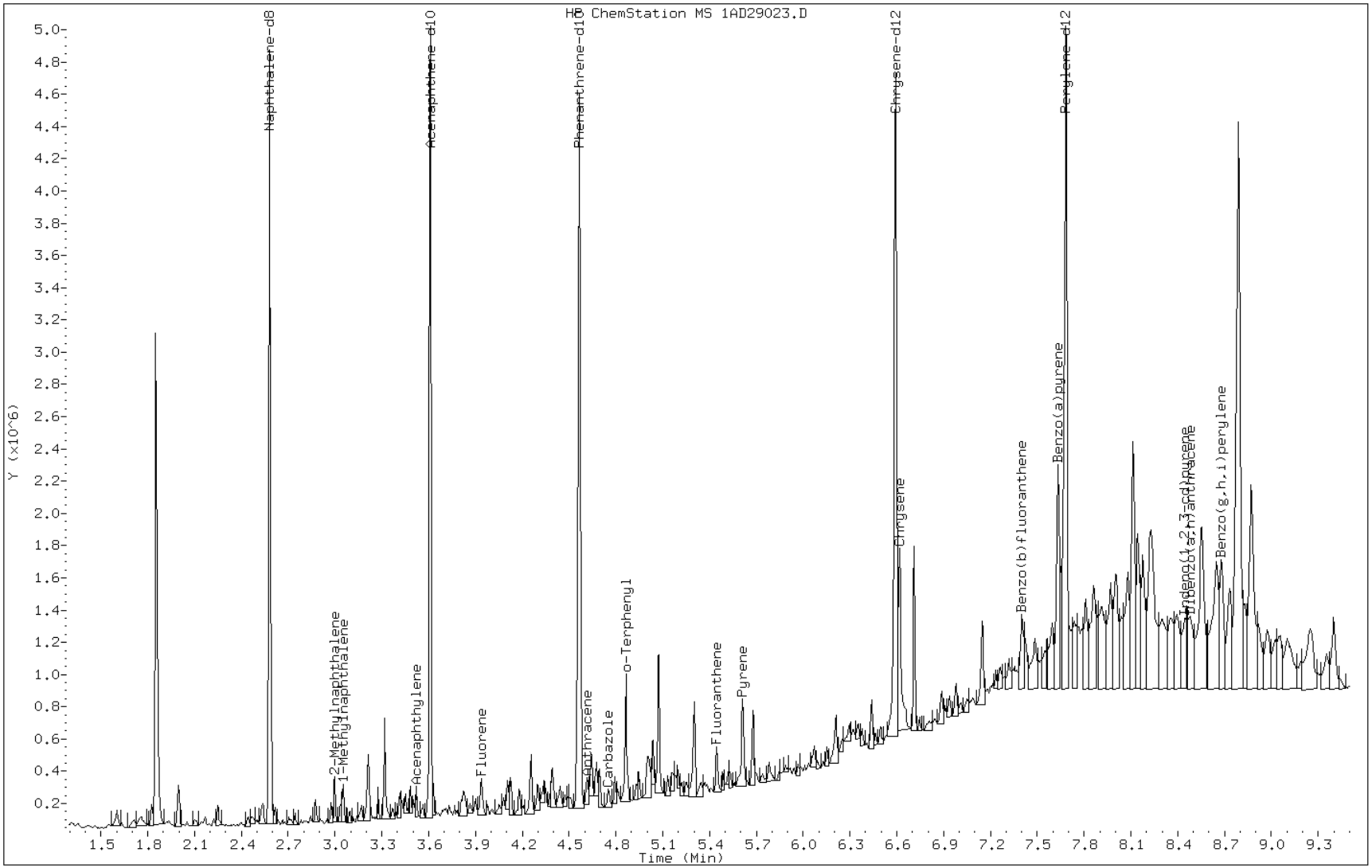
Date: 29-APR-2013 17:39

Client ID: CV0927B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a

Operator: SCC



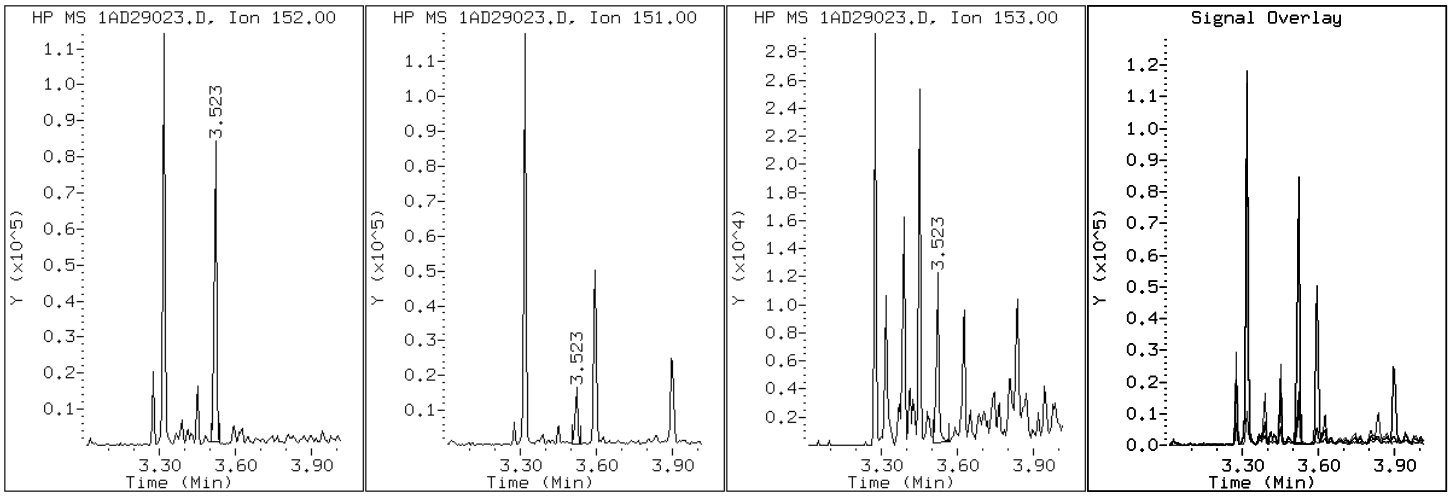
Data File: 1AD29023.D

Date: 29-APR-2013 17:39

Client ID: CV0927B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a Operator: SCC

5 Acenaphthylene



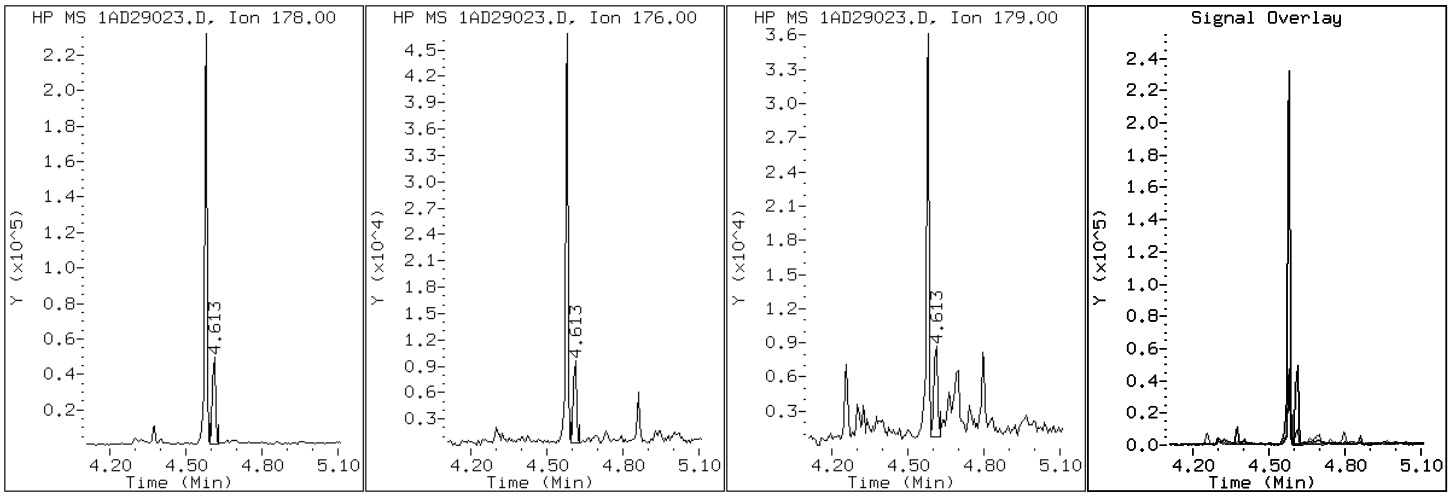
Data File: 1AD29023.D

Date: 29-APR-2013 17:39

Client ID: CV0927B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a Operator: SCC

12 Anthracene



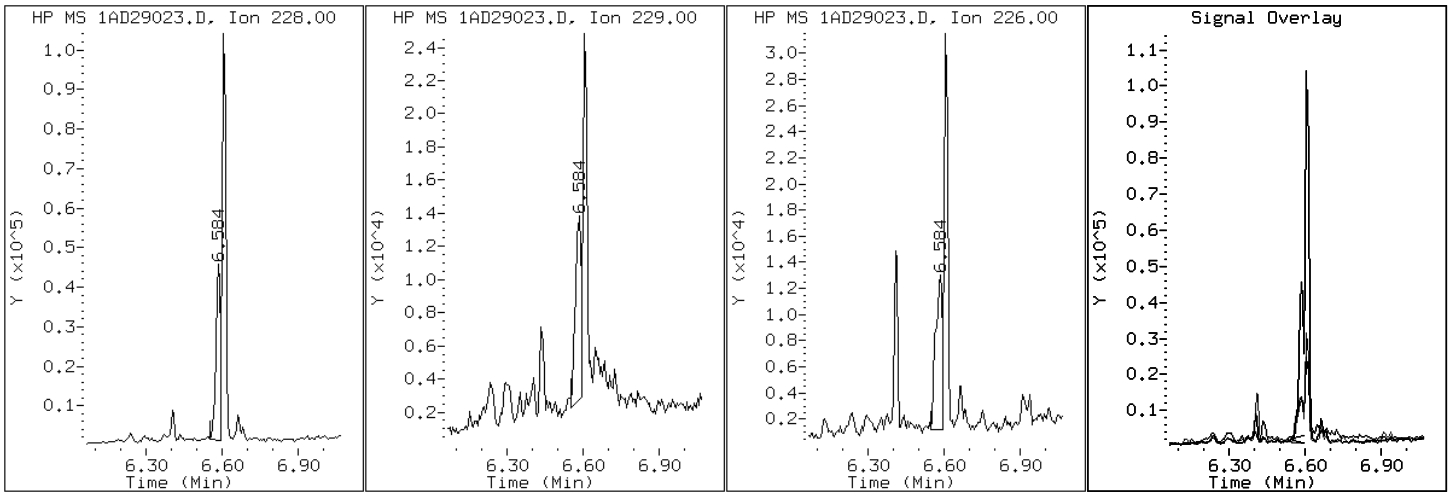
Data File: 1AD29023.D

Date: 29-APR-2013 17:39

Client ID: CV0927B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a Operator: SCC

17 Benzo(a)anthracene



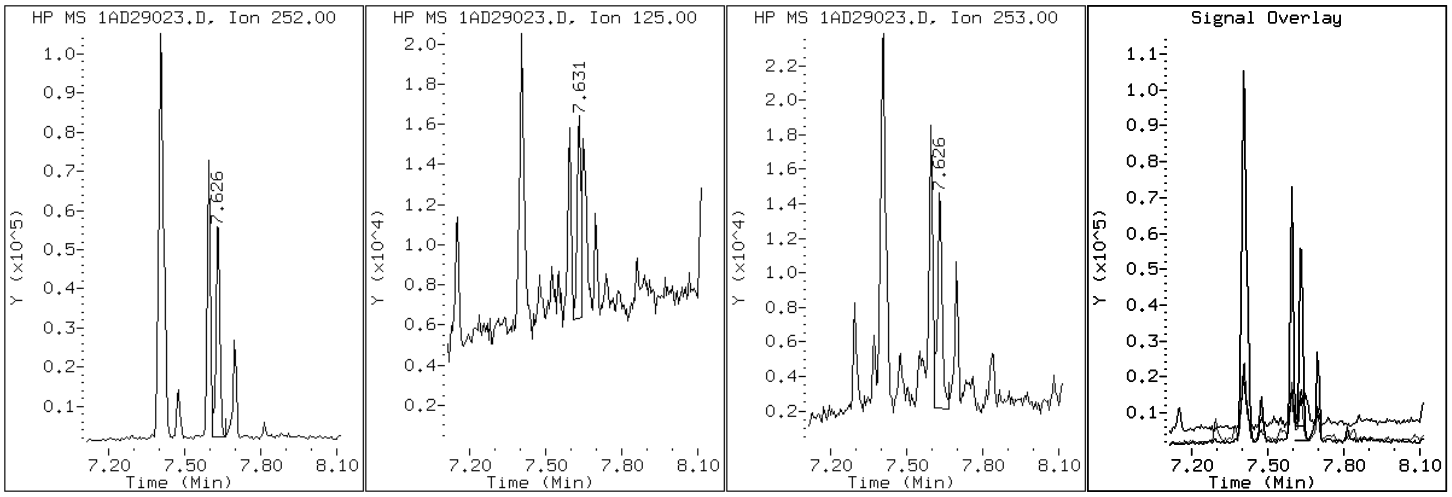
Data File: 1AD29023.D

Date: 29-APR-2013 17:39

Client ID: CV0927B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a Operator: SCC

22 Benzo(a)pyrene



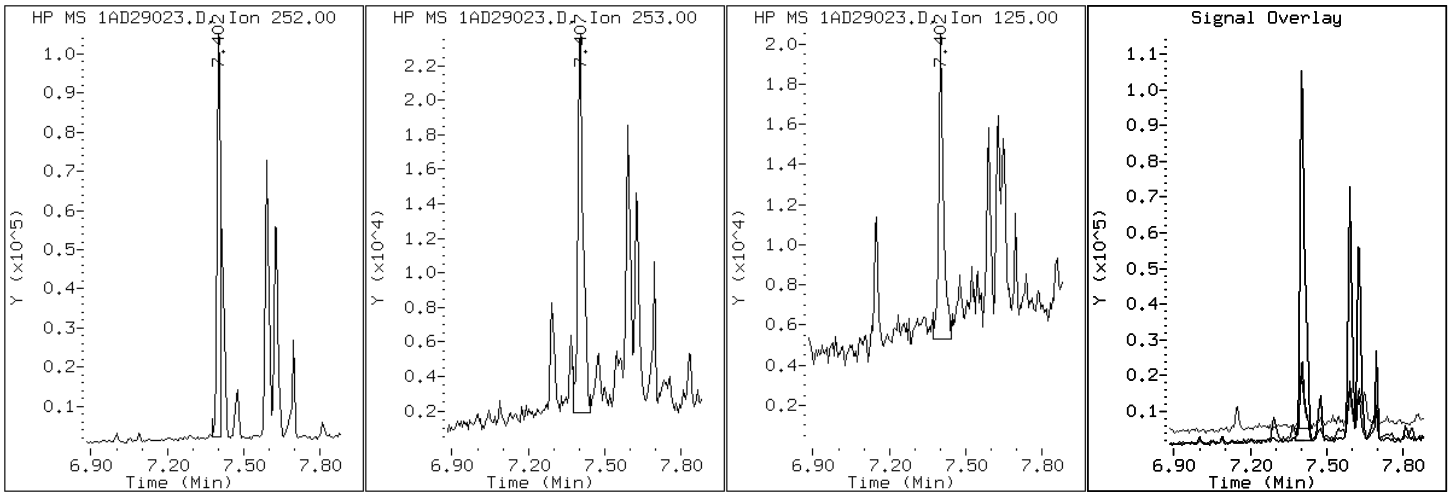
Data File: 1AD29023.D

Date: 29-APR-2013 17:39

Client ID: CV0927B-CS-SP | Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a | Operator: SCC

20 Benzo(b)fluoranthene



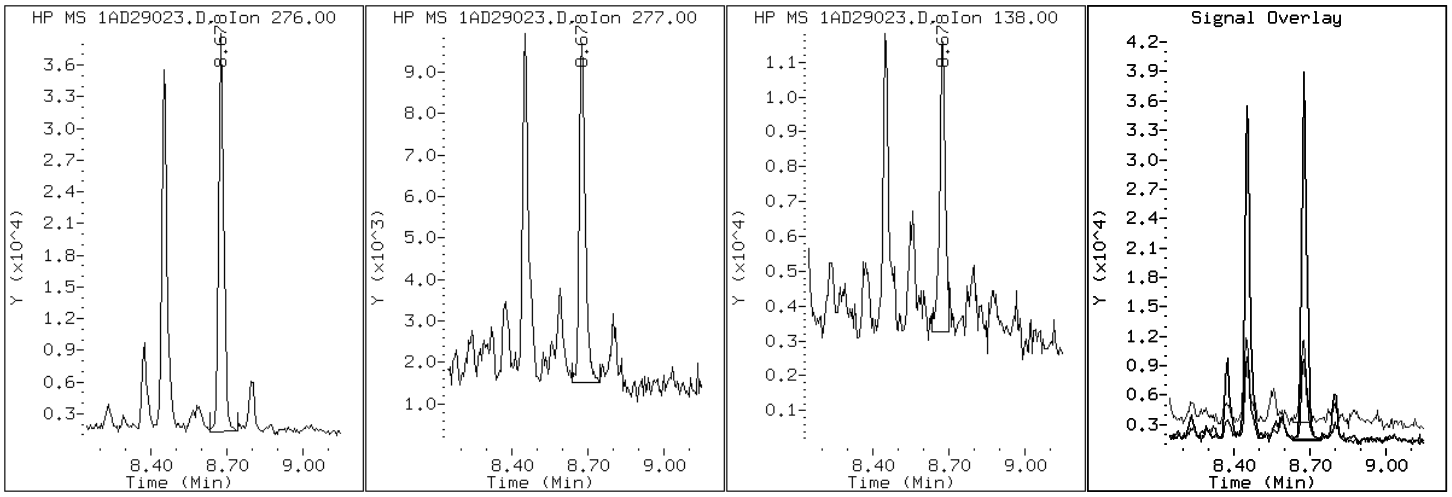
Data File: 1AD29023.D

Date: 29-APR-2013 17:39

Client ID: CV0927B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a Operator: SCC

26 Benzo(g,h,i)perylene



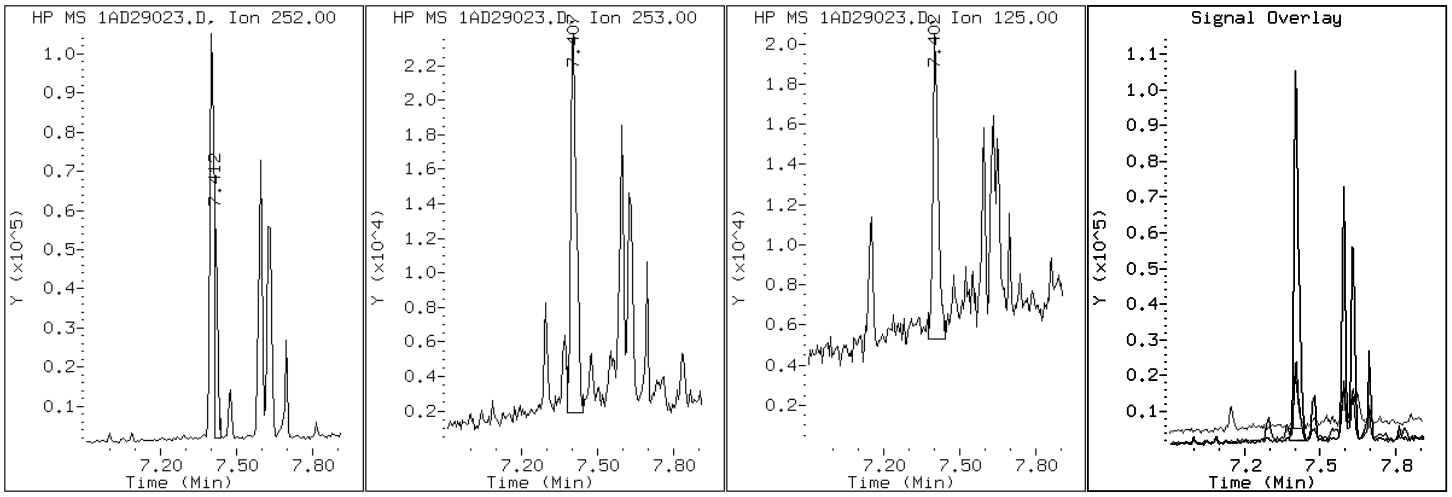
Data File: 1AD29023.D

Date: 29-APR-2013 17:39

Client ID: CV0927B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a Operator: SCC

21 Benzo(k)fluoranthene



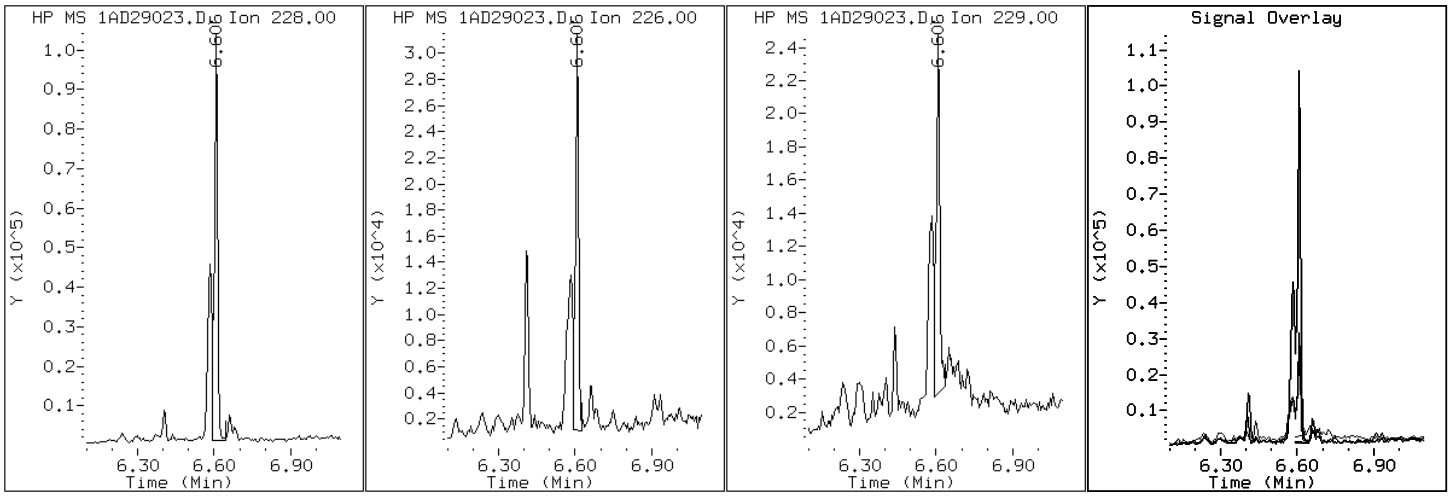
Data File: 1AD29023.D

Date: 29-APR-2013 17:39

Client ID: CV0927B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a Operator: SCC

19 Chrysene



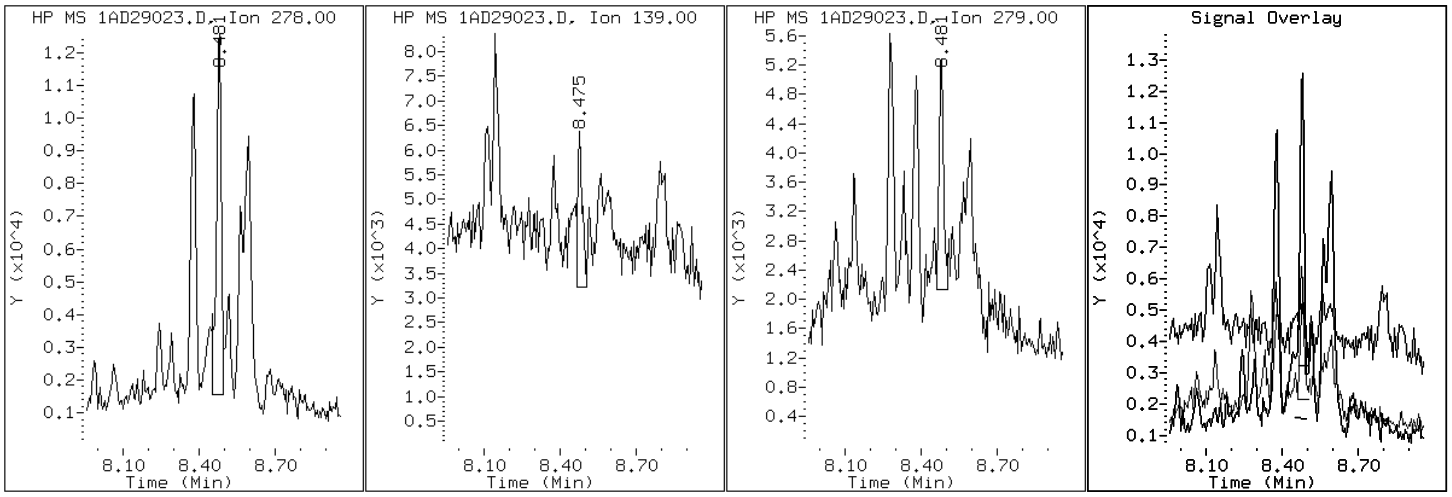
Data File: 1AD29023.D

Date: 29-APR-2013 17:39

Client ID: CV0927B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD29023.D

Date: 29-APR-2013 17:39

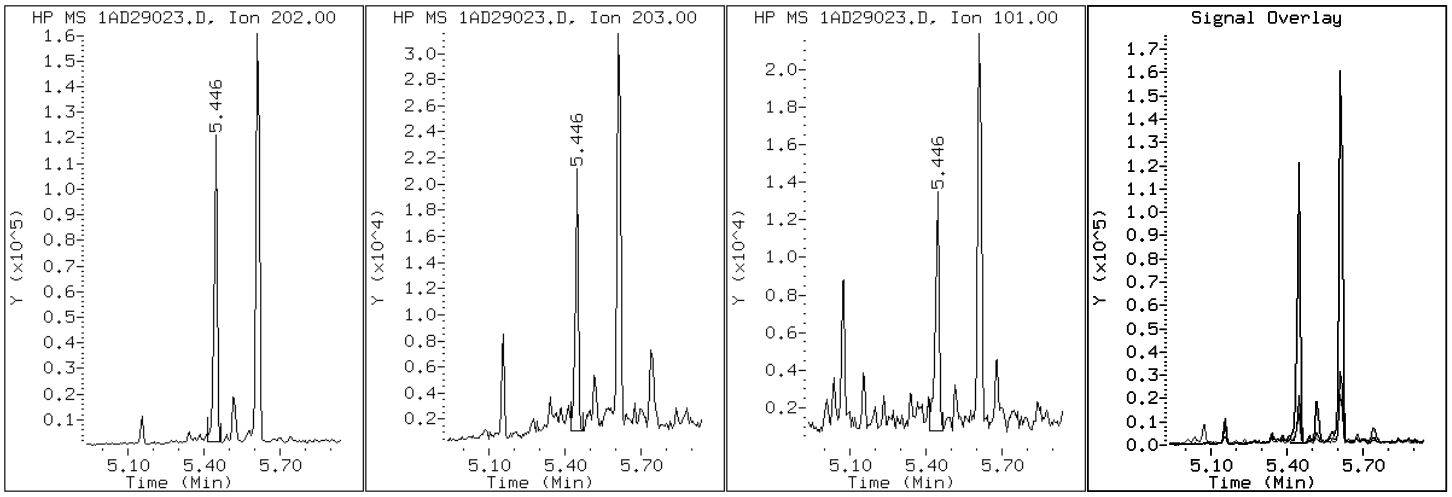
Client ID: CV0927B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a

Operator: SCC

15 Fluoranthene



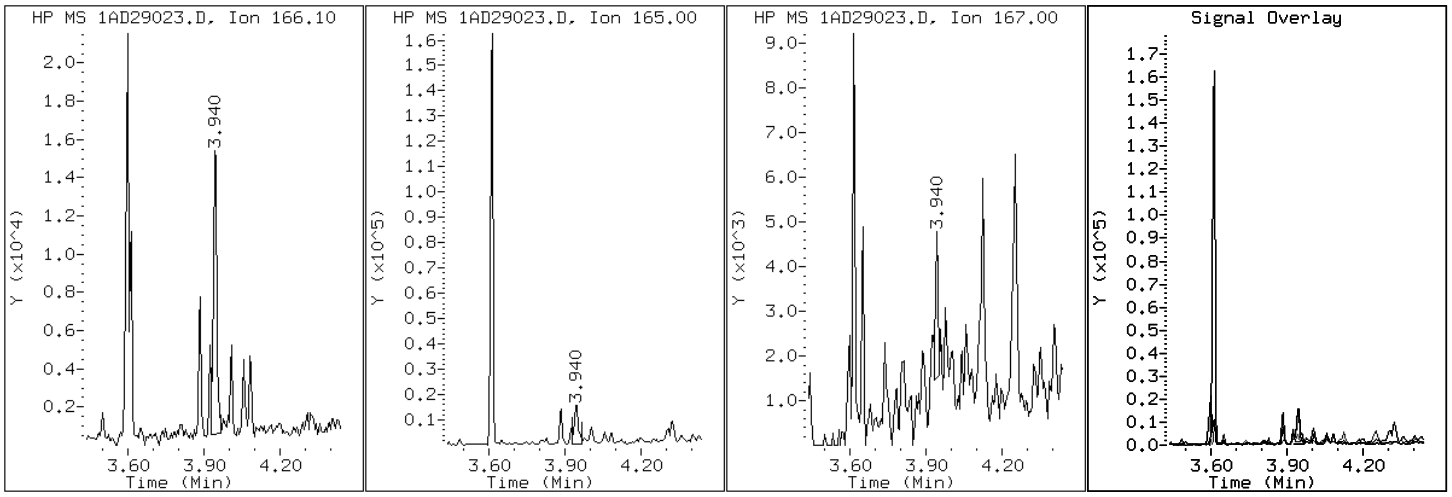
Data File: 1AD29023.D

Date: 29-APR-2013 17:39

Client ID: CV0927B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a Operator: SCC

9 Fluorene



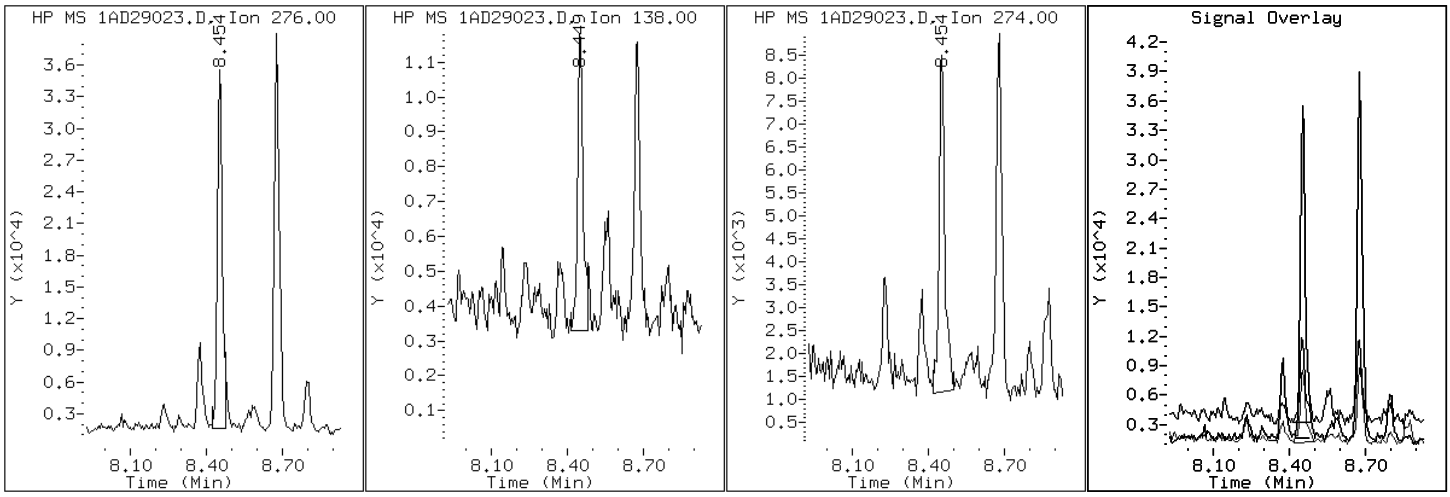
Data File: 1AD29023.D

Date: 29-APR-2013 17:39

Client ID: CV0927B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a Operator: SCC

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



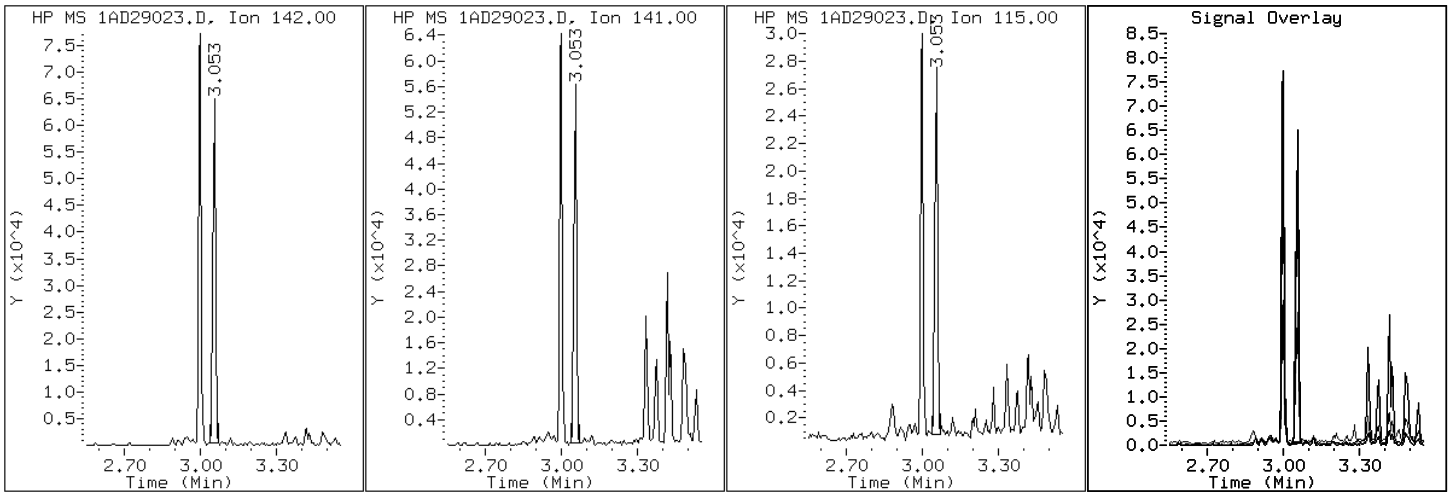
Data File: 1AD29023.D

Date: 29-APR-2013 17:39

Client ID: CV0927B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a Operator: SCC

4 1-Methylnaphthalene



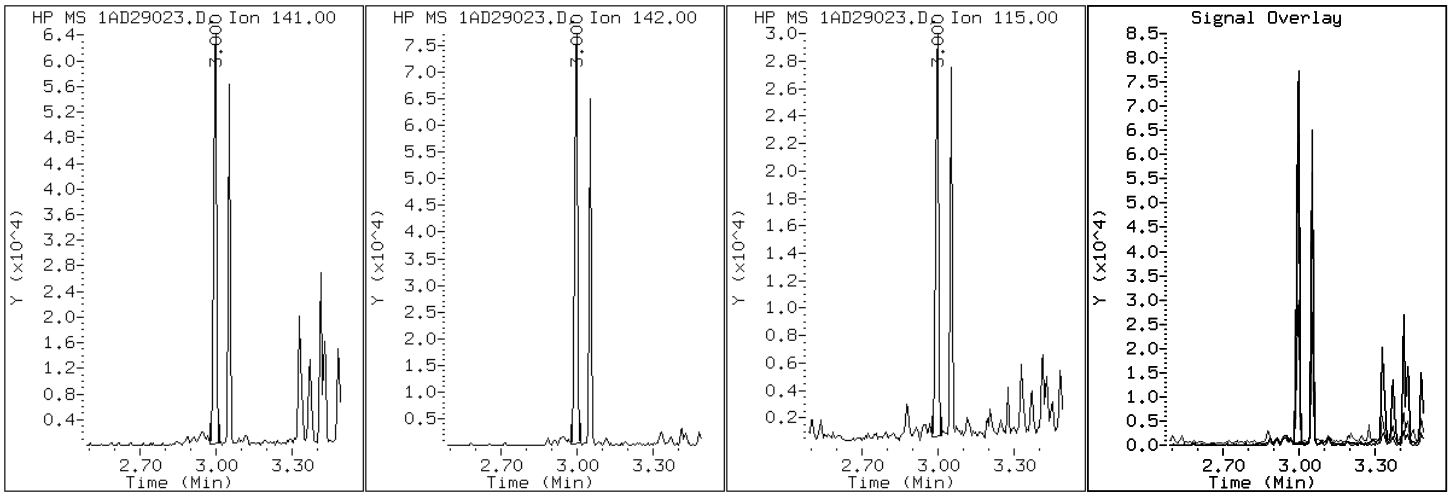
Data File: 1AD29023.D

Date: 29-APR-2013 17:39

Client ID: CV0927B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a Operator: SCC

3 2-Methylnaphthalene



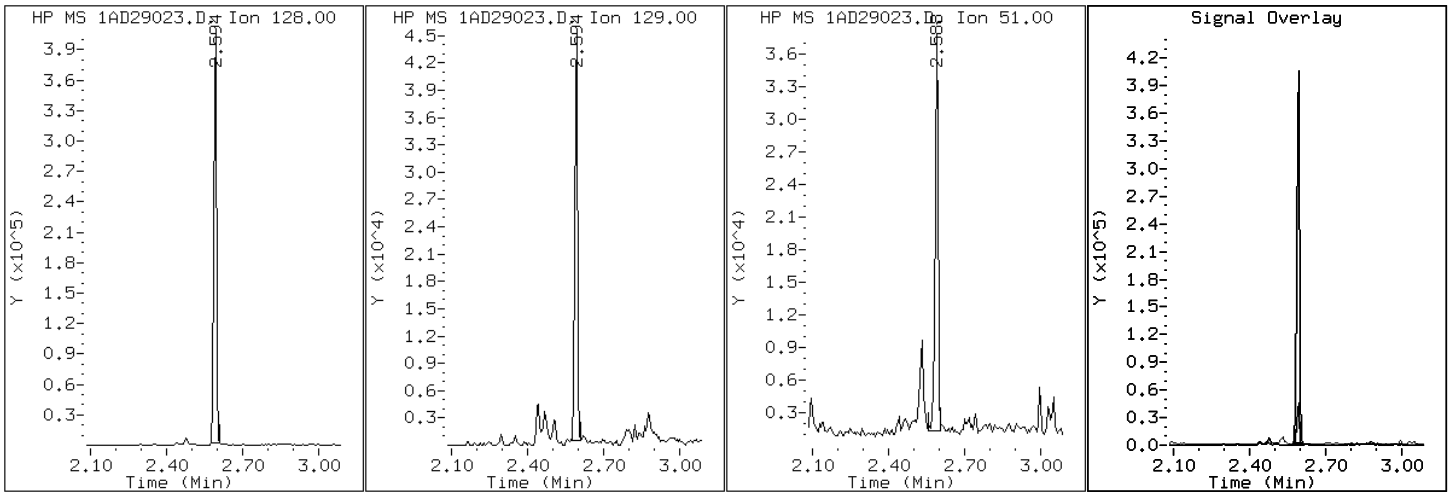
Data File: 1AD29023.D

Date: 29-APR-2013 17:39

Client ID: CV0927B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a Operator: SCC

2 Naphthalene



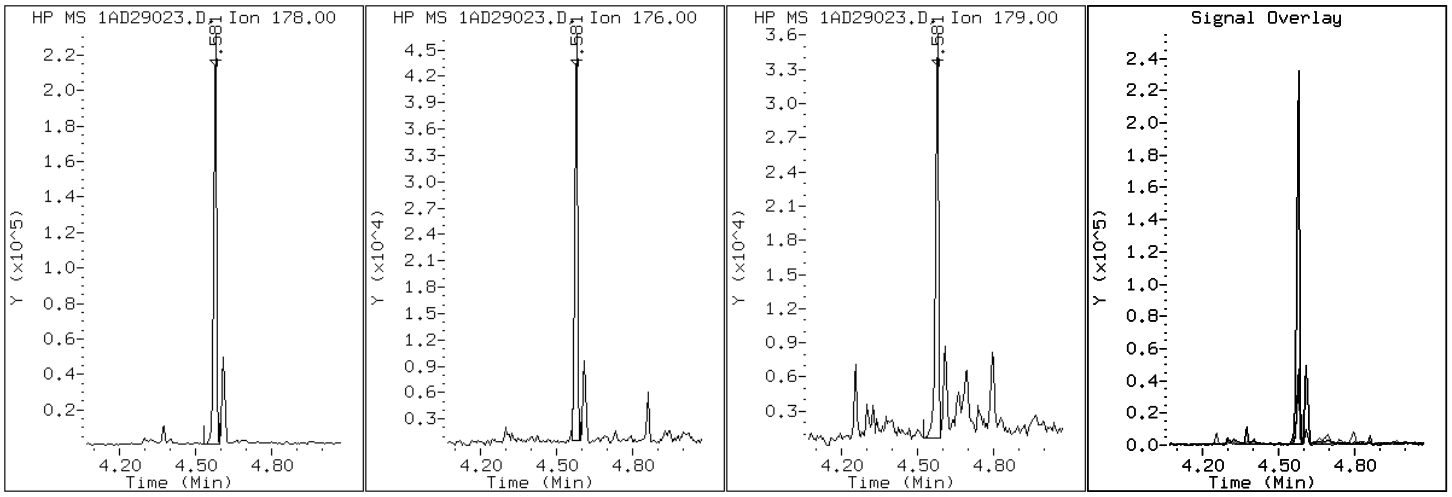
Data File: 1AD29023.D

Date: 29-APR-2013 17:39

Client ID: CV0927B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a Operator: SCC

11 Phenanthrene



Data File: 1AD29023.D

Date: 29-APR-2013 17:39

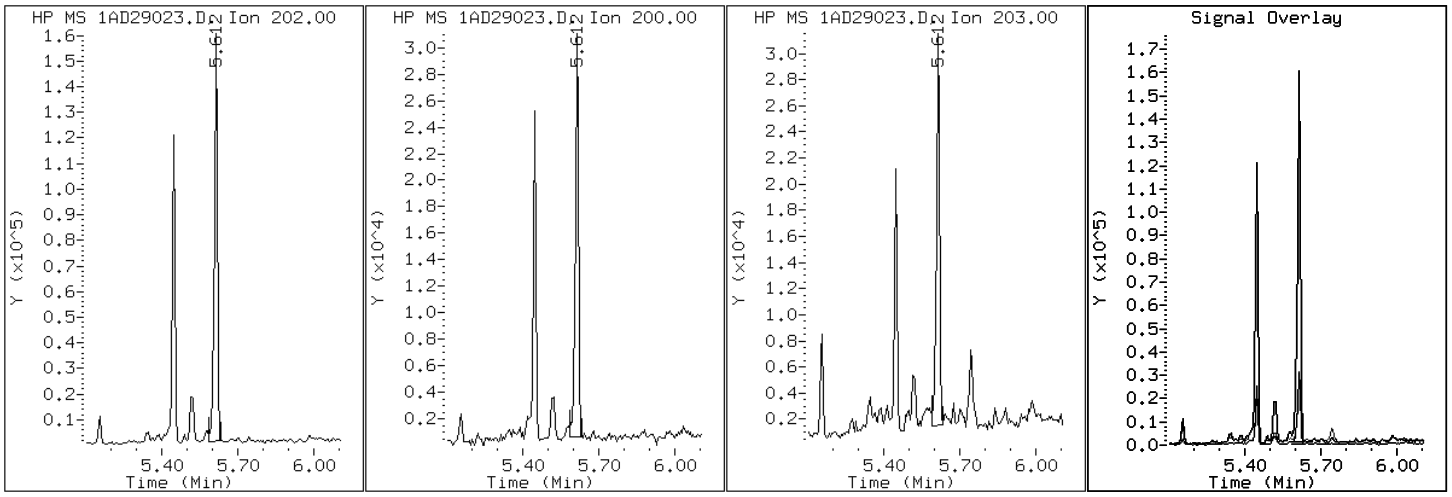
Client ID: CV0927B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-20-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD29023.D
Inj. Date and Time: 29-APR-2013 17:39
Instrument ID: BSMA5973.i
Client ID: CV0927B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

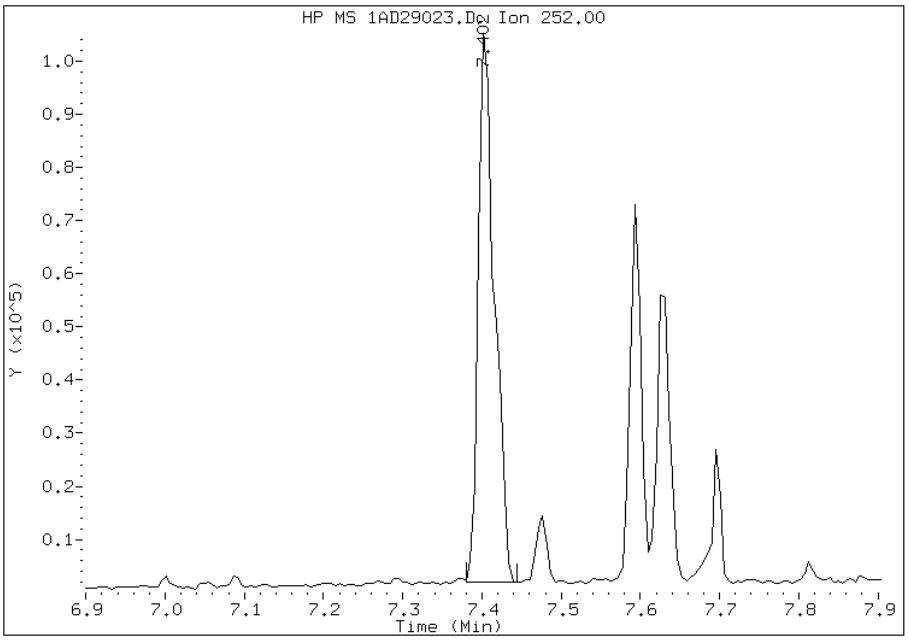
Processing Integration Results

RT: 7.40

Response: 143849

Amount: 3

Conc: 235



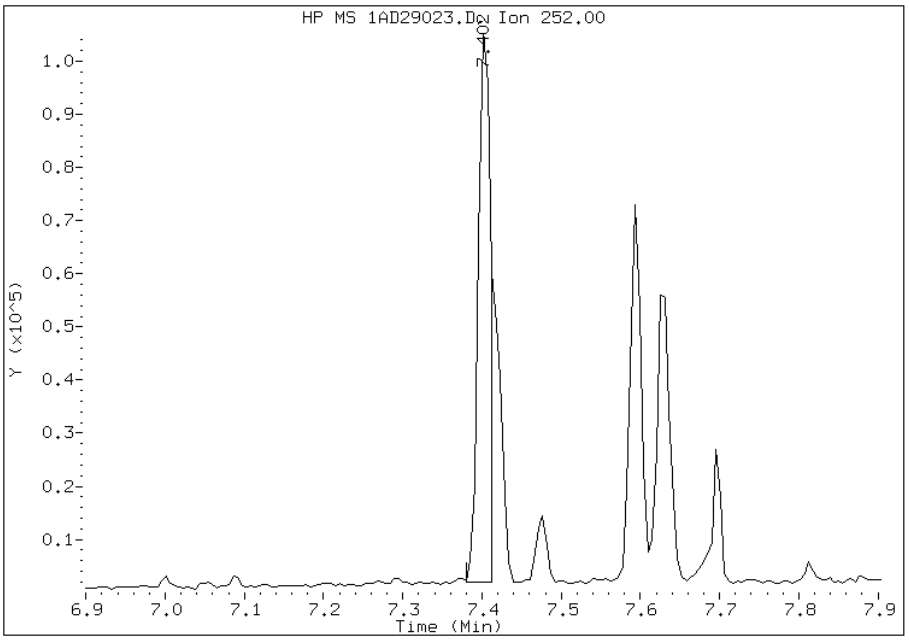
Manual Integration Results

RT: 7.40

Response: 109597

Amount: 2

Conc: 179



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:32
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29023.D
Inj. Date and Time: 29-APR-2013 17:39
Instrument ID: BSMA5973.i
Client ID: CV0927B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

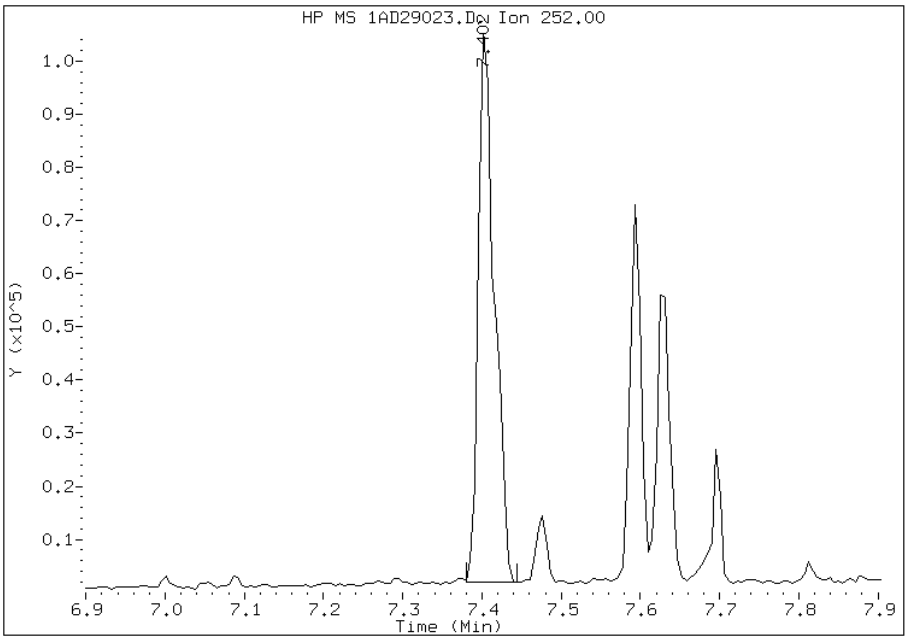
Processing Integration Results

RT: 7.40

Response: 143849

Amount: 2

Conc: 204



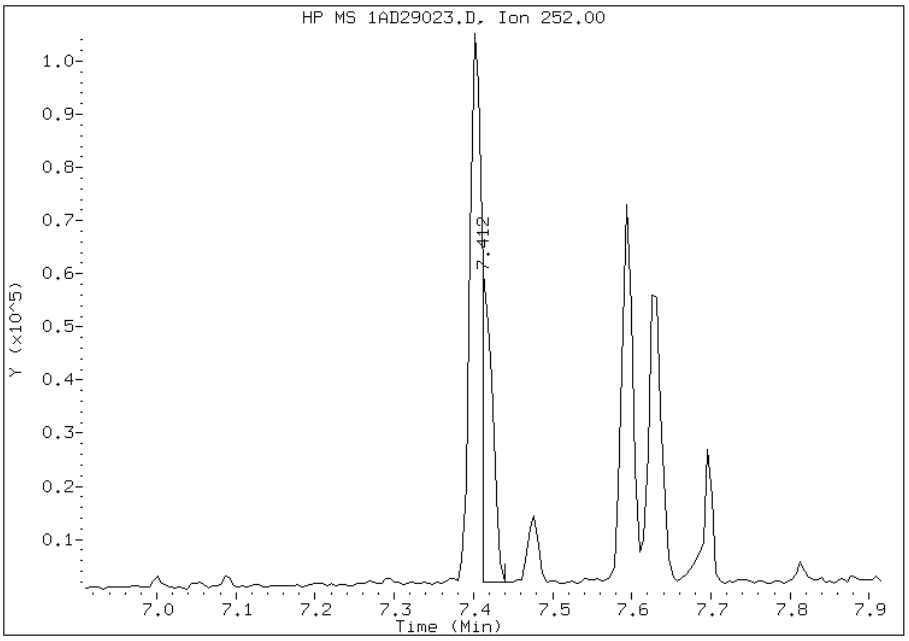
Manual Integration Results

RT: 7.41

Response: 53104

Amount: 1

Conc: 75



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29023.D
Inj. Date and Time: 29-APR-2013 17:39
Instrument ID: BSMA5973.i
Client ID: CV0927B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

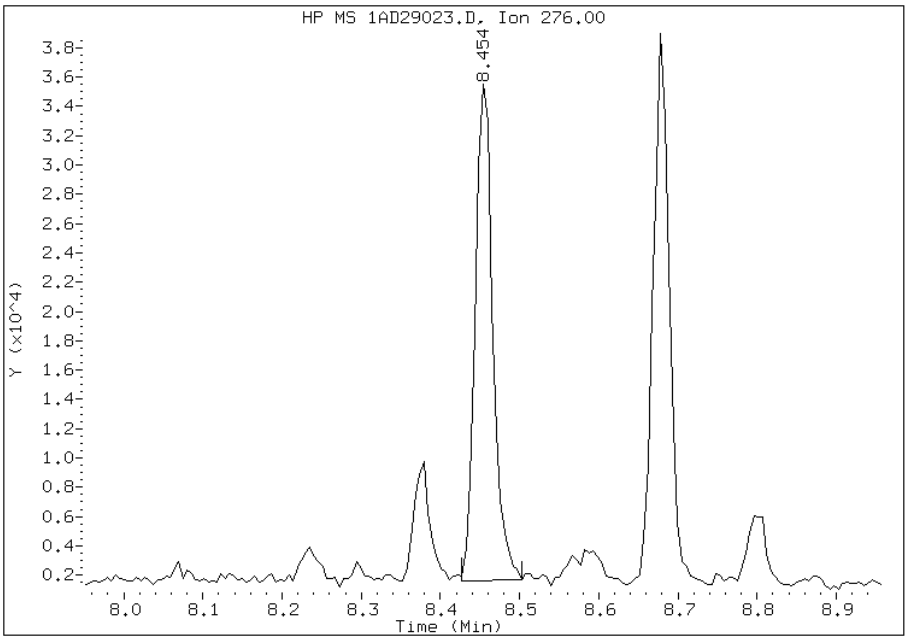
Processing Integration Results

RT: 8.45

Response: 51636

Amount: 1

Conc: 90



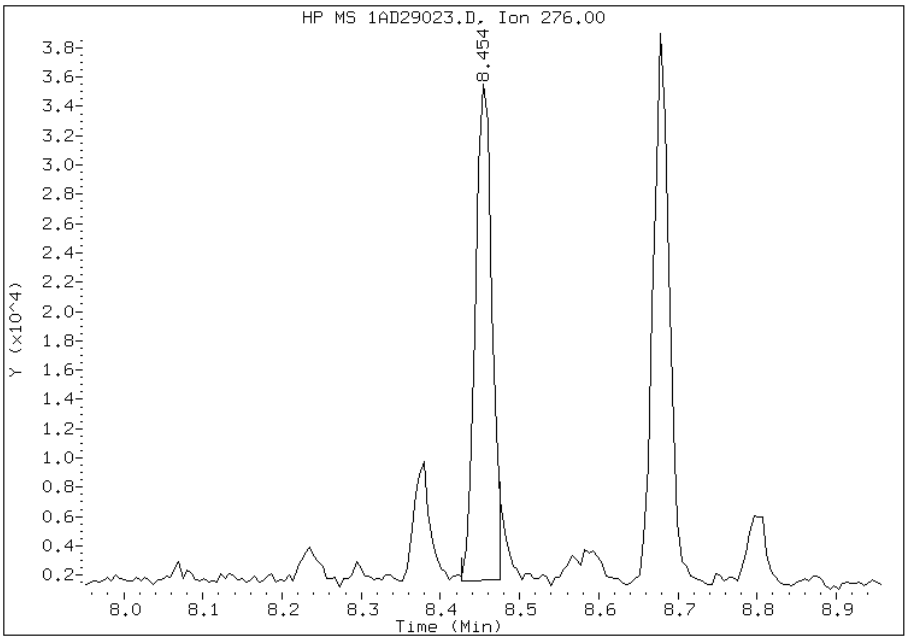
Manual Integration Results

RT: 8.45

Response: 49361

Amount: 1

Conc: 86



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:32
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-89695-1 Analy Batch No.: 136892

SDG No.: 68089695-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2013 10:03 Calibration End Date: 04/26/2013 11:34 Calibration ID: 2919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136892/3	1AD26003.D
Level 2	IC 660-136892/4	1AD26004.D
Level 3	IC 660-136892/5	1AD26005.D
Level 4	IC 660-136892/6	1AD26006.D
Level 5	ICIS 660-136892/7	1AD26007.D
Level 6	IC 660-136892/8	1AD26008.D
Level 7	IC 660-136892/9	1AD26009.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	0.9807 0.9678	1.0732 0.8900	1.0807	1.0246	0.9825	Ave		0.9999			0.0000	6.6		15.0			
2-Methylnaphthalene	0.5475 0.5304	0.6500 0.4770	0.6525	0.5874	0.5679	Ave		0.5733			0.0000	11.1		15.0			
1-Methylnaphthalene	0.6553 0.5728	0.7316 0.5089	0.7301	0.6482	0.5991	Ave		0.6351			0.0000	12.9		15.0			
Acenaphthylene	2.3664 2.1362	2.6542 1.8462	2.6916	2.4314	2.2380	Ave		2.3377			0.0000	12.7		15.0			
Acenaphthene	1.4118 1.1125	1.4011 0.9341	1.3816	1.2190	1.1215	Ave		1.2260			0.0000	14.8		15.0			
Fluorene	1.5097 1.3767	1.6462 1.1794	1.6636	1.5206	1.4287	Ave		1.4750			0.0000	11.3		15.0			
Phenanthrene	1.3907 1.0142	1.2926 0.9287	1.2725	1.1400	1.0724	Ave		1.1587			0.0000	14.4		15.0			
Anthracene	1.3104 1.0706	1.3619 0.9491	1.3564	1.2393	1.1461	Ave		1.2048			0.0000	13.0		15.0			
Carbazole	1.1993 1.0651	1.2721 1.0036	1.3075	1.1642	1.1242	Ave		1.1623			0.0000	9.3		15.0			
Fluoranthene	1.3009 1.2420	1.4074 1.1640	1.5310	1.3979	1.3252	Ave		1.3383			0.0000	9.0		15.0			
Pyrene	1.4167 1.4769	1.6244 1.4080	1.6725	1.5706	1.5132	Ave		1.5260			0.0000	6.6		15.0			
Benzo[a]anthracene	1.5532 1.2283	1.2438 1.3069	1.3074	1.2316	1.2729	Ave		1.3063			0.0000	8.7		15.0			
Chrysene	1.5597 1.2058	1.4759 1.1272	1.3919	1.3009	1.2153	Ave		1.3253			0.0000	11.9		15.0			
Benzo[b]fluoranthene	1.0058 1.1221	1.2872 1.1499	1.3036	1.2968	1.3352	Ave		1.2144			0.0000	10.1		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.: 680-89695-1 Analy Batch No.: 136892

SDG No.: 68089695-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2013 10:03 Calibration End Date: 04/26/2013 11:34 Calibration ID: 2919

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	1.5807 1.2951	1.4811 1.1583	1.6305	1.3756	1.2523	Ave		1.3962			0.0000	12.5		15.0			
Benzo[a]pyrene	1.0264 1.1766	1.1712 1.1154	1.3812	1.3107	1.2749	Ave		1.2081			0.0000	10.1		15.0			
Indeno[1,2,3-cd]pyrene	0.9109 1.1772	1.0019 1.2427	1.2020	1.2085	1.2416	Ave		1.1407			0.0000	11.4		15.0			
Dibenz(a,h)anthracene	0.8117 1.0574	1.0829 1.0146	1.2099	1.1482	1.1048	Ave		1.0613			0.0000	11.9		15.0			
Benzo[g,h,i]perylene	1.1500 1.2201	1.3387 1.2159	1.4017	1.3373	1.2727	Ave		1.2766			0.0000	6.9		15.0			
o-Terphenyl	0.7073 0.5831	0.7372 0.5170	0.7524	0.6639	0.6189	Ave		0.6543			0.0000	13.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89695-1 Analy B

SDG No.: 68089695-1

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

Calibration Start Date: 04/26/2013 10:03 Calibration End Date: 04/26/2013 11:34 Calibra

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136892/3	1AD26003.D
Level 2	IC 660-136892/4	1AD26004.D
Level 3	IC 660-136892/5	1AD26005.D
Level 4	IC 660-136892/6	1AD26006.D
Level 5	ICIS 660-136892/7	1AD26007.D
Level 6	IC 660-136892/8	1AD26008.D
Level 7	IC 660-136892/9	1AD26009.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	11316 1510520	61217 2445644	320082	595222	1158716	0.200 30.0	1. 50
2-Methylnaphthalene	NPT	Ave	6318 827941	37078 1310841	193264	341254	669822	0.200 30.0	1. 50
1-Methylnaphthalene	NPT	Ave	7562 894050	41731 1398370	216239	376560	706538	0.200 30.0	1. 50
Acenaphthylene	ANT	Ave	12402 1556064	68056 2504346	366926	648059	1265667	0.200 30.0	1. 50
Acenaphthene	ANT	Ave	7399 810394	35926 1267057	188346	324917	634267	0.200 30.0	1. 50
Fluorene	ANT	Ave	7912 1002855	42211 1599840	226787	405299	807968	0.200 30.0	1. 50
Phenanthrene	PHN	Ave	12552 1299367	56771 2139281	300982	533287	1040972	0.200 30.0	1. 50
Anthracene	PHN	Ave	11827 1371502	59817 2186210	320832	579771	1112517	0.200 30.0	1. 50
Carbazole	PHN	Ave	10825 1364561	55869 2311786	309273	544612	1091227	0.200 30.0	1. 50
Fluoranthene	PHN	Ave	11742 1591115	61813 2681447	362121	653973	1286350	0.200 30.0	1. 50
Pyrene	CRY	Ave	12588 1716784	69806 2760027	387490	693219	1367080	0.200 30.0	1. 50
Benzo[a]anthracene	CRY	Ave	13801 1427778	53450 2561817	302918	543586	1149947	0.200 30.0	1. 50
Chrysene	CRY	Ave	13859 1401601	63425 2209729	322491	574179	1097962	0.200 30.0	1. 50
Benzo[b]fluoranthene	PRY	Ave	9306 1402018	56273 2501570	315397	597877	1243307	0.200 30.0	1. 50
Benzo[k]fluoranthene	PRY	Ave	14625 1618107	64750 2519945	394484	634191	1166129	0.200 30.0	1. 50
Benzo[a]pyrene	PRY	Ave	9497 1470103	51202 2426657	334183	604286	1187145	0.200 30.0	1. 50
Indeno[1,2,3-cd]pyrene	PRY	Ave	8428 1470861	43801 2703546	290809	557142	1156108	0.200 30.0	1. 50
Dibenz(a,h)anthracene	PRY	Ave	7510 1321140	47341 2207196	292736	529334	1028761	0.200 30.0	1. 50
Benzo[g,h,i]perylene	PRY	Ave	10640 1524482	58526 2645132	339141	616524	1185137	0.200 30.0	1. 50
o-Terphenyl	PHN	Ave	6384 747046	32378 1190919	177967	310562	600782	0.200 30.0	1. 50

Curve Type Legend:
Ave = Average ISTD

136892

N

2919

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\BSMA5973.i\1A042613.b\1AD26003.D
Lab Smp Id: IC-1531396
Inj Date : 26-APR-2013 10:03
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 11:03 Cal File: 1AD26007.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	2.578	2.580	(1.000)	2307813	40.0000	
* 6 Acenaphthene-d10	164	3.609	3.606	(1.000)	1048180	40.0000	
* 10 Phenanthrene-d10	188	4.560	4.562	(1.000)	1805166	40.0000	
$ 14 o-Terphenyl	230	4.859	4.861	(1.066)	6384	0.20000	0.1909
* 18 Chrysene-d12	240	6.579	6.581	(1.000)	1777148	40.0000	
* 23 Perylene-d12	264	7.664	7.666	(1.000)	1850467	40.0000	
2 Naphthalene	128	2.589	2.591	(1.004)	11316	0.20000	0.2368
3 2-Methylnaphthalene	141	2.995	2.997	(1.162)	6318	0.20000	0.2274
4 1-Methylnaphthalene	142	3.048	3.050	(1.182)	7562	0.20000	0.1607
5 Acenaphthylene	152	3.518	3.520	(0.975)	12402	0.20000	0.3039
7 Acenaphthene	154	3.625	3.627	(1.004)	7399	0.20000	0.4114
9 Fluorene	166	3.935	3.942	(1.090)	7912	0.20000	0.4114
11 Phenanthrene	178	4.571	4.578	(1.002)	12552	0.20000	0.1032
12 Anthracene	178	4.603	4.610	(1.009)	11827	0.20000	0.2150
13 Carbazole	167	4.731	4.738	(1.037)	10825	0.20000	0.0501
15 Fluoranthene	202	5.436	5.438	(1.192)	11742	0.20000	0.0685
16 Pyrene	202	5.602	5.604	(0.851)	12588	0.20000	0.1856
17 Benzo(a)anthracene	228	6.569	6.565	(0.998)	13801	0.20000	0.2377
19 Chrysene	228	6.590	6.597	(1.002)	13859	0.20000	0.2353
20 Benzo(b)fluoranthene	252	7.381	7.388	(0.963)	9306	0.20000	0.1656
21 Benzo(k)fluoranthene	252	7.397	7.409	(0.965)	14625	0.20000	0.2264(M)
22 Benzo(a)pyrene	252	7.605	7.612	(0.992)	9497	0.20000	-0.7697(a)
24 Indeno(1,2,3-cd)pyrene	276	8.417	8.430	(1.098)	8428	0.20000	0.3771(M)
25 Dibenzo(a,h)anthracene	278	8.444	8.457	(1.102)	7510	0.20000	0.1529
26 Benzo(g,h,i)perylene	276	8.631	8.654	(1.126)	10640	0.20000	0.1801(M)

QC Flag Legend

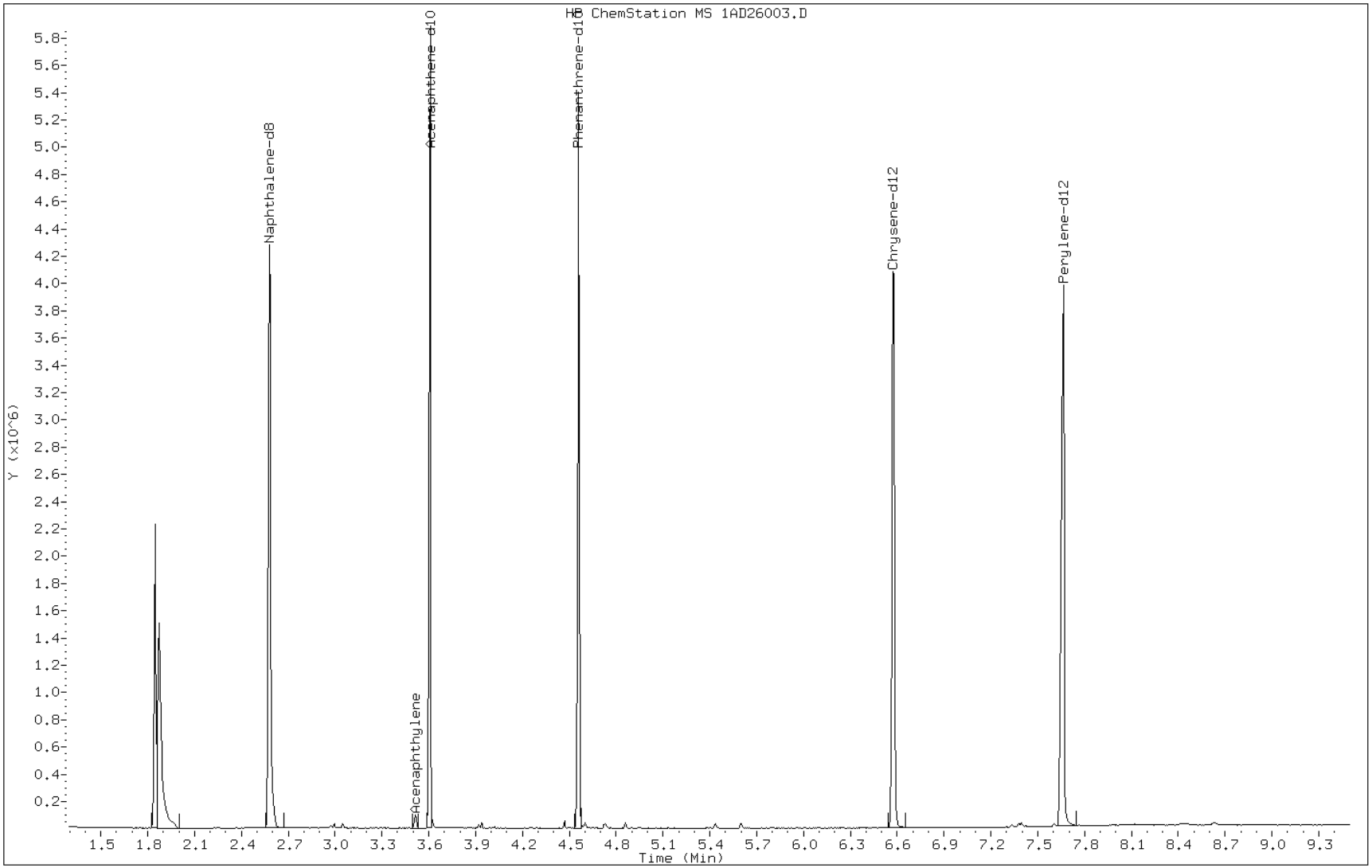
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: 1AD26003.D

Date: 26-APR-2013 10:03

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531396 Operator: SCC



Manual Integration Report

Data File: 1AD26003.D
Inj. Date and Time: 26-APR-2013 10:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/26/2013

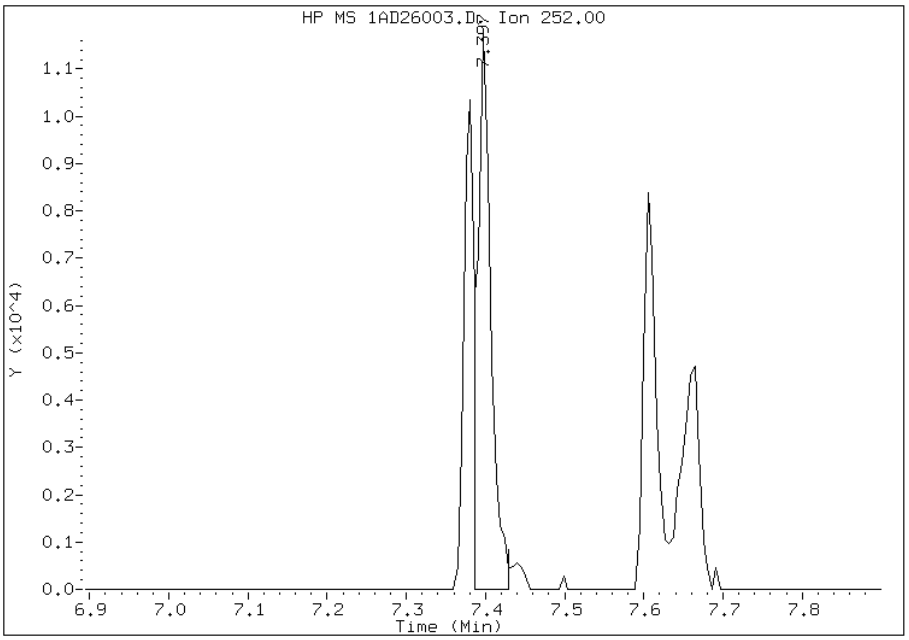
Processing Integration Results

RT: 7.40

Response: 14089

Amount: 0

Conc: 0



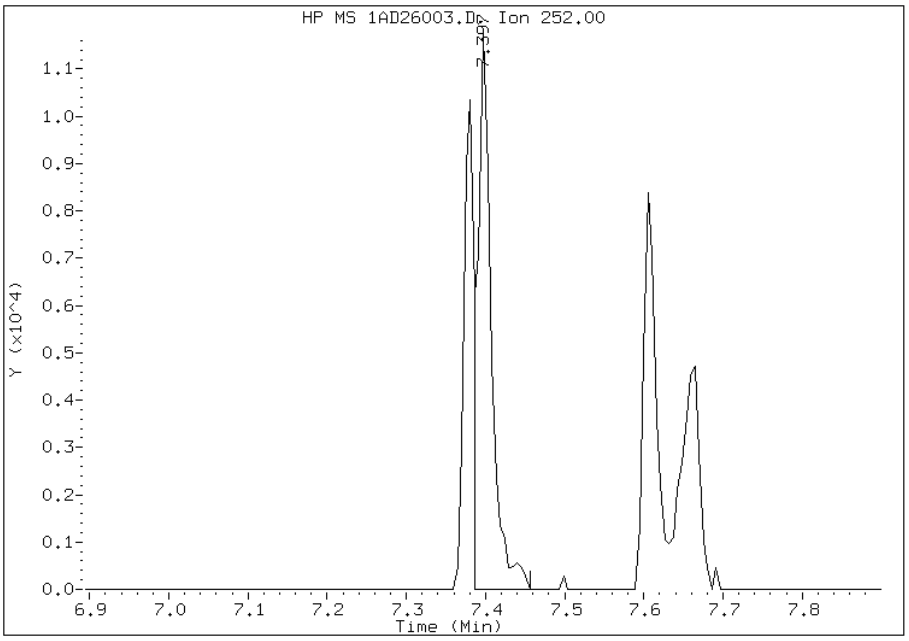
Manual Integration Results

RT: 7.40

Response: 14625

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26003.D
Inj. Date and Time: 26-APR-2013 10:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/26/2013

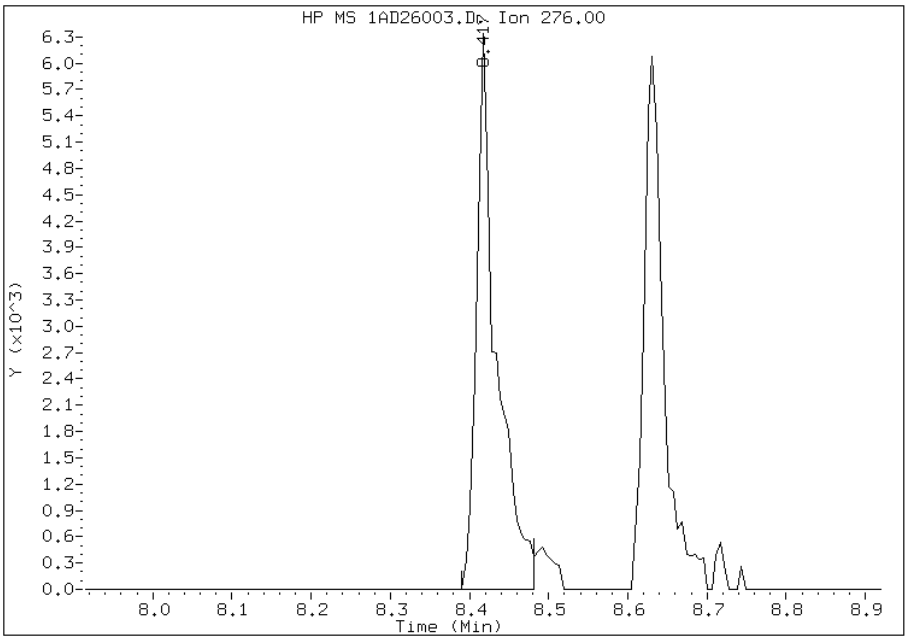
Processing Integration Results

RT: 8.42

Response: 10930

Amount: 0

Conc: 0



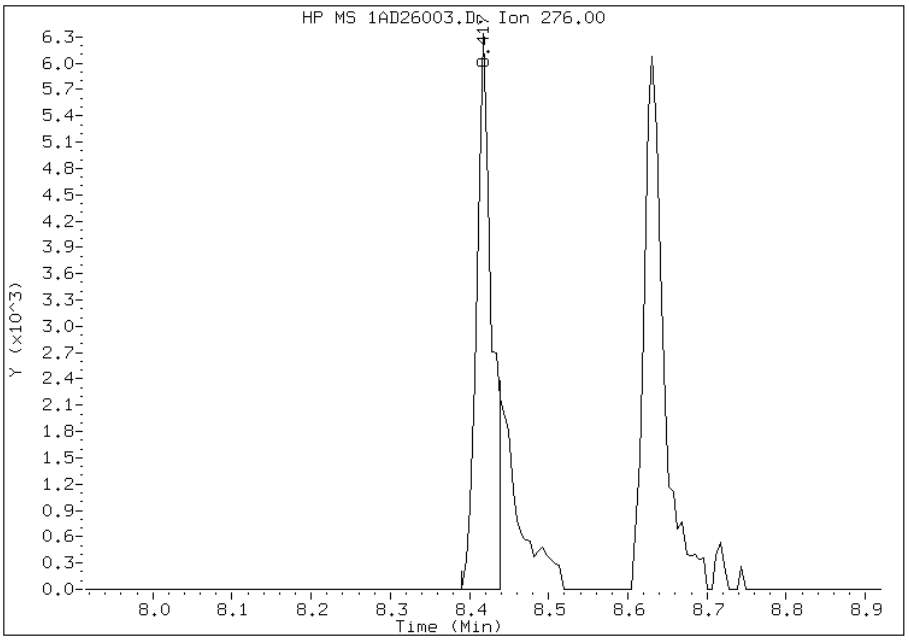
Manual Integration Results

RT: 8.42

Response: 8428

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD26003.D
Inj. Date and Time: 26-APR-2013 10:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/26/2013

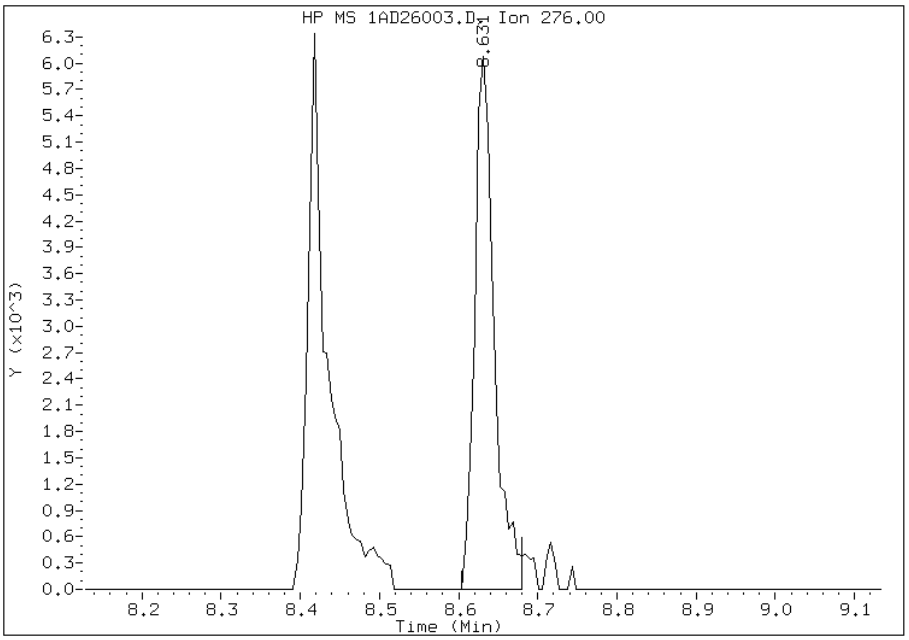
Processing Integration Results

RT: 8.63

Response: 10297

Amount: 0

Conc: 0



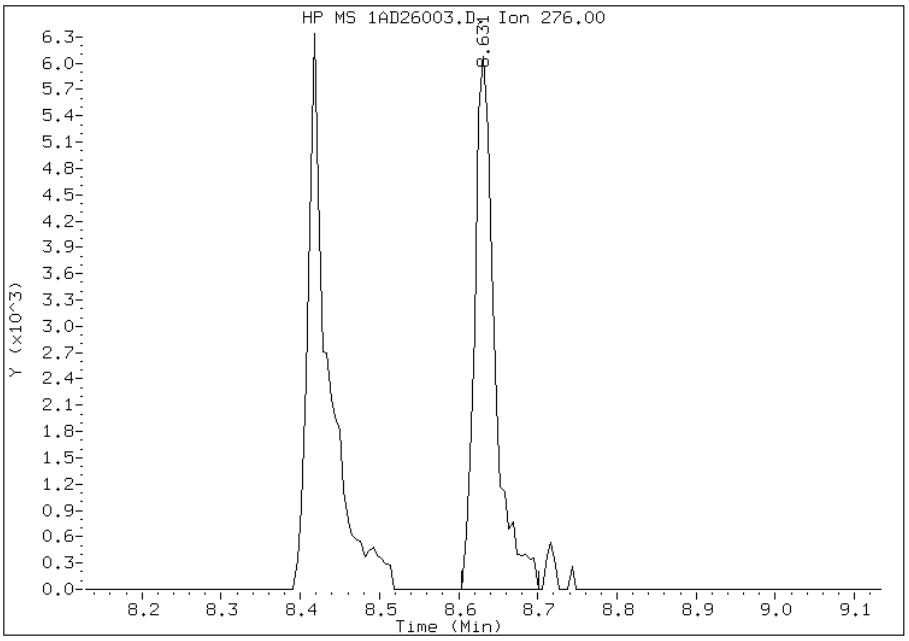
Manual Integration Results

RT: 8.63

Response: 10640

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:51
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26004.D
Lab Smp Id: IC-1531398
Inj Date : 26-APR-2013 10:18
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 10:03 Cal File: 1AD26003.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	2.581	2.580	(1.000)	2281622	40.0000	
* 6 Acenaphthene-d10	164	3.607	3.606	(1.000)	1025638	40.0000	
* 10 Phenanthrene-d10	188	4.558	4.562	(1.000)	1756807	40.0000	
$ 14 o-Terphenyl	230	4.857	4.861	(1.066)	32378	1.00000	0.9805
* 18 Chrysene-d12	240	6.577	6.581	(1.000)	1718926	40.0000	
* 23 Perylene-d12	264	7.656	7.666	(1.000)	1748681	40.0000	
2 Naphthalene	128	2.592	2.591	(1.004)	61217	1.00000	1.0359
3 2-Methylnaphthalene	141	2.993	2.997	(1.159)	37078	1.00000	1.0345
4 1-Methylnaphthalene	142	3.051	3.050	(1.182)	41731	1.00000	0.9917
5 Acenaphthylene	152	3.516	3.520	(0.975)	68056	1.00000	1.0573
7 Acenaphthene	154	3.623	3.627	(1.004)	35926	1.00000	1.1516
9 Fluorene	166	3.938	3.942	(1.092)	42211	1.00000	1.1307
11 Phenanthrene	178	4.574	4.578	(1.004)	56771	1.00000	0.9390
12 Anthracene	178	4.606	4.610	(1.011)	59817	1.00000	0.9961
13 Carbazole	167	4.734	4.738	(1.039)	55869	1.00000	0.9041
15 Fluoranthene	202	5.434	5.438	(1.192)	61813	1.00000	0.8589
16 Pyrene	202	5.600	5.604	(0.851)	69806	1.00000	1.0644
17 Benzo(a)anthracene	228	6.561	6.565	(0.998)	53450	1.00000	0.9521
19 Chrysene	228	6.588	6.597	(1.002)	63425	1.00000	1.1136
20 Benzo(b)fluoranthene	252	7.379	7.388	(0.964)	56273	1.00000	1.0599
21 Benzo(k)fluoranthene	252	7.400	7.409	(0.967)	64750	1.00000	1.0607(M)
22 Benzo(a)pyrene	252	7.603	7.612	(0.993)	51202	1.00000	0.0904
24 Indeno(1,2,3-cd)pyrene	276	8.410	8.430	(1.098)	43801	1.00000	1.0407(M)
25 Dibenzo(a,h)anthracene	278	8.436	8.457	(1.102)	47341	1.00000	1.0203(M)
26 Benzo(g,h,i)perylene	276	8.623	8.654	(1.126)	58526	1.00000	1.0486(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD26004.D

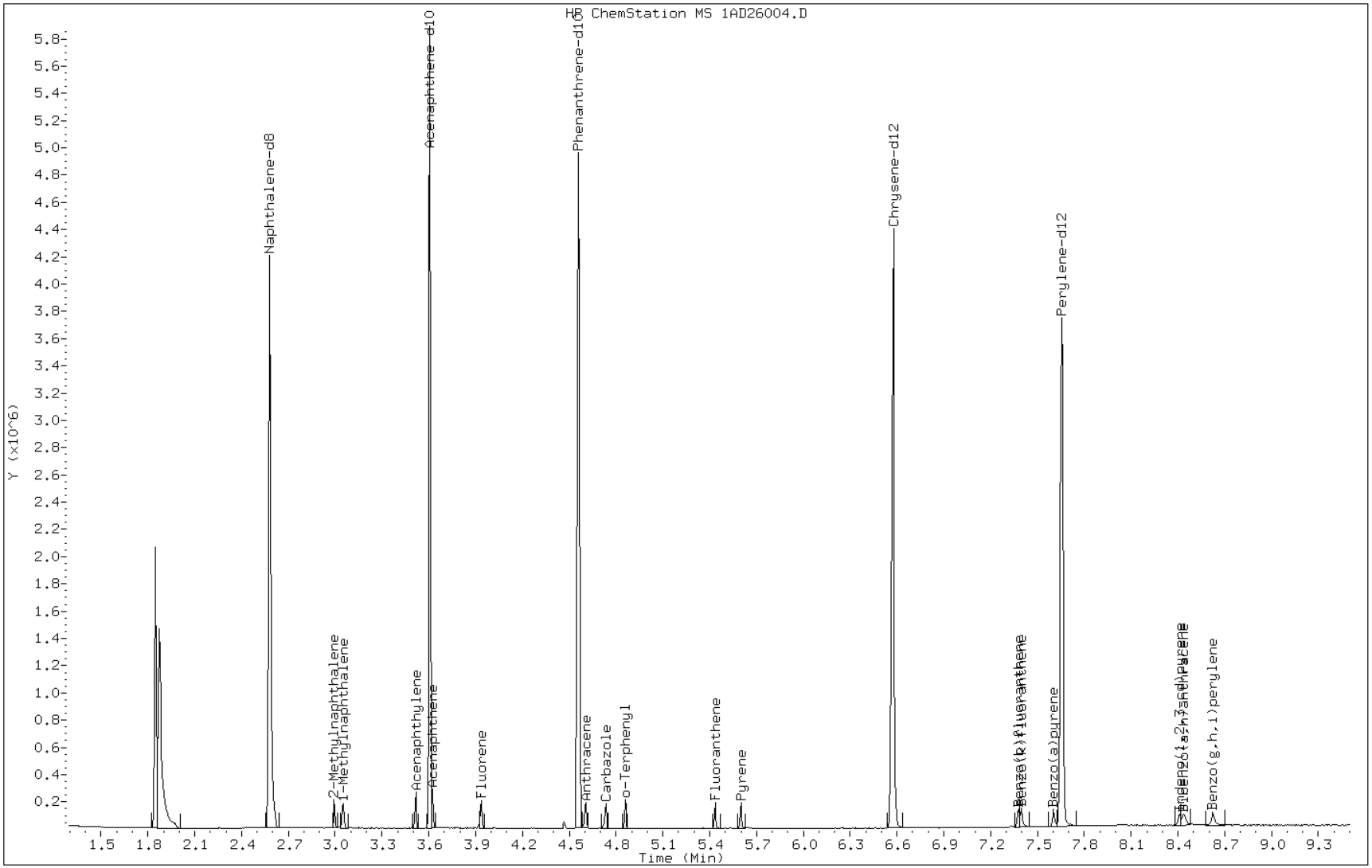
Date: 26-APR-2013 10:18

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531398

Operator: SCC



Manual Integration Report

Data File: 1AD26004.D
Inj. Date and Time: 26-APR-2013 10:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/26/2013

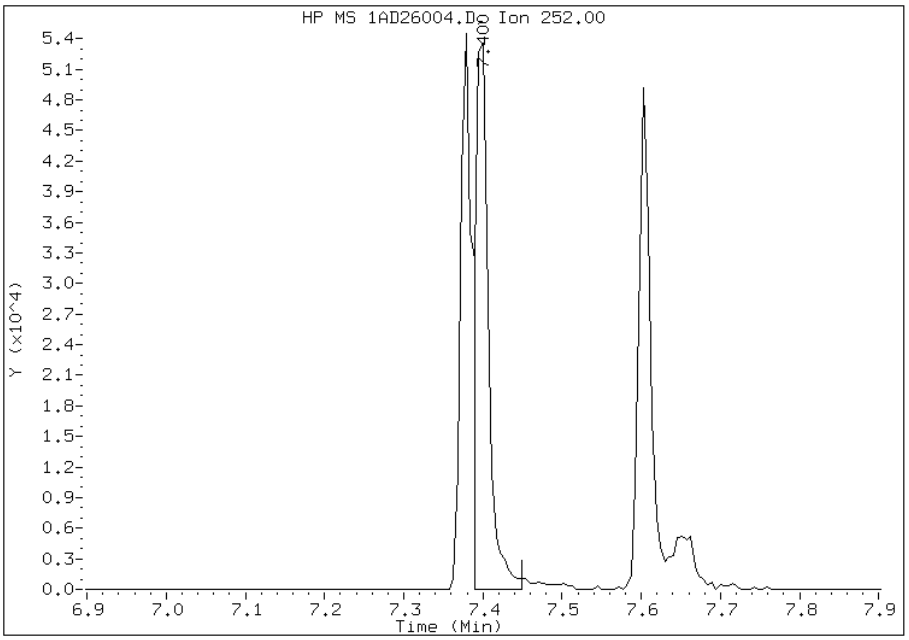
Processing Integration Results

RT: 7.40

Response: 62638

Amount: 1

Conc: 1



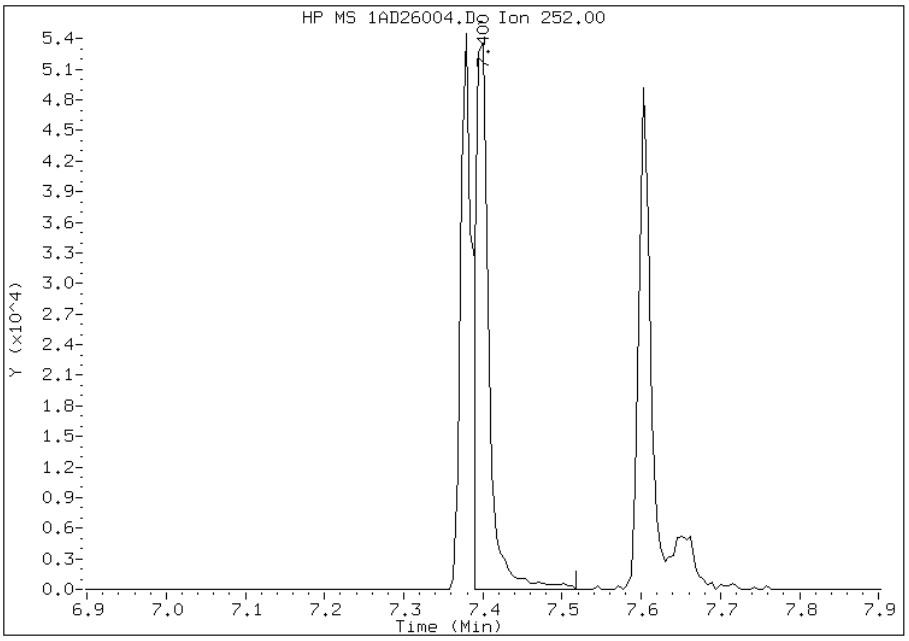
Manual Integration Results

RT: 7.40

Response: 64750

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26004.D
Inj. Date and Time: 26-APR-2013 10:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/26/2013

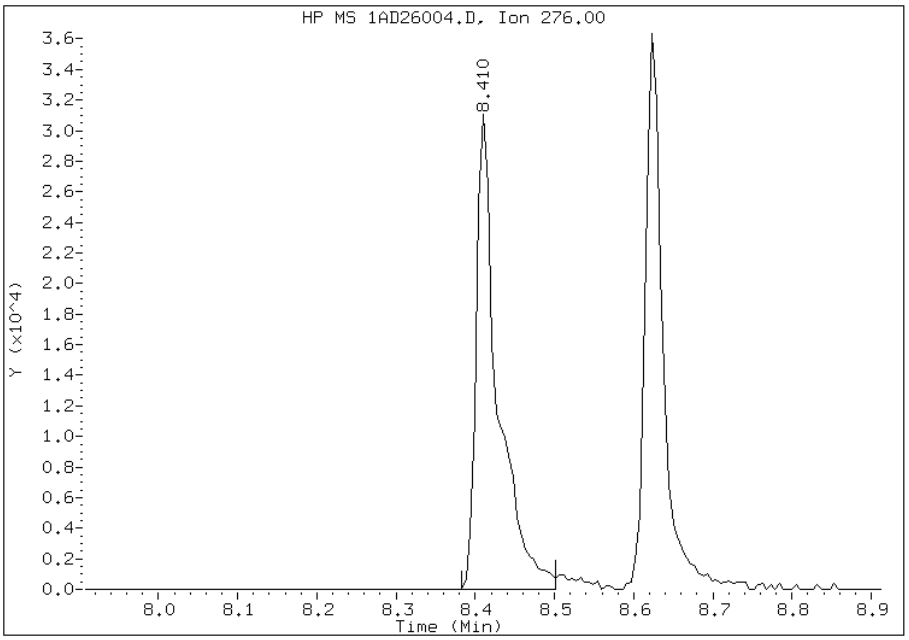
Processing Integration Results

RT: 8.41

Response: 58698

Amount: 1

Conc: 1



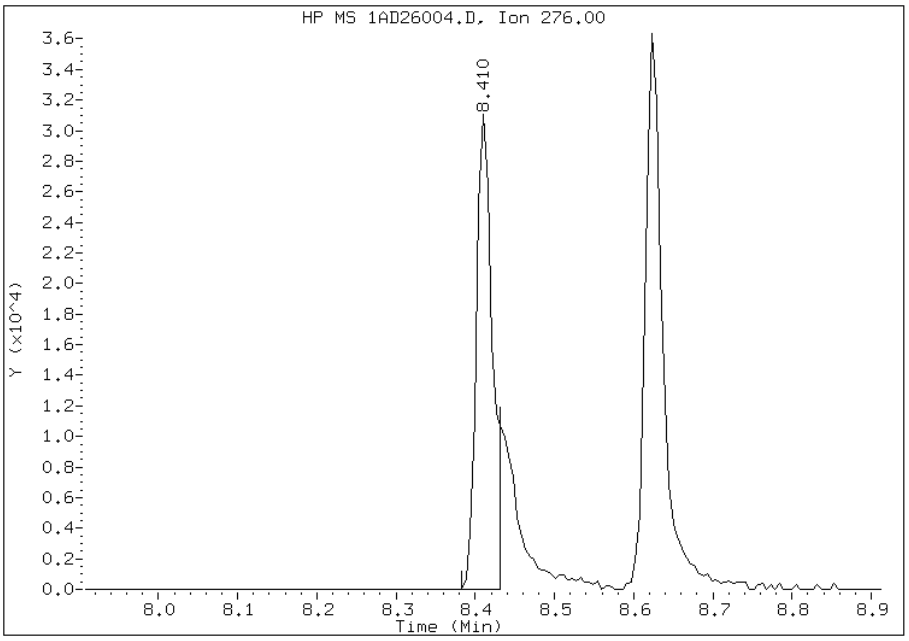
Manual Integration Results

RT: 8.41

Response: 43801

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:52
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD26004.D
Inj. Date and Time: 26-APR-2013 10:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/26/2013

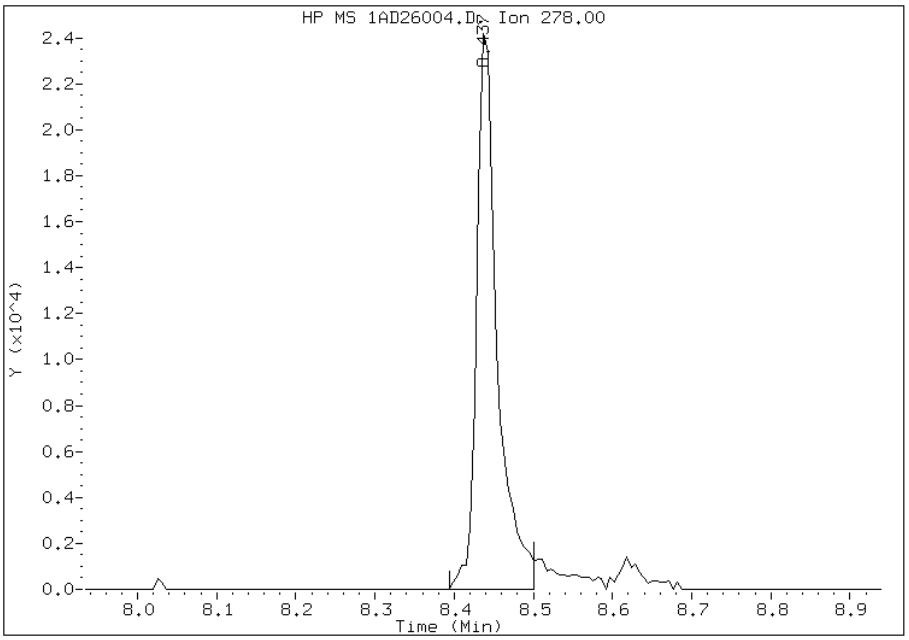
Processing Integration Results

RT: 8.44

Response: 43759

Amount: 1

Conc: 1



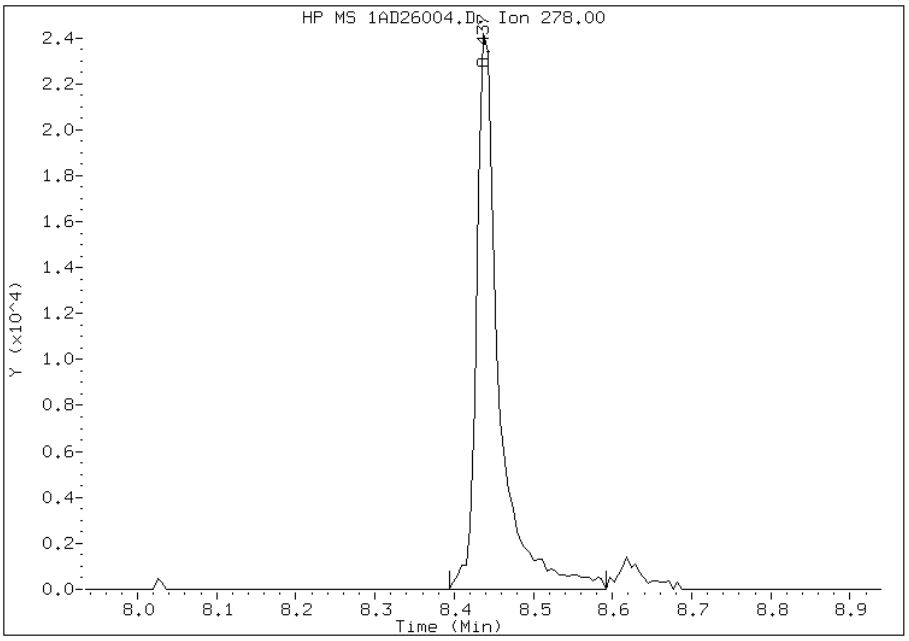
Manual Integration Results

RT: 8.44

Response: 47341

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26004.D
Inj. Date and Time: 26-APR-2013 10:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/26/2013

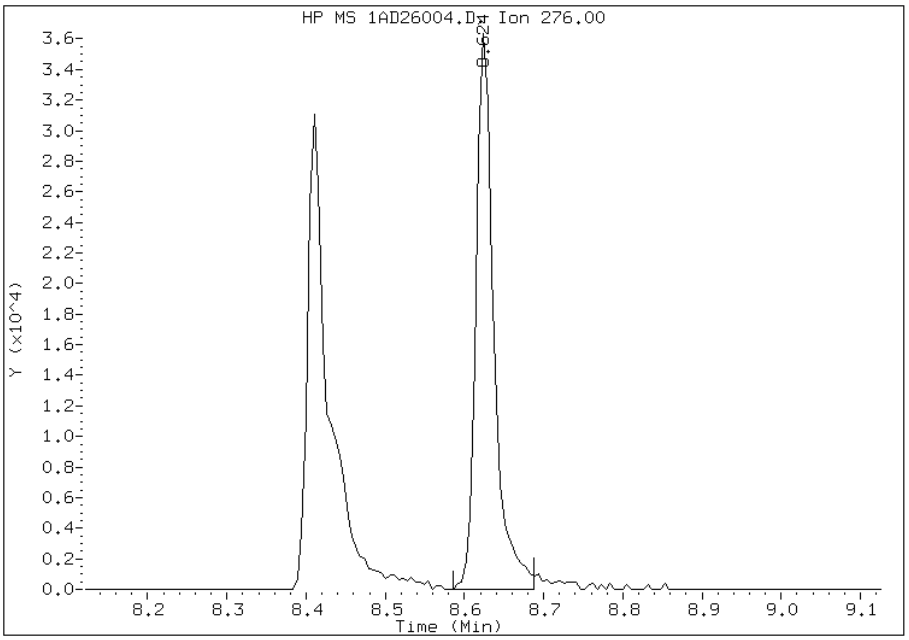
Processing Integration Results

RT: 8.62

Response: 56611

Amount: 1

Conc: 1



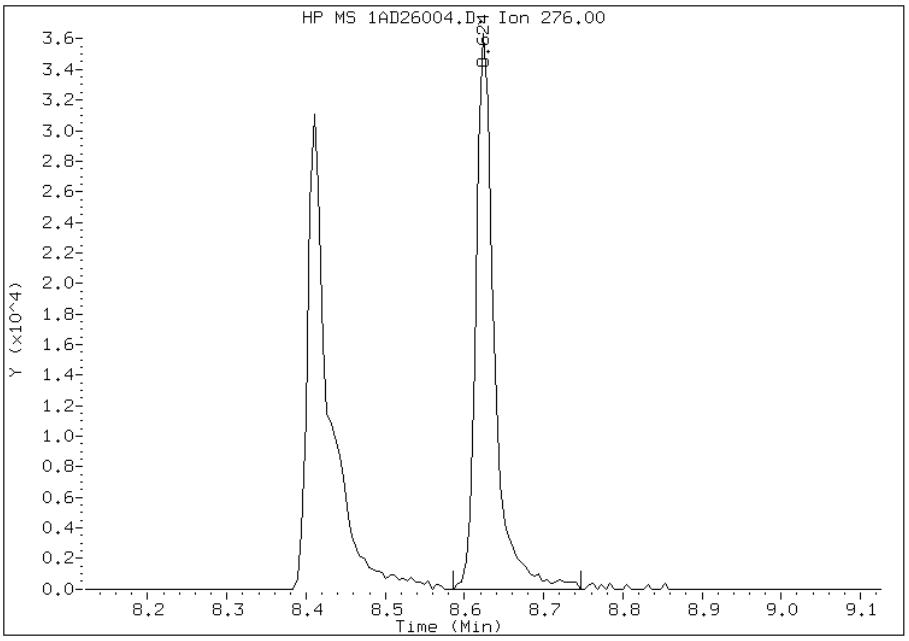
Manual Integration Results

RT: 8.62

Response: 58526

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:52
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26005.D
Lab Smp Id: IC-1531399
Inj Date : 26-APR-2013 10:33
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 10:18 Cal File: 1AD26004.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	2.576	2.580	(1.000)	2369530	40.0000	
* 6 Acenaphthene-d10	164	3.607	3.606	(1.000)	1090579	40.0000	
* 10 Phenanthrene-d10	188	4.558	4.562	(1.000)	1892246	40.0000	
$ 14 o-Terphenyl	230	4.862	4.861	(1.067)	177967	5.00000	5.2550
* 18 Chrysene-d12	240	6.577	6.581	(1.000)	1853494	40.0000	
* 23 Perylene-d12	264	7.662	7.666	(1.000)	1935554	40.0000	
2 Naphthalene	128	2.592	2.591	(1.006)	320082	5.00000	5.0894
3 2-Methylnaphthalene	141	2.993	2.997	(1.162)	193264	5.00000	5.1484
4 1-Methylnaphthalene	142	3.051	3.050	(1.185)	216239	5.00000	5.2724
5 Acenaphthylene	152	3.516	3.520	(0.975)	366926	5.00000	5.0915
7 Acenaphthene	154	3.623	3.627	(1.004)	188346	5.00000	5.1131
9 Fluorene	166	3.938	3.942	(1.092)	226787	5.00000	4.9845
11 Phenanthrene	178	4.574	4.578	(1.004)	300982	5.00000	5.2917
12 Anthracene	178	4.606	4.610	(1.011)	320832	5.00000	5.1089
13 Carbazole	167	4.734	4.738	(1.039)	309273	5.00000	5.3789
15 Fluoranthene	202	5.434	5.438	(1.192)	362121	5.00000	5.3053
16 Pyrene	202	5.600	5.604	(0.851)	387490	5.00000	5.4798
17 Benzo(a)anthracene	228	6.566	6.565	(0.998)	302918	5.00000	5.0044
19 Chrysene	228	6.593	6.597	(1.002)	322491	5.00000	5.2515
20 Benzo(b)fluoranthene	252	7.378	7.388	(0.963)	315397	5.00000	5.3673
21 Benzo(k)fluoranthene	252	7.400	7.409	(0.966)	394484	5.00000	5.8388
22 Benzo(a)pyrene	252	7.608	7.612	(0.993)	334183	5.00000	5.1981
24 Indeno(1,2,3-cd)pyrene	276	8.420	8.430	(1.099)	290809	5.00000	5.0945
25 Dibenzo(a,h)anthracene	278	8.447	8.457	(1.102)	292736	5.00000	5.6999(M)
26 Benzo(g,h,i)perylene	276	8.634	8.654	(1.127)	339141	5.00000	5.4899(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD26005.D

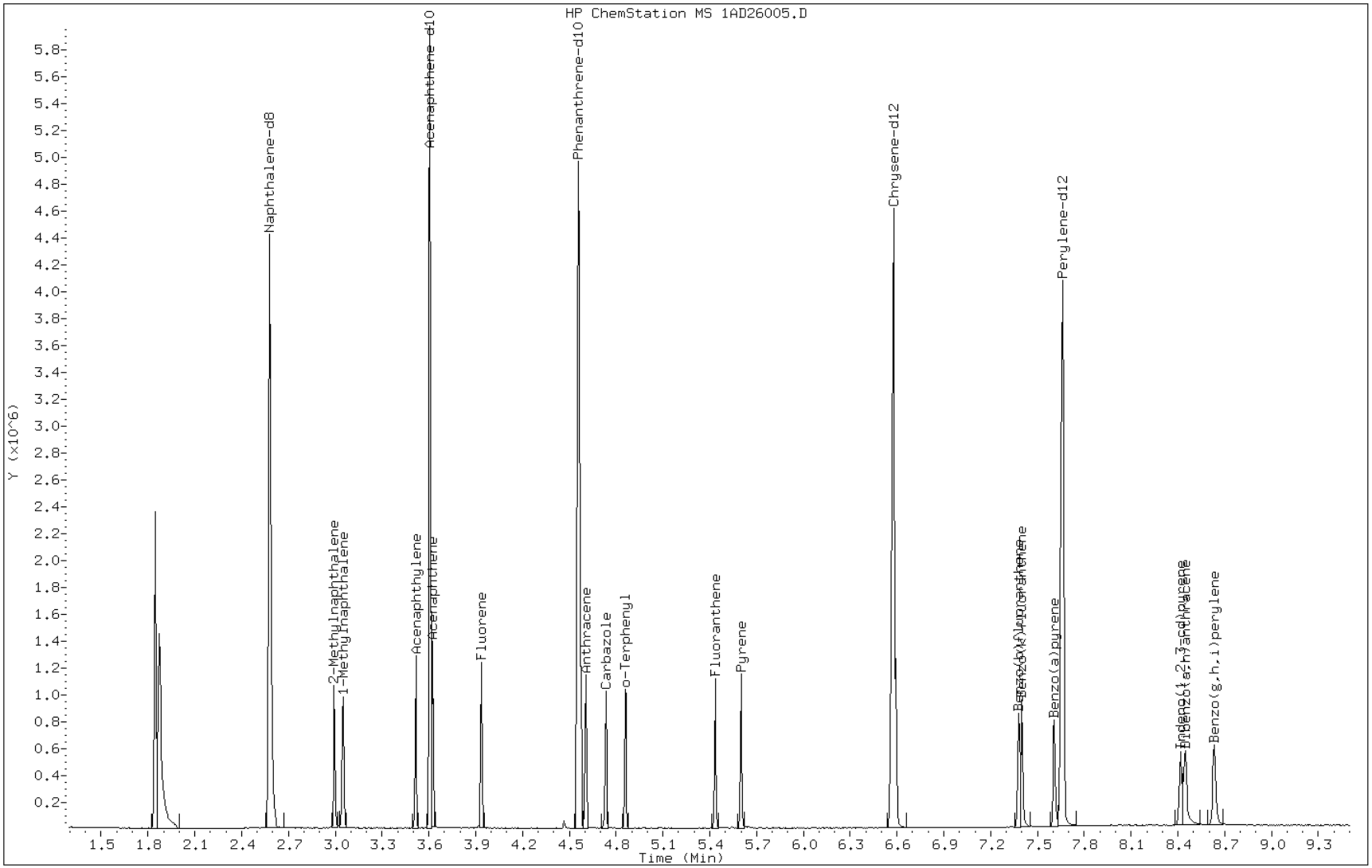
Date: 26-APR-2013 10:33

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531399

Operator: SCC



Manual Integration Report

Data File: 1AD26005.D
Inj. Date and Time: 26-APR-2013 10:33
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/26/2013

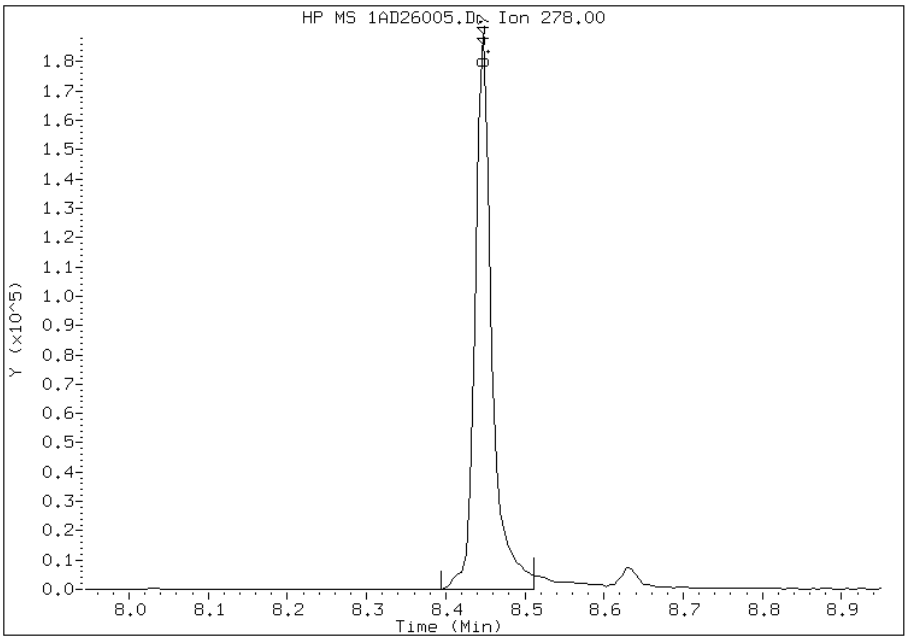
Processing Integration Results

RT: 8.45

Response: 277866

Amount: 6

Conc: 6



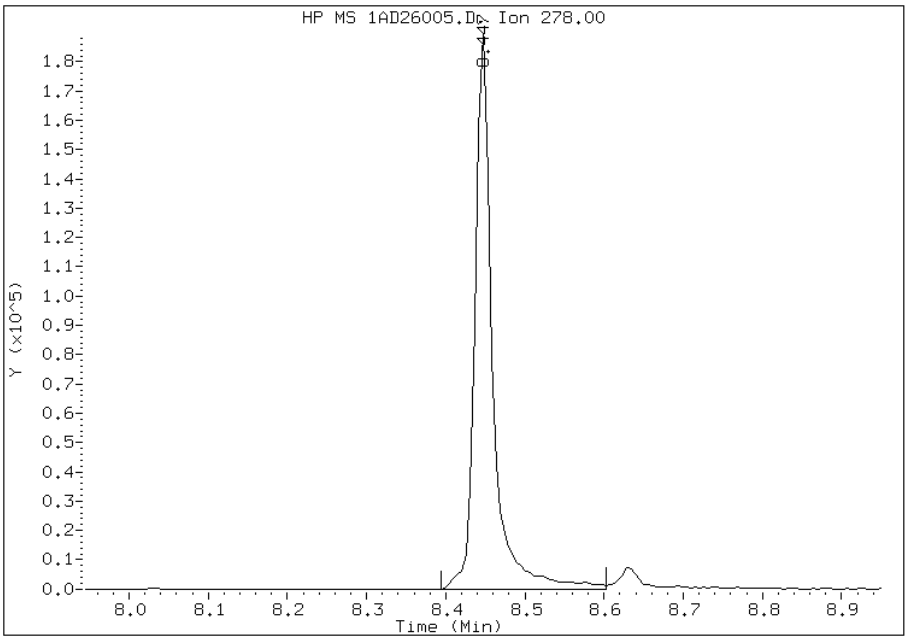
Manual Integration Results

RT: 8.45

Response: 292736

Amount: 6

Conc: 6



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26005.D
Inj. Date and Time: 26-APR-2013 10:33
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/26/2013

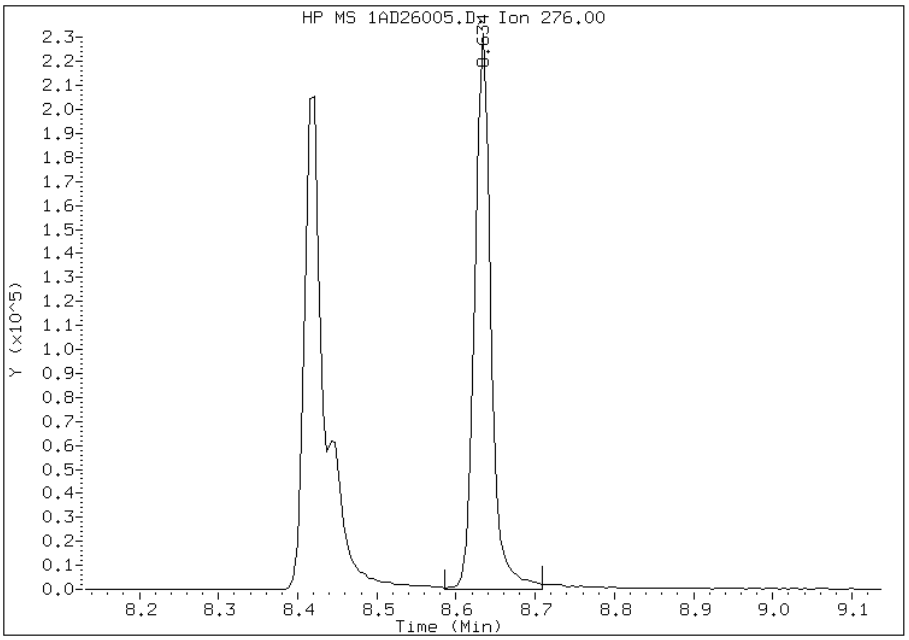
Processing Integration Results

RT: 8.63

Response: 328220

Amount: 5

Conc: 5



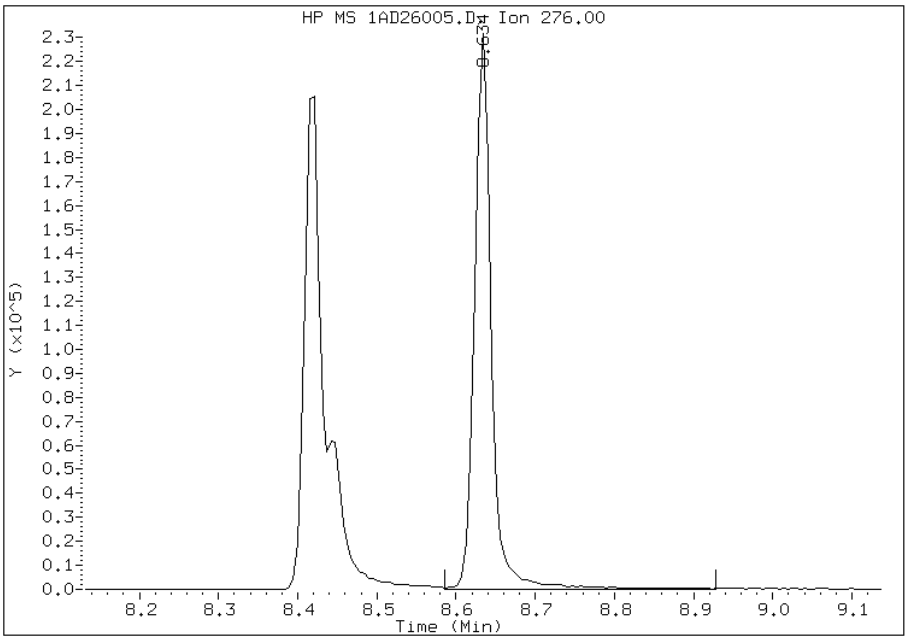
Manual Integration Results

RT: 8.63

Response: 339141

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:53
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26006.D
Lab Smp Id: IC-1531400
Inj Date : 26-APR-2013 10:48
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 10:33 Cal File: 1AD26005.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	2.581	2.580	(1.000)	2323692	40.0000	
* 6 Acenaphthene-d10	164	3.606	3.606	(1.000)	1066140	40.0000	
* 10 Phenanthrene-d10	188	4.563	4.562	(1.000)	1871240	40.0000	
$ 14 o-Terphenyl	230	4.862	4.861	(1.066)	310562	10.0000	9.7321
* 18 Chrysene-d12	240	6.582	6.581	(1.000)	1765506	40.0000	
* 23 Perylene-d12	264	7.661	7.666	(1.000)	1844103	40.0000	
2 Naphthalene	128	2.591	2.591	(1.004)	595222	10.0000	9.8376
3 2-Methylnaphthalene	141	2.997	2.997	(1.161)	341254	10.0000	9.6150
4 1-Methylnaphthalene	142	3.051	3.050	(1.182)	376560	10.0000	9.8086
5 Acenaphthylene	152	3.515	3.520	(0.975)	648059	10.0000	9.6521
7 Acenaphthene	154	3.622	3.627	(1.004)	324917	10.0000	9.4098
9 Fluorene	166	3.937	3.942	(1.092)	405299	10.0000	9.4592
11 Phenanthrene	178	4.573	4.578	(1.002)	533287	10.0000	9.9071
12 Anthracene	178	4.605	4.610	(1.009)	579771	10.0000	9.8285
13 Carbazole	167	4.739	4.738	(1.039)	544612	10.0000	9.9049
15 Fluoranthene	202	5.439	5.438	(1.192)	653973	10.0000	10.0511
16 Pyrene	202	5.604	5.604	(0.851)	693219	10.0000	10.2919
17 Benzo(a)anthracene	228	6.566	6.565	(0.998)	543586	10.0000	9.4280
19 Chrysene	228	6.598	6.597	(1.002)	574179	10.0000	9.8161
20 Benzo(b)fluoranthene	252	7.383	7.388	(0.964)	597877	10.0000	10.6790
21 Benzo(k)fluoranthene	252	7.405	7.409	(0.967)	634191	10.0000	9.8523
22 Benzo(a)pyrene	252	7.608	7.612	(0.993)	604286	10.0000	10.7211
24 Indeno(1,2,3-cd)pyrene	276	8.420	8.430	(1.099)	557142	10.0000	10.0121
25 Dibenzo(a,h)anthracene	278	8.446	8.457	(1.103)	529334	10.0000	10.8180(M)
26 Benzo(g,h,i)perylene	276	8.639	8.654	(1.128)	616524	10.0000	10.4750(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD26006.D

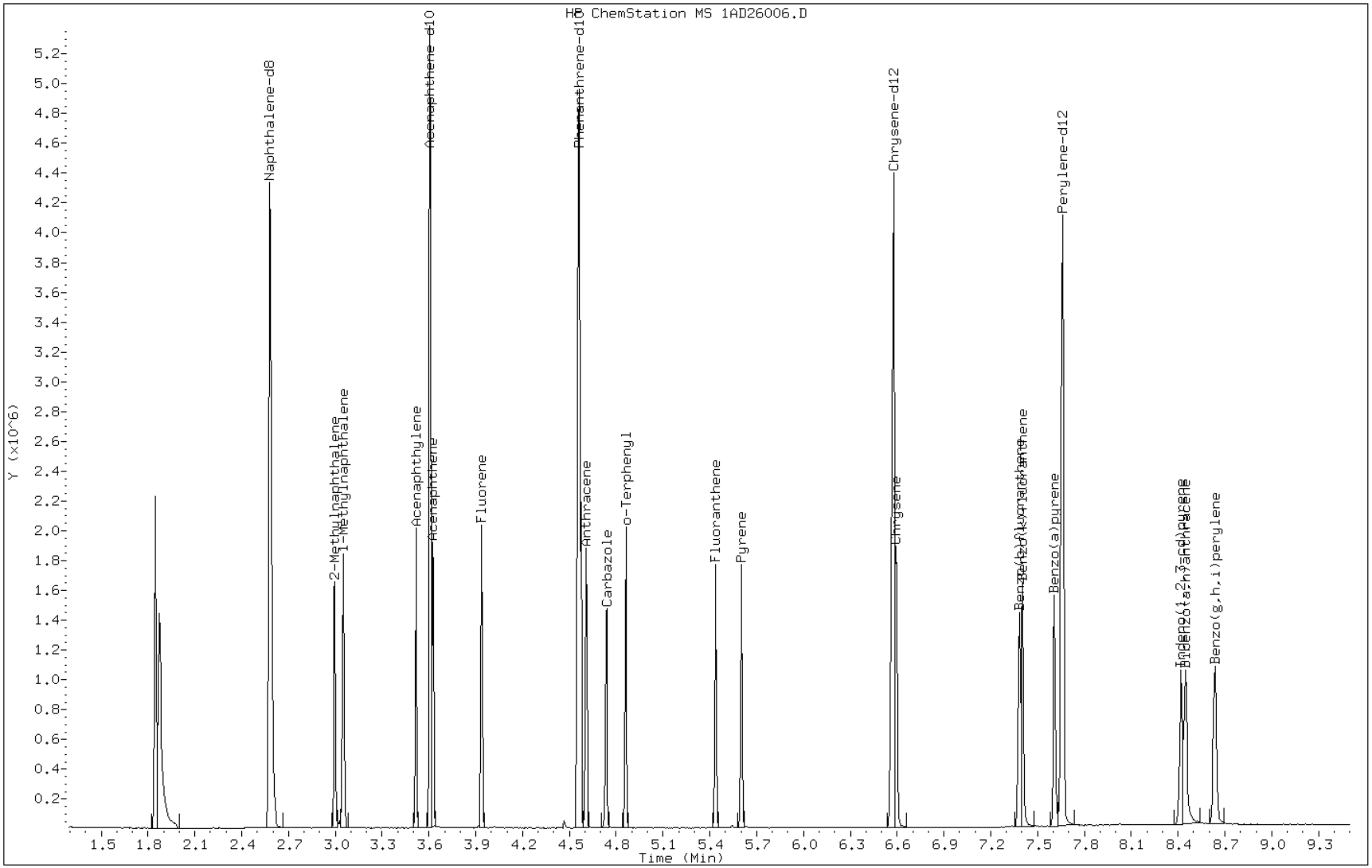
Date: 26-APR-2013 10:48

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531400

Operator: SCC



Manual Integration Report

Data File: 1AD26006.D
Inj. Date and Time: 26-APR-2013 10:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/26/2013

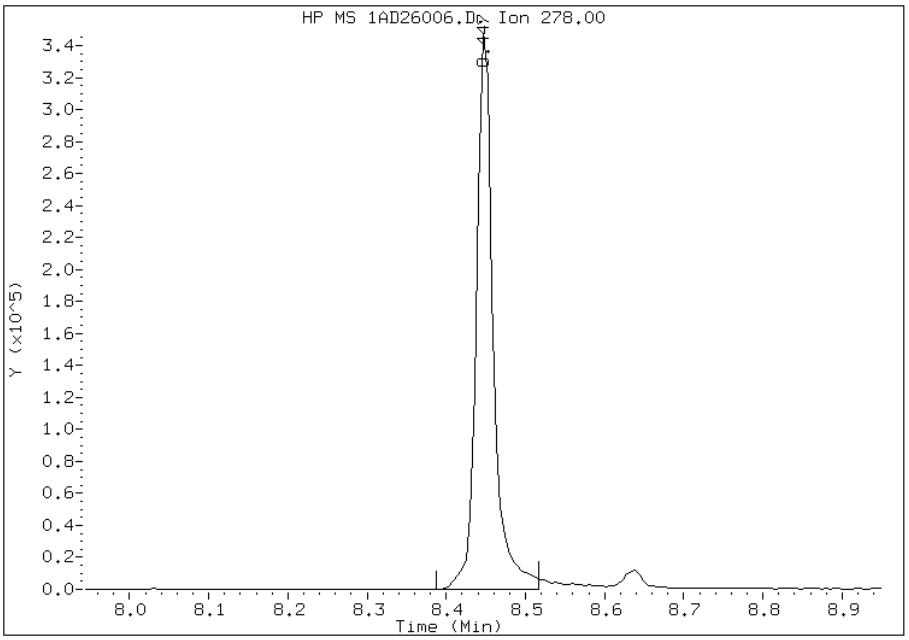
Processing Integration Results

RT: 8.45

Response: 511528

Amount: 11

Conc: 11



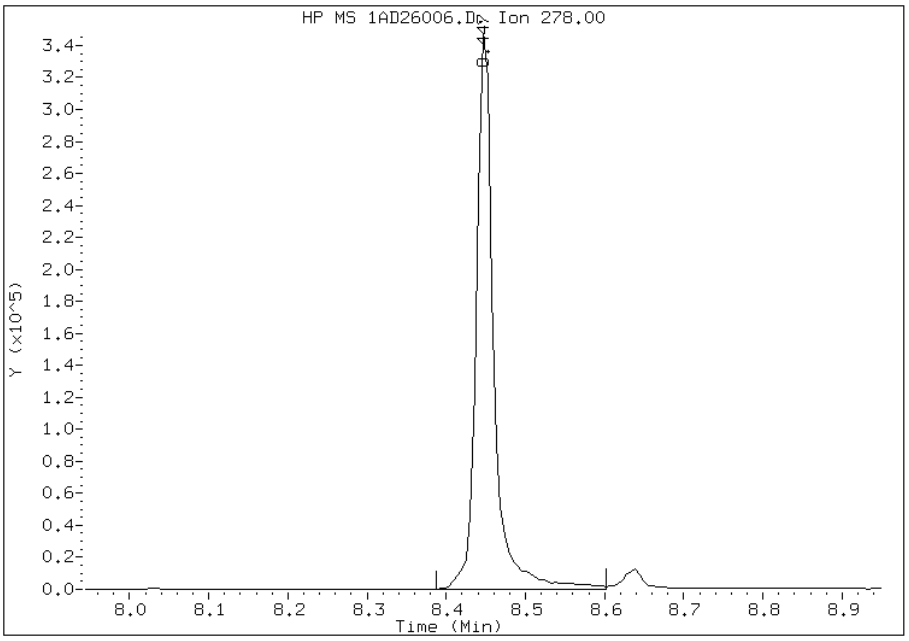
Manual Integration Results

RT: 8.45

Response: 529334

Amount: 11

Conc: 11



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:54
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26006.D
Inj. Date and Time: 26-APR-2013 10:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/26/2013

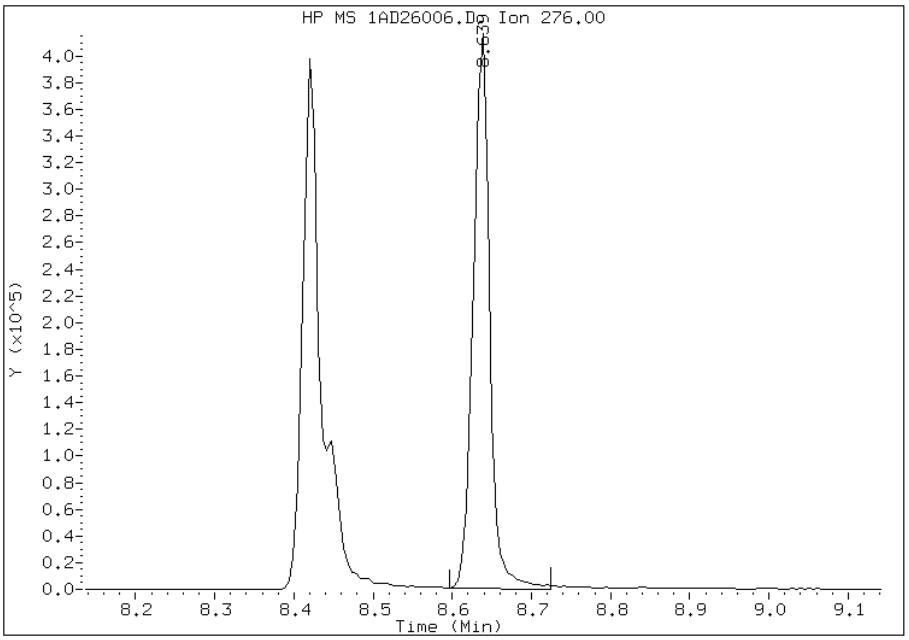
Processing Integration Results

RT: 8.64

Response: 592263

Amount: 10

Conc: 10



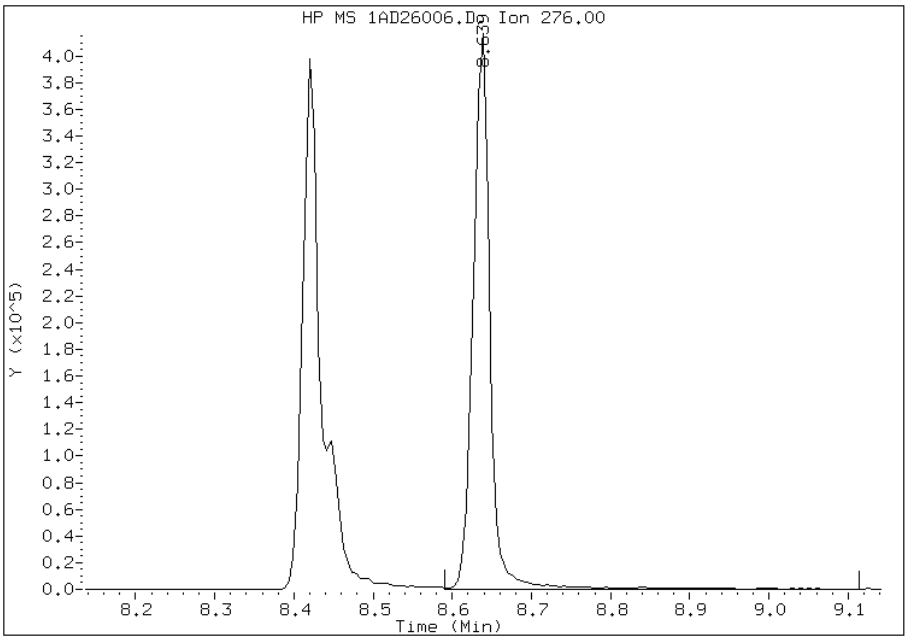
Manual Integration Results

RT: 8.64

Response: 616524

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:54
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26007.D
Lab Smp Id: ICIS-1531401
Inj Date : 26-APR-2013 11:03
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 10:48 Cal File: 1AD26006.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	2.580	2.580	(1.000)	2358748	40.0000	
* 6 Acenaphthene-d10	164	3.606	3.606	(1.000)	1131055	40.0000	
* 10 Phenanthrene-d10	188	4.562	4.562	(1.000)	1941405	40.0000	
$ 14 o-Terphenyl	230	4.861	4.861	(1.066)	600782	20.0000	19.8656
* 18 Chrysene-d12	240	6.581	6.581	(1.000)	1806882	40.0000	
* 23 Perylene-d12	264	7.666	7.666	(1.000)	1862358	40.0000	
2 Naphthalene	128	2.591	2.591	(1.004)	1158716	20.0000	19.7046
3 2-Methylnaphthalene	141	2.997	2.997	(1.161)	669822	20.0000	20.1454
4 1-Methylnaphthalene	142	3.050	3.050	(1.182)	706538	20.0000	19.6964
5 Acenaphthylene	152	3.520	3.520	(0.976)	1265667	20.0000	19.6212
7 Acenaphthene	154	3.627	3.627	(1.006)	634267	20.0000	19.1257
9 Fluorene	166	3.942	3.942	(1.093)	807968	20.0000	19.5803
11 Phenanthrene	178	4.578	4.578	(1.004)	1040972	20.0000	19.9793
12 Anthracene	178	4.610	4.610	(1.011)	1112517	20.0000	19.9518
13 Carbazole	167	4.738	4.738	(1.039)	1091227	20.0000	20.1348
15 Fluoranthene	202	5.438	5.438	(1.192)	1286350	20.0000	20.1741
16 Pyrene	202	5.604	5.604	(0.851)	1367080	20.0000	19.8317
17 Benzo(a)anthracene	228	6.565	6.565	(0.998)	1149947	20.0000	19.4881
19 Chrysene	228	6.597	6.597	(1.002)	1097962	20.0000	18.3408(M)
20 Benzo(b)fluoranthene	252	7.388	7.388	(0.964)	1243307	20.0000	21.9898
21 Benzo(k)fluoranthene	252	7.409	7.409	(0.967)	1166129	20.0000	17.9385
22 Benzo(a)pyrene	252	7.612	7.612	(0.993)	1187145	20.0000	21.7561
24 Indeno(1,2,3-cd)pyrene	276	8.430	8.430	(1.100)	1156108	20.0000	20.3300
25 Dibenzo(a,h)anthracene	278	8.457	8.457	(1.103)	1028761	20.0000	20.8187
26 Benzo(g,h,i)perylene	276	8.654	8.654	(1.129)	1185137	20.0000	19.9387

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD26007.D

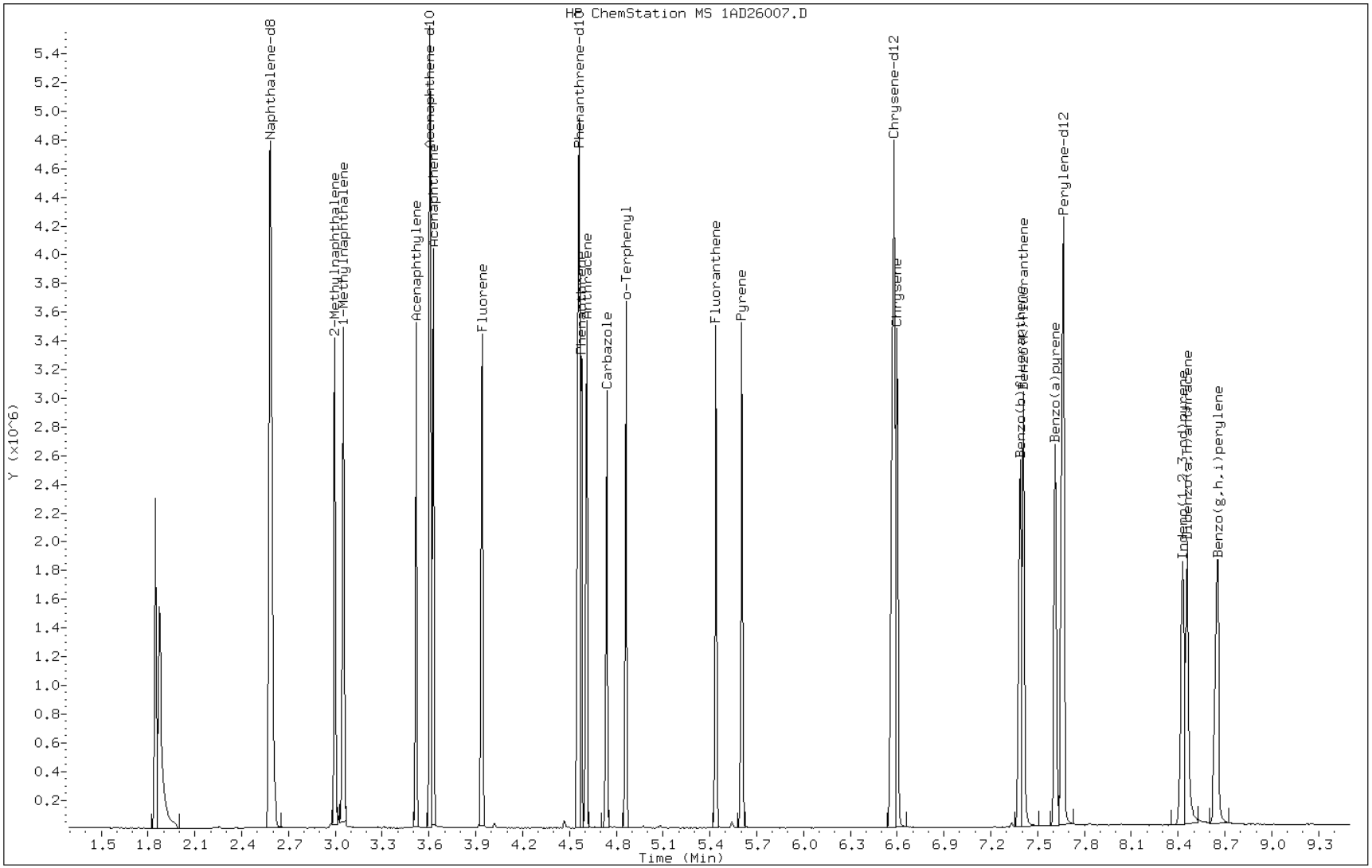
Date: 26-APR-2013 11:03

Client ID:

Instrument: BSMA5973.i

Sample Info: ICIS-1531401

Operator: SCC



Manual Integration Report

Data File: 1AD26007.D
Inj. Date and Time: 26-APR-2013 11:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 04/26/2013

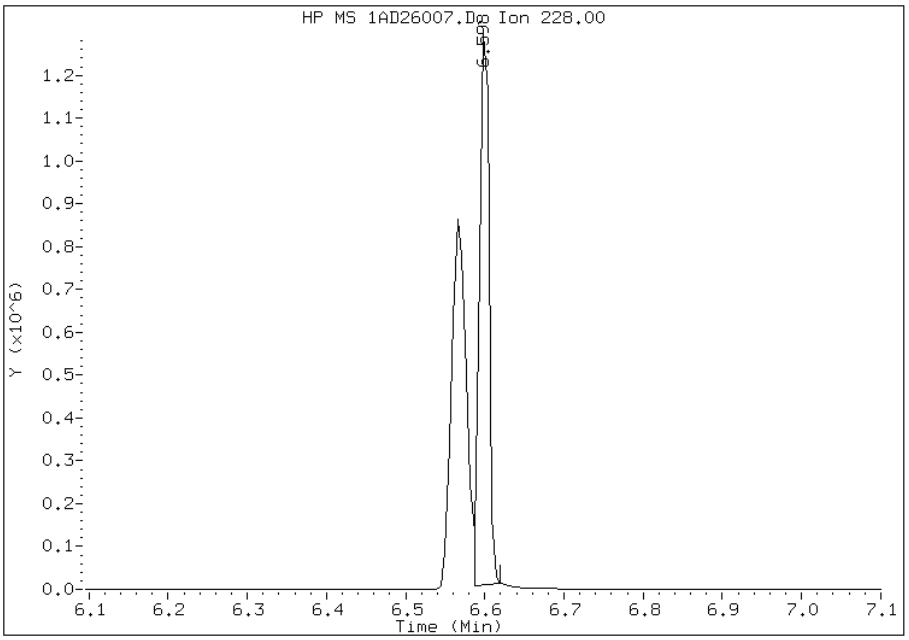
Processing Integration Results

RT: 6.60

Response: 1056771

Amount: 17

Conc: 17



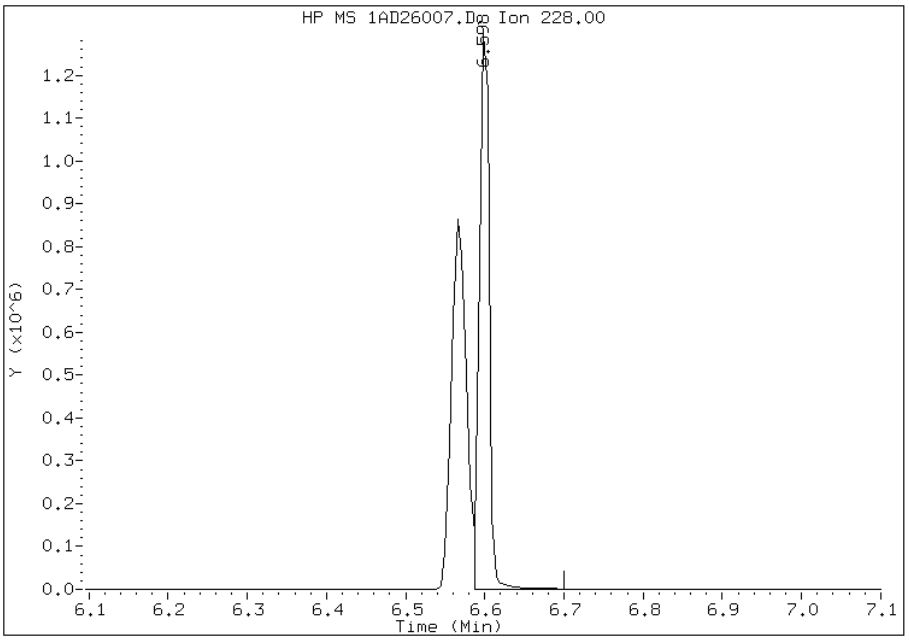
Manual Integration Results

RT: 6.60

Response: 1097962

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:58
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26008.D
Lab Smp Id: IC-1531402
Inj Date : 26-APR-2013 11:19
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 11:03 Cal File: 1AD26007.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	2.578	2.580	(1.000)	2081137	40.0000	
* 6 Acenaphthene-d10	164	3.609	3.606	(1.000)	971255	40.0000	
* 10 Phenanthrene-d10	188	4.560	4.562	(1.000)	1708155	40.0000	
$ 14 o-Terphenyl	230	4.864	4.861	(1.067)	747046	30.0000	30.2447
* 18 Chrysene-d12	240	6.584	6.581	(1.000)	1549882	40.0000	
* 23 Perylene-d12	264	7.663	7.666	(1.000)	1665910	40.0000	
2 Naphthalene	128	2.594	2.591	(1.006)	1510520	30.0000	30.4015
3 2-Methylnaphthalene	141	2.994	2.997	(1.162)	827941	30.0000	30.0747
4 1-Methylnaphthalene	142	3.053	3.050	(1.184)	894050	30.0000	30.3598
5 Acenaphthylene	152	3.518	3.520	(0.975)	1556064	30.0000	30.6998
7 Acenaphthene	154	3.625	3.627	(1.004)	810394	30.0000	31.5304
9 Fluorene	166	3.940	3.942	(1.092)	1002855	30.0000	30.9795
11 Phenanthrene	178	4.576	4.578	(1.004)	1299367	30.0000	29.9559
12 Anthracene	178	4.613	4.610	(1.012)	1371502	30.0000	30.1453
13 Carbazole	167	4.741	4.738	(1.040)	1364561	30.0000	29.7567
15 Fluoranthene	202	5.441	5.438	(1.193)	1591115	30.0000	29.6375
16 Pyrene	202	5.607	5.604	(0.852)	1716784	30.0000	29.0345
17 Benzo(a)anthracene	228	6.568	6.565	(0.998)	1427778	30.0000	28.2088
19 Chrysene	228	6.600	6.597	(1.002)	1401601	30.0000	27.2953(M)
20 Benzo(b)fluoranthene	252	7.391	7.388	(0.964)	1402018	30.0000	27.7209
21 Benzo(k)fluoranthene	252	7.412	7.409	(0.967)	1618107	30.0000	27.8265
22 Benzo(a)pyrene	252	7.615	7.612	(0.994)	1470103	30.0000	30.4849
24 Indeno(1,2,3-cd)pyrene	276	8.427	8.430	(1.100)	1470861	30.0000	28.8179
25 Dibenzo(a,h)anthracene	278	8.459	8.457	(1.104)	1321140	30.0000	29.8882
26 Benzo(g,h,i)perylene	276	8.652	8.654	(1.129)	1524482	30.0000	28.6723

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD26008.D

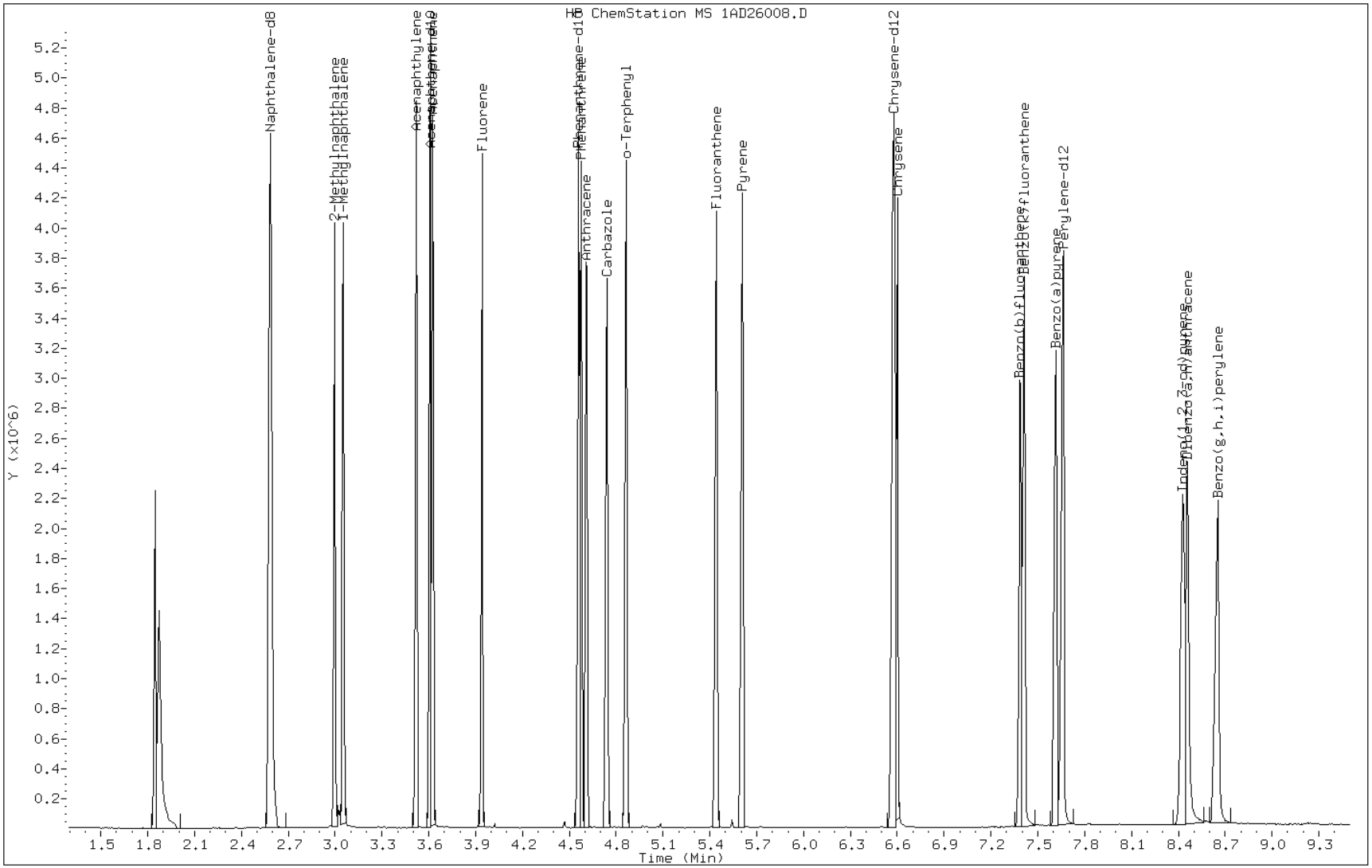
Date: 26-APR-2013 11:19

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531402

Operator: SCC



Manual Integration Report

Data File: 1AD26008.D
Inj. Date and Time: 26-APR-2013 11:19
Instrument ID: BSMA5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 04/26/2013

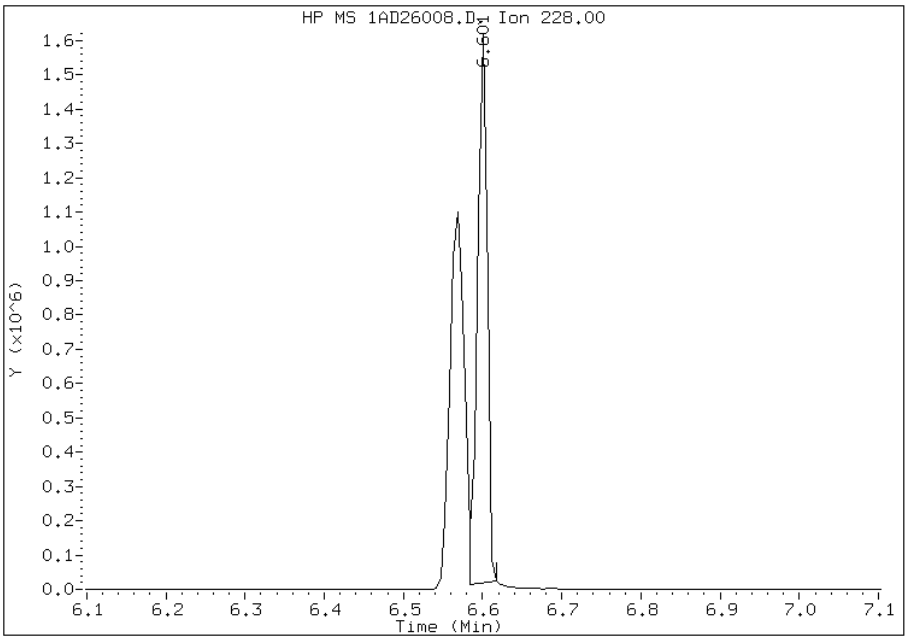
Processing Integration Results

RT: 6.60

Response: 1330257

Amount: 26

Conc: 26



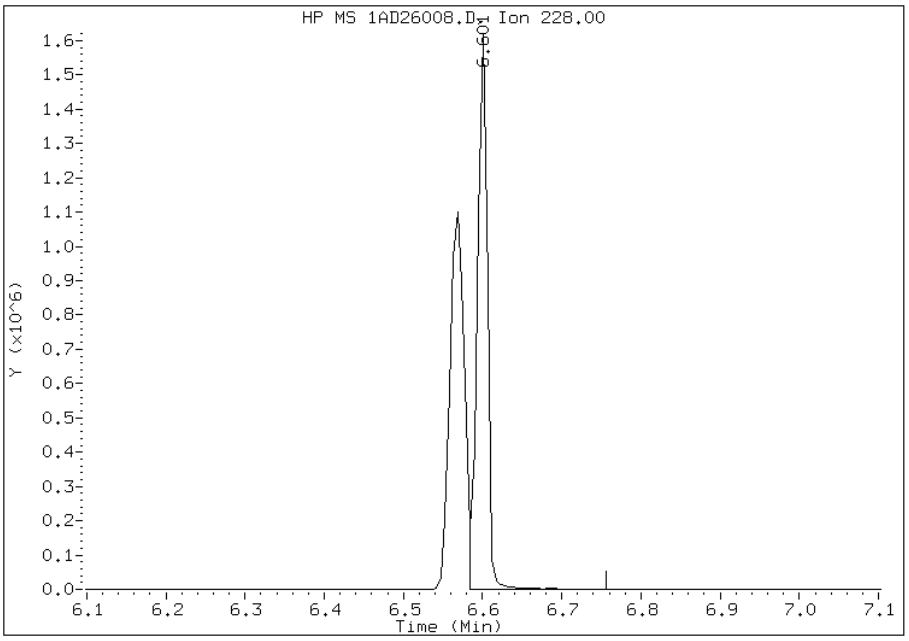
Manual Integration Results

RT: 6.60

Response: 1401601

Amount: 27

Conc: 27



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:56
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26009.D
Lab Smp Id: IC-1531403
Inj Date : 26-APR-2013 11:34
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 11:19 Cal File: 1AD26008.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	2.581	2.580	(1.000)	2198265	40.0000	
* 6 Acenaphthene-d10	164	3.607	3.606	(1.000)	1085200	40.0000	
* 10 Phenanthrene-d10	188	4.563	4.562	(1.000)	1842852	40.0000	
$ 14 o-Terphenyl	230	4.868	4.861	(1.067)	1190919	50.0000	49.9310
* 18 Chrysene-d12	240	6.588	6.581	(1.000)	1568229	40.0000	
* 23 Perylene-d12	264	7.667	7.666	(1.000)	1740423	40.0000	
2 Naphthalene	128	2.592	2.591	(1.004)	2445644	50.0000	49.8939
3 2-Methylnaphthalene	141	2.998	2.997	(1.161)	1310841	50.0000	49.9542
4 1-Methylnaphthalene	142	3.057	3.050	(1.184)	1398370	50.0000	49.9099
5 Acenaphthylene	152	3.521	3.520	(0.976)	2504346	50.0000	49.7738
7 Acenaphthene	154	3.628	3.627	(1.006)	1267057	50.0000	49.4576
9 Fluorene	166	3.943	3.942	(1.093)	1599840	50.0000	49.6541
11 Phenanthrene	178	4.579	4.578	(1.004)	2139281	50.0000	50.0234(A)
12 Anthracene	178	4.617	4.610	(1.012)	2186210	50.0000	49.9541
13 Carbazole	167	4.745	4.738	(1.040)	2311786	50.0000	50.0703(A)
15 Fluoranthene	202	5.450	5.438	(1.194)	2681447	50.0000	50.1042(A)
16 Pyrene	202	5.616	5.604	(0.852)	2760027	50.0000	46.1318
17 Benzo(a)anthracene	228	6.572	6.565	(0.998)	2561817	50.0000	50.0220(A)
19 Chrysene	228	6.609	6.597	(1.003)	2209729	50.0000	42.5296(M)
20 Benzo(b)fluoranthene	252	7.394	7.388	(0.964)	2501570	50.0000	47.3439
21 Benzo(k)fluoranthene	252	7.421	7.409	(0.968)	2519945	50.0000	41.4801(M)
22 Benzo(a)pyrene	252	7.624	7.612	(0.994)	2426657	50.0000	48.7188
24 Indeno(1,2,3-cd)pyrene	276	8.442	8.430	(1.101)	2703546	50.0000	50.5272(A)
25 Dibenzo(a,h)anthracene	278	8.474	8.457	(1.105)	2207196	50.0000	47.7957
26 Benzo(g,h,i)perylene	276	8.671	8.654	(1.131)	2645132	50.0000	47.6194

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1AD26009.D

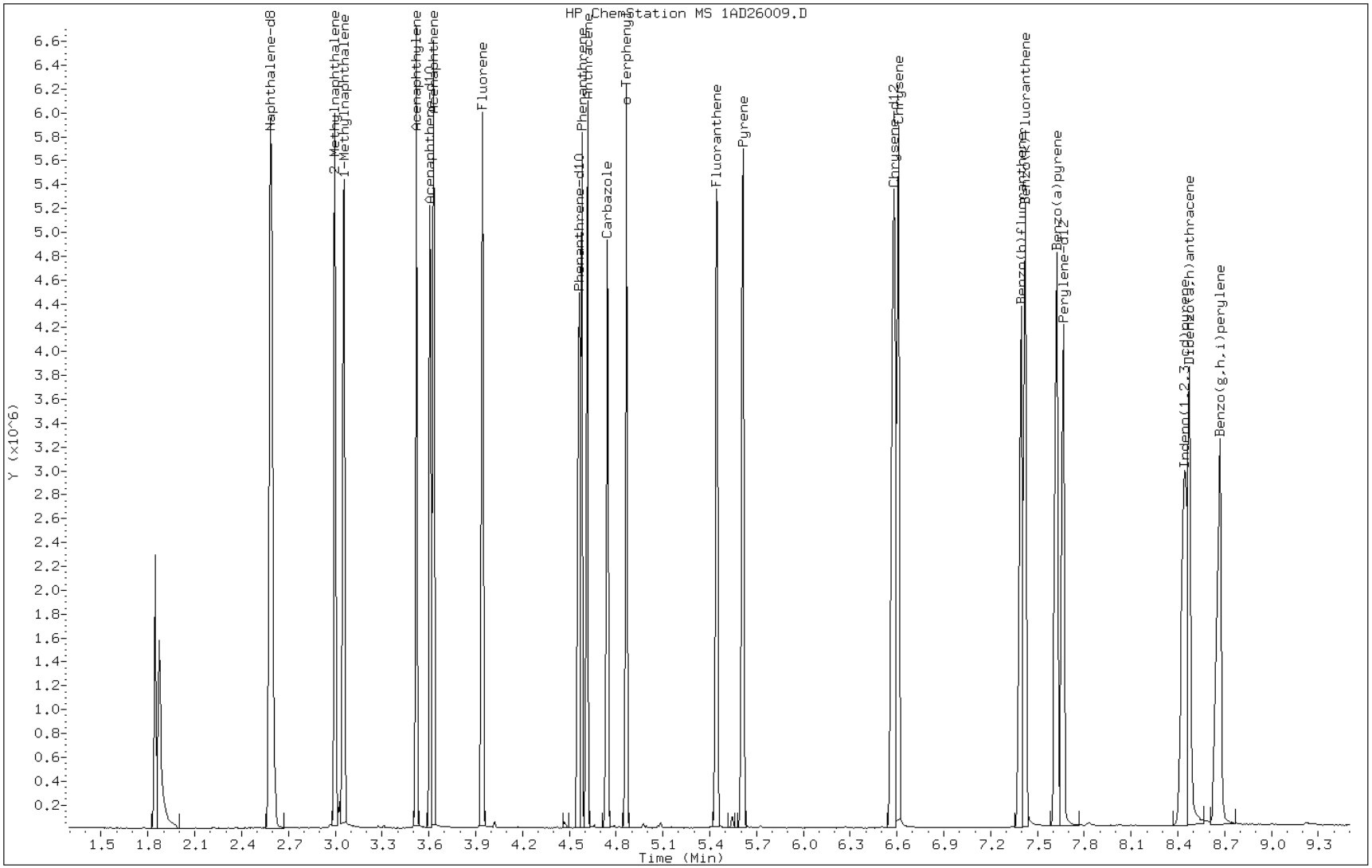
Date: 26-APR-2013 11:34

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531403

Operator: SCC



Manual Integration Report

Data File: 1AD26009.D
Inj. Date and Time: 26-APR-2013 11:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 04/26/2013

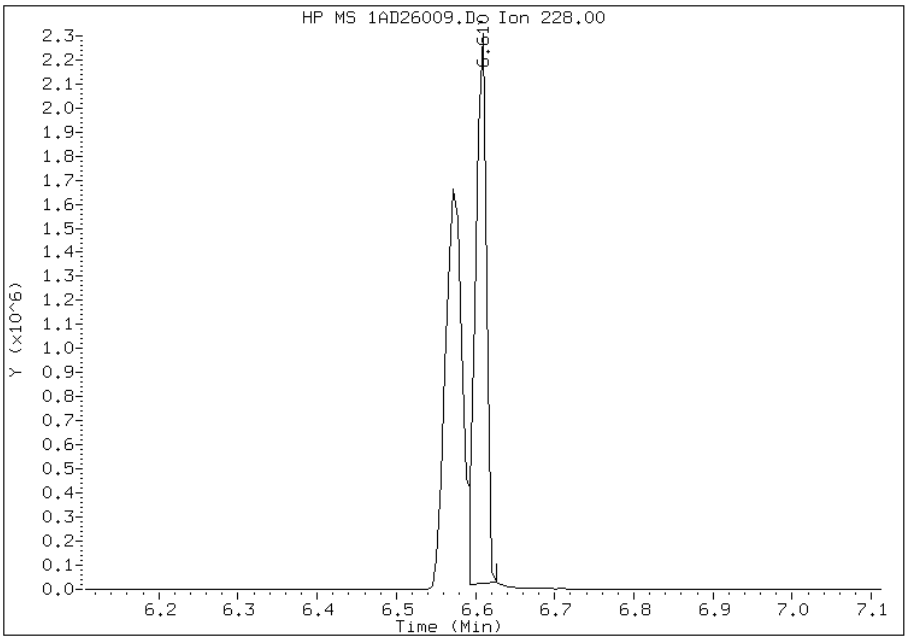
Processing Integration Results

RT: 6.61

Response: 2123056

Amount: 42

Conc: 42



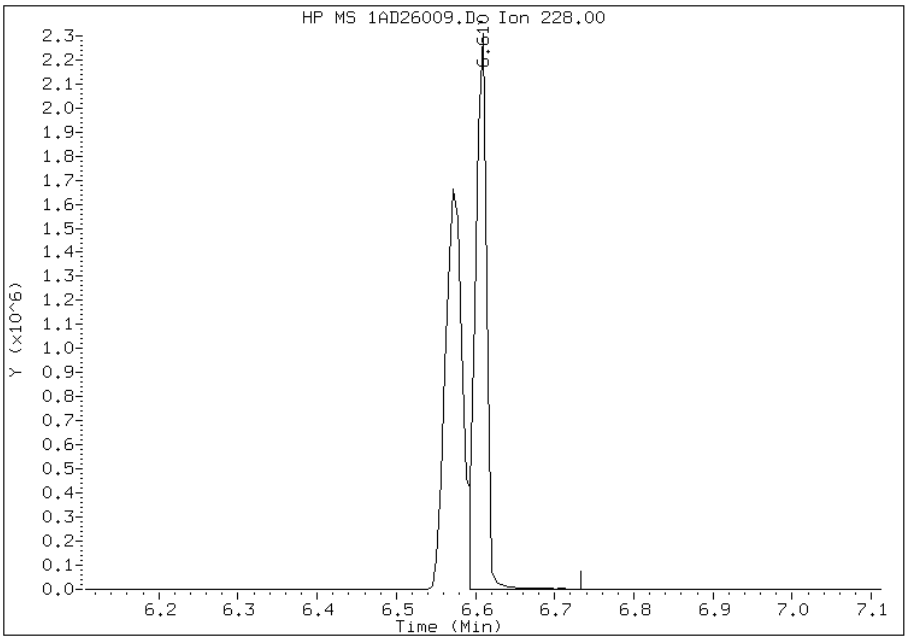
Manual Integration Results

RT: 6.61

Response: 2209729

Amount: 43

Conc: 43



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26009.D
Inj. Date and Time: 26-APR-2013 11:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/26/2013

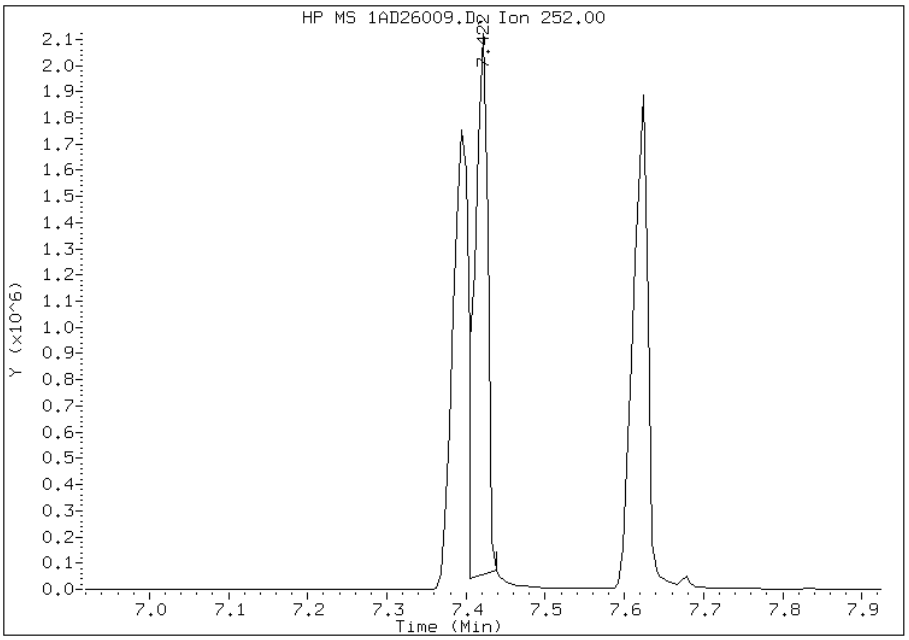
Processing Integration Results

RT: 7.42

Response: 2323626

Amount: 39

Conc: 39



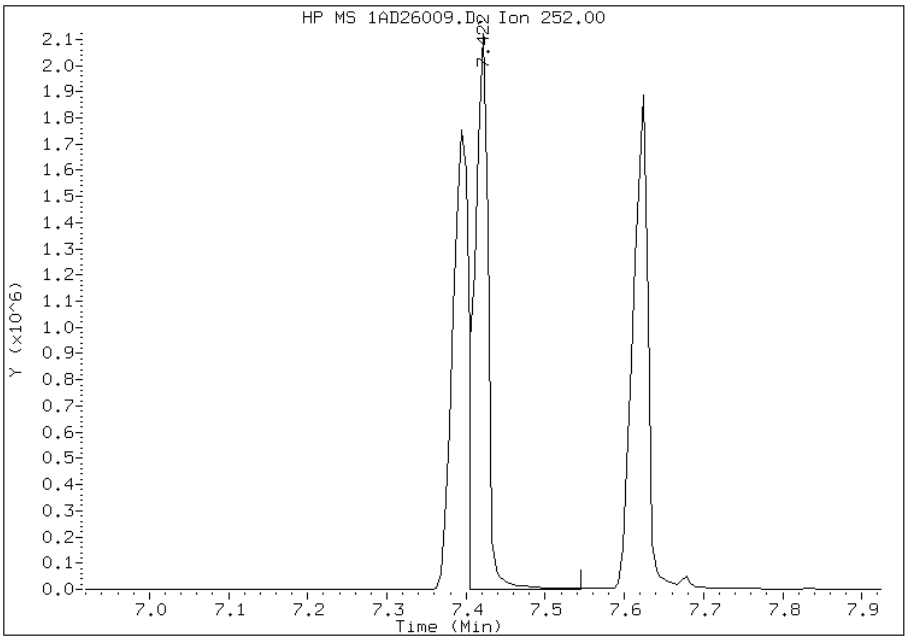
Manual Integration Results

RT: 7.42

Response: 2519945

Amount: 41

Conc: 41



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:55
Manual Integration Reason: Baseline Event

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

Lab Name: TestAmerica Tampa Job No.: 680-89695-1 Analy Batch No.: 136164

SDG No.: 68089695-1

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

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136164/15	1DD04007.D
Level 2	IC 660-136164/16	1DD04008.D
Level 3	IC 660-136164/17	1DD04009.D
Level 4	IC 660-136164/18	1DD04010.D
Level 5	ICIS 660-136164/19	1DD04011.D
Level 6	IC 660-136164/20	1DD04012.D
Level 7	IC 660-136164/21	1DD04013.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	0.9331 1.0230	0.9606 1.0509	1.0286	0.9649	0.9984	Ave		0.9942			0.0000	4.3		15.0			
2-Methylnaphthalene	0.5806 0.6693	0.6114 0.6984	0.6517	0.6297	0.6515	Ave		0.6418			0.0000	6.0		15.0			
1-Methylnaphthalene	0.5558 0.6314	0.5782 0.6544	0.6189	0.5919	0.6119	Ave		0.6061			0.0000	5.5		15.0			
Acenaphthylene	1.4312 1.8297	1.5518 1.8878	1.7317	1.6795	1.7392	Ave		1.6930			0.0000	9.3		15.0			
Acenaphthene	1.0016 1.0873	0.9902 1.1219	1.0649	1.0164	1.0329	Ave		1.0450			0.0000	4.6		15.0			
Fluorene	1.1332 1.3072	1.1795 1.3301	1.2333	1.2265	1.2526	Ave		1.2375			0.0000	5.5		15.0			
Phenanthrene	1.0628 1.1227	1.0409 1.1914	1.1226	1.0753	1.0969	Ave		1.1018			0.0000	4.5		15.0			
Anthracene	0.9667 1.1508	1.0104 1.2102	1.1116	1.0846	1.1206	Ave		1.0936			0.0000	7.6		15.0			
Carbazole	0.8539 0.9974	0.9170 1.0575	0.9788	0.9568	0.9906	Ave		0.9646			0.0000	6.7		15.0			
Fluoranthene	1.0349 1.1765	1.0636 1.2407	1.1552	1.1188	1.1468	Ave		1.1338			0.0000	6.1		15.0			
Pyrene	1.1042 1.2400	1.1445 1.2796	1.2302	1.1952	1.2147	Ave		1.2012			0.0000	5.0		15.0			
Benzo[a]anthracene	1.5223 1.0884	1.1349 1.0935	1.1146	1.0605	1.0812	Ave		1.1565			0.0000	14.1		15.0			
Chrysene	1.1462 1.0803	1.0503 1.1335	1.0831	1.0383	1.0590	Ave		1.0844			0.0000	3.8		15.0			
Benzo[b]fluoranthene	0.9638 1.0305	0.9264 1.0697	1.0233	0.9705	1.0102	Ave		0.9992			0.0000	4.8		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.: 680-89695-1 Analy Batch No.: 136164

SDG No.: 68089695-1

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

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

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	0.9941 1.0870	1.0278 1.1123	1.0413	1.0574	1.0488	Ave		1.0527			0.0000	3.7		15.0			
Benzo[a]pyrene	0.9363 1.0554	0.9330 1.0817	1.0086	0.9978	1.0150	Ave		1.0040			0.0000	5.5		15.0			
Indeno[1,2,3-cd]pyrene	0.9719 1.1444	1.0047 1.2203	1.0673	1.0253	1.0598	Ave		1.0705			0.0000	8.0		15.0			
Dibenz(a,h)anthracene	1.0008 1.0474	0.9200 1.0891	1.0022	0.9846	1.0127	Ave		1.0081			0.0000	5.2		15.0			
Benzo[g,h,i]perylene	0.9959 1.0588	1.0032 1.0675	1.0494	1.0184	1.0221	Ave		1.0308			0.0000	2.7		15.0			
o-Terphenyl	0.5239 0.6240	0.5611 0.6847	0.6139	0.5898	0.6214	Ave		0.6027			0.0000	8.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89695-1 Analy B

SDG No.: 68089695-1

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

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibra

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136164/15	1DD04007.D
Level 2	IC 660-136164/16	1DD04008.D
Level 3	IC 660-136164/17	1DD04009.D
Level 4	IC 660-136164/18	1DD04010.D
Level 5	ICIS 660-136164/19	1DD04011.D
Level 6	IC 660-136164/20	1DD04012.D
Level 7	IC 660-136164/21	1DD04013.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	11503 1777021	59216 3211548	316194	614716	1235557	0.200 30.0	1. 50
2-Methylnaphthalene	NPT	Ave	7158 1162560	37688 2134320	200332	401151	806286	0.200 30.0	1. 50
1-Methylnaphthalene	NPT	Ave	6852 1096847	35645 1999874	190230	377068	757317	0.200 30.0	1. 50
Acenaphthylene	ANT	Ave	10298 1852399	56340 3396591	314191	620756	1275622	0.200 30.0	1. 50
Acenaphthene	ANT	Ave	7207 1100779	35951 2018481	193205	375673	757590	0.200 30.0	1. 50
Fluorene	ANT	Ave	8154 1323451	42826 2393163	223769	453336	918747	0.200 30.0	1. 50
Phenanthrene	PHN	Ave	12866 1932978	63070 3534794	338739	657435	1331875	0.200 30.0	1. 50
Anthracene	PHN	Ave	11703 1981347	61222 3590722	335430	663091	1360668	0.200 30.0	1. 50
Carbazole	PHN	Ave	10338 1717245	55563 3137679	295345	584967	1202897	0.200 30.0	1. 50
Fluoranthene	PHN	Ave	12529 2025512	64445 3681257	348578	684049	1392506	0.200 30.0	1. 50
Pyrene	CRY	Ave	13274 2181708	69252 3965627	374480	738839	1496990	0.200 30.0	1. 50
Benzo[a]anthracene	CRY	Ave	18301 1914899	68675 3388838	339292	655565	1332372	0.200 30.0	1. 50
Chrysene	CRY	Ave	13779 1900592	63553 3512644	329706	641842	1305118	0.200 30.0	1. 50
Benzo[b]fluoranthene	PRY	Ave	12005 1811151	57946 3290902	323060	612455	1270704	0.200 30.0	1. 50
Benzo[k]fluoranthene	PRY	Ave	12382 1910468	64288 3421834	328752	667284	1319239	0.200 30.0	1. 50
Benzo[a]pyrene	PRY	Ave	11662 1854979	58354 3327888	318431	629684	1276688	0.200 30.0	1. 50
Indeno[1,2,3-cd]pyrene	PRY	Ave	12106 2011375	62840 3754268	336963	647015	1333044	0.200 30.0	1. 50
Dibenz(a,h)anthracene	PRY	Ave	12466 1840819	57541 3350541	316396	621340	1273836	0.200 30.0	1. 50
Benzo[g,h,i]perylene	PRY	Ave	12405 1860821	62750 3284166	331324	642692	1285637	0.200 30.0	1. 50
o-Terphenyl	PHN	Ave	6343 1074388	33997 2031596	185249	360585	754512	0.200 30.0	1. 50

Curve Type Legend:
Ave = Average ISTD

136164

N
2874

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 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04007.D
Lab Smp Id: IC-1531396
Inj Date : 04-APR-2013 13:49
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.091	6.091	(1.000)	2465524	40.0000	
* 6 Acenaphthene-d10	164	7.766	7.766	(1.000)	1439075	40.0000	
* 9 Phenanthrene-d10	188	9.023	9.023	(1.000)	2421253	40.0000	
$ 13 o-Terphenyl	230	9.329	9.329	(1.034)	6343	0.20000	0.17
* 17 Chrysene-d12	240	11.338	11.338	(1.000)	2404329	40.0000	
* 22 Perylene-d12	264	13.165	13.165	(1.000)	2491199	40.0000	
2 Naphthalene	128	6.109	6.109	(1.003)	11503	0.20000	0.19
3 2-Methylnaphthalene	142	6.814	6.814	(1.119)	7158	0.20000	0.18
4 1-Methylnaphthalene	142	6.908	6.908	(1.134)	6852	0.20000	0.18
5 Acenaphthylene	152	7.637	7.637	(0.983)	10298	0.20000	0.17
7 Acenaphthene	154	7.789	7.789	(1.003)	7207	0.20000	0.19
8 Fluorene	166	8.236	8.236	(1.061)	8154	0.20000	0.18
10 Phenanthrene	178	9.041	9.041	(1.002)	12866	0.20000	0.19
11 Anthracene	178	9.082	9.082	(1.007)	11703	0.20000	0.18
12 Carbazole	167	9.223	9.223	(1.022)	10338	0.20000	0.18
14 Fluoranthene	202	10.022	10.022	(1.111)	12529	0.20000	0.18
15 Pyrene	202	10.210	10.210	(0.901)	13274	0.20000	0.18
16 Benzo(a)anthracene	228	11.321	11.321	(0.998)	18301	0.20000	0.28
18 Chrysene	228	11.356	11.356	(1.002)	13779	0.20000	0.21
19 Benzo(b)fluoranthene	252	12.613	12.613	(0.958)	12005	0.20000	0.19
20 Benzo(k)fluoranthene	252	12.648	12.648	(0.961)	12382	0.20000	0.19
21 Benzo(a)pyrene	252	13.060	13.060	(0.992)	11662	0.20000	0.19
23 Indeno(1,2,3-cd)pyrene	276	14.734	14.734	(1.119)	12106	0.20000	0.18(M)
24 Dibenzo(a,h)anthracene	278	14.758	14.758	(1.121)	12466	0.20000	0.20(M)
25 Benzo(g,h,i)perylene	276	15.175	15.175	(1.153)	12405	0.20000	0.19

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04007.D

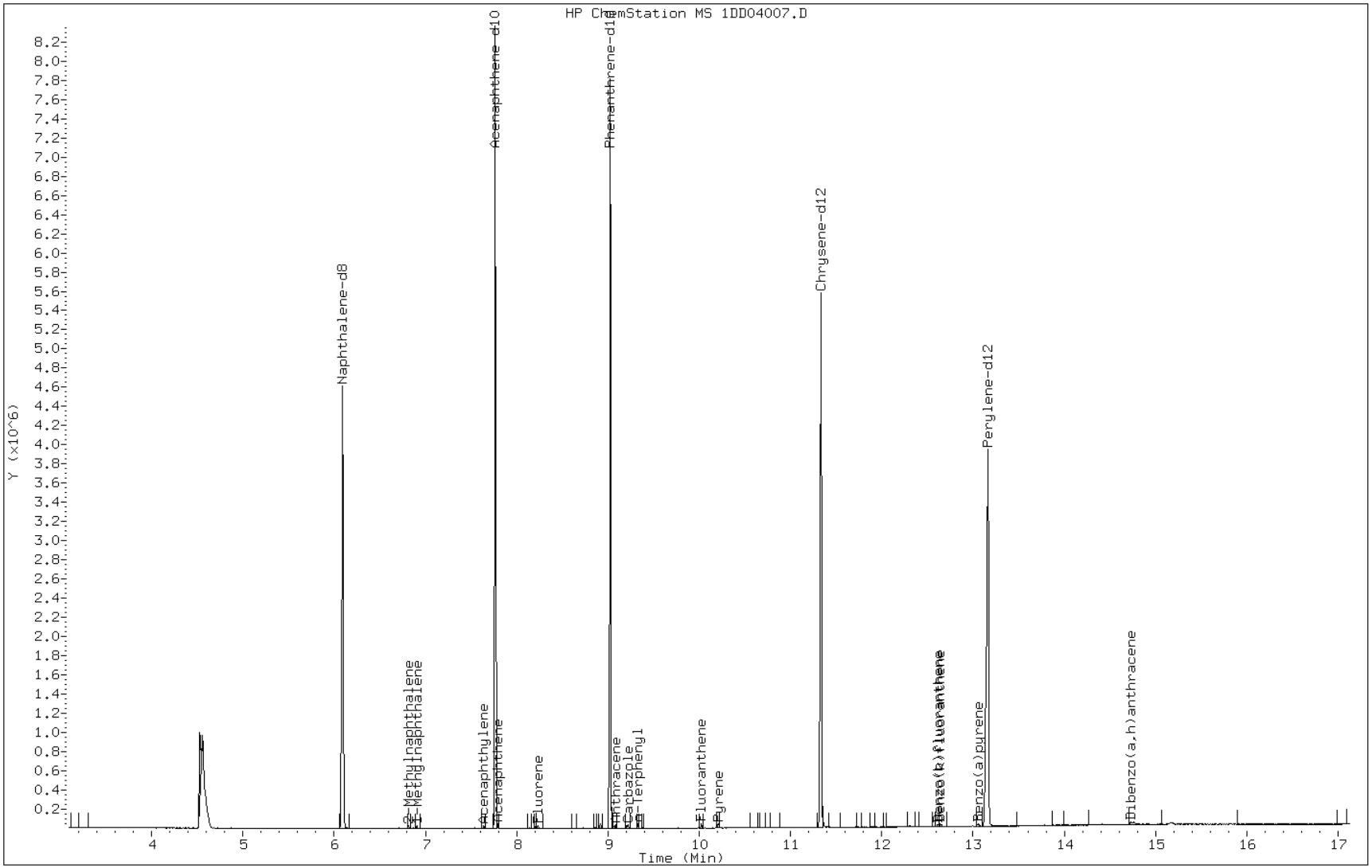
Date: 04-APR-2013 13:49

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531396

Operator: SCC



Manual Integration Report

Data File: 1DD04007.D
Inj. Date and Time: 04-APR-2013 13:49
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

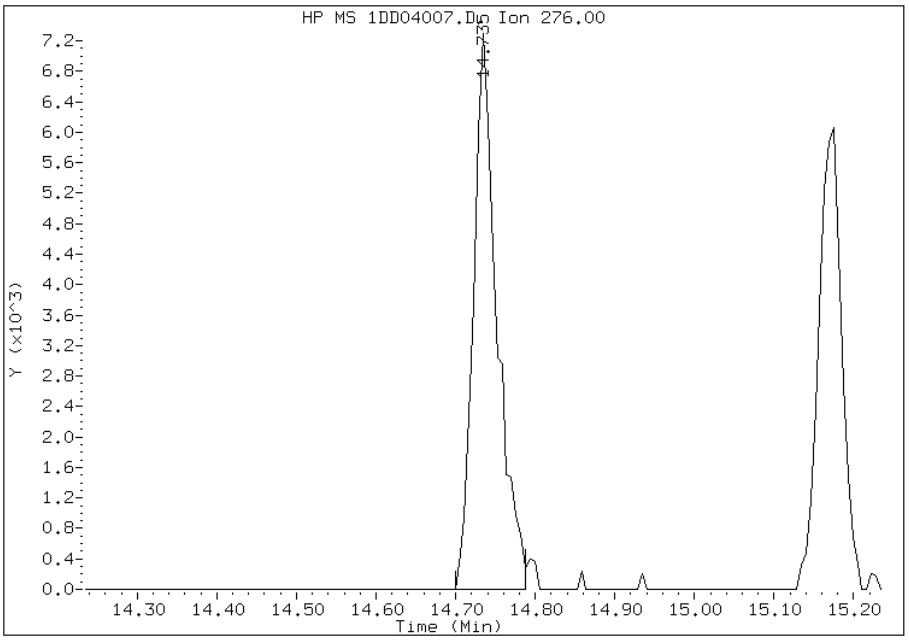
Processing Integration Results

RT: 14.73

Response: 14910

Amount: 0

Conc: 0



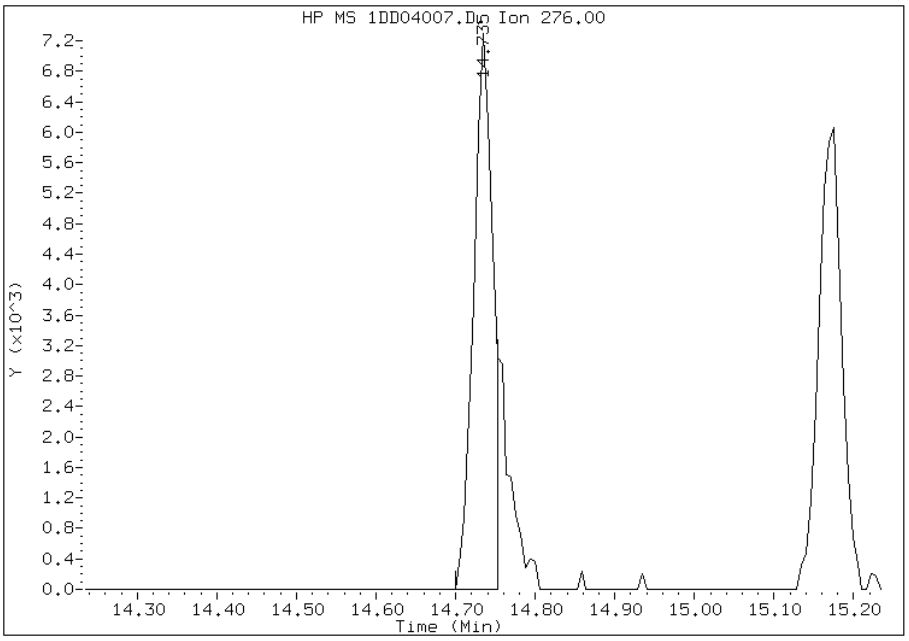
Manual Integration Results

RT: 14.73

Response: 12106

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD04007.D
Inj. Date and Time: 04-APR-2013 13:49
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

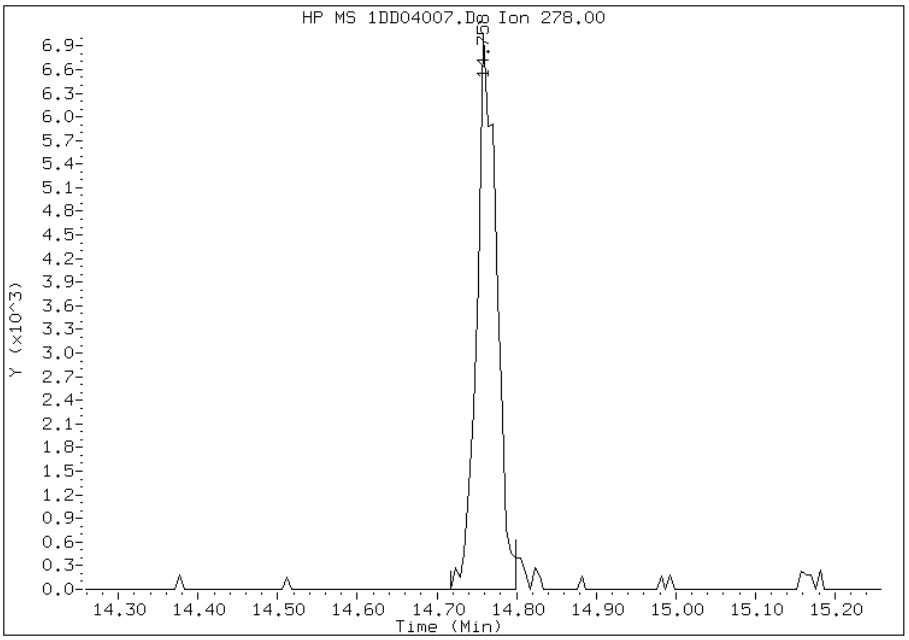
Processing Integration Results

RT: 14.76

Response: 12250

Amount: 0

Conc: 0



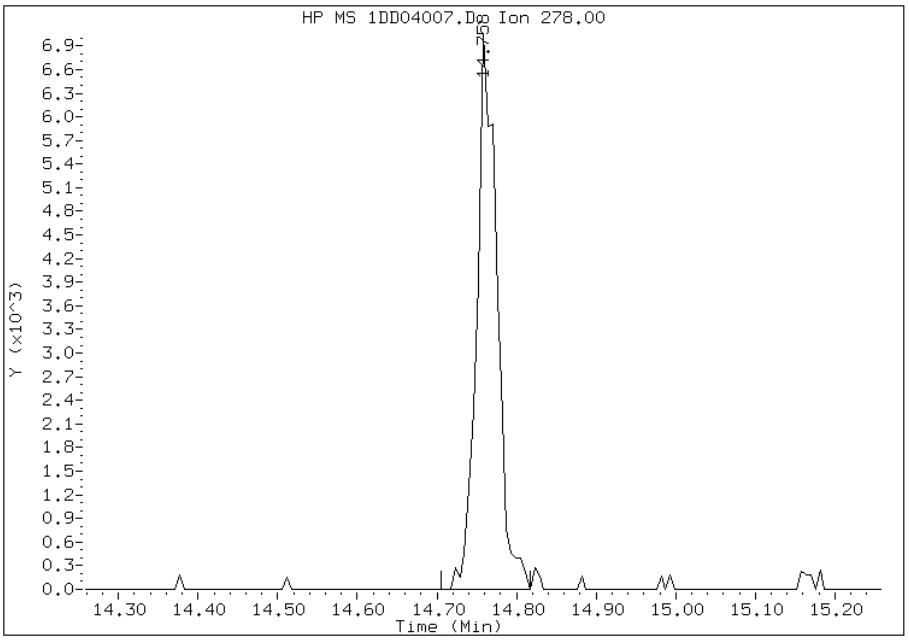
Manual Integration Results

RT: 14.76

Response: 12466

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04008.D
Lab Smp Id: IC-1531398
Inj Date : 04-APR-2013 14:11
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 13:49 Cal File: 1DD04007.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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.089	6.089	(1.000)	2465772	40.0000	
* 6 Acenaphthene-d10	164	7.769	7.769	(1.000)	1452284	40.0000	
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2423707	40.0000	
$ 13 o-Terphenyl	230	9.332	9.332	(1.034)	33997	1.00000	0.93
* 17 Chrysene-d12	240	11.336	11.336	(1.000)	2420423	40.0000	
* 22 Perylene-d12	264	13.163	13.163	(1.000)	2501899	40.0000	
2 Naphthalene	128	6.112	6.112	(1.004)	59216	1.00000	0.97
3 2-Methylnaphthalene	142	6.817	6.817	(1.120)	37688	1.00000	0.95
4 1-Methylnaphthalene	142	6.911	6.911	(1.135)	35645	1.00000	0.95
5 Acenaphthylene	152	7.640	7.640	(0.983)	56340	1.00000	0.92
7 Acenaphthene	154	7.793	7.793	(1.003)	35951	1.00000	0.95
8 Fluorene	166	8.233	8.233	(1.060)	42826	1.00000	0.95
10 Phenanthrene	178	9.038	9.038	(1.001)	63070	1.00000	0.94
11 Anthracene	178	9.080	9.080	(1.006)	61222	1.00000	0.92
12 Carbazole	167	9.221	9.221	(1.021)	55563	1.00000	0.95
14 Fluoranthene	202	10.020	10.020	(1.110)	64445	1.00000	0.94
15 Pyrene	202	10.208	10.208	(0.900)	69252	1.00000	0.95
16 Benzo(a)anthracene	228	11.318	11.318	(0.998)	68675	1.00000	1.0
18 Chrysene	228	11.359	11.359	(1.002)	63553	1.00000	0.97
19 Benzo(b)fluoranthene	252	12.611	12.611	(0.958)	57946	1.00000	0.93
20 Benzo(k)fluoranthene	252	12.646	12.646	(0.961)	64288	1.00000	0.98
21 Benzo(a)pyrene	252	13.057	13.057	(0.992)	58354	1.00000	0.93
23 Indeno(1,2,3-cd)pyrene	276	14.732	14.732	(1.119)	62840	1.00000	0.94(M)
24 Dibenzo(a,h)anthracene	278	14.761	14.761	(1.121)	57541	1.00000	0.91(M)
25 Benzo(g,h,i)perylene	276	15.167	15.167	(1.152)	62750	1.00000	0.97

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04008.D

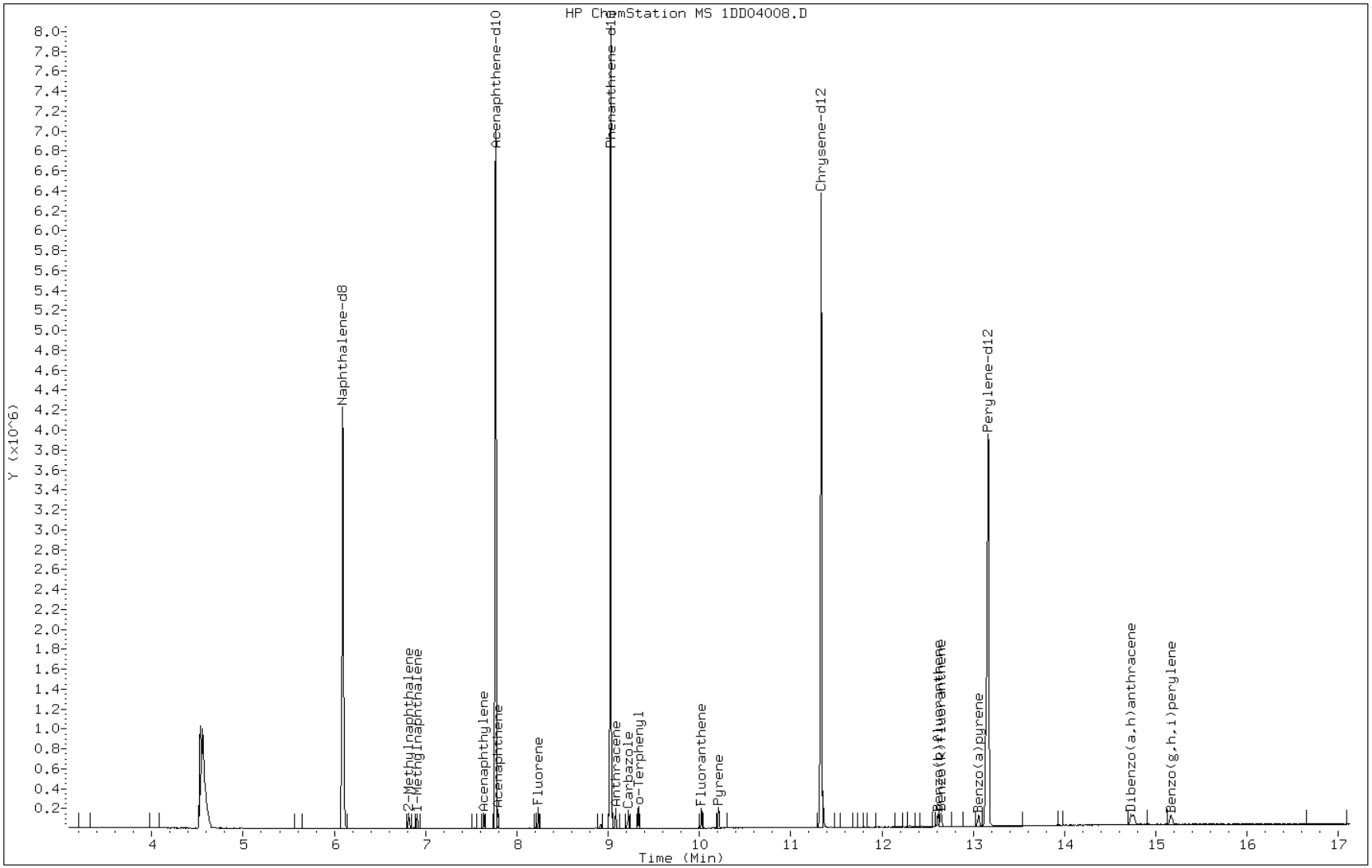
Date: 04-APR-2013 14:11

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531398

Operator: SCC



Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

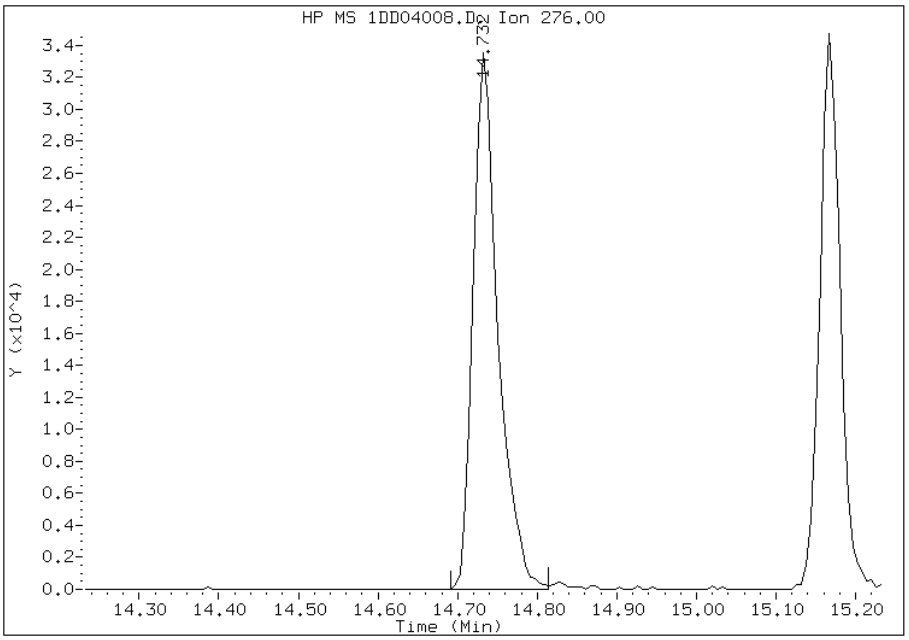
Processing Integration Results

RT: 14.73

Response: 72512

Amount: 1

Conc: 1



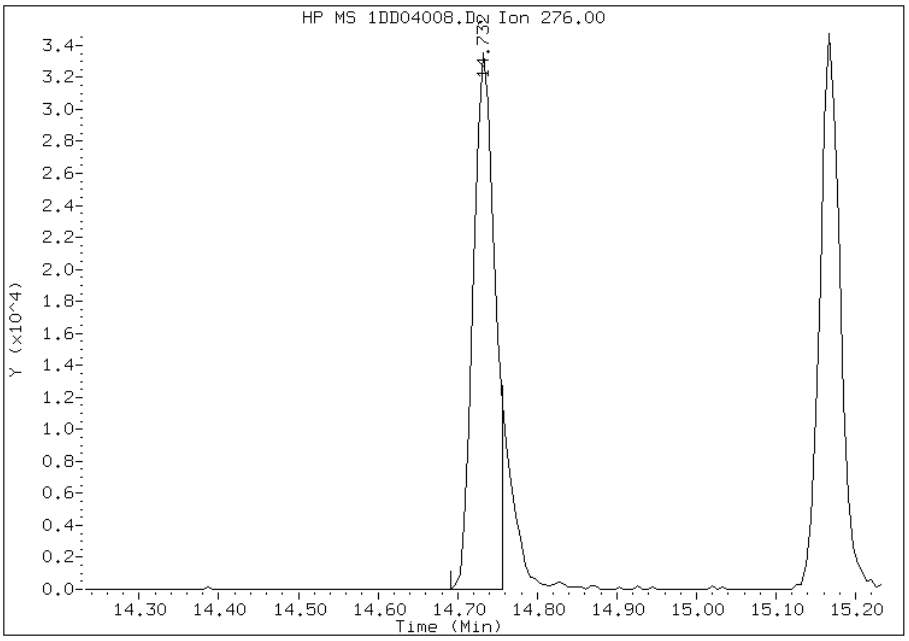
Manual Integration Results

RT: 14.73

Response: 62840

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

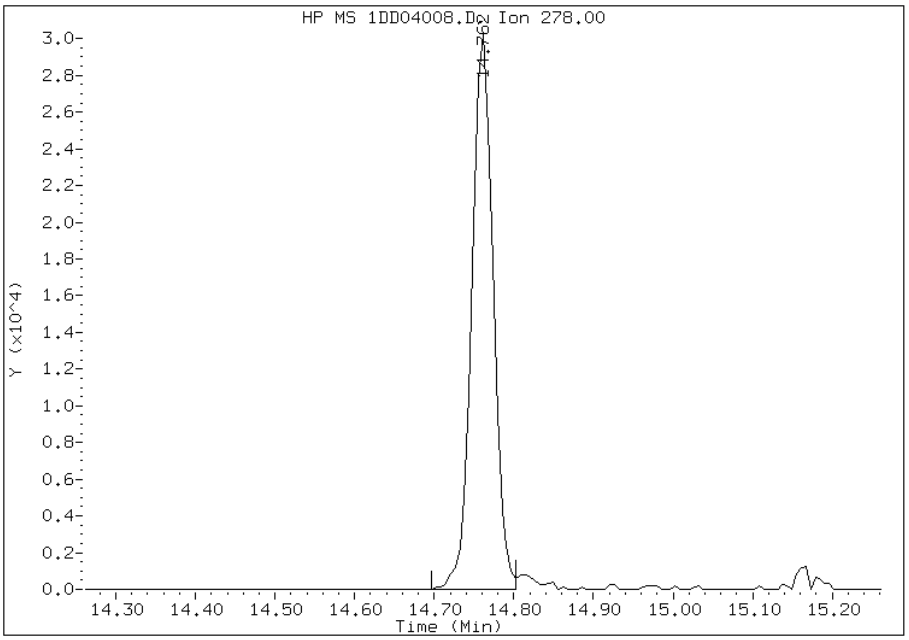
Processing Integration Results

RT: 14.76

Response: 56125

Amount: 1

Conc: 1



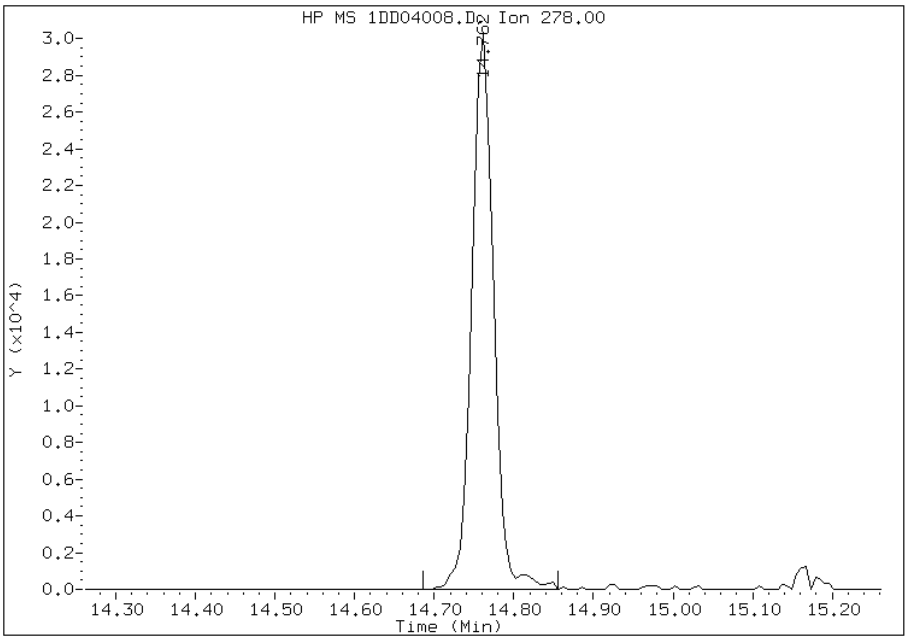
Manual Integration Results

RT: 14.76

Response: 57541

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04009.D
Lab Smp Id: IC-1531399
Inj Date : 04-APR-2013 14:34
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:11 Cal File: 1DD04008.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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.093	6.093	(1.000)	2459101	40.0000	
* 6 Acenaphthene-d10	164	7.768	7.768	(1.000)	1451469	40.0000	
* 9 Phenanthrene-d10	188	9.025	9.025	(1.000)	2413975	40.0000	
$ 13 o-Terphenyl	230	9.331	9.331	(1.034)	185249	5.00000	5.1
* 17 Chrysene-d12	240	11.340	11.340	(1.000)	2435324	40.0000	
* 22 Perylene-d12	264	13.167	13.167	(1.000)	2525708	40.0000	
2 Naphthalene	128	6.111	6.111	(1.003)	316194	5.00000	5.2
3 2-Methylnaphthalene	142	6.816	6.816	(1.119)	200332	5.00000	5.1
4 1-Methylnaphthalene	142	6.910	6.910	(1.134)	190230	5.00000	5.1
5 Acenaphthylene	152	7.639	7.639	(0.983)	314191	5.00000	5.1
7 Acenaphthene	154	7.791	7.791	(1.003)	193205	5.00000	5.1
8 Fluorene	166	8.232	8.232	(1.060)	223769	5.00000	5.0
10 Phenanthrene	178	9.043	9.043	(1.002)	338739	5.00000	5.1
11 Anthracene	178	9.084	9.084	(1.007)	335430	5.00000	5.1
12 Carbazole	167	9.219	9.219	(1.021)	295345	5.00000	5.1
14 Fluoranthene	202	10.024	10.024	(1.111)	348578	5.00000	5.1
15 Pyrene	202	10.212	10.212	(0.901)	374480	5.00000	5.1
16 Benzo(a)anthracene	228	11.323	11.323	(0.998)	339292	5.00000	5.1
18 Chrysene	228	11.358	11.358	(1.002)	329706	5.00000	5.0
19 Benzo(b)fluoranthene	252	12.615	12.615	(0.958)	323060	5.00000	5.1
20 Benzo(k)fluoranthene	252	12.650	12.650	(0.961)	328752	5.00000	4.9
21 Benzo(a)pyrene	252	13.062	13.062	(0.992)	318431	5.00000	5.0
23 Indeno(1,2,3-cd)pyrene	276	14.742	14.742	(1.120)	336963	5.00000	5.0(M)
24 Dibenzo(a,h)anthracene	278	14.766	14.766	(1.121)	316396	5.00000	5.0
25 Benzo(g,h,i)perylene	276	15.177	15.177	(1.153)	331324	5.00000	5.1

QC Flag Legend

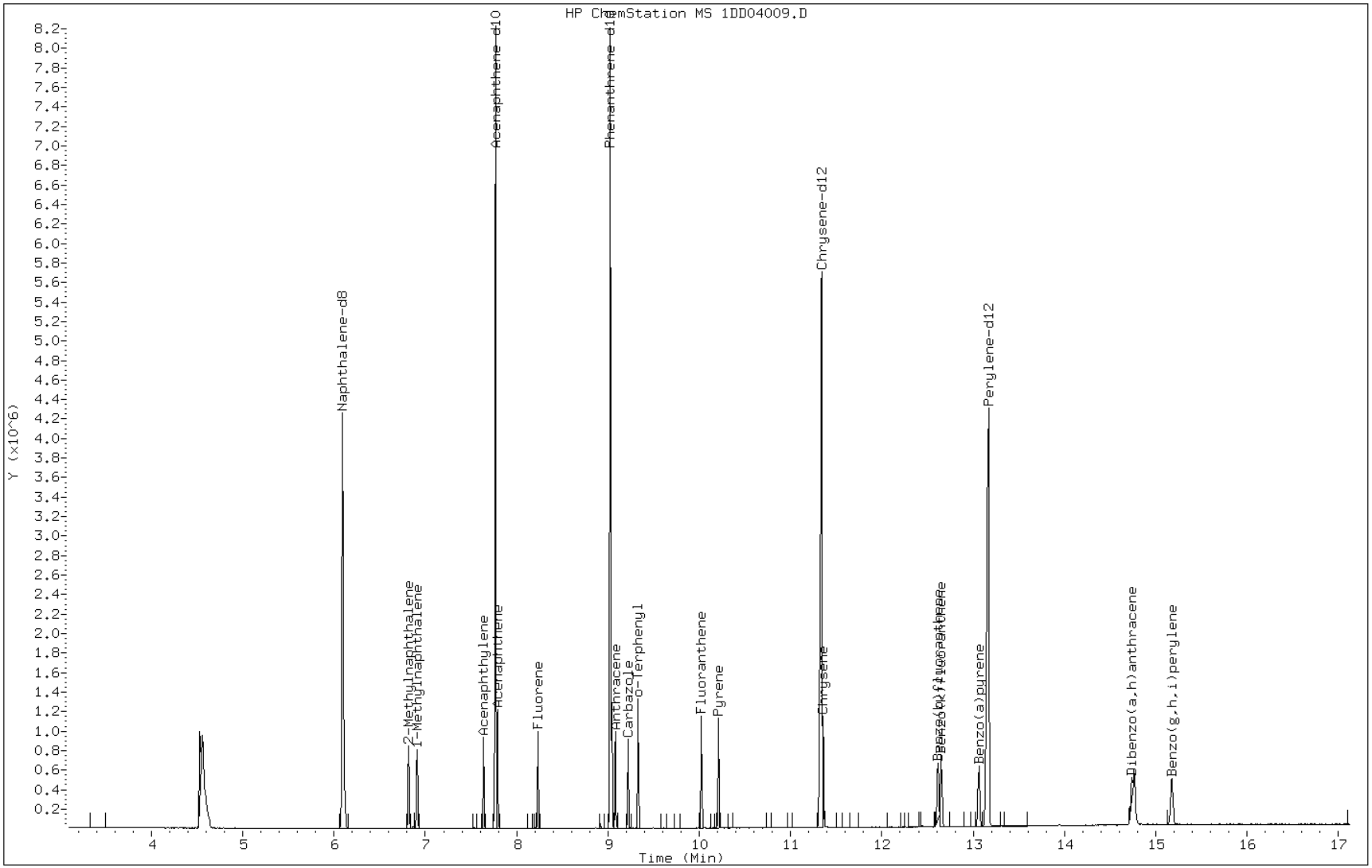
M - Compound response manually integrated.

Data File: 1DD04009.D

Date: 04-APR-2013 14:34

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531399 Operator: SCC



Manual Integration Report

Data File: 1DD04009.D
Inj. Date and Time: 04-APR-2013 14:34
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

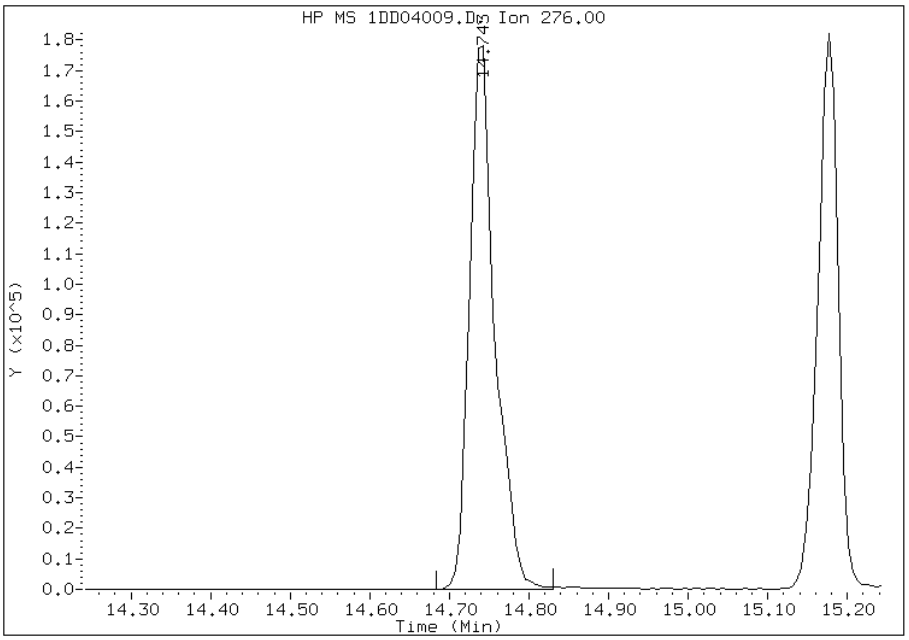
Processing Integration Results

RT: 14.74

Response: 395308

Amount: 5

Conc: 5



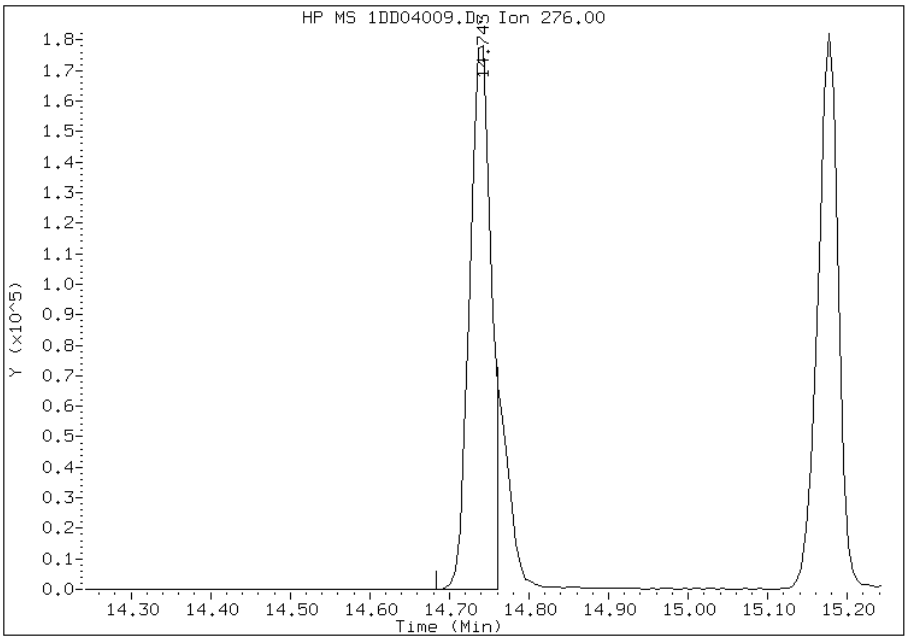
Manual Integration Results

RT: 14.74

Response: 336963

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04010.D
Lab Smp Id: IC-1531400
Inj Date : 04-APR-2013 14:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:34 Cal File: 1DD04009.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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.093	6.093	(1.000)	2548377	40.0000	
* 6 Acenaphthene-d10	164	7.767	7.767	(1.000)	1478460	40.0000	
* 9 Phenanthrene-d10	188	9.025	9.025	(1.000)	2445573	40.0000	
$ 13 o-Terphenyl	230	9.330	9.330	(1.034)	360585	10.0000	9.8
* 17 Chrysene-d12	240	11.340	11.340	(1.000)	2472736	40.0000	
* 22 Perylene-d12	264	13.167	13.167	(1.000)	2524268	40.0000	
2 Naphthalene	128	6.110	6.110	(1.003)	614716	10.0000	9.7
3 2-Methylnaphthalene	142	6.816	6.816	(1.119)	401151	10.0000	9.8
4 1-Methylnaphthalene	142	6.910	6.910	(1.134)	377068	10.0000	9.8
5 Acenaphthylene	152	7.638	7.638	(0.983)	620756	10.0000	9.9
7 Acenaphthene	154	7.791	7.791	(1.003)	375673	10.0000	9.7
8 Fluorene	166	8.237	8.237	(1.061)	453336	10.0000	9.9
10 Phenanthrene	178	9.042	9.042	(1.002)	657435	10.0000	9.8
11 Anthracene	178	9.083	9.083	(1.007)	663091	10.0000	9.9
12 Carbazole	167	9.224	9.224	(1.022)	584967	10.0000	9.9
14 Fluoranthene	202	10.024	10.024	(1.111)	684049	10.0000	9.9
15 Pyrene	202	10.212	10.212	(0.901)	738839	10.0000	9.9
16 Benzo(a)anthracene	228	11.322	11.322	(0.998)	655565	10.0000	9.7
18 Chrysene	228	11.363	11.363	(1.002)	641842	10.0000	9.6
19 Benzo(b)fluoranthene	252	12.621	12.621	(0.959)	612455	10.0000	9.7
20 Benzo(k)fluoranthene	252	12.656	12.656	(0.961)	667284	10.0000	10
21 Benzo(a)pyrene	252	13.067	13.067	(0.992)	629684	10.0000	9.9
23 Indeno(1,2,3-cd)pyrene	276	14.747	14.747	(1.120)	647015	10.0000	9.6(M)
24 Dibenzo(a,h)anthracene	278	14.777	14.777	(1.122)	621340	10.0000	9.8
25 Benzo(g,h,i)perylene	276	15.188	15.188	(1.153)	642692	10.0000	9.9

QC Flag Legend

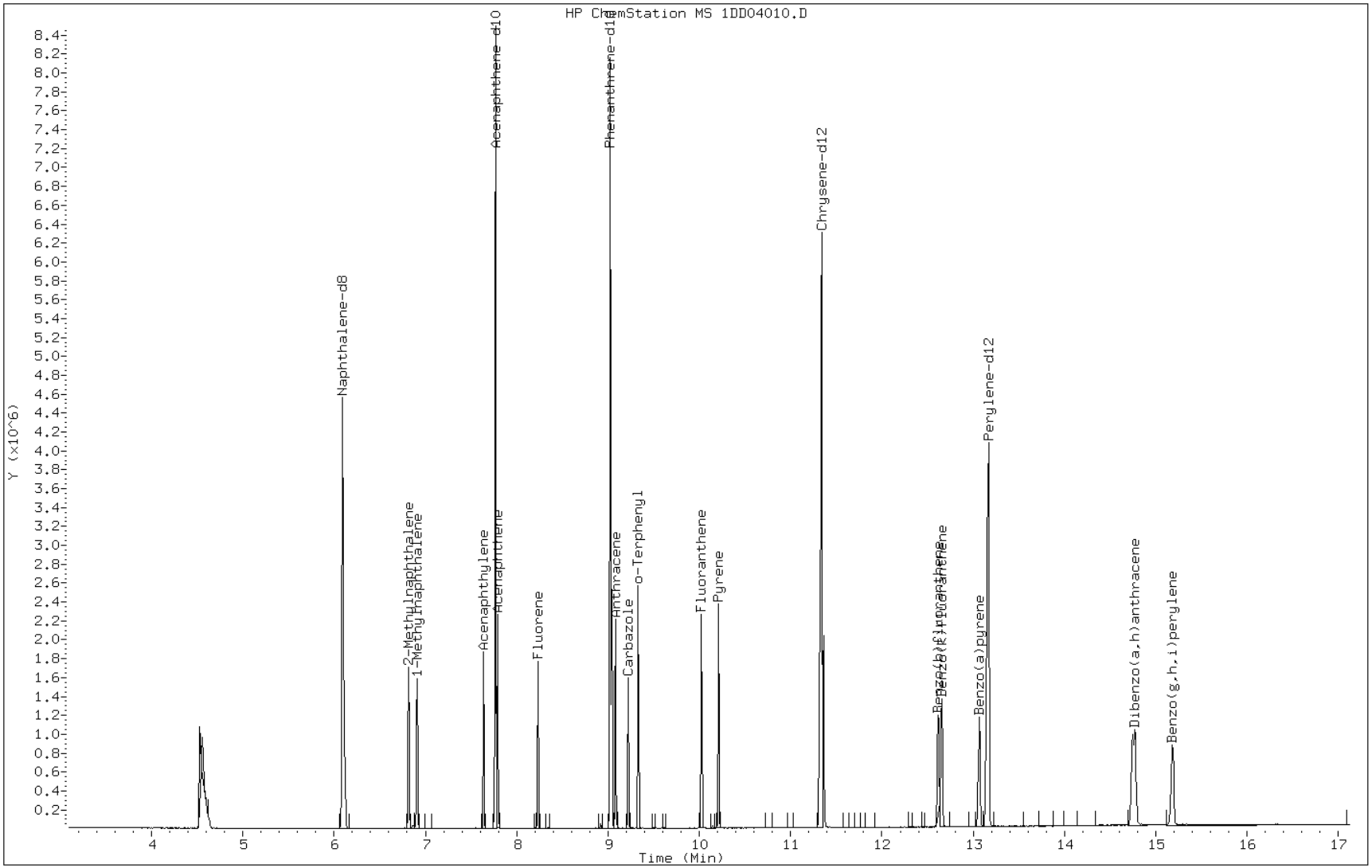
M - Compound response manually integrated.

Data File: 1DD04010.D

Date: 04-APR-2013 14:57

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531400 Operator: SCC



Manual Integration Report

Data File: 1DD04010.D
Inj. Date and Time: 04-APR-2013 14:57
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

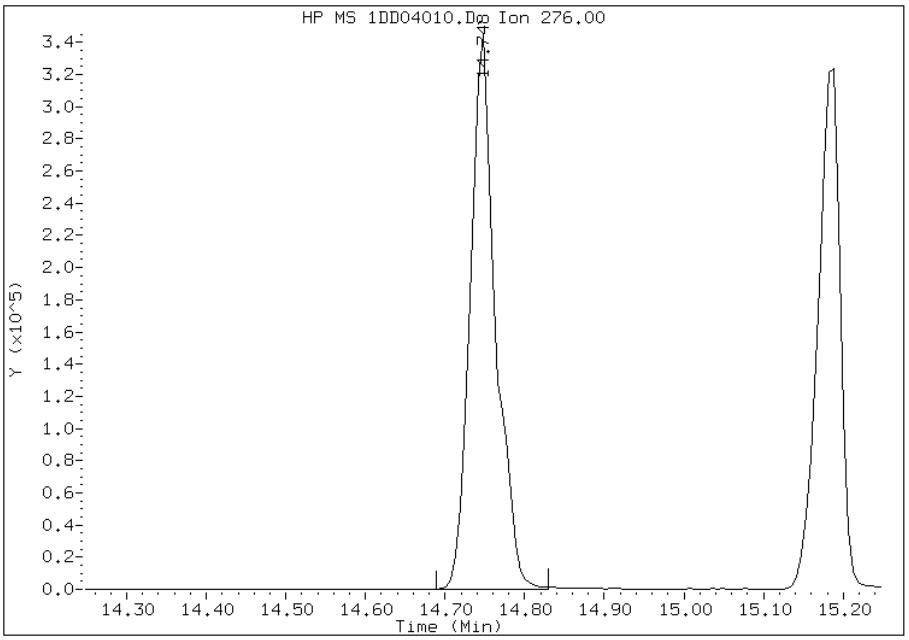
Processing Integration Results

RT: 14.75

Response: 759012

Amount: 10

Conc: 10



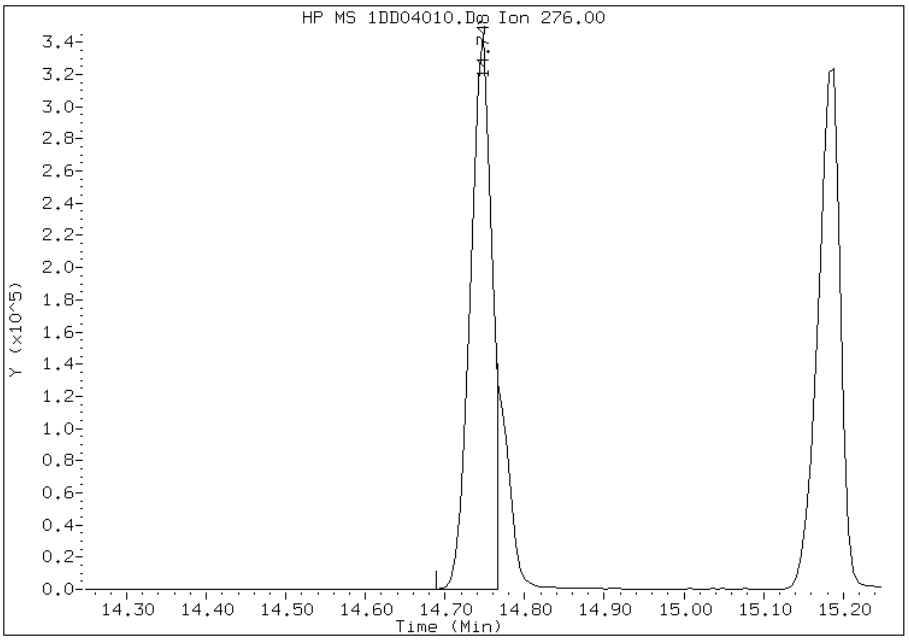
Manual Integration Results

RT: 14.75

Response: 647015

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04011.D
Lab Smp Id: ICIS-1531401
Inj Date : 04-APR-2013 15:19
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:57 Cal File: 1DD04010.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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.089	6.089	(1.000)	2475113	40.0000	
* 6 Acenaphthene-d10	164	7.769	7.769	(1.000)	1466924	40.0000	
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2428512	40.0000	
$ 13 o-Terphenyl	230	9.332	9.332	(1.034)	754512	20.0000	21
* 17 Chrysene-d12	240	11.342	11.342	(1.000)	2464730	40.0000	
* 22 Perylene-d12	264	13.169	13.169	(1.000)	2515643	40.0000	
2 Naphthalene	128	6.113	6.113	(1.004)	1235557	20.0000	20
3 2-Methylnaphthalene	142	6.818	6.818	(1.120)	806286	20.0000	20
4 1-Methylnaphthalene	142	6.912	6.912	(1.135)	757317	20.0000	20
5 Acenaphthylene	152	7.640	7.640	(0.983)	1275622	20.0000	20
7 Acenaphthene	154	7.793	7.793	(1.003)	757590	20.0000	20
8 Fluorene	166	8.234	8.234	(1.060)	918747	20.0000	20
10 Phenanthrene	178	9.044	9.044	(1.002)	1331875	20.0000	20
11 Anthracene	178	9.086	9.086	(1.007)	1360668	20.0000	20
12 Carbazole	167	9.227	9.227	(1.022)	1202897	20.0000	20
14 Fluoranthene	202	10.026	10.026	(1.111)	1392506	20.0000	20
15 Pyrene	202	10.214	10.214	(0.901)	1496990	20.0000	20
16 Benzo(a)anthracene	228	11.324	11.324	(0.998)	1332372	20.0000	20
18 Chrysene	228	11.365	11.365	(1.002)	1305118	20.0000	20
19 Benzo(b)fluoranthene	252	12.623	12.623	(0.959)	1270704	20.0000	20
20 Benzo(k)fluoranthene	252	12.664	12.664	(0.962)	1319239	20.0000	20
21 Benzo(a)pyrene	252	13.075	13.075	(0.993)	1276688	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	14.761	14.761	(1.121)	1333044	20.0000	20(M)
24 Dibenzo(a,h)anthracene	278	14.785	14.785	(1.123)	1273836	20.0000	20
25 Benzo(g,h,i)perylene	276	15.202	15.202	(1.154)	1285637	20.0000	20

QC Flag Legend

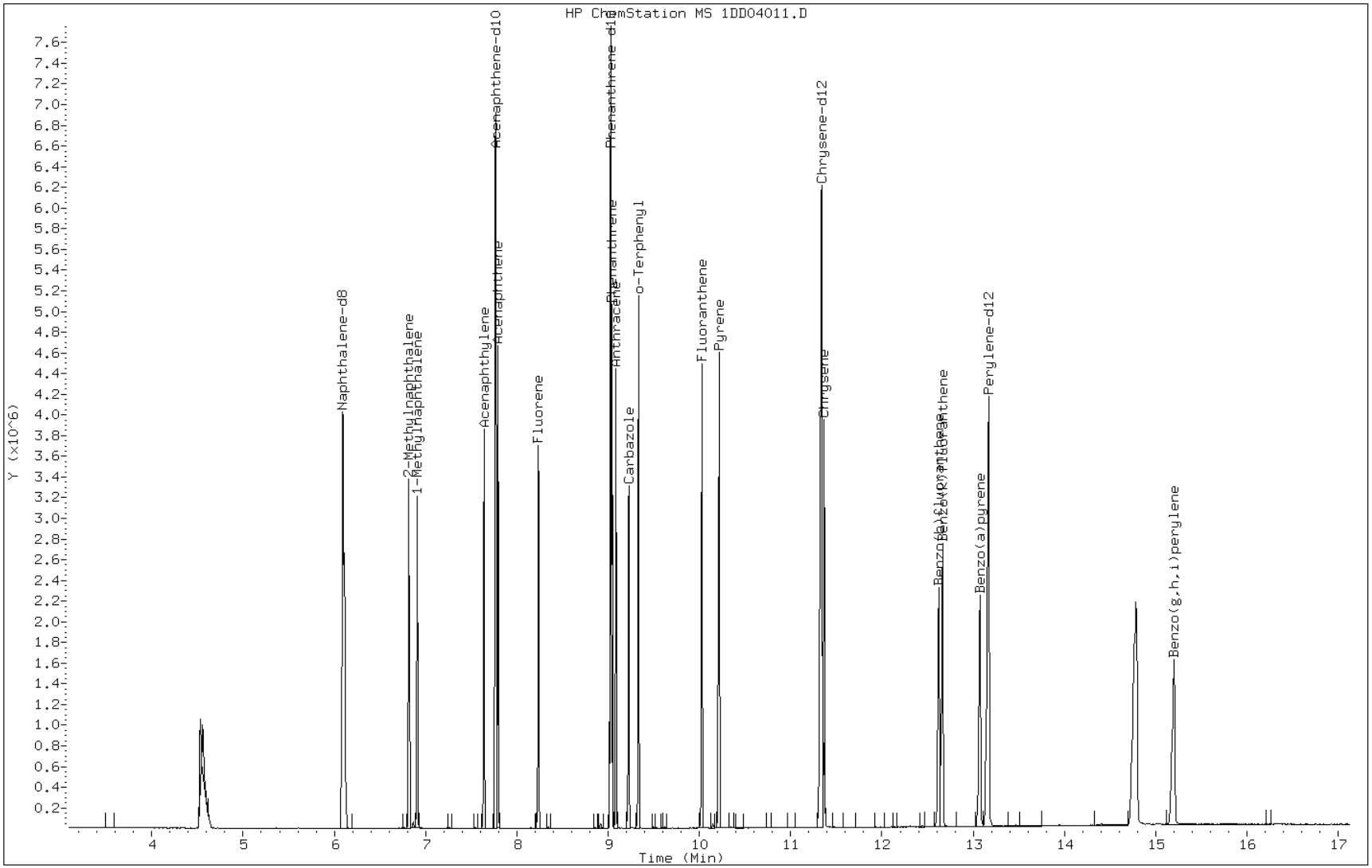
M - Compound response manually integrated.

Data File: 1DD04011.D

Date: 04-APR-2013 15:19

Client ID: Instrument: BSMSD.i

Sample Info: ICIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1DD04011.D
Inj. Date and Time: 04-APR-2013 15:19
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

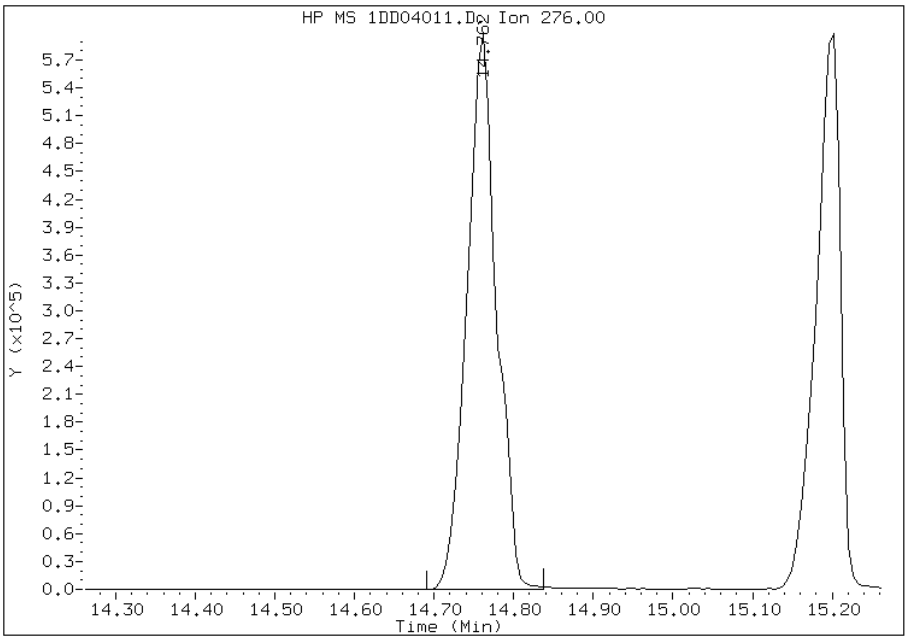
Processing Integration Results

RT: 14.76

Response: 1546230

Amount: 22

Conc: 22



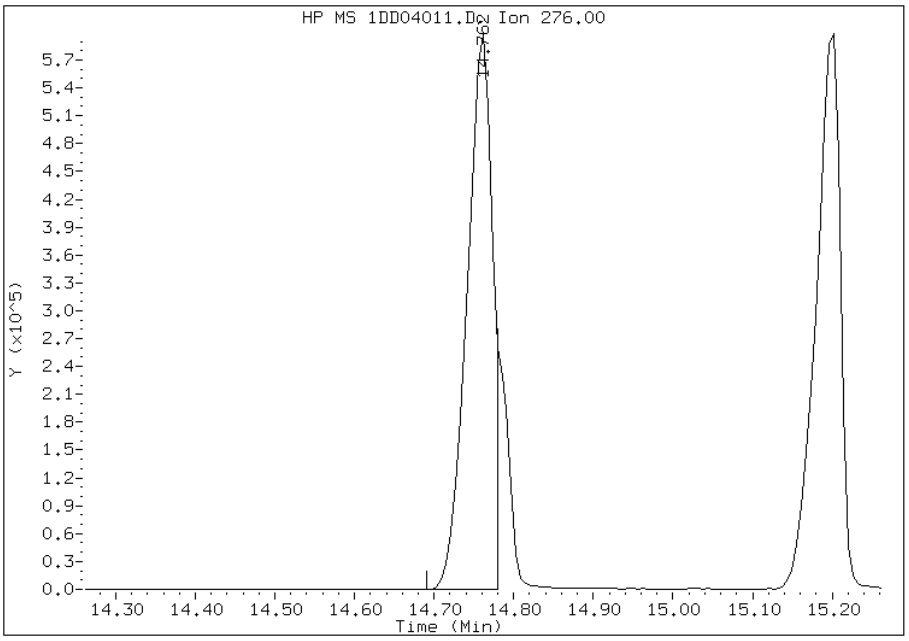
Manual Integration Results

RT: 14.76

Response: 1333044

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:26
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04012.D
Lab Smp Id: IC-1531402
Inj Date : 04-APR-2013 15:42
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 15:19 Cal File: 1DD04011.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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.090	6.090	(1.000)	2316091	40.0000	
* 6 Acenaphthene-d10	164	7.765	7.765	(1.000)	1349878	40.0000	
* 9 Phenanthrene-d10	188	9.028	9.028	(1.000)	2295562	40.0000	
$ 13 o-Terphenyl	230	9.334	9.334	(1.034)	1074388	30.0000	31
* 17 Chrysene-d12	240	11.343	11.343	(1.000)	2345845	40.0000	
* 22 Perylene-d12	264	13.170	13.170	(1.000)	2343379	40.0000	
2 Naphthalene	128	6.114	6.114	(1.004)	1777021	30.0000	31
3 2-Methylnaphthalene	142	6.819	6.819	(1.120)	1162560	30.0000	31
4 1-Methylnaphthalene	142	6.913	6.913	(1.135)	1096847	30.0000	31
5 Acenaphthylene	152	7.642	7.642	(0.984)	1852399	30.0000	32
7 Acenaphthene	154	7.794	7.794	(1.004)	1100779	30.0000	31
8 Fluorene	166	8.235	8.235	(1.061)	1323451	30.0000	32
10 Phenanthrene	178	9.046	9.046	(1.002)	1932978	30.0000	30
11 Anthracene	178	9.087	9.087	(1.007)	1981347	30.0000	32
12 Carbazole	167	9.228	9.228	(1.022)	1717245	30.0000	31
14 Fluoranthene	202	10.027	10.027	(1.111)	2025512	30.0000	31
15 Pyrene	202	10.215	10.215	(0.901)	2181708	30.0000	31
16 Benzo(a)anthracene	228	11.326	11.326	(0.998)	1914899	30.0000	30
18 Chrysene	228	11.367	11.367	(1.002)	1900592	30.0000	30
19 Benzo(b)fluoranthene	252	12.630	12.630	(0.959)	1811151	30.0000	31
20 Benzo(k)fluoranthene	252	12.671	12.671	(0.962)	1910468	30.0000	31
21 Benzo(a)pyrene	252	13.082	13.082	(0.993)	1854979	30.0000	32
23 Indeno(1,2,3-cd)pyrene	276	14.769	14.769	(1.121)	2011375	30.0000	32(M)
24 Dibenzo(a,h)anthracene	278	14.798	14.798	(1.124)	1840819	30.0000	31
25 Benzo(g,h,i)perylene	276	15.209	15.209	(1.155)	1860821	30.0000	31

QC Flag Legend

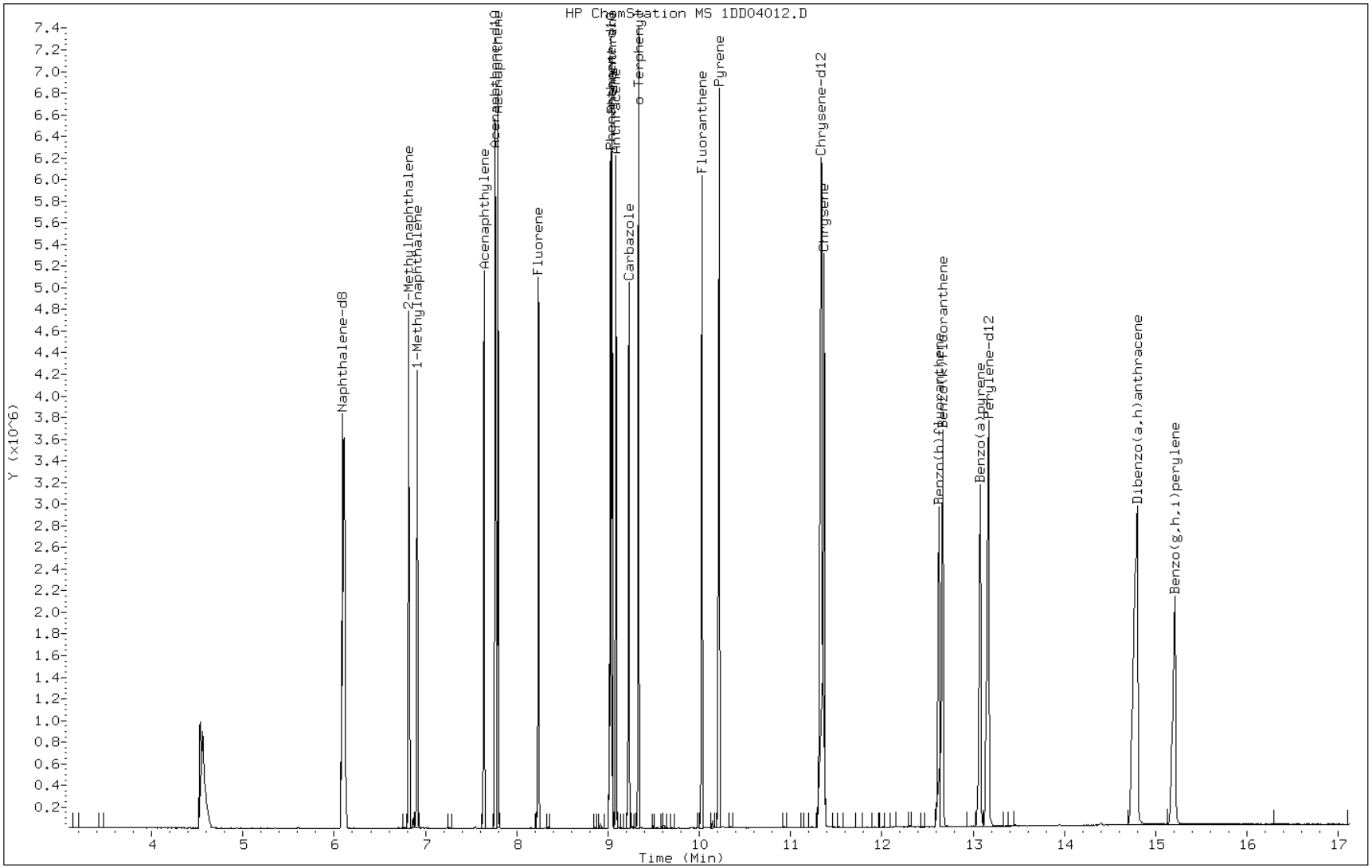
M - Compound response manually integrated.

Data File: 1DD04012.D

Date: 04-APR-2013 15:42

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531402 Operator: SCC



Manual Integration Report

Data File: 1DD04012.D
Inj. Date and Time: 04-APR-2013 15:42
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

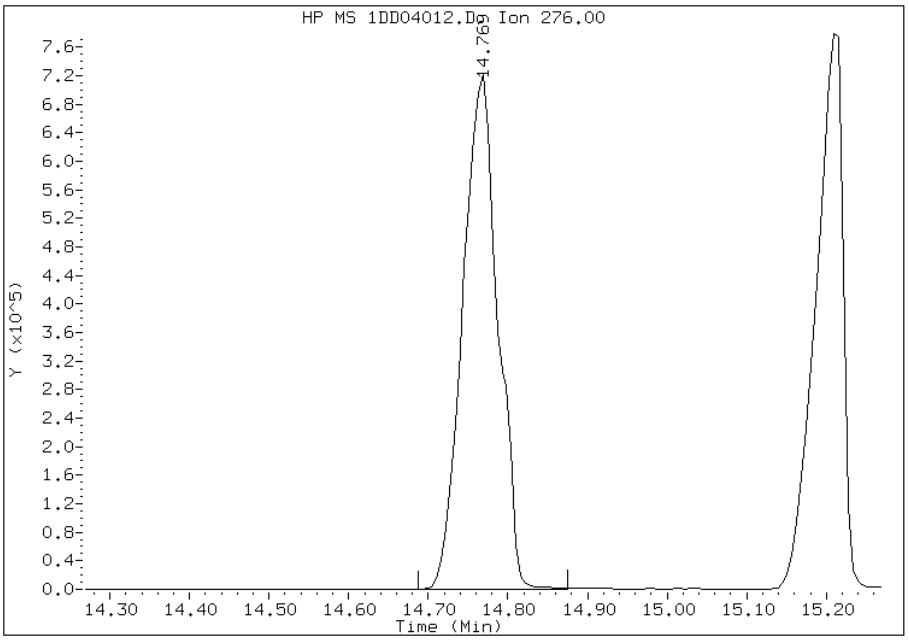
Processing Integration Results

RT: 14.77

Response: 2221522

Amount: 32

Conc: 32



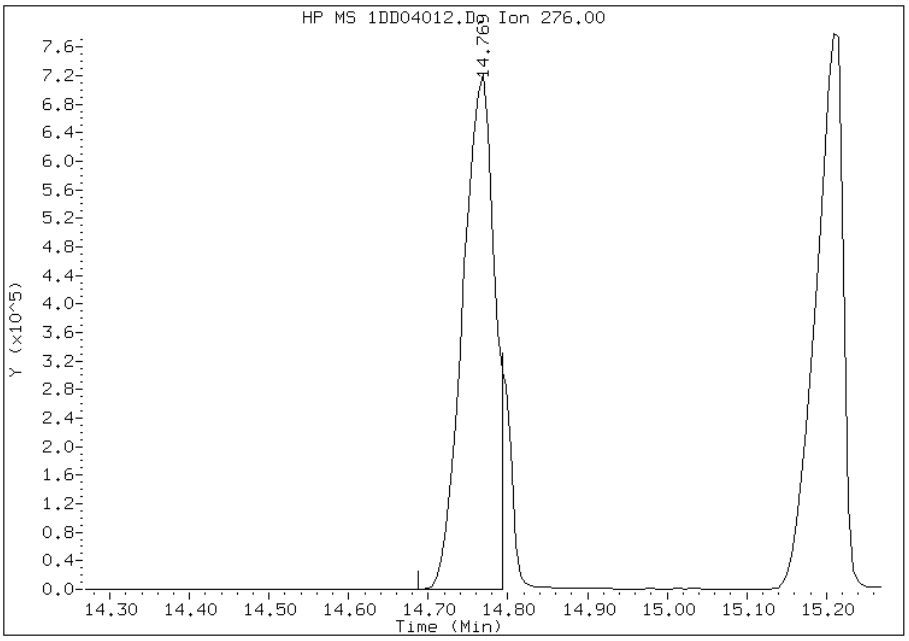
Manual Integration Results

RT: 14.77

Response: 2011375

Amount: 32

Conc: 32



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04013.D
Lab Smp Id: IC-1531403
Inj Date : 04-APR-2013 16:04
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 15:42 Cal File: 1DD04012.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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.090	6.090	(1.000)	2444753	40.0000	
* 6 Acenaphthene-d10	164	7.770	7.770	(1.000)	1439391	40.0000	
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2373597	40.0000	
$ 13 o-Terphenyl	230	9.339	9.339	(1.034)	2031596	50.0000	57(A)
* 17 Chrysene-d12	240	11.348	11.348	(1.000)	2479223	40.0000	
* 22 Perylene-d12	264	13.175	13.175	(1.000)	2461140	40.0000	
2 Naphthalene	128	6.113	6.113	(1.004)	3211548	50.0000	53(A)
3 2-Methylnaphthalene	142	6.818	6.818	(1.120)	2134320	50.0000	54(A)
4 1-Methylnaphthalene	142	6.912	6.912	(1.135)	1999874	50.0000	54(A)
5 Acenaphthylene	152	7.641	7.641	(0.983)	3396591	50.0000	56(A)
7 Acenaphthene	154	7.799	7.799	(1.004)	2018481	50.0000	54(A)
8 Fluorene	166	8.240	8.240	(1.060)	2393163	50.0000	54(A)
10 Phenanthrene	178	9.051	9.051	(1.003)	3534794	50.0000	54(A)
11 Anthracene	178	9.092	9.092	(1.007)	3590722	50.0000	55(A)
12 Carbazole	167	9.233	9.233	(1.023)	3137679	50.0000	55(A)
14 Fluoranthene	202	10.032	10.032	(1.111)	3681257	50.0000	55(A)
15 Pyrene	202	10.220	10.220	(0.901)	3965627	50.0000	53(A)
16 Benzo(a)anthracene	228	11.325	11.325	(0.998)	3388838	50.0000	50(A)
18 Chrysene	228	11.377	11.377	(1.003)	3512644	50.0000	52(A)
19 Benzo(b)fluoranthene	252	12.635	12.635	(0.959)	3290902	50.0000	54(A)
20 Benzo(k)fluoranthene	252	12.682	12.682	(0.963)	3421834	50.0000	53(A)
21 Benzo(a)pyrene	252	13.093	13.093	(0.994)	3327888	50.0000	54(A)
23 Indeno(1,2,3-cd)pyrene	276	14.785	14.785	(1.122)	3754268	50.0000	57(AM)
24 Dibenzo(a,h)anthracene	278	14.826	14.826	(1.125)	3350541	50.0000	54(A)
25 Benzo(g,h,i)perylene	276	15.238	15.238	(1.157)	3284166	50.0000	52(A)

QC Flag Legend

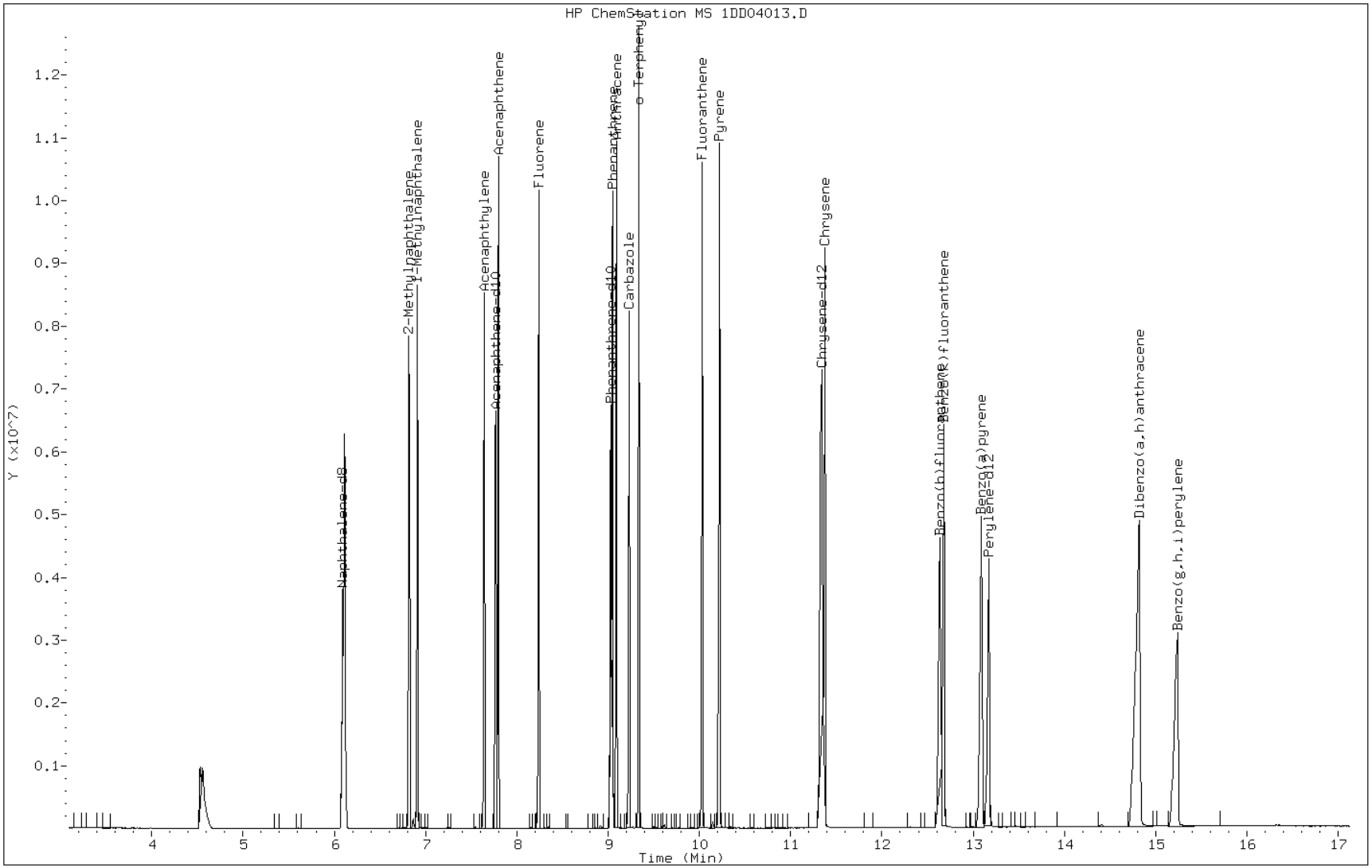
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1DD04013.D

Date: 04-APR-2013 16:04

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531403 Operator: SCC



Manual Integration Report

Data File: 1DD04013.D
Inj. Date and Time: 04-APR-2013 16:04
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

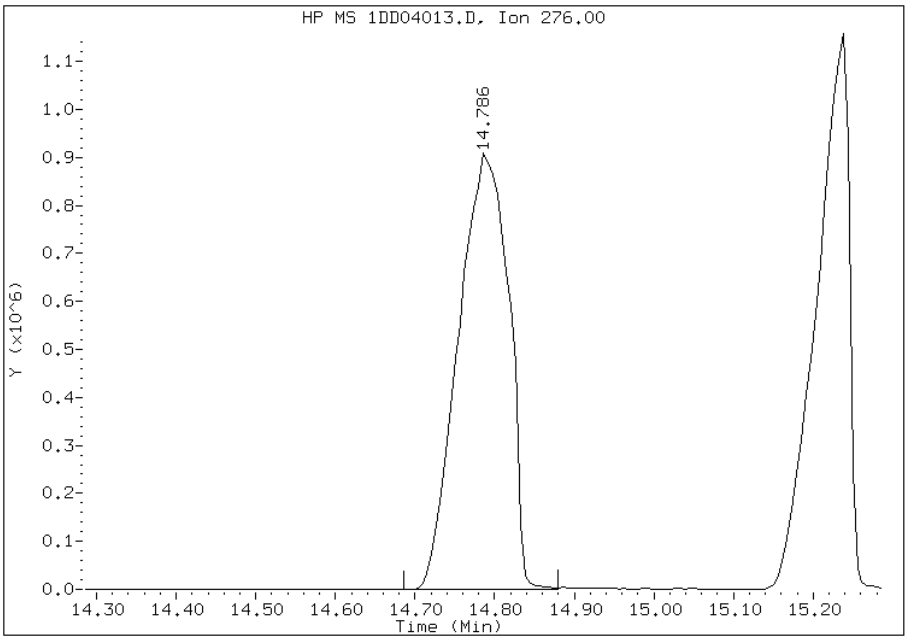
Processing Integration Results

RT: 14.79

Response: 3993028

Amount: 54

Conc: 54



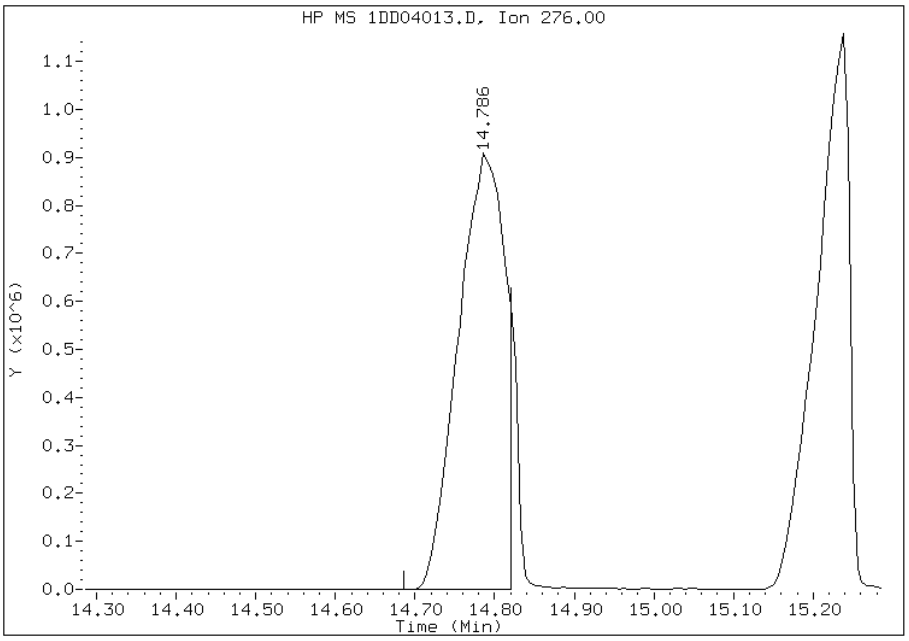
Manual Integration Results

RT: 14.79

Response: 3754268

Amount: 57

Conc: 57



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Lab Sample ID: ICV 660-136892/10 Calibration Date: 04/26/2013 11:49

Instrument ID: BSMA5973 Calib Start Date: 04/26/2013 10:03

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/26/2013 11:34

Lab File ID: 1AD26010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.000	1.013	0.0000	20300	20000	1.3	35.0
2-Methylnaphthalene	Ave	0.5733	0.5866	0.0000	20500	20000	2.3	35.0
1-Methylnaphthalene	Ave	0.6351	0.6716	0.0000	21100	20000	5.7	35.0
Acenaphthylene	Ave	2.338	2.056	0.0000	17600	20000	-12.0	35.0
Acenaphthene	Ave	1.226	1.124	0.0000	18300	20000	-8.3	35.0
Fluorene	Ave	1.475	1.361	0.0000	18500	20000	-7.7	35.0
Phenanthrene	Ave	1.159	1.010	0.0000	17400	20000	-12.8	35.0
Anthracene	Ave	1.205	1.090	0.0000	18100	20000	-9.5	35.0
Carbazole	Ave	1.162	0.9708	0.0000	16700	20000	-16.5	35.0
Fluoranthene	Ave	1.338	1.312	0.0000	19600	20000	-1.9	35.0
Pyrene	Ave	1.526	1.466	0.0000	19200	20000	-4.0	35.0
Benzo[a]anthracene	Ave	1.306	1.270	0.0000	19400	20000	-2.8	35.0
Chrysene	Ave	1.325	1.145	0.0000	17300	20000	-13.6	35.0
Benzo[b]fluoranthene	Ave	1.214	1.285	0.0000	21200	20000	5.8	35.0
Benzo[k]fluoranthene	Ave	1.396	1.175	0.0000	16800	20000	-15.8	35.0
Benzo[a]pyrene	Ave	1.208	1.102	0.0000	18200	20000	-8.8	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.141	1.134	0.0000	19900	20000	-0.6	35.0
Dibenz(a,h)anthracene	Ave	1.061	1.182	0.0000	22300	20000	11.3	35.0
Benzo[g,h,i]perylene	Ave	1.277	1.224	0.0000	19200	20000	-4.1	35.0
o-Terphenyl	Ave	0.6543	0.5935	0.0000	18100	20000	-9.3	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26010.D
Lab Smp Id: ICV-1448440
Inj Date : 26-APR-2013 11:49
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 13:03 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	2.581	2.581	(1.000)	2252499	40.0000	
* 6 Acenaphthene-d10	164	3.612	3.606	(1.000)	1126401	40.0000	
* 10 Phenanthrene-d10	188	4.563	4.563	(1.000)	2015970	40.0000	
$ 14 o-Terphenyl	230	4.863	4.862	(1.066)	598212	18.1419	18.1418
* 18 Chrysene-d12	240	6.583	6.582	(1.000)	1842442	40.0000	
* 23 Perylene-d12	264	7.667	7.666	(1.000)	2029776	40.0000	
2 Naphthalene	128	2.592	2.591	(1.004)	1140891	20.2617	20.2616
3 2-Methylnaphthalene	141	2.998	2.997	(1.161)	660618	20.4636	20.4636
4 1-Methylnaphthalene	142	3.052	3.051	(1.182)	756416	21.1488	21.1487
5 Acenaphthylene	152	3.522	3.521	(0.975)	1158011	17.5909	17.5909
7 Acenaphthene	154	3.629	3.628	(1.004)	633033	18.3366	18.3366
9 Fluorene	166	3.944	3.943	(1.092)	766644	18.4575	18.4574
11 Phenanthrene	178	4.579	4.579	(1.004)	1018538	17.4411	17.4411
12 Anthracene	178	4.611	4.611	(1.011)	1099004	18.0989	18.0989
13 Carbazole	167	4.734	4.739	(1.037)	978595	16.7058	16.7058(M)
15 Fluoranthene	202	5.439	5.439	(1.192)	1322879	19.6122	19.6122
16 Pyrene	202	5.605	5.604	(0.851)	1350229	19.2093	19.2092

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	6.572	6.566	(0.998)	1170041	19.4460	19.4459
19 Chrysene	228	6.604	6.598	(1.003)	1054888	17.2812	17.2812
20 Benzo(b)fluoranthene	252	7.389	7.389	(0.964)	1303989	21.1608	21.1608
21 Benzo(k)fluoranthene	252	7.411	7.410	(0.967)	1192511	16.8313	16.8313
22 Benzo(a)pyrene	252	7.614	7.613	(0.993)	1118521	18.2457	18.2456
24 Indeno(1,2,3-cd)pyrene	276	8.426	8.430	(1.099)	1150730	19.8802	19.8802
25 Dibenzo(a,h)anthracene	278	8.458	8.457	(1.103)	1199380	22.2696	22.2695
26 Benzo(g,h,i)perylene	276	8.650	8.654	(1.128)	1241990	19.1718	19.1717

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD26010.D

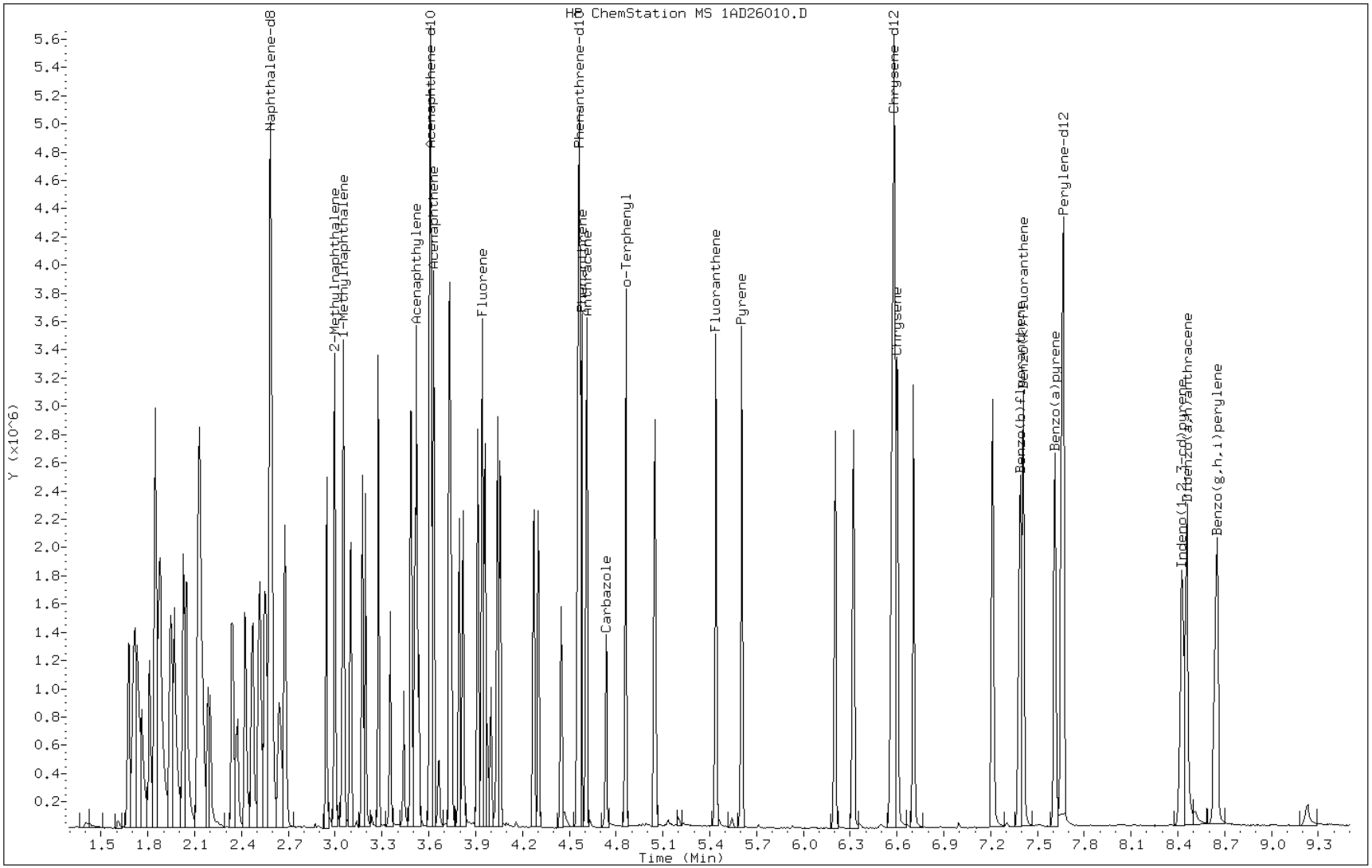
Date: 26-APR-2013 11:49

Client ID:

Instrument: BSMA5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1AD26010.D
Inj. Date and Time: 26-APR-2013 11:49
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 04/26/2013

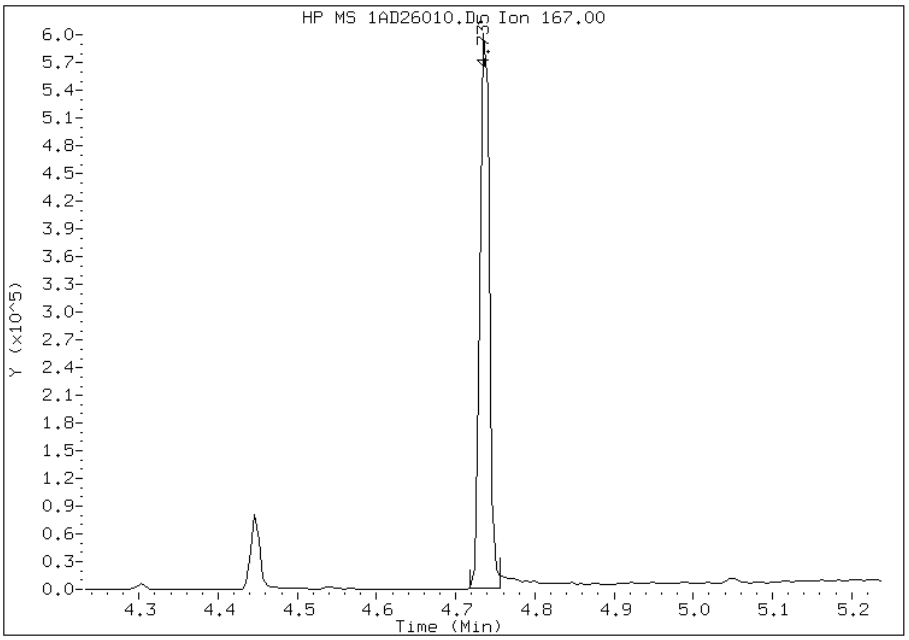
Processing Integration Results

RT: 4.73

Response: 486883

Amount: 8

Conc: 8



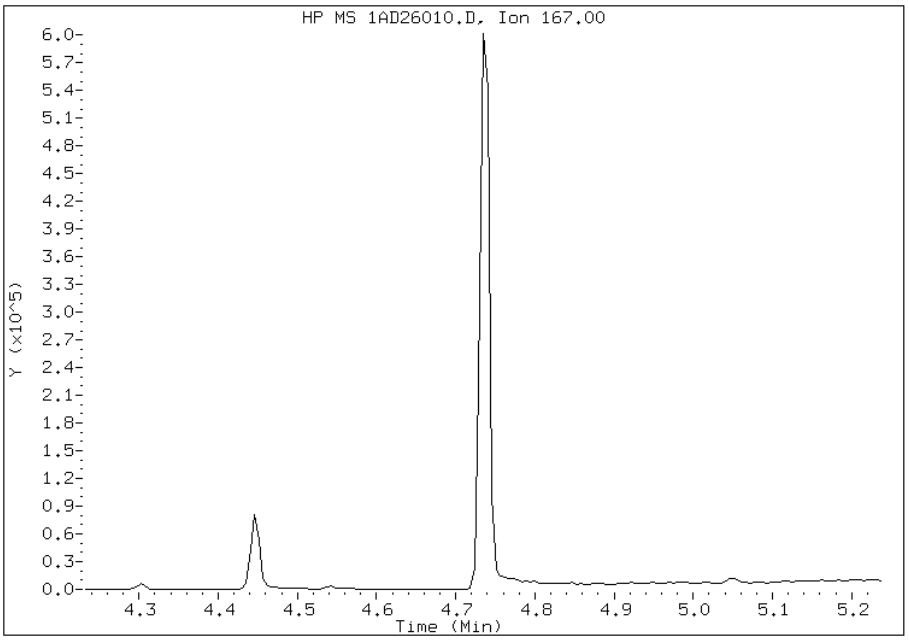
Manual Integration Results

RT: 4.73

Response: 978595

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 13:06
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Lab Sample ID: CCVIS 660-136961/3 Calibration Date: 04/29/2013 12:29

Instrument ID: BSMA5973 Calib Start Date: 04/26/2013 10:03

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/26/2013 11:34

Lab File ID: 1AD29003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.000	0.999	0.0000	20000	20000	-0.1	20.0
2-Methylnaphthalene	Ave	0.5733	0.5755	0.0000	20100	20000	0.4	20.0
1-Methylnaphthalene	Ave	0.6351	0.6428	0.0000	20200	20000	1.2	20.0
Acenaphthylene	Ave	2.338	2.176	0.0000	18600	20000	-6.9	20.0
Acenaphthene	Ave	1.226	1.122	0.0000	18300	20000	-8.5	20.0
Fluorene	Ave	1.475	1.387	0.0000	18800	20000	-6.0	20.0
Phenanthrene	Ave	1.159	1.037	0.0000	17900	20000	-10.5	20.0
Anthracene	Ave	1.205	1.115	0.0000	18500	20000	-7.5	20.0
Carbazole	Ave	1.162	1.055	0.0000	18200	20000	-9.2	20.0
Fluoranthene	Ave	1.338	1.323	0.0000	19800	20000	-1.2	20.0
Pyrene	Ave	1.526	1.483	0.0000	19400	20000	-2.8	20.0
Benzo[a]anthracene	Ave	1.306	1.265	0.0000	19400	20000	-3.2	20.0
Chrysene	Ave	1.325	1.188	0.0000	17900	20000	-10.3	20.0
Benzo[b]fluoranthene	Ave	1.214	1.255	0.0000	20700	20000	3.4	20.0
Benzo[k]fluoranthene	Ave	1.396	1.306	0.0000	18700	20000	-6.5	20.0
Benzo[a]pyrene	Ave	1.208	1.229	0.0000	20300	20000	1.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.141	1.200	0.0000	21000	20000	5.2	20.0
Dibenz(a,h)anthracene	Ave	1.061	1.060	0.0000	20000	20000	-0.0	20.0
Benzo[g,h,i]perylene	Ave	1.277	1.177	0.0000	18400	20000	-7.8	20.0
o-Terphenyl	Ave	0.6543	0.6119	0.0000	18700	20000	-6.5	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 29-APR-2013 12:29
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

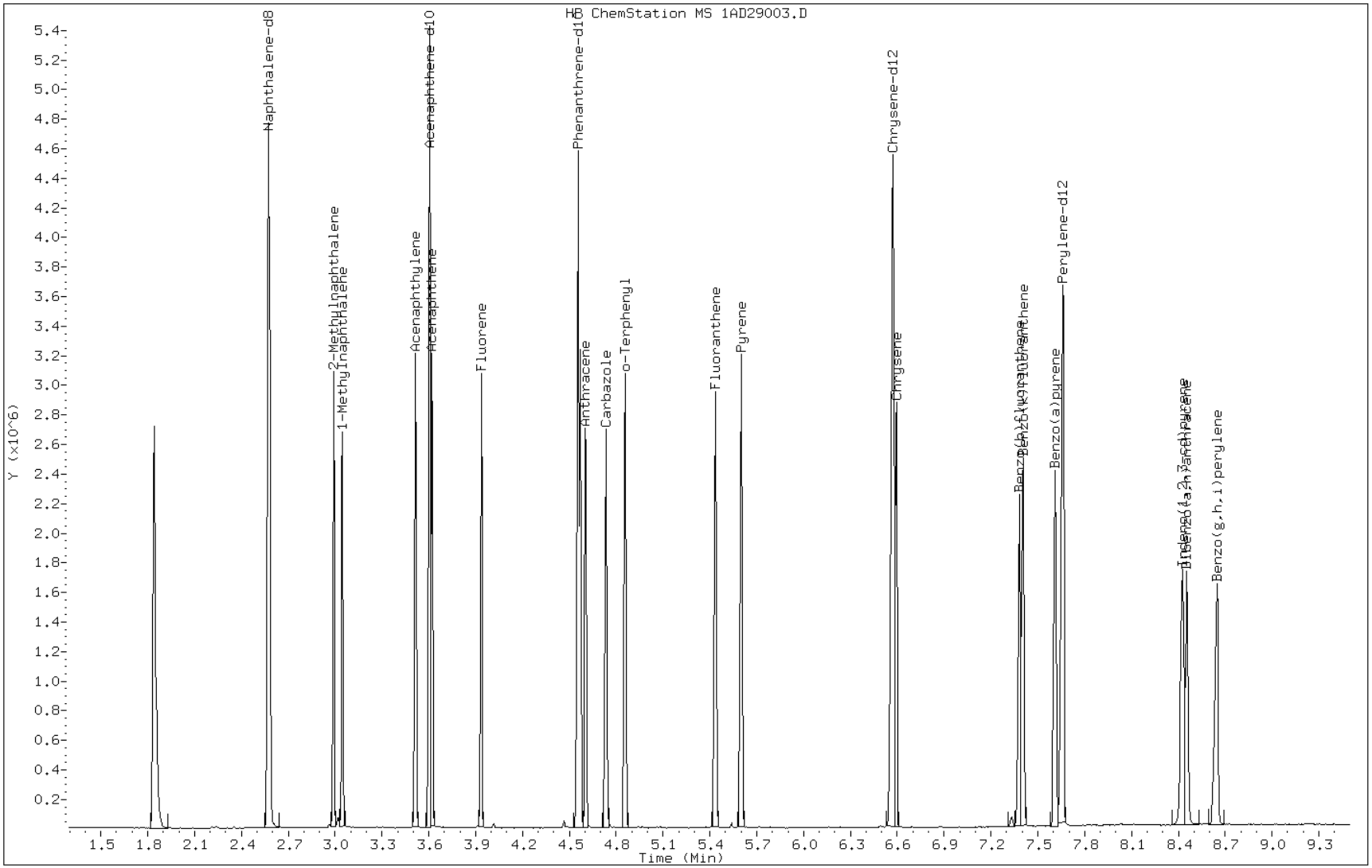
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.572	2.572	(1.000)	1768522	40.0000	
* 6 Acenaphthene-d10	164	3.603	3.603	(1.000)	946168	40.0000	
* 10 Phenanthrene-d10	188	4.554	4.554	(1.000)	1657570	40.0000	
$ 14 o-Terphenyl	230	4.859	4.859	(1.067)	507167	20.0000	18.7064
* 18 Chrysene-d12	240	6.574	6.574	(1.000)	1550259	40.0000	
* 23 Perylene-d12	264	7.663	7.663	(1.000)	1599138	40.0000	
2 Naphthalene	128	2.583	2.583	(1.004)	883295	20.0000	19.9797
3 2-Methylnaphthalene	141	2.989	2.989	(1.162)	508925	20.0000	20.0789
4 1-Methylnaphthalene	142	3.048	3.048	(1.185)	568400	20.0000	20.2410
5 Acenaphthylene	152	3.513	3.513	(0.975)	1029446	20.0000	18.6167
7 Acenaphthene	154	3.619	3.619	(1.004)	530772	20.0000	18.3031
9 Fluorene	166	3.935	3.935	(1.092)	656242	20.0000	18.8090
11 Phenanthrene	178	4.570	4.570	(1.004)	859379	20.0000	17.8975
12 Anthracene	178	4.608	4.608	(1.012)	924140	20.0000	18.5098
13 Carbazole	167	4.736	4.736	(1.040)	874765	20.0000	18.1621
15 Fluoranthene	202	5.436	5.436	(1.194)	1096296	20.0000	19.7672
16 Pyrene	202	5.601	5.601	(0.852)	1149589	20.0000	19.4372
17 Benzo(a)anthracene	228	6.563	6.563	(0.998)	980516	20.0000	19.3674
19 Chrysene	228	6.595	6.595	(1.003)	920999	20.0000	17.9315
20 Benzo(b)fluoranthene	252	7.380	7.380	(0.963)	1003545	20.0000	20.6708
21 Benzo(k)fluoranthene	252	7.407	7.407	(0.967)	1043852	20.0000	18.7006
22 Benzo(a)pyrene	252	7.610	7.610	(0.993)	982577	20.0000	20.3443
24 Indeno(1,2,3-cd)pyrene	276	8.427	8.427	(1.100)	959722	20.0000	21.0453
25 Dibenzo(a,h)anthracene	278	8.454	8.454	(1.103)	847874	20.0000	19.9824
26 Benzo(g,h,i)perylene	276	8.646	8.646	(1.128)	940762	20.0000	18.4325

Data File: 1AD29003.D

Date: 29-APR-2013 12:29

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1531401 Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Lab Sample ID: ICV 660-136164/22 Calibration Date: 04/04/2013 16:27

Instrument ID: BSMD5973 Calib Start Date: 04/04/2013 13:49

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/04/2013 16:04

Lab File ID: 1DD04014.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9009	0.0000	18100	20000	-9.4	35.0
2-Methylnaphthalene	Ave	0.6418	0.5957	0.0000	18600	20000	-7.2	35.0
1-Methylnaphthalene	Ave	0.6061	0.5697	0.0000	18800	20000	-6.0	35.0
Acenaphthylene	Ave	1.693	1.431	0.0000	16900	20000	-15.5	35.0
Acenaphthene	Ave	1.045	0.8522	0.0000	16300	20000	-18.5	35.0
Fluorene	Ave	1.238	1.099	0.0000	17800	20000	-11.2	35.0
Phenanthrene	Ave	1.102	0.8997	0.0000	16300	20000	-18.3	35.0
Anthracene	Ave	1.094	0.9197	0.0000	16800	20000	-15.9	35.0
Carbazole	Ave	0.9646	0.6860	0.0000	14200	20000	-28.9	35.0
Fluoranthene	Ave	1.134	0.9937	0.0000	17500	20000	-12.4	35.0
Pyrene	Ave	1.201	0.9577	0.0000	15900	20000	-20.3	35.0
Benzo[a]anthracene	Ave	1.156	0.9847	0.0000	17000	20000	-14.9	35.0
Chrysene	Ave	1.084	0.8727	0.0000	16100	20000	-19.5	35.0
Benzo[b]fluoranthene	Ave	0.999	0.8893	0.0000	17800	20000	-11.0	35.0
Benzo[k]fluoranthene	Ave	1.053	0.8752	0.0000	16600	20000	-16.9	35.0
Benzo[a]pyrene	Ave	1.004	0.7657	0.0000	15300	20000	-23.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	0.8560	0.0000	16000	20000	-20.0	35.0
Dibenz(a,h)anthracene	Ave	1.008	0.9464	0.0000	18800	20000	-6.1	35.0
Benzo[g,h,i]perylene	Ave	1.031	0.8761	0.0000	17000	20000	-15.0	35.0
o-Terphenyl	Ave	0.6027	0.4989	0.0000	16600	20000	-17.2	35.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04014.D
Lab Smp Id: ICV-1448440
Inj Date : 04-APR-2013 16:27
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 13:07 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Naphthalene-d8	136	6.096	6.090	(1.000)	3619899	40.0000	
* 6 Acenaphthene-d10	164	7.771	7.770	(1.000)	2333423	40.0000	
* 9 Phenanthrene-d10	188	9.028	9.028	(1.000)	3845474	40.0000	
$ 13 o-Terphenyl	230	9.334	9.339	(1.034)	959307	16.5566	16
* 17 Chrysene-d12	240	11.349	11.349	(1.000)	3963674	40.0000	
* 22 Perylene-d12	264	13.182	13.176	(1.000)	3958481	40.0000	
2 Naphthalene	128	6.114	6.114	(1.003)	1630598	18.1229	18
3 2-Methylnaphthalene	142	6.819	6.819	(1.119)	1078163	18.5630	18
4 1-Methylnaphthalene	142	6.913	6.913	(1.134)	1031118	18.7992	19
5 Acenaphthylene	152	7.642	7.641	(0.983)	1669244	16.9019	17
7 Acenaphthene	154	7.800	7.800	(1.004)	994282	16.3100	16
8 Fluorene	166	8.241	8.240	(1.060)	1281905	17.7572	18
10 Phenanthrene	178	9.046	9.051	(1.002)	1729949	16.3322	16
11 Anthracene	178	9.087	9.092	(1.007)	1768381	16.8207	17
12 Carbazole	167	9.228	9.233	(1.022)	1319041	14.2242	14(M)
14 Fluoranthene	202	10.027	10.032	(1.111)	1910613	17.5287	18
15 Pyrene	202	10.215	10.220	(0.900)	1898084	15.9464	16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
16 Benzo(a)anthracene	228	11.325	11.325	(0.998)	1951469	17.0289	17
18 Chrysene	228	11.372	11.378	(1.002)	1729613	16.0966	16
19 Benzo(b)fluoranthene	252	12.630	12.635	(0.958)	1760131	17.8000	18
20 Benzo(k)fluoranthene	252	12.671	12.682	(0.961)	1732123	16.6271	17
21 Benzo(a)pyrene	252	13.076	13.094	(0.992)	1515587	15.2542	15
23 Indeno(1,2,3-cd)pyrene	276	14.763	14.786	(1.120)	1694283	15.9925	16(M)
24 Dibenzo(a,h)anthracene	278	14.798	14.827	(1.123)	1873209	18.7764	19
25 Benzo(g,h,i)perylene	276	15.215	15.238	(1.154)	1734029	16.9990	17(H)

QC Flag Legend

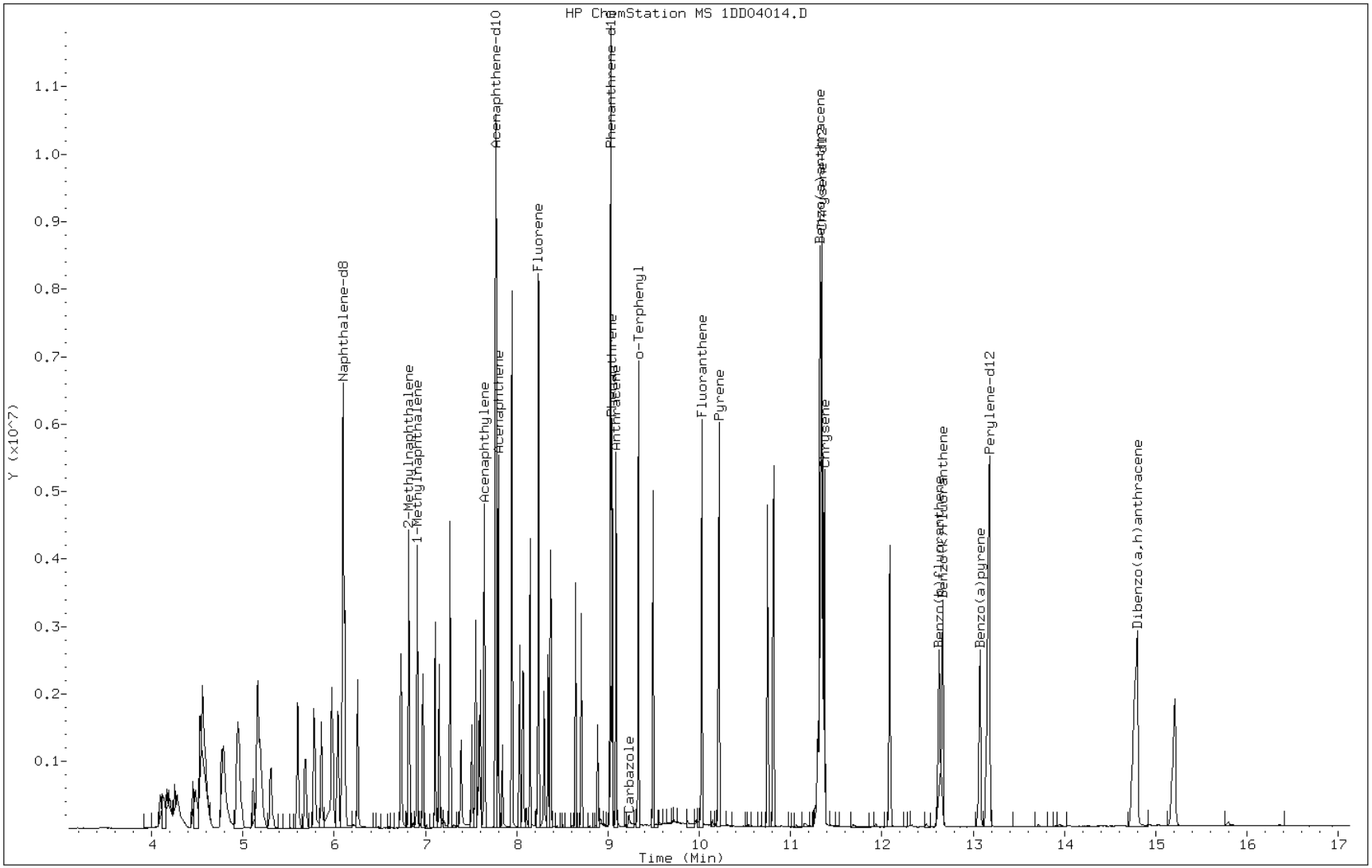
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD04014.D

Date: 04-APR-2013 16:27

Client ID: Instrument: BSMSD.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1DD04014.D
Inj. Date and Time: 04-APR-2013 16:27
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 04/05/2013

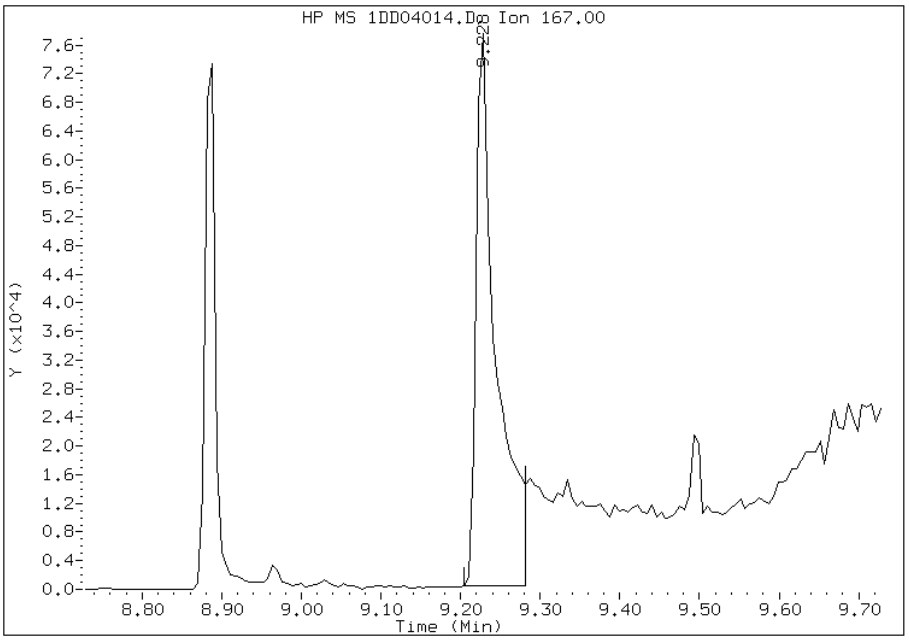
Processing Integration Results

RT: 9.23

Response: 136620

Amount: 1

Conc: 1



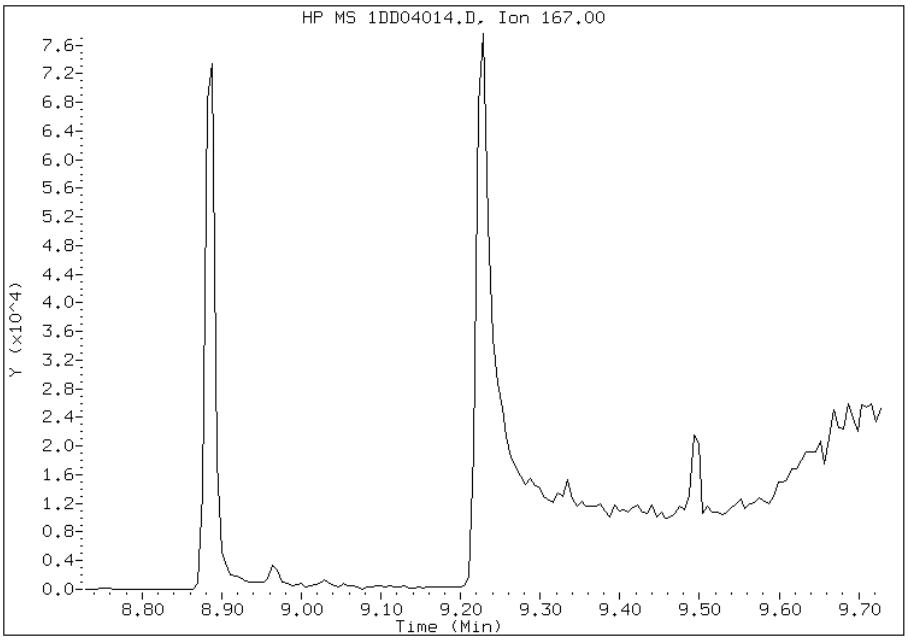
Manual Integration Results

RT: 9.23

Response: 1319041

Amount: 14

Conc: 14



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD04014.D
Inj. Date and Time: 04-APR-2013 16:27
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

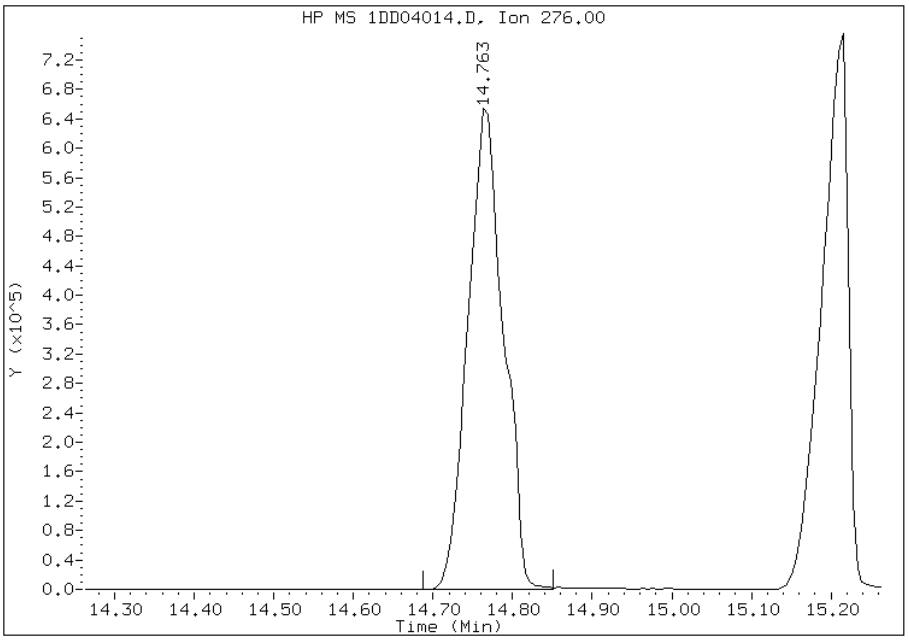
Processing Integration Results

RT: 14.76

Response: 2024721

Amount: 19

Conc: 19



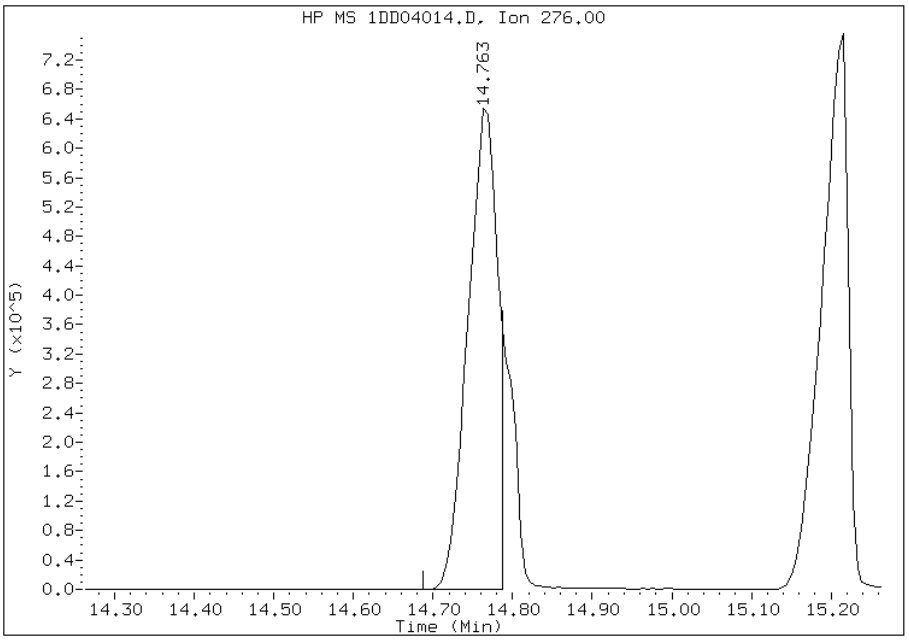
Manual Integration Results

RT: 14.76

Response: 1694283

Amount: 16

Conc: 16



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:09
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Lab Sample ID: CCVIS 660-136926/3 Calibration Date: 04/29/2013 10:53

Instrument ID: BSMD5973 Calib Start Date: 04/04/2013 13:49

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/04/2013 16:04

Lab File ID: 1DD29003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9537	0.0000	19200	20000	-4.1	20.0
2-Methylnaphthalene	Ave	0.6418	0.6387	0.0000	19900	20000	-0.5	20.0
1-Methylnaphthalene	Ave	0.6061	0.5907	0.0000	19500	20000	-2.5	20.0
Acenaphthylene	Ave	1.693	1.647	0.0000	19500	20000	-2.7	20.0
Acenaphthene	Ave	1.045	0.9783	0.0000	18700	20000	-6.4	20.0
Fluorene	Ave	1.238	1.213	0.0000	19600	20000	-2.0	20.0
Phenanthrene	Ave	1.102	1.035	0.0000	18800	20000	-6.1	20.0
Anthracene	Ave	1.094	1.040	0.0000	19000	20000	-4.9	20.0
Carbazole	Ave	0.9646	0.8637	0.0000	17900	20000	-10.5	20.0
Fluoranthene	Ave	1.134	1.153	0.0000	20300	20000	1.7	20.0
Pyrene	Ave	1.201	1.171	0.0000	19500	20000	-2.5	20.0
Benzo[a]anthracene	Ave	1.156	1.027	0.0000	17800	20000	-11.2	20.0
Chrysene	Ave	1.084	0.9945	0.0000	18300	20000	-8.3	20.0
Benzo[b]fluoranthene	Ave	0.999	1.006	0.0000	20100	20000	0.7	20.0
Benzo[k]fluoranthene	Ave	1.053	1.015	0.0000	19300	20000	-3.6	20.0
Benzo[a]pyrene	Ave	1.004	0.996	0.0000	19800	20000	-0.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	1.045	0.0000	19500	20000	-2.4	20.0
Dibenz(a,h)anthracene	Ave	1.008	0.9725	0.0000	19300	20000	-3.5	20.0
Benzo[g,h,i]perylene	Ave	1.031	0.996	0.0000	19300	20000	-3.4	20.0
o-Terphenyl	Ave	0.6027	0.6110	0.0000	20300	20000	1.4	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\1DD29003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 29-APR-2013 10:53
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\dFASTPAHi.m
Meth Date : 29-Apr-2013 11:13 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.037	6.037	(1.000)	2011680	40.0000	(H)
* 6 Acenaphthene-d10	164	7.717	7.717	(1.000)	1256984	40.0000	(H)
* 9 Phenanthrene-d10	188	8.980	8.980	(1.000)	2242084	40.0000	(H)
$ 13 o-Terphenyl	230	9.286	9.286	(1.034)	684934	20.0000	20(H)
* 17 Chrysene-d12	240	11.295	11.295	(1.000)	2345593	40.0000	(H)
* 22 Perylene-d12	264	13.117	13.117	(1.000)	2212652	40.0000	(H)
2 Naphthalene	128	6.054	6.054	(1.003)	959306	20.0000	19(H)
3 2-Methylnaphthalene	142	6.765	6.765	(1.121)	642430	20.0000	20
4 1-Methylnaphthalene	142	6.859	6.859	(1.136)	594150	20.0000	19(H)
5 Acenaphthylene	152	7.588	7.588	(0.983)	1035257	20.0000	19(H)
7 Acenaphthene	154	7.747	7.747	(1.004)	614866	20.0000	19(H)
8 Fluorene	166	8.187	8.187	(1.061)	762510	20.0000	20(H)
10 Phenanthrene	178	8.998	8.998	(1.002)	1159749	20.0000	19(H)
11 Anthracene	178	9.039	9.039	(1.007)	1166121	20.0000	19(H)
12 Carbazole	167	9.180	9.180	(1.022)	968284	20.0000	18(H)
14 Fluoranthene	202	9.985	9.985	(1.112)	1292371	20.0000	20(H)
15 Pyrene	202	10.173	10.173	(0.901)	1373519	20.0000	19(H)
16 Benzo(a)anthracene	228	11.278	11.278	(0.998)	1204789	20.0000	18(H)
18 Chrysene	228	11.319	11.319	(1.002)	1166306	20.0000	18(H)
19 Benzo(b)fluoranthene	252	12.570	12.570	(0.958)	1113028	20.0000	20(H)
20 Benzo(k)fluoranthene	252	12.611	12.611	(0.961)	1123175	20.0000	19(H)
21 Benzo(a)pyrene	252	13.023	13.023	(0.993)	1101732	20.0000	20(H)
23 Indeno(1,2,3-cd)pyrene	276	14.703	14.703	(1.121)	1155974	20.0000	20(MH)
24 Dibenzo(a,h)anthracene	278	14.732	14.732	(1.123)	1075883	20.0000	19(H)
25 Benzo(g,h,i)perylene	276	15.144	15.144	(1.155)	1101775	20.0000	19(H)

QC Flag Legend

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

Data File: 1DD29003.D

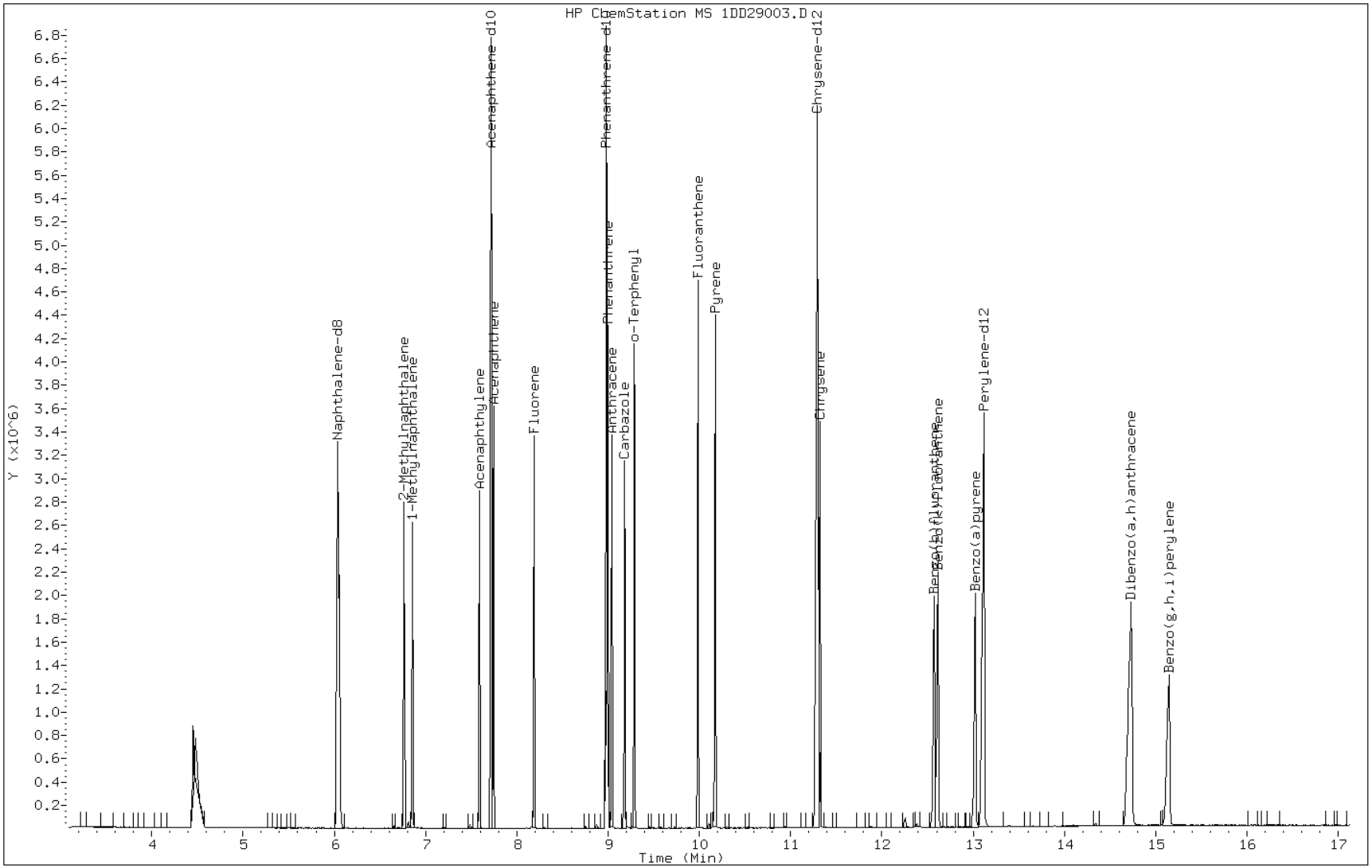
Date: 29-APR-2013 10:53

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1531401

Operator: SCC



Manual Integration Report

Data File: 1DD29003.D
Inj. Date and Time: 29-APR-2013 10:53
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/29/2013

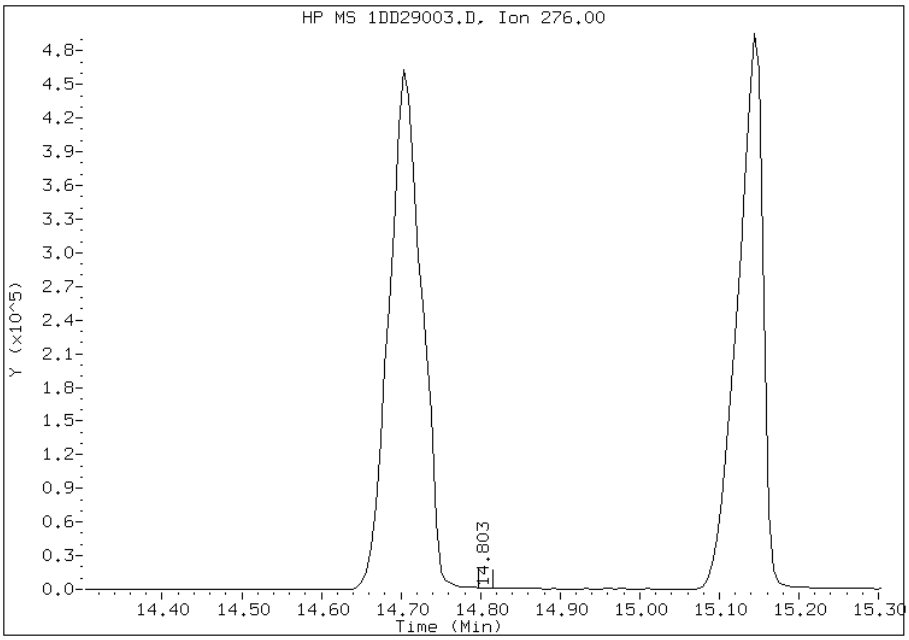
Processing Integration Results

RT: 14.80

Response: 917

Amount: 0

Conc: 0



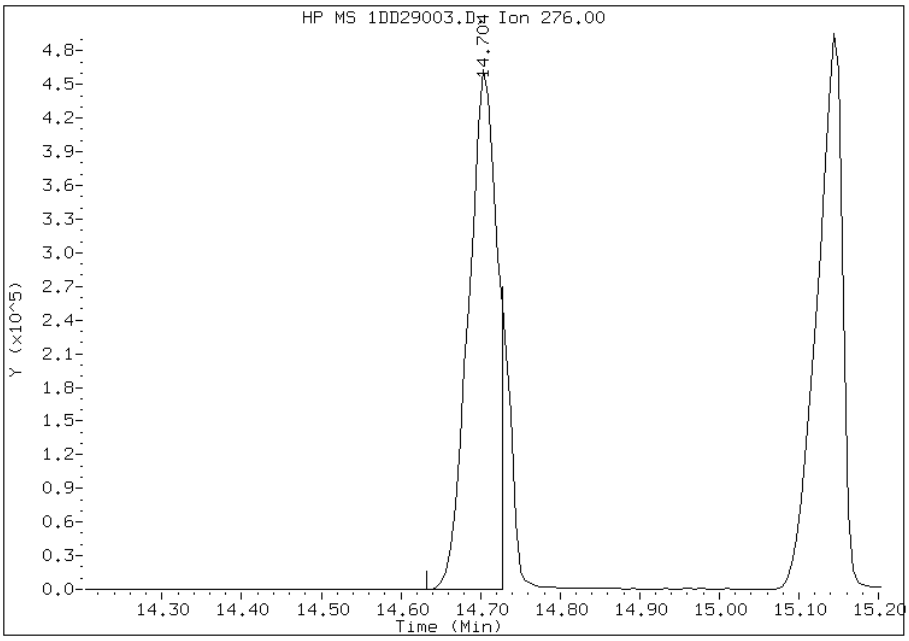
Manual Integration Results

RT: 14.70

Response: 1155974

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 29-Apr-2013 11:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 26-APR-2013 09:50
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

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		
4.935	4.963	-0.028	198	121536			50.00- 0.00	100.00
4.935	4.963	-0.028	51	38720			10.00- 80.00	31.86
4.935	4.963	-0.028	68	0	0.0	0.0	0.00- 2.00	0.00
4.935	4.963	-0.028	69	36384			0.00- 0.00	29.94
4.935	4.963	-0.028	70	323			0.00- 2.00	0.89
4.935	4.963	-0.028	127	46488			10.00- 80.00	38.25
4.935	4.963	-0.028	197	0	0.0	0.0	0.00- 2.00	0.00
4.935	4.963	-0.028	442	102376			50.00- 0.00	84.24
4.935	4.963	-0.028	199	6667			5.00- 9.00	5.49
4.935	4.963	-0.028	275	30992			10.00- 60.00	25.50
4.935	4.963	-0.028	365	3993			1.00- 0.00	3.29
4.935	4.963	-0.028	441	14043			0.01- 99.99	74.57
4.935	4.963	-0.028	443	18832			15.00- 24.00	18.39

Data File: 1AD26002.D

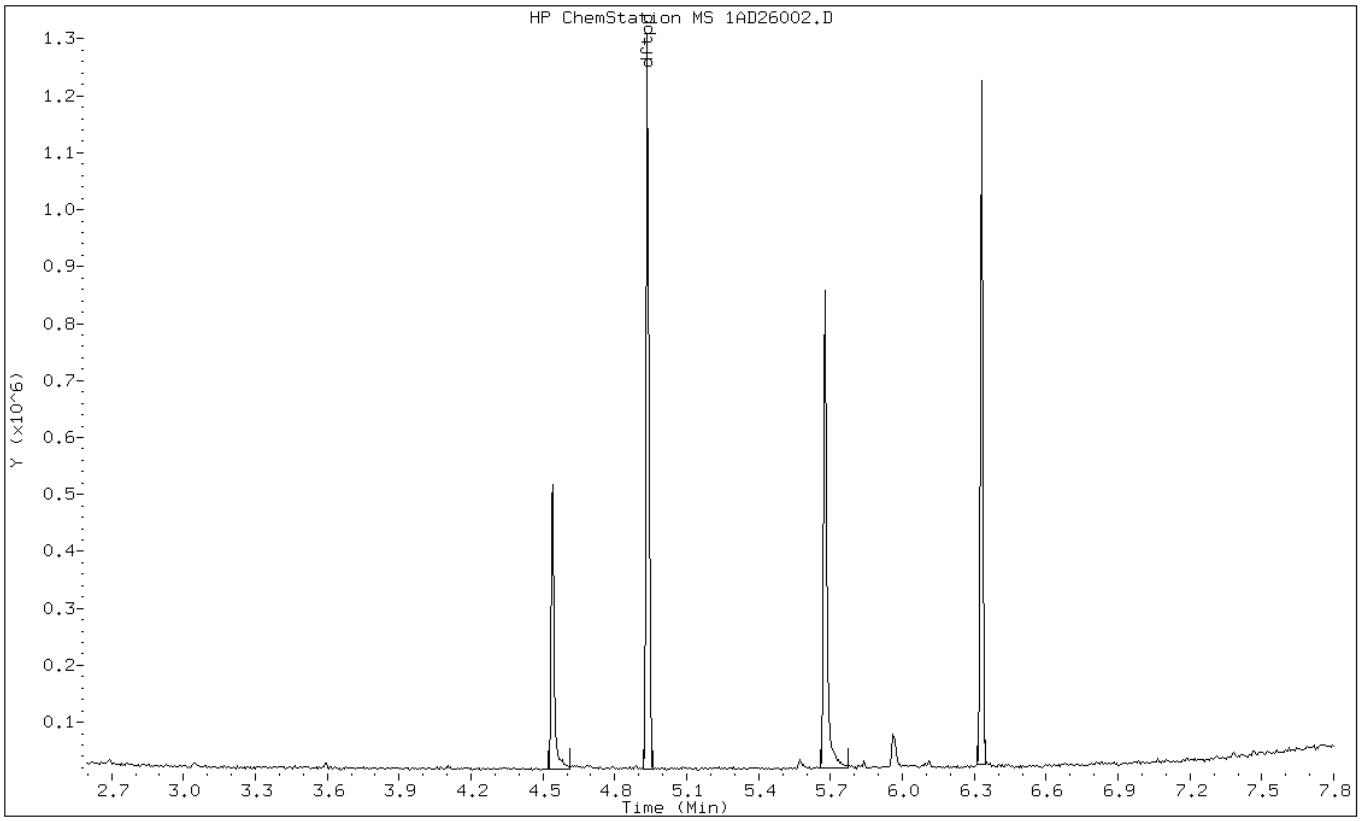
Date: 26-APR-2013 09:50

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



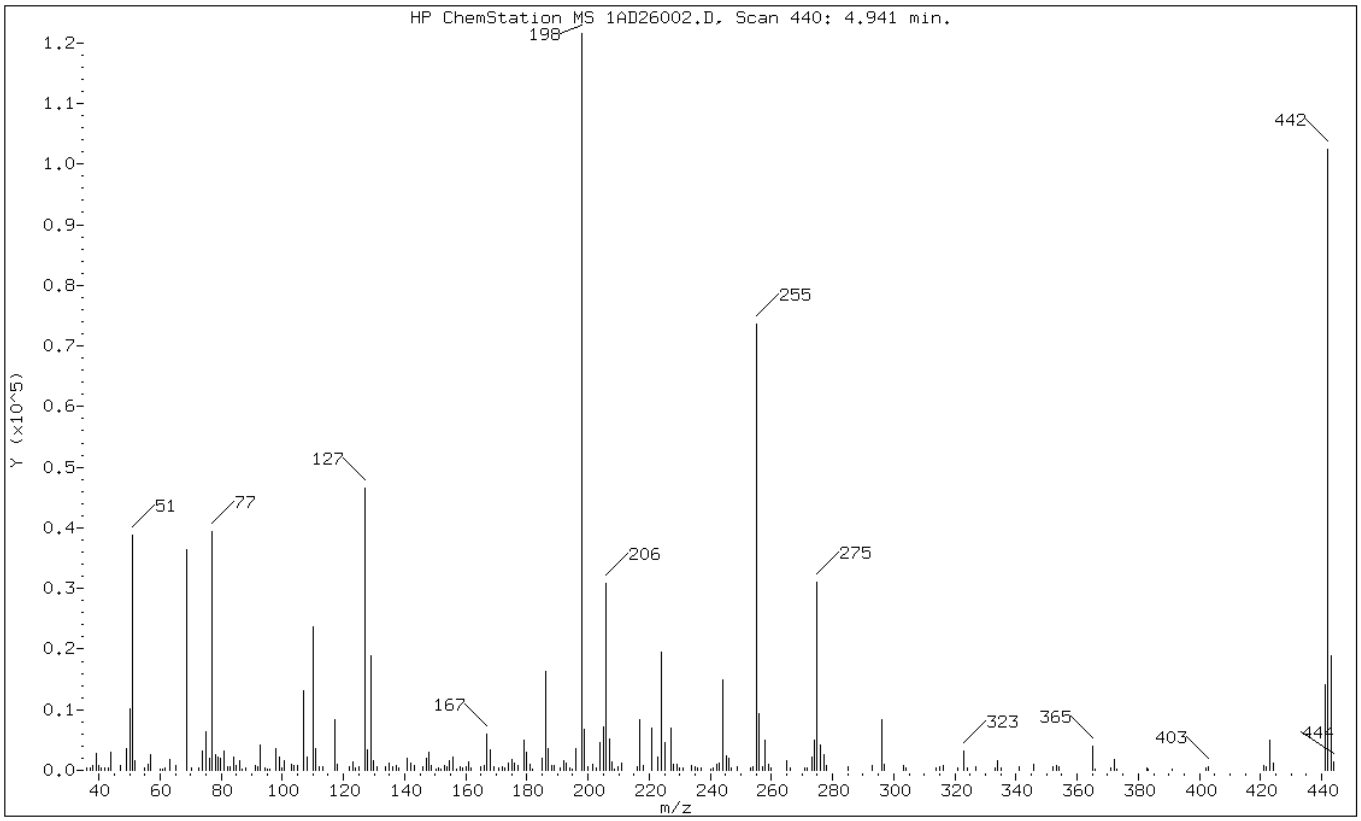
Data File: 1AD26002.D

Date: 26-APR-2013 09:50

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.86
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	29.94
70	Less than 2.00% of mass 69	0.27 (0.89)
127	10.00 - 80.00% of mass 198	38.25
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	84.24
199	5.00 - 9.00% of mass 198	5.49
275	10.00 - 60.00% of mass 198	25.50
365	Greater than 1.00% of mass 198	3.29
441	Present, but less than mass 443	11.55
443	15.00 - 24.00% of mass 442	15.49 (18.39)

Data File: 1AD26002.D

Date: 26-APR-2013 09:50

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613_IC.b\1AD26002.D
Spectrum: HP ChemStation MS 1AD26002.D, Scan 440: 4.941 min.
Location of Maximum: 197.90
Number of points: 218

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	318	109.90	23624	181.90	258	257.90	4917
37.10	304	110.90	3528	185.00	1943	258.90	978
38.00	772	112.00	696	186.00	16384	259.90	303
39.00	2851	113.10	557	187.00	3659	265.00	1578
40.10	716	117.00	8329	188.00	719	266.20	302
40.90	450	117.90	908	188.90	826	270.90	415
42.00	367	122.00	606	190.80	404	271.70	437
43.00	323	123.00	1311	192.00	1546	273.10	2160
44.00	3058	124.00	371	192.90	1214	274.00	5041
46.90	754	125.00	512	194.00	396	275.00	30992
49.00	3565	127.00	46488	194.80	255	275.90	4232
50.00	10138	128.00	3368	195.90	3544	277.00	2575
51.00	38720	128.90	18888	197.90	121536	278.00	834
51.90	1557	129.80	1654	198.90	6667	285.00	690
55.00	474	131.00	544	199.90	619	293.00	822
56.00	1032	133.90	503	201.70	1011	296.00	8395
57.00	2554	135.00	1277	202.90	396	297.00	904
60.00	257	136.00	571	204.00	4575	303.20	722
60.90	289	137.10	702	205.00	7152	303.90	319
61.80	317	138.00	427	206.00	30816	314.00	477
63.10	1724	141.00	2035	207.00	5196	314.90	676
65.00	759	142.00	1118	207.90	1339	316.10	769
68.90	36384	143.00	713	208.70	266	320.80	382
70.10	323	146.10	541	209.90	683	323.00	3132
72.80	315	147.00	1966	211.10	1168	324.00	468
74.00	3176	148.00	2955	216.00	640	327.00	657
75.00	6302	148.90	888	216.90	8402	333.00	481
76.10	1935	150.10	289	217.90	765	334.10	1644
77.00	39448	151.00	322	220.90	7020	335.00	459
78.00	2640	151.90	273	223.00	2251	340.90	509
79.00	2237	152.90	869	224.00	19528	345.90	899
79.90	2049	153.90	672	225.00	4617	351.90	634
80.90	3195	154.80	1546	227.00	6882	352.20	548
82.00	676	156.00	2256	227.90	931	353.10	702
82.90	597	156.90	256	229.00	1037	353.90	642
83.90	2102	158.10	527	229.90	339	365.00	3993
84.90	795	159.00	341	231.10	439	365.90	292
86.10	1590	160.00	680	234.00	698	371.00	314
86.80	277	161.00	1485	235.00	536	372.10	1782
87.90	476	161.90	375	236.00	404	372.80	257

91.10	819	164.80	641	237.10	489	382.80	327
92.10	653	166.00	856	240.00	276	383.30	252
92.90	4252	167.00	5928	241.00	479	391.00	277
94.20	435	168.00	3455	242.00	967	402.10	404
95.00	281	169.10	686	243.00	1175	403.00	649
95.90	273	170.90	352	244.00	14953	421.10	713
98.00	3544	172.00	525	245.10	2429	421.80	629
99.00	2270	172.80	444	246.00	1998	422.90	5030
99.80	420	173.90	1209	246.80	476	424.00	1147
100.80	1642	175.10	1874	248.90	576	441.00	14043
103.00	1034	176.00	1175	253.00	400	442.00	102376
103.90	828	177.00	876	253.90	504	443.00	18832
105.00	864	179.00	4909	255.00	73608	443.90	1450
107.00	13154	179.90	2911	256.00	9434		
108.00	2102	180.90	1012	257.00	624		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 29-APR-2013 12:12
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

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		
4.929	4.963	-0.034	198	112096			50.00- 0.00	100.00
4.929	4.963	-0.034	51	45884			10.00- 80.00	40.93
4.929	4.963	-0.034	68	697			0.00- 2.00	1.69
4.929	4.963	-0.034	69	41284			0.00- 0.00	36.83
4.929	4.963	-0.034	70	550			0.00- 2.00	1.33
4.929	4.963	-0.034	127	51604			10.00- 80.00	46.04
4.929	4.963	-0.034	197	0	0.0	0.0	0.00- 2.00	0.00
4.929	4.963	-0.034	442	64612			50.00- 0.00	57.64
4.929	4.963	-0.034	199	7764			5.00- 9.00	6.93
4.929	4.963	-0.034	275	25844			10.00- 60.00	23.06
4.929	4.963	-0.034	365	2991			1.00- 0.00	2.67
4.929	4.963	-0.034	441	10114			0.01- 99.99	81.33
4.929	4.963	-0.034	443	12435			15.00- 24.00	19.25

Data File: 1AD29002.D

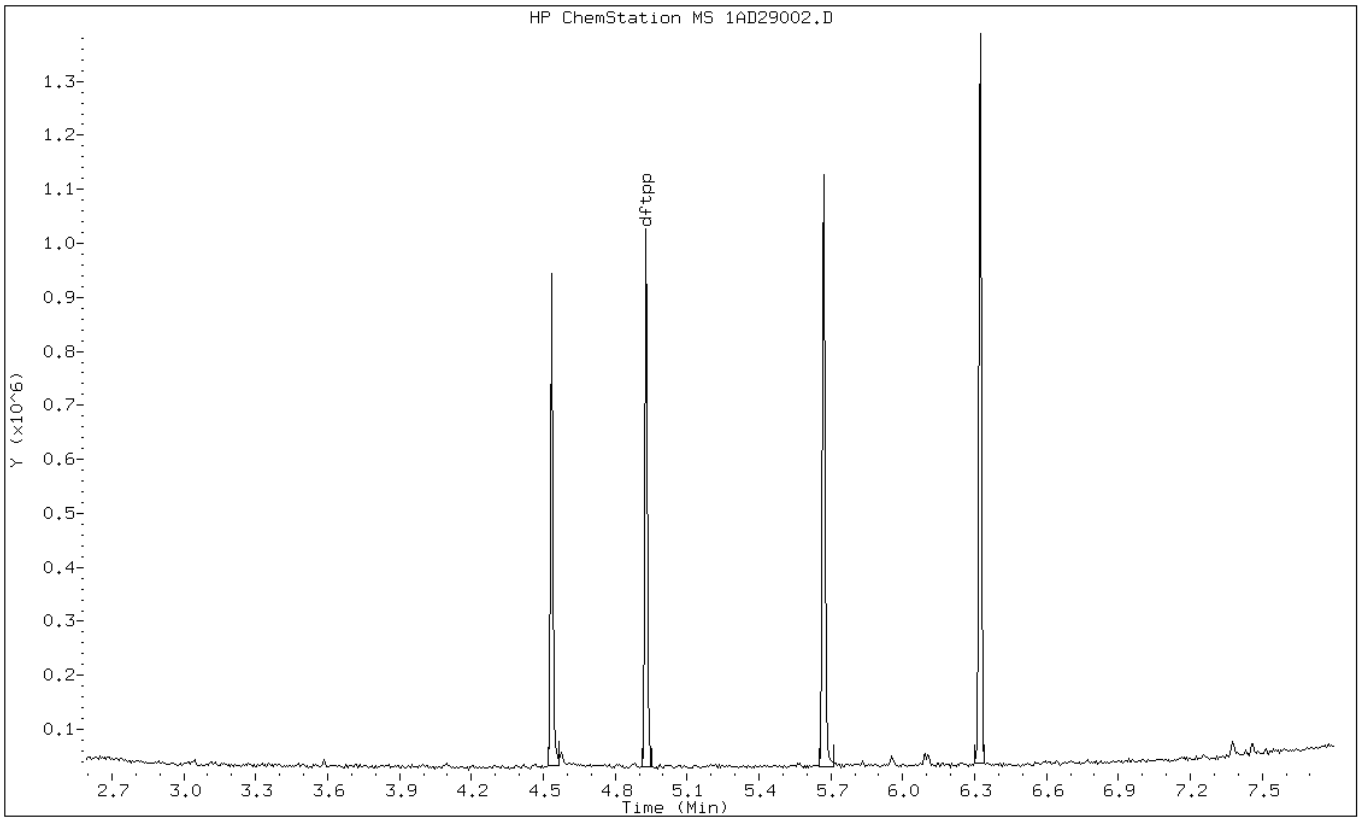
Date: 29-APR-2013 12:12

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



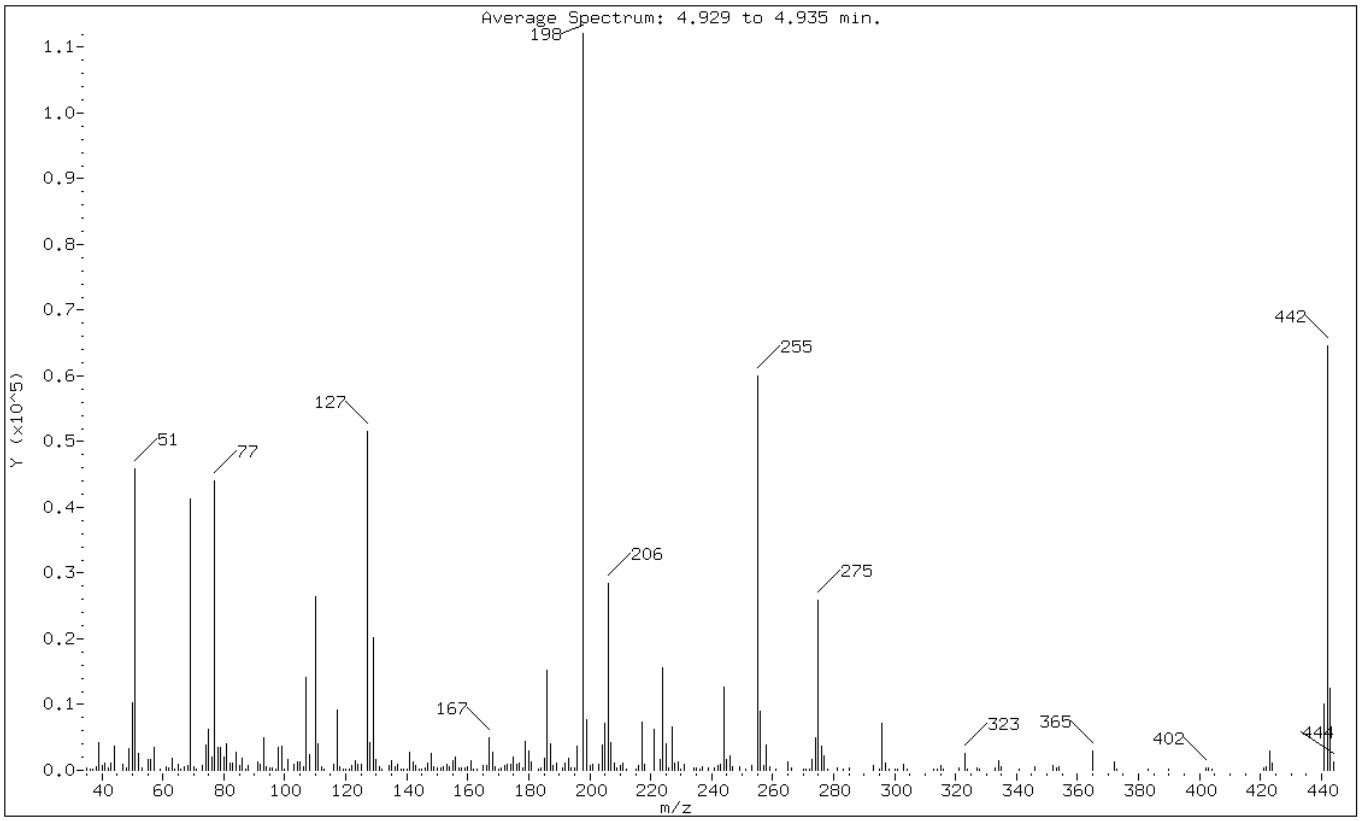
Data File: 1AD29002.D

Date: 29-APR-2013 12:12

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	40.93
68	Less than 2.00% of mass 69	0.62 (1.69)
69	Mass 69 relative abundance	36.83
70	Less than 2.00% of mass 69	0.49 (1.33)
127	10.00 - 80.00% of mass 198	46.04
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	57.64
199	5.00 - 9.00% of mass 198	6.93
275	10.00 - 60.00% of mass 198	23.06
365	Greater than 1.00% of mass 198	2.67
441	Present, but less than mass 443	9.02
443	15.00 - 24.00% of mass 442	11.09 (19.25)

Data File: 1AD29002.D

Date: 29-APR-2013 12:12

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29002.D
Spectrum: Average Spectrum: 4.929 to 4.935 min.
Location of Maximum: 198.00
Number of points: 250

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	354	107.00	14189	176.00	890	256.00	9038
36.00	142	108.00	2389	177.00	1082	257.00	722
37.00	175	110.00	26344	178.00	448	258.00	3893
38.00	492	111.00	3957	179.00	4450	259.00	581
39.00	4307	112.00	522	180.00	2952	261.00	177
40.00	658	113.00	149	181.00	1249	265.00	1277
41.00	1166	116.00	874	183.00	171	266.00	441
42.00	436	117.00	9173	184.00	391	270.00	150
43.00	1145	118.00	638	185.00	1747	271.00	140
44.00	3616	119.00	162	186.00	15241	272.00	165
47.00	835	120.00	194	187.00	3979	273.00	1576
48.00	306	121.00	134	188.00	696	274.00	4912
49.00	3355	122.00	737	189.00	1121	275.00	25840
50.00	10277	123.00	1391	191.00	394	276.00	3747
51.00	45880	124.00	925	192.00	1073	277.00	2166
52.00	2552	125.00	876	193.00	1856	278.00	210
53.00	309	127.00	51600	194.00	357	281.00	296
55.00	1586	128.00	4130	195.00	292	283.00	147
56.00	1727	129.00	20120	196.00	3703	285.00	318
57.00	3397	130.00	1696	198.00	112096	293.00	719
59.00	137	131.00	489	199.00	7764	295.00	145
61.00	514	132.00	205	200.00	759	296.00	7158
62.00	450	134.00	800	201.00	861	297.00	1092
63.00	1878	135.00	1438	203.00	935	298.00	139
64.00	208	136.00	526	204.00	3843	300.00	188
65.00	922	137.00	837	205.00	7071	301.00	138
66.00	147	138.00	197	206.00	28512	303.00	981
67.00	485	139.00	154	207.00	4269	304.00	213
68.00	697	140.00	151	208.00	1030	313.00	143
69.00	41280	141.00	2744	209.00	393	314.00	176
70.00	550	142.00	1216	210.00	680	315.00	770
71.00	143	143.00	664	211.00	1070	316.00	142
73.00	788	144.00	261	212.00	131	321.00	299
74.00	3818	145.00	127	215.00	245	323.00	2497
75.00	6319	146.00	438	216.00	659	324.00	205
76.00	2070	147.00	1164	217.00	7422	327.00	387
77.00	44112	148.00	2636	218.00	890	328.00	169
78.00	3428	149.00	630	221.00	6246	333.00	295
79.00	3517	150.00	320	223.00	1730	334.00	1535
80.00	2087	151.00	421	224.00	15531	335.00	483

81.00	4006	152.00	506	225.00	4087	341.00	129
82.00	1058	153.00	986	226.00	388	346.00	566
83.00	1056	154.00	548	227.00	6531	352.00	680
84.00	2750	155.00	1466	228.00	1079	353.00	443
85.00	796	156.00	2087	229.00	1209	354.00	611
86.00	1918	157.00	447	230.00	138	365.00	2991
87.00	266	158.00	434	231.00	850	372.00	1203
88.00	652	159.00	458	234.00	447	373.00	198
91.00	1251	160.00	626	235.00	410	383.00	230
92.00	957	161.00	1449	236.00	230	390.00	125
93.00	4927	162.00	182	237.00	567	402.00	362
94.00	490	163.00	207	239.00	326	403.00	286
95.00	284	165.00	801	241.00	439	404.00	136
96.00	429	166.00	662	242.00	663	421.00	320
97.00	196	167.00	4901	243.00	905	422.00	554
98.00	3431	168.00	2797	244.00	12696	423.00	2986
99.00	3675	169.00	637	245.00	1599	424.00	1020
100.00	191	170.00	267	246.00	2253	441.00	10114
101.00	1720	171.00	321	247.00	492	442.00	64608
103.00	965	172.00	653	249.00	468	443.00	12435
104.00	1235	173.00	844	251.00	219	444.00	1276
105.00	1263	174.00	991	253.00	681		
106.00	510	175.00	2037	255.00	59968		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04003.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 04-APR-2013 12:15
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.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

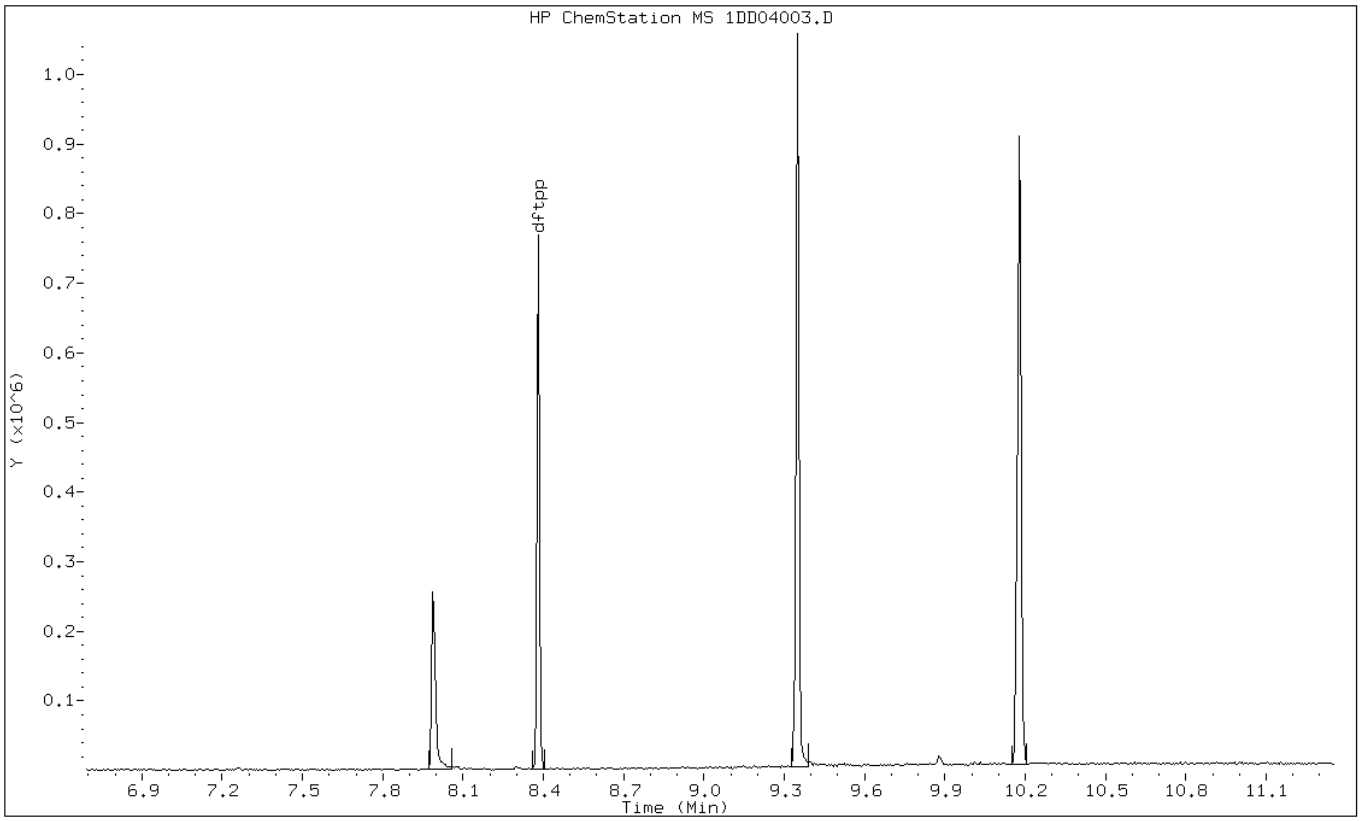
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.382	8.532	-0.150	198	72572			50.00- 0.00	100.00
8.382	8.532	-0.150	51	32556			10.00- 80.00	44.86
8.382	8.532	-0.150	68	0	0.0	0.0	0.00- 2.00	0.00
8.382	8.532	-0.150	69	32936			0.00- 0.00	45.38
8.382	8.532	-0.150	70	114			0.00- 2.00	0.35
8.382	8.532	-0.150	127	36680			10.00- 80.00	50.54
8.382	8.532	-0.150	197	0	0.0	0.0	0.00- 2.00	0.00
8.382	8.532	-0.150	442	48716			50.00- 0.00	67.13
8.382	8.532	-0.150	199	4977			5.00- 9.00	6.86
8.382	8.532	-0.150	275	19350			10.00- 60.00	26.66
8.382	8.532	-0.150	365	2279			1.00- 0.00	3.14
8.382	8.532	-0.150	441	2370			0.01- 99.99	23.58
8.382	8.532	-0.150	443	10052			15.00- 24.00	20.63

Data File: 1DD04003.D

Date: 04-APR-2013 12:15

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1525850 | Operator: SCC



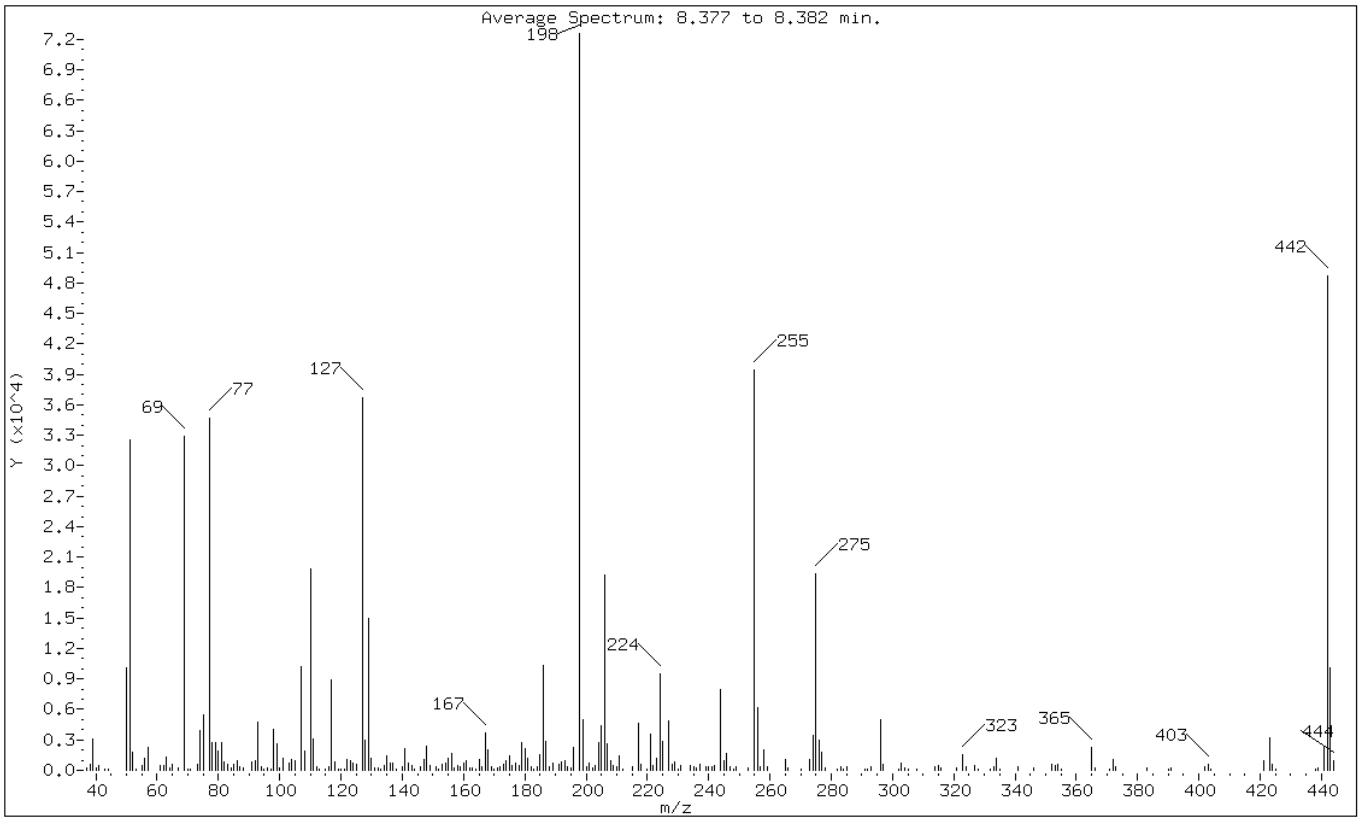
Data File: 1DD04003.D

Date: 04-APR-2013 12:15

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1525850 | Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	44.86
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	45.38
70	Less than 2.00% of mass 69	0.16 (0.35)
127	10.00 - 80.00% of mass 198	50.54
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	67.13
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 60.00% of mass 198	26.66
365	Greater than 1.00% of mass 198	3.14
441	Present, but less than mass 443	3.27
443	15.00 - 24.00% of mass 442	13.85 (20.63)

Data File: 1DD04003.D

Date: 04-APR-2013 12:15

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04003.D
Spectrum: Average Spectrum: 8.377 to 8.382 min.
Location of Maximum: 198.00
Number of points: 246

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	274	119.00	120	185.00	1517	270.00	78
38.00	589	120.00	118	186.00	10284	273.00	1081
39.00	3038	121.00	77	187.00	2888	274.00	3485
40.00	277	122.00	1015	188.00	332	275.00	19344
41.00	463	123.00	946	189.00	735	276.00	2999
43.00	124	124.00	666	191.00	579	277.00	1839
44.00	117	125.00	567	192.00	873	278.00	226
50.00	10128	127.00	36680	193.00	975	282.00	81
51.00	32552	128.00	2957	194.00	335	283.00	314
52.00	1767	129.00	14951	195.00	275	284.00	90
53.00	85	130.00	1205	196.00	2233	285.00	356
55.00	420	131.00	194	198.00	72568	291.00	83
56.00	1176	132.00	206	199.00	4977	292.00	80
57.00	2213	133.00	92	200.00	323	293.00	412
61.00	490	134.00	523	201.00	663	296.00	5046
62.00	459	135.00	1404	202.00	210	297.00	576
63.00	1290	136.00	674	203.00	519	302.00	157
64.00	230	137.00	709	204.00	2685	303.00	675
65.00	539	138.00	79	205.00	4398	304.00	185
67.00	251	140.00	333	206.00	19200	305.00	82
69.00	32936	141.00	2082	207.00	2631	308.00	174
70.00	114	142.00	713	208.00	974	314.00	314
71.00	81	143.00	523	209.00	499	315.00	487
73.00	647	144.00	93	210.00	329	316.00	223
74.00	3962	146.00	312	211.00	1393	321.00	206
75.00	5478	147.00	1032	212.00	165	323.00	1494
77.00	34688	148.00	2326	215.00	308	324.00	410
78.00	2711	149.00	488	217.00	4596	327.00	476
79.00	2695	151.00	320	218.00	606	328.00	99
80.00	1923	152.00	103	220.00	76	332.00	111
81.00	2677	153.00	558	221.00	3596	333.00	396
82.00	777	154.00	665	222.00	431	334.00	1163
83.00	630	155.00	1227	223.00	1208	335.00	119
84.00	185	156.00	1628	224.00	9447	341.00	297
85.00	566	157.00	240	225.00	2804	346.00	197
86.00	895	158.00	430	227.00	4861	352.00	557
87.00	384	159.00	320	228.00	637	353.00	477
88.00	184	160.00	765	229.00	843	354.00	558
91.00	856	161.00	1005	230.00	115	355.00	81
92.00	893	162.00	279	231.00	446	365.00	2279

93.00	4736	163.00	190	234.00	485	366.00	181
94.00	298	164.00	105	235.00	402	371.00	117
95.00	167	165.00	1019	236.00	243	372.00	1076
96.00	240	166.00	344	237.00	537	373.00	335
97.00	178	167.00	3671	239.00	320	383.00	219
98.00	4066	168.00	1997	240.00	333	390.00	136
99.00	2655	169.00	349	241.00	361	391.00	180
100.00	295	170.00	112	242.00	472	402.00	362
101.00	1142	171.00	208	244.00	7939	403.00	564
103.00	719	172.00	342	245.00	988	404.00	144
104.00	1122	173.00	643	246.00	1619	421.00	961
105.00	909	174.00	893	247.00	381	423.00	3222
107.00	10195	175.00	1368	248.00	80	424.00	628
108.00	1940	176.00	519	249.00	382	425.00	87
110.00	19784	177.00	713	253.00	265	438.00	129
111.00	3136	178.00	422	255.00	39432	439.00	214
112.00	374	179.00	2728	256.00	6151	441.00	2370
113.00	128	180.00	2151	257.00	340	442.00	48712
115.00	153	181.00	1200	258.00	2068	443.00	10052
116.00	393	182.00	314	259.00	399	444.00	994
117.00	8897	183.00	98	265.00	1086		
118.00	800	184.00	382	266.00	282		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\1DD29002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 29-APR-2013 10:35
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.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

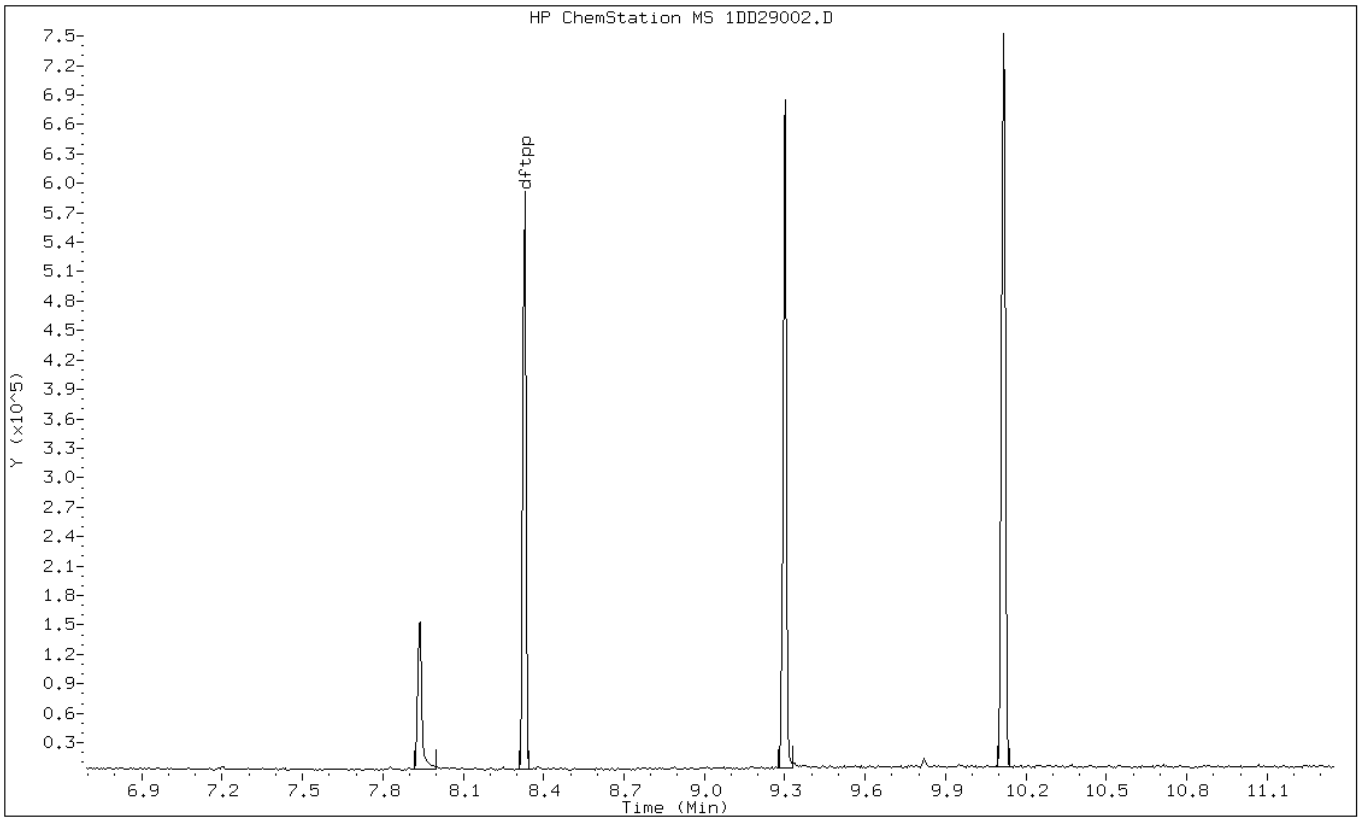
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.329	8.532	-0.203	198	60352			50.00- 0.00	100.00
8.329	8.532	-0.203	51	26272			10.00- 80.00	43.53
8.329	8.532	-0.203	68	0	0.0	0.0	0.00- 2.00	0.00
8.329	8.532	-0.203	69	25344			0.00- 0.00	41.99
8.329	8.532	-0.203	70	0	0.0	0.0	0.00- 2.00	0.00
8.329	8.532	-0.203	127	28280			10.00- 80.00	46.86
8.329	8.532	-0.203	197	0	0.0	0.0	0.00- 2.00	0.00
8.329	8.532	-0.203	442	49272			50.00- 0.00	81.64
8.329	8.532	-0.203	199	4115			5.00- 9.00	6.82
8.329	8.532	-0.203	275	17680			10.00- 60.00	29.29
8.329	8.532	-0.203	365	2760			1.00- 0.00	4.57
8.329	8.532	-0.203	441	8111			0.01- 99.99	85.32
8.329	8.532	-0.203	443	9507			15.00- 24.00	19.29

Data File: 1DD29002.D

Date: 29-APR-2013 10:35

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1525850 | Operator: SCC



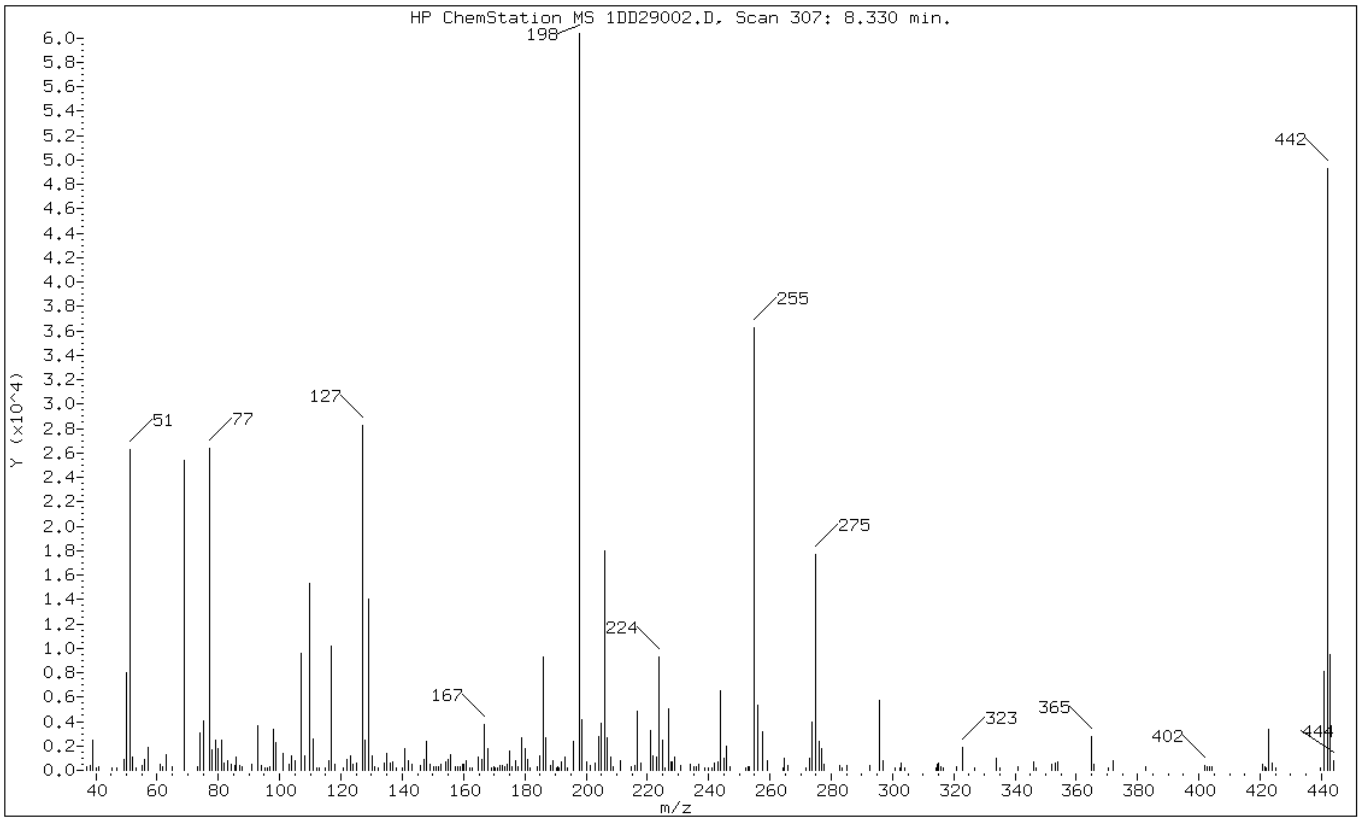
Data File: 1DD29002.D

Date: 29-APR-2013 10:35

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	43.53
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	41.99
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	46.86
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	81.64
199	5.00 - 9.00% of mass 198	6.82
275	10.00 - 60.00% of mass 198	29.29
365	Greater than 1.00% of mass 198	4.57
441	Present, but less than mass 443	13.44
443	15.00 - 24.00% of mass 442	15.75 (19.29)

Data File: 1DD29002.D

Date: 29-APR-2013 10:35

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\1DD29002.D
Spectrum: HP ChemStation MS 1DD29002.D, Scan 307: 8.330 min.
Location of Maximum: 197.90
Number of points: 235

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	290	123.00	1215	185.90	9256	264.10	159
38.00	407	123.90	460	186.90	2705	264.80	956
39.00	2493	124.90	639	188.20	360	265.80	365
40.10	183	127.00	28280	189.00	795	271.80	175
41.10	328	128.00	2430	190.30	169	273.00	982
45.10	168	128.90	14065	190.80	253	273.90	3914
47.00	188	130.10	1232	191.30	204	274.90	17680
49.00	926	131.10	262	191.90	715	275.90	2352
50.00	8033	132.00	205	193.00	1070	276.80	1796
51.00	26272	134.00	580	193.80	225	277.80	472
52.00	1047	135.00	1375	196.00	2360	282.90	367
53.10	171	136.10	565	197.90	60352	283.70	178
55.00	351	137.00	725	198.80	4115	285.00	399
55.90	849	137.90	222	200.10	655	292.80	420
57.00	1901	140.00	153	201.50	348	295.90	5757
61.00	466	140.90	1779	203.00	599	296.90	836
61.90	268	142.00	829	204.00	2721	301.00	174
63.00	1257	143.00	517	205.00	3835	302.30	239
64.90	345	146.10	370	206.00	18016	302.90	557
69.00	25344	147.10	858	207.00	2625	303.90	245
73.10	344	147.90	2356	208.00	1046	314.10	233
74.00	3072	148.90	447	208.90	296	314.80	534
75.00	4092	150.10	311	211.20	762	315.20	633
77.00	26416	151.20	313	214.80	314	315.90	337
78.00	1682	151.90	257	215.80	375	316.50	152
79.00	2423	152.80	467	216.90	4863	320.80	252
80.00	1733	154.00	645	217.80	609	322.80	1876
81.00	2476	154.90	920	220.90	3239	327.00	244
82.00	587	155.90	1333	221.90	1143	334.00	1028
83.00	765	157.30	327	222.90	1126	335.00	227
84.10	541	158.20	259	223.90	9289	340.90	337
85.20	419	158.90	301	224.80	2445	345.90	662
85.90	1106	159.70	499	225.90	224	347.00	193
87.00	420	160.00	508	226.90	5000	352.00	476
87.90	258	160.90	807	227.90	732	353.10	605
90.90	463	161.90	183	228.10	731	354.10	732
93.00	3663	162.90	166	228.90	1074	364.90	2760
93.90	349	164.90	1046	230.80	350	365.80	490
95.20	216	166.00	896	233.90	500	370.50	164
96.10	193	166.90	3799	235.00	294	371.90	749

96.80	252	167.80	1737	235.90	282	372.20	589
97.90	3358	169.20	172	236.90	447	382.80	295
98.90	2312	169.90	248	238.90	225	402.00	365
101.00	1407	170.50	162	239.90	152	402.70	332
103.00	507	171.00	168	241.00	175	402.90	316
103.90	1190	171.90	357	241.90	587	403.30	292
105.00	838	172.80	358	243.00	702	404.10	256
107.00	9598	173.30	344	244.00	6480	420.90	514
108.00	1234	174.10	521	244.90	1020	421.70	251
109.90	15274	174.90	1595	245.90	1967	421.90	238
110.90	2587	175.90	336	246.90	298	422.90	3399
112.10	213	177.00	756	247.10	320	424.10	568
112.90	224	177.90	317	252.00	162	425.00	163
114.80	222	179.00	2645	252.80	295	439.80	246
116.10	805	180.00	1754	253.10	302	441.00	8111
116.90	10196	181.10	888	254.90	36224	441.90	49272
118.10	503	181.90	181	255.90	5291	443.00	9507
120.80	178	183.90	327	257.80	3160	444.00	756
122.00	840	184.90	1209	259.00	805		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: | Lab Sample ID: MB 660-136834/1-A

Matrix: Solid | Lab File ID: 1DD29005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/25/2013 12:29

Sample wt/vol: 14.95(g) | Date Analyzed: 04/29/2013 12:01

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.: 136926 | Units: ug/Kg

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	49		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\1DD29005.D
Lab Smp Id: mb 660-136834/1-a
Inj Date : 29-APR-2013 12:01
Operator : SCC Inst ID: BSMSD.i
Smp Info : mb 660-136834/1-a
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\dFASTPAHi.m
Meth Date : 29-Apr-2013 11:13 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

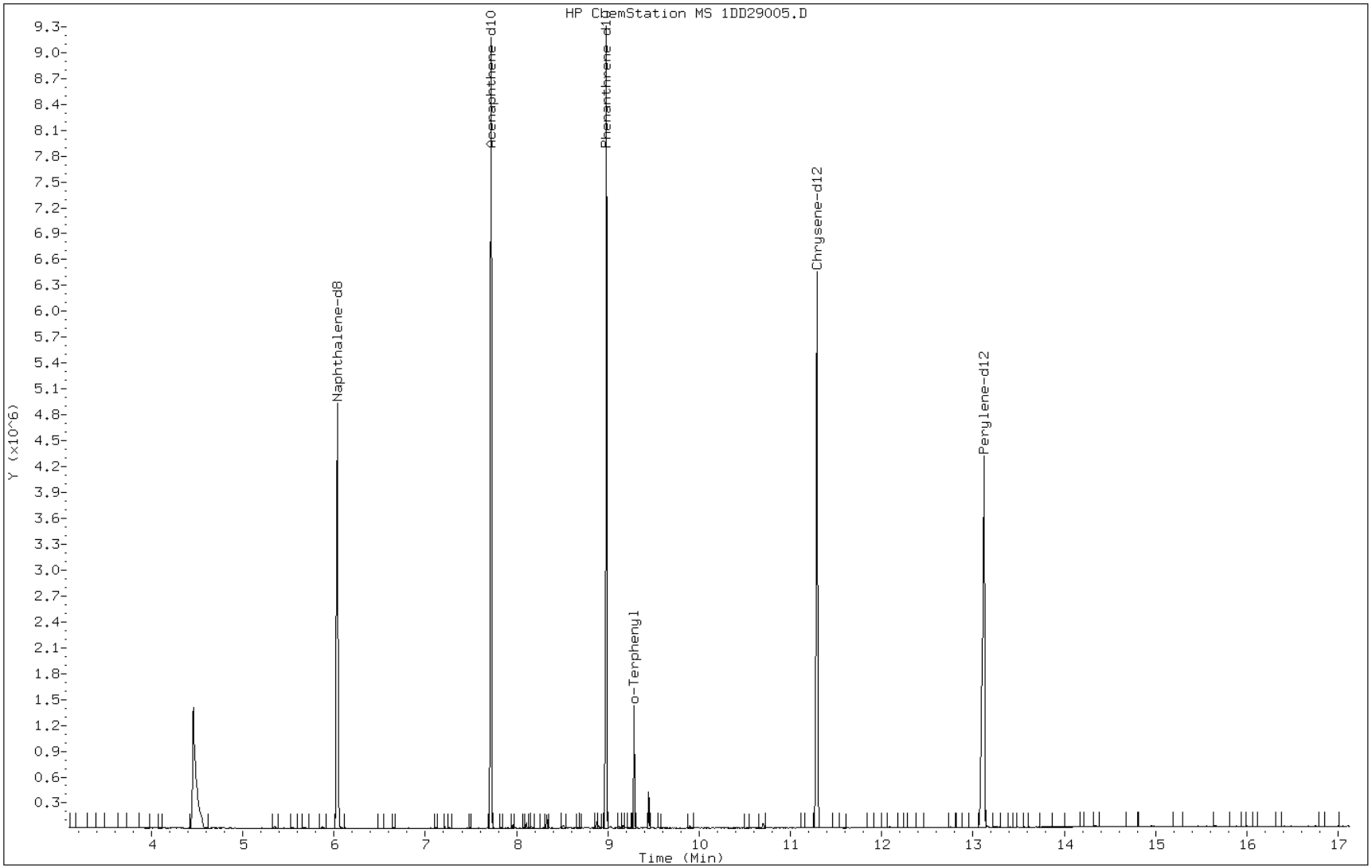
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.033	6.037	(1.000)	2504795	40.0000	
* 6 Acenaphthene-d10	164	7.719	7.717	(1.000)	1651676	40.0000	
* 9 Phenanthrene-d10	188	8.983	8.980	(1.000)	2816239	40.0000	
$ 13 o-Terphenyl	230	9.288	9.286	(1.034)	205802	4.85001	320
* 17 Chrysene-d12	240	11.292	11.295	(1.000)	2803871	40.0000	
* 22 Perylene-d12	264	13.125	13.117	(1.000)	2774736	40.0000	

Data File: 1DD29005.D

Date: 29-APR-2013 12:01

Client ID: Instrument: BSMSD.i

Sample Info: mb 660-136834/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: | Lab Sample ID: MB 660-136855/1-A

Matrix: Solid | Lab File ID: 1AD29005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 15.03(g) | Date Analyzed: 04/29/2013 13:08

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.: 136961 | Units: ug/Kg

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29005.D
Lab Smp Id: MB 660-136855/1-A
Inj Date : 29-APR-2013 13:08
Operator : SCC Inst ID: BSMA5973.i
Smp Info : MB 660-136855/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
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	15.030	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

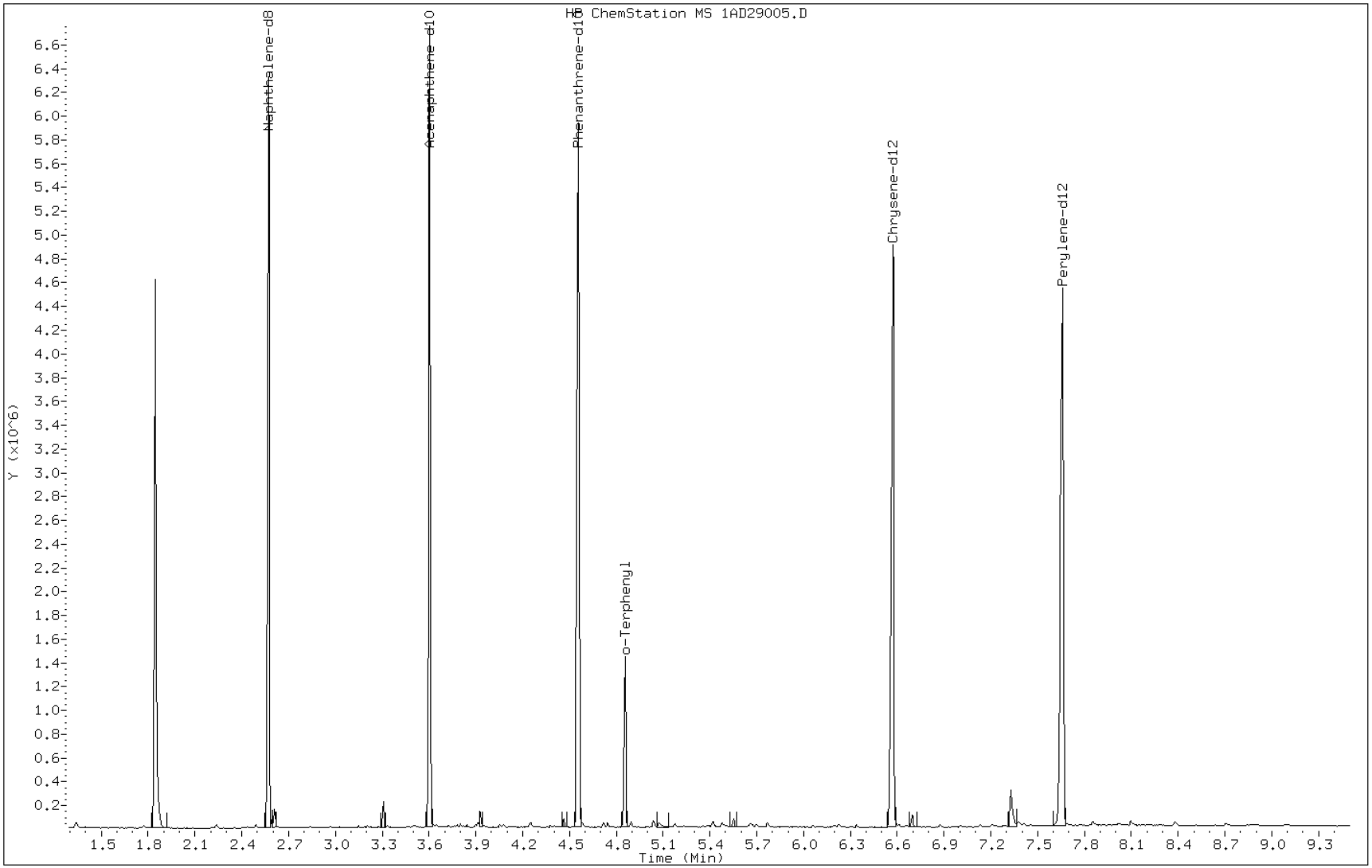
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.569	2.572	(1.000)	2490016	40.0000	
* 6 Acenaphthene-d10	164	3.606	3.603	(1.000)	1293513	40.0000	
* 10 Phenanthrene-d10	188	4.557	4.554	(1.000)	2244776	40.0000	
$ 14 o-Terphenyl	230	4.856	4.859	(1.066)	231530	6.30588	419.5530
* 18 Chrysene-d12	240	6.570	6.574	(1.000)	2148223	40.0000	
* 23 Perylene-d12	264	7.660	7.663	(1.000)	2133331	40.0000	

Data File: 1AD29005.D

Date: 29-APR-2013 13:08

Client ID: Instrument: BSMA5973.i

Sample Info: MB 660-136855/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: | Lab Sample ID: LCS 660-136834/2-A

Matrix: Solid | Lab File ID: 1DD29006.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/25/2013 12:29

Sample wt/vol: 14.95(g) | Date Analyzed: 04/29/2013 12:24

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

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

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

Analysis Batch No.: 136926 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	341		100	20
208-96-8	Acenaphthylene	360		40	5.0
120-12-7	Anthracene	359		8.4	4.2
56-55-3	Benzo[a]anthracene	392		8.0	3.9
50-32-8	Benzo[a]pyrene	344		10	5.2
205-99-2	Benzo[b]fluoranthene	412		12	6.1
191-24-2	Benzo[g,h,i]perylene	382		20	4.4
207-08-9	Benzo[k]fluoranthene	381		8.0	3.6
218-01-9	Chrysene	359		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	399		20	4.1
206-44-0	Fluoranthene	391		20	4.0
86-73-7	Fluorene	382		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	372		20	7.1
90-12-0	1-Methylnaphthalene	391		40	4.4
91-57-6	2-Methylnaphthalene	379		40	7.1
91-20-3	Naphthalene	366		40	4.4
85-01-8	Phenanthrene	358		8.0	3.9
129-00-0	Pyrene	356		20	3.7

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\1D042913.b\1DD29006.D
Lab Smp Id: lcs 660-136834/2-a
Inj Date : 29-APR-2013 12:24
Operator : SCC Inst ID: BSMSD.i
Smp Info : lcs 660-136834/2-a
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\dFASTPAHi.m
Meth Date : 29-Apr-2013 11:13 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.031	6.037	(1.000)	2579733	40.0000	
* 6 Acenaphthene-d10	164	7.718	7.717	(1.000)	1703760	40.0000	
* 9 Phenanthrene-d10	188	8.981	8.980	(1.000)	2881528	40.0000	
$ 13 o-Terphenyl	230	9.286	9.286	(1.034)	247274	5.69532	380
* 17 Chrysene-d12	240	11.296	11.295	(1.000)	3025700	40.0000	
* 22 Perylene-d12	264	13.117	13.117	(1.000)	2906735	40.0000	
2 Naphthalene	128	6.049	6.054	(1.003)	350479	5.46594	360
3 2-Methylnaphthalene	142	6.760	6.765	(1.121)	234646	5.66889	380
4 1-Methylnaphthalene	142	6.854	6.859	(1.136)	228588	5.84799	390
5 Acenaphthylene	152	7.588	7.588	(0.983)	388081	5.38176	360
7 Acenaphthene	154	7.741	7.747	(1.003)	226623	5.09134	340
8 Fluorene	166	8.188	8.187	(1.061)	301083	5.71201	380
10 Phenanthrene	178	8.998	8.998	(1.002)	424367	5.34664	360
11 Anthracene	178	9.040	9.039	(1.007)	422589	5.36432	360

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.175	9.180	(1.022)	251088	3.61346	240(R)
14 Fluoranthene	202	9.980	9.985	(1.111)	477829	5.85027	390
15 Pyrene	202	10.168	10.173	(0.900)	483249	5.31852	360
16 Benzo(a)anthracene	228	11.272	11.278	(0.998)	512432	5.85777	390
18 Chrysene	228	11.313	11.319	(1.002)	439932	5.36344	360
19 Benzo(b)fluoranthene	252	12.565	12.570	(0.958)	446806	6.15343	410
20 Benzo(k)fluoranthene	252	12.600	12.611	(0.961)	435426	5.69215	380
21 Benzo(a)pyrene	252	13.005	13.023	(0.991)	374779	5.13698	340
23 Indeno(1,2,3-cd)pyrene	276	14.686	14.703	(1.120)	432960	5.56548	370(M)
24 Dibenzo(a,h)anthracene	278	14.709	14.732	(1.121)	436893	5.96382	400
25 Benzo(g,h,i)perylene	276	15.121	15.144	(1.153)	428217	5.71683	380(H)

QC Flag Legend

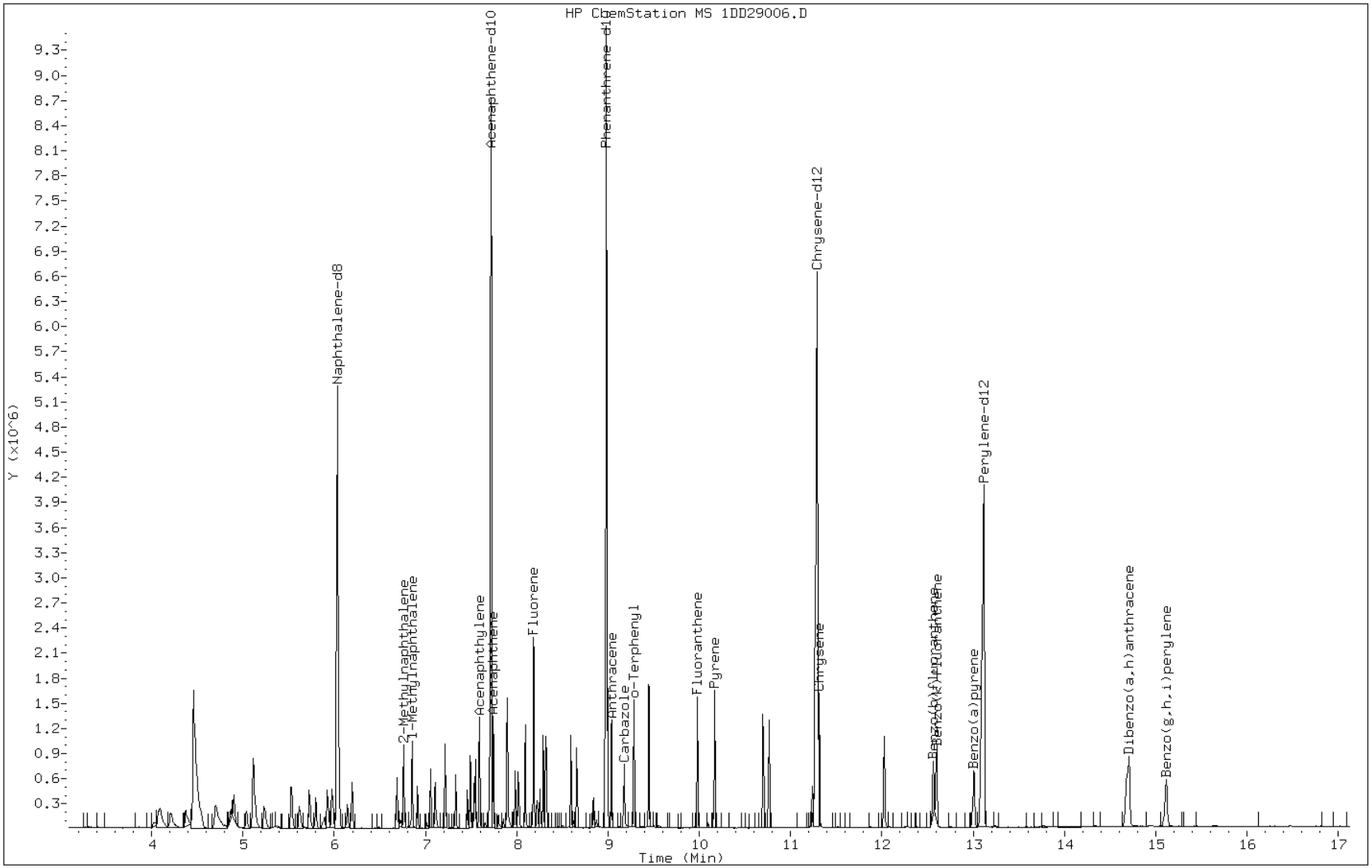
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD29006.D

Date: 29-APR-2013 12:24

Client ID: Instrument: BSMSD.i

Sample Info: lcs 660-136834/2-a Operator: SCC



Manual Integration Report

Data File: 1DD29006.D
Inj. Date and Time: 29-APR-2013 12:24
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/30/2013

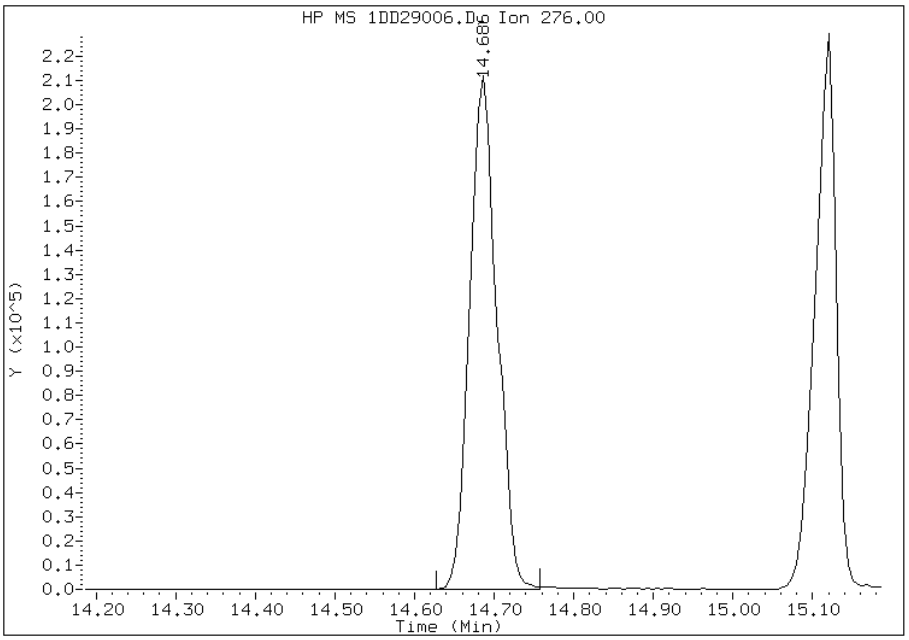
Processing Integration Results

RT: 14.69

Response: 503460

Amount: 6

Conc: 433



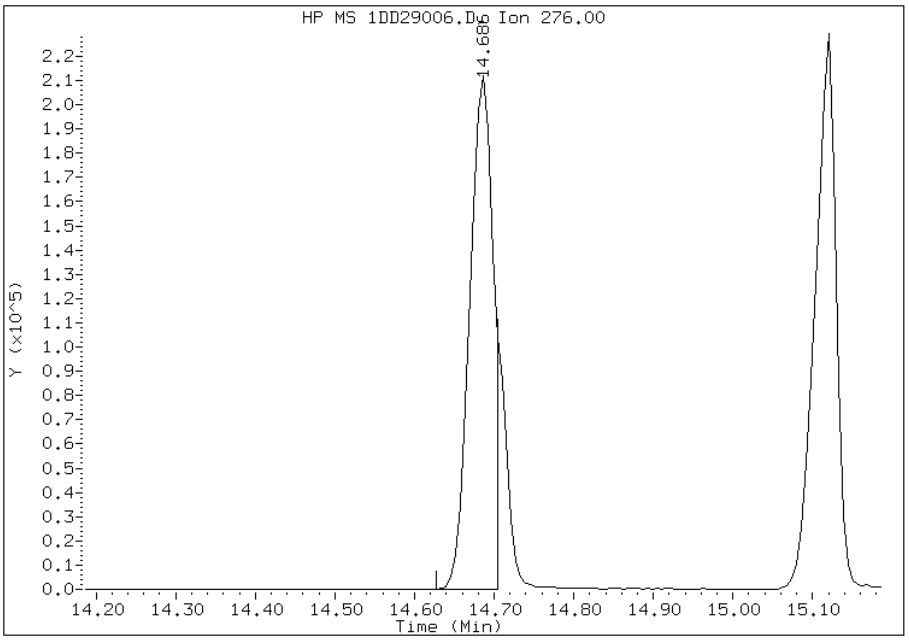
Manual Integration Results

RT: 14.69

Response: 432960

Amount: 6

Conc: 372



Manually Integrated By: cantins
Modification Date: 30-Apr-2013 12:17
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-89695-1
SDG No.: 68089695-1
Client Sample ID:
Lab Sample ID: LCS 660-136855/2-A
Matrix: Solid
Lab File ID: 1AD29006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 04/26/2013 07:28
Sample wt/vol: 15.24(g)
Date Analyzed: 04/29/2013 13:24
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 136961
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	395		98	20
208-96-8	Acenaphthylene	392		39	4.9
120-12-7	Anthracene	399		8.3	4.1
56-55-3	Benzo[a]anthracene	400		7.9	3.8
50-32-8	Benzo[a]pyrene	390		10	5.1
205-99-2	Benzo[b]fluoranthene	430		12	6.0
191-24-2	Benzo[g,h,i]perylene	396		20	4.3
207-08-9	Benzo[k]fluoranthene	392		7.9	3.5
218-01-9	Chrysene	376		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	462		20	4.0
206-44-0	Fluoranthene	442		20	3.9
86-73-7	Fluorene	420		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	423		20	7.0
90-12-0	1-Methylnaphthalene	453		39	4.3
91-57-6	2-Methylnaphthalene	430		39	7.0
91-20-3	Naphthalene	410		39	4.3
85-01-8	Phenanthrene	386		7.9	3.8
129-00-0	Pyrene	413		20	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29006.D
Lab Smp Id: LCS 660-136855/2-A
Inj Date : 29-APR-2013 13:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : LCS 660-136855/2-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.240	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.576	2.572	(1.000)	2197337	40.0000	
* 6 Acenaphthene-d10	164	3.607	3.603	(1.000)	1155712	40.0000	
* 10 Phenanthrene-d10	188	4.558	4.554	(1.000)	2046244	40.0000	
$ 14 o-Terphenyl	230	4.851	4.859	(1.064)	217358	6.49426	426.1327
* 18 Chrysene-d12	240	6.572	6.574	(1.000)	1891133	40.0000	
* 23 Perylene-d12	264	7.656	7.663	(1.000)	1900613	40.0000	
2 Naphthalene	128	2.586	2.583	(1.004)	343324	6.25033	410.1267
3 2-Methylnaphthalene	141	2.987	2.989	(1.160)	206567	6.55936	430.4039
4 1-Methylnaphthalene	142	3.046	3.048	(1.182)	240782	6.90108	452.8265
5 Acenaphthylene	152	3.516	3.513	(0.975)	403617	5.97570	392.1065
7 Acenaphthene	154	3.623	3.619	(1.004)	213018	6.01385	394.6094
9 Fluorene	166	3.933	3.935	(1.090)	272756	6.40023	419.9626
11 Phenanthrene	178	4.568	4.570	(1.002)	348954	5.88698	386.2844
12 Anthracene	178	4.600	4.608	(1.009)	374398	6.07455	398.5924

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.729	4.736	(1.038)	369280	6.21079	407.5323
15 Fluoranthene	202	5.428	5.436	(1.191)	461172	6.73591	441.9891
16 Pyrene	202	5.594	5.601	(0.851)	454131	6.29443	413.0203
17 Benzo(a)anthracene	228	6.561	6.563	(0.998)	376102	6.08985	399.5962
19 Chrysene	228	6.588	6.595	(1.002)	358972	5.72929	375.9375
20 Benzo(b)fluoranthene	252	7.373	7.380	(0.963)	378202	6.55446	430.0826
21 Benzo(k)fluoranthene	252	7.394	7.407	(0.966)	396811	5.98128	392.4725
22 Benzo(a)pyrene	252	7.597	7.610	(0.992)	341506	5.94933	390.3761
24 Indeno(1,2,3-cd)pyrene	276	8.404	8.427	(1.098)	349003	6.43920	422.5193(H)
25 Dibenzo(a,h)anthracene	278	8.431	8.454	(1.101)	354707	7.03362	461.5237
26 Benzo(g,h,i)perylene	276	8.623	8.646	(1.126)	366534	6.04244	396.4858

QC Flag Legend

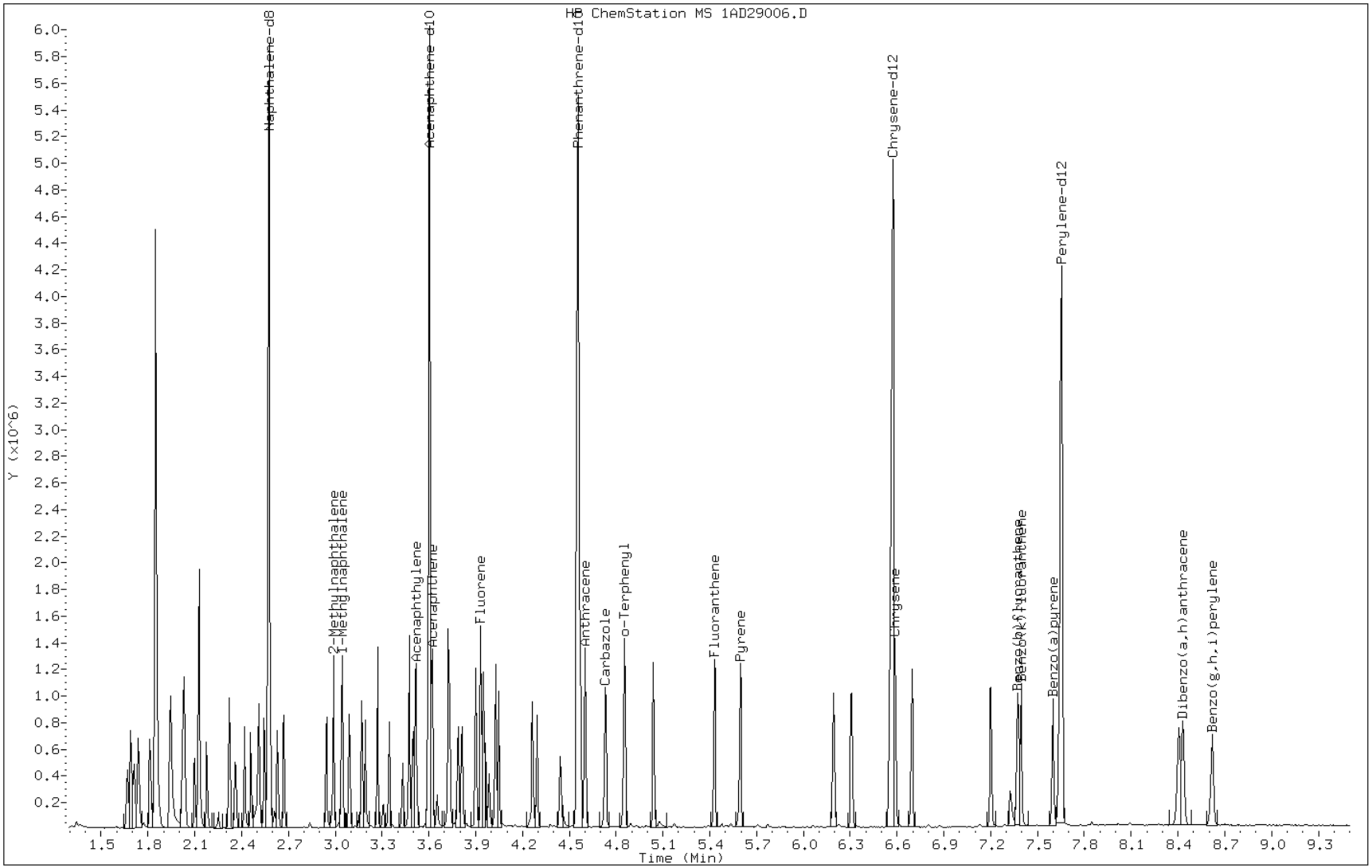
H - Operator selected an alternate compound hit.

Data File: 1AD29006.D

Date: 29-APR-2013 13:24

Client ID: Instrument: BSMA5973.i

Sample Info: LCS 660-136855/2-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-89695-1
SDG No.: 68089695-1
Client Sample ID:
Lab Sample ID: 680-89516-A-21-B MS
Matrix: Solid
Lab File ID: 1DD29021.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 04/25/2013 12:29
Sample wt/vol: 14.92(g)
Date Analyzed: 04/29/2013 18:02
Con. Extract Vol.: 1(mL)
Dilution Factor: 4
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 19.8
GPC Cleanup:(Y/N) N
Analysis Batch No.: 136926
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	398	J	500	100
208-96-8	Acenaphthylene	423		200	25
120-12-7	Anthracene	578		42	21
56-55-3	Benzo[a]anthracene	1190		40	20
50-32-8	Benzo[a]pyrene	999		52	26
205-99-2	Benzo[b]fluoranthene	1680		61	31
191-24-2	Benzo[g,h,i]perylene	530		100	22
207-08-9	Benzo[k]fluoranthene	889		40	18
218-01-9	Chrysene	1140		45	23
53-70-3	Dibenz(a,h)anthracene	425		100	21
206-44-0	Fluoranthene	1720		100	20
86-73-7	Fluorene	409		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	585		100	36
90-12-0	1-Methylnaphthalene	589		200	22
91-57-6	2-Methylnaphthalene	604		200	36
91-20-3	Naphthalene	543		200	22
85-01-8	Phenanthrene	1170		40	20
129-00-0	Pyrene	1270		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	43		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\1DD29021.D
Lab Smp Id: 680-89516-a-21-b ms
Inj Date : 29-APR-2013 18:02
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89516-a-21-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\dFASTPAHi.m
Meth Date : 29-Apr-2013 11:13 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 21 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	14.920	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	6.043	6.037	(1.000)	2442745	40.0000	
* 6 Acenaphthene-d10	164	7.724	7.717	(1.000)	1631245	40.0000	
* 9 Phenanthrene-d10	188	8.987	8.980	(1.000)	2681572	40.0000	
$ 13 o-Terphenyl	230	9.287	9.286	(1.033)	43930	1.08726	290
* 17 Chrysene-d12	240	11.302	11.295	(1.000)	2884263	40.0000	
* 22 Perylene-d12	264	13.135	13.117	(1.000)	2623887	40.0000	
2 Naphthalene	128	6.061	6.054	(1.003)	98594	1.62386	440
3 2-Methylnaphthalene	142	6.766	6.765	(1.120)	70823	1.80699	480
4 1-Methylnaphthalene	142	6.860	6.859	(1.135)	65236	1.76253	470
5 Acenaphthylene	152	7.589	7.588	(0.983)	87437	1.26644	340
7 Acenaphthene	154	7.747	7.747	(1.003)	50684	1.18929	320
8 Fluorene	166	8.188	8.187	(1.060)	61802	1.22460	330
10 Phenanthrene	178	9.005	8.998	(1.002)	258526	3.50007	940(R)
11 Anthracene	178	9.040	9.039	(1.006)	126814	1.72980	460

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.187	9.180	(1.022)	86396	1.33605	360
14 Fluoranthene	202	9.986	9.985	(1.111)	390522	5.13786	1400(R)
15 Pyrene	202	10.174	10.173	(0.900)	329633	3.80576	1000(R)
16 Benzo(a)anthracene	228	11.290	11.278	(0.999)	296962	3.56113	950(R)
18 Chrysene	228	11.325	11.319	(1.002)	267178	3.41703	920(R)
19 Benzo(b)fluoranthene	252	12.583	12.570	(0.958)	329798	5.03160	1300(R)
20 Benzo(k)fluoranthene	252	12.612	12.611	(0.960)	183518	2.65767	710
21 Benzo(a)pyrene	252	13.029	13.023	(0.992)	196846	2.98896	800
23 Indeno(1,2,3-cd)pyrene	276	14.710	14.703	(1.120)	122862	1.74958	470(M)
24 Dibenzo(a,h)anthracene	278	14.733	14.732	(1.122)	84142	1.27240	340
25 Benzo(g,h,i)perylene	276	15.145	15.144	(1.153)	107223	1.58577	420

QC Flag Legend

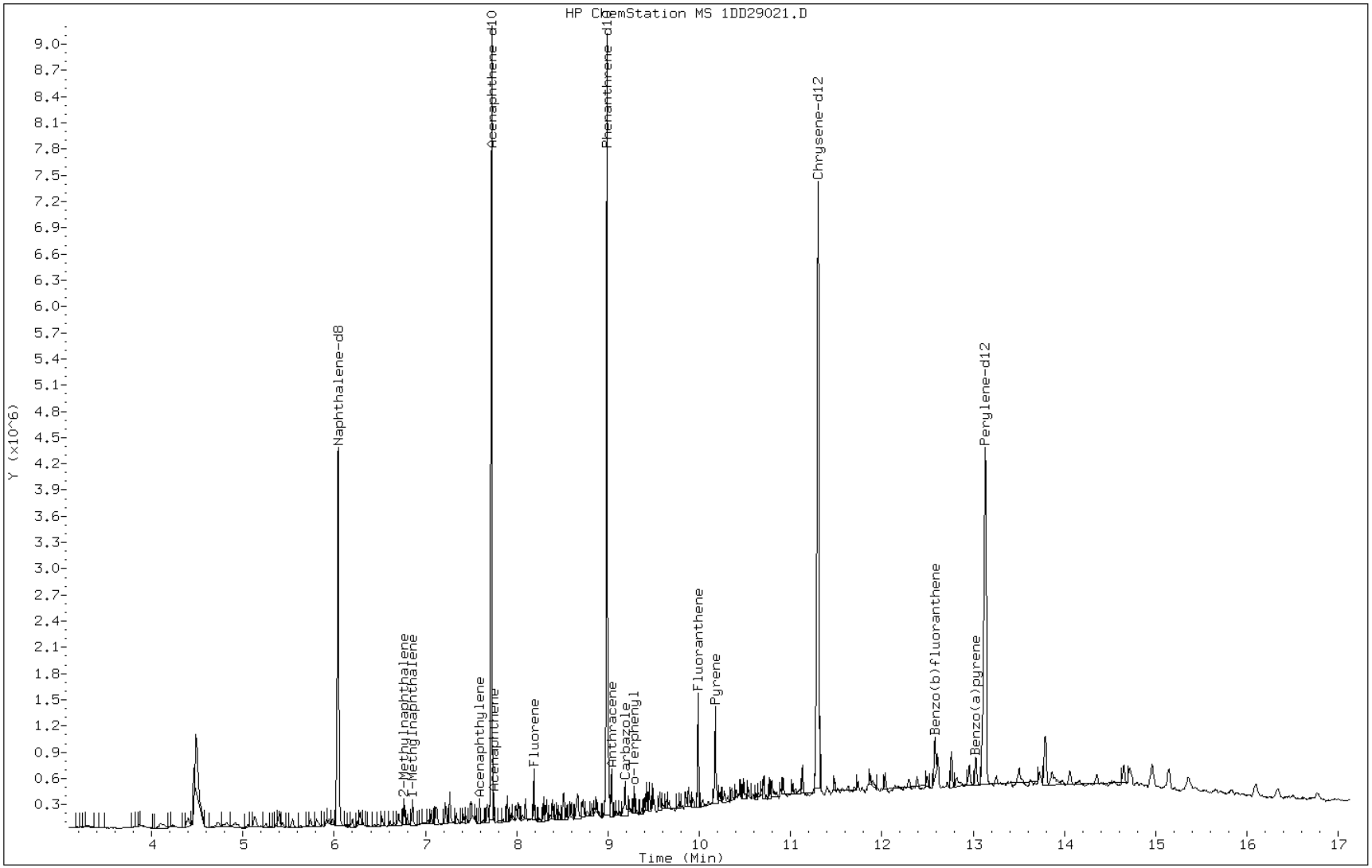
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DD29021.D

Date: 29-APR-2013 18:02

Client ID: Instrument: BSMSD.i

Sample Info: 680-89516-a-21-b ms Operator: SCC



Manual Integration Report

Data File: 1DD29021.D
Inj. Date and Time: 29-APR-2013 18:02
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/30/2013

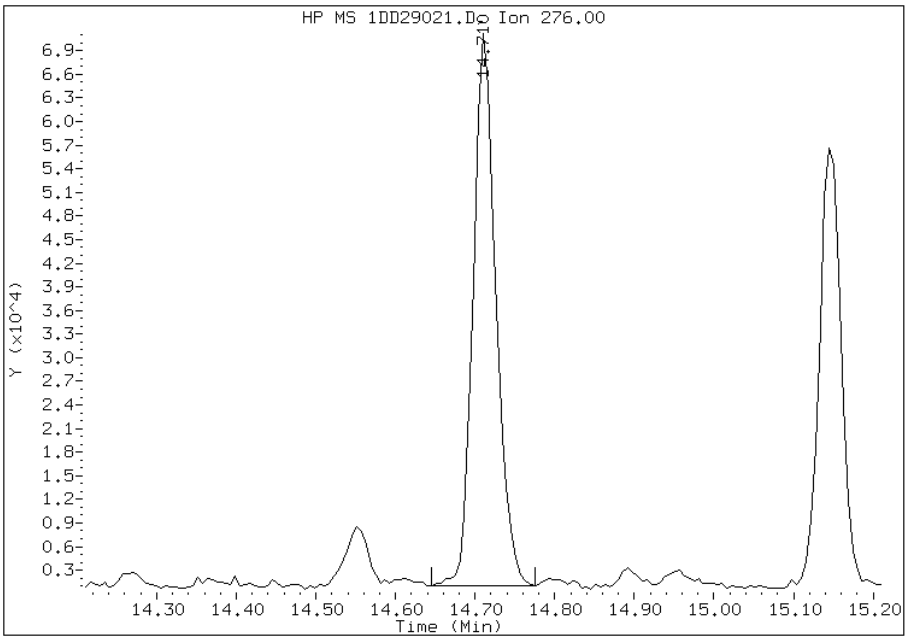
Processing Integration Results

RT: 14.71

Response: 138602

Amount: 2

Conc: 529



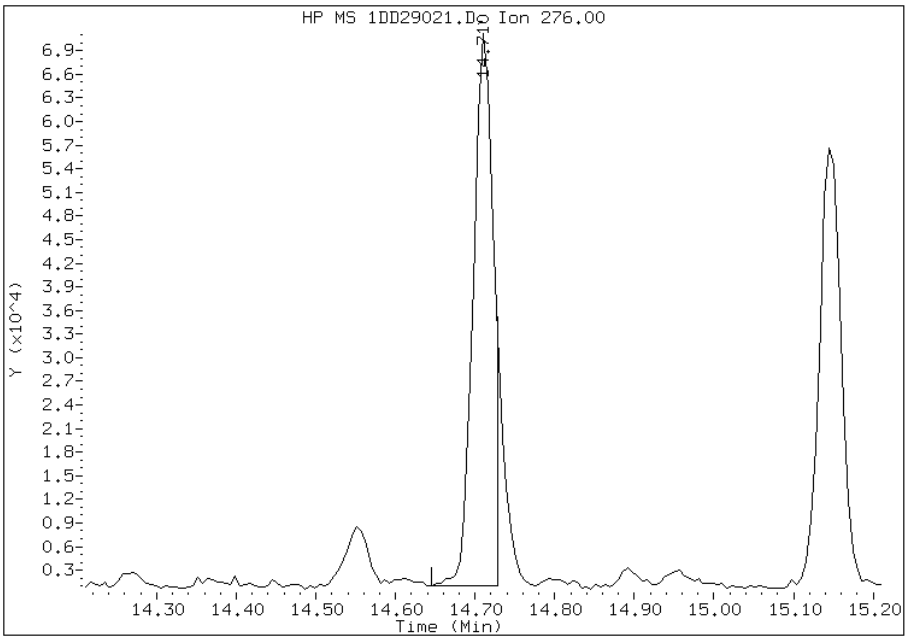
Manual Integration Results

RT: 14.71

Response: 122862

Amount: 2

Conc: 469



Manually Integrated By: cantins
Modification Date: 30-Apr-2013 15:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV1329A-CS MS | Lab Sample ID: 680-89695-4 MS

Matrix: Solid | Lab File ID: 1AD29008.D

Analysis Method: 8270C LL | Date Collected: 04/22/2013 14:55

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 14.95(g) | Date Analyzed: 04/29/2013 13:54

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

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

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136961 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	342		120	24
208-96-8	Acenaphthylene	347		48	6.0
120-12-7	Anthracene	374		10	5.0
56-55-3	Benzo[a]anthracene	437		9.6	4.7
50-32-8	Benzo[a]pyrene	412		12	6.2
205-99-2	Benzo[b]fluoranthene	554		15	7.3
191-24-2	Benzo[g,h,i]perylene	483		24	5.3
207-08-9	Benzo[k]fluoranthene	341		9.6	4.3
218-01-9	Chrysene	508		11	5.4
53-70-3	Dibenz(a,h)anthracene	483		24	4.9
206-44-0	Fluoranthene	537		24	4.8
86-73-7	Fluorene	352		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	505		24	8.5
90-12-0	1-Methylnaphthalene	453		48	5.3
91-57-6	2-Methylnaphthalene	456		48	8.5
91-20-3	Naphthalene	455		48	5.3
85-01-8	Phenanthrene	498		9.6	4.7
129-00-0	Pyrene	522		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	44		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29008.D
Lab Smp Id: 680-89695-a-4-b ms
Inj Date : 29-APR-2013 13:54
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89695-a-4-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.576	2.572	(1.000)	1871480	40.0000	
* 6 Acenaphthene-d10	164	3.607	3.603	(1.000)	952358	40.0000	
* 10 Phenanthrene-d10	188	4.558	4.554	(1.000)	1516673	40.0000	
$ 14 o-Terphenyl	230	4.857	4.859	(1.066)	110170	4.44102	297.0584
* 18 Chrysene-d12	240	6.577	6.574	(1.000)	1307573	40.0000	
* 23 Perylene-d12	264	7.662	7.663	(1.000)	1668789	40.0000	
2 Naphthalene	128	2.587	2.583	(1.004)	266784	5.70256	381.4424
3 2-Methylnaphthalene	141	2.993	2.989	(1.162)	153316	5.71609	382.3472
4 1-Methylnaphthalene	142	3.046	3.048	(1.182)	168652	5.67539	379.6247
5 Acenaphthylene	152	3.516	3.513	(0.975)	242144	4.35054	291.0057
7 Acenaphthene	154	3.623	3.619	(1.004)	125168	4.28824	286.8386
9 Fluorene	166	3.933	3.935	(1.090)	154746	4.40646	294.7467
11 Phenanthrene	178	4.569	4.570	(1.002)	273800	6.23194	416.8518
12 Anthracene	178	4.601	4.608	(1.009)	214168	4.68814	313.5879

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.734	4.736	(1.039)	191986	4.35639	291.3969(R)
15 Fluoranthene	202	5.434	5.436	(1.192)	341197	6.72364	449.7416
16 Pyrene	202	5.600	5.601	(0.851)	326150	6.53806	437.3283
17 Benzo(a)anthracene	228	6.567	6.563	(0.998)	233957	5.47889	366.4811
19 Chrysene	228	6.593	6.595	(1.002)	275857	6.36767	425.9307
20 Benzo(b)fluoranthene	252	7.384	7.380	(0.964)	351684	6.94157	464.3193
21 Benzo(k)fluoranthene	252	7.400	7.407	(0.966)	248726	4.26996	285.6161
22 Benzo(a)pyrene	252	7.608	7.610	(0.993)	260217	5.16295	345.3477
24 Indeno(1,2,3-cd)pyrene	276	8.426	8.427	(1.100)	300961	6.32419	423.0227
25 Dibenzo(a,h)anthracene	278	8.447	8.454	(1.102)	268161	6.05616	405.0941(M)
26 Benzo(g,h,i)perylene	276	8.645	8.646	(1.128)	322363	6.05251	404.8504

QC Flag Legend

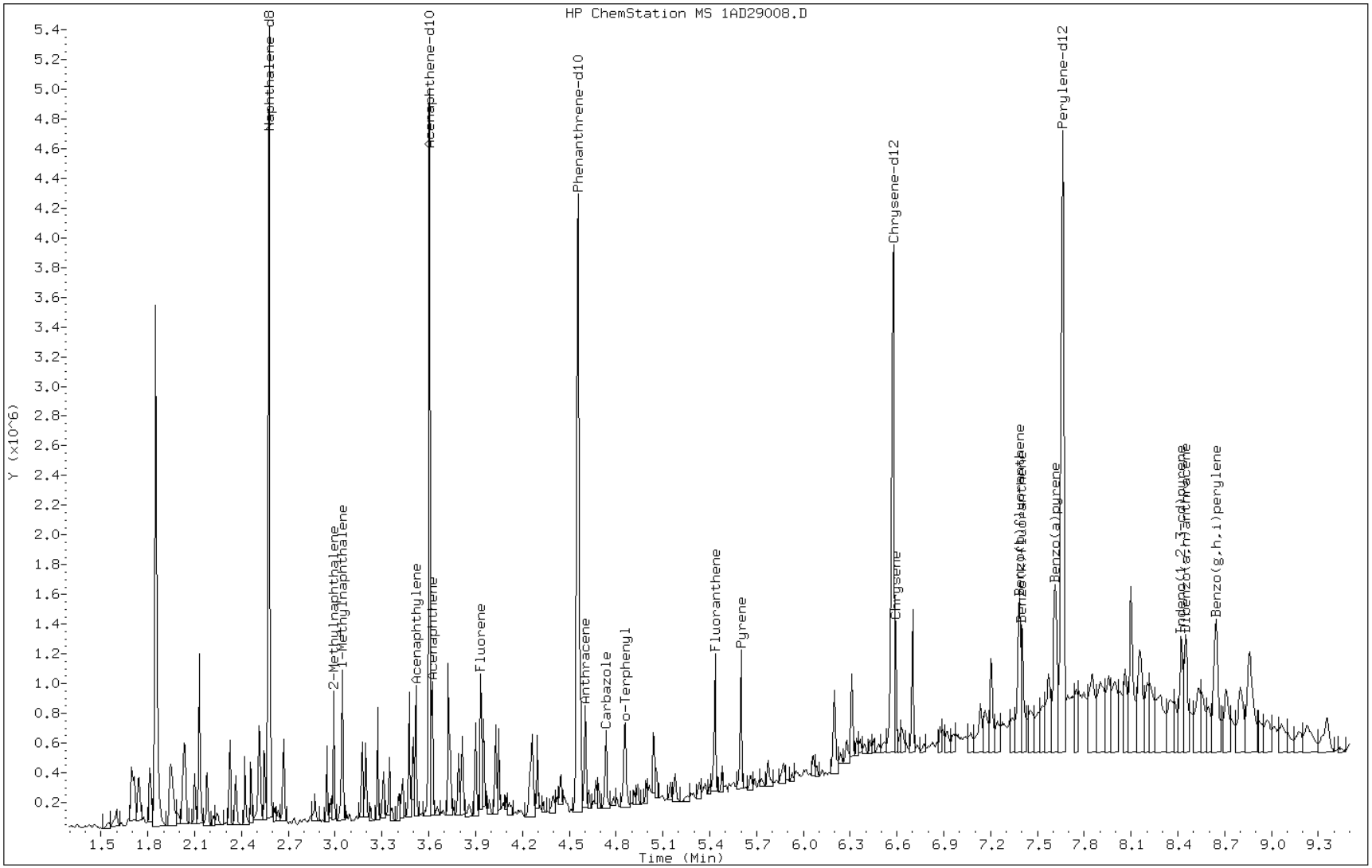
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AD29008.D

Date: 29-APR-2013 13:54

Client ID: Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-b ms Operator: SCC



Manual Integration Report

Data File: 1AD29008.D
Inj. Date and Time: 29-APR-2013 13:54
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/02/2013

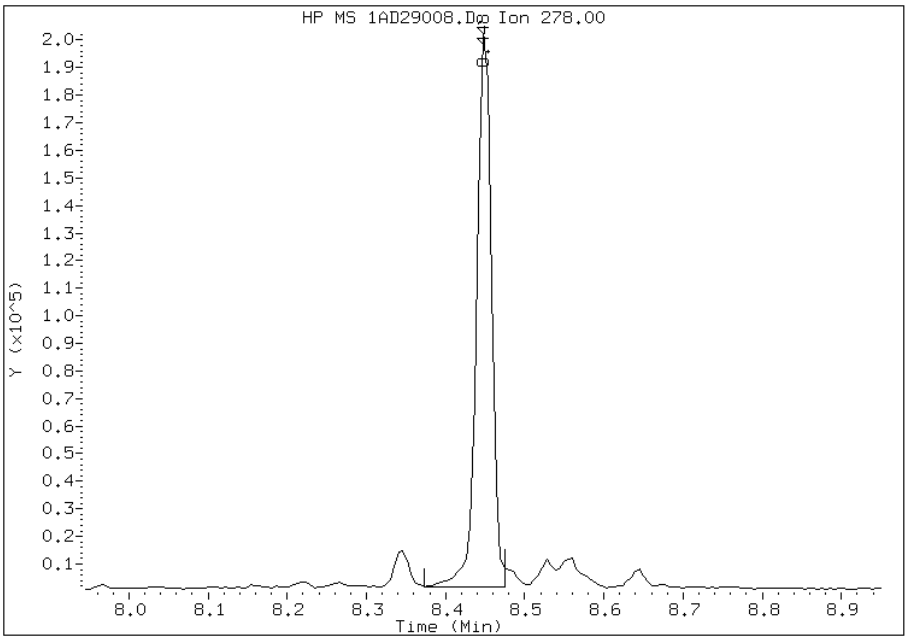
Processing Integration Results

RT: 8.45

Response: 260791

Amount: 6

Conc: 394



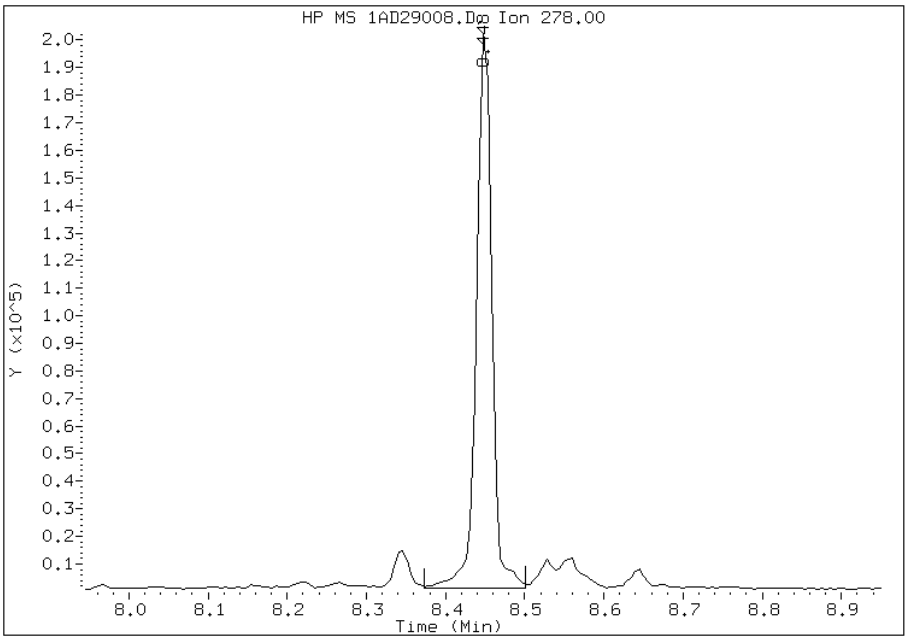
Manual Integration Results

RT: 8.45

Response: 268161

Amount: 6

Conc: 405



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:28
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: | Lab Sample ID: 680-89516-A-21-C MSD

Matrix: Solid | Lab File ID: 1DD29022.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/25/2013 12:29

Sample wt/vol: 14.92(g) | Date Analyzed: 04/29/2013 18:25

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

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

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

Analysis Batch No.: 136926 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	328	J	500	100
208-96-8	Acenaphthylene	369		200	25
120-12-7	Anthracene	785		42	21
56-55-3	Benzo[a]anthracene	1680		40	20
50-32-8	Benzo[a]pyrene	1290		52	26
205-99-2	Benzo[b]fluoranthene	2060		61	31
191-24-2	Benzo[g,h,i]perylene	646		100	22
207-08-9	Benzo[k]fluoranthene	1110		40	18
218-01-9	Chrysene	1530		45	23
53-70-3	Dibenz(a,h)anthracene	433		100	21
206-44-0	Fluoranthene	3100		100	20
86-73-7	Fluorene	426		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	719		100	36
90-12-0	1-Methylnaphthalene	399		200	22
91-57-6	2-Methylnaphthalene	410		200	36
91-20-3	Naphthalene	397		200	22
85-01-8	Phenanthrene	1900		40	20
129-00-0	Pyrene	2110		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	38		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\1DD29022.D
Lab Smp Id: 680-89516-a-21-c ms
Inj Date : 29-APR-2013 18:25
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89516-a-21-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042913.b\dFASTPAHi.m
Meth Date : 29-Apr-2013 11:13 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 22 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	14.920	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	6.043	6.037	(1.000)	2506987	40.0000	
* 6 Acenaphthene-d10	164	7.723	7.717	(1.000)	1641156	40.0000	
* 9 Phenanthrene-d10	188	8.987	8.980	(1.000)	2751357	40.0000	
$ 13 o-Terphenyl	230	9.286	9.286	(1.033)	39779	0.95955	260
* 17 Chrysene-d12	240	11.302	11.295	(1.000)	2895362	40.0000	
* 22 Perylene-d12	264	13.135	13.117	(1.000)	2574866	40.0000	
2 Naphthalene	128	6.061	6.054	(1.003)	74021	1.18790	320
3 2-Methylnaphthalene	142	6.766	6.765	(1.120)	49302	1.22567	330
4 1-Methylnaphthalene	142	6.860	6.859	(1.135)	45344	1.19370	320
5 Acenaphthylene	152	7.594	7.588	(0.983)	76652	1.10353	300
7 Acenaphthene	154	7.747	7.747	(1.003)	42027	0.98020	260
8 Fluorene	166	8.188	8.187	(1.060)	64664	1.27357	340
10 Phenanthrene	178	9.004	8.998	(1.002)	429952	5.67329	1500(R)
11 Anthracene	178	9.039	9.039	(1.006)	176539	2.34700	630

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.186	9.180	(1.022)	121729	1.83471	490
14 Fluoranthene	202	9.985	9.985	(1.111)	723181	9.27314	2500(R)
15 Pyrene	202	10.173	10.173	(0.900)	548891	6.31290	1700(R)
16 Benzo(a)anthracene	228	11.290	11.278	(0.999)	420291	5.02076	1300(R)
18 Chrysene	228	11.325	11.319	(1.002)	358608	4.56878	1200(R)
19 Benzo(b)fluoranthene	252	12.582	12.570	(0.958)	395614	6.15064	1600(R)
20 Benzo(k)fluoranthene	252	12.612	12.611	(0.960)	225553	3.32860	890(R)
21 Benzo(a)pyrene	252	13.029	13.023	(0.992)	248369	3.84309	1000(R)
23 Indeno(1,2,3-cd)pyrene	276	14.709	14.703	(1.120)	148097	2.14908	580(M)
24 Dibenzo(a,h)anthracene	278	14.733	14.732	(1.122)	83981	1.29414	350
25 Benzo(g,h,i)perylene	276	15.144	15.144	(1.153)	128221	1.93242	520

QC Flag Legend

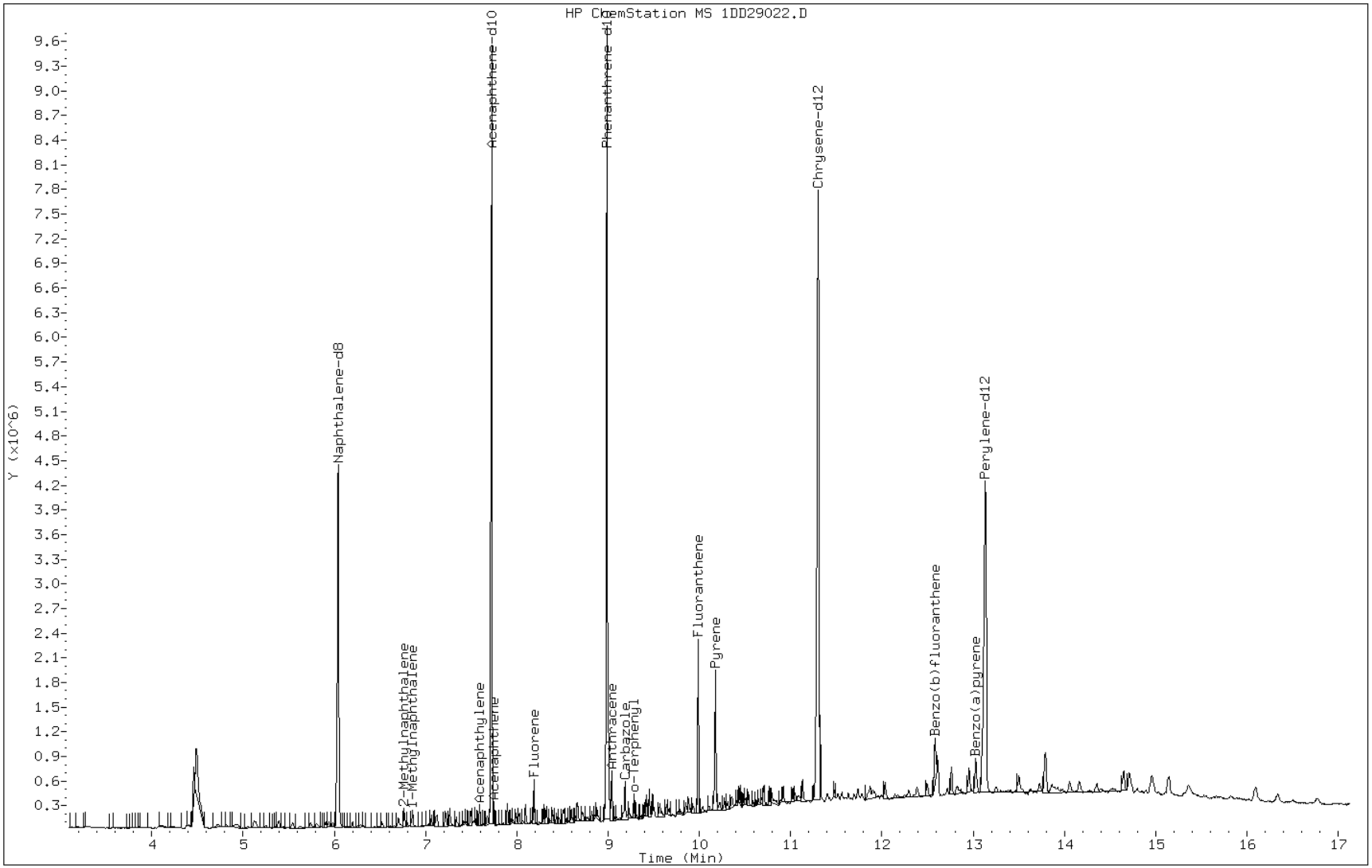
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DD29022.D

Date: 29-APR-2013 18:25

Client ID: Instrument: BSMSD.i

Sample Info: 680-89516-a-21-c msd Operator: SCC



Manual Integration Report

Data File: 1DD29022.D
Inj. Date and Time: 29-APR-2013 18:25
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/30/2013

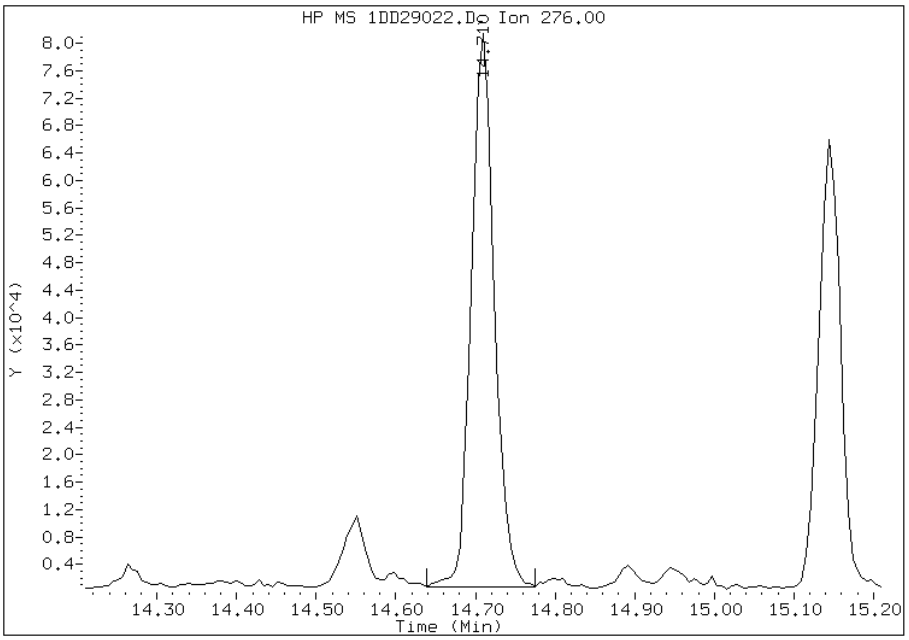
Processing Integration Results

RT: 14.71

Response: 162696

Amount: 2

Conc: 633



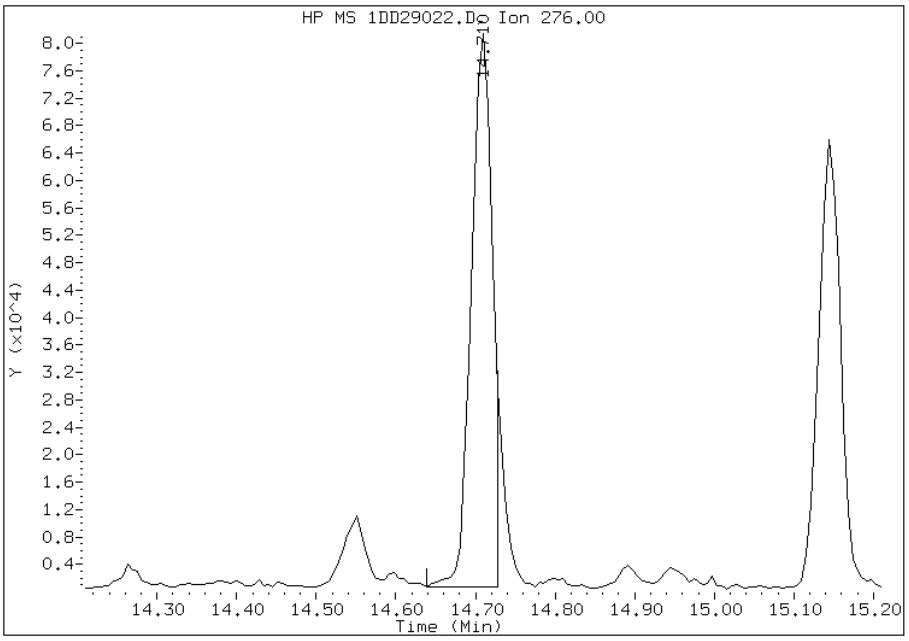
Manual Integration Results

RT: 14.71

Response: 148097

Amount: 2

Conc: 576



Manually Integrated By: cantins
Modification Date: 30-Apr-2013 15:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89695-1

SDG No.: 68089695-1

Client Sample ID: CV1329A-CS MSD | Lab Sample ID: 680-89695-4 MSD

Matrix: Solid | Lab File ID: 1AD29009.D

Analysis Method: 8270C LL | Date Collected: 04/22/2013 14:55

Extract. Method: 3546 | Date Extracted: 04/26/2013 07:28

Sample wt/vol: 14.95(g) | Date Analyzed: 04/29/2013 14:09

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

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

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136961 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	360		120	24
208-96-8	Acenaphthylene	366		48	6.0
120-12-7	Anthracene	414		10	5.0
56-55-3	Benzo[a]anthracene	496		9.6	4.7
50-32-8	Benzo[a]pyrene	459		12	6.2
205-99-2	Benzo[b]fluoranthene	619		15	7.3
191-24-2	Benzo[g,h,i]perylene	500		24	5.3
207-08-9	Benzo[k]fluoranthene	373		9.6	4.3
218-01-9	Chrysene	531		11	5.4
53-70-3	Dibenz(a,h)anthracene	497		24	4.9
206-44-0	Fluoranthene	599		24	4.8
86-73-7	Fluorene	363		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	537		24	8.5
90-12-0	1-Methylnaphthalene	474		48	5.3
91-57-6	2-Methylnaphthalene	504		48	8.5
91-20-3	Naphthalene	528		48	5.3
85-01-8	Phenanthrene	570		9.6	4.7
129-00-0	Pyrene	555		24	4.4

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\BSMA5973.i\1A042913.b\1AD29009.D
Lab Smp Id: 680-89695-a-4-c msd
Inj Date : 29-APR-2013 14:09
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89695-a-4-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 9 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.578	2.572	(1.000)	2041703	40.0000	
* 6 Acenaphthene-d10	164	3.609	3.603	(1.000)	1062859	40.0000	
* 10 Phenanthrene-d10	188	4.560	4.554	(1.000)	1728645	40.0000	
$ 14 o-Terphenyl	230	4.854	4.859	(1.064)	130026	4.59871	307.6060
* 18 Chrysene-d12	240	6.585	6.574	(1.000)	1643288	40.0000	
* 23 Perylene-d12	264	7.675	7.663	(1.000)	2068854	40.0000	
2 Naphthalene	128	2.589	2.583	(1.004)	337638	6.61537	442.4998
3 2-Methylnaphthalene	141	2.989	2.989	(1.160)	184581	6.30799	421.9394
4 1-Methylnaphthalene	142	3.048	3.048	(1.182)	192501	5.93786	397.1812
5 Acenaphthylene	152	3.513	3.513	(0.973)	284394	4.57840	306.2477
7 Acenaphthene	154	3.620	3.619	(1.003)	146687	4.50300	301.2038
9 Fluorene	166	3.935	3.935	(1.090)	178023	4.54225	303.8297
11 Phenanthrene	178	4.571	4.570	(1.002)	357568	7.14059	477.6316
12 Anthracene	178	4.603	4.608	(1.009)	269694	5.17969	346.4672

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.736	4.736	(1.039)	233930	4.65724	311.5211(R)
15 Fluoranthene	202	5.436	5.436	(1.192)	433626	7.49723	501.4866
16 Pyrene	202	5.602	5.601	(0.851)	436044	6.95527	465.2354
17 Benzo(a)anthracene	228	6.574	6.563	(0.998)	333175	6.20843	415.2793
19 Chrysene	228	6.595	6.595	(1.002)	361964	6.64835	444.7056
20 Benzo(b)fluoranthene	252	7.391	7.380	(0.963)	487118	7.75552	518.7641
21 Benzo(k)fluoranthene	252	7.407	7.407	(0.965)	337534	4.67403	312.6444
22 Benzo(a)pyrene	252	7.616	7.610	(0.992)	358924	5.74429	384.2333
24 Indeno(1,2,3-cd)pyrene	276	8.438	8.427	(1.100)	396664	6.72340	449.7259(M)
25 Dibenzo(a,h)anthracene	278	8.460	8.454	(1.102)	341480	6.22069	416.0994(M)
26 Benzo(g,h,i)perylene	276	8.657	8.646	(1.128)	413463	6.26180	418.8491

QC Flag Legend

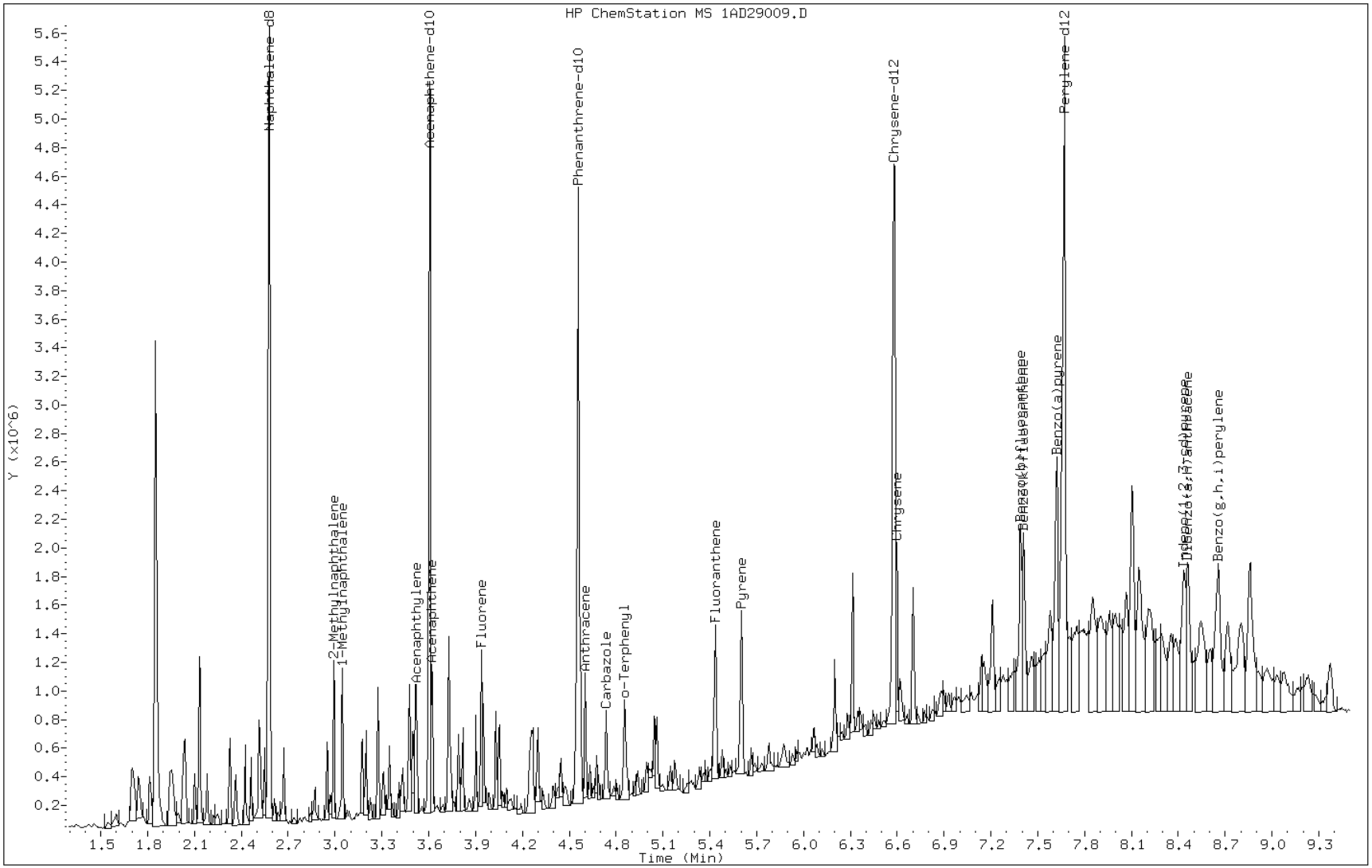
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AD29009.D

Date: 29-APR-2013 14:09

Client ID: Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-c msd Operator: SCC



Manual Integration Report

Data File: 1AD29009.D
Inj. Date and Time: 29-APR-2013 14:09
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/02/2013

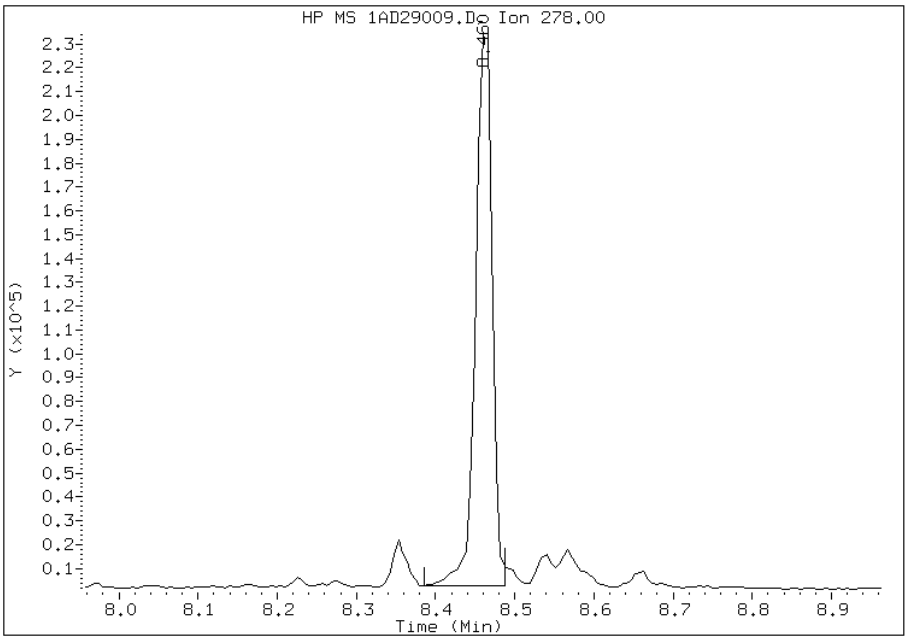
Processing Integration Results

RT: 8.46

Response: 335194

Amount: 6

Conc: 408



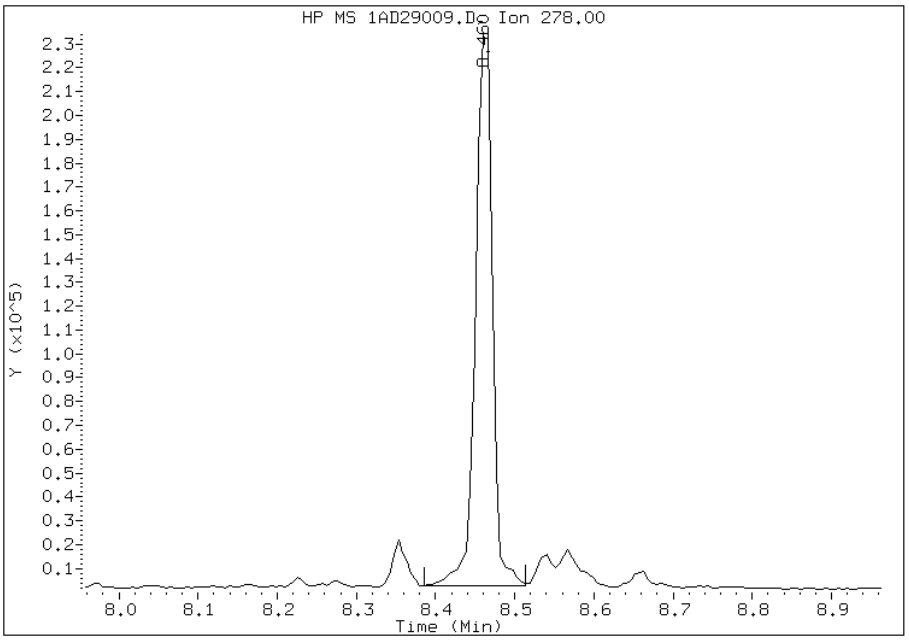
Manual Integration Results

RT: 8.46

Response: 341480

Amount: 6

Conc: 416



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29009.D
Inj. Date and Time: 29-APR-2013 14:09
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

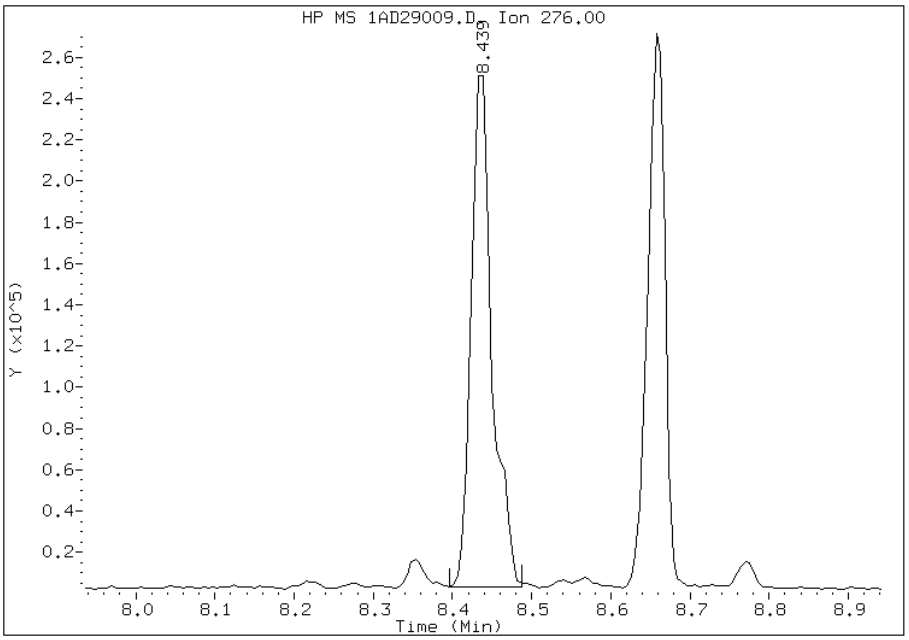
Processing Integration Results

RT: 8.44

Response: 450201

Amount: 8

Conc: 510



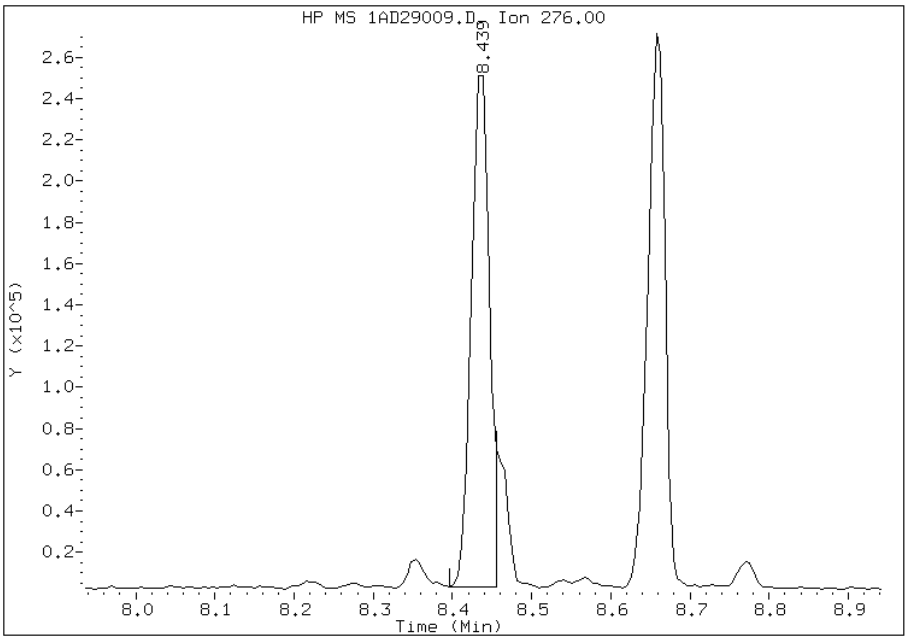
Manual Integration Results

RT: 8.44

Response: 396664

Amount: 7

Conc: 450



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:28
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Instrument ID: BSMA5973 Start Date: 04/26/2013 09:20

Analysis Batch Number: 136892 End Date: 04/26/2013 19:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/26/2013 09:20	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 09:35	1		DB-5MS 250(um)
DFTPP 660-136892/2		04/26/2013 09:50	1	1AD26002.D	DB-5MS 250(um)
IC 660-136892/3		04/26/2013 10:03	1	1AD26003.D	DB-5MS 250(um)
IC 660-136892/4		04/26/2013 10:18	1	1AD26004.D	DB-5MS 250(um)
IC 660-136892/5		04/26/2013 10:33	1	1AD26005.D	DB-5MS 250(um)
IC 660-136892/6		04/26/2013 10:48	1	1AD26006.D	DB-5MS 250(um)
ICIS 660-136892/7		04/26/2013 11:03	1	1AD26007.D	DB-5MS 250(um)
IC 660-136892/8		04/26/2013 11:19	1	1AD26008.D	DB-5MS 250(um)
IC 660-136892/9		04/26/2013 11:34	1	1AD26009.D	DB-5MS 250(um)
ICV 660-136892/10		04/26/2013 11:49	1	1AD26010.D	DB-5MS 250(um)
ZZZZZ		04/26/2013 13:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 14:04	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 14:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 14:34	4		DB-5MS 250(um)
ZZZZZ		04/26/2013 14:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 15:04	4		DB-5MS 250(um)
ZZZZZ		04/26/2013 15:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 15:34	4		DB-5MS 250(um)
ZZZZZ		04/26/2013 15:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 16:04	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 16:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 16:34	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 16:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 17:04	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 17:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 17:34	4		DB-5MS 250(um)
ZZZZZ		04/26/2013 17:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 18:04	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 18:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 18:34	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 18:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 19:04	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 19:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 19:35	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Instrument ID: BSMA5973 Start Date: 04/29/2013 11:42

Analysis Batch Number: 136961 End Date: 04/29/2013 19:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/29/2013 11:42	1		DB-5MS 250(um)
ZZZZZ		04/29/2013 11:57	1		DB-5MS 250(um)
DFTPP 660-136961/2		04/29/2013 12:12	1	1AD29002.D	DB-5MS 250(um)
CCVIS 660-136961/3		04/29/2013 12:29	1	1AD29003.D	DB-5MS 250(um)
ZZZZZ		04/29/2013 12:50	1		DB-5MS 250(um)
MB 660-136855/1-A		04/29/2013 13:08	1	1AD29005.D	DB-5MS 250(um)
LCS 660-136855/2-A		04/29/2013 13:24	1	1AD29006.D	DB-5MS 250(um)
680-89695-4	CV1329A-CS	04/29/2013 13:39	1	1AD29007.D	DB-5MS 250(um)
680-89695-4 MS	CV1329A-CS MS	04/29/2013 13:54	1	1AD29008.D	DB-5MS 250(um)
680-89695-4 MSD	CV1329A-CS MSD	04/29/2013 14:09	1	1AD29009.D	DB-5MS 250(um)
680-89695-7	CV0809A-CS	04/29/2013 14:24	1	1AD29010.D	DB-5MS 250(um)
680-89695-8	CV0809A-CSD	04/29/2013 14:39	1	1AD29011.D	DB-5MS 250(um)
680-89695-9	CV1202A-CS	04/29/2013 14:54	4	1AD29012.D	DB-5MS 250(um)
680-89695-10	CV1202B-CS	04/29/2013 15:09	4	1AD29013.D	DB-5MS 250(um)
680-89695-11	CV1202B-CSD	04/29/2013 15:24	4	1AD29014.D	DB-5MS 250(um)
680-89695-12	CV0147A-CS-SP	04/29/2013 15:39	1	1AD29015.D	DB-5MS 250(um)
680-89695-13	CV0427A-CS-SP	04/29/2013 15:54	4	1AD29016.D	DB-5MS 250(um)
680-89695-14	CV0427B-CS-SP	04/29/2013 16:09	4	1AD29017.D	DB-5MS 250(um)
680-89695-15	CV0718A-CS-SP	04/29/2013 16:24	4	1AD29018.D	DB-5MS 250(um)
680-89695-16	CV0718B-CS-SP	04/29/2013 16:39	4	1AD29019.D	DB-5MS 250(um)
680-89695-17	HP0157A-CS-SP	04/29/2013 16:54	1	1AD29020.D	DB-5MS 250(um)
680-89695-18	CV0575A-CS-SP	04/29/2013 17:09	1	1AD29021.D	DB-5MS 250(um)
680-89695-19	CV0927A-CS-SP	04/29/2013 17:24	1	1AD29022.D	DB-5MS 250(um)
680-89695-20	CV0927B-CS-SP	04/29/2013 17:39	1	1AD29023.D	DB-5MS 250(um)
ZZZZZ		04/29/2013 17:55	1		DB-5MS 250(um)
ZZZZZ		04/29/2013 18:10	4		DB-5MS 250(um)
ZZZZZ		04/29/2013 18:25	1		DB-5MS 250(um)
ZZZZZ		04/29/2013 18:40	4		DB-5MS 250(um)
ZZZZZ		04/29/2013 18:55	4		DB-5MS 250(um)
ZZZZZ		04/29/2013 19:10	1		DB-5MS 250(um)
ZZZZZ		04/29/2013 19:25	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Instrument ID: BSMD5973 Start Date: 04/04/2013 11:04

Analysis Batch Number: 136164 End Date: 04/04/2013 20:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/04/2013 11:04	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 11:30	1		DB-5MS 250(um)
DFTPP 660-136164/2		04/04/2013 11:55	1		DB-5MS 250(um)
DFTPP 660-136164/3		04/04/2013 12:15	1	1DD04003.D	DB-5MS 250(um)
CCVIS 660-136164/4		04/04/2013 12:34	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 13:02	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 13:26	1		DB-5MS 250(um)
IC 660-136164/15		04/04/2013 13:49	1	1DD04007.D	DB-5MS 250(um)
IC 660-136164/16		04/04/2013 14:11	1	1DD04008.D	DB-5MS 250(um)
IC 660-136164/17		04/04/2013 14:34	1	1DD04009.D	DB-5MS 250(um)
IC 660-136164/18		04/04/2013 14:57	1	1DD04010.D	DB-5MS 250(um)
ICIS 660-136164/19		04/04/2013 15:19	1	1DD04011.D	DB-5MS 250(um)
IC 660-136164/20		04/04/2013 15:42	1	1DD04012.D	DB-5MS 250(um)
IC 660-136164/21		04/04/2013 16:04	1	1DD04013.D	DB-5MS 250(um)
ICV 660-136164/22		04/04/2013 16:27	1	1DD04014.D	DB-5MS 250(um)
ZZZZZ		04/04/2013 16:52	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 17:18	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 17:44	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 18:09	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 18:35	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 19:01	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 19:27	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 19:51	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 20:13	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 20:36	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Instrument ID: BSMD5973 Start Date: 04/29/2013 09:44

Analysis Batch Number: 136926 End Date: 04/29/2013 20:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/29/2013 09:44	1		DB-5MS 250(um)
ZZZZZ		04/29/2013 10:11	1		DB-5MS 250(um)
DFTPP 660-136926/2		04/29/2013 10:35	1	1DD29002.D	DB-5MS 250(um)
CCVIS 660-136926/3		04/29/2013 10:53	1	1DD29003.D	DB-5MS 250(um)
ZZZZZ		04/29/2013 11:24	1		DB-5MS 250(um)
MB 660-136834/1-A		04/29/2013 12:01	1	1DD29005.D	DB-5MS 250(um)
LCS 660-136834/2-A		04/29/2013 12:24	1	1DD29006.D	DB-5MS 250(um)
ZZZZZ		04/29/2013 12:46	1		DB-5MS 250(um)
ZZZZZ		04/29/2013 13:09	4		DB-5MS 250(um)
ZZZZZ		04/29/2013 13:31	1		DB-5MS 250(um)
ZZZZZ		04/29/2013 13:54	1		DB-5MS 250(um)
ZZZZZ		04/29/2013 14:16	1		DB-5MS 250(um)
ZZZZZ		04/29/2013 14:39	1		DB-5MS 250(um)
ZZZZZ		04/29/2013 15:02	1		DB-5MS 250(um)
ZZZZZ		04/29/2013 15:24	4		DB-5MS 250(um)
ZZZZZ		04/29/2013 15:47	1		DB-5MS 250(um)
ZZZZZ		04/29/2013 16:09	4		DB-5MS 250(um)
ZZZZZ		04/29/2013 16:32	4		DB-5MS 250(um)
ZZZZZ		04/29/2013 16:54	1		DB-5MS 250(um)
ZZZZZ		04/29/2013 17:17	1		DB-5MS 250(um)
ZZZZZ		04/29/2013 17:40	4		DB-5MS 250(um)
680-89516-A-21-B MS		04/29/2013 18:02	4	1DD29021.D	DB-5MS 250(um)
680-89516-A-21-C MSD		04/29/2013 18:25	4	1DD29022.D	DB-5MS 250(um)
680-89695-1	FM0323A-CS	04/29/2013 18:47	4	1DD29023.D	DB-5MS 250(um)
680-89695-2	FM0323A-CSD	04/29/2013 19:10	1	1DD29024.D	DB-5MS 250(um)
680-89695-3	FM0323B-CS	04/29/2013 19:32	4	1DD29025.D	DB-5MS 250(um)
680-89695-5	CV0773A-CS	04/29/2013 19:55	1	1DD29026.D	DB-5MS 250(um)
680-89695-6	CV0773B-CS	04/29/2013 20:17	4	1DD29027.D	DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Batch Number: 136834 Batch Start Date: 04/25/13 12:29 Batch Analyst:

Batch Method: 3546 Batch End Date: 04/26/13 11:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179
MB 660-136834/1		3546, 8270C LL		14.95 g	1 mL		1 mL
LCS 660-136834/2		3546, 8270C LL		14.95 g	1 mL	1 mL	1 mL
680-89516-A-21 MS		3546, 8270C LL	T	14.92 g	1 mL	1 mL	1 mL
680-89516-A-21 MSD		3546, 8270C LL	T	14.92 g	1 mL	1 mL	1 mL
680-89695-A-1	FM0323A-CS	3546, 8270C LL	T	15.03 g	1 mL		1 mL
680-89695-A-2	FM0323A-CSD	3546, 8270C LL	T	15.37 g	1 mL		1 mL
680-89695-A-3	FM0323B-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL
680-89695-A-5	CV0773A-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL
680-89695-A-6	CV0773B-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL

Batch Notes	
Acetone Lot #	EX-ACETON BOT 52
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 56
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 56
MeCl2/Acetone Lot #	DCM/ACETON 73
Microwave Start Time	14:20 4/25/13
Microwave Stop Time	14:55 4/25/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	EX-OTTOWA SAND 16
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT 179
Water Bath ID	TURBOVAP2 #1-3
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.: 680-89695-1

SDG No.: 68089695-1

Batch Number: 136855 Batch Start Date: 04/26/13 07:28 Batch Analyst:

Batch Method: 3546 Batch End Date: 04/26/13 15:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179
MB 660-136855/1		3546, 8270C LL		15.03 g	1 mL		1 mL
LCS 660-136855/2		3546, 8270C LL		15.24 g	1 mL	1 mL	1 mL
680-89695-A-4	CV1329A-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL
680-89695-A-4 MS	CV1329A-CS	3546, 8270C LL	T	14.95 g	1 mL	1 mL	1 mL
680-89695-A-4 MSD	CV1329A-CS	3546, 8270C LL	T	14.95 g	1 mL	1 mL	1 mL
680-89695-A-7	CV0809A-CS	3546, 8270C LL	T	14.93 g	1 mL		1 mL
680-89695-A-8	CV0809A-CSD	3546, 8270C LL	T	15.07 g	1 mL		1 mL
680-89695-A-9	CV1202A-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL
680-89695-A-10	CV1202B-CS	3546, 8270C LL	T	15.04 g	1 mL		1 mL
680-89695-A-11	CV1202B-CSD	3546, 8270C LL	T	15.08 g	1 mL		1 mL
680-89695-A-12	CV0147A-CS-SP	3546, 8270C LL	T	15.02 g	1 mL		1 mL
680-89695-A-13	CV0427A-CS-SP	3546, 8270C LL	T	15.28 g	1 mL		1 mL
680-89695-A-14	CV0427B-CS-SP	3546, 8270C LL	T	15.03 g	1 mL		1 mL
680-89695-A-15	CV0718A-CS-SP	3546, 8270C LL	T	15.01 g	1 mL		1 mL
680-89695-A-16	CV0718B-CS-SP	3546, 8270C LL	T	15.05 g	1 mL		1 mL
680-89695-A-17	HP0157A-CS-SP	3546, 8270C LL	T	15.05 g	1 mL		1 mL
680-89695-A-18	CV0575A-CS-SP	3546, 8270C LL	T	15.30 g	1 mL		1 mL
680-89695-A-19	CV0927A-CS-SP	3546, 8270C LL	T	14.98 g	1 mL		1 mL
680-89695-A-20	CV0927B-CS-SP	3546, 8270C LL	T	15.11 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

George, Abraham

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Batch Number: 136855 Batch Start Date: 04/26/13 07:28 Batch Analyst:

Batch Method: 3546 Batch End Date: 04/26/13 15:45

Batch Notes	
Acetone Lot #	EX-ACETON BOT 52
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 56
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 56
MeCl2/Acetone Lot #	DCM/ACETON 73/74
Microwave Start Time	9:00 4/26/13
Microwave Stop Time	9:35 4/26/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	EX-OTTOWA SAND 16
Person's name who did the prep	AG
SOP Number	TP-EX014
Person who witnessed spiking	SAUREL
Surrogate Lot Number	EXLLSURINT 179
Water Bath ID	TURBOVAP2 #1-3
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

George, Abraham

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89695-1

SDG No.: 68089695-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
FM0323A-CS	680-89695-1
FM0323A-CSD	680-89695-2
FM0323B-CS	680-89695-3
CV1329A-CS	680-89695-4
CV0773A-CS	680-89695-5
CV0773B-CS	680-89695-6
CV0809A-CS	680-89695-7
CV0809A-CSD	680-89695-8
CV1202A-CS	680-89695-9
CV1202B-CS	680-89695-10
CV1202B-CSD	680-89695-11
CV0147A-CS-SP	680-89695-12
CV0427A-CS-SP	680-89695-13
CV0427B-CS-SP	680-89695-14
CV0718A-CS-SP	680-89695-15
CV0718B-CS-SP	680-89695-16
HP0157A-CS-SP	680-89695-17
CV0575A-CS-SP	680-89695-18
CV0927A-CS-SP	680-89695-19
CV0927B-CS-SP	680-89695-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89695-1

SDG Number: 68089695-1

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: 680-89695-1

SDG Number: 68089695-1

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.: 680-89695-1

SDG No.: 68089695-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/29/2013 06:14 End Date: 04/29/2013 06:14

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			06:14																				
ZZZZZZ			06:14																				
ZZZZZZ			06:14																				
ZZZZZZ			06:14																				
ZZZZZZ			06:14																				
ZZZZZZ			06:14																				
ZZZZZZ			06:14																				
ZZZZZZ			06:14																				
ZZZZZZ			06:14																				
ZZZZZZ			06:14																				
680-89695-16	1	T	06:14	X																			
680-89695-20	1	T	06:14	X																			
ZZZZZZ			06:14																				
680-89695-13	1	T	06:14	X																			
680-89695-1	1	T	06:14	X																			
680-89695-2	1	T	06:14	X																			
680-89695-6	1	T	06:14	X																			
680-89695-5	1	T	06:14	X																			
ZZZZZZ			06:14																				
680-89695-3	1	T	06:14	X																			
ZZZZZZ			06:14																				
680-89695-9	1	T	06:14	X																			
ZZZZZZ			06:14																				
680-89695-14	1	T	06:14	X																			
ZZZZZZ			06:14																				
680-89695-7	1	T	06:14	X																			
680-89695-19	1	T	06:14	X																			
ZZZZZZ			06:14																				
680-89695-17	1	T	06:14	X																			
680-89695-12	1	T	06:14	X																			
680-89695-11	1	T	06:14	X																			
680-89695-15	1	T	06:14	X																			
680-89695-10	1	T	06:14	X																			
680-89695-18	1	T	06:14	X																			
ZZZZZZ			06:14																				
680-89695-8	1	T	06:14	X																			
ZZZZZZ			06:14																				
ZZZZZZ			06:14																				
680-89695-4	1	T	06:14	X																			
680-89695-4 MS	1	T	06:14	X																			
680-89695-4 MSD	1	T	06:14	X																			
ZZZZZZ			06:14																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/29/2013 06:14 End Date: 04/29/2013 06:14

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			06:14																				
ZZZZZZ			06:14																				
ZZZZZZ			06:14																				
ZZZZZZ			06:14																				

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-1

SDG No.: 68089695-1

Batch Number: 136902 Batch Start Date: 04/29/13 06:14 Batch Analyst:

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry
680-89695-A-16	CV0718B-CS-SP	Moisture	T	11	0 g	4.46 g	3.68 g
680-89695-A-20	CV0927B-CS-SP	Moisture	T	12	0 g	4.33 g	3.10 g
680-89695-A-13	CV0427A-CS-SP	Moisture	T	14	0 g	4.35 g	3.41 g
680-89695-A-1	FM0323A-CS	Moisture	T	15	0 g	4.65 g	4.02 g
680-89695-A-2	FM0323A-CSD	Moisture	T	16	0 g	4.68 g	3.73 g
680-89695-A-6	CV0773B-CS	Moisture	T	17	0 g	4.31 g	3.36 g
680-89695-A-5	CV0773A-CS	Moisture	T	18	0 g	4.55 g	3.64 g
680-89695-A-3	FM0323B-CS	Moisture	T	20	0 g	4.72 g	3.84 g
680-89695-A-9	CV1202A-CS	Moisture	T	22	0 g	4.50 g	3.64 g
680-89695-A-14	CV0427B-CS-SP	Moisture	T	24	0 g	4.98 g	3.79 g
680-89695-A-7	CV0809A-CS	Moisture	T	26	0 g	4.48 g	3.52 g
680-89695-A-19	CV0927A-CS-SP	Moisture	T	27	0 g	4.71 g	3.76 g
680-89695-A-17	HP0157A-CS-SP	Moisture	T	29	0 g	5.19 g	3.84 g
680-89695-A-12	CV0147A-CS-SP	Moisture	T	30	0 g	4.79 g	4.00 g
680-89695-A-11	CV1202B-CSD	Moisture	T	31	0 g	4.92 g	3.80 g
680-89695-A-15	CV0718A-CS-SP	Moisture	T	32	0 g	4.91 g	3.97 g
680-89695-A-10	CV1202B-CS	Moisture	T	33	0 g	4.38 g	3.32 g
680-89695-A-18	CV0575A-CS-SP	Moisture	T	34	0 g	4.15 g	3.30 g
680-89695-A-8	CV0809A-CSD	Moisture	T	36	0 g	4.78 g	3.77 g
680-89695-A-4	CV1329A-CS	Moisture	T	39	0 g	4.81 g	4.03 g
680-89695-A-4 MS	CV1329A-CS	Moisture	T	39	0 g	4.81 g	4.03 g
680-89695-A-4 MSD	CV1329A-CS	Moisture	T	39	0 g	4.81 g	4.03 g

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.29.13

Basis	Basis Description
T	Total/NA

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

Moisture

Galio, Andrew

Shipping and Receiving Documents

Serial Number 64688

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

Alternate Laboratory Name/Location: Test Am Tampa

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS	PAGE	OF
35th Ave Removal	2005148-1356	AL			1	3

(b) (6)

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○ 10 day TAT

DATE DUE _____

COMPANY CONTRACTING THIS WORK (if applicable)

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	RCRA 8 Metals								REMARKS
4-22-13	1330	FM0323A-CS	C		X			X									
	1330	FM0323A-CSD	C		X			X									
	1340	FM0323B-CS	C		X			X									
	1455	CV1329A-CS	C		X			X	X								
4-23-13	0925	CV0773A-CS	C		X			X									
	0935	CV0773B-CS	C		X			X									
	0845	CV0809A-CS	C		X			X									
	0845	CV0809A-CSD	C		X			X									
	1010	CV1202A-CS	C		X			X									
	1020	CV1202B-CS	C		X			X									
	1020	CV1202B-CSD	C		X			X									
	1033	CV0147A-CS-SP	C		X			X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-24-13	1330						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]	4-25-13	0840						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-89695	LABORATORY REMARKS 5.8 CU-07

TAL8240-680 (1003)

Serial Number 64615

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

Alternate Laboratory Name/Location: Test Am - Tampa

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal	2005148-1356	AL	2	3

(b) (6)

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○ 10 day TAT

DATE DUE _____

COMPANY CONTRACTING THIS WORK (if applicable)

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, ...)	1L PAH	RCRA 8 Metals								REMARKS
								PRESERVATIVE									
								NUMBER OF CONTAINERS SUBMITTED									
4-23-13	0853	CV0427A -CS-SP	C		X			X									
	0903	CV0427B - CS SP	C		X			X	X								
	0931	CV0718A -CS-SP	C		X			X									
	0944	CV0718B -CS -SP	C		X			X									
	1246	HP0157A -CS-SP	C		X			X									
	1322	CV0575A-CS-SP	C		X			X	X								
	1351	CV0927A-CS-SP	C		X			X									
	1403	CV0927B-CS-SP	C		X			X									
	1445	CV1158A-CS	C		X			X									
	1500	CV1158B-CS	C		X			X									
	1310	CV1235A-CS	C		X			X									
	1320	CV1235B-CS	C		X			X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-24-13	1330						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]	4-25-13	0840						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-89695	LABORATORY REMARKS

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-1
SDG Number: 68089695-1

Login Number: 89695
List Number: 1
Creator: Daughtry, Beth

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-1
SDG Number: 68089695-1

Login Number: 89695
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 04/25/13 01:52 PM

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

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: 680-89695-1
TestAmerica Sample Delivery Group: 68089695-1
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:
5/6/2013 4:37:57 PM
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

Visit us at: www.testamericainc.com

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

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

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

Job ID: 680-89695-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89695-1

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 04/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0323A-CS (680-89695-1), FM0323A-CSD (680-89695-2), FM0323B-CS (680-89695-3), CV1329A-CS (680-89695-4), CV0773A-CS (680-89695-5), CV0773B-CS (680-89695-6), CV0809A-CS (680-89695-7), CV0809A-CSD (680-89695-8), CV1202A-CS (680-89695-9), CV1202B-CS (680-89695-10), CV1202B-CSD (680-89695-11), CV0147A-CS-SP (680-89695-12), CV0427A-CS-SP (680-89695-13), CV0427B-CS-SP (680-89695-14), CV0718A-CS-SP (680-89695-15), CV0718B-CS-SP (680-89695-16), HP0157A-CS-SP (680-89695-17), CV0575A-CS-SP (680-89695-18), CV0927A-CS-SP (680-89695-19) and CV0927B-CS-SP (680-89695-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/25/2013 and 04/26/2013 and analyzed on 04/29/2013.

Samples FM0323A-CS (680-89695-1)[4X], FM0323B-CS (680-89695-3)[4X], CV0773B-CS (680-89695-6)[4X], CV1202A-CS (680-89695-9)[4X], CV1202B-CS (680-89695-10)[4X], CV1202B-CSD (680-89695-11)[4X], CV0427A-CS-SP (680-89695-13)[4X], CV0427B-CS-SP (680-89695-14)[4X], CV0718A-CS-SP (680-89695-15)[4X] and CV0718B-CS-SP (680-89695-16)[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 680-89516-21 in batch 660-136926. Fluoranthene, Phenanthrene and Pyrene exceeded the rpd limit.

Several analytes recovered outside the recovery criteria low for the MS/MSD of sample CV1329A-CS (680-89695-4) in batch 660-136961.

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: 680-89695-1
SDG: 68089695-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89695-1	FM0323A-CS	Solid	04/22/13 13:30	04/25/13 08:40
680-89695-2	FM0323A-CSD	Solid	04/22/13 13:30	04/25/13 08:40
680-89695-3	FM0323B-CS	Solid	04/22/13 13:40	04/25/13 08:40
680-89695-4	CV1329A-CS	Solid	04/22/13 14:55	04/25/13 08:40
680-89695-5	CV0773A-CS	Solid	04/23/13 09:25	04/25/13 08:40
680-89695-6	CV0773B-CS	Solid	04/23/13 09:35	04/25/13 08:40
680-89695-7	CV0809A-CS	Solid	04/23/13 08:45	04/25/13 08:40
680-89695-8	CV0809A-CSD	Solid	04/23/13 08:45	04/25/13 08:40
680-89695-9	CV1202A-CS	Solid	04/23/13 10:10	04/25/13 08:40
680-89695-10	CV1202B-CS	Solid	04/23/13 10:20	04/25/13 08:40
680-89695-11	CV1202B-CSD	Solid	04/23/13 10:20	04/25/13 08:40
680-89695-12	CV0147A-CS-SP	Solid	04/23/13 10:33	04/25/13 08:40
680-89695-13	CV0427A-CS-SP	Solid	04/23/13 08:53	04/25/13 08:40
680-89695-14	CV0427B-CS-SP	Solid	04/23/13 09:03	04/25/13 08:40
680-89695-15	CV0718A-CS-SP	Solid	04/23/13 09:31	04/25/13 08:40
680-89695-16	CV0718B-CS-SP	Solid	04/23/13 09:44	04/25/13 08:40
680-89695-17	HP0157A-CS-SP	Solid	04/23/13 12:46	04/25/13 08:40
680-89695-18	CV0575A-CS-SP	Solid	04/23/13 13:22	04/25/13 08:40
680-89695-19	CV0927A-CS-SP	Solid	04/23/13 13:51	04/25/13 08:40
680-89695-20	CV0927B-CS-SP	Solid	04/23/13 14:03	04/25/13 08:40

Method Summary

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

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: 680-89695-1
SDG: 68089695-1

Qualifiers

GC/MS Semi VOA

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

Glossary

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

Client Sample Results

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: FM0323A-CS

Lab Sample ID: 680-89695-1
Date Collected: 04/22/13 13:30
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	460	U	460	92	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Acenaphthylene	180	U	180	23	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Anthracene	39	U	39	19	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Benzo[a]anthracene	**71**		37	18	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Benzo[a]pyrene	**58**		48	24	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Benzo[b]fluoranthene	**120**		56	28	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Benzo[g,h,i]perylene	**43**	**J**	92	20	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Benzo[k]fluoranthene	**31**	**J**	37	17	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Chrysene	**140**		42	21	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Dibenz(a,h)anthracene	**24**	**J**	92	19	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Fluoranthene	**94**		92	18	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Fluorene	92	U	92	19	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Indeno[1,2,3-cd]pyrene	92	U	92	33	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
1-Methylnaphthalene	**93**	**J**	180	20	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
2-Methylnaphthalene	**100**	**J**	180	33	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Naphthalene	**55**	**J**	180	20	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Phenanthrene	**120**		37	18	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4
Pyrene	**81**	**J**	92	17	ug/Kg	☼	04/25/13 12:29	04/29/13 18:47	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*04/25/13 12:29*	*04/29/13 18:47*	*4*

Client Sample ID: FM0323A-CSD

Lab Sample ID: 680-89695-2
Date Collected: 04/22/13 13:30
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Acenaphthylene	**9.0**	**J**	49	6.1	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Anthracene	**18**		10	5.1	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Benzo[a]anthracene	**74**		9.8	4.8	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Benzo[a]pyrene	**61**		13	6.4	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Benzo[b]fluoranthene	**130**		15	7.5	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Benzo[g,h,i]perylene	**43**		24	5.4	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Benzo[k]fluoranthene	**37**		9.8	4.4	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Chrysene	**130**		11	5.5	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Dibenz(a,h)anthracene	**16**	**J**	24	5.0	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Fluoranthene	**100**		24	4.9	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Fluorene	24	U	24	5.0	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Indeno[1,2,3-cd]pyrene	**28**		24	8.7	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
1-Methylnaphthalene	**89**		49	5.4	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
2-Methylnaphthalene	**97**		49	8.7	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Naphthalene	**70**		49	5.4	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Phenanthrene	**130**		9.8	4.8	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1
Pyrene	**86**		24	4.5	ug/Kg	☼	04/25/13 12:29	04/29/13 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*04/25/13 12:29*	*04/29/13 19:10*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: FM0323B-CS

Lab Sample ID: 680-89695-3
Date Collected: 04/22/13 13:40
Matrix: Solid
Date Received: 04/25/13 08:40
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	490	U	490	98	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Anthracene	41	U	41	21	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Benzo[a]anthracene	**86**		39	19	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Benzo[a]pyrene	**79**		51	25	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Benzo[b]fluoranthene	**180**		60	30	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Benzo[g,h,i]perylene	**69**	**J**	98	22	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Benzo[k]fluoranthene	**37**	**J**	39	18	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Chrysene	**140**		44	22	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Dibenz(a,h)anthracene	98	U	98	20	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Fluoranthene	**87**	**J**	98	20	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Fluorene	98	U	98	20	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Indeno[1,2,3-cd]pyrene	**51**	**J**	98	35	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
1-Methylnaphthalene	**49**	**J**	200	22	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
2-Methylnaphthalene	**55**	**J**	200	35	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Naphthalene	**46**	**J**	200	22	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Phenanthrene	**95**		39	19	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4
Pyrene	**74**	**J**	98	18	ug/Kg	☼	04/25/13 12:29	04/29/13 19:32	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*04/25/13 12:29*	*04/29/13 19:32*	*4*

Client Sample ID: CV1329A-CS

Lab Sample ID: 680-89695-4
Date Collected: 04/22/13 14:55
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Acenaphthylene	**19**	**J**	48	6.0	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Anthracene	**32**		10	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Benzo[a]anthracene	**160**	**F**	9.6	4.7	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Benzo[a]pyrene	**140**	**F**	12	6.2	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Benzo[b]fluoranthene	**230**		15	7.3	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Benzo[g,h,i]perylene	**140**		24	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Benzo[k]fluoranthene	**87**		9.6	4.3	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Chrysene	**170**		11	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Dibenz(a,h)anthracene	**44**		24	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Fluoranthene	**250**	**F**	24	4.8	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Fluorene	**9.0**	**J**	24	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Indeno[1,2,3-cd]pyrene	**130**		24	8.5	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
1-Methylnaphthalene	**86**		48	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
2-Methylnaphthalene	**110**		48	8.5	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Naphthalene	**110**		48	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Phenanthrene	**160**		9.6	4.7	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1
Pyrene	**220**	**F**	24	4.4	ug/Kg	☼	04/26/13 07:28	04/29/13 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*43*		*30 - 130*	*04/26/13 07:28*	*04/29/13 13:39*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: CV0773A-CS

Lab Sample ID: 680-89695-5
Date Collected: 04/23/13 09:25
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 80.0

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	☼	04/25/13 12:29	04/29/13 19:55	1
Acenaphthylene	9.0	J	50	6.3	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Anthracene	18		11	5.3	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Benzo[a]anthracene	71		10	4.9	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Benzo[a]pyrene	66		13	6.5	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Benzo[b]fluoranthene	130		15	7.7	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Benzo[g,h,i]perylene	46		25	5.5	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Benzo[k]fluoranthene	39		10	4.5	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Chrysene	120		11	5.6	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Dibenz(a,h)anthracene	15	J	25	5.1	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Fluoranthene	110		25	5.0	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Fluorene	5.1	J	25	5.1	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Indeno[1,2,3-cd]pyrene	32		25	8.9	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
1-Methylnaphthalene	46	J	50	5.5	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
2-Methylnaphthalene	52		50	8.9	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Naphthalene	50		50	5.5	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Phenanthrene	96		10	4.9	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1
Pyrene	90		25	4.6	ug/Kg	☼	04/25/13 12:29	04/29/13 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*45*		*30 - 130*	*04/25/13 12:29*	*04/29/13 19:55*	*1*

Client Sample ID: CV0773B-CS

Lab Sample ID: 680-89695-6
Date Collected: 04/23/13 09:35
Matrix: Solid
Date Received: 04/25/13 08:40
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	☼	04/25/13 12:29	04/29/13 20:17	4
Acenaphthylene	33	J	210	26	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Anthracene	46		43	22	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Benzo[a]anthracene	210		41	20	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Benzo[a]pyrene	170		53	27	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Benzo[b]fluoranthene	380		63	31	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Benzo[g,h,i]perylene	110		100	23	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Benzo[k]fluoranthene	96		41	19	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Chrysene	420		46	23	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Dibenz(a,h)anthracene	48	J	100	21	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Fluoranthene	270		100	21	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Fluorene	100	U	100	21	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Indeno[1,2,3-cd]pyrene	77	J	100	37	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
1-Methylnaphthalene	250		210	23	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
2-Methylnaphthalene	220		210	37	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Naphthalene	140	J	210	23	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Phenanthrene	300		41	20	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4
Pyrene	230		100	19	ug/Kg	☼	04/25/13 12:29	04/29/13 20:17	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*30 - 130*	*04/25/13 12:29*	*04/29/13 20:17*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: CV0809A-CS

Lab Sample ID: 680-89695-7
Date Collected: 04/23/13 08:45
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	26	J	130	26	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Acenaphthylene	33	J	51	6.4	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Anthracene	130		11	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Benzo[a]anthracene	430		10	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Benzo[a]pyrene	370		13	6.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Benzo[b]fluoranthene	520		16	7.8	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Benzo[g,h,i]perylene	290		26	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Benzo[k]fluoranthene	210		10	4.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Chrysene	400		12	5.8	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Dibenz(a,h)anthracene	89		26	5.2	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Fluoranthene	910		26	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Fluorene	30		26	5.2	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Indeno[1,2,3-cd]pyrene	310		26	9.1	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
1-Methylnaphthalene	35	J	51	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
2-Methylnaphthalene	33	J	51	9.1	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Naphthalene	38	J	51	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Phenanthrene	590		10	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1
Pyrene	720		26	4.7	ug/Kg	☼	04/26/13 07:28	04/29/13 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*33*		*30 - 130*	*04/26/13 07:28*	*04/29/13 14:24*	*1*

Client Sample ID: CV0809A-CSD

Lab Sample ID: 680-89695-8
Date Collected: 04/23/13 08:45
Matrix: Solid
Date Received: 04/25/13 08:40
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	☼	04/26/13 07:28	04/29/13 14:39	1
Acenaphthylene	60		50	6.3	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Anthracene	79		11	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Benzo[a]anthracene	370		10	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Benzo[a]pyrene	370		13	6.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Benzo[b]fluoranthene	610		15	7.7	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Benzo[g,h,i]perylene	330		25	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Benzo[k]fluoranthene	180		10	4.5	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Chrysene	410		11	5.7	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Dibenz(a,h)anthracene	98		25	5.2	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Fluoranthene	560		25	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Fluorene	14	J	25	5.2	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Indeno[1,2,3-cd]pyrene	330		25	9.0	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
1-Methylnaphthalene	62		50	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
2-Methylnaphthalene	60		50	9.0	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Naphthalene	58		50	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Phenanthrene	230		10	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1
Pyrene	460		25	4.7	ug/Kg	☼	04/26/13 07:28	04/29/13 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*04/26/13 07:28*	*04/29/13 14:39*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: CV1202A-CS

Lab Sample ID: 680-89695-9
Date Collected: 04/23/13 10:10
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	99	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Acenaphthylene	**29**	**J**	200	25	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Anthracene	**44**		42	21	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Benzo[a]anthracene	**150**		40	19	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Benzo[a]pyrene	**130**		52	26	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Benzo[b]fluoranthene	**220**		61	30	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Benzo[g,h,i]perylene	**150**		99	22	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Benzo[k]fluoranthene	**80**		40	18	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Chrysene	**190**		45	22	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Dibenz(a,h)anthracene	**39**	**J**	99	20	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Fluoranthene	**200**		99	20	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Fluorene	99	U	99	20	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Indeno[1,2,3-cd]pyrene	**130**		99	35	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
1-Methylnaphthalene	**130**	**J**	200	22	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
2-Methylnaphthalene	**160**	**J**	200	35	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Naphthalene	**110**	**J**	200	22	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Phenanthrene	**220**		40	19	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4
Pyrene	**170**		99	18	ug/Kg	☼	04/26/13 07:28	04/29/13 14:54	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*04/26/13 07:28*	*04/29/13 14:54*	*4*

Client Sample ID: CV1202B-CS

Lab Sample ID: 680-89695-10
Date Collected: 04/23/13 10:20
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 75.8

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	☼	04/26/13 07:28	04/29/13 15:09	4
Acenaphthylene	**96**	**J**	210	26	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Anthracene	**180**		44	22	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Benzo[a]anthracene	**410**		42	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Benzo[a]pyrene	**390**		55	27	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Benzo[b]fluoranthene	**610**		64	32	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Benzo[g,h,i]perylene	**340**		110	23	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Benzo[k]fluoranthene	**230**		42	19	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Chrysene	**540**		47	24	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Dibenz(a,h)anthracene	**120**		110	22	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Fluoranthene	**720**		110	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Fluorene	**50**	**J**	110	22	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Indeno[1,2,3-cd]pyrene	**330**		110	37	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
1-Methylnaphthalene	**440**		210	23	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
2-Methylnaphthalene	**460**		210	37	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Naphthalene	**340**		210	23	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Phenanthrene	**700**		42	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4
Pyrene	**580**		110	19	ug/Kg	☼	04/26/13 07:28	04/29/13 15:09	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*04/26/13 07:28*	*04/29/13 15:09*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: CV1202B-CSD

Lab Sample ID: 680-89695-11
Date Collected: 04/23/13 10:20
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Acenaphthylene	60	J	210	26	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Anthracene	94		43	22	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Benzo[a]anthracene	260		41	20	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Benzo[a]pyrene	250		54	27	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Benzo[b]fluoranthene	430		63	31	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Benzo[g,h,i]perylene	220		100	23	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Benzo[k]fluoranthene	140		41	19	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Chrysene	370		46	23	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Dibenz(a,h)anthracene	60	J	100	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Fluoranthene	450		100	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Fluorene	33	J	100	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Indeno[1,2,3-cd]pyrene	210		100	37	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
1-Methylnaphthalene	270		210	23	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
2-Methylnaphthalene	310		210	37	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Naphthalene	240		210	23	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Phenanthrene	420		41	20	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4
Pyrene	360		100	19	ug/Kg	☼	04/26/13 07:28	04/29/13 15:24	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*04/26/13 07:28*	*04/29/13 15:24*	*4*

Client Sample ID: CV0147A-CS-SP

Lab Sample ID: 680-89695-12
Date Collected: 04/23/13 10:33
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Acenaphthylene	15	J	48	6.0	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Anthracene	19		10	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Benzo[a]anthracene	55		9.6	4.7	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Benzo[a]pyrene	60		12	6.2	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Benzo[b]fluoranthene	110		15	7.3	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Benzo[g,h,i]perylene	55		24	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Benzo[k]fluoranthene	29		9.6	4.3	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Chrysene	79		11	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Dibenz(a,h)anthracene	17	J	24	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Fluoranthene	69		24	4.8	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Fluorene	6.0	J	24	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Indeno[1,2,3-cd]pyrene	53		24	8.5	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
1-Methylnaphthalene	44	J	48	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
2-Methylnaphthalene	56		48	8.5	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Naphthalene	46	J	48	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Phenanthrene	78		9.6	4.7	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1
Pyrene	52		24	4.4	ug/Kg	☼	04/26/13 07:28	04/29/13 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*04/26/13 07:28*	*04/29/13 15:39*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: CV0427A-CS-SP

Lab Sample ID: 680-89695-13
Date Collected: 04/23/13 08:53
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Acenaphthylene	51	J	200	25	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Anthracene	74		42	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Benzo[a]anthracene	240		40	20	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Benzo[a]pyrene	200		52	26	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Benzo[b]fluoranthene	360		61	31	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Benzo[g,h,i]perylene	190		100	22	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Benzo[k]fluoranthene	110		40	18	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Chrysene	300		45	23	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Dibenz(a,h)anthracene	56	J	100	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Fluoranthene	310		100	20	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Fluorene	29	J	100	21	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Indeno[1,2,3-cd]pyrene	180		100	36	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
1-Methylnaphthalene	130	J	200	22	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
2-Methylnaphthalene	170	J	200	36	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Naphthalene	140	J	200	22	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Phenanthrene	300		40	20	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4
Pyrene	240		100	19	ug/Kg	☼	04/26/13 07:28	04/29/13 15:54	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*		*30 - 130*	*04/26/13 07:28*	*04/29/13 15:54*	*4*

Client Sample ID: CV0427B-CS-SP

Lab Sample ID: 680-89695-14
Date Collected: 04/23/13 09:03
Matrix: Solid
Date Received: 04/25/13 08:40
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	☼	04/26/13 07:28	04/29/13 16:09	4
Acenaphthylene	86	J	210	26	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Anthracene	130		44	22	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Benzo[a]anthracene	350		42	20	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Benzo[a]pyrene	350		55	27	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Benzo[b]fluoranthene	600		64	32	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Benzo[g,h,i]perylene	280		100	23	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Benzo[k]fluoranthene	170		42	19	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Chrysene	430		47	24	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Dibenz(a,h)anthracene	77	J	100	22	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Fluoranthene	560		100	21	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Fluorene	25	J	100	22	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Indeno[1,2,3-cd]pyrene	300		100	37	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
1-Methylnaphthalene	160	J	210	23	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
2-Methylnaphthalene	160	J	210	37	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Naphthalene	140	J	210	23	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Phenanthrene	390		42	20	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4
Pyrene	430		100	19	ug/Kg	☼	04/26/13 07:28	04/29/13 16:09	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*04/26/13 07:28*	*04/29/13 16:09*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: CV0718A-CS-SP

Lab Sample ID: 680-89695-15

Date Collected: 04/23/13 09:31
Date Received: 04/25/13 08:40

Matrix: Solid
Percent Solids: 80.9

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	99	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Acenaphthylene	66	J	200	25	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Anthracene	80		42	21	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Benzo[a]anthracene	150		40	19	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Benzo[a]pyrene	120		51	26	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Benzo[b]fluoranthene	190		60	30	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Benzo[g,h,i]perylene	110		99	22	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Benzo[k]fluoranthene	70		40	18	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Chrysene	190		44	22	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Dibenz(a,h)anthracene	31	J	99	20	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Fluoranthene	190		99	20	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Fluorene	44	J	99	20	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Indeno[1,2,3-cd]pyrene	95	J	99	35	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
1-Methylnaphthalene	210		200	22	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
2-Methylnaphthalene	320		200	35	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Naphthalene	500		200	22	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Phenanthrene	540		40	19	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4
Pyrene	240		99	18	ug/Kg	☼	04/26/13 07:28	04/29/13 16:24	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*30 - 130*	*04/26/13 07:28*	*04/29/13 16:24*	*4*

Client Sample ID: CV0718B-CS-SP

Lab Sample ID: 680-89695-16

Date Collected: 04/23/13 09:44
Date Received: 04/25/13 08:40

Matrix: Solid
Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	97	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Acenaphthylene	28	J	190	24	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Anthracene	44		41	20	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Benzo[a]anthracene	160		39	19	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Benzo[a]pyrene	130		50	25	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Benzo[b]fluoranthene	240		59	29	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Benzo[g,h,i]perylene	130		97	21	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Benzo[k]fluoranthene	57		39	17	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Chrysene	210		43	22	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Dibenz(a,h)anthracene	42	J	97	20	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Fluoranthene	200		97	19	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Fluorene	97	U	97	20	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Indeno[1,2,3-cd]pyrene	100		97	34	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
1-Methylnaphthalene	140	J	190	21	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
2-Methylnaphthalene	200		190	34	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Naphthalene	130	J	190	21	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Phenanthrene	280		39	19	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4
Pyrene	160		97	18	ug/Kg	☼	04/26/13 07:28	04/29/13 16:39	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*04/26/13 07:28*	*04/29/13 16:39*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: HP0157A-CS-SP

Lab Sample ID: 680-89695-17

Date Collected: 04/23/13 12:46
Date Received: 04/25/13 08:40

Matrix: Solid
Percent Solids: 74.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Acenaphthylene	**37**	**J**	54	6.7	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Anthracene	**46**		11	5.7	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Benzo[a]anthracene	**95**		11	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Benzo[a]pyrene	**82**		14	7.0	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Benzo[b]fluoranthene	**160**		16	8.2	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Benzo[g,h,i]perylene	**74**		27	5.9	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Benzo[k]fluoranthene	**35**		11	4.8	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Chrysene	**120**		12	6.1	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Dibenz(a,h)anthracene	**23**	**J**	27	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Fluoranthene	**150**		27	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Fluorene	**21**	**J**	27	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Indeno[1,2,3-cd]pyrene	**67**		27	9.6	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
1-Methylnaphthalene	**92**		54	5.9	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
2-Methylnaphthalene	**110**		54	9.6	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Naphthalene	**230**		54	5.9	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Phenanthrene	**220**		11	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1
Pyrene	**140**		27	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*04/26/13 07:28*	*04/29/13 16:54*	*1*

Client Sample ID: CV0575A-CS-SP

Lab Sample ID: 680-89695-18

Date Collected: 04/23/13 13:22
Date Received: 04/25/13 08:40

Matrix: Solid
Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Acenaphthylene	**83**		49	6.2	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Anthracene	**170**		10	5.2	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Benzo[a]anthracene	**330**		9.9	4.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Benzo[a]pyrene	**320**		13	6.4	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Benzo[b]fluoranthene	**610**		15	7.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Benzo[g,h,i]perylene	**230**		25	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Benzo[k]fluoranthene	**150**		9.9	4.4	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Chrysene	**400**		11	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Dibenz(a,h)anthracene	**84**		25	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Fluoranthene	**540**		25	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Fluorene	**28**		25	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Indeno[1,2,3-cd]pyrene	**260**		25	8.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
1-Methylnaphthalene	**93**		49	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
2-Methylnaphthalene	**130**		49	8.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Naphthalene	**130**		49	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Phenanthrene	**330**		9.9	4.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1
Pyrene	**450**		25	4.6	ug/Kg	☼	04/26/13 07:28	04/29/13 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*04/26/13 07:28*	*04/29/13 17:09*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: CV0927A-CS-SP

Lab Sample ID: 680-89695-19
Date Collected: 04/23/13 13:51
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Acenaphthylene	12	J	50	6.3	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Anthracene	27		11	5.3	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Benzo[a]anthracene	82		10	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Benzo[a]pyrene	86		13	6.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Benzo[b]fluoranthene	160		15	7.7	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Benzo[g,h,i]perylene	66		25	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Benzo[k]fluoranthene	52		10	4.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Chrysene	110		11	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Dibenz(a,h)anthracene	20	J	25	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Fluoranthene	110		25	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Fluorene	9.5	J	25	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Indeno[1,2,3-cd]pyrene	73		25	8.9	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
1-Methylnaphthalene	22	J	50	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
2-Methylnaphthalene	32	J	50	8.9	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Naphthalene	30	J	50	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Phenanthrene	87		10	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1
Pyrene	89		25	4.6	ug/Kg	☼	04/26/13 07:28	04/29/13 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*31*		*30 - 130*	*04/26/13 07:28*	*04/29/13 17:24*	*1*

Client Sample ID: CV0927B-CS-SP

Lab Sample ID: 680-89695-20
Date Collected: 04/23/13 14:03
Matrix: Solid
Date Received: 04/25/13 08:40
Percent Solids: 71.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Acenaphthylene	92		55	6.9	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Anthracene	72		12	5.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Benzo[a]anthracene	100		11	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Benzo[a]pyrene	100		14	7.2	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Benzo[b]fluoranthene	180		17	8.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Benzo[g,h,i]perylene	85		28	6.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Benzo[k]fluoranthene	75		11	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Chrysene	160		12	6.2	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Dibenz(a,h)anthracene	30		28	5.7	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Fluoranthene	190		28	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Fluorene	38		28	5.7	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Indeno[1,2,3-cd]pyrene	86		28	9.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
1-Methylnaphthalene	130		55	6.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
2-Methylnaphthalene	170		55	9.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Naphthalene	580		55	6.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Phenanthrene	350		11	5.4	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1
Pyrene	200		28	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*30 - 130*	*04/26/13 07:28*	*04/29/13 17:39*	*1*

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

Lab Sample ID: MB 660-136834/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136926 — **Prep Batch: 136834**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/25/13 12:29	04/29/13 12:01	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/25/13 12:29	04/29/13 12:01	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/25/13 12:29	04/29/13 12:01	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/25/13 12:29	04/29/13 12:01	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/25/13 12:29	04/29/13 12:01	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/25/13 12:29	04/29/13 12:01	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/25/13 12:29	04/29/13 12:01	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/25/13 12:29	04/29/13 12:01	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/25/13 12:29	04/29/13 12:01	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/25/13 12:29	04/29/13 12:01	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/25/13 12:29	04/29/13 12:01	1
Fluorene	20	U	20	4.1	ug/Kg		04/25/13 12:29	04/29/13 12:01	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/25/13 12:29	04/29/13 12:01	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/25/13 12:29	04/29/13 12:01	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/25/13 12:29	04/29/13 12:01	1
Naphthalene	40	U	40	4.4	ug/Kg		04/25/13 12:29	04/29/13 12:01	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/25/13 12:29	04/29/13 12:01	1
Pyrene	20	U	20	3.7	ug/Kg		04/25/13 12:29	04/29/13 12:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*04/25/13 12:29*	*04/29/13 12:01*	*1*

Lab Sample ID: LCS 660-136834/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136926 — **Prep Batch: 136834**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	669	341		ug/Kg		51	39 - 130
Acenaphthylene	669	360		ug/Kg		54	38 - 130
Anthracene	669	359		ug/Kg		54	37 - 130
Benzo[a]anthracene	669	392		ug/Kg		59	40 - 130
Benzo[a]pyrene	669	344		ug/Kg		51	49 - 130
Benzo[b]fluoranthene	669	412		ug/Kg		62	37 - 130
Benzo[g,h,i]perylene	669	382		ug/Kg		57	32 - 130
Benzo[k]fluoranthene	669	381		ug/Kg		57	32 - 130
Chrysene	669	359		ug/Kg		54	41 - 130
Dibenz(a,h)anthracene	669	399		ug/Kg		60	27 - 130
Fluoranthene	669	391		ug/Kg		59	40 - 130
Fluorene	669	382		ug/Kg		57	40 - 130
Indeno[1,2,3-cd]pyrene	669	372		ug/Kg		56	30 - 130
1-Methylnaphthalene	669	391		ug/Kg		58	31 - 130
2-Methylnaphthalene	669	379		ug/Kg		57	33 - 130
Naphthalene	669	366		ug/Kg		55	36 - 130
Phenanthrene	669	358		ug/Kg		53	42 - 130
Pyrene	669	356		ug/Kg		53	44 - 130

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

Lab Sample ID: LCS 660-136834/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136926 — **Prep Batch: 136834**

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*57*		*30 - 130*

Lab Sample ID: MB 660-136855/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136961 — **Prep Batch: 136855**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Fluorene	20	U	20	4.1	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Naphthalene	40	U	40	4.4	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Pyrene	20	U	20	3.7	ug/Kg		04/26/13 07:28	04/29/13 13:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*04/26/13 07:28*	*04/29/13 13:08*	*1*

Lab Sample ID: LCS 660-136855/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136961 — **Prep Batch: 136855**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	656	395		ug/Kg		60	39 - 130
Acenaphthylene	656	392		ug/Kg		60	38 - 130
Anthracene	656	399		ug/Kg		61	37 - 130
Benzo[a]anthracene	656	400		ug/Kg		61	40 - 130
Benzo[a]pyrene	656	390		ug/Kg		59	49 - 130
Benzo[b]fluoranthene	656	430		ug/Kg		66	37 - 130
Benzo[g,h,i]perylene	656	396		ug/Kg		60	32 - 130
Benzo[k]fluoranthene	656	392		ug/Kg		60	32 - 130
Chrysene	656	376		ug/Kg		57	41 - 130
Dibenz(a,h)anthracene	656	462		ug/Kg		70	27 - 130
Fluoranthene	656	442		ug/Kg		67	40 - 130
Fluorene	656	420		ug/Kg		64	40 - 130
Indeno[1,2,3-cd]pyrene	656	423		ug/Kg		64	30 - 130
1-Methylnaphthalene	656	453		ug/Kg		69	31 - 130

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

Lab Sample ID: LCS 660-136855/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136961 — **Prep Batch: 136855**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	656	430		ug/Kg		66	33 - 130
Naphthalene	656	410		ug/Kg		63	36 - 130
Phenanthrene	656	386		ug/Kg		59	42 - 130
Pyrene	656	413		ug/Kg		63	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*65*		*30 - 130*

Lab Sample ID: 680-89695-4 MS — **Client Sample ID: CV1329A-CS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136961 — **Prep Batch: 136855**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	120	U	798	342		ug/Kg	☼	43	39 - 130
Acenaphthylene	19	J	798	347		ug/Kg	☼	41	38 - 130
Anthracene	32		798	374		ug/Kg	☼	43	37 - 130
Benzo[a]anthracene	160	F	798	437	F	ug/Kg	☼	35	40 - 130
Benzo[a]pyrene	140	F	798	412	F	ug/Kg	☼	34	49 - 130
Benzo[b]fluoranthene	230		798	554		ug/Kg	☼	40	37 - 130
Benzo[g,h,i]perylene	140		798	483		ug/Kg	☼	43	32 - 130
Benzo[k]fluoranthene	87		798	341		ug/Kg	☼	32	32 - 130
Chrysene	170		798	508		ug/Kg	☼	42	41 - 130
Dibenz(a,h)anthracene	44		798	483		ug/Kg	☼	55	27 - 130
Fluoranthene	250	F	798	537	F	ug/Kg	☼	36	40 - 130
Fluorene	9.0	J	798	352		ug/Kg	☼	43	40 - 130
Indeno[1,2,3-cd]pyrene	130		798	505		ug/Kg	☼	47	30 - 130
1-Methylnaphthalene	86		798	453		ug/Kg	☼	46	31 - 130
2-Methylnaphthalene	110		798	456		ug/Kg	☼	43	33 - 130
Naphthalene	110		798	455		ug/Kg	☼	44	36 - 130
Phenanthrene	160		798	498		ug/Kg	☼	43	42 - 130
Pyrene	220	F	798	522	F	ug/Kg	☼	38	44 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*44*		*30 - 130*

Lab Sample ID: 680-89695-4 MSD — **Client Sample ID: CV1329A-CS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136961 — **Prep Batch: 136855**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	120	U	798	360		ug/Kg	☼	45	39 - 130	5	40
Acenaphthylene	19	J	798	366		ug/Kg	☼	43	38 - 130	5	40
Anthracene	32		798	414		ug/Kg	☼	48	37 - 130	10	40
Benzo[a]anthracene	160	F	798	496		ug/Kg	☼	42	40 - 130	12	40
Benzo[a]pyrene	140	F	798	459	F	ug/Kg	☼	40	49 - 130	11	40
Benzo[b]fluoranthene	230		798	619		ug/Kg	☼	48	37 - 130	11	40
Benzo[g,h,i]perylene	140		798	500		ug/Kg	☼	45	32 - 130	3	40
Benzo[k]fluoranthene	87		798	373		ug/Kg	☼	36	32 - 130	9	40

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

Lab Sample ID: 680-89695-4 MSD | **Client Sample ID: CV1329A-CS**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 136961 | **Prep Batch: 136855**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chrysene	170		798	531		ug/Kg	☼	45	41 - 130	4	40
Dibenz(a,h)anthracene	44		798	497		ug/Kg	☼	57	27 - 130	3	40
Fluoranthene	250	F	798	599		ug/Kg	☼	44	40 - 130	11	40
Fluorene	9.0	J	798	363		ug/Kg	☼	44	40 - 130	3	40
Indeno[1,2,3-cd]pyrene	130		798	537		ug/Kg	☼	51	30 - 130	6	40
1-Methylnaphthalene	86		798	474		ug/Kg	☼	49	31 - 130	5	40
2-Methylnaphthalene	110		798	504		ug/Kg	☼	49	33 - 130	10	40
Naphthalene	110		798	528		ug/Kg	☼	53	36 - 130	15	40
Phenanthrene	160		798	570		ug/Kg	☼	52	42 - 130	14	40
Pyrene	220	F	798	555	F	ug/Kg	☼	42	44 - 130	6	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*46*		*30 - 130*

QC Association Summary

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

GC/MS Semi VOA

Prep Batch: 136834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-1	FM0323A-CS	Total/NA	Solid	3546	
680-89695-2	FM0323A-CSD	Total/NA	Solid	3546	
680-89695-3	FM0323B-CS	Total/NA	Solid	3546	
680-89695-5	CV0773A-CS	Total/NA	Solid	3546	
680-89695-6	CV0773B-CS	Total/NA	Solid	3546	
LCS 660-136834/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136834/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 136855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-4	CV1329A-CS	Total/NA	Solid	3546	
680-89695-4 MS	CV1329A-CS	Total/NA	Solid	3546	
680-89695-4 MSD	CV1329A-CS	Total/NA	Solid	3546	
680-89695-7	CV0809A-CS	Total/NA	Solid	3546	
680-89695-8	CV0809A-CSD	Total/NA	Solid	3546	
680-89695-9	CV1202A-CS	Total/NA	Solid	3546	
680-89695-10	CV1202B-CS	Total/NA	Solid	3546	
680-89695-11	CV1202B-CSD	Total/NA	Solid	3546	
680-89695-12	CV0147A-CS-SP	Total/NA	Solid	3546	
680-89695-13	CV0427A-CS-SP	Total/NA	Solid	3546	
680-89695-14	CV0427B-CS-SP	Total/NA	Solid	3546	
680-89695-15	CV0718A-CS-SP	Total/NA	Solid	3546	
680-89695-16	CV0718B-CS-SP	Total/NA	Solid	3546	
680-89695-17	HP0157A-CS-SP	Total/NA	Solid	3546	
680-89695-18	CV0575A-CS-SP	Total/NA	Solid	3546	
680-89695-19	CV0927A-CS-SP	Total/NA	Solid	3546	
680-89695-20	CV0927B-CS-SP	Total/NA	Solid	3546	
LCS 660-136855/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136855/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-1	FM0323A-CS	Total/NA	Solid	8270C LL	136834
680-89695-2	FM0323A-CSD	Total/NA	Solid	8270C LL	136834
680-89695-3	FM0323B-CS	Total/NA	Solid	8270C LL	136834
680-89695-5	CV0773A-CS	Total/NA	Solid	8270C LL	136834
680-89695-6	CV0773B-CS	Total/NA	Solid	8270C LL	136834
LCS 660-136834/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136834
MB 660-136834/1-A	Method Blank	Total/NA	Solid	8270C LL	136834

Analysis Batch: 136961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-4	CV1329A-CS	Total/NA	Solid	8270C LL	136855
680-89695-4 MS	CV1329A-CS	Total/NA	Solid	8270C LL	136855
680-89695-4 MSD	CV1329A-CS	Total/NA	Solid	8270C LL	136855
680-89695-7	CV0809A-CS	Total/NA	Solid	8270C LL	136855
680-89695-8	CV0809A-CSD	Total/NA	Solid	8270C LL	136855
680-89695-9	CV1202A-CS	Total/NA	Solid	8270C LL	136855
680-89695-10	CV1202B-CS	Total/NA	Solid	8270C LL	136855
680-89695-11	CV1202B-CSD	Total/NA	Solid	8270C LL	136855
680-89695-12	CV0147A-CS-SP	Total/NA	Solid	8270C LL	136855

GC/MS Semi VOA (Continued)

Analysis Batch: 136961 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-13	CV0427A-CS-SP	Total/NA	Solid	8270C LL	136855
680-89695-14	CV0427B-CS-SP	Total/NA	Solid	8270C LL	136855
680-89695-15	CV0718A-CS-SP	Total/NA	Solid	8270C LL	136855
680-89695-16	CV0718B-CS-SP	Total/NA	Solid	8270C LL	136855
680-89695-17	HP0157A-CS-SP	Total/NA	Solid	8270C LL	136855
680-89695-18	CV0575A-CS-SP	Total/NA	Solid	8270C LL	136855
680-89695-19	CV0927A-CS-SP	Total/NA	Solid	8270C LL	136855
680-89695-20	CV0927B-CS-SP	Total/NA	Solid	8270C LL	136855
LCS 660-136855/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136855
MB 660-136855/1-A	Method Blank	Total/NA	Solid	8270C LL	136855

General Chemistry

Analysis Batch: 136902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-1	FM0323A-CS	Total/NA	Solid	Moisture	
680-89695-2	FM0323A-CSD	Total/NA	Solid	Moisture	
680-89695-3	FM0323B-CS	Total/NA	Solid	Moisture	
680-89695-4	CV1329A-CS	Total/NA	Solid	Moisture	
680-89695-4 MS	CV1329A-CS	Total/NA	Solid	Moisture	
680-89695-4 MSD	CV1329A-CS	Total/NA	Solid	Moisture	
680-89695-5	CV0773A-CS	Total/NA	Solid	Moisture	
680-89695-6	CV0773B-CS	Total/NA	Solid	Moisture	
680-89695-7	CV0809A-CS	Total/NA	Solid	Moisture	
680-89695-8	CV0809A-CSD	Total/NA	Solid	Moisture	
680-89695-9	CV1202A-CS	Total/NA	Solid	Moisture	
680-89695-10	CV1202B-CS	Total/NA	Solid	Moisture	
680-89695-11	CV1202B-CSD	Total/NA	Solid	Moisture	
680-89695-12	CV0147A-CS-SP	Total/NA	Solid	Moisture	
680-89695-13	CV0427A-CS-SP	Total/NA	Solid	Moisture	
680-89695-14	CV0427B-CS-SP	Total/NA	Solid	Moisture	
680-89695-15	CV0718A-CS-SP	Total/NA	Solid	Moisture	
680-89695-16	CV0718B-CS-SP	Total/NA	Solid	Moisture	
680-89695-17	HP0157A-CS-SP	Total/NA	Solid	Moisture	
680-89695-18	CV0575A-CS-SP	Total/NA	Solid	Moisture	
680-89695-19	CV0927A-CS-SP	Total/NA	Solid	Moisture	
680-89695-20	CV0927B-CS-SP	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: FM0323A-CS — Lab Sample ID: 680-89695-1

Date Collected: 04/22/13 13:30 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 86.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136834	04/25/13 12:29	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136926	04/29/13 18:47	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: FM0323A-CSD — Lab Sample ID: 680-89695-2

Date Collected: 04/22/13 13:30 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 79.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136834	04/25/13 12:29	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136926	04/29/13 19:10	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: FM0323B-CS — Lab Sample ID: 680-89695-3

Date Collected: 04/22/13 13:40 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 81.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136834	04/25/13 12:29	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136926	04/29/13 19:32	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV1329A-CS — Lab Sample ID: 680-89695-4

Date Collected: 04/22/13 14:55 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 83.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	136961	04/29/13 13:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV0773A-CS — Lab Sample ID: 680-89695-5

Date Collected: 04/23/13 09:25 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 80.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136834	04/25/13 12:29	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136926	04/29/13 19:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: CV0773B-CS — Lab Sample ID: 680-89695-6

Date Collected: 04/23/13 09:35 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 78.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136834	04/25/13 12:29	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136926	04/29/13 20:17	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV0809A-CS — Lab Sample ID: 680-89695-7

Date Collected: 04/23/13 08:45 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 78.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	136961	04/29/13 14:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV0809A-CSD — Lab Sample ID: 680-89695-8

Date Collected: 04/23/13 08:45 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 78.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	136961	04/29/13 14:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV1202A-CS — Lab Sample ID: 680-89695-9

Date Collected: 04/23/13 10:10 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 80.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	136961	04/29/13 14:54	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV1202B-CS — Lab Sample ID: 680-89695-10

Date Collected: 04/23/13 10:20 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 75.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	136961	04/29/13 15:09	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: CV1202B-CSD — Lab Sample ID: 680-89695-11

Date Collected: 04/23/13 10:20 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 77.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	136961	04/29/13 15:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV0147A-CS-SP — Lab Sample ID: 680-89695-12

Date Collected: 04/23/13 10:33 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 83.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	136961	04/29/13 15:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV0427A-CS-SP — Lab Sample ID: 680-89695-13

Date Collected: 04/23/13 08:53 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 78.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	136961	04/29/13 15:54	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV0427B-CS-SP — Lab Sample ID: 680-89695-14

Date Collected: 04/23/13 09:03 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 76.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	136961	04/29/13 16:09	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV0718A-CS-SP — Lab Sample ID: 680-89695-15

Date Collected: 04/23/13 09:31 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 80.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	136961	04/29/13 16:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Client Sample ID: CV0718B-CS-SP — Lab Sample ID: 680-89695-16

Date Collected: 04/23/13 09:44 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 82.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	136961	04/29/13 16:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: HP0157A-CS-SP — Lab Sample ID: 680-89695-17

Date Collected: 04/23/13 12:46 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 74.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	136961	04/29/13 16:54	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV0575A-CS-SP — Lab Sample ID: 680-89695-18

Date Collected: 04/23/13 13:22 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 79.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	136961	04/29/13 17:09	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV0927A-CS-SP — Lab Sample ID: 680-89695-19

Date Collected: 04/23/13 13:51 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 79.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	136961	04/29/13 17:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV0927B-CS-SP — Lab Sample ID: 680-89695-20

Date Collected: 04/23/13 14:03 — **Matrix: Solid**
Date Received: 04/25/13 08:40 — **Percent Solids: 71.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	136961	04/29/13 17:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Laboratory References:

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

Serial Number 64688

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

Alternate Laboratory Name/Location: Test Am Tampa

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 2005148-1356
PROJECT LOCATION (STATE): AL

PAGE 1 OF 3

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

STANDARD REPORT DELIVERY ○
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○ 10 day TAT
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, ...)	4L PAH	RCRA 8 Metals									REMARKS
4-22-13	1330	FM0323A-CS	C		X			X										
	1330	FM0323A-CSD	C		X			X										
	1340	FM0323B-CS	C		X			X										
	1455	CV1329A-CS	C		X			X	X									
4-23-13	0925	CV0773A-CS	C		X			X										
	0935	CV0773B-CS	C		X			X										
	0845	CV0809A-CS	C		X			X										
	0845	CV0809A-CSD	C		X			X										
	1010	CV1202A-CS	C		X			X										
	1020	CV1202B-CS	C		X			X										
	1020	CV1202B-CSD	C		X			X										
	1033	CV0147A-CS-SP	C		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-24-13	1330						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	4-25-13	0840						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-89695	LABORATORY REMARKS 5.8 CU-07

TAL8240-680 (1003)

Page 20 of 31

5/6/2013

Serial Number 64615

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

Alternate Laboratory Name/Location: Test Am - Tampa

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 2005148-1356
PROJECT LOCATION (STATE): AL

PAGE 2 OF 3

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

STANDARD REPORT DELIVERY ○
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○ 10 ~~DAY~~ TAT
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, ...)	2L PAH	RCRA 8 Metals									REMARKS
4-23-13	0853	CV0427A-CS-SP	C		X			X										
	0903	CV0427B-CS-SP	C		X			X	X									
	0931	CV0718A-CS-SP	C		X			X										
	0944	CV0718B-CS-SP	C		X			X										
	1246	HP0157A-CS-SP	C		X			X										
	1322	CV0575A-CS-SP	C		X			X	X									
	1351	CV0927A-CS-SP	C		X			X										
	1403	CV0927B-CS-SP	C		X			X										
	1445	CV1158A-CS	C		X			X										
	1500	CV1158B-CS	C		X			X										
	1310	CV1235A-CS	C		X			X										
	1320	CV1235B-CS	C		X			X										

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-24-13	1330						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]	4-25-13	0840						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-89695	LABORATORY REMARKS

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-1
SDG Number: 68089695-1

Login Number: 89695
List Number: 1
Creator: Daughtry, Beth

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-1
SDG Number: 68089695-1

Login Number: 89695
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 04/25/13 01:52 PM

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

Certification Summary

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

TestAmerica Job ID: 680-89695-1
SDG: 68089695-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		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
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
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: 680-89695-1
SDG: 68089695-1

Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00177	04-20-14