

REDACTED

Data Validation Checklist Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica – Tampa, FL
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil
 Reviewer: Jane Lindsey
 Concurrence¹: Carol Lovett, Martha Meyers-Lee

Project No: 15268508.20000
 Job ID.: 680-88118-1
 Associated Samples: Refer to Attachment A (Sample Summary)
 Date(s) Collected: 03/06/2013
 Date: 03/26/2013
 Date: 04/05/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.			✓		
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAH were not detected during the analysis of rinsate blank 030513-RB-Shovel (680-88065-26).	

¹ Independent technical reviewer
 URS Group, Inc.
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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 (030513-RB-Shovel) was collected during the week of 03/04/2013. The rinsate blank was analyzed for PAHs under Test America Job ID 680-88065-1.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?		✓			
15. Was precision deemed acceptable as defined by the project plans?			✓		
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> 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. 	✓			<ul style="list-style-type: none"> Initial Calibration: 03/15/2013, instrument BSMA5973 ICV: 03/15/20 @ 14:39 Initial Calibration: 02/22/2013, instrument BSMC5973 ICV: 02/22/2013 @ 14:06 CCV: 03/19/2013 @ 11:18 	
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> ICAL (Criteria: ≤ 15 mean %RSD with individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, 		✓		<ul style="list-style-type: none"> ICV of 03/15/2013 @ 14:39, instrument BSMA5973: <ul style="list-style-type: none"> Benzo(a)pyrene @ -27.5%D (Lab: ≤ 35, Project: ≤ 20), 72.5%R Benzo(g,h,i)perylene @ -21.4%D (Lab: ≤ 35, 	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects</p> <ul style="list-style-type: none"> ○ 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 $RF \geq 0.050$ (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ○ If $\%D > 20$ ($> 50\%$ for poor performers), then J-flag positive results and UJ-flag non-detects ○ If $RF < 0.050$ (< 0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds 				<p>Project: ≤ 20, 78.5%R</p> <p>Negative bias is indicated by the ICV percent difference and the analytes were detected in all associated samples²; therefore, J flag results.</p> <ul style="list-style-type: none"> • ICV of 02/22/2013 @ 14:06, instrument BSMC5973: <ul style="list-style-type: none"> ○ Chrysene @ -20.6%D (Lab: ≤ 35, Project: ≤ 20), 79.5%R ○ Benzo(a)pyrene @ -21.7%D (Lab: ≤ 35, Project: ≤ 20), 78.5%R <p>Negative bias is indicated by the ICV percent difference. Qualification of data is not warranted, however, because results for the above-mentioned compounds were reported from an alternate analysis (i.e., undiluted analysis) in the associated sample³.</p>	
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 $\%R > \text{Upper Control Limit (UCL)}$ and J/R-flag results when $\%R < \text{Lower Control Limit (LCL)}$.	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?		✓		Prep Batch 135376: 680-88118-11 (CV0684B-CS-SP), MS/MSD	
24. Is the MS/MSD parent sample a project-specific sample?	✓			See above.	
<p>25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i></p> <ul style="list-style-type: none"> • If the native sample concentration $> 4x$ spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD $\%R < 10$: J and R Flag positive and ND results, respectively • MS and MSD $\%R > 10$ and $< \text{LCL}$: J-Flag positive and UJ- 		✓		CV0684B-CS-SP (680-88118-11): Benzo(a)pyrene MS and MSD @ 38 and 43%R, respectively (49-130). J flag result.	J

² 680-88118-01 through -20³ 680-88118-15 DL

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results					
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result	✓				
27. Were surrogate recoveries within lab/project specifications? • If %R <10, then J-flag positive and R-flag non-detect associated sample results • If %R >UCL, then J-flag positive results • %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results	✓				
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.	✓				
	✓			Refer to Attachment B (Case Narrative)	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
29. Were lab comments included in report?					
<p>Comments: The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review</i> (EPA, October 1999) and <i>USEPA CLP NFG for Low Concentration Organic Methods Data Review</i> (EPA, June 2001). Sample results have been qualified based on the results of the data review process (Attachment C). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.</p>					

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: 680-88118-1
SDG: 68088118-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88118-1	CV0144A-CS-SP	Solid	03/06/13 09:32	03/08/13 09:21
680-88118-2	CV0144B-CS-SP	Solid	03/06/13 09:52	03/08/13 09:21
680-88118-3	CV0193A-CS-SP	Solid	03/06/13 13:38	03/08/13 09:21
680-88118-4	CV0628A-CS-SP	Solid	03/06/13 08:25	03/08/13 09:21
680-88118-5	CV0628B-CS-SP	Solid	03/06/13 08:30	03/08/13 09:21
680-88118-6	CV0628C-CS-SP	Solid	03/06/13 08:35	03/08/13 09:21
680-88118-7	CV0683A-CS-SP	Solid	03/06/13 12:11	03/08/13 09:21
680-88118-8	CV0683B-CS-SP	Solid	03/06/13 12:20	03/08/13 09:21
680-88118-9	CV0683C-GS-SP	Solid	03/06/13 12:27	03/08/13 09:21
680-88118-10	CV0684A-CS-SP	Solid	03/06/13 12:38	03/08/13 09:21
680-88118-11	CV0684B-CS-SP	Solid	03/06/13 12:50	03/08/13 09:21
680-88118-12	CV0684C-GS-SP	Solid	03/06/13 13:01	03/08/13 09:21
680-88118-13	CV0713A-CS-SP	Solid	03/06/13 08:57	03/08/13 09:21
680-88118-14	CV0713B-CS-SP	Solid	03/06/13 09:11	03/08/13 09:21
680-88118-15	CV0844A-CS	Solid	03/06/13 09:30	03/08/13 09:21
680-88118-16	CV0844B-CS	Solid	03/06/13 09:40	03/08/13 09:21
680-88118-17	CV0846A-CS	Solid	03/06/13 09:05	03/08/13 09:21
680-88118-18	CV0945A-CS	Solid	03/06/13 10:45	03/08/13 09:21
680-88118-19	CV0960A-CS	Solid	03/06/13 10:15	03/08/13 09:21
680-88118-20	FM0116A-CS-SP	Solid	03/06/13 10:37	03/08/13 09:21

ATTACHMENT B
CASE NARRATIVE

Case Narrative

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

TestAmerica Job ID: 680-88118-1
SDG: 68088118-1

Job ID: 680-88118-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88118-1

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 03/08/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0144A-CS-SP (680-88118-1), CV0144B-CS-SP (680-88118-2), CV0193A-CS-SP (680-88118-3), CV0628A-CS-SP (680-88118-4), CV0628B-CS-SP (680-88118-5), CV0628C-CS-SP (680-88118-6), CV0683A-CS-SP (680-88118-7), CV0683B-CS-SP (680-88118-8), CV0683C-GS-SP (680-88118-9), CV0684A-CS-SP (680-88118-10), CV0684B-CS-SP (680-88118-11), CV0684C-GS-SP (680-88118-12), CV0713A-CS-SP (680-88118-13), CV0713B-CS-SP (680-88118-14), CV0844A-CS (680-88118-15), CV0844B-CS (680-88118-16), CV0846A-CS (680-88118-17), CV0945A-CS (680-88118-18), CV0960A-CS (680-88118-19) and FM0116A-CS-SP (680-88118-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/14/2013 and analyzed on 03/15/2013 and 03/19/2013.

Samples CV0144A-CS-SP (680-88118-1)[4X], CV0144B-CS-SP (680-88118-2)[4X], CV0193A-CS-SP (680-88118-3)[4X], CV0683A-CS-SP (680-88118-7)[4X], CV0683C-GS-SP (680-88118-9)[4X], CV0684C-GS-SP (680-88118-12)[4X], CV0713A-CS-SP (680-88118-13)[4X], CV0844A-CS (680-88118-15)[4X], CV0844B-CS (680-88118-16)[4X], CV0945A-CS (680-88118-18)[4X] and FM0116A-CS-SP (680-88118-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[a]pyrene recovered outside the recovery criteria for the MS/MSD of sample CV0684B-CS-SP (680-88118-11) in batch 660-135466.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT C
QUALIFIED SAMPLE RESULTS

Client Sample Results

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0144A-CS-SP

Lab Sample ID: 680-88118-1

Date Collected: 03/06/13 09:32

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 77.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	J	510	100	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
Acenaphthylene	160	J	200	25	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
Anthracene	200		43	21	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
Benzo[a]anthracene	670		41	20	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
Benzo[a]pyrene	420	J	53	26	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
Benzo[b]fluoranthene	1100		62	31	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
Benzo[g,h,i]perylene	280	J	100	22	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
Benzo[k]fluoranthene	160		41	18	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
Chrysene	650		46	23	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
Dibenz(a,h)anthracene	110		100	21	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
Fluoranthene	870		100	20	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
Fluorene	150		100	21	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
Indeno[1,2,3-cd]pyrene	240		100	36	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
1-Methylnaphthalene	220		200	22	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
2-Methylnaphthalene	540		200	36	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
Naphthalene	220		200	22	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
Phenanthrene	790		41	20	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
Pyrene	720		100	19	ug/Kg	☐	03/14/13 08:53	03/15/13 15:47	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	73		30 - 130				03/14/13 08:53	03/15/13 15:47	4

Client Sample ID: CV0144B-CS-SP

Lab Sample ID: 680-88118-2

Date Collected: 03/06/13 09:52

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 73.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1200		540	110	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
Acenaphthylene	300		220	27	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
Anthracene	940		45	23	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
Benzo[a]anthracene	3700		43	21	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
Benzo[a]pyrene	3100	J	56	28	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
Benzo[b]fluoranthene	5000		66	33	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
Benzo[g,h,i]perylene	2000	J	110	24	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
Benzo[k]fluoranthene	1800		43	19	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
Chrysene	4600		49	24	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
Dibenz(a,h)anthracene	800		110	22	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
Fluoranthene	9800		110	22	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
Fluorene	1200		110	22	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
Indeno[1,2,3-cd]pyrene	1900		110	38	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
1-Methylnaphthalene	2700		220	24	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
2-Methylnaphthalene	3000		220	38	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
Naphthalene	3400		220	24	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
Phenanthrene	14000		43	21	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
Pyrene	8900		110	20	ug/Kg	☐	03/14/13 08:53	03/15/13 16:02	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	89		30 - 130				03/14/13 08:53	03/15/13 16:02	4

TestAmerica Savannah

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: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0193A-CS-SP

Lab Sample ID: 680-88118-3

Date Collected: 03/06/13 13:38

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 79.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	J	500	99	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Acenaphthylene	170	J	200	25	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Anthracene	140		42	21	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Benzo[a]anthracene	560		40	19	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Benzo[a]pyrene	370	J	52	26	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Benzo[b]fluoranthene	930		60	30	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Benzo[g,h,i]perylene	220	J	99	22	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Benzo[k]fluoranthene	260		40	18	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Chrysene	570		45	22	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Dibenz(a,h)anthracene	130		99	20	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Fluoranthene	760		99	20	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Fluorene	120		99	20	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Indeno[1,2,3-cd]pyrene	240		99	35	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
1-Methylnaphthalene	160	J	200	22	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
2-Methylnaphthalene	480		200	35	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Naphthalene	160	J	200	22	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Phenanthrene	510		40	19	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Pyrene	640		99	18	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	90		30 - 130				03/14/13 08:53	03/15/13 16:17	4

Client Sample ID: CV0628A-CS-SP

Lab Sample ID: 680-88118-4

Date Collected: 03/06/13 08:25

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 69.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	51	J	140	29	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Acenaphthylene	32	J	57	7.1	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Anthracene	26		12	6.0	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Benzo[a]anthracene	130		11	5.6	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Benzo[a]pyrene	92	J	15	7.4	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Benzo[b]fluoranthene	260		17	8.7	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Benzo[g,h,i]perylene	84	J	29	6.3	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Benzo[k]fluoranthene	55		11	5.1	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Chrysene	190		13	6.4	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Dibenz(a,h)anthracene	30		29	5.9	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Fluoranthene	140		29	5.7	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Fluorene	36		29	5.9	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Indeno[1,2,3-cd]pyrene	74		29	10	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
1-Methylnaphthalene	81		57	6.3	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
2-Methylnaphthalene	160		57	10	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Naphthalene	89		57	6.3	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Phenanthrene	160		11	5.6	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Pyrene	190		29	5.3	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	70		30 - 130				03/14/13 08:53	03/15/13 16:33	1

TestAmerica Savannah

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: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0628B-CS-SP

Lab Sample ID: 680-88118-5

Date Collected: 03/06/13 08:30

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 72.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	46	J	140	28	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
Acenaphthylene	30	J	55	6.9	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
Anthracene	24		12	5.8	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
Benzo[a]anthracene	98		11	5.4	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
Benzo[a]pyrene	76	J	14	7.2	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
Benzo[b]fluoranthene	220		17	8.5	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
Benzo[g,h,i]perylene	67	J	28	6.1	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
Benzo[k]fluoranthene	51		11	5.0	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
Chrysene	140		12	6.2	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
Dibenz(a,h)anthracene	24	J	28	5.7	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
Fluoranthene	120		28	5.5	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
Fluorene	25	J	28	5.7	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
Indeno[1,2,3-cd]pyrene	41		28	9.8	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
1-Methylnaphthalene	59		55	6.1	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
2-Methylnaphthalene	140		55	9.8	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
Naphthalene	58		55	6.1	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
Phenanthrene	120		11	5.4	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
Pyrene	150		28	5.1	ug/Kg	☆	03/14/13 08:53	03/15/13 16:48	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	69		30 - 130				03/14/13 08:53	03/15/13 16:48	1

Client Sample ID: CV0628C-CS-SP

Lab Sample ID: 680-88118-6

Date Collected: 03/06/13 08:35

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 73.2

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	☆	03/14/13 08:53	03/15/13 17:03	1
Acenaphthylene	26	J	54	6.7	ug/Kg	☆	03/14/13 08:53	03/15/13 17:03	1
Anthracene	19		11	5.7	ug/Kg	☆	03/14/13 08:53	03/15/13 17:03	1
Benzo[a]anthracene	100		11	5.2	ug/Kg	☆	03/14/13 08:53	03/15/13 17:03	1
Benzo[a]pyrene	53	J	14	7.0	ug/Kg	☆	03/14/13 08:53	03/15/13 17:03	1
Benzo[b]fluoranthene	200		16	8.2	ug/Kg	☆	03/14/13 08:53	03/15/13 17:03	1
Benzo[g,h,i]perylene	60	J	27	5.9	ug/Kg	☆	03/14/13 08:53	03/15/13 17:03	1
Benzo[k]fluoranthene	36		11	4.8	ug/Kg	☆	03/14/13 08:53	03/15/13 17:03	1
Chrysene	85		12	6.1	ug/Kg	☆	03/14/13 08:53	03/15/13 17:03	1
Dibenz(a,h)anthracene	27		27	5.5	ug/Kg	☆	03/14/13 08:53	03/15/13 17:03	1
Fluoranthene	80		27	5.4	ug/Kg	☆	03/14/13 08:53	03/15/13 17:03	1
Fluorene	27	U	27	5.5	ug/Kg	☆	03/14/13 08:53	03/15/13 17:03	1
Indeno[1,2,3-cd]pyrene	45		27	9.6	ug/Kg	☆	03/14/13 08:53	03/15/13 17:03	1
1-Methylnaphthalene	31	J	54	5.9	ug/Kg	☆	03/14/13 08:53	03/15/13 17:03	1
2-Methylnaphthalene	120		54	9.6	ug/Kg	☆	03/14/13 08:53	03/15/13 17:03	1
Naphthalene	53	J	54	5.9	ug/Kg	☆	03/14/13 08:53	03/15/13 17:03	1
Phenanthrene	63		11	5.2	ug/Kg	☆	03/14/13 08:53	03/15/13 17:03	1
Pyrene	120		27	5.0	ug/Kg	☆	03/14/13 08:53	03/15/13 17:03	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	62		30 - 130				03/14/13 08:53	03/15/13 17:03	1

TestAmerica Savannah

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: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0683A-CS-SP

Lab Sample ID: 680-88118-7

Date Collected: 03/06/13 12:11

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 72.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
Acenaphthylene	96	J	220	27	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
Anthracene	84		46	23	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
Benzo[a]anthracene	380		44	21	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
Benzo[a]pyrene	220	J	57	29	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
Benzo[b]fluoranthene	820		67	33	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
Benzo[g,h,i]perylene	220	J	110	24	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
Benzo[k]fluoranthene	130		44	20	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
Chrysene	440		49	25	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
Dibenz(a,h)anthracene	86	J	110	23	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
Fluoranthene	430		110	22	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
Fluorene	110	U	110	23	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
Indeno[1,2,3-cd]pyrene	170		110	39	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
1-Methylnaphthalene	120	J	220	24	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
2-Methylnaphthalene	460		220	39	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
Naphthalene	200	J	220	24	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
Phenanthrene	340		44	21	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
Pyrene	380		110	20	ug/Kg	☐	03/14/13 08:53	03/15/13 17:18	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	74		30 - 130				03/14/13 08:53	03/15/13 17:18	4

Client Sample ID: CV0683B-CS-SP

Lab Sample ID: 680-88118-8

Date Collected: 03/06/13 12:20

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
Acenaphthylene	28	J	49	6.1	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
Anthracene	30		10	5.2	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
Benzo[a]anthracene	98		9.8	4.8	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
Benzo[a]pyrene	62	J	13	6.4	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
Benzo[b]fluoranthene	190		15	7.5	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
Benzo[g,h,i]perylene	70	J	25	5.4	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
Benzo[k]fluoranthene	36		9.8	4.4	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
Chrysene	120		11	5.5	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
Dibenz(a,h)anthracene	22	J	25	5.0	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
Fluoranthene	110		25	4.9	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
Fluorene	25	U	25	5.0	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
Indeno[1,2,3-cd]pyrene	56		25	8.7	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
1-Methylnaphthalene	38	J	49	5.4	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
2-Methylnaphthalene	130		49	8.7	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
Naphthalene	76		49	5.4	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
Phenanthrene	110		9.8	4.8	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
Pyrene	100		25	4.5	ug/Kg	☐	03/14/13 08:53	03/15/13 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130				03/14/13 08:53	03/15/13 17:33	1

TestAmerica Savannah

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: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0683C-GS-SP

Lab Sample ID: 680-88118-9

Date Collected: 03/06/13 12:27

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 81.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	190	J	490	97	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
Acenaphthylene	180	J	190	24	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
Anthracene	220		41	20	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
Benzo[a]anthracene	700		39	19	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
Benzo[a]pyrene	310	J	51	25	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
Benzo[b]fluoranthene	900		59	30	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
Benzo[g,h,i]perylene	410	J	97	21	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
Benzo[k]fluoranthene	300		39	18	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
Chrysene	790		44	22	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
Dibenz(a,h)anthracene	190		97	20	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
Fluoranthene	710		97	19	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
Fluorene	230		97	20	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
Indeno[1,2,3-cd]pyrene	310		97	35	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
1-Methylnaphthalene	540		190	21	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
2-Methylnaphthalene	840		190	35	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
Naphthalene	580		190	21	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
Phenanthrene	1100		39	19	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
Pyrene	790		97	18	ug/Kg	⊛	03/14/13 08:53	03/15/13 17:49	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	80		30 - 130				03/14/13 08:53	03/15/13 17:49	4

Client Sample ID: CV0684A-CS-SP

Lab Sample ID: 680-88118-10

Date Collected: 03/06/13 12:38

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 75.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	47	J	130	26	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
Acenaphthylene	49	J	52	6.4	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
Anthracene	56		11	5.4	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
Benzo[a]anthracene	280		10	5.0	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
Benzo[a]pyrene	170	J	13	6.7	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
Benzo[b]fluoranthene	410		16	7.9	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
Benzo[g,h,i]perylene	190	J	26	5.7	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
Benzo[k]fluoranthene	89		10	4.6	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
Chrysene	360		12	5.8	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
Dibenz(a,h)anthracene	87		26	5.3	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
Fluoranthene	330		26	5.2	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
Fluorene	57		26	5.3	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
Indeno[1,2,3-cd]pyrene	140		26	9.1	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
1-Methylnaphthalene	130		52	5.7	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
2-Methylnaphthalene	220		52	9.1	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
Naphthalene	150		52	5.7	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
Phenanthrene	360		10	5.0	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
Pyrene	310		26	4.8	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:04	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	54		30 - 130				03/14/13 08:53	03/15/13 18:04	1

TestAmerica Savannah

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: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0684B-CS-SP

Lab Sample ID: 680-88118-11

Date Collected: 03/06/13 12:50

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 79.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
Acenaphthylene	34	J	49	6.2	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
Anthracene	33		10	5.2	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
Benzo[a]anthracene	200		9.9	4.8	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
Benzo[a]pyrene	120	J	13	6.4	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
Benzo[b]fluoranthene	280		15	7.5	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
Benzo[g,h,i]perylene	120	J	25	5.4	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
Benzo[k]fluoranthene	58		9.9	4.5	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
Chrysene	180		11	5.6	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
Dibenz(a,h)anthracene	52		25	5.1	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
Fluoranthene	170		25	4.9	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
Fluorene	25	U	25	5.1	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
Indeno[1,2,3-cd]pyrene	110		25	8.8	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
1-Methylnaphthalene	78		49	5.4	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
2-Methylnaphthalene	150		49	8.8	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
Naphthalene	96		49	5.4	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
Phenanthrene	180		9.9	4.8	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
Pyrene	170		25	4.6	ug/Kg	⊛	03/14/13 08:53	03/15/13 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130				03/14/13 08:53	03/15/13 18:19	1

Client Sample ID: CV0684C-GS-SP

Lab Sample ID: 680-88118-12

Date Collected: 03/06/13 13:01

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 72.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	200	J	550	110	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
Acenaphthylene	200	J	220	27	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
Anthracene	200		46	23	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
Benzo[a]anthracene	730		44	21	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
Benzo[a]pyrene	370	J	57	28	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
Benzo[b]fluoranthene	1000		67	33	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
Benzo[g,h,i]perylene	410	J	110	24	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
Benzo[k]fluoranthene	220		44	20	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
Chrysene	900		49	25	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
Dibenz(a,h)anthracene	160		110	22	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
Fluoranthene	910		110	22	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
Fluorene	260		110	22	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
Indeno[1,2,3-cd]pyrene	310		110	39	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
1-Methylnaphthalene	660		220	24	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
2-Methylnaphthalene	920		220	39	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
Naphthalene	650		220	24	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
Phenanthrene	1200		44	21	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
Pyrene	890		110	20	ug/Kg	⊛	03/14/13 08:53	03/15/13 19:05	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		30 - 130				03/14/13 08:53	03/15/13 19:05	4

TestAmerica Savannah

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: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0713A-CS-SP

Lab Sample ID: 680-88118-13

Date Collected: 03/06/13 08:57

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 78.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
Acenaphthylene	73	J	200	25	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
Anthracene	110		42	21	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
Benzo[a]anthracene	420		40	20	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
Benzo[a]pyrene	230	J	52	26	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
Benzo[b]fluoranthene	780		62	31	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
Benzo[g,h,i]perylene	200	J	100	22	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
Benzo[k]fluoranthene	120		40	18	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
Chrysene	360		45	23	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
Dibenz(a,h)anthracene	68	J	100	21	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
Fluoranthene	650		100	20	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
Fluorene	140		100	21	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
Indeno[1,2,3-cd]pyrene	170		100	36	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
1-Methylnaphthalene	35	J	200	22	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
2-Methylnaphthalene	360		200	36	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
Naphthalene	66	J	200	22	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
Phenanthrene	460		40	20	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
Pyrene	610		100	19	ug/Kg	☐	03/14/13 08:53	03/15/13 19:20	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	80		30 - 130				03/14/13 08:53	03/15/13 19:20	4

Client Sample ID: CV0713B-CS-SP

Lab Sample ID: 680-88118-14

Date Collected: 03/06/13 09:11

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 77.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
Acenaphthylene	24	J	52	6.5	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
Anthracene	15		11	5.4	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
Benzo[a]anthracene	93		10	5.0	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
Benzo[a]pyrene	59	J	13	6.7	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
Benzo[b]fluoranthene	190		16	7.9	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
Benzo[g,h,i]perylene	45	J	26	5.7	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
Benzo[k]fluoranthene	31		10	4.7	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
Chrysene	81		12	5.8	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
Dibenz(a,h)anthracene	19	J	26	5.3	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
Fluoranthene	89		26	5.2	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
Fluorene	26	U	26	5.3	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
Indeno[1,2,3-cd]pyrene	39		26	9.2	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
1-Methylnaphthalene	26	J	52	5.7	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
2-Methylnaphthalene	120		52	9.2	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
Naphthalene	48	J	52	5.7	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
Phenanthrene	60		10	5.0	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
Pyrene	110		26	4.8	ug/Kg	☐	03/14/13 08:53	03/15/13 19:35	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	69		30 - 130				03/14/13 08:53	03/15/13 19:35	1

TestAmerica Savannah

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: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0844A-CS

Lab Sample ID: 680-88118-15

Date Collected: 03/06/13 09:30

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	96	J	130	25	ug/Kg	☆	03/14/13 08:53	03/15/13 19:50	1
Acenaphthylene	40	J	50	6.3	ug/Kg	☆	03/14/13 08:53	03/15/13 19:50	1
Anthracene	390		11	5.3	ug/Kg	☆	03/14/13 08:53	03/15/13 19:50	1
Benzo[a]anthracene	2000		10	4.9	ug/Kg	☆	03/14/13 08:53	03/15/13 19:50	1
Benzo[a]pyrene	1400	J	13	6.5	ug/Kg	☆	03/14/13 08:53	03/15/13 19:50	1
Benzo[b]fluoranthene	2000		15	7.7	ug/Kg	☆	03/14/13 08:53	03/15/13 19:50	1
Benzo[g,h,i]perylene	900	J	25	5.5	ug/Kg	☆	03/14/13 08:53	03/15/13 19:50	1
Benzo[k]fluoranthene	740		10	4.5	ug/Kg	☆	03/14/13 08:53	03/15/13 19:50	1
Chrysene	1800		11	5.7	ug/Kg	☆	03/14/13 08:53	03/15/13 19:50	1
Dibenz(a,h)anthracene	360		25	5.2	ug/Kg	☆	03/14/13 08:53	03/15/13 19:50	1
Fluorene	85		25	5.2	ug/Kg	☆	03/14/13 08:53	03/15/13 19:50	1
Indeno[1,2,3-cd]pyrene	900		25	8.9	ug/Kg	☆	03/14/13 08:53	03/15/13 19:50	1
1-Methylnaphthalene	50		50	5.5	ug/Kg	☆	03/14/13 08:53	03/15/13 19:50	1
2-Methylnaphthalene	130		50	8.9	ug/Kg	☆	03/14/13 08:53	03/15/13 19:50	1
Naphthalene	59		50	5.5	ug/Kg	☆	03/14/13 08:53	03/15/13 19:50	1
Phenanthrene	2500		10	4.9	ug/Kg	☆	03/14/13 08:53	03/15/13 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	58		30 - 130				03/14/13 08:53	03/15/13 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	3400		100	20	ug/Kg	☆	03/14/13 08:53	03/19/13 12:30	4
Pyrene	2600		100	19	ug/Kg	☆	03/14/13 08:53	03/19/13 12:30	4

Client Sample ID: CV0844B-CS

Lab Sample ID: 680-88118-16

Date Collected: 03/06/13 09:40

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4
Acenaphthylene	98	J	200	25	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4
Anthracene	89		42	21	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4
Benzo[a]anthracene	770		40	20	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4
Benzo[a]pyrene	720	J	52	26	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4
Benzo[b]fluoranthene	1500		61	31	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4
Benzo[g,h,i]perylene	690	J	100	22	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4
Benzo[k]fluoranthene	430		40	18	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4
Chrysene	830		45	23	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4
Dibenz(a,h)anthracene	280		100	21	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4
Fluoranthene	750		100	20	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4
Fluorene	100	U	100	21	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4
Indeno[1,2,3-cd]pyrene	570		100	36	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4
1-Methylnaphthalene	90	J	200	22	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4
2-Methylnaphthalene	360		200	36	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4
Naphthalene	53	J	200	22	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4
Phenanthrene	330		40	20	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4
Pyrene	840		100	19	ug/Kg	☆	03/14/13 08:53	03/15/13 20:05	4

TestAmerica Savannah

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: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0844B-CS

Lab Sample ID: 680-88118-16

Date Collected: 03/06/13 09:40

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 78.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		30 - 130	03/14/13 08:53	03/15/13 20:05	4

Client Sample ID: CV0846A-CS

Lab Sample ID: 680-88118-17

Date Collected: 03/06/13 09:05

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 84.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	52	J	120	23	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
Acenaphthylene	33	J	47	5.8	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
Anthracene	110		9.8	4.9	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
Benzo[a]anthracene	320		9.4	4.6	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
Benzo[a]pyrene	190	J	12	6.1	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
Benzo[b]fluoranthene	350		14	7.1	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
Benzo[g,h,i]perylene	150	J	23	5.1	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
Benzo[k]fluoranthene	180		9.4	4.2	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
Chrysene	340		11	5.3	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
Dibenz(a,h)anthracene	52		23	4.8	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
Fluoranthene	600		23	4.7	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
Fluorene	49		23	4.8	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
Indeno[1,2,3-cd]pyrene	110		23	8.3	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
1-Methylnaphthalene	100		47	5.1	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
2-Methylnaphthalene	180		47	8.3	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
Naphthalene	82		47	5.1	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
Phenanthrene	480		9.4	4.6	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
Pyrene	600		23	4.3	ug/Kg	*	03/14/13 08:53	03/15/13 20:21	1
Surrogate									
o-Terphenyl	79		30 - 130				03/14/13 08:53	03/15/13 20:21	1

Client Sample ID: CV0945A-CS

Lab Sample ID: 680-88118-18

Date Collected: 03/06/13 10:45

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 75.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	*	03/14/13 08:53	03/15/13 20:36	4
Acenaphthylene	100	J	210	27	ug/Kg	*	03/14/13 08:53	03/15/13 20:36	4
Anthracene	84		45	22	ug/Kg	*	03/14/13 08:53	03/15/13 20:36	4
Benzo[a]anthracene	380		43	21	ug/Kg	*	03/14/13 08:53	03/15/13 20:36	4
Benzo[a]pyrene	180	J	55	28	ug/Kg	*	03/14/13 08:53	03/15/13 20:36	4
Benzo[b]fluoranthene	760		65	32	ug/Kg	*	03/14/13 08:53	03/15/13 20:36	4
Benzo[g,h,i]perylene	140	J	110	23	ug/Kg	*	03/14/13 08:53	03/15/13 20:36	4
Benzo[k]fluoranthene	120		43	19	ug/Kg	*	03/14/13 08:53	03/15/13 20:36	4
Chrysene	330		48	24	ug/Kg	*	03/14/13 08:53	03/15/13 20:36	4
Dibenz(a,h)anthracene	59	J	110	22	ug/Kg	*	03/14/13 08:53	03/15/13 20:36	4
Fluoranthene	440		110	21	ug/Kg	*	03/14/13 08:53	03/15/13 20:36	4
Fluorene	110	U	110	22	ug/Kg	*	03/14/13 08:53	03/15/13 20:36	4
Indeno[1,2,3-cd]pyrene	140		110	38	ug/Kg	*	03/14/13 08:53	03/15/13 20:36	4
1-Methylnaphthalene	130	J	210	23	ug/Kg	*	03/14/13 08:53	03/15/13 20:36	4
2-Methylnaphthalene	450		210	38	ug/Kg	*	03/14/13 08:53	03/15/13 20:36	4

TestAmerica Savannah

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: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0945A-CS

Lab Sample ID: 680-88118-18

Date Collected: 03/06/13 10:45

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	140	J	210	23	ug/Kg	☐	03/14/13 08:53	03/15/13 20:36	4
Phenanthrene	310		43	21	ug/Kg	☐	03/14/13 08:53	03/15/13 20:36	4
Pyrene	430		110	20	ug/Kg	☐	03/14/13 08:53	03/15/13 20:36	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	65		30 - 130				03/14/13 08:53	03/15/13 20:36	4

Client Sample ID: CV0960A-CS

Lab Sample ID: 680-88118-19

Date Collected: 03/06/13 10:15

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 81.5

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	☐	03/14/13 08:53	03/15/13 20:51	1
Acenaphthylene	24	J	49	6.1	ug/Kg	☐	03/14/13 08:53	03/15/13 20:51	1
Anthracene	33		10	5.2	ug/Kg	☐	03/14/13 08:53	03/15/13 20:51	1
Benzo[a]anthracene	320		9.8	4.8	ug/Kg	☐	03/14/13 08:53	03/15/13 20:51	1
Benzo[a]pyrene	350	J	13	6.4	ug/Kg	☐	03/14/13 08:53	03/15/13 20:51	1
Benzo[b]fluoranthene	680		15	7.5	ug/Kg	☐	03/14/13 08:53	03/15/13 20:51	1
Benzo[g,h,i]perylene	360	J	25	5.4	ug/Kg	☐	03/14/13 08:53	03/15/13 20:51	1
Benzo[k]fluoranthene	230		9.8	4.4	ug/Kg	☐	03/14/13 08:53	03/15/13 20:51	1
Chrysene	420		11	5.5	ug/Kg	☐	03/14/13 08:53	03/15/13 20:51	1
Dibenz(a,h)anthracene	140		25	5.0	ug/Kg	☐	03/14/13 08:53	03/15/13 20:51	1
Fluoranthene	350		25	4.9	ug/Kg	☐	03/14/13 08:53	03/15/13 20:51	1
Fluorene	25	U	25	5.0	ug/Kg	☐	03/14/13 08:53	03/15/13 20:51	1
Indeno[1,2,3-cd]pyrene	330		25	8.7	ug/Kg	☐	03/14/13 08:53	03/15/13 20:51	1
1-Methylnaphthalene	76		49	5.4	ug/Kg	☐	03/14/13 08:53	03/15/13 20:51	1
2-Methylnaphthalene	160		49	8.7	ug/Kg	☐	03/14/13 08:53	03/15/13 20:51	1
Naphthalene	110		49	5.4	ug/Kg	☐	03/14/13 08:53	03/15/13 20:51	1
Phenanthrene	180		9.8	4.8	ug/Kg	☐	03/14/13 08:53	03/15/13 20:51	1
Pyrene	370		25	4.5	ug/Kg	☐	03/14/13 08:53	03/15/13 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		30 - 130				03/14/13 08:53	03/15/13 20:51	1

Client Sample ID: FM0116A-CS-SP

Lab Sample ID: 680-88118-20

Date Collected: 03/06/13 10:37

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 69.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	580	U	580	120	ug/Kg	☐	03/14/13 08:53	03/15/13 21:06	4
Acenaphthylene	170	J	230	29	ug/Kg	☐	03/14/13 08:53	03/15/13 21:06	4
Anthracene	180		49	24	ug/Kg	☐	03/14/13 08:53	03/15/13 21:06	4
Benzo[a]anthracene	770		46	23	ug/Kg	☐	03/14/13 08:53	03/15/13 21:06	4
Benzo[a]pyrene	550	J	60	30	ug/Kg	☐	03/14/13 08:53	03/15/13 21:06	4
Benzo[b]fluoranthene	1200		71	35	ug/Kg	☐	03/14/13 08:53	03/15/13 21:06	4
Benzo[g,h,i]perylene	400	J	120	25	ug/Kg	☐	03/14/13 08:53	03/15/13 21:06	4
Benzo[k]fluoranthene	450		46	21	ug/Kg	☐	03/14/13 08:53	03/15/13 21:06	4
Chrysene	800		52	26	ug/Kg	☐	03/14/13 08:53	03/15/13 21:06	4

TestAmerica Savannah

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: 680-88118-1
 SDG: 68088118-1

Client Sample ID: FM0116A-CS-SP

Lab Sample ID: 680-88118-20

Date Collected: 03/06/13 10:37

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 69.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Dibenz(a,h)anthracene	120		120	24	ug/Kg	⊛	03/14/13 08:53	03/15/13 21:06	4
Fluoranthene	1300		120	23	ug/Kg	⊛	03/14/13 08:53	03/15/13 21:06	4
Fluorene	120	U	120	24	ug/Kg	⊛	03/14/13 08:53	03/15/13 21:06	4
Indeno[1,2,3-cd]pyrene	350		120	41	ug/Kg	⊛	03/14/13 08:53	03/15/13 21:06	4
1-Methylnaphthalene	170	J	230	25	ug/Kg	⊛	03/14/13 08:53	03/15/13 21:06	4
2-Methylnaphthalene	610		230	41	ug/Kg	⊛	03/14/13 08:53	03/15/13 21:06	4
Naphthalene	230		230	25	ug/Kg	⊛	03/14/13 08:53	03/15/13 21:06	4
Phenanthrene	680		46	23	ug/Kg	⊛	03/14/13 08:53	03/15/13 21:06	4
Pyrene	1100		120	21	ug/Kg	⊛	03/14/13 08:53	03/15/13 21:06	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
<i>o</i> -Terphenyl	88		30 - 130				03/14/13 08:53	03/15/13 21:06	4

TestAmerica Savannah

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: 680-88118-1

SDG Number: 68088118-1

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
3/20/2013 1:33 PM

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

03/20/2013

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: 680-88118-1

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 03/08/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0144A-CS-SP (680-88118-1), CV0144B-CS-SP (680-88118-2), CV0193A-CS-SP (680-88118-3), CV0628A-CS-SP (680-88118-4), CV0628B-CS-SP (680-88118-5), CV0628C-CS-SP (680-88118-6), CV0683A-CS-SP (680-88118-7), CV0683B-CS-SP (680-88118-8), CV0683C-GS-SP (680-88118-9), CV0684A-CS-SP (680-88118-10), CV0684B-CS-SP (680-88118-11), CV0684C-GS-SP (680-88118-12), CV0713A-CS-SP (680-88118-13), CV0713B-CS-SP (680-88118-14), CV0844A-CS (680-88118-15), CV0844B-CS (680-88118-16), CV0846A-CS (680-88118-17), CV0945A-CS (680-88118-18), CV0960A-CS (680-88118-19) and FM0116A-CS-SP (680-88118-20) were analyzed for Semivolatile Organic Compounds by GCMS -Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/14/2013 and analyzed on 03/15/2013 and 03/19/2013.

Samples CV0144A-CS-SP (680-88118-1)[4X], CV0144B-CS-SP (680-88118-2)[4X], CV0193A-CS-SP (680-88118-3)[4X], CV0683A-CS-SP (680-88118-7)[4X], CV0683C-GS-SP (680-88118-9)[4X], CV0684C-GS-SP (680-88118-12)[4X], CV0713A-CS-SP (680-88118-13)[4X], CV0844A-CS (680-88118-15)[4X], CV0844B-CS (680-88118-16)[4X], CV0945A-CS (680-88118-18)[4X] and FM0116A-CS-SP (680-88118-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[a]pyrene recovered outside the recovery criteria for the MS/MSD of sample CV0684B-CS-SP (680-88118-11) in batch 660-135466.

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: 680-88118-1

Sdg Number: 68088118-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88118-1	CV0144A-CS-SP	Solid	03/06/2013 0932	03/08/2013 0921
680-88118-2	CV0144B-CS-SP	Solid	03/06/2013 0952	03/08/2013 0921
680-88118-3	CV0193A-CS-SP	Solid	03/06/2013 1338	03/08/2013 0921
680-88118-4	CV0628A-CS-SP	Solid	03/06/2013 0825	03/08/2013 0921
680-88118-5	CV0628B-CS-SP	Solid	03/06/2013 0830	03/08/2013 0921
680-88118-6	CV0628C-CS-SP	Solid	03/06/2013 0835	03/08/2013 0921
680-88118-7	CV0683A-CS-SP	Solid	03/06/2013 1211	03/08/2013 0921
680-88118-8	CV0683B-CS-SP	Solid	03/06/2013 1220	03/08/2013 0921
680-88118-9	CV0683C-GS-SP	Solid	03/06/2013 1227	03/08/2013 0921
680-88118-10	CV0684A-CS-SP	Solid	03/06/2013 1238	03/08/2013 0921
680-88118-11	CV0684B-CS-SP	Solid	03/06/2013 1250	03/08/2013 0921
680-88118-11MS	CV0684B-CS-SP	Solid	03/06/2013 1250	03/08/2013 0921
680-88118-11MSD	CV0684B-CS-SP	Solid	03/06/2013 1250	03/08/2013 0921
680-88118-12	CV0684C-GS-SP	Solid	03/06/2013 1301	03/08/2013 0921
680-88118-13	CV0713A-CS-SP	Solid	03/06/2013 0857	03/08/2013 0921
680-88118-14	CV0713B-CS-SP	Solid	03/06/2013 0911	03/08/2013 0921
680-88118-15	CV0844A-CS	Solid	03/06/2013 0930	03/08/2013 0921
680-88118-16	CV0844B-CS	Solid	03/06/2013 0940	03/08/2013 0921
680-88118-17	CV0846A-CS	Solid	03/06/2013 0905	03/08/2013 0921
680-88118-18	CV0945A-CS	Solid	03/06/2013 1045	03/08/2013 0921
680-88118-19	CV0960A-CS	Solid	03/06/2013 1015	03/08/2013 0921
680-88118-20	FM0116A-CS-SP	Solid	03/06/2013 1037	03/08/2013 0921

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-1
Sdg Number: 68088118-1

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: 680-88118-1

Sdg Number: 68088118-1

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: 680-88118-1

Sdg Number: 68088118-1

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
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-1

Sdg Number: 68088118-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS Semi VOA					
Prep Batch: 660-135376					
LCS 660-135376/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135376/1-A	Method Blank	T	Solid	3546	
680-88118-1	CV0144A-CS-SP	T	Solid	3546	
680-88118-2	CV0144B-CS-SP	T	Solid	3546	
680-88118-3	CV0193A-CS-SP	T	Solid	3546	
680-88118-4	CV0628A-CS-SP	T	Solid	3546	
680-88118-5	CV0628B-CS-SP	T	Solid	3546	
680-88118-6	CV0628C-CS-SP	T	Solid	3546	
680-88118-7	CV0683A-CS-SP	T	Solid	3546	
680-88118-8	CV0683B-CS-SP	T	Solid	3546	
680-88118-9	CV0683C-GS-SP	T	Solid	3546	
680-88118-10	CV0684A-CS-SP	T	Solid	3546	
680-88118-11	CV0684B-CS-SP	T	Solid	3546	
680-88118-11MS	Matrix Spike	T	Solid	3546	
680-88118-11MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88118-12	CV0684C-GS-SP	T	Solid	3546	
680-88118-13	CV0713A-CS-SP	T	Solid	3546	
680-88118-14	CV0713B-CS-SP	T	Solid	3546	
680-88118-15	CV0844A-CS	T	Solid	3546	
680-88118-15DL	CV0844A-CS	T	Solid	3546	
680-88118-16	CV0844B-CS	T	Solid	3546	
680-88118-17	CV0846A-CS	T	Solid	3546	
680-88118-18	CV0945A-CS	T	Solid	3546	
680-88118-19	CV0960A-CS	T	Solid	3546	
680-88118-20	FM0116A-CS-SP	T	Solid	3546	

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-1

Sdg Number: 68088118-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-135466					
LCS 660-135376/2-A	Lab Control Sample	T	Solid	8270C LL	660-135376
MB 660-135376/1-A	Method Blank	T	Solid	8270C LL	660-135376
680-88118-1	CV0144A-CS-SP	T	Solid	8270C LL	660-135376
680-88118-2	CV0144B-CS-SP	T	Solid	8270C LL	660-135376
680-88118-3	CV0193A-CS-SP	T	Solid	8270C LL	660-135376
680-88118-4	CV0628A-CS-SP	T	Solid	8270C LL	660-135376
680-88118-5	CV0628B-CS-SP	T	Solid	8270C LL	660-135376
680-88118-6	CV0628C-CS-SP	T	Solid	8270C LL	660-135376
680-88118-7	CV0683A-CS-SP	T	Solid	8270C LL	660-135376
680-88118-8	CV0683B-CS-SP	T	Solid	8270C LL	660-135376
680-88118-9	CV0683C-GS-SP	T	Solid	8270C LL	660-135376
680-88118-10	CV0684A-CS-SP	T	Solid	8270C LL	660-135376
680-88118-11	CV0684B-CS-SP	T	Solid	8270C LL	660-135376
680-88118-11MS	Matrix Spike	T	Solid	8270C LL	660-135376
680-88118-11MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135376
680-88118-12	CV0684C-GS-SP	T	Solid	8270C LL	660-135376
680-88118-13	CV0713A-CS-SP	T	Solid	8270C LL	660-135376
680-88118-14	CV0713B-CS-SP	T	Solid	8270C LL	660-135376
680-88118-15	CV0844A-CS	T	Solid	8270C LL	660-135376
680-88118-16	CV0844B-CS	T	Solid	8270C LL	660-135376
680-88118-17	CV0846A-CS	T	Solid	8270C LL	660-135376
680-88118-18	CV0945A-CS	T	Solid	8270C LL	660-135376
680-88118-19	CV0960A-CS	T	Solid	8270C LL	660-135376
680-88118-20	FM0116A-CS-SP	T	Solid	8270C LL	660-135376
Analysis Batch:660-135536					
680-88118-15DL	CV0844A-CS	T	Solid	8270C LL	660-135376

Report Basis

T = Total

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-1

Sdg Number: 68088118-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-135258					
MB 660-135258/1	Method Blank	T	Solid	Moisture	
680-88118-1	CV0144A-CS-SP	T	Solid	Moisture	
680-88118-2	CV0144B-CS-SP	T	Solid	Moisture	
680-88118-3	CV0193A-CS-SP	T	Solid	Moisture	
680-88118-4	CV0628A-CS-SP	T	Solid	Moisture	
680-88118-5	CV0628B-CS-SP	T	Solid	Moisture	
680-88118-6	CV0628C-CS-SP	T	Solid	Moisture	
680-88118-7	CV0683A-CS-SP	T	Solid	Moisture	
680-88118-8	CV0683B-CS-SP	T	Solid	Moisture	
680-88118-9	CV0683C-GS-SP	T	Solid	Moisture	
680-88118-10	CV0684A-CS-SP	T	Solid	Moisture	
680-88118-11	CV0684B-CS-SP	T	Solid	Moisture	
680-88118-11MS	Matrix Spike	T	Solid	Moisture	
680-88118-11MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88118-12	CV0684C-GS-SP	T	Solid	Moisture	
680-88118-13	CV0713A-CS-SP	T	Solid	Moisture	
680-88118-14	CV0713B-CS-SP	T	Solid	Moisture	
680-88118-15	CV0844A-CS	T	Solid	Moisture	
680-88118-16	CV0844B-CS	T	Solid	Moisture	
680-88118-17	CV0846A-CS	T	Solid	Moisture	
680-88118-18	CV0945A-CS	T	Solid	Moisture	
680-88118-19	CV0960A-CS	T	Solid	Moisture	
680-88118-20	FM0116A-CS-SP	T	Solid	Moisture	
680-88118-A-21 MS	Matrix Spike	T	Solid	Moisture	
680-88118-A-21 MSD	Matrix Spike Duplicate	T	Solid	Moisture	

Report Basis

T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-1SDG No.: 68088118-1Instrument ID: BSMA5973 Analysis Batch Number: 135466Lab Sample ID: ICIS 660-135466/3 Client Sample ID: _____Date Analyzed: 03/15/13 12:54 Lab File ID: 1AC15003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.04	Split Peak	cantins	03/15/13 14:45

Lab Sample ID: IC 660-135466/4 Client Sample ID: _____Date Analyzed: 03/15/13 13:09 Lab File ID: 1AC15004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/15/13 14:47

Lab Sample ID: IC 660-135466/5 Client Sample ID: _____Date Analyzed: 03/15/13 13:24 Lab File ID: 1AC15005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/15/13 14:48

Lab Sample ID: IC 660-135466/6 Client Sample ID: _____Date Analyzed: 03/15/13 13:39 Lab File ID: 1AC15006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.02	Split Peak	cantins	03/15/13 14:48

Lab Sample ID: IC 660-135466/7 Client Sample ID: _____Date Analyzed: 03/15/13 13:54 Lab File ID: 1AC15007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/15/13 14:49

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-1SDG No.: 68088118-1Instrument ID: BSMA5973 Analysis Batch Number: 135466Lab Sample ID: IC 660-135466/8 Client Sample ID: _____Date Analyzed: 03/15/13 14:10 Lab File ID: 1AC15008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.04	Split Peak	cantins	03/15/13 14:49

Lab Sample ID: IC 660-135466/9 Client Sample ID: _____Date Analyzed: 03/15/13 14:25 Lab File ID: 1AC15009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.05	Split Peak	cantins	03/15/13 14:50

Lab Sample ID: ICV 660-135466/10 Client Sample ID: _____Date Analyzed: 03/15/13 14:39 Lab File ID: 1AC15010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.45	Baseline Event	cantins	03/15/13 15:02
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/15/13 15:00

Lab Sample ID: LCS 660-135376/2-A Client Sample ID: _____Date Analyzed: 03/15/13 15:32 Lab File ID: 1AC15012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/19/13 10:35

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-1SDG No.: 68088118-1Instrument ID: BSMA5973 Analysis Batch Number: 135466Lab Sample ID: 680-88118-1 Client Sample ID: CV0144A-CS-SPDate Analyzed: 03/15/13 15:47 Lab File ID: 1AC15013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.05	Split Peak	cantins	03/19/13 10:36
Benzo[k]fluoranthene	7.07	Baseline Event	cantins	03/19/13 10:36
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/19/13 10:37

Lab Sample ID: 680-88118-2 Client Sample ID: CV0144B-CS-SPDate Analyzed: 03/15/13 16:02 Lab File ID: 1AC15014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.06	Split Peak	cantins	03/19/13 10:38
Benzo[k]fluoranthene	7.07	Baseline Event	cantins	03/19/13 10:38
Indeno[1,2,3-cd]pyrene	8.04	Split Peak	cantins	03/19/13 10:39

Lab Sample ID: 680-88118-3 Client Sample ID: CV0193A-CS-SPDate Analyzed: 03/15/13 16:17 Lab File ID: 1AC15015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.05	Split Peak	cantins	03/19/13 10:40
Benzo[k]fluoranthene	7.07	Baseline Event	cantins	03/19/13 10:41
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/19/13 10:41

Lab Sample ID: 680-88118-4 Client Sample ID: CV0628A-CS-SPDate Analyzed: 03/15/13 16:33 Lab File ID: 1AC15016.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.06	Split Peak	cantins	03/19/13 10:42
Benzo[k]fluoranthene	7.07	Baseline Event	cantins	03/19/13 10:42
Indeno[1,2,3-cd]pyrene	8.04	Split Peak	cantins	03/19/13 10:43

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-1SDG No.: 68088118-1Instrument ID: BSMA5973 Analysis Batch Number: 135466Lab Sample ID: 680-88118-5 Client Sample ID: CV0628B-CS-SPDate Analyzed: 03/15/13 16:48 Lab File ID: 1AC15017.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.06	Split Peak	cantins	03/19/13 10:46
Benzo[k]fluoranthene	7.07	Baseline Event	cantins	03/19/13 10:46
Indeno[1,2,3-cd]pyrene	8.04	Split Peak	cantins	03/19/13 10:46
Benzo[g,h,i]perylene	8.23	Baseline Event	cantins	03/19/13 10:46

Lab Sample ID: 680-88118-6 Client Sample ID: CV0628C-CS-SPDate Analyzed: 03/15/13 17:03 Lab File ID: 1AC15018.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.06	Split Peak	cantins	03/19/13 10:52
Benzo[k]fluoranthene	7.07	Baseline Event	cantins	03/19/13 10:52
Indeno[1,2,3-cd]pyrene	8.04	Split Peak	cantins	03/19/13 10:51

Lab Sample ID: 680-88118-7 Client Sample ID: CV0683A-CS-SPDate Analyzed: 03/15/13 17:18 Lab File ID: 1AC15019.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.06	Split Peak	cantins	03/19/13 10:54
Benzo[k]fluoranthene	7.07	Baseline Event	cantins	03/19/13 10:54
Indeno[1,2,3-cd]pyrene	8.04	Split Peak	cantins	03/19/13 10:55

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-1SDG No.: 68088118-1Instrument ID: BSMA5973 Analysis Batch Number: 135466Lab Sample ID: 680-88118-8 Client Sample ID: CV0683B-CS-SPDate Analyzed: 03/15/13 17:33 Lab File ID: 1AC15020.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.07	Split Peak	cantins	03/19/13 10:56
Benzo[k]fluoranthene	7.08	Baseline Event	cantins	03/19/13 10:56
Indeno[1,2,3-cd]pyrene	8.04	Split Peak	cantins	03/19/13 10:57
Dibenz(a,h)anthracene	8.06	Baseline Event	cantins	03/19/13 10:57
Benzo[g,h,i]perylene	8.24	Baseline Event	cantins	03/19/13 10:57

Lab Sample ID: 680-88118-9 Client Sample ID: CV0683C-GS-SPDate Analyzed: 03/15/13 17:49 Lab File ID: 1AC15021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.07	Split Peak	cantins	03/19/13 10:59
Benzo[k]fluoranthene	7.08	Baseline Event	cantins	03/19/13 10:59
Indeno[1,2,3-cd]pyrene	8.05	Split Peak	cantins	03/19/13 11:00
Dibenz(a,h)anthracene	8.06	Baseline Event	cantins	03/19/13 10:59

Lab Sample ID: 680-88118-10 Client Sample ID: CV0684A-CS-SPDate Analyzed: 03/15/13 18:04 Lab File ID: 1AC15022.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methylnaphthalene	2.72	Baseline Event	cantins	03/19/13 11:00
Benzo[b]fluoranthene	7.08	Split Peak	cantins	03/19/13 11:01
Benzo[k]fluoranthene	7.09	Baseline Event	cantins	03/19/13 11:02
Indeno[1,2,3-cd]pyrene	8.06	Split Peak	cantins	03/19/13 11:02

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-1SDG No.: 68088118-1Instrument ID: BSMA5973 Analysis Batch Number: 135466Lab Sample ID: 680-88118-11 Client Sample ID: CV0684B-CS-SPDate Analyzed: 03/15/13 18:19 Lab File ID: 1AC15023.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.07	Split Peak	cantins	03/19/13 11:03
Benzo[k]fluoranthene	7.09	Baseline Event	cantins	03/19/13 11:03
Indeno[1,2,3-cd]pyrene	8.06	Split Peak	cantins	03/19/13 11:04

Lab Sample ID: 680-88118-11 MS Client Sample ID: CV0684B-CS-SP MSDate Analyzed: 03/15/13 18:34 Lab File ID: 1AC15024.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.06	Split Peak	cantins	03/19/13 11:05

Lab Sample ID: 680-88118-11 MSD Client Sample ID: CV0684B-CS-SP MSDDate Analyzed: 03/15/13 18:49 Lab File ID: 1AC15025.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.07	Split Peak	cantins	03/19/13 11:05

Lab Sample ID: 680-88118-12 Client Sample ID: CV0684C-GS-SPDate Analyzed: 03/15/13 19:05 Lab File ID: 1AC15026.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.08	Split Peak	cantins	03/19/13 11:10
Benzo[k]fluoranthene	7.09	Baseline Event	cantins	03/19/13 11:10
Indeno[1,2,3-cd]pyrene	8.07	Split Peak	cantins	03/19/13 11:11

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-1SDG No.: 68088118-1Instrument ID: BSMA5973 Analysis Batch Number: 135466Lab Sample ID: 680-88118-13 Client Sample ID: CV0713A-CS-SPDate Analyzed: 03/15/13 19:20 Lab File ID: 1AC15027.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.07	Split Peak	cantins	03/19/13 11:12
Benzo[k]fluoranthene	7.09	Baseline Event	cantins	03/19/13 11:12
Indeno[1,2,3-cd]pyrene	8.06	Split Peak	cantins	03/19/13 11:12

Lab Sample ID: 680-88118-14 Client Sample ID: CV0713B-CS-SPDate Analyzed: 03/15/13 19:35 Lab File ID: 1AC15028.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.07	Split Peak	cantins	03/19/13 11:13
Benzo[k]fluoranthene	7.08	Baseline Event	cantins	03/19/13 11:14
Indeno[1,2,3-cd]pyrene	8.06	Split Peak	cantins	03/19/13 11:14

Lab Sample ID: 680-88118-15 Client Sample ID: CV0844A-CSDate Analyzed: 03/15/13 19:50 Lab File ID: 1AC15029.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.09	Split Peak	cantins	03/19/13 11:19
Benzo[k]fluoranthene	7.10	Baseline Event	cantins	03/19/13 11:19
Indeno[1,2,3-cd]pyrene	8.08	Split Peak	cantins	03/19/13 11:19

Lab Sample ID: 680-88118-16 Client Sample ID: CV0844B-CSDate Analyzed: 03/15/13 20:05 Lab File ID: 1AC15030.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.08	Split Peak	cantins	03/19/13 11:21
Benzo[k]fluoranthene	7.09	Baseline Event	cantins	03/19/13 11:21
Indeno[1,2,3-cd]pyrene	8.06	Split Peak	cantins	03/19/13 11:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-1SDG No.: 68088118-1Instrument ID: BSMA5973 Analysis Batch Number: 135466Lab Sample ID: 680-88118-17 Client Sample ID: CV0846A-CSDate Analyzed: 03/15/13 20:21 Lab File ID: 1AC15031.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.08	Split Peak	cantins	03/19/13 11:22
Benzo[k]fluoranthene	7.09	Baseline Event	cantins	03/19/13 11:22
Indeno[1,2,3-cd]pyrene	8.06	Split Peak	cantins	03/19/13 11:22

Lab Sample ID: 680-88118-18 Client Sample ID: CV0945A-CSDate Analyzed: 03/15/13 20:36 Lab File ID: 1AC15032.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.08	Split Peak	cantins	03/19/13 11:23
Benzo[k]fluoranthene	7.09	Baseline Event	cantins	03/19/13 11:23
Indeno[1,2,3-cd]pyrene	8.06	Split Peak	cantins	03/19/13 11:24

Lab Sample ID: 680-88118-19 Client Sample ID: CV0960A-CSDate Analyzed: 03/15/13 20:51 Lab File ID: 1AC15033.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.08	Split Peak	cantins	03/19/13 11:25
Benzo[k]fluoranthene	7.09	Baseline Event	cantins	03/19/13 11:26
Indeno[1,2,3-cd]pyrene	8.07	Split Peak	cantins	03/19/13 11:28

Lab Sample ID: 680-88118-20 Client Sample ID: FM0116A-CS-SPDate Analyzed: 03/15/13 21:06 Lab File ID: 1AC15034.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.08	Split Peak	cantins	03/19/13 11:29
Benzo[k]fluoranthene	7.09	Baseline Event	cantins	03/19/13 11:29
Indeno[1,2,3-cd]pyrene	8.06	Split Peak	cantins	03/19/13 11:30

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-1SDG No.: 68088118-1Instrument ID: BSMC5973 Analysis Batch Number: 134776Lab Sample ID: IC 660-134776/3 Client Sample ID: _____Date Analyzed: 02/22/13 11:57 Lab File ID: 1CB22003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:13

Lab Sample ID: IC 660-134776/4 Client Sample ID: _____Date Analyzed: 02/22/13 12:16 Lab File ID: 1CB22004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: IC 660-134776/5 Client Sample ID: _____Date Analyzed: 02/22/13 12:34 Lab File ID: 1CB22005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: IC 660-134776/6 Client Sample ID: _____Date Analyzed: 02/22/13 12:53 Lab File ID: 1CB22006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: ICIS 660-134776/7 Client Sample ID: _____Date Analyzed: 02/22/13 13:11 Lab File ID: 1CB22007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:11

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-1

SDG No.: 68088118-1

Instrument ID: BSMC5973 Analysis Batch Number: 134776

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

Date Analyzed: 02/22/13 13:29 Lab File ID: 1CB22008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:15

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

Date Analyzed: 02/22/13 13:48 Lab File ID: 1CB22009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/22/13 14:15

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

Date Analyzed: 02/22/13 14:06 Lab File ID: 1CB22010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-1SDG No.: 68088118-1Instrument ID: BSMC5973 Analysis Batch Number: 135536Lab Sample ID: CCVIS 660-135536/3 Client Sample ID: _____Date Analyzed: 03/19/13 11:18 Lab File ID: 1CC19003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/19/13 11:41

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.: 680-88118-1

SDG No.: 68088118-1

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0144A-CS-SP	680-88118-1	73
CV0144B-CS-SP	680-88118-2	89
CV0193A-CS-SP	680-88118-3	90
CV0628A-CS-SP	680-88118-4	70
CV0628B-CS-SP	680-88118-5	69
CV0628C-CS-SP	680-88118-6	62
CV0683A-CS-SP	680-88118-7	74
CV0683B-CS-SP	680-88118-8	62
CV0683C-GS-SP	680-88118-9	80
CV0684A-CS-SP	680-88118-10	54
CV0684B-CS-SP	680-88118-11	62
CV0684C-GS-SP	680-88118-12	67
CV0713A-CS-SP	680-88118-13	80
CV0713B-CS-SP	680-88118-14	69
CV0844A-CS	680-88118-15	58
CV0844B-CS	680-88118-16	81
CV0846A-CS	680-88118-17	79
CV0945A-CS	680-88118-18	65
CV0960A-CS	680-88118-19	67
FM0116A-CS-SP	680-88118-20	88
	MB 660-135376/1-A	83
	LCS 660-135376/2-A	90
CV0684B-CS-SP MS	680-88118-11 MS	60
CV0684B-CS-SP MSD	680-88118-11 MSD	65

OTPH = o-Terphenyl

QC LIMITS
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.: 680-88118-1
 SDG No.: 68088118-1
 Matrix: Solid Level: Low Lab File ID: 1AC15012.D
 Lab ID: LCS 660-135376/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	649	503	78	39-130	
Acenaphthylene	649	497	77	38-130	
Anthracene	649	550	85	37-130	
Benzo[a]anthracene	649	593	91	40-130	
Benzo[a]pyrene	649	518	80	49-130	
Benzo[b]fluoranthene	649	572	88	37-130	
Benzo[g,h,i]perylene	649	547	84	32-130	
Benzo[k]fluoranthene	649	549	85	32-130	
Chrysene	649	557	86	41-130	
Dibenz(a,h)anthracene	649	561	86	27-130	
Fluoranthene	649	590	91	40-130	
Fluorene	649	529	82	40-130	
Indeno[1,2,3-cd]pyrene	649	567	87	30-130	
1-Methylnaphthalene	649	579	89	31-130	
2-Methylnaphthalene	649	497	77	33-130	
Naphthalene	649	512	79	36-130	
Phenanthrene	649	536	83	42-130	
Pyrene	649	520	80	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Matrix: Solid Level: Low Lab File ID: 1AC15024.D
 Lab ID: 680-88118-11 MS Client ID: CV0684B-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	825	120 U	477	58	39-130	
Acenaphthylene	825	34 J	449	50	38-130	
Anthracene	825	33	497	56	37-130	
Benzo[a]anthracene	825	200	656	55	40-130	
Benzo[a]pyrene	825	120	434	38	49-130	F
Benzo[b]fluoranthene	825	280	632	43	37-130	
Benzo[g,h,i]perylene	825	120	483	44	32-130	
Benzo[k]fluoranthene	825	58	397	41	32-130	
Chrysene	825	180	568	47	41-130	
Dibenz(a,h)anthracene	825	52	510	56	27-130	
Fluoranthene	825	170	600	53	40-130	
Fluorene	825	25 U	534	65	40-130	
Indeno[1,2,3-cd]pyrene	825	110	478	45	30-130	
1-Methylnaphthalene	825	78	651	69	31-130	
2-Methylnaphthalene	825	150	565	50	33-130	
Naphthalene	825	96	466	45	36-130	
Phenanthrene	825	180	732	67	42-130	
Pyrene	825	170	687	63	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Matrix: Solid Level: Low Lab File ID: 1AC15025.D
 Lab ID: 680-88118-11 MSD Client ID: CV0684B-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	825	475	58	1	40	39-130	
Acenaphthylene	825	437	49	3	40	38-130	
Anthracene	825	558	64	12	40	37-130	
Benzo[a]anthracene	825	711	62	8	40	40-130	
Benzo[a]pyrene	825	477	43	9	40	49-130	F
Benzo[b]fluoranthene	825	645	44	2	40	37-130	
Benzo[g,h,i]perylene	825	527	49	9	40	32-130	
Benzo[k]fluoranthene	825	482	51	19	40	32-130	
Chrysene	825	648	57	13	40	41-130	
Dibenz(a,h)anthracene	825	569	63	11	40	27-130	
Fluoranthene	825	675	62	12	40	40-130	
Fluorene	825	516	63	3	40	40-130	
Indeno[1,2,3-cd]pyrene	825	568	56	17	40	30-130	
1-Methylnaphthalene	825	760	83	15	40	31-130	
2-Methylnaphthalene	825	590	53	4	40	33-130	
Naphthalene	825	547	55	16	40	36-130	
Phenanthrene	825	768	72	5	40	42-130	
Pyrene	825	761	72	10	40	44-130	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Lab File ID: 1AC15011.D Lab Sample ID: MB 660-135376/1-A
 Matrix: Solid Date Extracted: 03/14/2013 08:53
 Instrument ID: BSMA5973 Date Analyzed: 03/15/2013 15:17
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135376/2-A	1AC15012.D	03/15/2013 15:32
CV0144A-CS-SP	680-88118-1	1AC15013.D	03/15/2013 15:47
CV0144B-CS-SP	680-88118-2	1AC15014.D	03/15/2013 16:02
CV0193A-CS-SP	680-88118-3	1AC15015.D	03/15/2013 16:17
CV0628A-CS-SP	680-88118-4	1AC15016.D	03/15/2013 16:33
CV0628B-CS-SP	680-88118-5	1AC15017.D	03/15/2013 16:48
CV0628C-CS-SP	680-88118-6	1AC15018.D	03/15/2013 17:03
CV0683A-CS-SP	680-88118-7	1AC15019.D	03/15/2013 17:18
CV0683B-CS-SP	680-88118-8	1AC15020.D	03/15/2013 17:33
CV0683C-GS-SP	680-88118-9	1AC15021.D	03/15/2013 17:49
CV0684A-CS-SP	680-88118-10	1AC15022.D	03/15/2013 18:04
CV0684B-CS-SP	680-88118-11	1AC15023.D	03/15/2013 18:19
CV0684B-CS-SP MS	680-88118-11 MS	1AC15024.D	03/15/2013 18:34
CV0684B-CS-SP MSD	680-88118-11 MSD	1AC15025.D	03/15/2013 18:49
CV0684C-GS-SP	680-88118-12	1AC15026.D	03/15/2013 19:05
CV0713A-CS-SP	680-88118-13	1AC15027.D	03/15/2013 19:20
CV0713B-CS-SP	680-88118-14	1AC15028.D	03/15/2013 19:35
CV0844A-CS	680-88118-15	1AC15029.D	03/15/2013 19:50
CV0844B-CS	680-88118-16	1AC15030.D	03/15/2013 20:05
CV0846A-CS	680-88118-17	1AC15031.D	03/15/2013 20:21
CV0945A-CS	680-88118-18	1AC15032.D	03/15/2013 20:36
CV0960A-CS	680-88118-19	1AC15033.D	03/15/2013 20:51
FM0116A-CS-SP	680-88118-20	1AC15034.D	03/15/2013 21:06
CV0844A-CS DL	680-88118-15 DL	1CC19006.D	03/19/2013 12:30

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

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Lab File ID: 1AC15002.D DFTPP Injection Date: 03/15/2013
 Instrument ID: BSMA5973 DFTPP Injection Time: 12:38
 Analysis Batch No.: 135466

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	74.2
68	Less than 2.0 % of mass 69	0.9 (1.5)1
69	Mass 69 relative abundance	60.2
70	Less than 2.0 % of mass 69	0.4 (0.7)1
127	10.0 - 80.0 % of mass 198	48.9
197	Less than 2.0 % of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.6
275	10.0 - 60.0 % of mass 198	24.1
365	Greater than 1.0 % of mass 198	5.4
441	Present but less than mass 443	7.7
442	Greater than 50.0 % of mass 198	57.8
443	15.0 - 24.0 % of mass 442	11.6 (20.0)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-135466/3	1AC15003.D	03/15/2013	12:54
	IC 660-135466/4	1AC15004.D	03/15/2013	13:09
	IC 660-135466/5	1AC15005.D	03/15/2013	13:24
	IC 660-135466/6	1AC15006.D	03/15/2013	13:39
	IC 660-135466/7	1AC15007.D	03/15/2013	13:54
	IC 660-135466/8	1AC15008.D	03/15/2013	14:10
	IC 660-135466/9	1AC15009.D	03/15/2013	14:25
	ICV 660-135466/10	1AC15010.D	03/15/2013	14:39
	MB 660-135376/1-A	1AC15011.D	03/15/2013	15:17
	LCS 660-135376/2-A	1AC15012.D	03/15/2013	15:32
CV0144A-CS-SP	680-88118-1	1AC15013.D	03/15/2013	15:47
CV0144B-CS-SP	680-88118-2	1AC15014.D	03/15/2013	16:02
CV0193A-CS-SP	680-88118-3	1AC15015.D	03/15/2013	16:17
CV0628A-CS-SP	680-88118-4	1AC15016.D	03/15/2013	16:33
CV0628B-CS-SP	680-88118-5	1AC15017.D	03/15/2013	16:48
CV0628C-CS-SP	680-88118-6	1AC15018.D	03/15/2013	17:03
CV0683A-CS-SP	680-88118-7	1AC15019.D	03/15/2013	17:18
CV0683B-CS-SP	680-88118-8	1AC15020.D	03/15/2013	17:33
CV0683C-GS-SP	680-88118-9	1AC15021.D	03/15/2013	17:49
CV0684A-CS-SP	680-88118-10	1AC15022.D	03/15/2013	18:04
CV0684B-CS-SP	680-88118-11	1AC15023.D	03/15/2013	18:19
CV0684B-CS-SP MS	680-88118-11 MS	1AC15024.D	03/15/2013	18:34
CV0684B-CS-SP MSD	680-88118-11 MSD	1AC15025.D	03/15/2013	18:49

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

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Lab File ID: 1AC15002.D DFTPP Injection Date: 03/15/2013
 Instrument ID: BSMA5973 DFTPP Injection Time: 12:38
 Analysis Batch No.: 135466

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	74.2
68	Less than 2.0 % of mass 69	0.9 (1.5)1
69	Mass 69 relative abundance	60.2
70	Less than 2.0 % of mass 69	0.4 (0.7)1
127	10.0 - 80.0 % of mass 198	48.9
197	Less than 2.0 % of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.6
275	10.0 - 60.0 % of mass 198	24.1
365	Greater than 1.0 % of mass 198	5.4
441	Present but less than mass 443	7.7
442	Greater than 50.0 % of mass 198	57.8
443	15.0 - 24.0 % of mass 442	11.6 (20.0)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
CV0684C-GS-SP	680-88118-12	1AC15026.D	03/15/2013	19:05
CV0713A-CS-SP	680-88118-13	1AC15027.D	03/15/2013	19:20
CV0713B-CS-SP	680-88118-14	1AC15028.D	03/15/2013	19:35
CV0844A-CS	680-88118-15	1AC15029.D	03/15/2013	19:50
CV0844B-CS	680-88118-16	1AC15030.D	03/15/2013	20:05
CV0846A-CS	680-88118-17	1AC15031.D	03/15/2013	20:21
CV0945A-CS	680-88118-18	1AC15032.D	03/15/2013	20:36
CV0960A-CS	680-88118-19	1AC15033.D	03/15/2013	20:51
FM0116A-CS-SP	680-88118-20	1AC15034.D	03/15/2013	21:06

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

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Lab File ID: 1CB22002.D DFTPP Injection Date: 02/22/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:41
 Analysis Batch No.: 134776

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	42.3
68	Less than 2.0 % of mass 69	0.6 (1.1)1
69	Mass 69 relative abundance	59.2
70	Less than 2.0 % of mass 69	0.3 (0.4)1
127	10.0 - 80.0 % of mass 198	53.6
197	Less than 2.0 % of mass 198	1.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	8.6
275	10.0 - 60.0 % of mass 198	19.2
365	Greater than 1.0 % of mass 198	2.0
441	Present but less than mass 443	7.5
442	Greater than 50.0 % of mass 198	52.1
443	15.0 - 24.0 % of mass 442	8.7 (16.7)2

1-Value is % mass 69

2-Value is % mass 442

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Lab File ID: 1CC19002.D DFTPP Injection Date: 03/19/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 10:57
 Analysis Batch No.: 135536

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	34.6
68	Less than 2.0 % of mass 69	0.9 (1.9)1
69	Mass 69 relative abundance	46.8
70	Less than 2.0 % of mass 69	0.4 (0.8)1
127	10.0 - 80.0 % of mass 198	46.1
197	Less than 2.0 % of mass 198	0.5
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.6
275	10.0 - 60.0 % of mass 198	22.6
365	Greater than 1.0 % of mass 198	2.5
441	Present but less than mass 443	12.9
442	Greater than 50.0 % of mass 198	80.5
443	15.0 - 24.0 % of mass 442	15.9 (19.7)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135536/3	1CC19003.D	03/19/2013	11:18
CV0844A-CS DL	680-88118-15 DL	1CC19006.D	03/19/2013	12:30

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

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Sample No.: ICIS 660-135466/3 Date Analyzed: 03/15/2013 12:54
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1AC15003.D Heated Purge: (Y/N) N
 Calibration ID: 2833

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	466294	2.30	299519	3.32	466296	4.25	
UPPER LIMIT	932588	2.80	599038	3.82	932592	4.75	
LOWER LIMIT	233147	1.80	149760	2.82	233148	3.75	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-135466/10		495704	2.31	291089	3.33	473626	4.25
MB 660-135376/1-A		445360	2.30	344611	3.33	488679	4.25
LCS 660-135376/2-A		466661	2.30	322394	3.32	444410	4.25
680-88118-1	CV0144A-CS-SP	354631	2.30	256746	3.32	405950	4.25
680-88118-2	CV0144B-CS-SP	366059	2.30	272326	3.32	436381	4.25
680-88118-3	CV0193A-CS-SP	367382	2.31	275134	3.33	430858	4.25
680-88118-4	CV0628A-CS-SP	410835	2.30	288899	3.32	431346	4.25
680-88118-5	CV0628B-CS-SP	397138	2.30	282077	3.32	431918	4.25
680-88118-6	CV0628C-CS-SP	434557	2.30	324995	3.32	467100	4.25
680-88118-7	CV0683A-CS-SP	394553	2.31	305126	3.33	495363	4.25
680-88118-8	CV0683B-CS-SP	411063	2.31	281432	3.33	407116	4.25
680-88118-9	CV0683C-GS-SP	361339	2.31	285040	3.33	424416	4.26
680-88118-10	CV0684A-CS-SP	445428	2.31	370545	3.33	550426	4.26
680-88118-11	CV0684B-CS-SP	370075	2.31	281759	3.33	432787	4.25
680-88118-11 MS	CV0684B-CS-SP MS	449001	2.31	310548	3.33	468978	4.26
680-88118-11 MSD	CV0684B-CS-SP MSD	450087	2.31	337225	3.33	444488	4.26
680-88118-12	CV0684C-GS-SP	424081	2.31	357872	3.33	558637	4.26
680-88118-13	CV0713A-CS-SP	376152	2.31	297526	3.33	500100	4.26
680-88118-14	CV0713B-CS-SP	454777	2.31	350365	3.33	575885	4.26
680-88118-15	CV0844A-CS	452929	2.31	348027	3.33	508597	4.26
680-88118-16	CV0844B-CS	372075	2.31	304290	3.33	492761	4.26
680-88118-17	CV0846A-CS	426751	2.31	347491	3.34	561797	4.27
680-88118-18	CV0945A-CS	486888	2.31	394643	3.34	676011	4.26
680-88118-19	CV0960A-CS	415955	2.31	320167	3.33	473351	4.26
680-88118-20	FM0116A-CS-SP	381522	2.31	290227	3.34	391941	4.26

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

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Sample No.: ICIS 660-135466/3 Date Analyzed: 03/15/2013 12:54
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1AC15003.D Heated Purge: (Y/N) N
 Calibration ID: 2833

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	425528	6.25	422731	7.33		
UPPER LIMIT	851056	6.75	845462	7.83		
LOWER LIMIT	212764	5.75	211366	6.83		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-135466/10		433094	6.24	475583	7.33	
MB 660-135376/1-A		398865	6.24	419045	7.33	
LCS 660-135376/2-A		461531	6.24	497063	7.33	
680-88118-1	CV0144A-CS-SP	370486	6.24	381694	7.33	
680-88118-2	CV0144B-CS-SP	385150	6.25	387337	7.34	
680-88118-3	CV0193A-CS-SP	346521	6.25	353577	7.34	
680-88118-4	CV0628A-CS-SP	261681	6.25	278845	7.34	
680-88118-5	CV0628B-CS-SP	309750	6.25	330715	7.34	
680-88118-6	CV0628C-CS-SP	263659	6.25	293972	7.34	
680-88118-7	CV0683A-CS-SP	389946	6.25	392506	7.35	
680-88118-8	CV0683B-CS-SP	282180	6.25	330703	7.35	
680-88118-9	CV0683C-GS-SP	290665	6.25	375472	7.35	
680-88118-10	CV0684A-CS-SP	436207	6.26	463741	7.36	
680-88118-11	CV0684B-CS-SP	323520	6.26	386560	7.36	
680-88118-11 MS	CV0684B-CS-SP MS	362797	6.26	409387	7.36	
680-88118-11 MSD	CV0684B-CS-SP MSD	310596	6.26	403663	7.36	
680-88118-12	CV0684C-GS-SP	433191	6.27	515661	7.36	
680-88118-13	CV0713A-CS-SP	385508	6.26	389625	7.36	
680-88118-14	CV0713B-CS-SP	423448	6.26	423846	7.36	
680-88118-15	CV0844A-CS	426726	6.27	475480	7.37	
680-88118-16	CV0844B-CS	376014	6.27	413039	7.36	
680-88118-17	CV0846A-CS	398671	6.27	417697	7.36	
680-88118-18	CV0945A-CS	519562	6.27	526046	7.37	
680-88118-19	CV0960A-CS	361121	6.27	420172	7.36	
680-88118-20	FM0116A-CS-SP	312198	6.26	377639	7.36	

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

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N
 Calibration ID: 2760

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

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

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N
 Calibration ID: 2760

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

CRY = Chrysene-d12
 PRY = Perylene-d12

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Sample No.: CCVIS 660-135536/3 Date Analyzed: 03/19/2013 11:18
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC19003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	865475	3.75	693688	4.83	1269350	5.78	
UPPER LIMIT	1730950	4.25	1387376	5.33	2538700	6.28	
LOWER LIMIT	432738	3.25	346844	4.33	634675	5.28	
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88118-15 DL	CV0844A-CS DL	1189549	3.74	931609	4.83	1738024	5.78

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

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Sample No.: CCVIS 660-135536/3 Date Analyzed: 03/19/2013 11:18
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC19003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1624187	7.72	1682198	8.91		
UPPER LIMIT	3248374	8.22	3364396	9.41		
LOWER LIMIT	812094	7.22	841099	8.41		
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-88118-15 DL	CV0844A-CS DL	2214072	7.72	2248755	8.90	

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 I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0144A-CS-SP Lab Sample ID: 680-88118-1
 Matrix: Solid Lab File ID: 1AC15013.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 09:32
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.12(g) Date Analyzed: 03/15/2013 15:47
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 22.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	180	J	510	100
208-96-8	Acenaphthylene	160	J	200	25
120-12-7	Anthracene	200		43	21
56-55-3	Benzo[a]anthracene	670		41	20
50-32-8	Benzo[a]pyrene	420		53	26
205-99-2	Benzo[b]fluoranthene	1100		62	31
191-24-2	Benzo[g,h,i]perylene	280		100	22
207-08-9	Benzo[k]fluoranthene	160		41	18
218-01-9	Chrysene	650		46	23
53-70-3	Dibenz(a,h)anthracene	110		100	21
206-44-0	Fluoranthene	870		100	20
86-73-7	Fluorene	150		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	240		100	36
90-12-0	1-Methylnaphthalene	220		200	22
91-57-6	2-Methylnaphthalene	540		200	36
91-20-3	Naphthalene	220		200	22
85-01-8	Phenanthrene	790		41	20
129-00-0	Pyrene	720		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	73		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15013.D
 Lab Smp Id: 680-88118-A-1-A Client Smp ID: CV0144A-CS-SP
 Inj Date : 15-MAR-2013 15:47
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-1-a
 Misc Info : 680-88118-A-1-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 13
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	22.083	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.301	2.303	(1.000)	354631	40.0000	
* 6 Acenaphthene-d10	164		3.321	3.324	(1.000)	256746	40.0000	
* 10 Phenanthrene-d10	188		4.246	4.248	(1.000)	405950	40.0000	
\$ 14 o-Terphenyl	230		4.518	4.526	(1.064)	9185	1.82396	619.2894
* 18 Chrysene-d12	240		6.238	6.246	(1.000)	370486	40.0000	
* 23 Perylene-d12	264		7.333	7.330	(1.000)	381694	40.0000	
2 Naphthalene	128		2.312	2.314	(1.005)	5360	0.65420	222.1215
3 2-Methylnaphthalene	141		2.718	2.715	(1.181)	3499	1.57703	535.4497
4 1-Methylnaphthalene	142		2.766	2.773	(1.202)	3016	0.64017	217.3570
5 Acenaphthylene	152		3.236	3.238	(0.974)	2873	0.48013	163.0168
7 Acenaphthene	154		3.337	3.345	(1.005)	530	0.51796	175.8612(Q)
9 Fluorene	166		3.647	3.649	(1.098)	1402	0.42898	145.6511
11 Phenanthrene	178		4.256	4.264	(1.002)	24086	2.34102	794.8449
12 Anthracene	178		4.294	4.296	(1.011)	5762	0.57757	196.1033

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.449	4.456 (1.048)		3406	0.38953	132.2560
15 Fluoranthene	202	5.106	5.113 (1.203)		26191	2.57524	874.3715
16 Pyrene	202	5.271	5.279 (0.845)		22409	2.10954	716.2519
17 Benzo(a)anthracene	228	6.233	6.235 (0.999)		19365	1.97084	669.1576
19 Chrysene	228	6.254	6.262 (1.003)		18421	1.91971	651.7982
20 Benzo(b)fluoranthene	252	7.050	7.052 (0.961)		20370	3.13945	1065.9378(M)
21 Benzo(k)fluoranthene	252	7.066	7.074 (0.964)		4774	0.46368	157.4335(QM)
22 Benzo(a)pyrene	252	7.280	7.282 (0.993)		11029	1.23125	418.0453
24 Indeno(1,2,3-cd)pyrene	276	8.028	8.035 (1.095)		5624	0.69583	236.2543(M)
25 Dibenzo(a,h)anthracene	278	8.038	8.045 (1.096)		2626	0.32782	111.3048
26 Benzo(g,h,i)perylene	276	8.220	8.222 (1.121)		6792	0.83483	283.4487

QC Flag Legend

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

Data File: 1AC15013.D

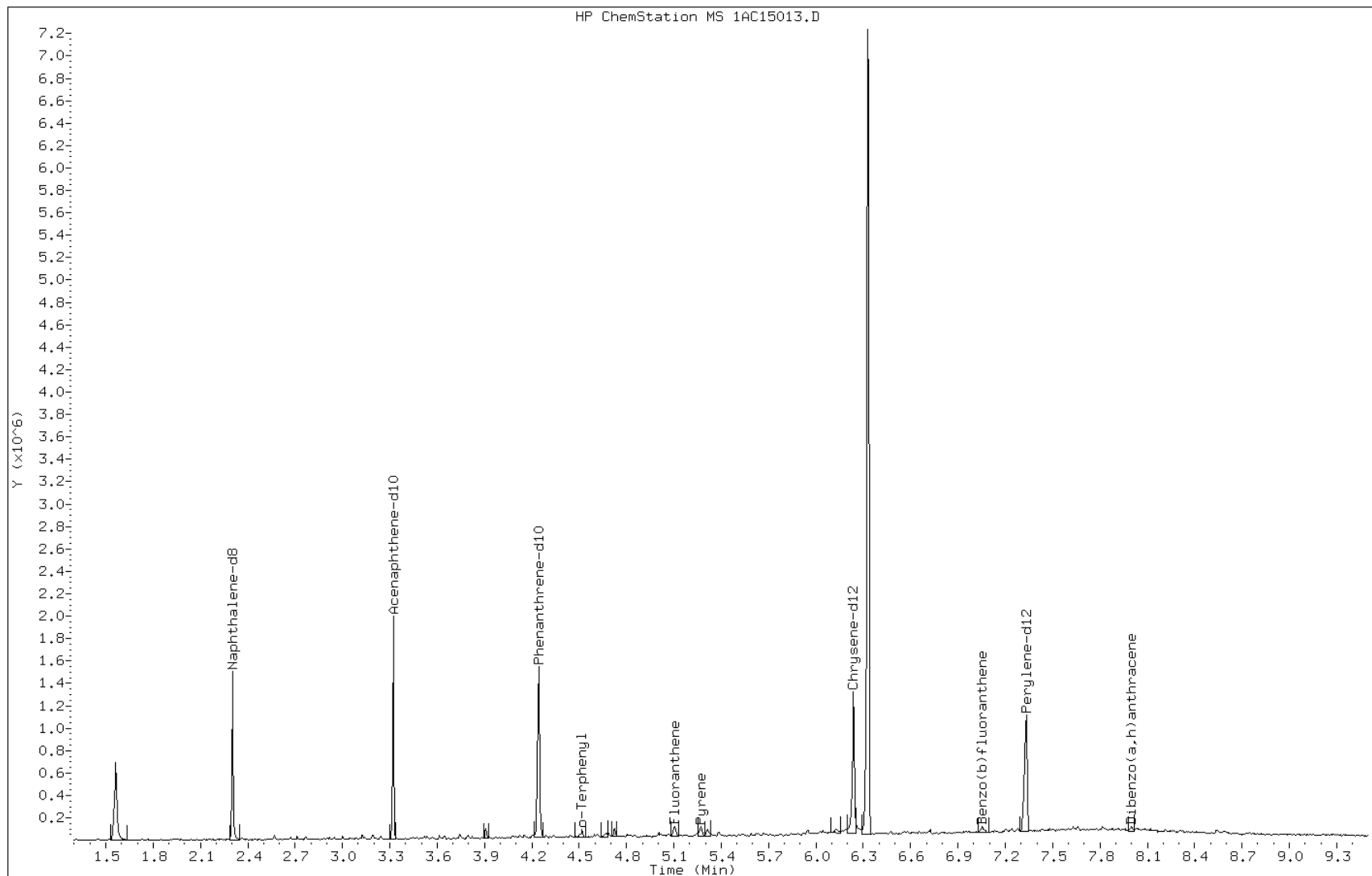
Date: 15-MAR-2013 15:47

Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

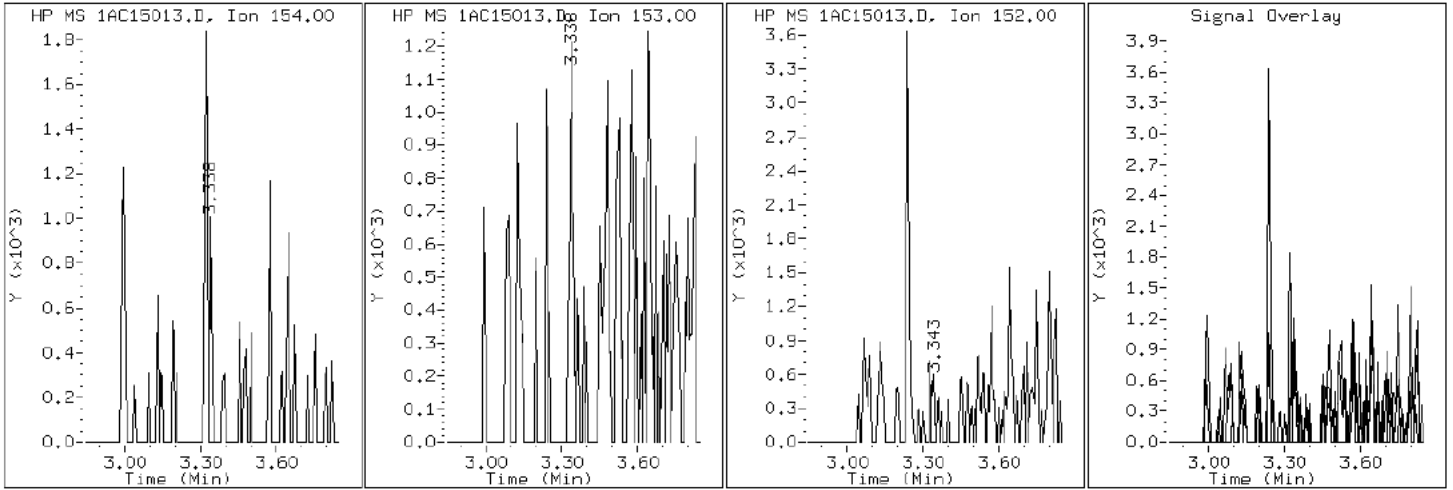
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

7 Acenaphthene



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

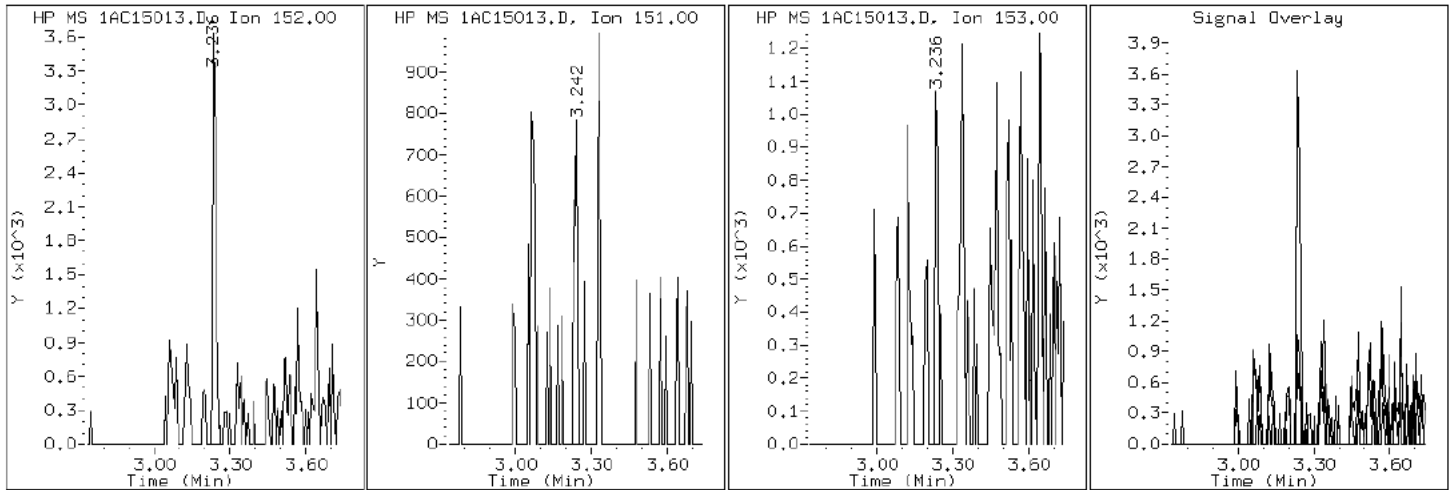
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

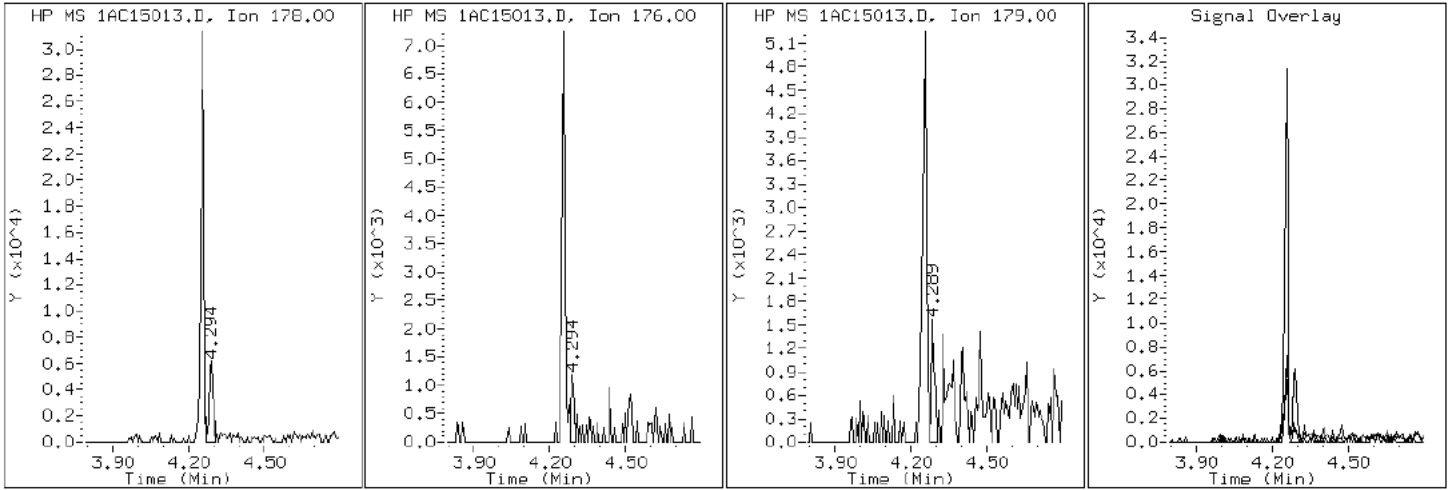
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

12 Anthracene



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

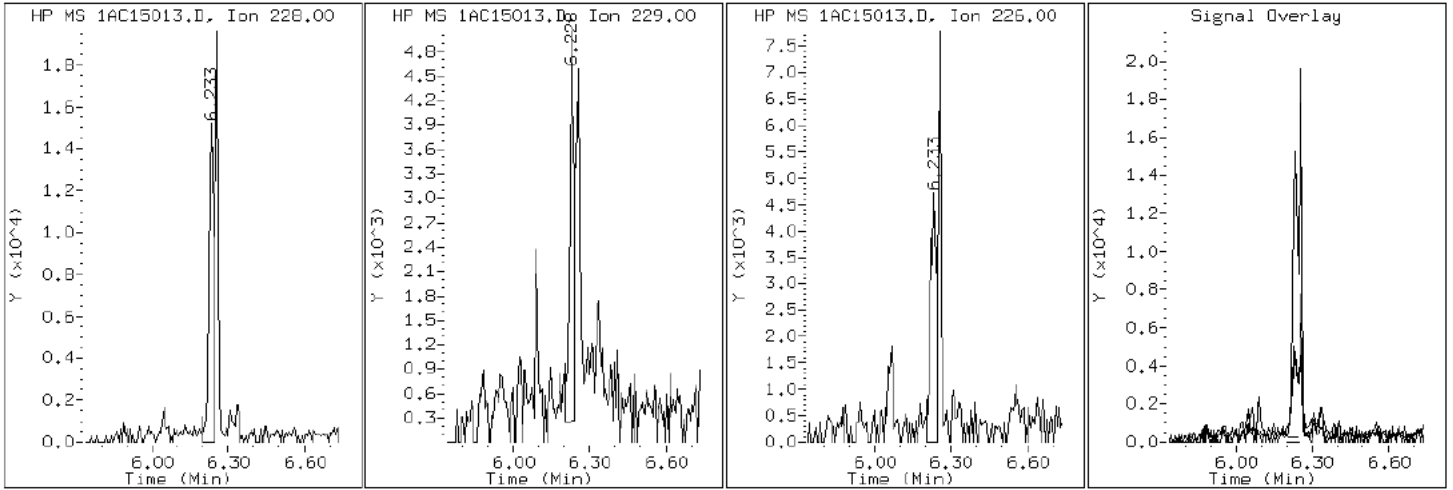
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

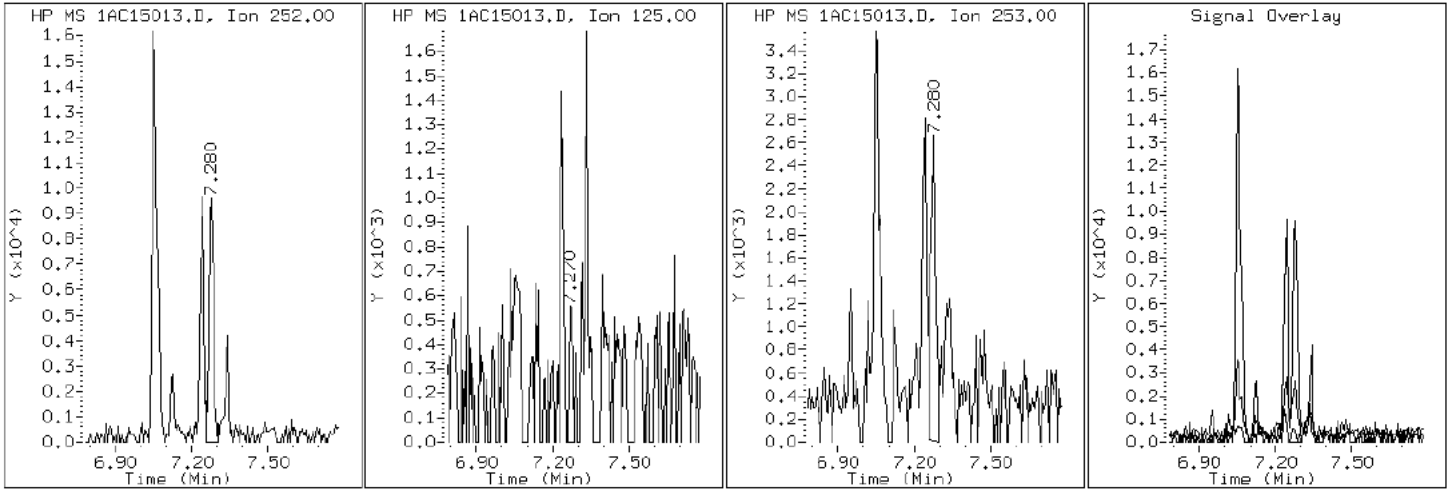
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

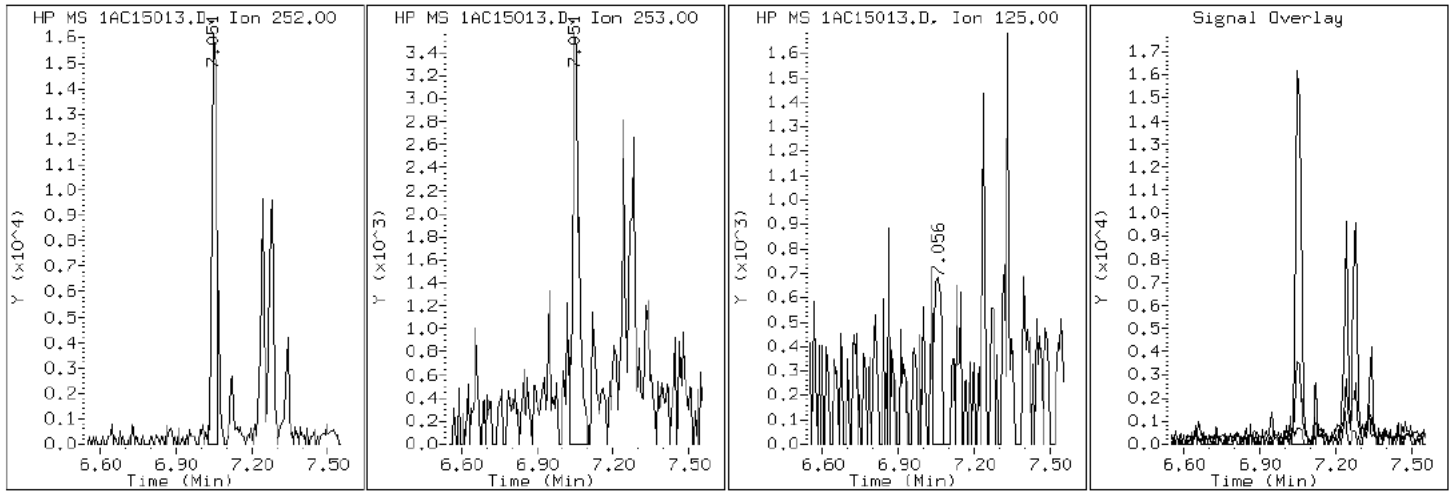
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

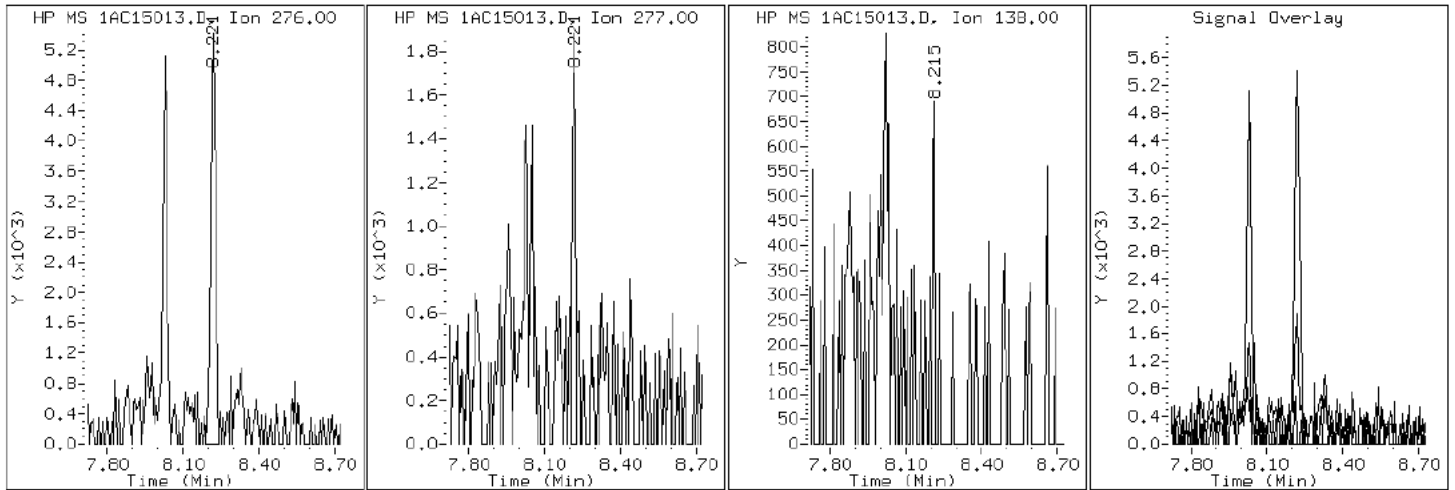
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

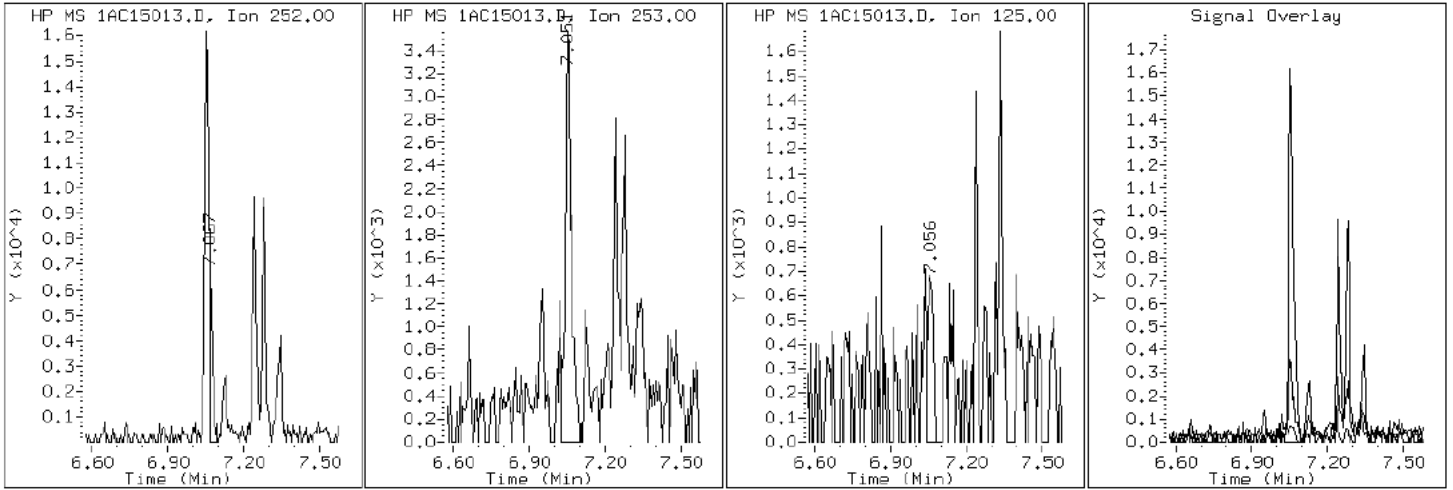
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

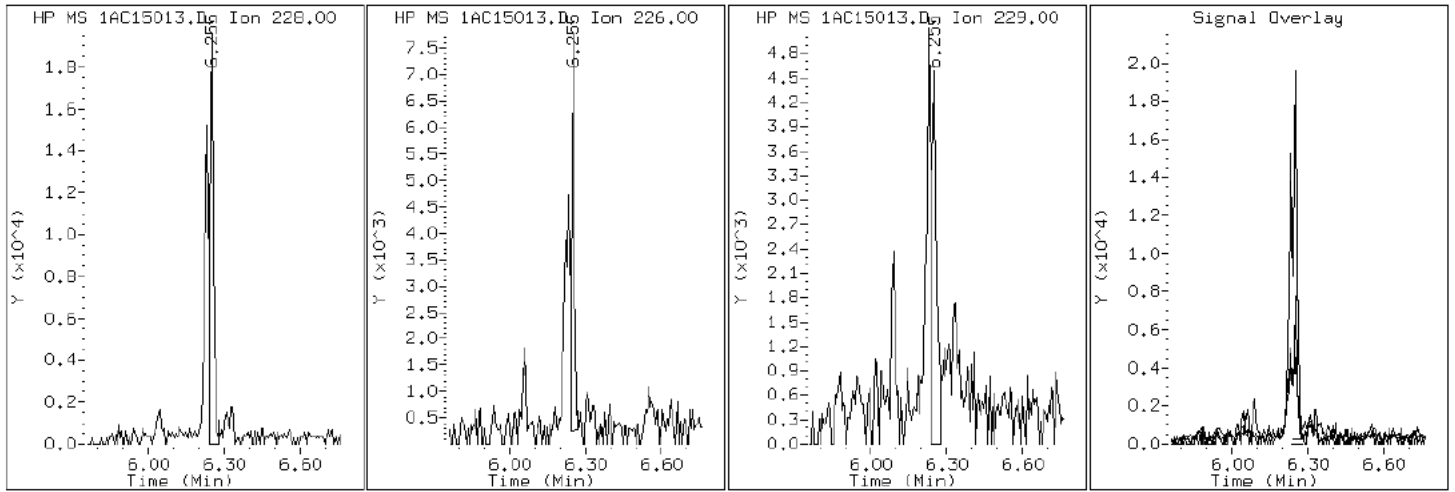
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

19 Chrysene



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

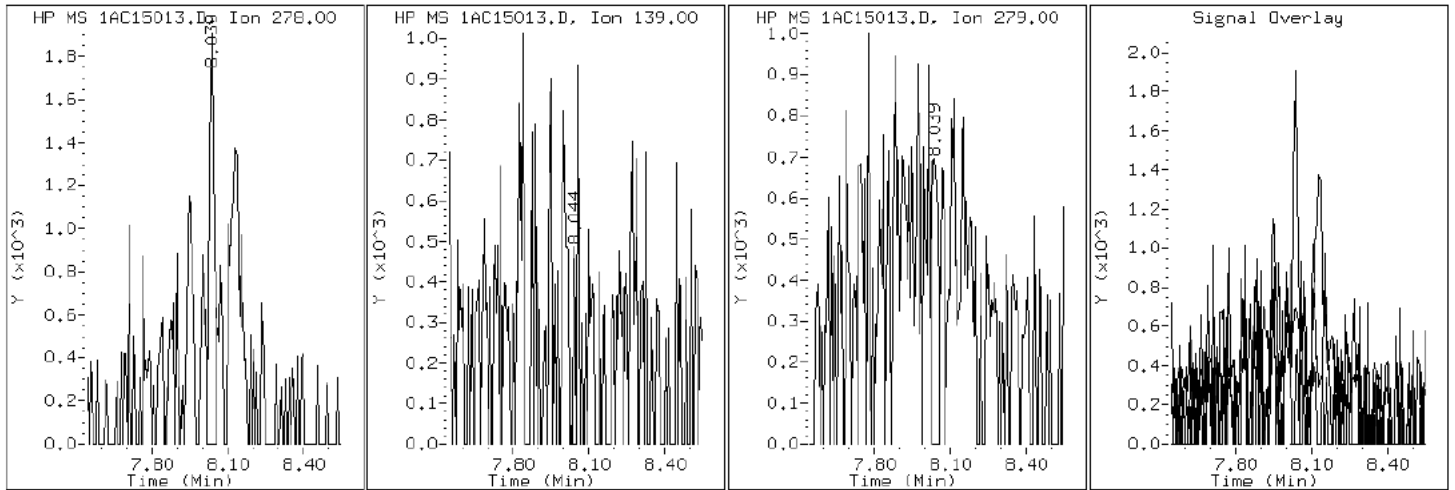
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

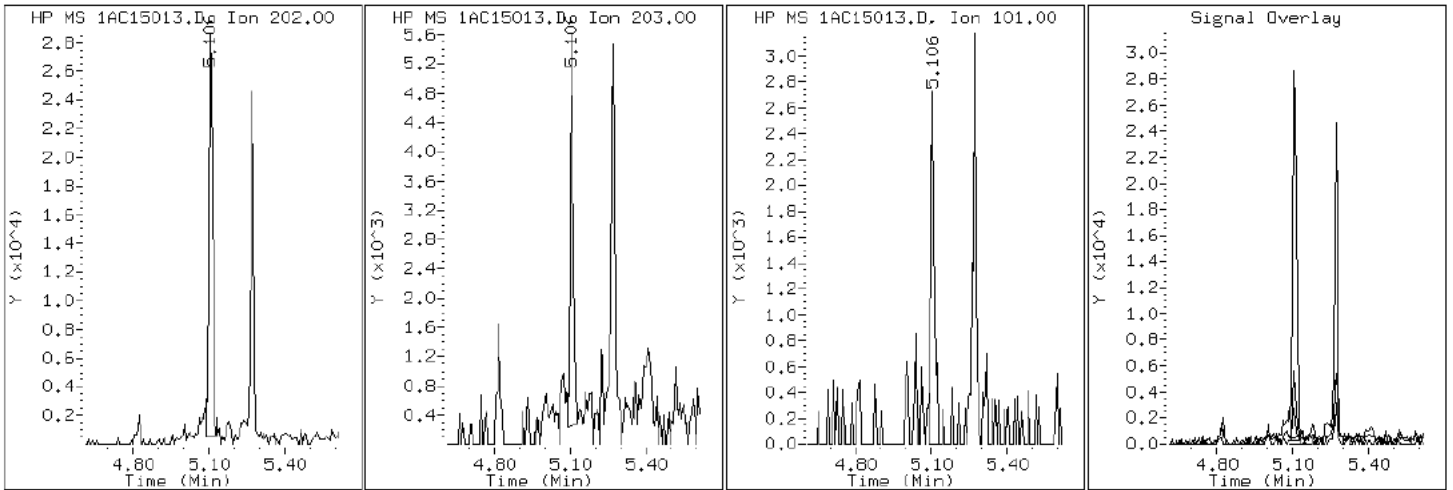
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

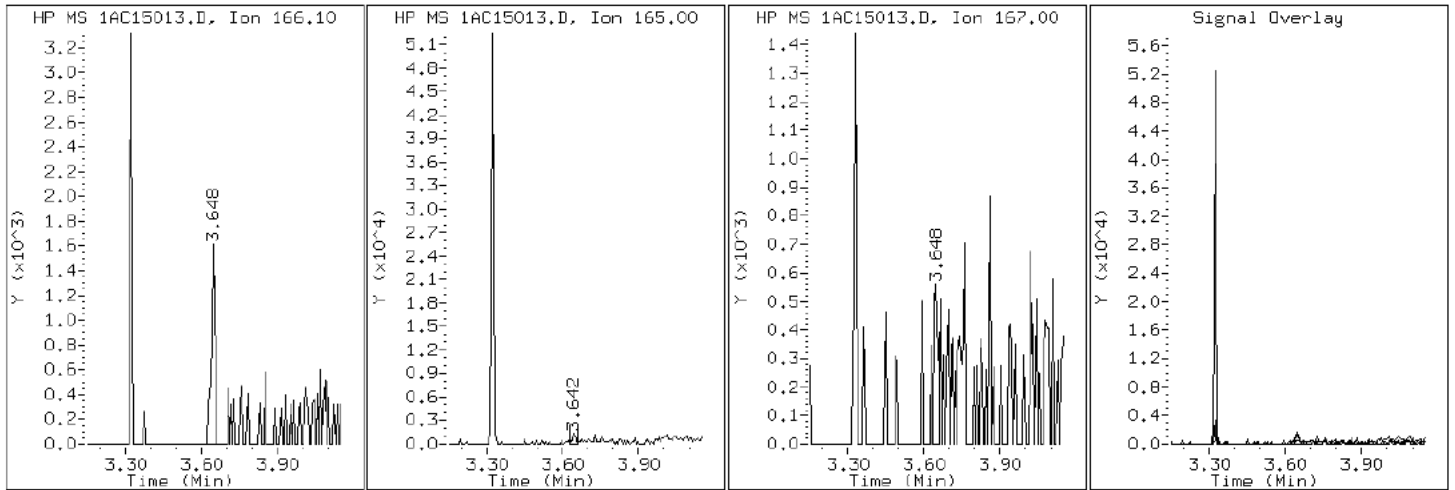
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

9 Fluorene



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

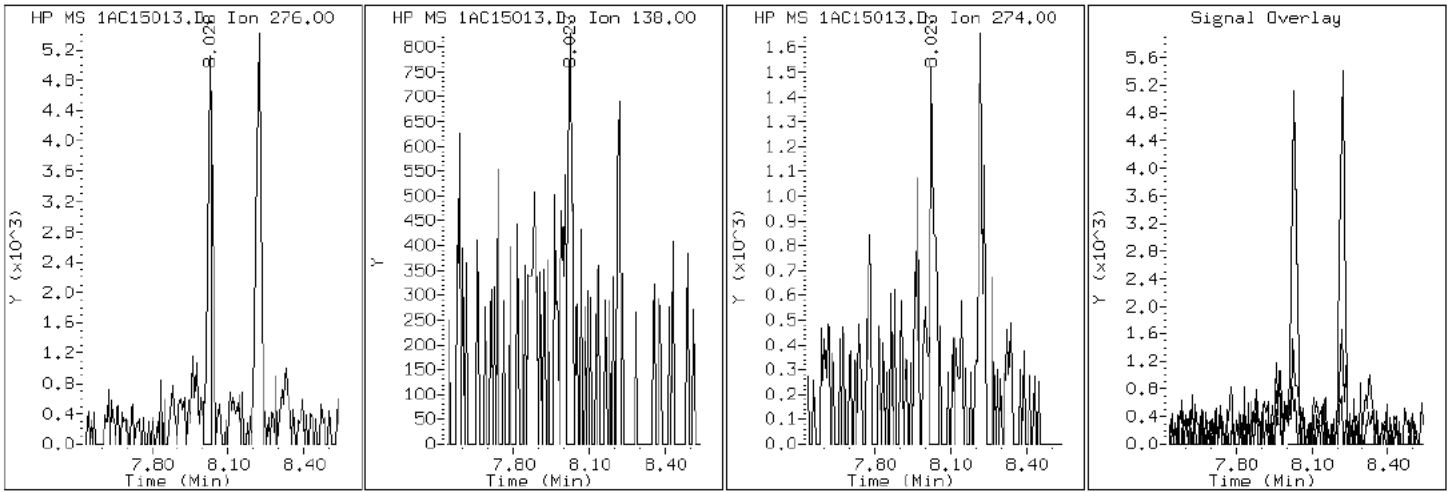
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

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



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

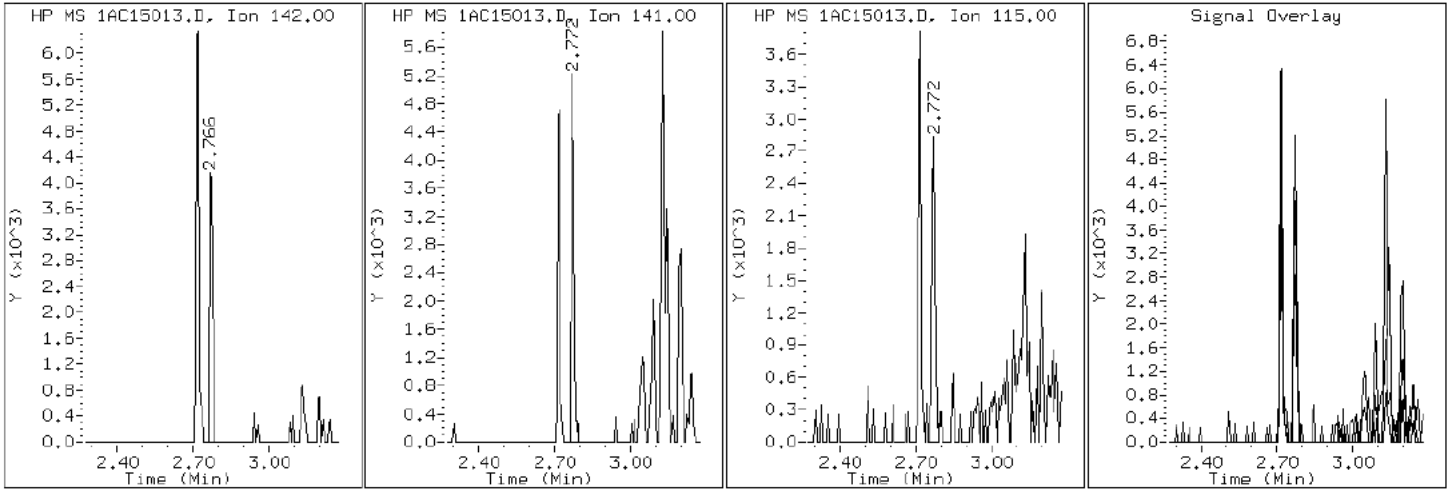
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

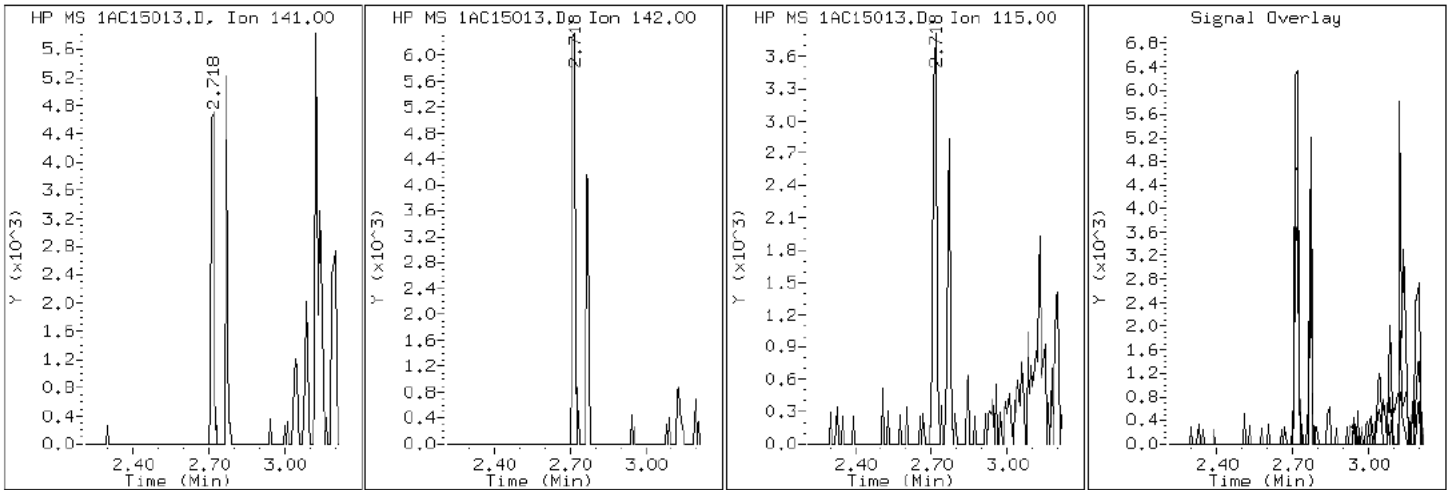
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

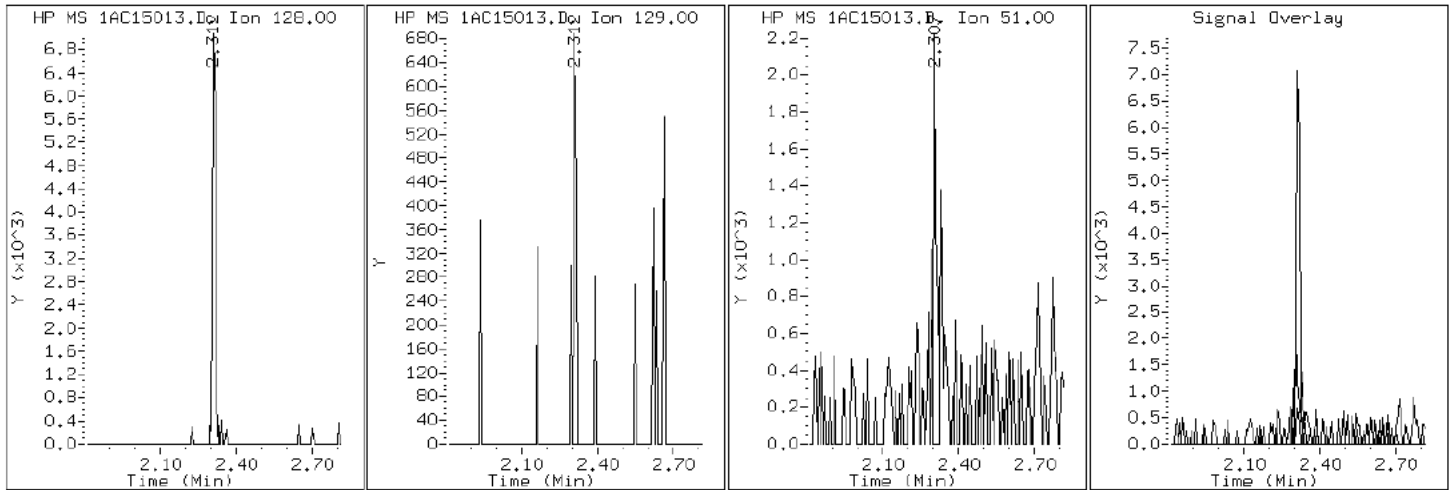
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

2 Naphthalene



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

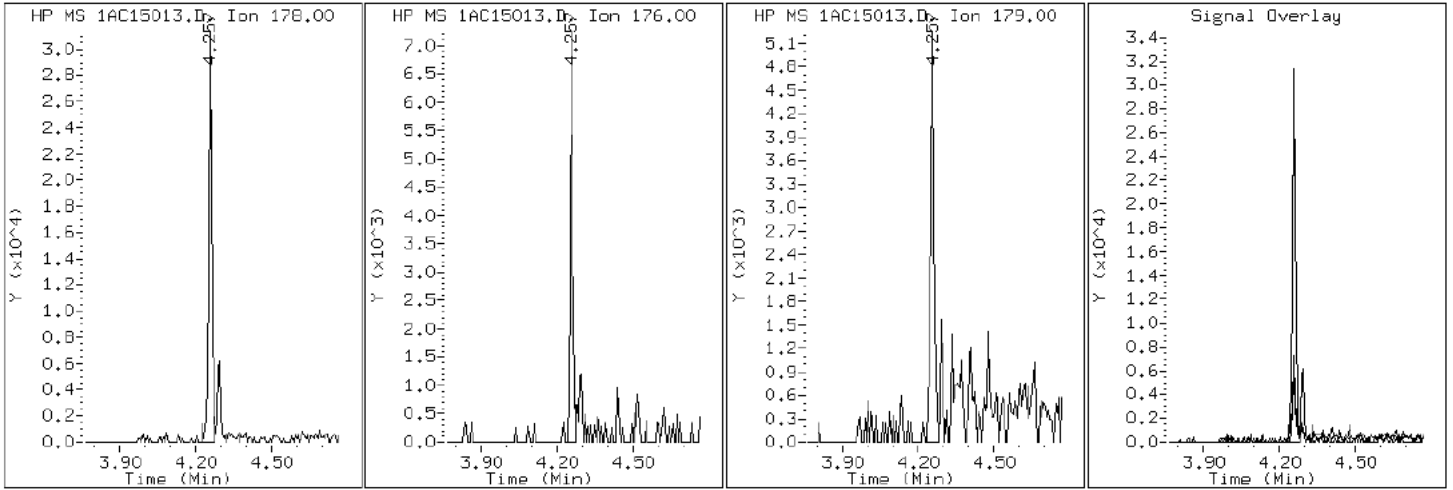
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15013.D

Date: 15-MAR-2013 15:47

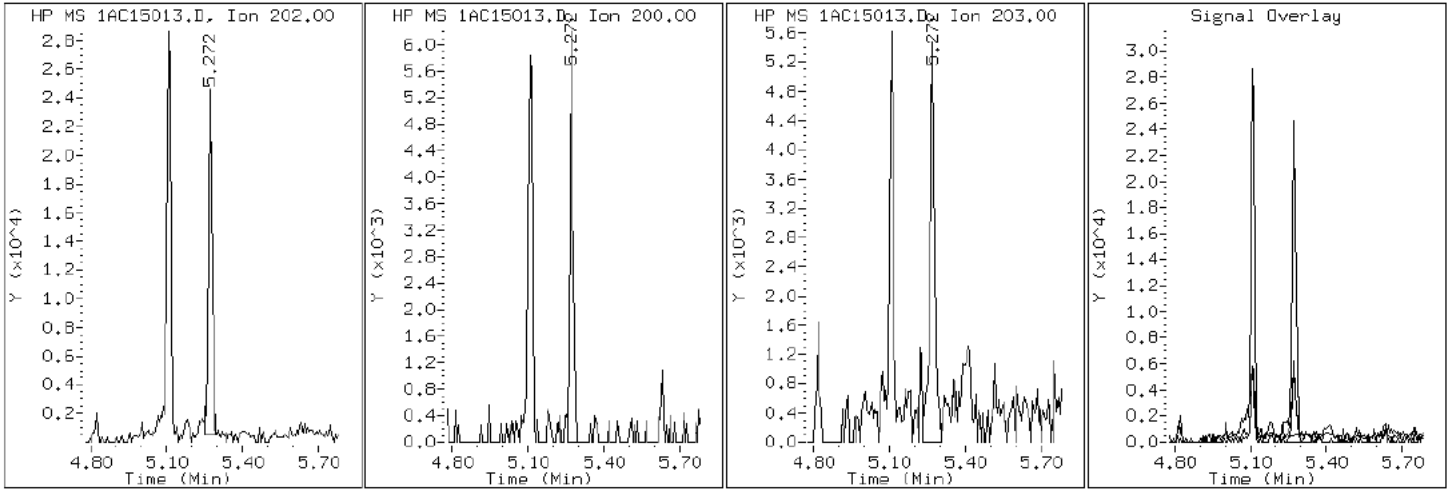
Client ID: CV0144A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-1-a

Operator: SCC

16 Pyrene

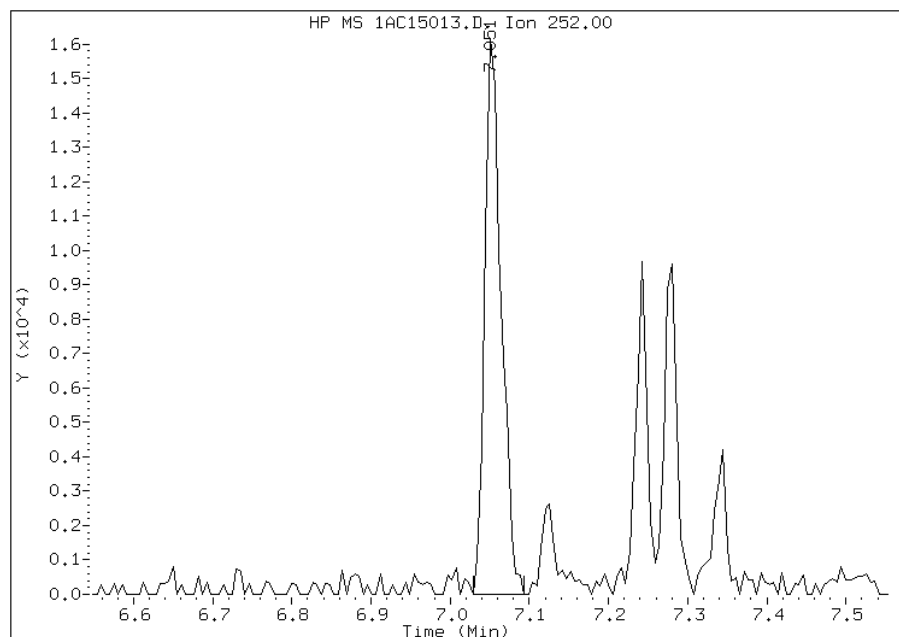


Manual Integration Report

Data File: 1AC15013.D
Inj. Date and Time: 15-MAR-2013 15:47
Instrument ID: BSMA5973.i
Client ID: CV0144A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

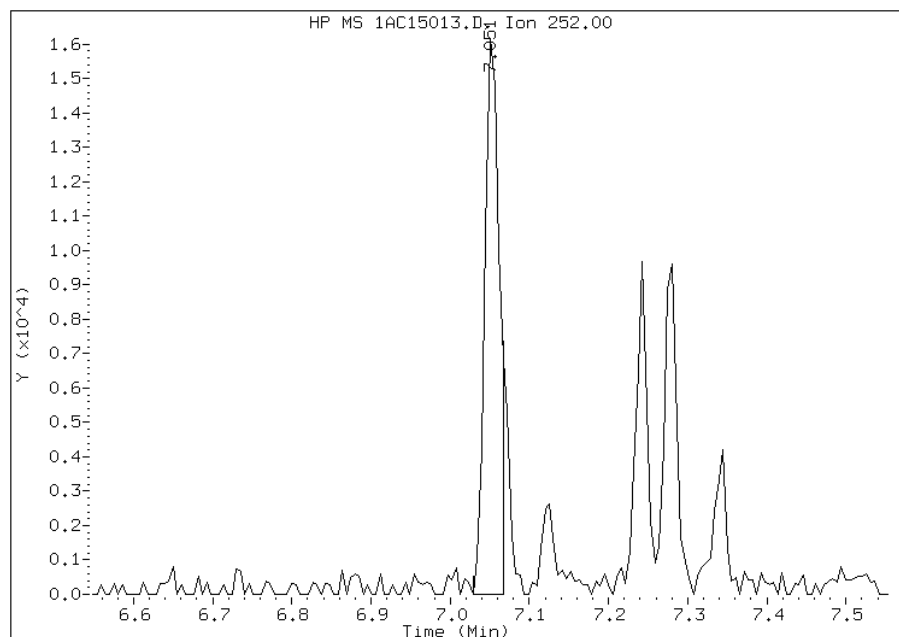
Processing Integration Results

RT: 7.05
Response: 23008
Amount: 3
Conc: 1151



Manual Integration Results

RT: 7.05
Response: 20370
Amount: 3
Conc: 1066



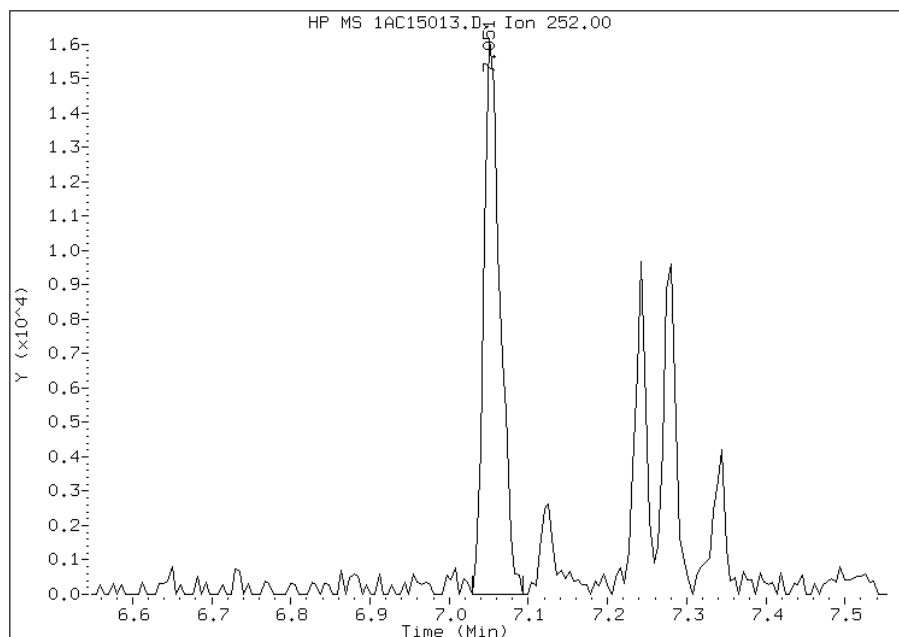
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:36
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15013.D
Inj. Date and Time: 15-MAR-2013 15:47
Instrument ID: BSMA5973.i
Client ID: CV0144A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

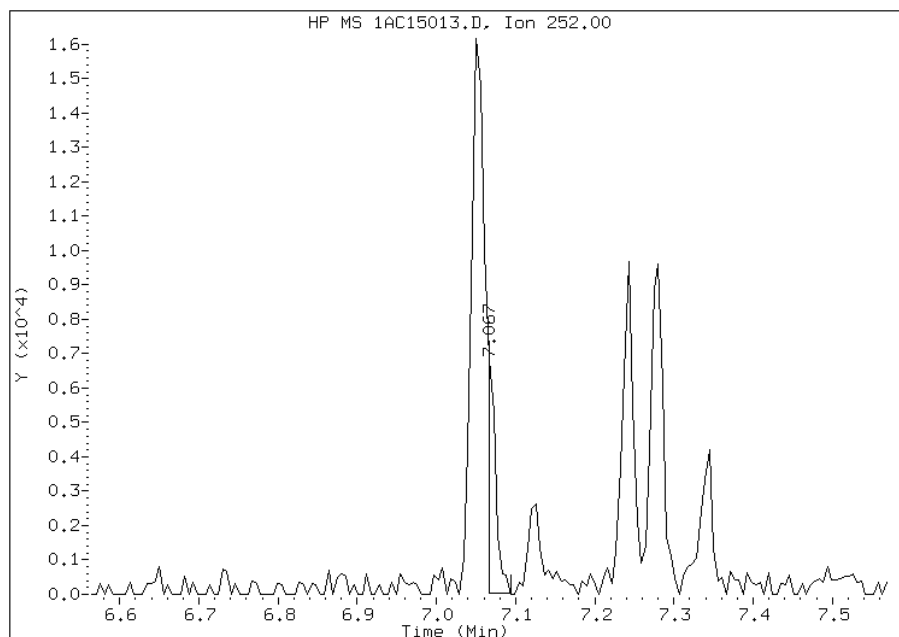
Processing Integration Results

RT: 7.05
Response: 23008
Amount: 2
Conc: 759



Manual Integration Results

RT: 7.07
Response: 4774
Amount: 0
Conc: 157



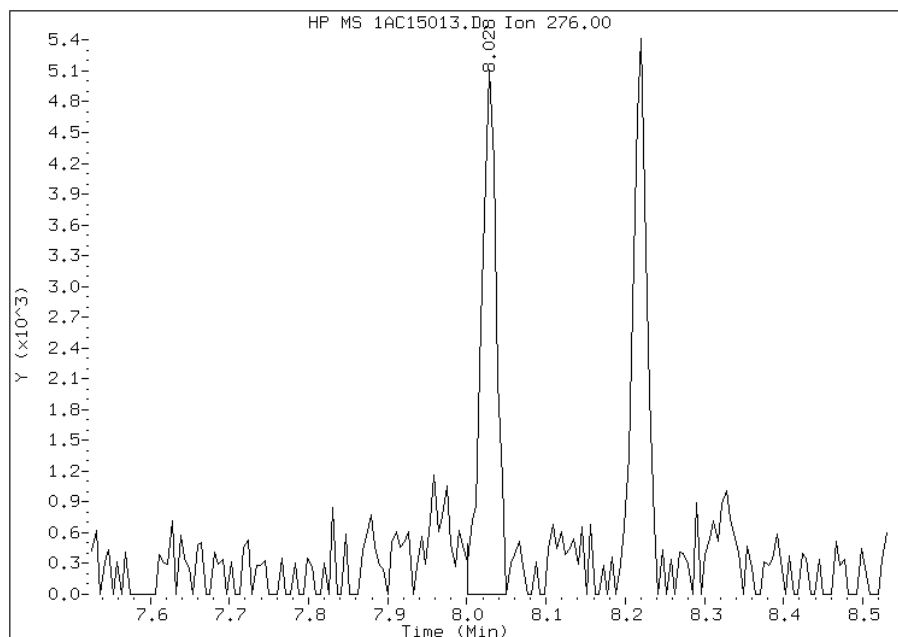
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15013.D
Inj. Date and Time: 15-MAR-2013 15:47
Instrument ID: BSMA5973.i
Client ID: CV0144A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

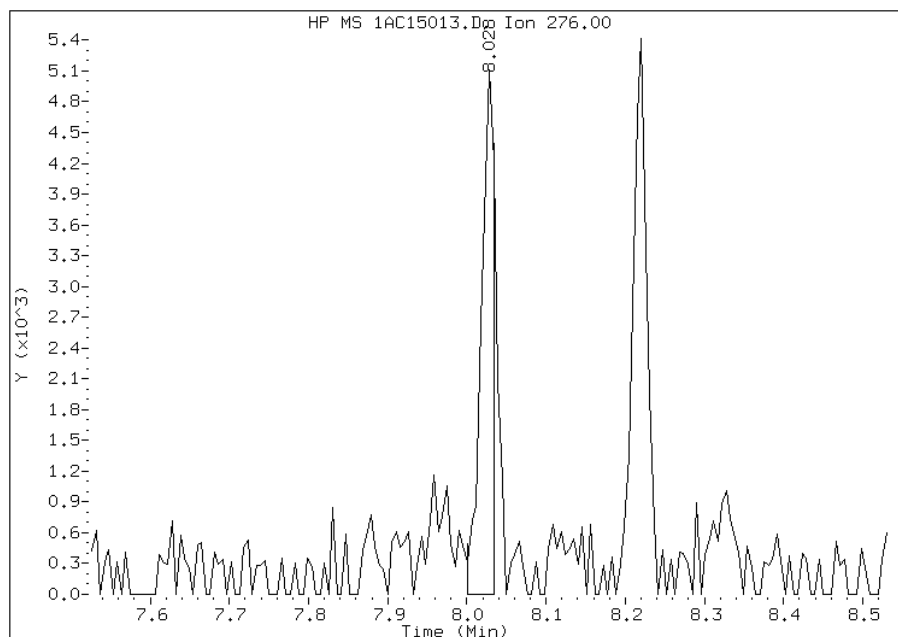
Processing Integration Results

RT: 8.03
Response: 6649
Amount: 1
Conc: 279



Manual Integration Results

RT: 8.03
Response: 5624
Amount: 1
Conc: 236



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0144B-CS-SP Lab Sample ID: 680-88118-2
 Matrix: Solid Lab File ID: 1AC15014.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 09:52
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.03(g) Date Analyzed: 03/15/2013 16:02
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 26.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1200		540	110
208-96-8	Acenaphthylene	300		220	27
120-12-7	Anthracene	940		45	23
56-55-3	Benzo[a]anthracene	3700		43	21
50-32-8	Benzo[a]pyrene	3100		56	28
205-99-2	Benzo[b]fluoranthene	5000		66	33
191-24-2	Benzo[g,h,i]perylene	2000		110	24
207-08-9	Benzo[k]fluoranthene	1800		43	19
218-01-9	Chrysene	4600		49	24
53-70-3	Dibenz(a,h)anthracene	800		110	22
206-44-0	Fluoranthene	9800		110	22
86-73-7	Fluorene	1200		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	1900		110	38
90-12-0	1-Methylnaphthalene	2700		220	24
91-57-6	2-Methylnaphthalene	3000		220	38
91-20-3	Naphthalene	3400		220	24
85-01-8	Phenanthrene	14000		43	21
129-00-0	Pyrene	8900		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15014.D
 Lab Smp Id: 680-88118-A-2-A Client Smp ID: CV0144B-CS-SP
 Inj Date : 15-MAR-2013 16:02
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-2-a
 Misc Info : 680-88118-A-2-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 14
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	26.271	% 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		2.302	2.303	(1.000)	366059	40.0000		
* 6 Acenaphthene-d10	164		3.323	3.324	(1.000)	272326	40.0000		
* 10 Phenanthrene-d10	188		4.252	4.248	(1.000)	436381	40.0000		
\$ 14 o-Terphenyl	230		4.525	4.526	(1.064)	12130	2.21985	801.2840	
* 18 Chrysene-d12	240		6.250	6.246	(1.000)	385150	40.0000		
* 23 Perylene-d12	264		7.340	7.330	(1.000)	387337	40.0000		
2 Naphthalene	128		2.313	2.314	(1.005)	80654	9.53673	3442.4156	
3 2-Methylnaphthalene	141		2.714	2.715	(1.179)	38132	8.23050	2970.9138	
4 1-Methylnaphthalene	142		2.773	2.773	(1.204)	35912	7.38465	2665.5915	
5 Acenaphthylene	152		3.237	3.238	(0.974)	6346	0.82155	296.5498	
7 Acenaphthene	154		3.339	3.345	(1.005)	16006	3.23250	1166.8163	
9 Fluorene	166		3.649	3.649	(1.098)	21629	3.41412	1232.3724	
11 Phenanthrene	178		4.268	4.264	(1.004)	416859	37.6908	13605.0324	
12 Anthracene	178		4.295	4.296	(1.010)	28020	2.61282	943.1323	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.455	4.456 (1.048)		21759	2.31493	835.6075
15 Fluoranthene	202	5.118	5.113 (1.203)		297662	27.2268	9827.8843
16 Pyrene	202	5.283	5.279 (0.845)		273736	24.7879	8947.5294
17 Benzo(a)anthracene	228	6.240	6.235 (0.998)		111910	10.1883	3677.6038
19 Chrysene	228	6.266	6.262 (1.003)		126659	12.6970	4583.1481
20 Benzo(b)fluoranthene	252	7.062	7.052 (0.962)		135510	13.8991	5017.0862(M)
21 Benzo(k)fluoranthene	252	7.073	7.074 (0.964)		52532	5.02791	1814.8939(QM)
22 Benzo(a)pyrene	252	7.287	7.282 (0.993)		79102	8.70208	3141.1381
24 Indeno(1,2,3-cd)pyrene	276	8.040	8.035 (1.095)		43600	5.31581	1918.8159(M)
25 Dibenzo(a,h)anthracene	278	8.045	8.045 (1.096)		17924	2.20497	795.9151
26 Benzo(g,h,i)perylene	276	8.227	8.222 (1.121)		45944	5.56486	2008.7135

QC Flag Legend

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

Data File: 1AC15014.D

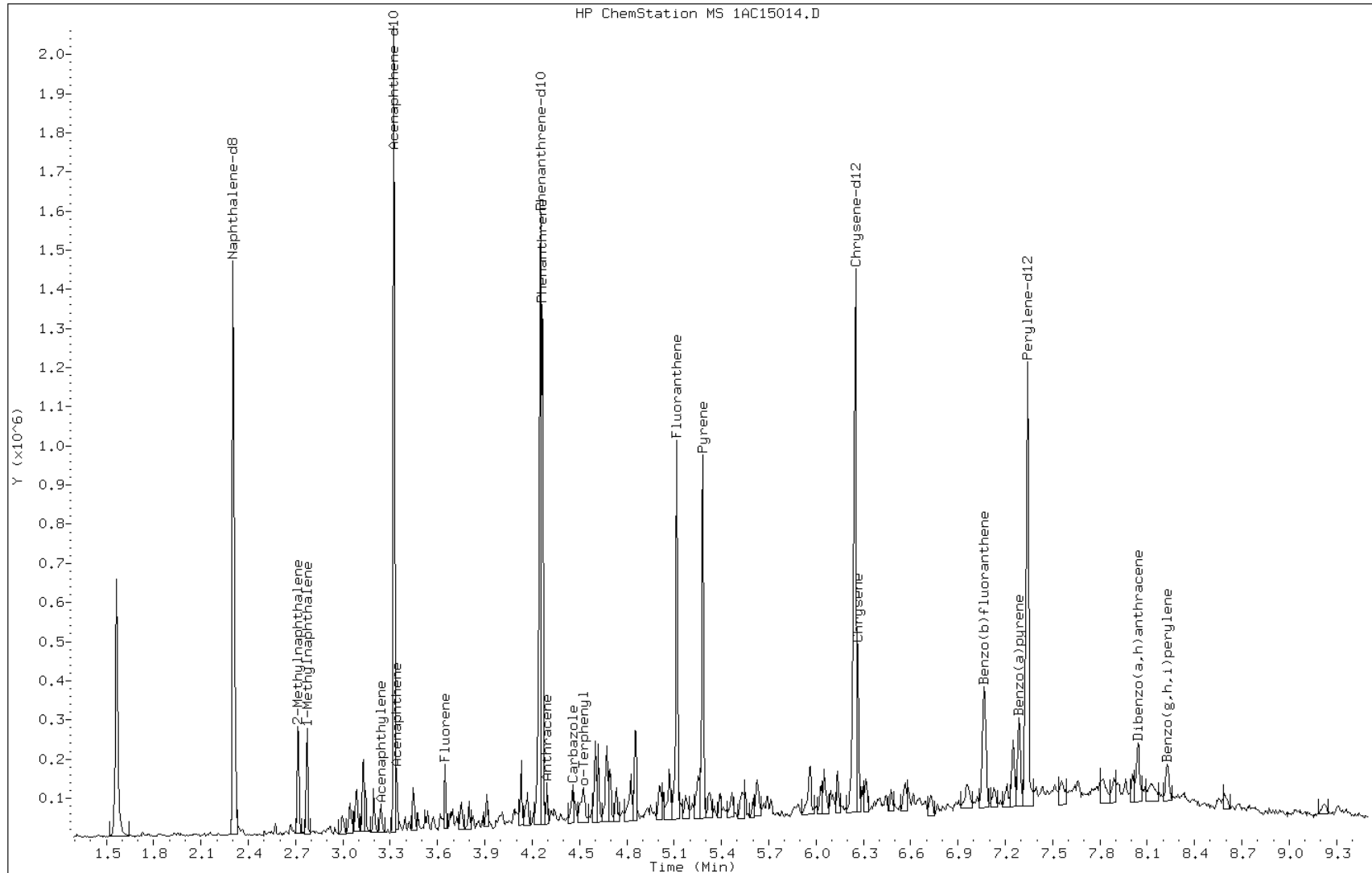
Date: 15-MAR-2013 16:02

Client ID: CV0144B-CS-SP

Sample Info: 680-88118-a-2-a

Instrument: BSMA5973.i

Operator: SCC



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

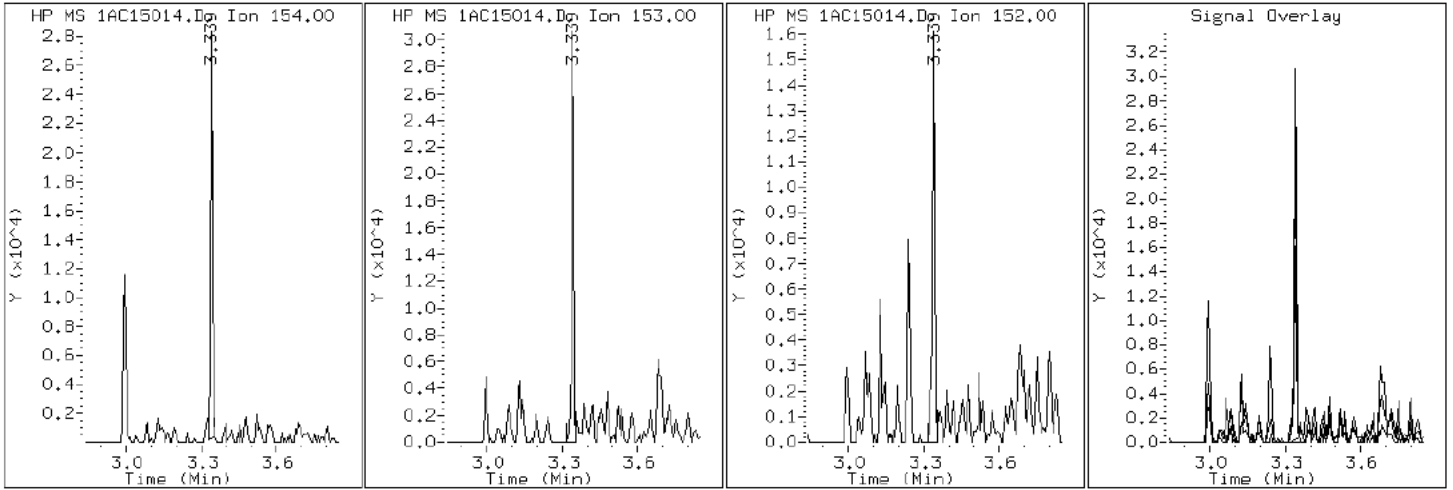
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

7 Acenaphthene



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

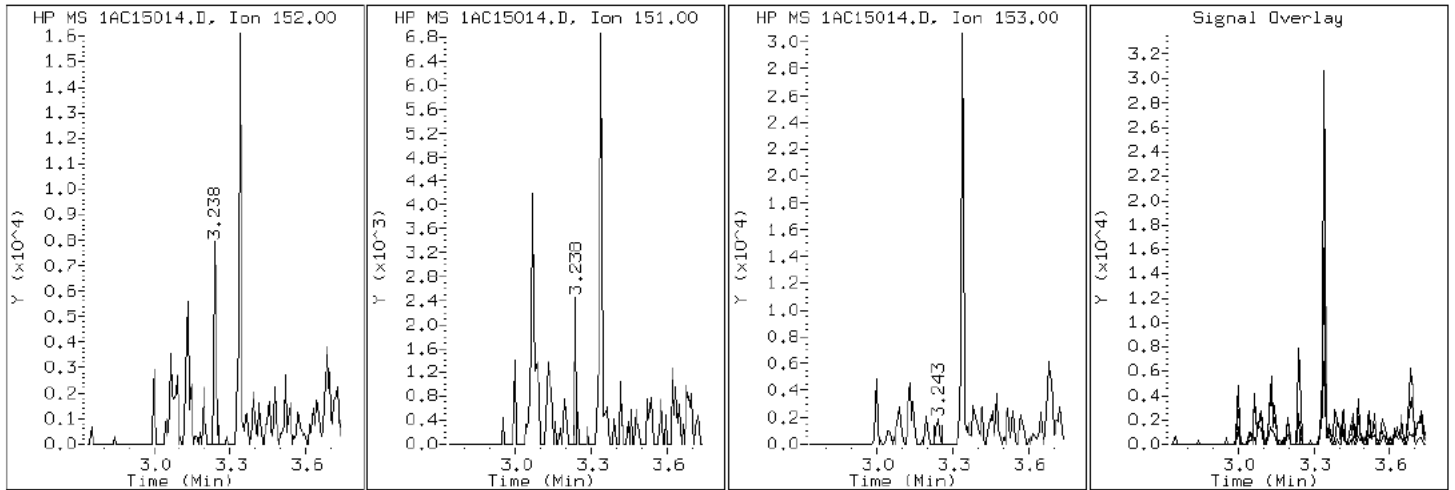
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

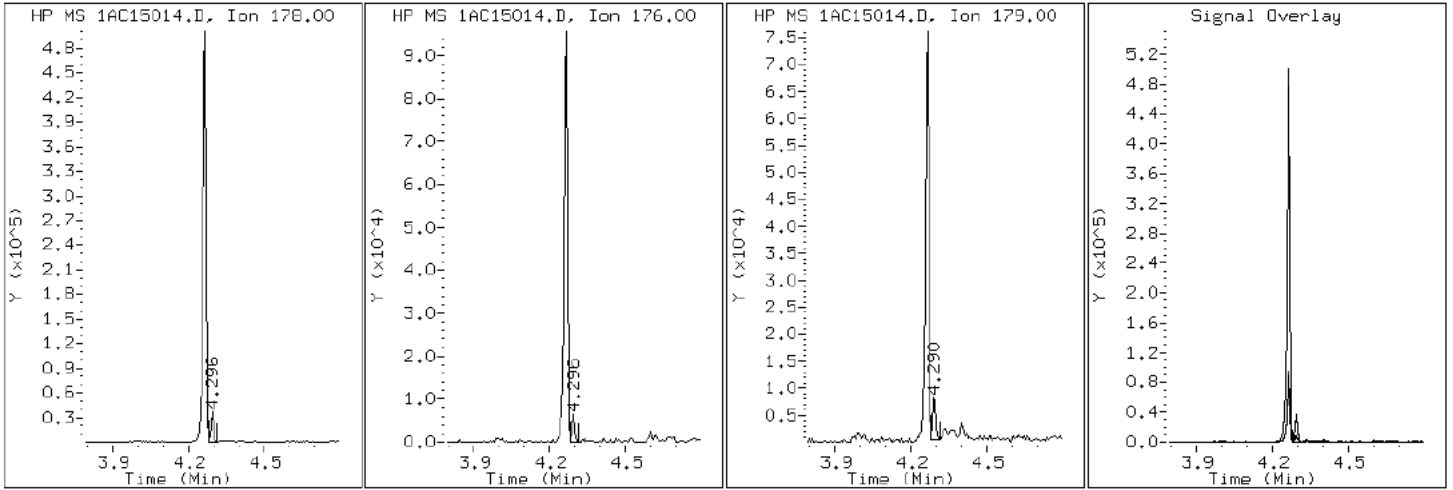
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

12 Anthracene



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

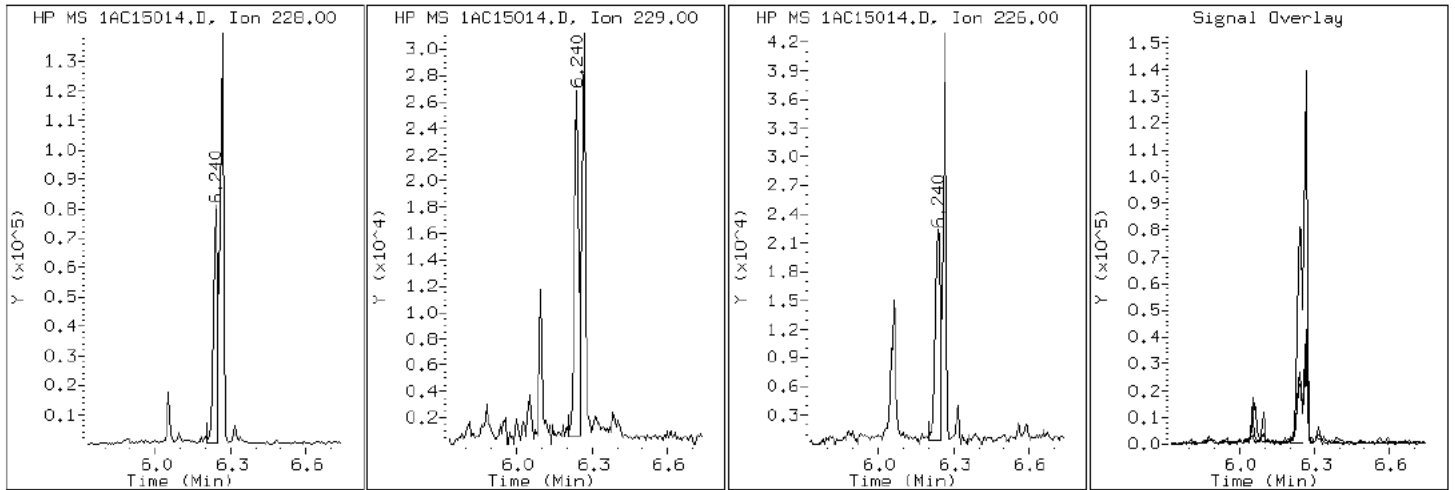
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

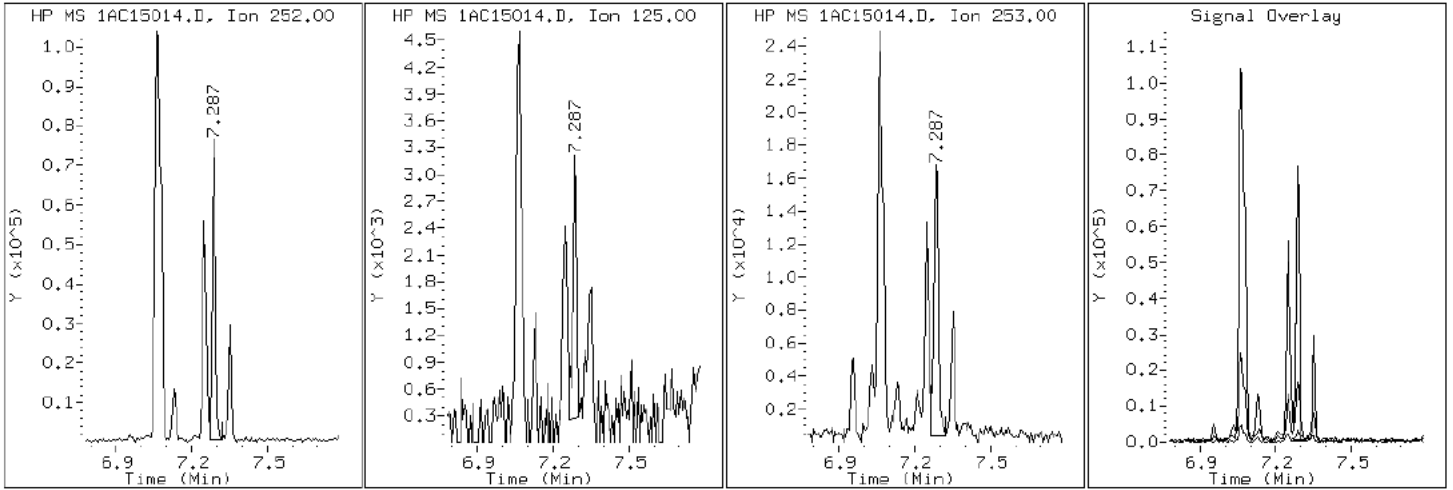
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

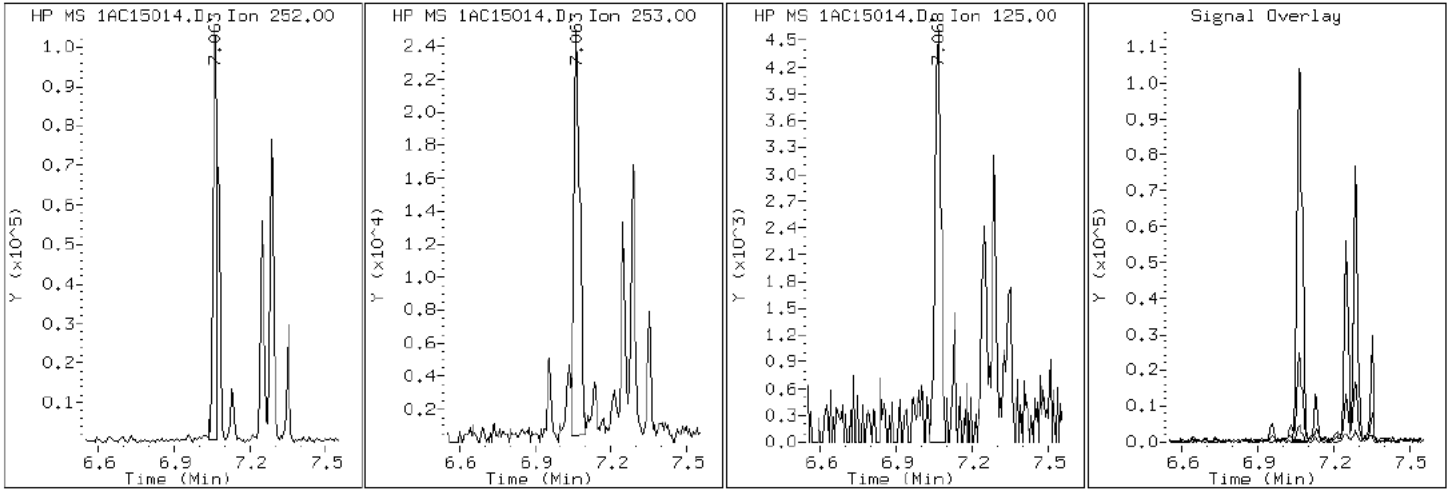
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

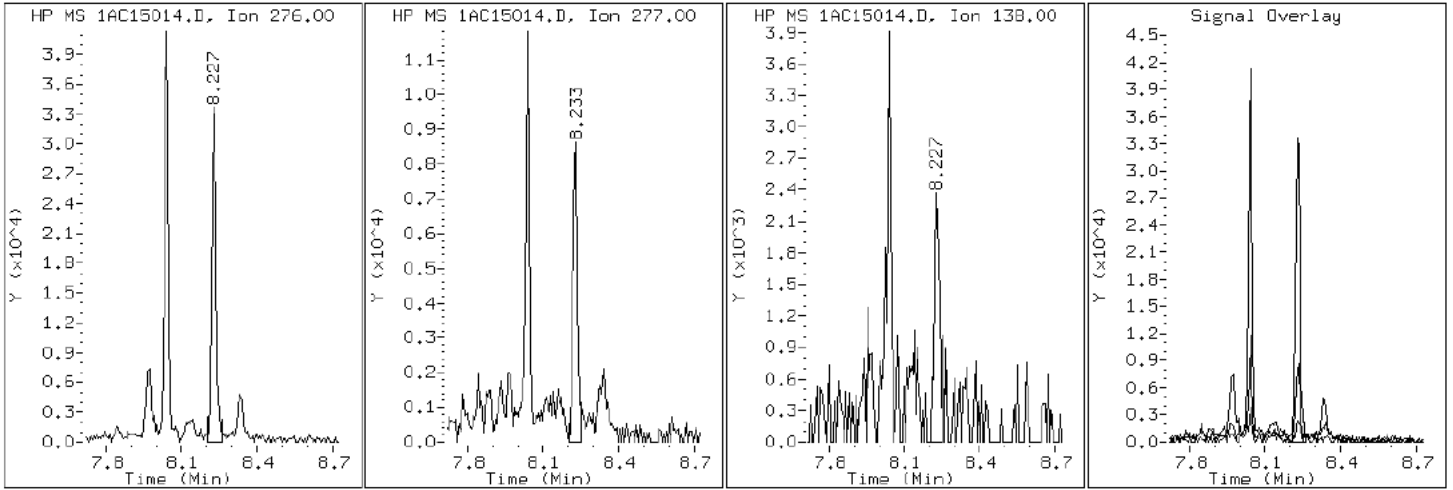
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

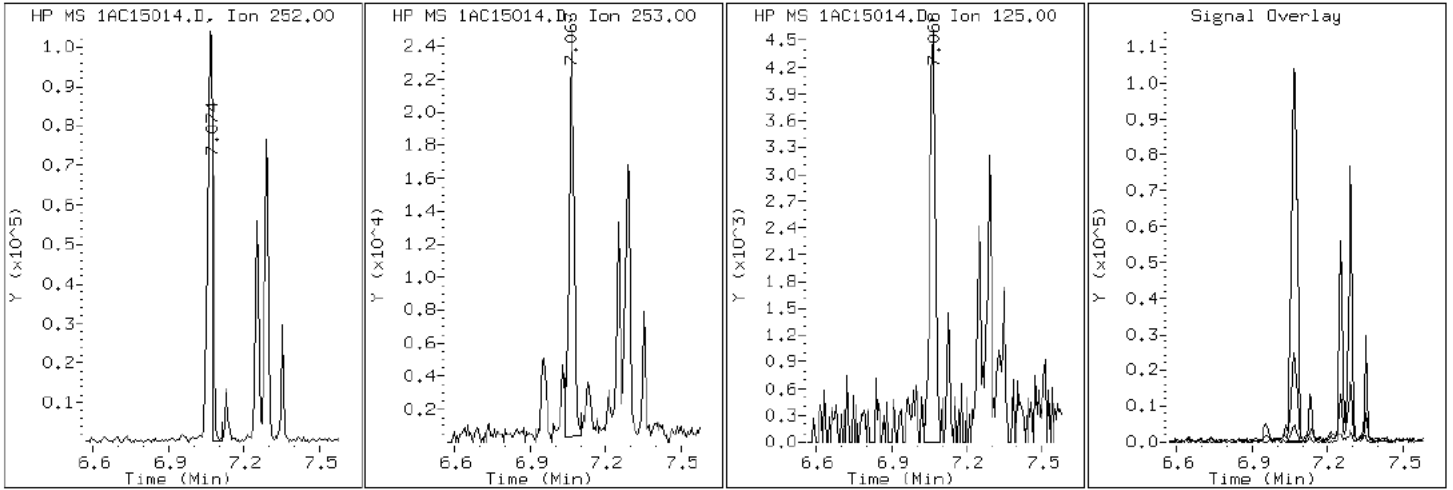
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

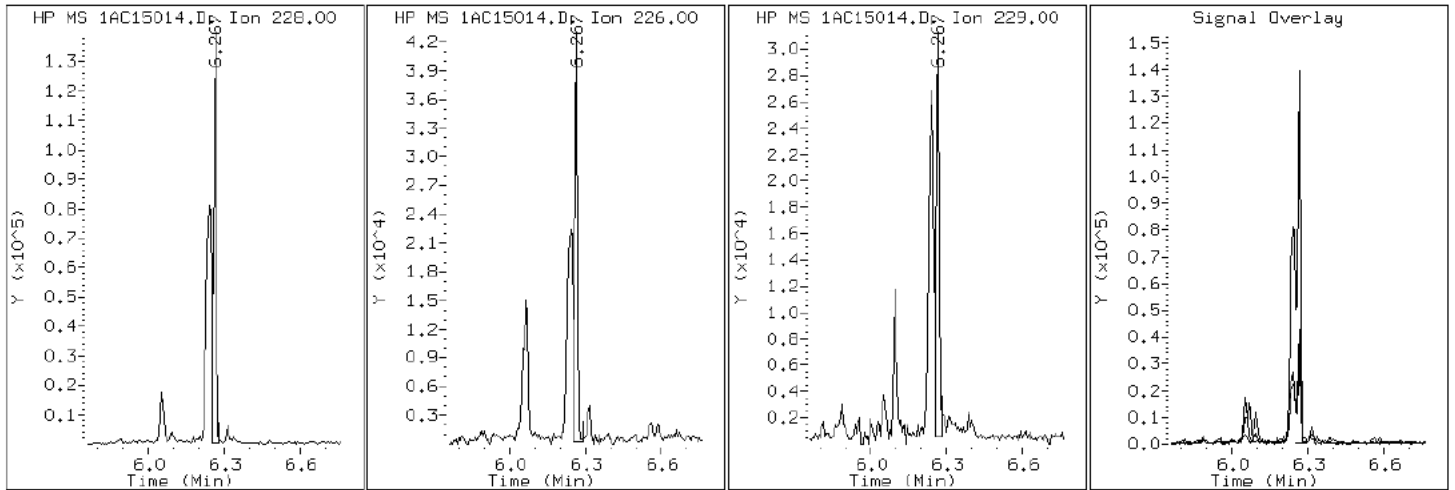
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

19 Chrysene



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

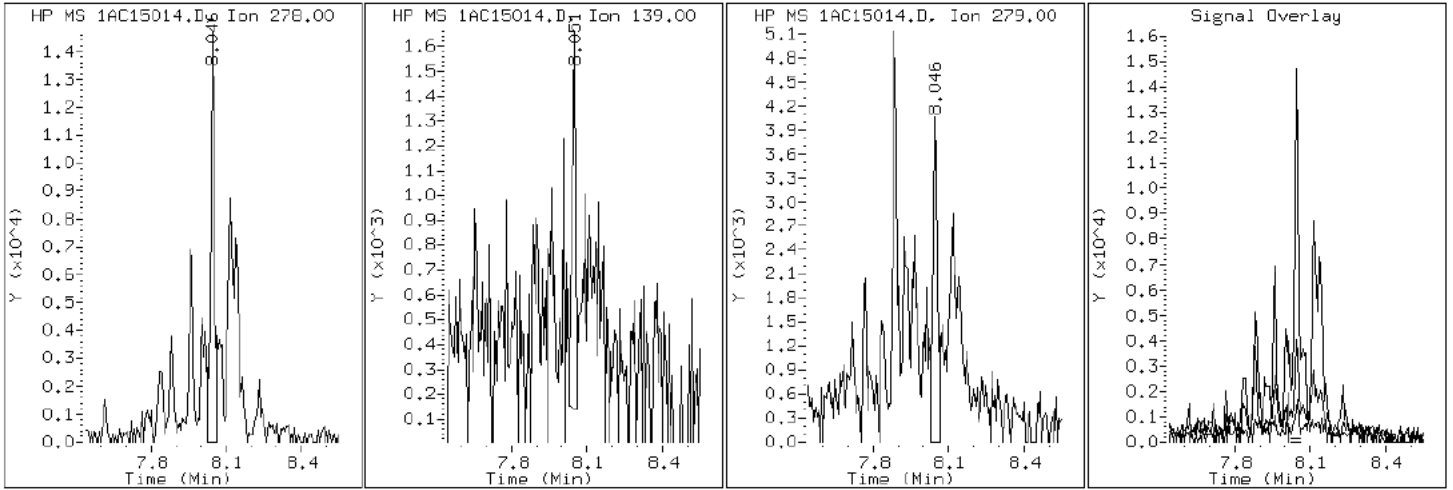
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

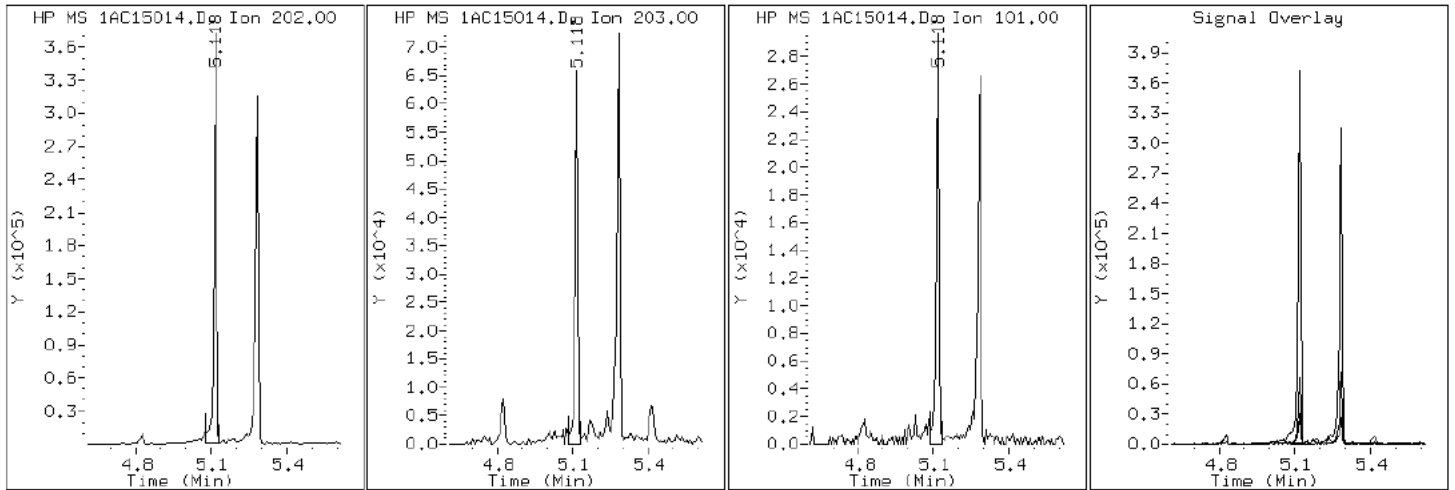
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

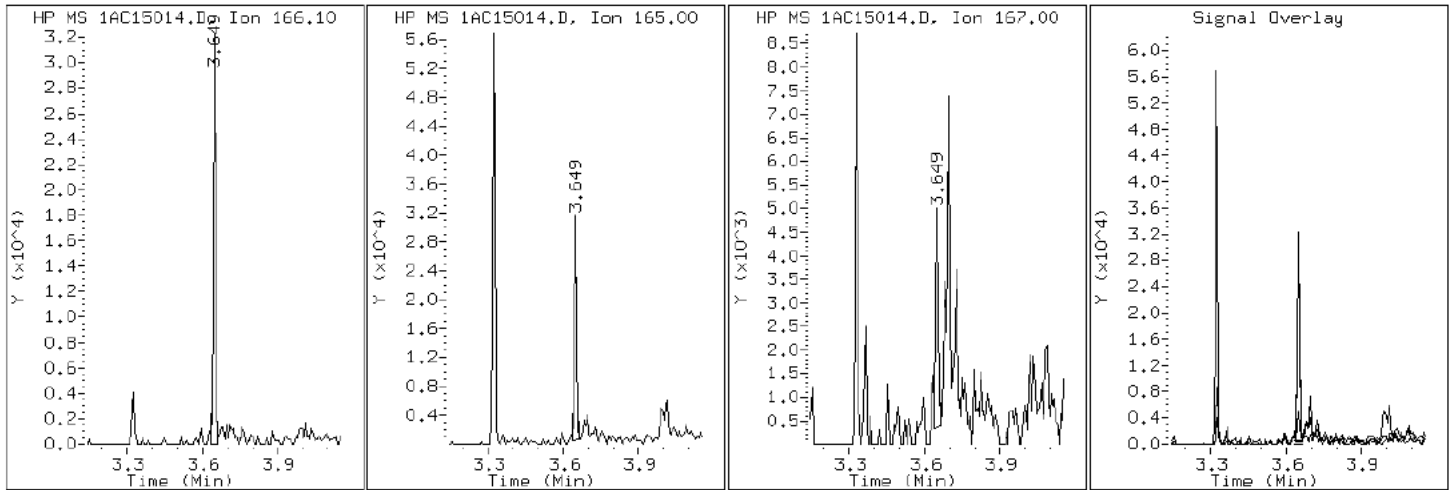
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

9 Fluorene



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

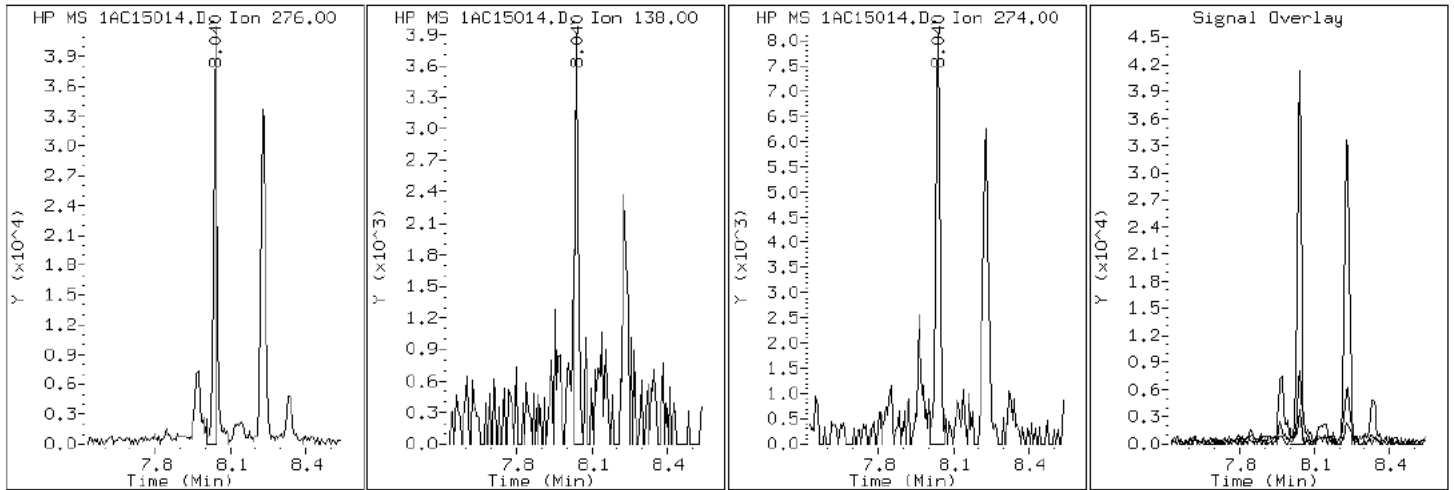
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

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



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

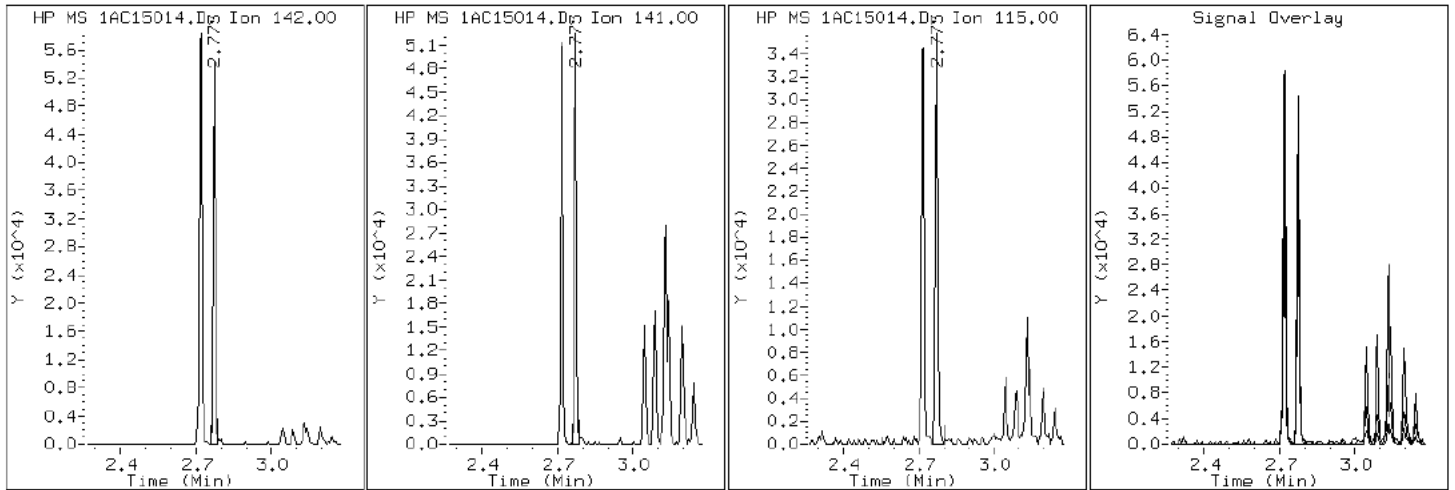
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

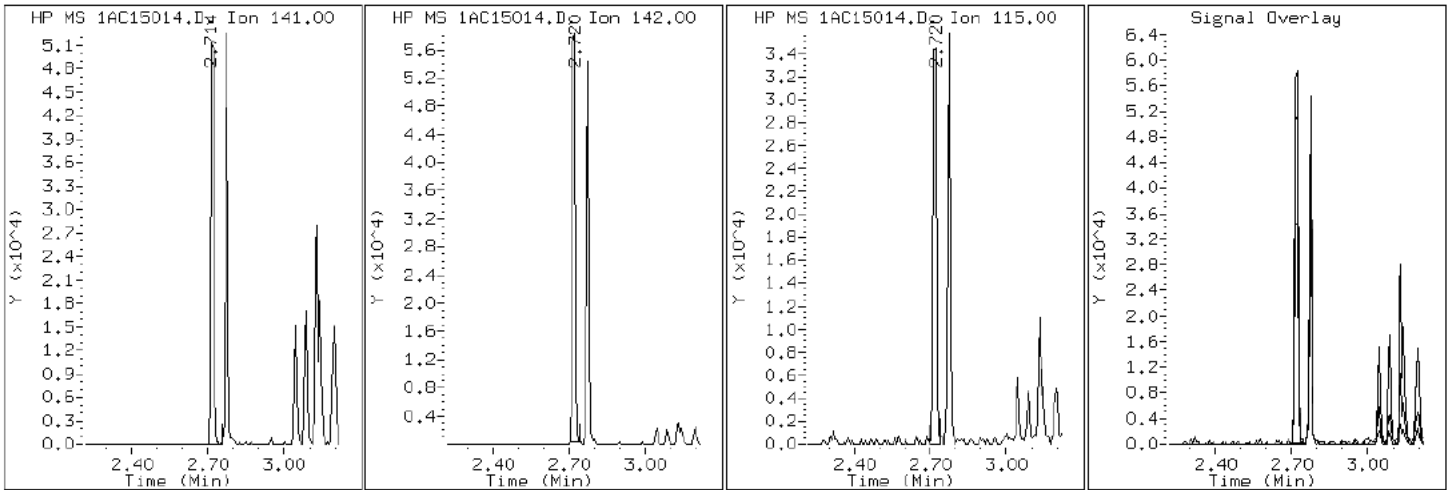
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

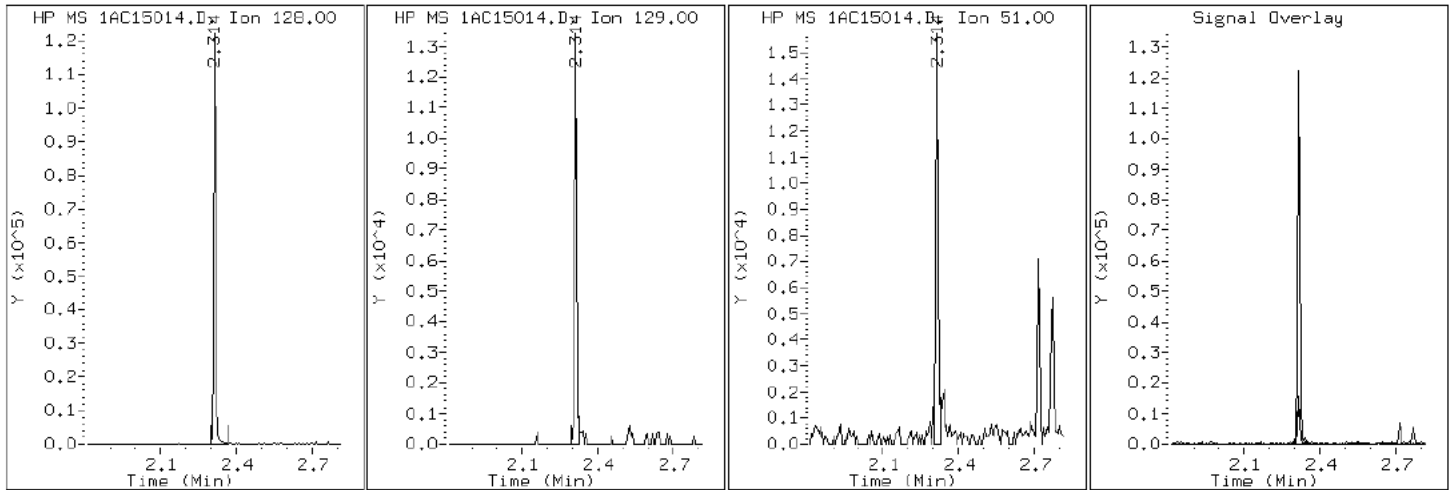
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

2 Naphthalene



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

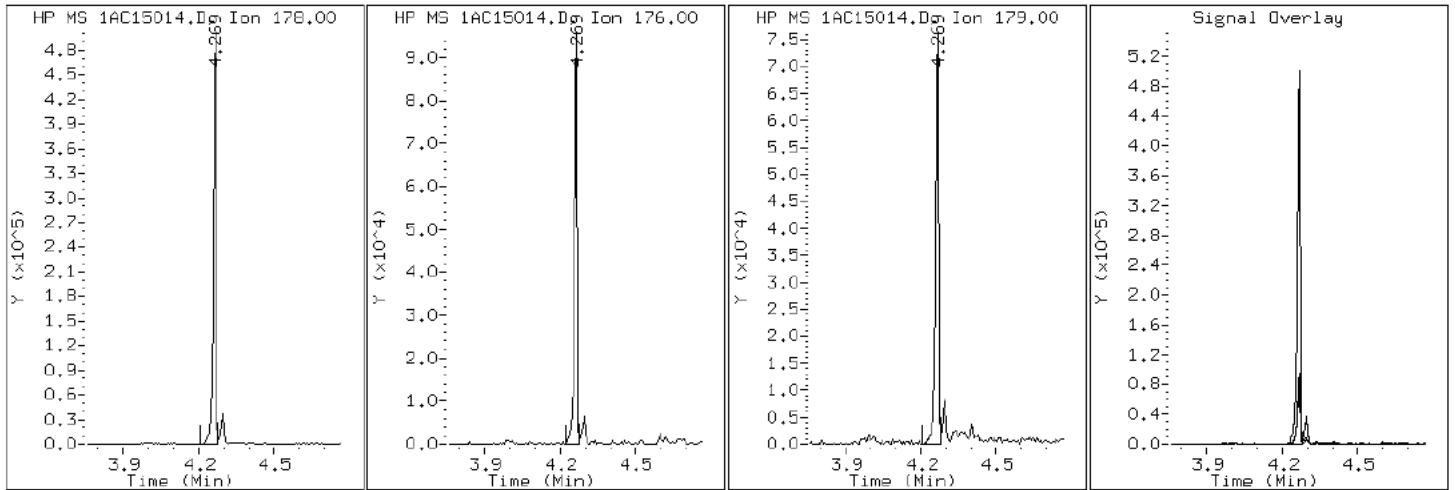
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15014.D

Date: 15-MAR-2013 16:02

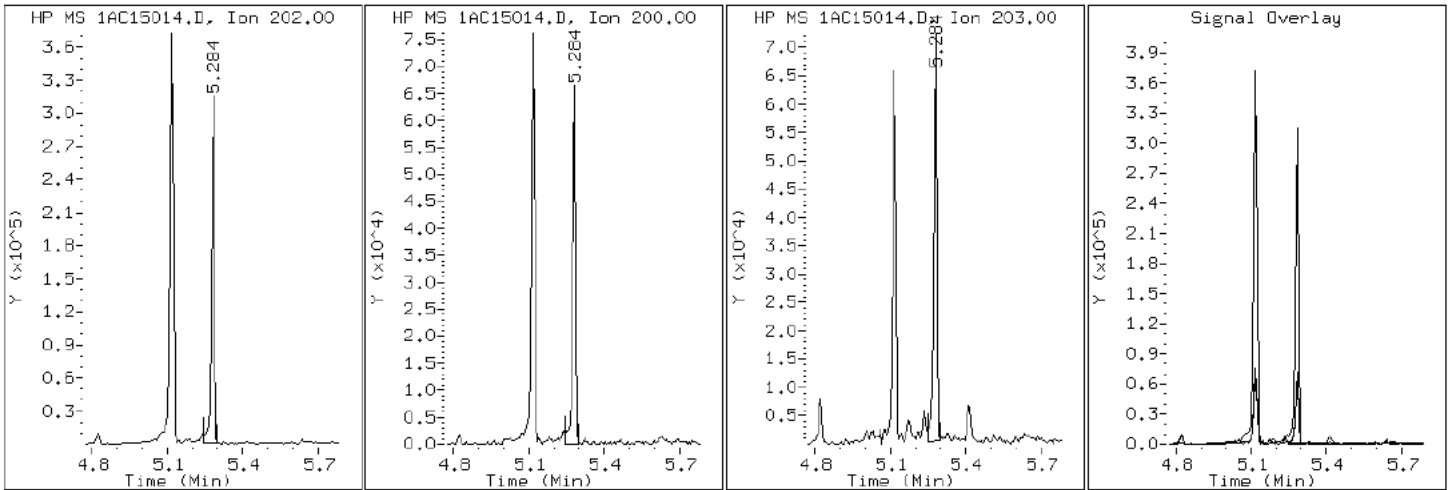
Client ID: CV0144B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-2-a

Operator: SCC

16 Pyrene

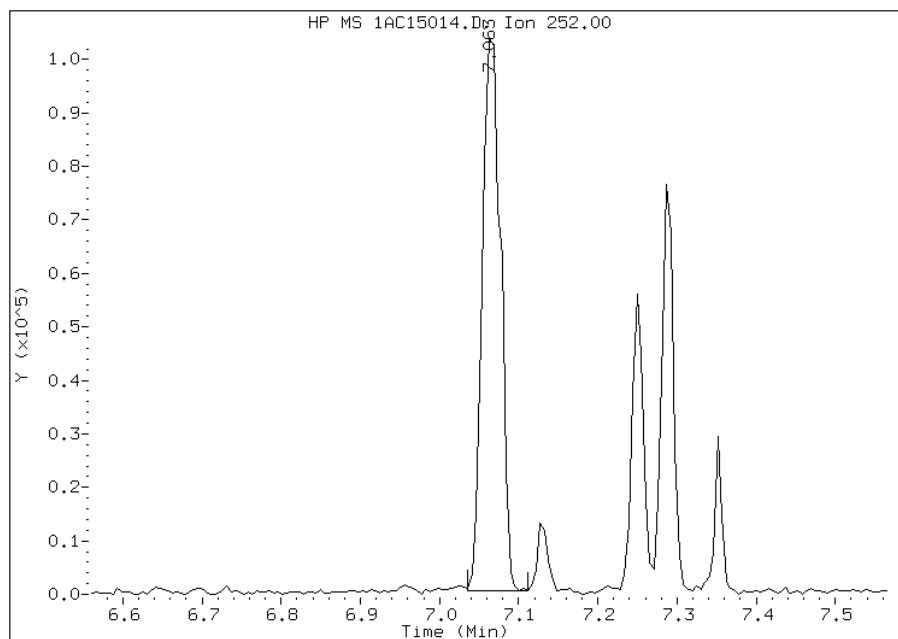


Manual Integration Report

Data File: 1AC15014.D
Inj. Date and Time: 15-MAR-2013 16:02
Instrument ID: BSMA5973.i
Client ID: CV0144B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

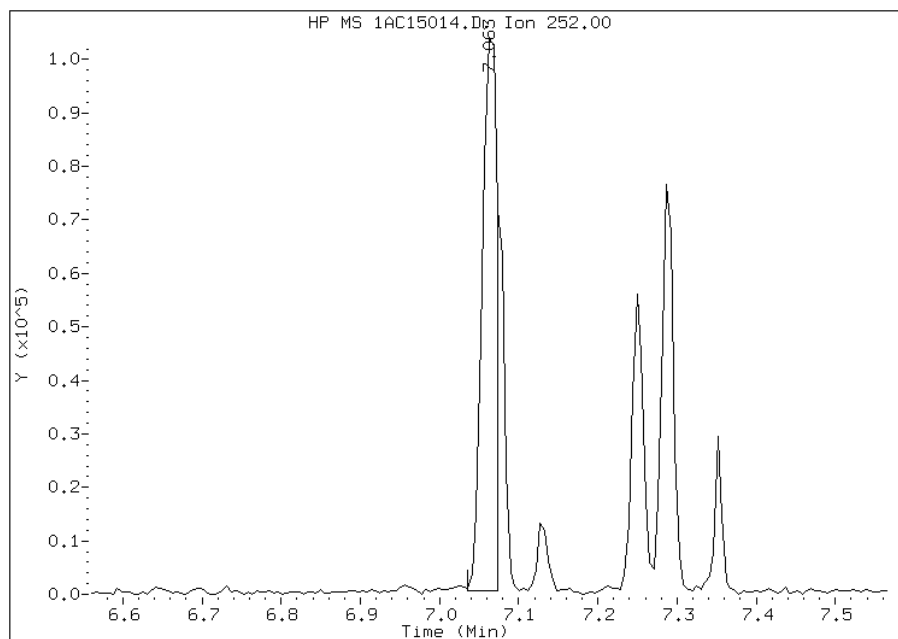
Processing Integration Results

RT: 7.06
Response: 164446
Amount: 17
Conc: 5996



Manual Integration Results

RT: 7.06
Response: 135510
Amount: 14
Conc: 5017



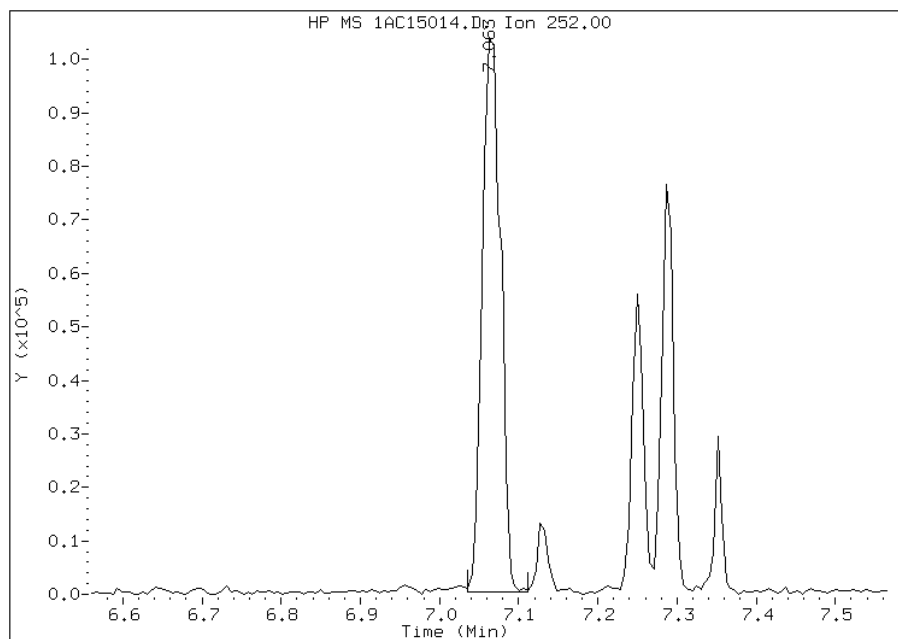
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15014.D
Inj. Date and Time: 15-MAR-2013 16:02
Instrument ID: BSMA5973.i
Client ID: CV0144B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

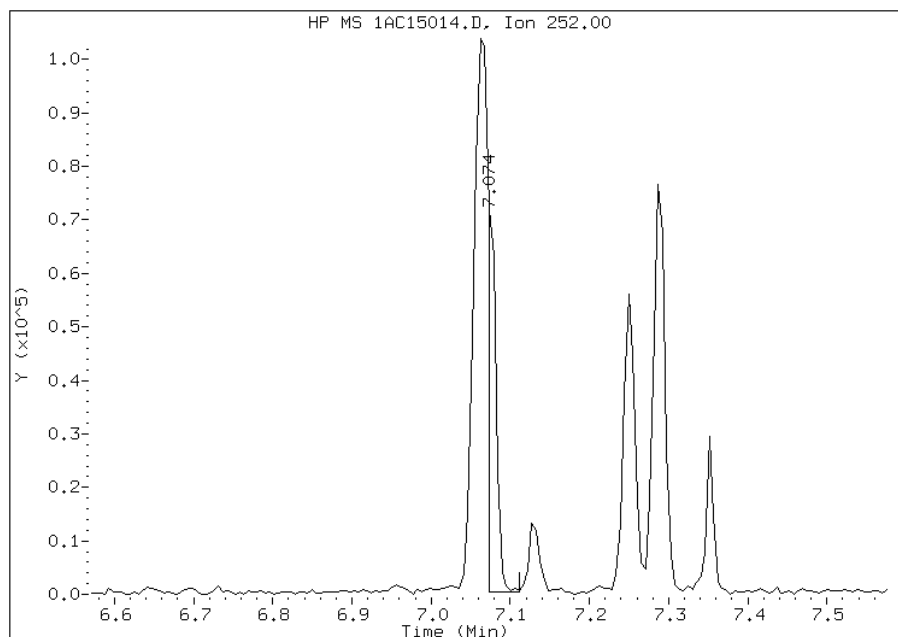
Processing Integration Results

RT: 7.06
Response: 165408
Amount: 16
Conc: 5715



Manual Integration Results

RT: 7.07
Response: 52532
Amount: 5
Conc: 1815



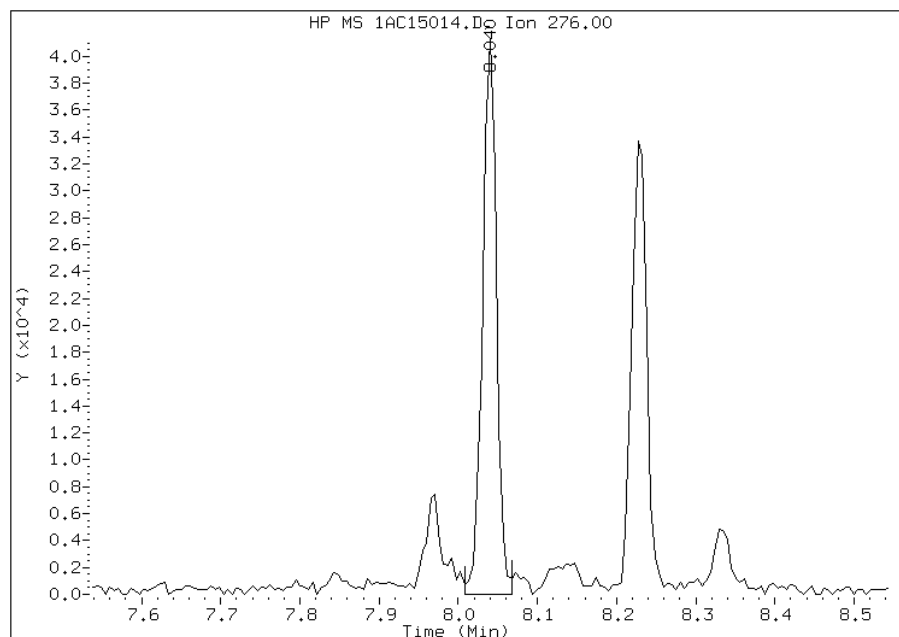
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15014.D
Inj. Date and Time: 15-MAR-2013 16:02
Instrument ID: BSMA5973.i
Client ID: CV0144B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

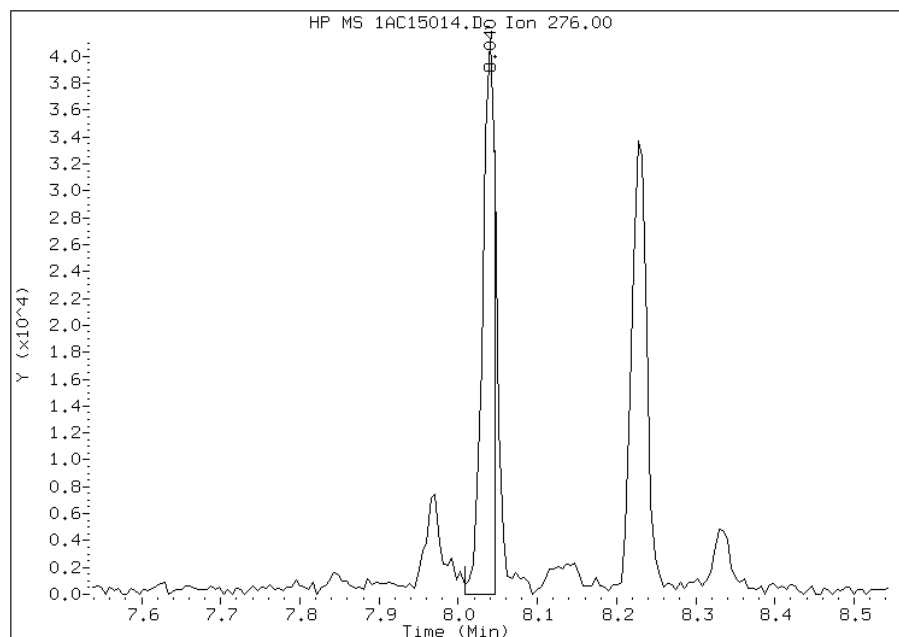
Processing Integration Results

RT: 8.04
Response: 49768
Amount: 6
Conc: 2190



Manual Integration Results

RT: 8.04
Response: 43600
Amount: 5
Conc: 1919



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0193A-CS-SP Lab Sample ID: 680-88118-3
 Matrix: Solid Lab File ID: 1AC15015.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 13:38
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.25(g) Date Analyzed: 03/15/2013 16:17
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 20.6 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	J	500	99
208-96-8	Acenaphthylene	170	J	200	25
120-12-7	Anthracene	140		42	21
56-55-3	Benzo[a]anthracene	560		40	19
50-32-8	Benzo[a]pyrene	370		52	26
205-99-2	Benzo[b]fluoranthene	930		60	30
191-24-2	Benzo[g,h,i]perylene	220		99	22
207-08-9	Benzo[k]fluoranthene	260		40	18
218-01-9	Chrysene	570		45	22
53-70-3	Dibenz(a,h)anthracene	130		99	20
206-44-0	Fluoranthene	760		99	20
86-73-7	Fluorene	120		99	20
193-39-5	Indeno[1,2,3-cd]pyrene	240		99	35
90-12-0	1-Methylnaphthalene	160	J	200	22
91-57-6	2-Methylnaphthalene	480		200	35
91-20-3	Naphthalene	160	J	200	22
85-01-8	Phenanthrene	510		40	19
129-00-0	Pyrene	640		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15015.D
 Lab Smp Id: 680-88118-A-3-A Client Smp ID: CV0193A-CS-SP
 Inj Date : 15-MAR-2013 16:17
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-3-a
 Misc Info : 680-88118-A-3-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 15
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.250	Weight Extracted
M	20.602	% 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	CONCENTRATIONS				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136	2.305	2.303	(1.000)	367382	40.0000	
* 6 Acenaphthene-d10	164	3.325	3.324	(1.000)	275134	40.0000	
* 10 Phenanthrene-d10	188	4.249	4.248	(1.000)	430858	40.0000	
\$ 14 o-Terphenyl	230	4.522	4.526	(1.064)	12095	2.24087	740.2803
* 18 Chrysene-d12	240	6.247	6.246	(1.000)	346521	40.0000	
* 23 Perylene-d12	264	7.337	7.330	(1.000)	353577	40.0000	
2 Naphthalene	128	2.316	2.314	(1.005)	4097	0.48269	159.4602(Q)
3 2-Methylnaphthalene	141	2.716	2.715	(1.178)	3004	1.45781	481.5932
4 1-Methylnaphthalene	142	2.770	2.773	(1.202)	2302	0.47166	155.8147
5 Acenaphthylene	152	3.240	3.238	(0.974)	3562	0.52969	174.9840
7 Acenaphthene	154	3.341	3.345	(1.005)	415	0.49105	162.2205(Q)
9 Fluorene	166	3.651	3.649	(1.098)	963	0.34878	115.2208
11 Phenanthrene	178	4.260	4.264	(1.002)	16955	1.55266	512.9273
12 Anthracene	178	4.292	4.296	(1.010)	4596	0.43406	143.3943

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.452	4.456 (1.048)		2907	0.31324	103.4799
15 Fluoranthene	202	5.115	5.113 (1.204)		24900	2.30677	762.0503
16 Pyrene	202	5.275	5.279 (0.844)		19378	1.95037	644.3124
17 Benzo(a)anthracene	228	6.237	6.235 (0.998)		15341	1.69504	559.9631
19 Chrysene	228	6.258	6.262 (1.002)		15530	1.73036	571.6308
20 Benzo(b)fluoranthene	252	7.054	7.052 (0.961)		15602	2.80408	926.3399(M)
21 Benzo(k)fluoranthene	252	7.070	7.074 (0.964)		7409	0.77683	256.6302(QM)
22 Benzo(a)pyrene	252	7.284	7.282 (0.993)		9191	1.10765	365.9176
24 Indeno(1,2,3-cd)pyrene	276	8.026	8.035 (1.094)		5391	0.72004	237.8686(MH)
25 Dibenzo(a,h)anthracene	278	8.042	8.045 (1.096)		2983	0.40200	132.8024
26 Benzo(g,h,i)perylene	276	8.224	8.222 (1.121)		5081	0.67419	222.7200

QC Flag Legend

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

Data File: 1AC15015.D

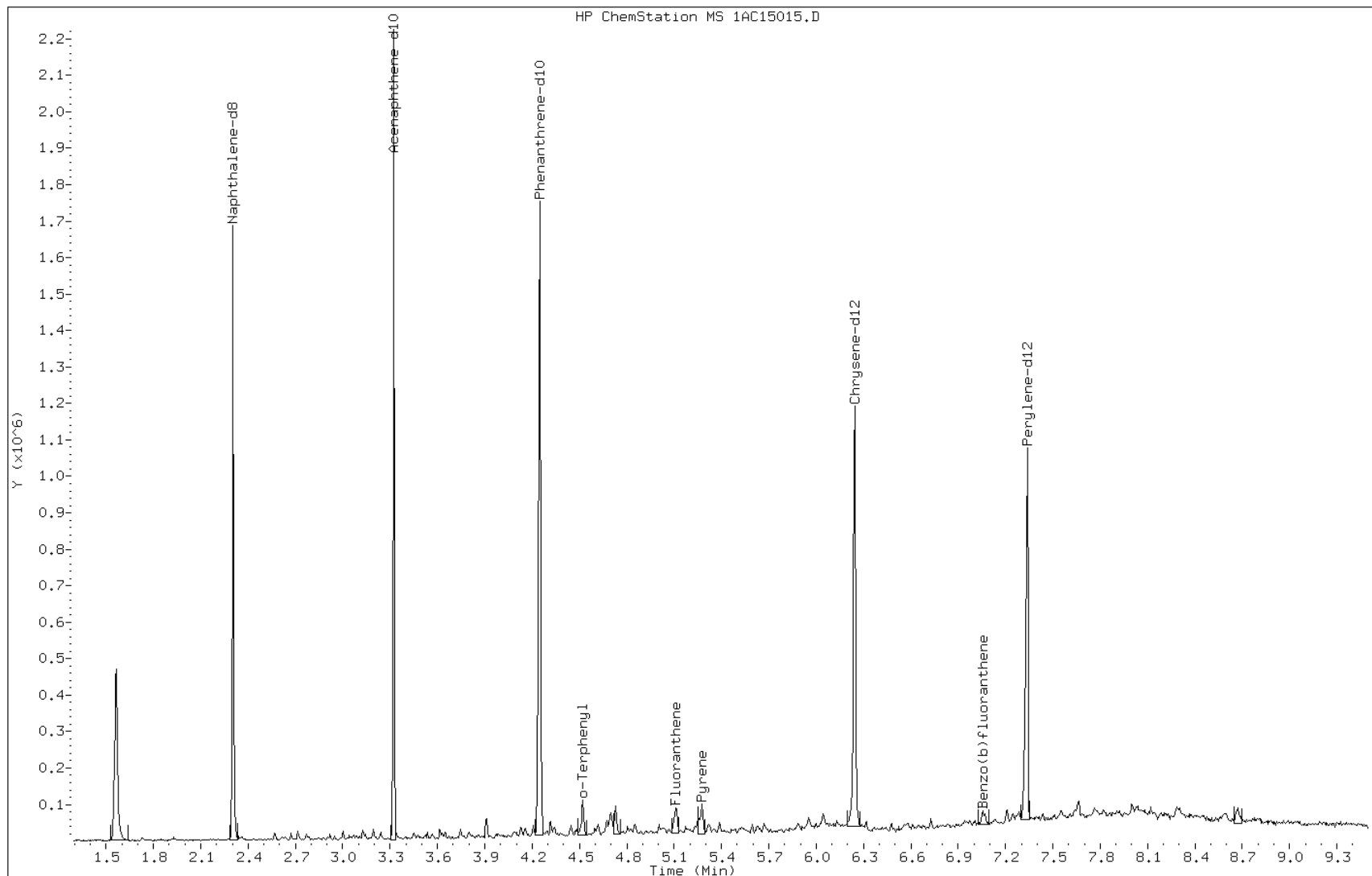
Date: 15-MAR-2013 16:17

Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

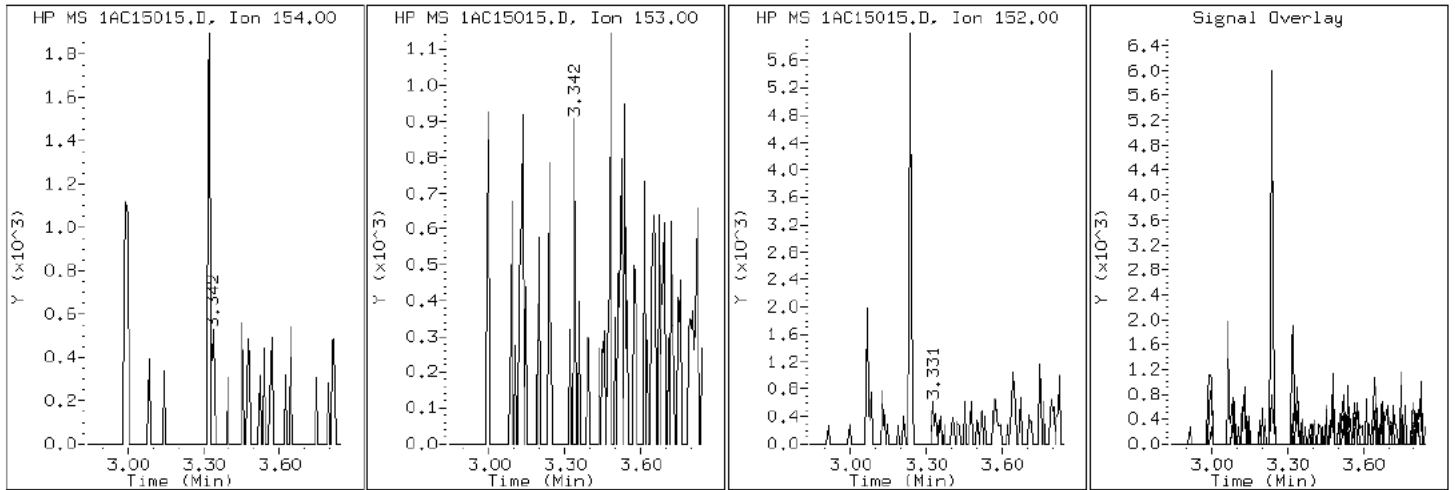
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

7 Acenaphthene



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

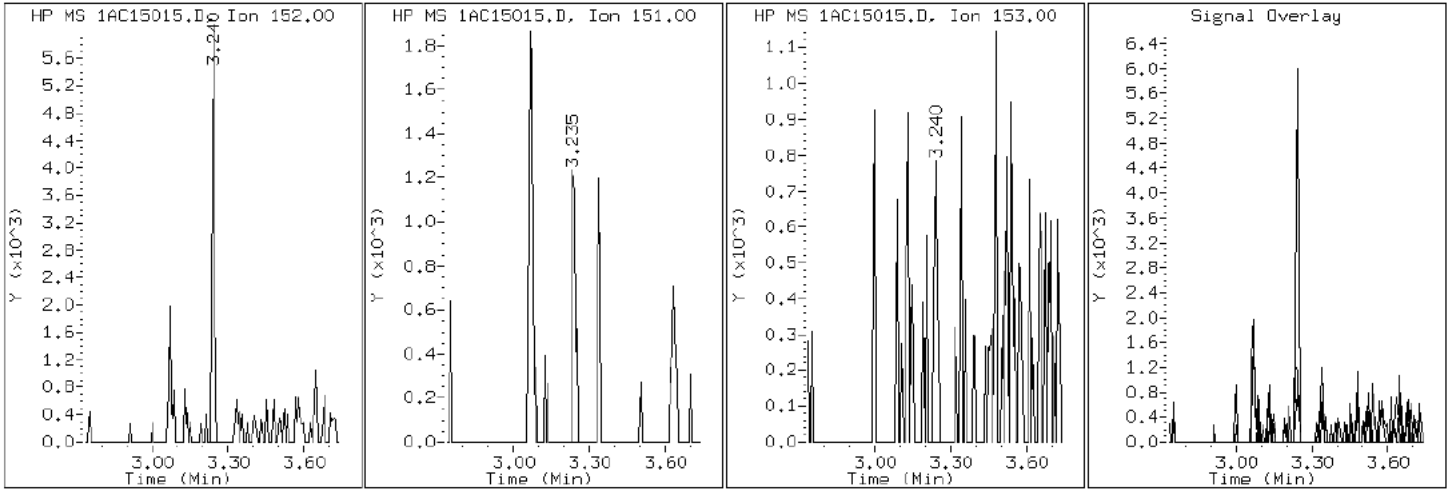
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

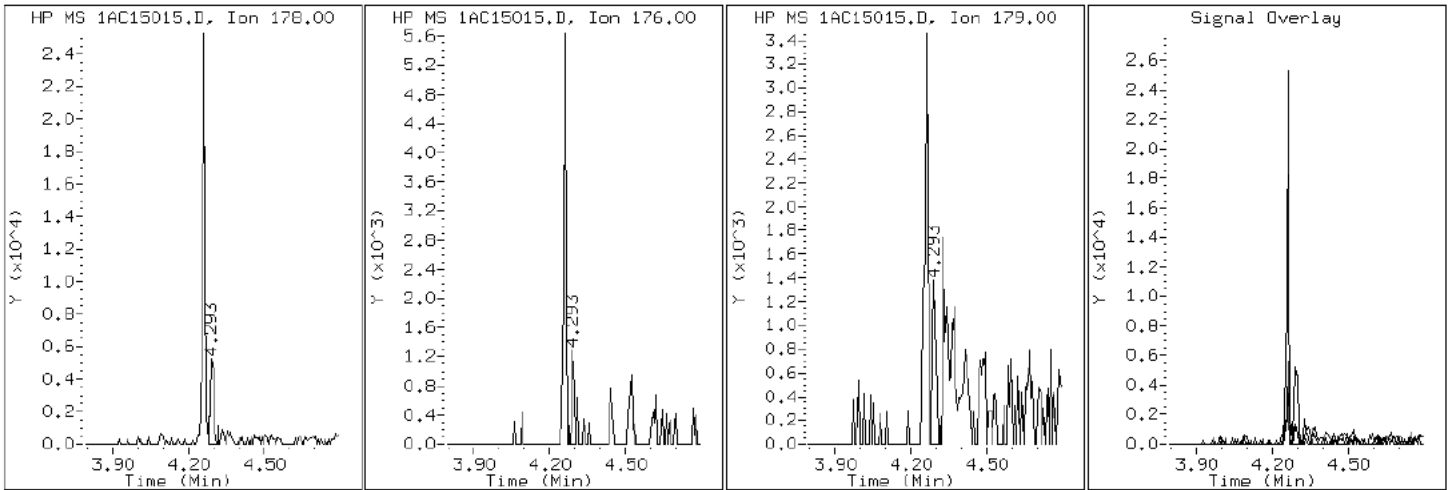
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

12 Anthracene



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

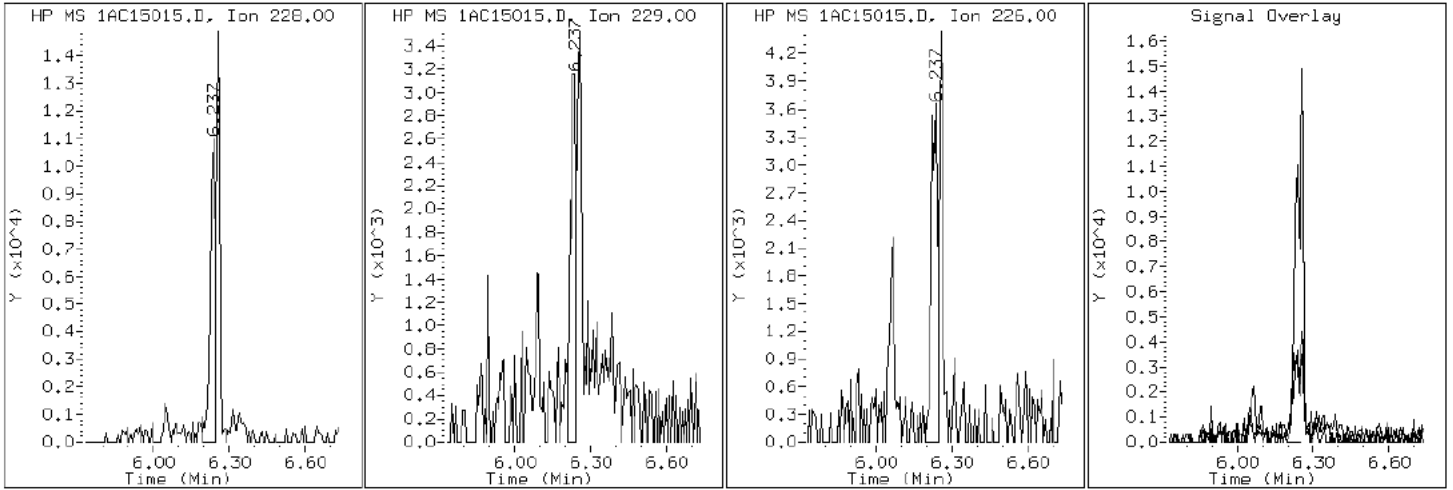
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

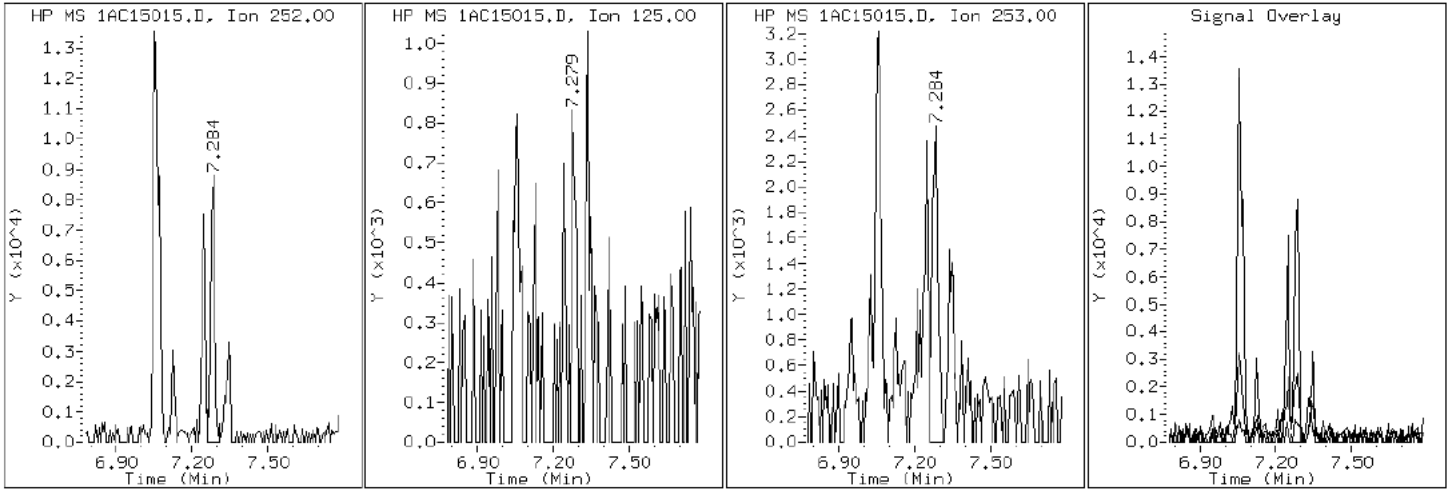
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

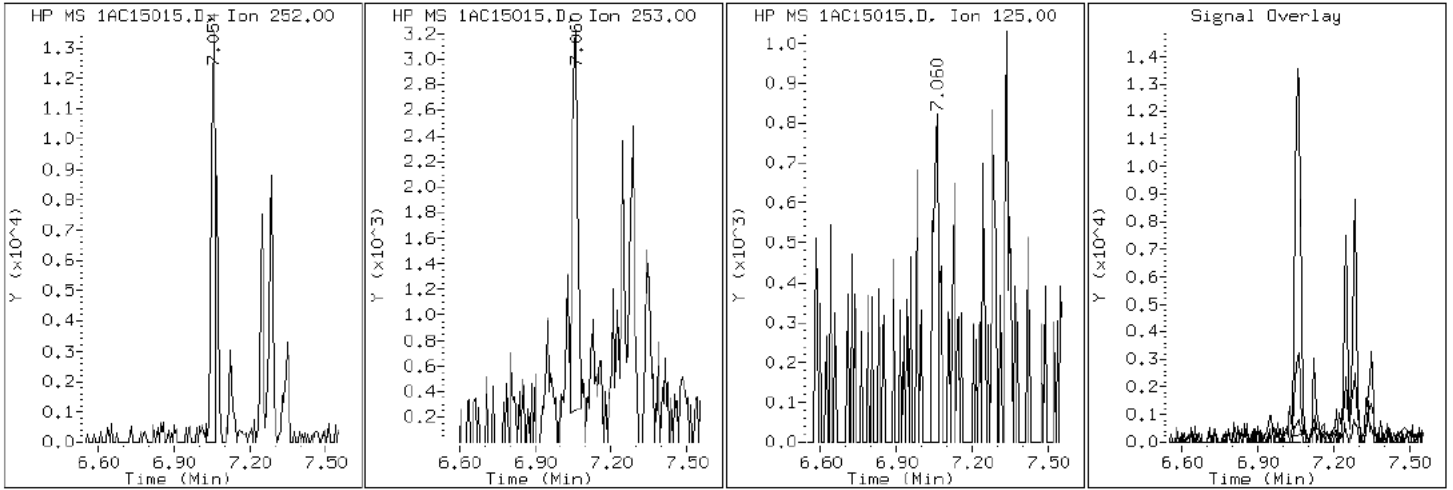
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

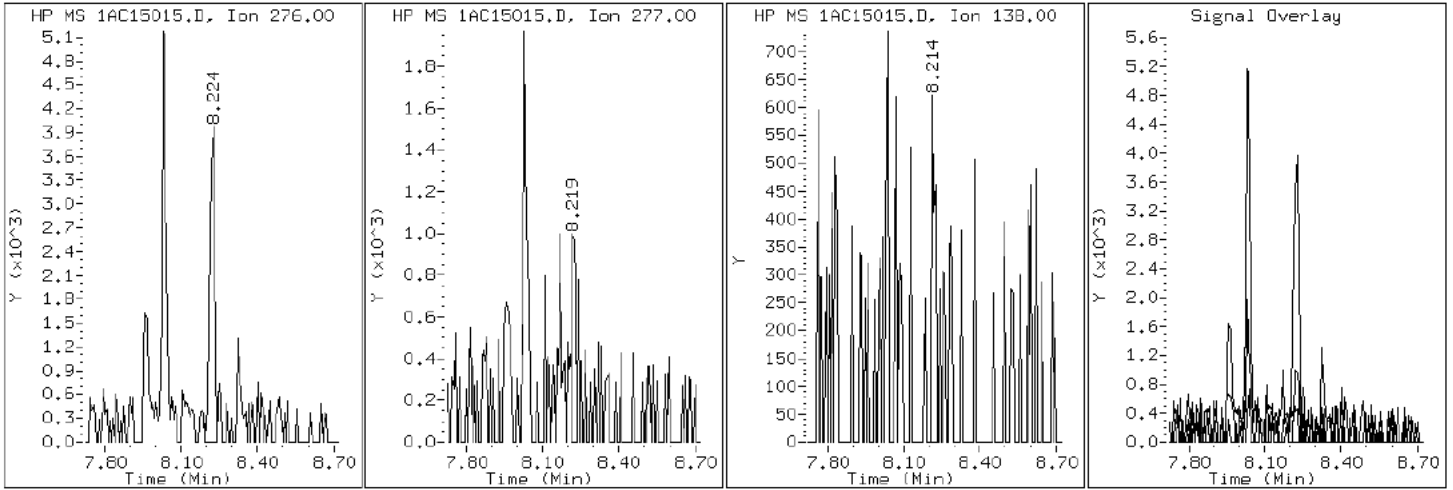
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

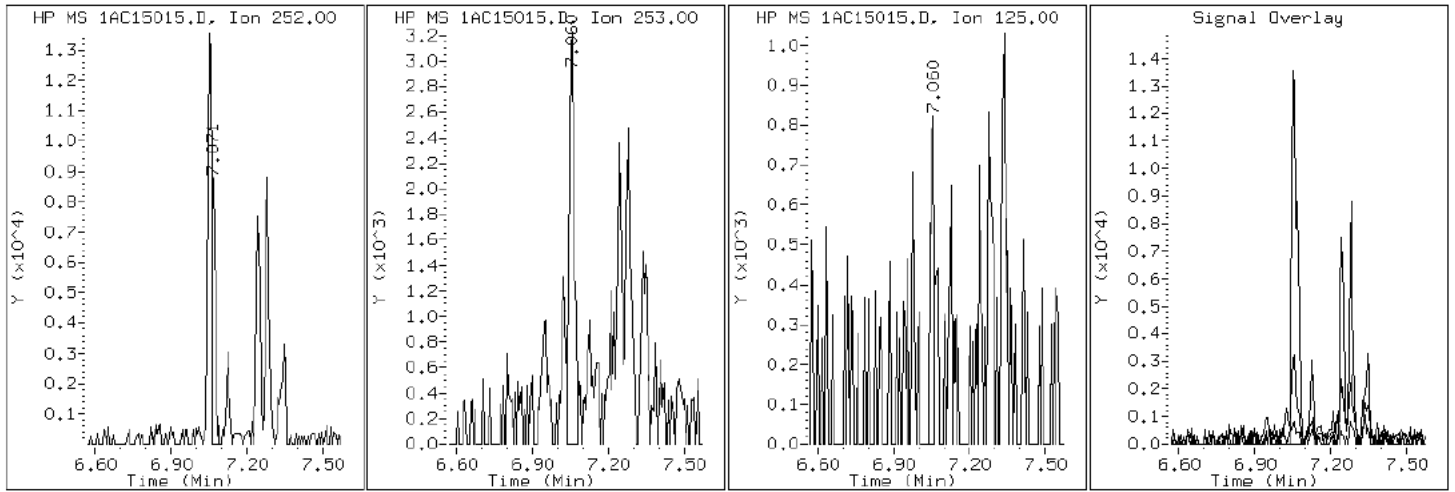
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

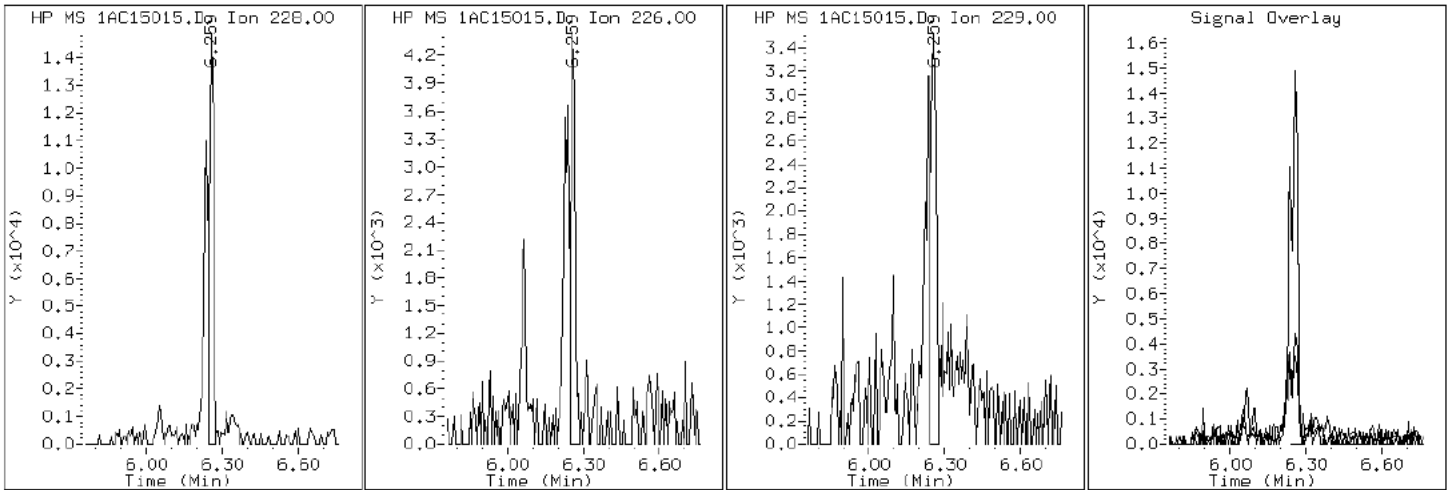
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

19 Chrysene



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

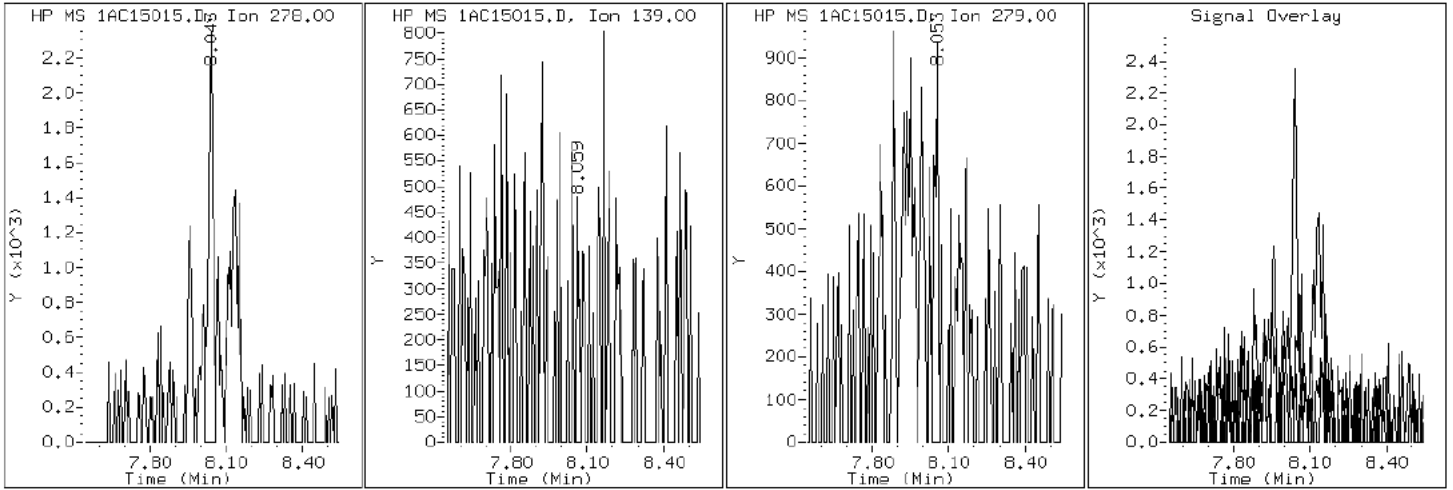
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

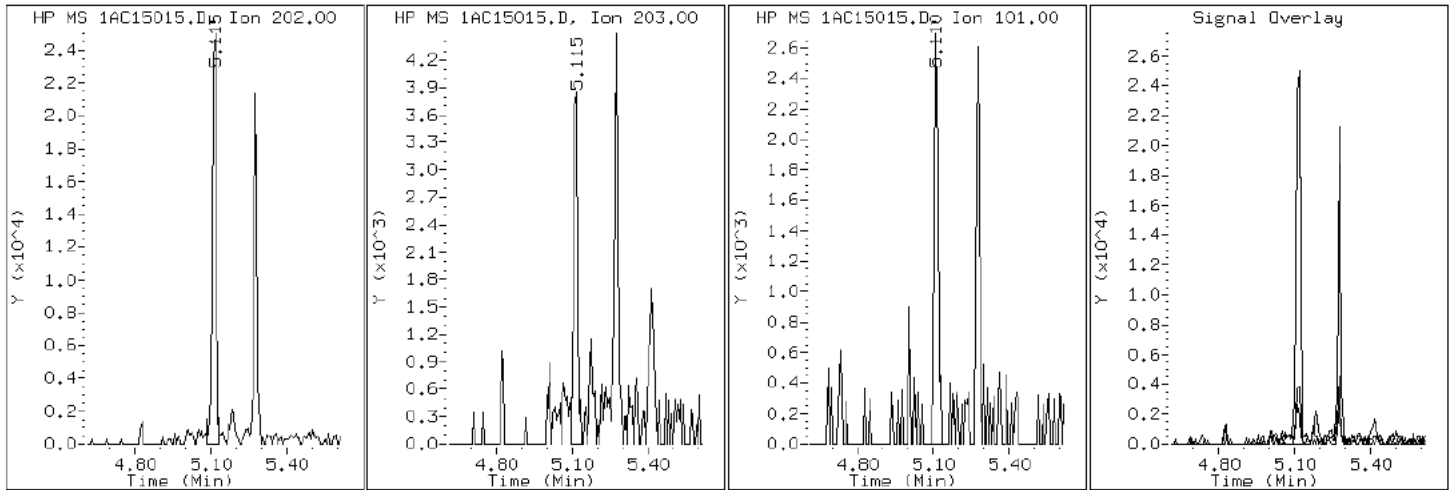
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

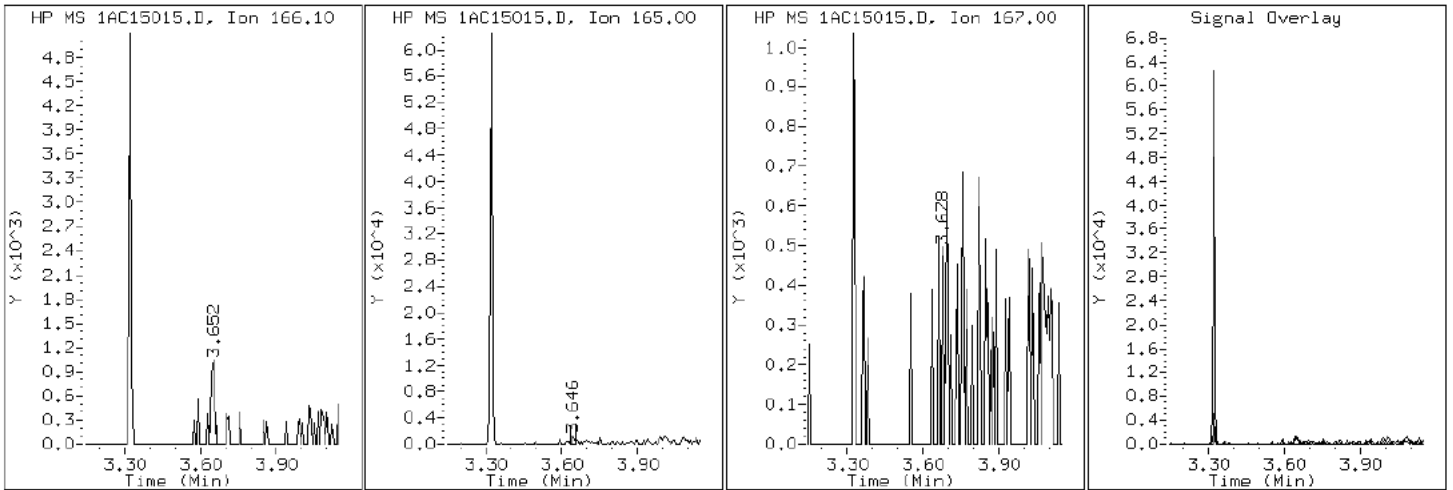
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

9 Fluorene



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

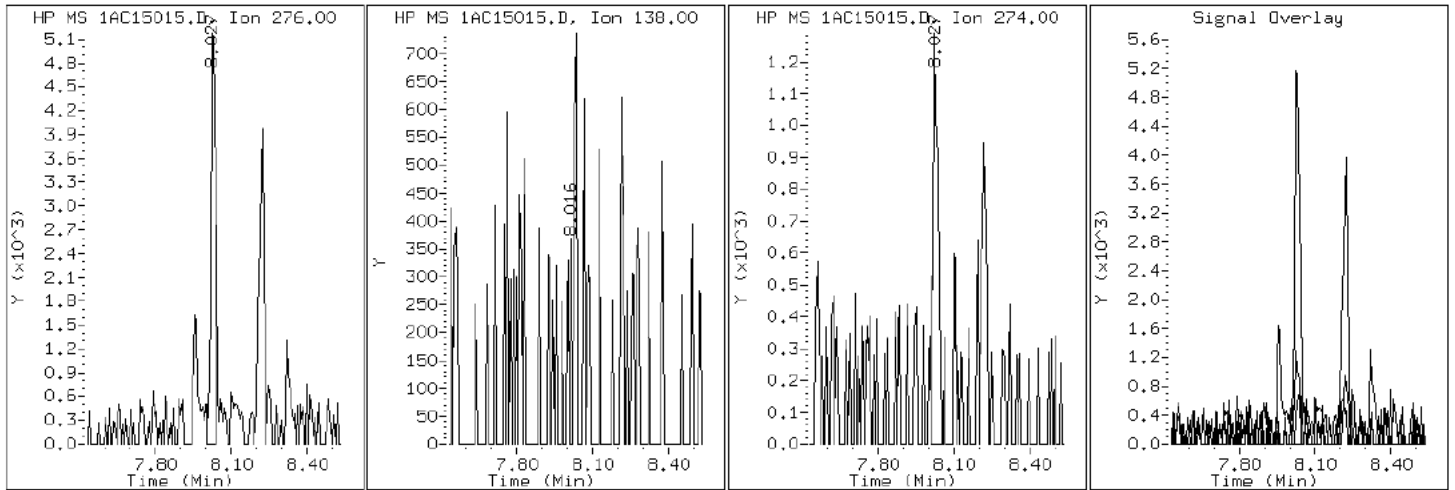
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

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



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

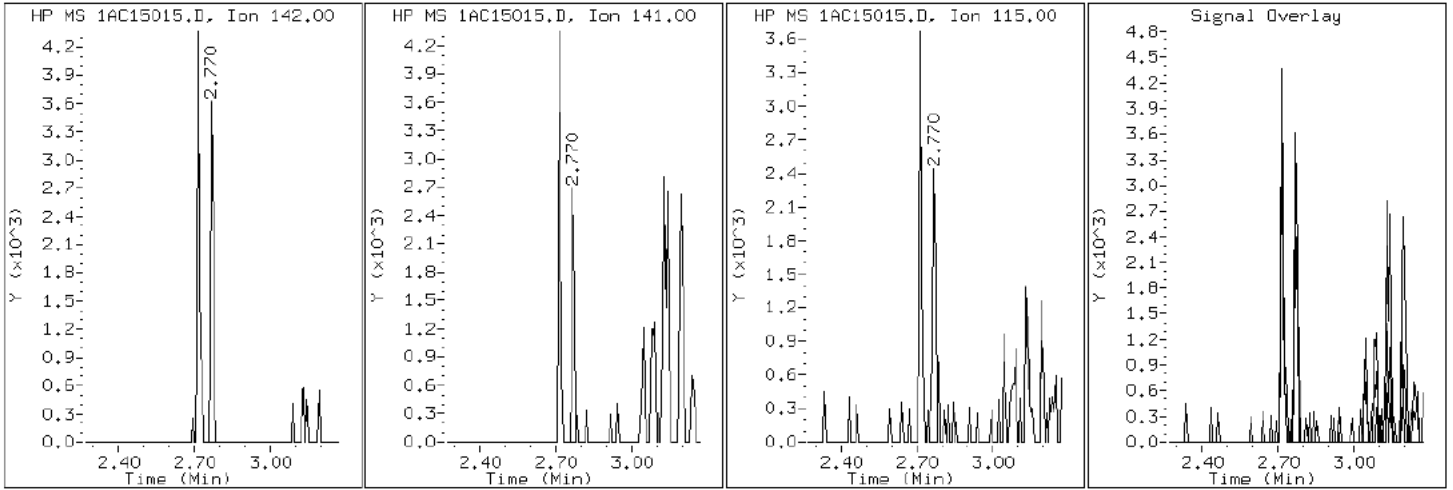
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

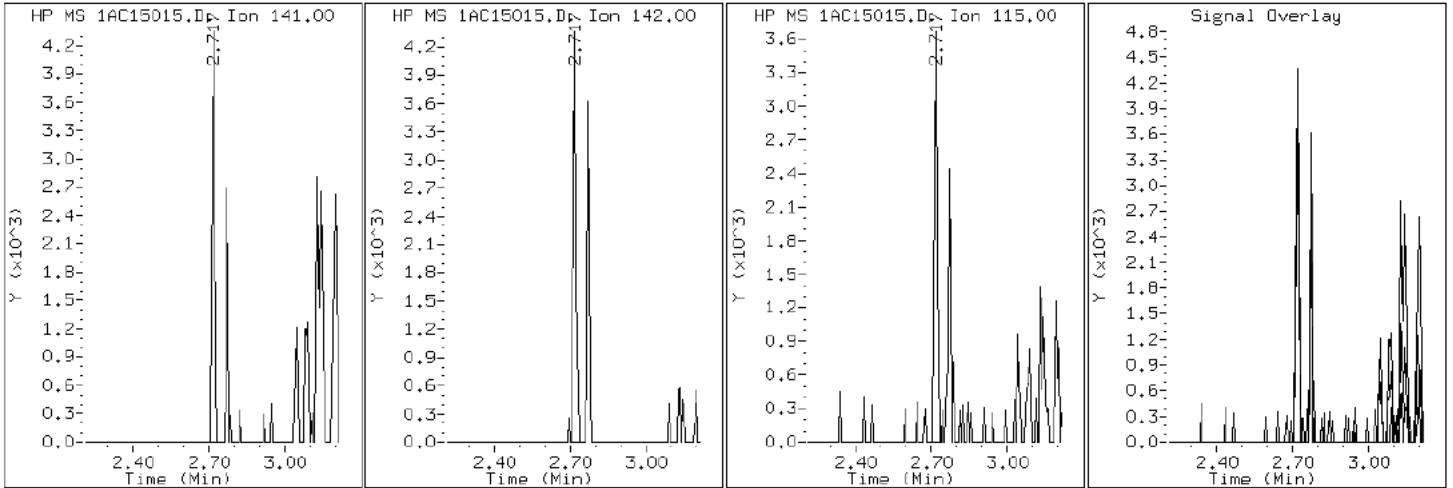
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

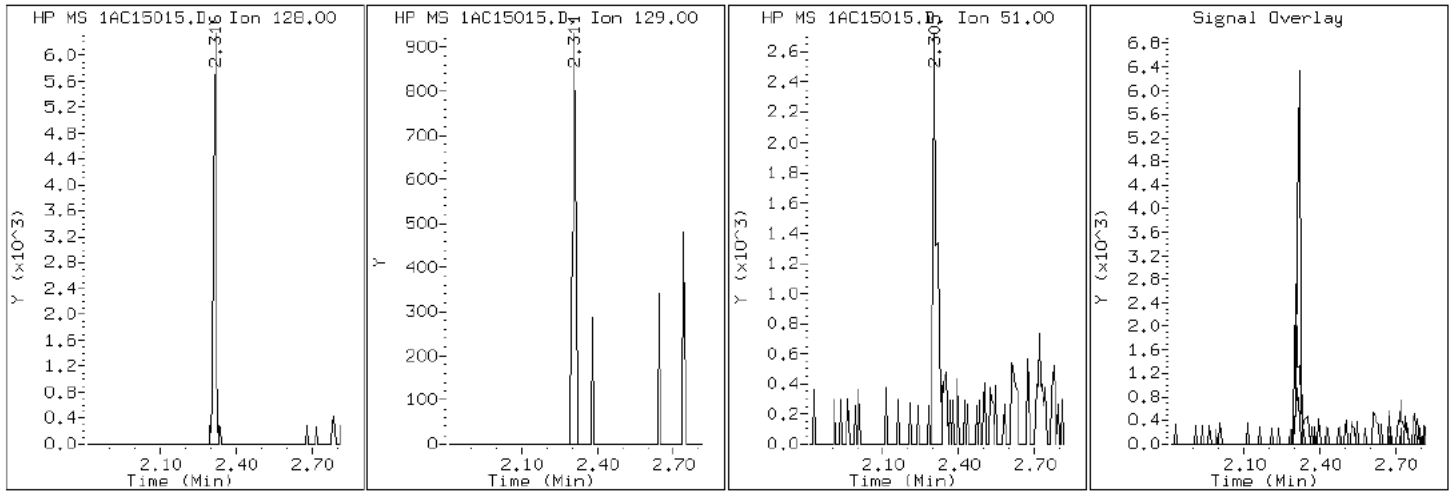
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

2 Naphthalene



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

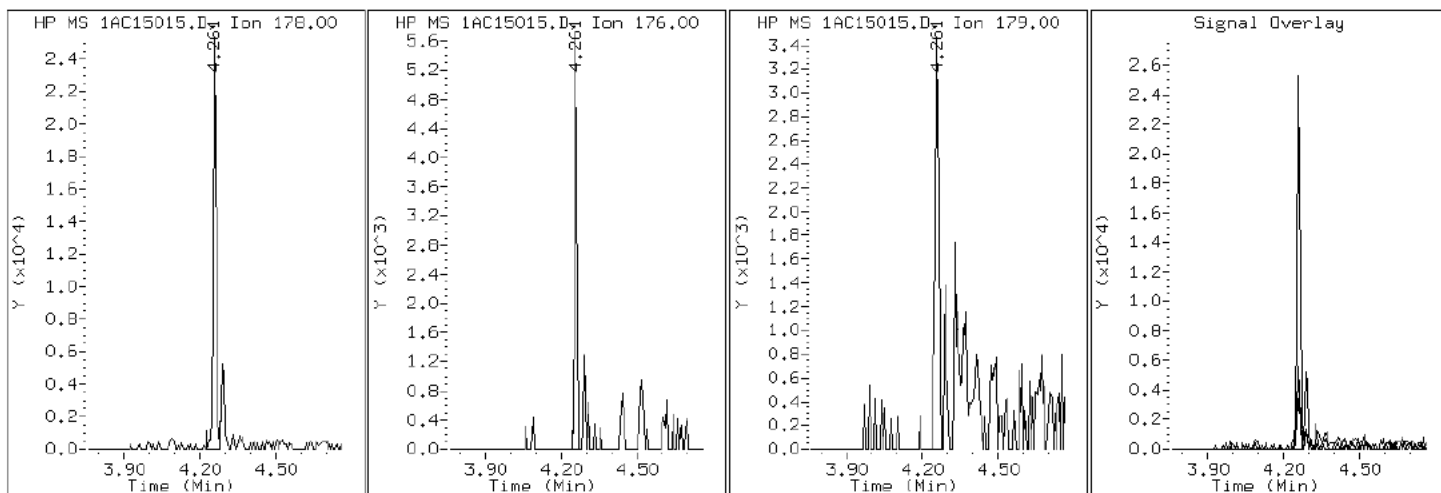
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15015.D

Date: 15-MAR-2013 16:17

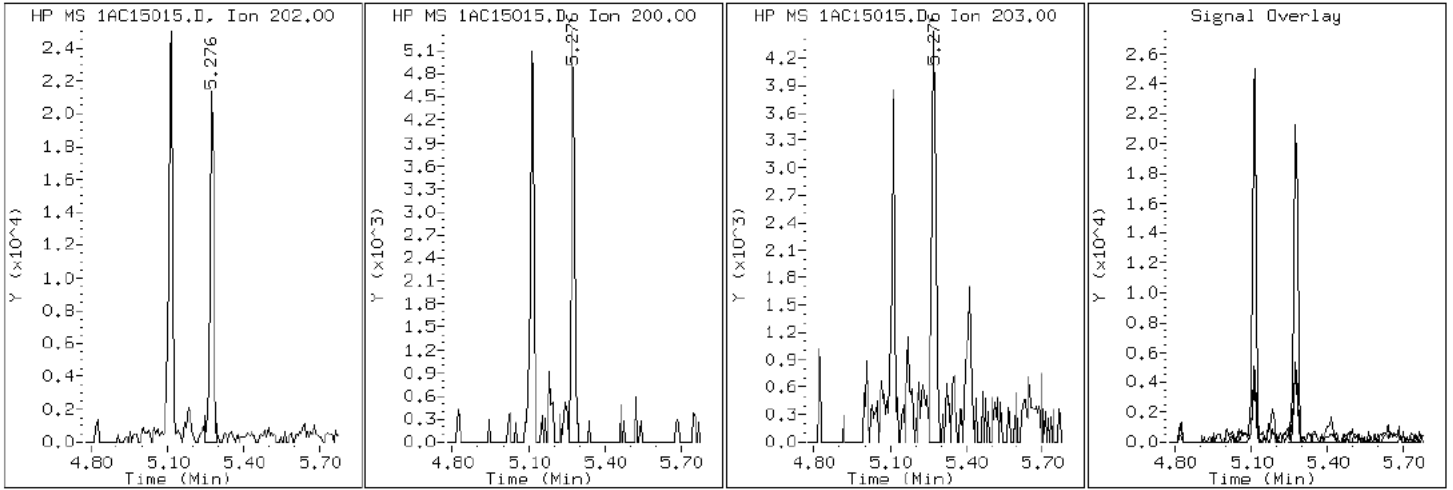
Client ID: CV0193A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-3-a

Operator: SCC

16 Pyrene

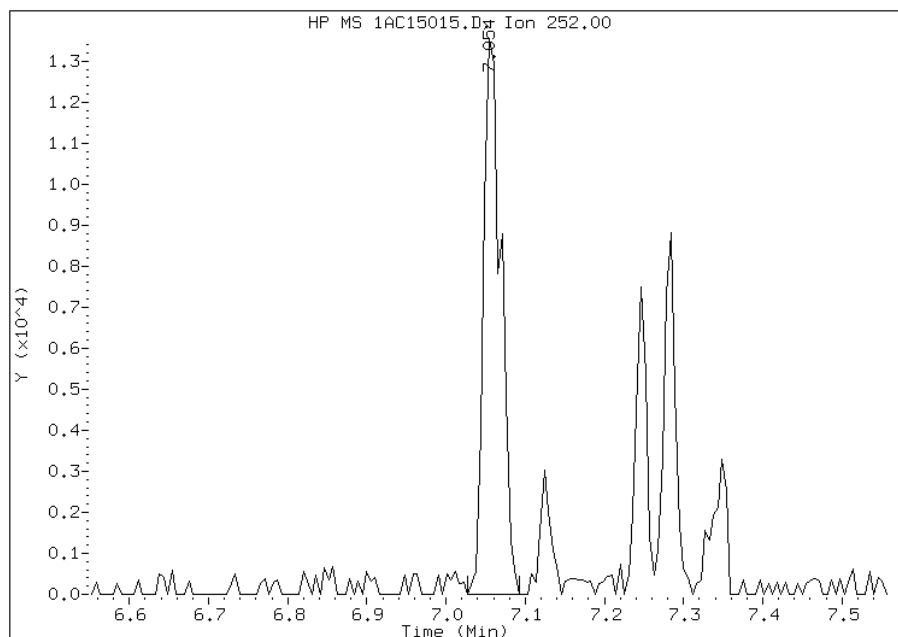


Manual Integration Report

Data File: 1AC15015.D
Inj. Date and Time: 15-MAR-2013 16:17
Instrument ID: BSMA5973.i
Client ID: CV0193A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

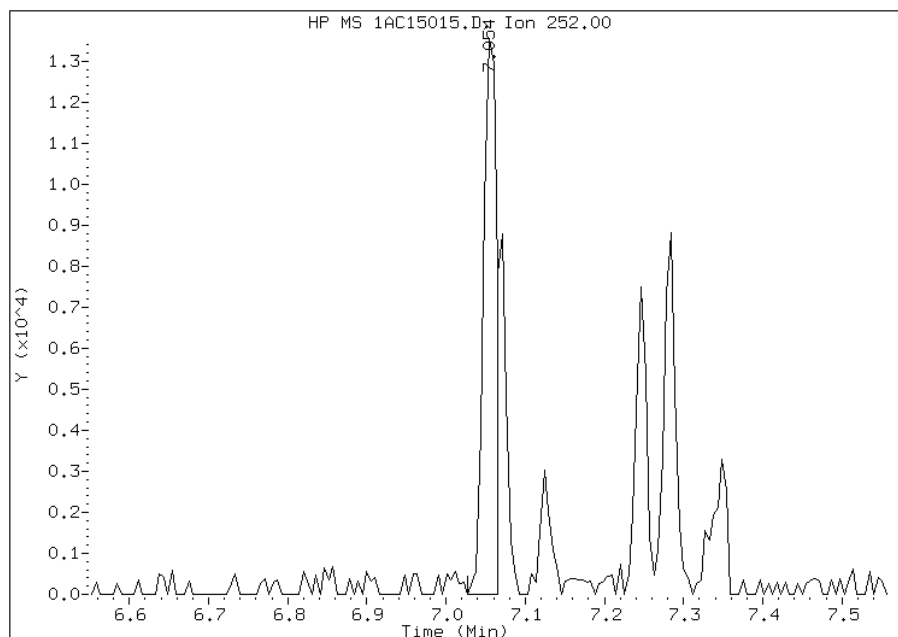
Processing Integration Results

RT: 7.05
Response: 20543
Amount: 3
Conc: 1094



Manual Integration Results

RT: 7.05
Response: 15602
Amount: 3
Conc: 926



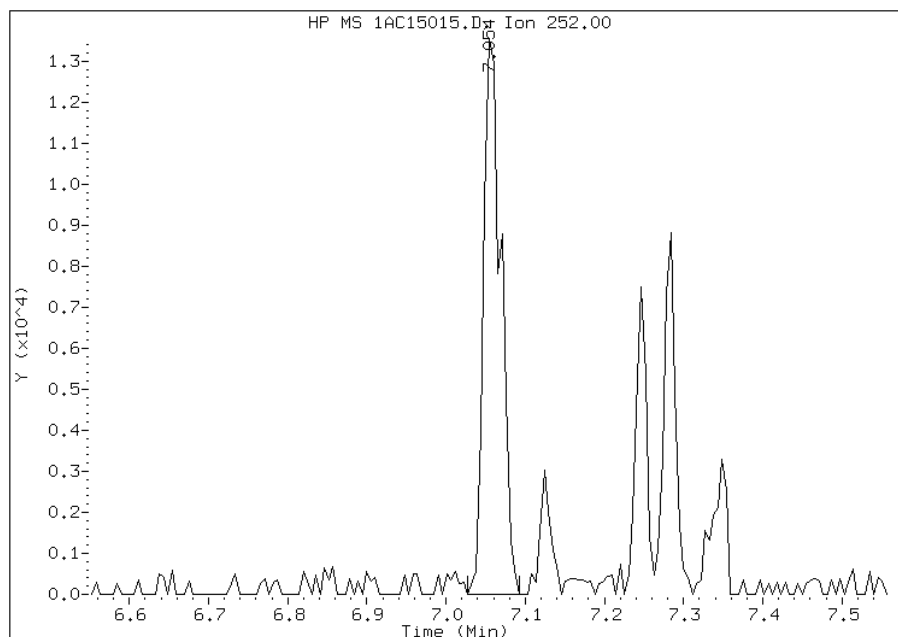
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:40
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15015.D
Inj. Date and Time: 15-MAR-2013 16:17
Instrument ID: BSMA5973.i
Client ID: CV0193A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

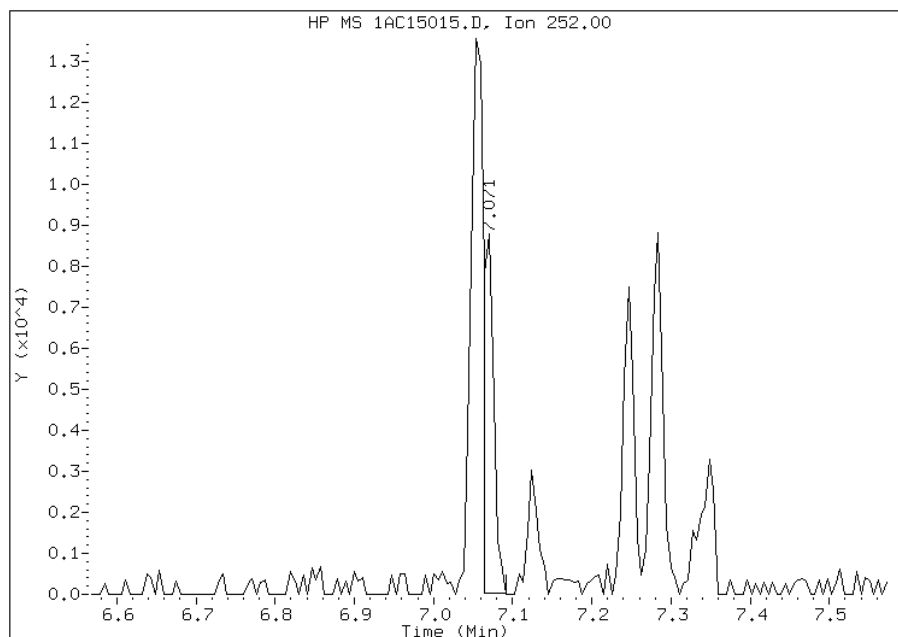
Processing Integration Results

RT: 7.05
Response: 20543
Amount: 2
Conc: 712



Manual Integration Results

RT: 7.07
Response: 7409
Amount: 1
Conc: 257



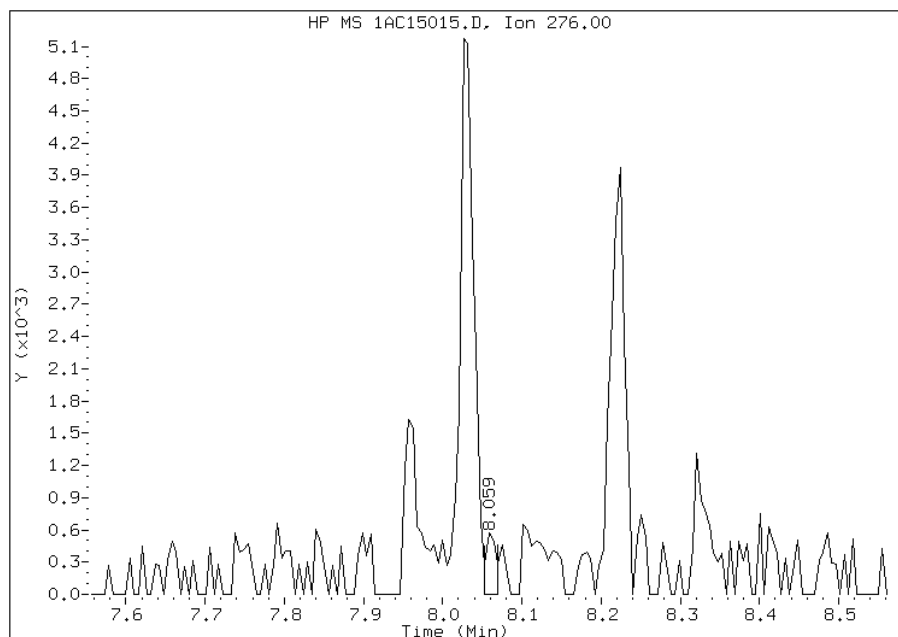
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15015.D
Inj. Date and Time: 15-MAR-2013 16:17
Instrument ID: BSMA5973.i
Client ID: CV0193A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

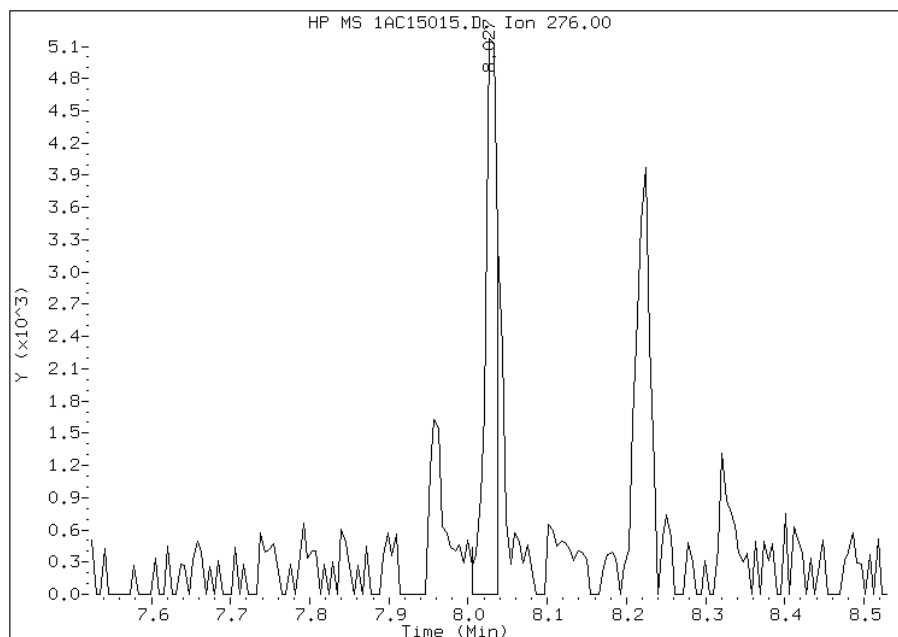
Processing Integration Results

RT: 8.06
Response: 525
Amount: 0
Conc: 23



Manual Integration Results

RT: 8.03
Response: 5391
Amount: 1
Conc: 238



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0628A-CS-SP Lab Sample ID: 680-88118-4
 Matrix: Solid Lab File ID: 1AC15016.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 08:25
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.01(g) Date Analyzed: 03/15/2013 16:33
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 30.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	51	J	140	29
208-96-8	Acenaphthylene	32	J	57	7.1
120-12-7	Anthracene	26		12	6.0
56-55-3	Benzo[a]anthracene	130		11	5.6
50-32-8	Benzo[a]pyrene	92		15	7.4
205-99-2	Benzo[b]fluoranthene	260		17	8.7
191-24-2	Benzo[g,h,i]perylene	84		29	6.3
207-08-9	Benzo[k]fluoranthene	55		11	5.1
218-01-9	Chrysene	190		13	6.4
53-70-3	Dibenz(a,h)anthracene	30		29	5.9
206-44-0	Fluoranthene	140		29	5.7
86-73-7	Fluorene	36		29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	74		29	10
90-12-0	1-Methylnaphthalene	81		57	6.3
91-57-6	2-Methylnaphthalene	160		57	10
91-20-3	Naphthalene	89		57	6.3
85-01-8	Phenanthrene	160		11	5.6
129-00-0	Pyrene	190		29	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	70		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15016.D
 Lab Smp Id: 680-88118-A-4-A Client Smp ID: CV0628A-CS-SP
 Inj Date : 15-MAR-2013 16:33
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-4-a
 Misc Info : 680-88118-A-4-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 16
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	30.068	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.303	2.303	(1.000)	410835	40.0000	
* 6 Acenaphthene-d10	164		3.324	3.324	(1.000)	288899	40.0000	
* 10 Phenanthrene-d10	188		4.248	4.248	(1.000)	431346	40.0000	
\$ 14 o-Terphenyl	230		4.520	4.526	(1.064)	39391	6.97657	664.6416
* 18 Chrysene-d12	240		6.246	6.246	(1.000)	261681	40.0000	
* 23 Perylene-d12	264		7.336	7.330	(1.000)	278845	40.0000	
2 Naphthalene	128		2.314	2.314	(1.005)	8863	0.93377	88.9576
3 2-Methylnaphthalene	141		2.715	2.715	(1.179)	4758	1.69801	161.7657
4 1-Methylnaphthalene	142		2.768	2.773	(1.202)	4664	0.85454	81.4100
5 Acenaphthylene	152		3.238	3.238	(0.974)	1725	0.33274	31.6997
7 Acenaphthene	154		3.340	3.345	(1.005)	704	0.53598	51.0617(Q)
9 Fluorene	166		3.650	3.649	(1.098)	1236	0.38062	36.2607
11 Phenanthrene	178		4.259	4.264	(1.002)	18906	1.72936	164.7524
12 Anthracene	178		4.291	4.296	(1.010)	2843	0.26820	25.5507

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	4.456	4.456	(1.049)	2161	0.23259	22.1584
15 Fluoranthene	202	5.113	5.113	(1.204)	15749	1.45736	138.8389
16 Pyrene	202	5.279	5.279	(0.845)	14706	1.96002	186.7261
17 Benzo(a)anthracene	228	6.241	6.235	(0.999)	9151	1.37428	130.9246
19 Chrysene	228	6.262	6.262	(1.003)	13323	1.96573	187.2704
20 Benzo(b)fluoranthene	252	7.058	7.052	(0.962)	11739	2.73050	260.1283(M)
21 Benzo(k)fluoranthene	252	7.069	7.074	(0.964)	4368	0.58073	55.3245(QMH)
22 Benzo(a)pyrene	252	7.282	7.282	(0.993)	6342	0.96914	92.3280
24 Indeno(1,2,3-cd)pyrene	276	8.041	8.035	(1.096)	4583	0.77617	73.9442(M)
25 Dibenzo(a,h)anthracene	278	8.041	8.045	(1.096)	1859	0.31767	30.2634(Q)
26 Benzo(g,h,i)perylene	276	8.228	8.222	(1.122)	5260	0.88499	84.3107

QC Flag Legend

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

Data File: 1AC15016.D

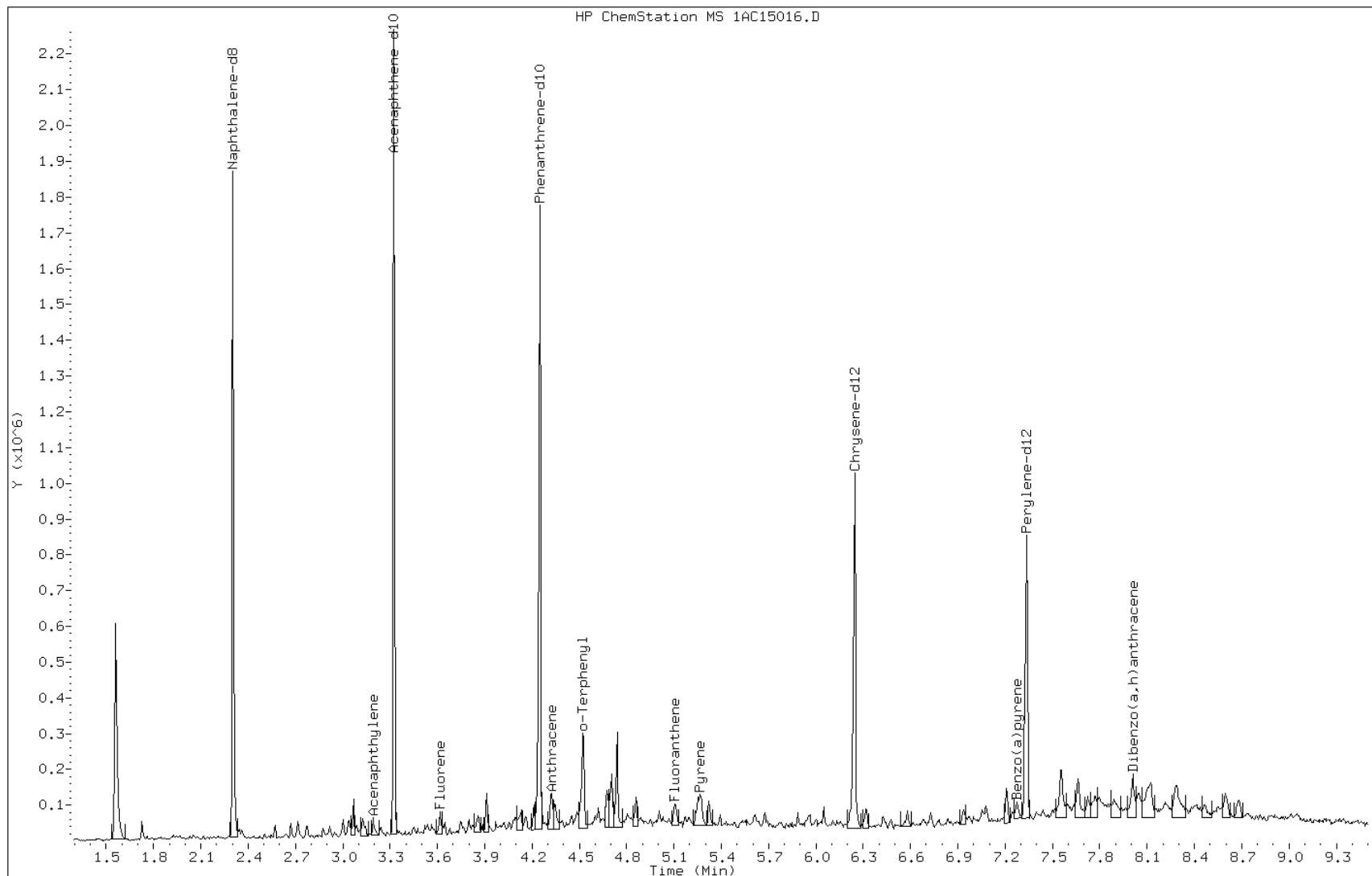
Date: 15-MAR-2013 16:33

Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

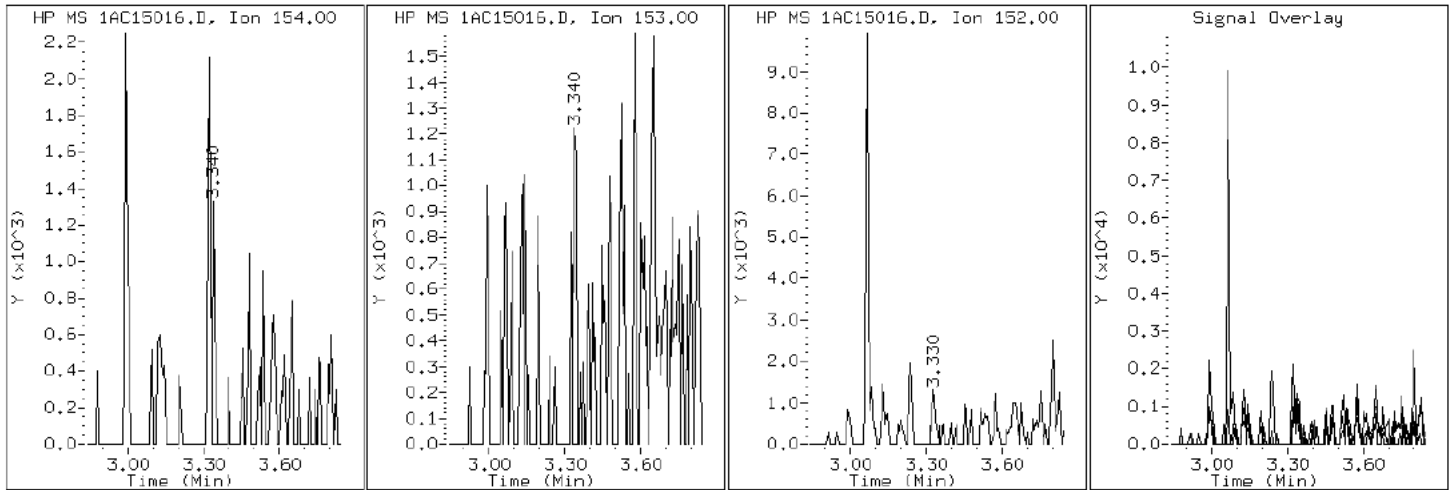
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

7 Acenaphthene



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

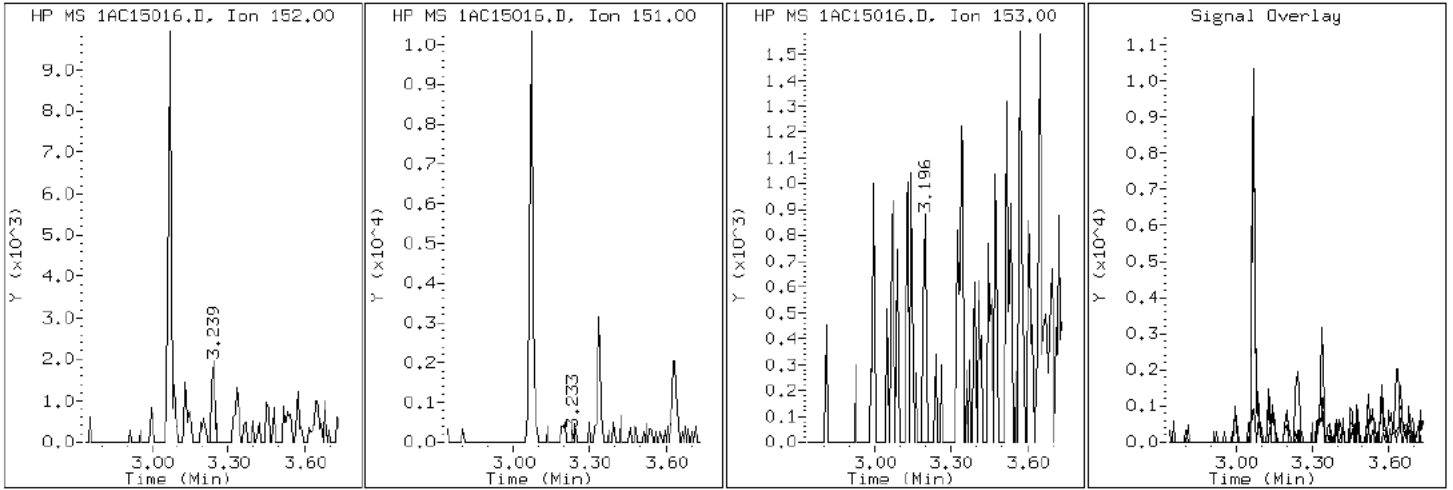
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

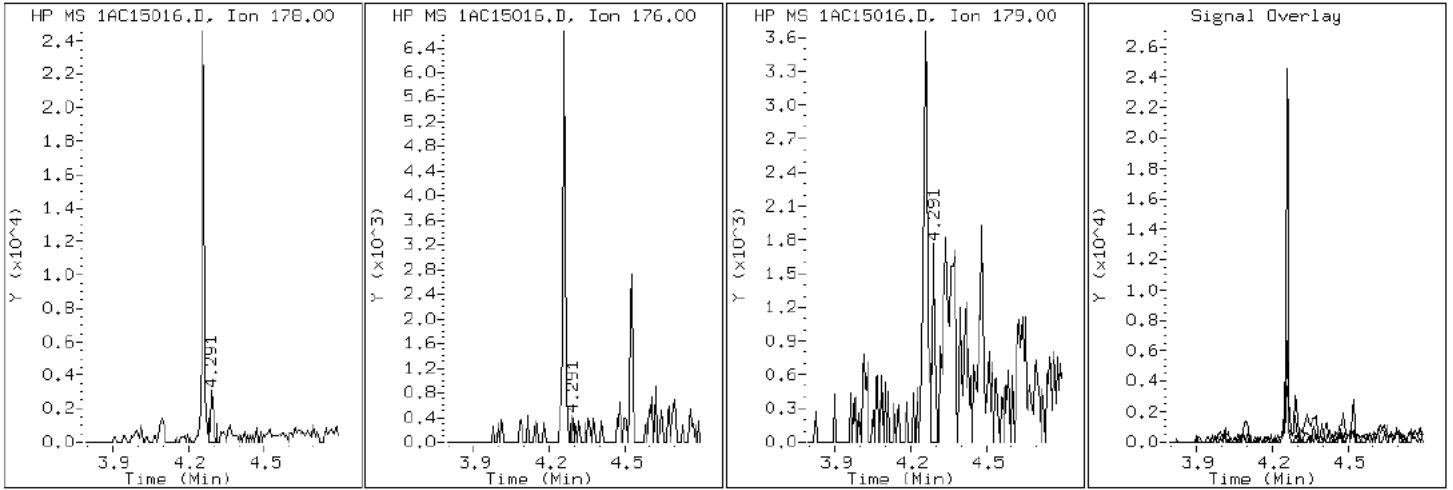
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

12 Anthracene



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

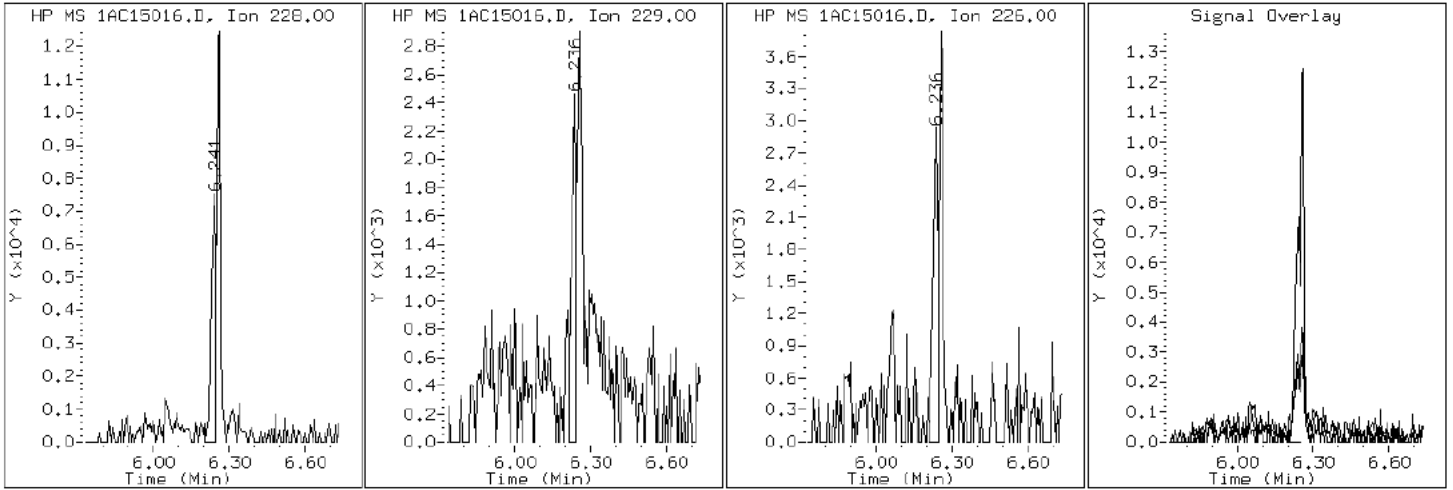
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

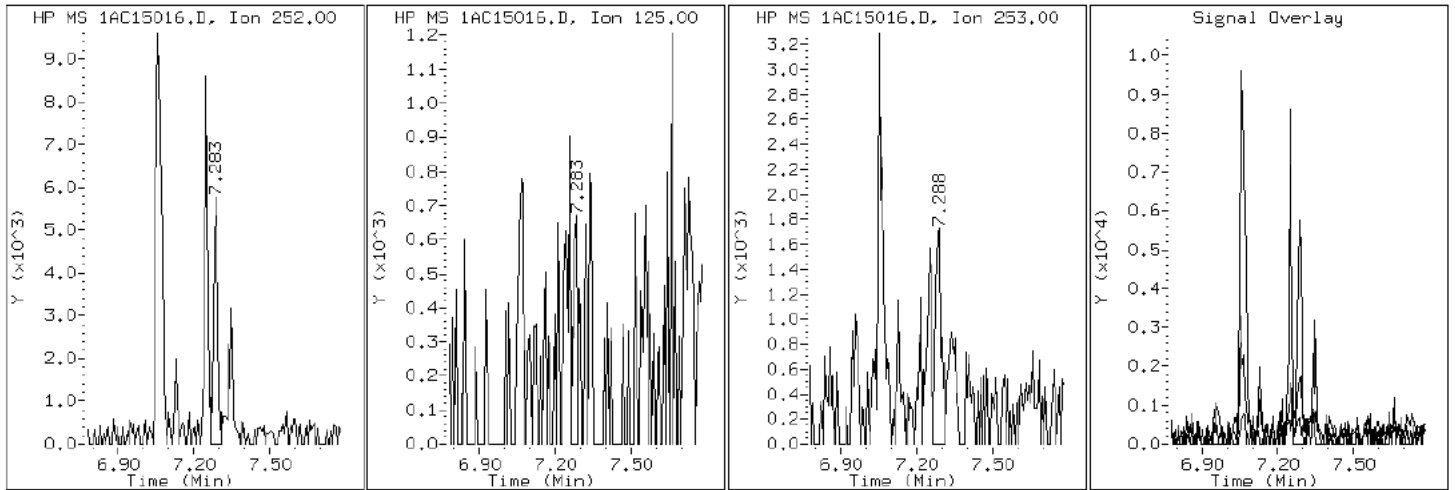
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

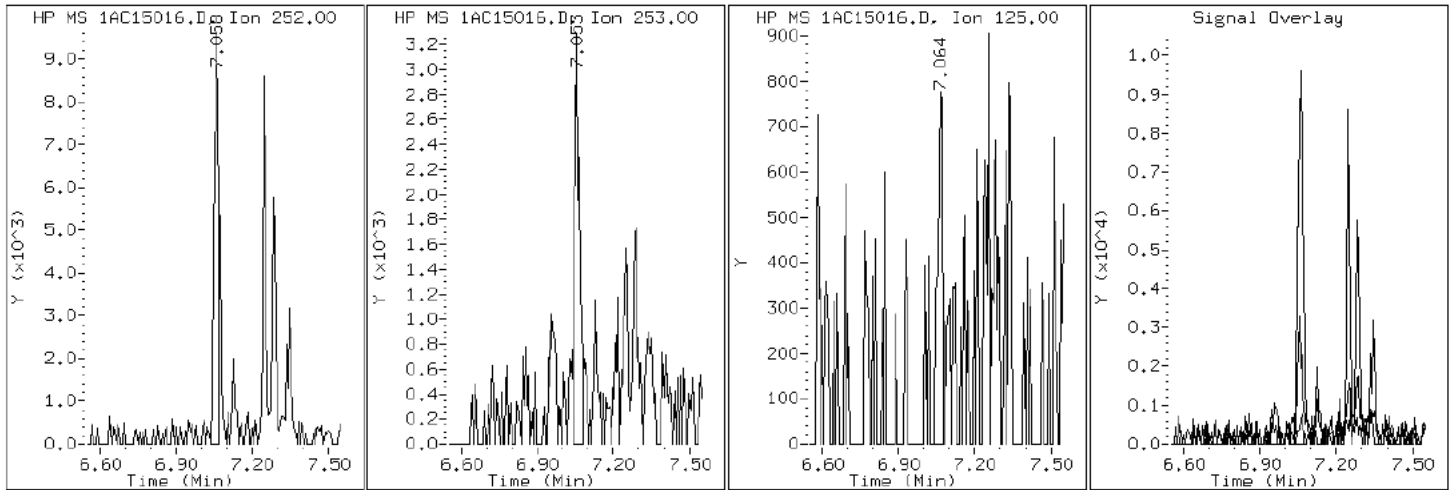
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

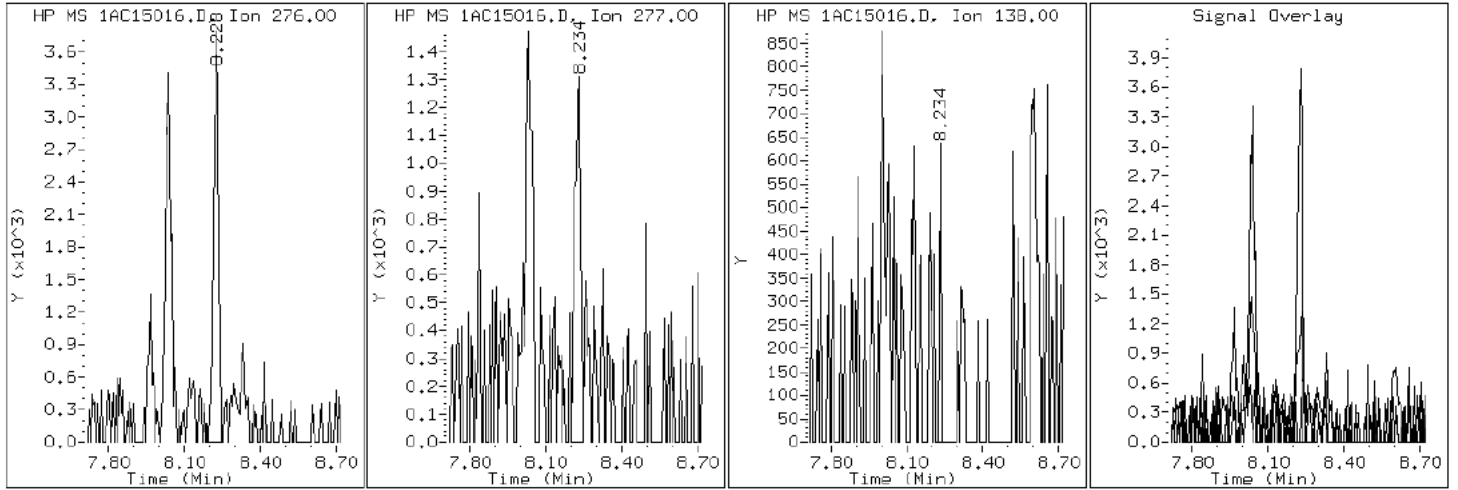
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

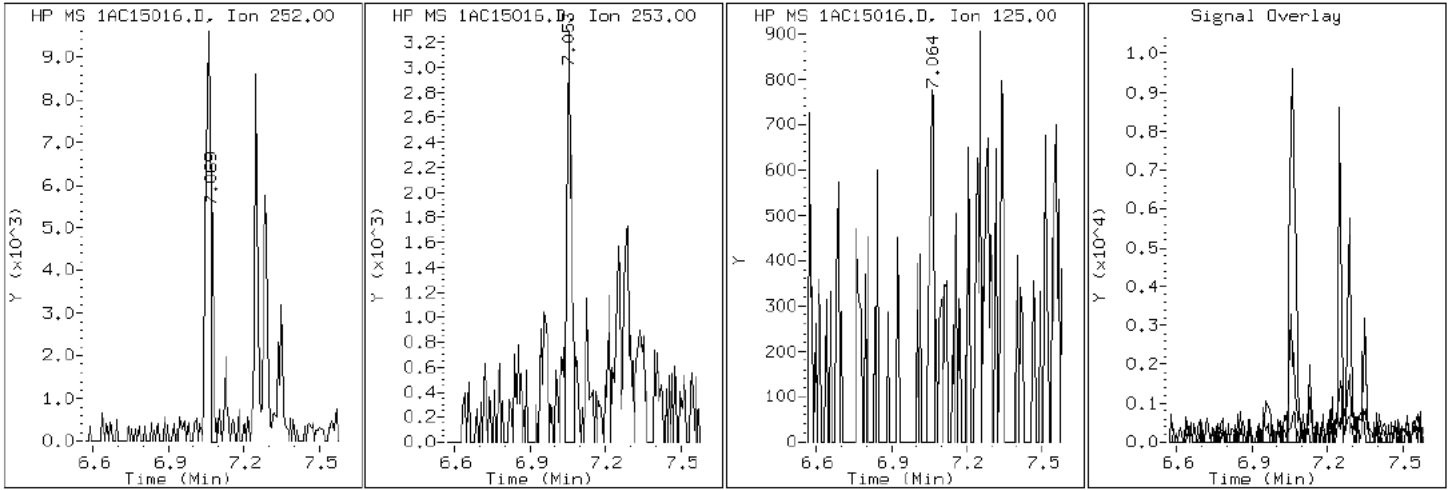
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

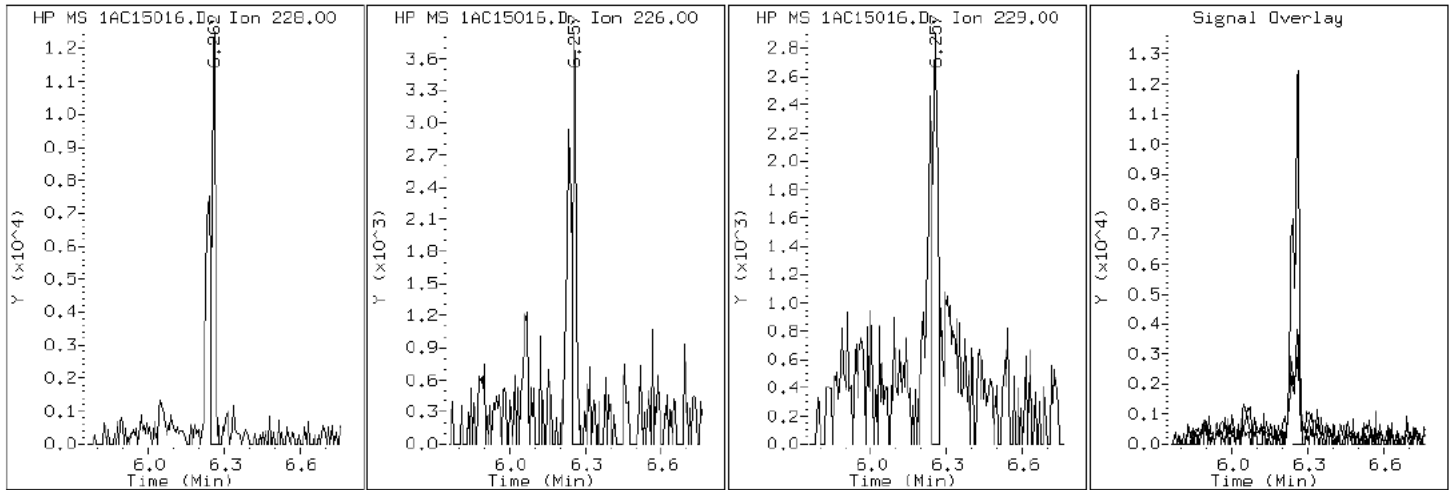
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

19 Chrysene



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

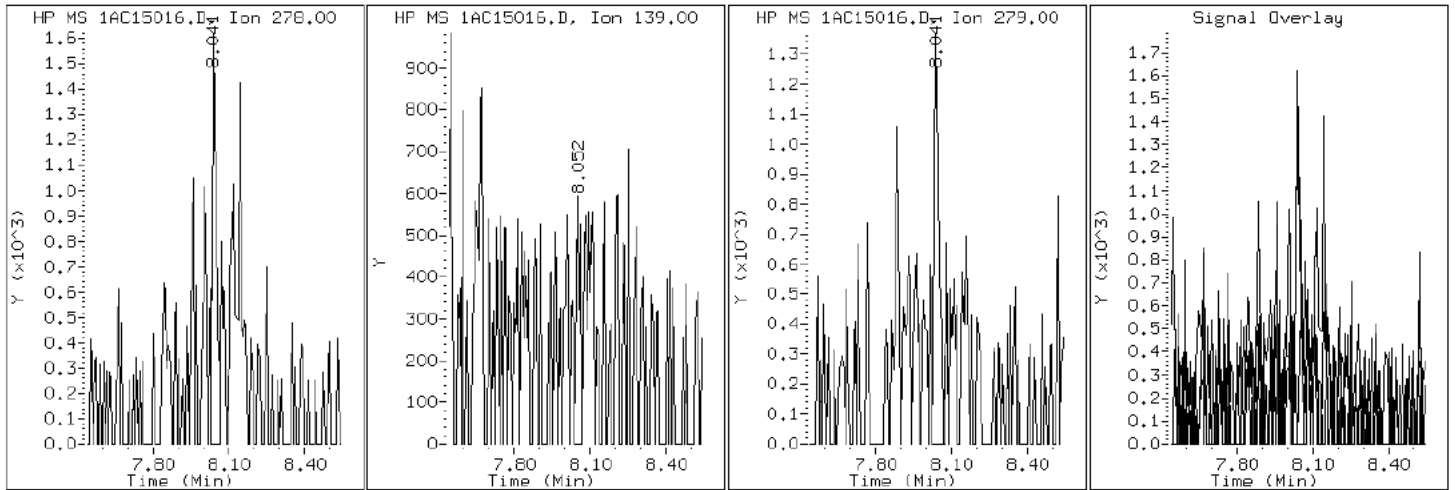
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

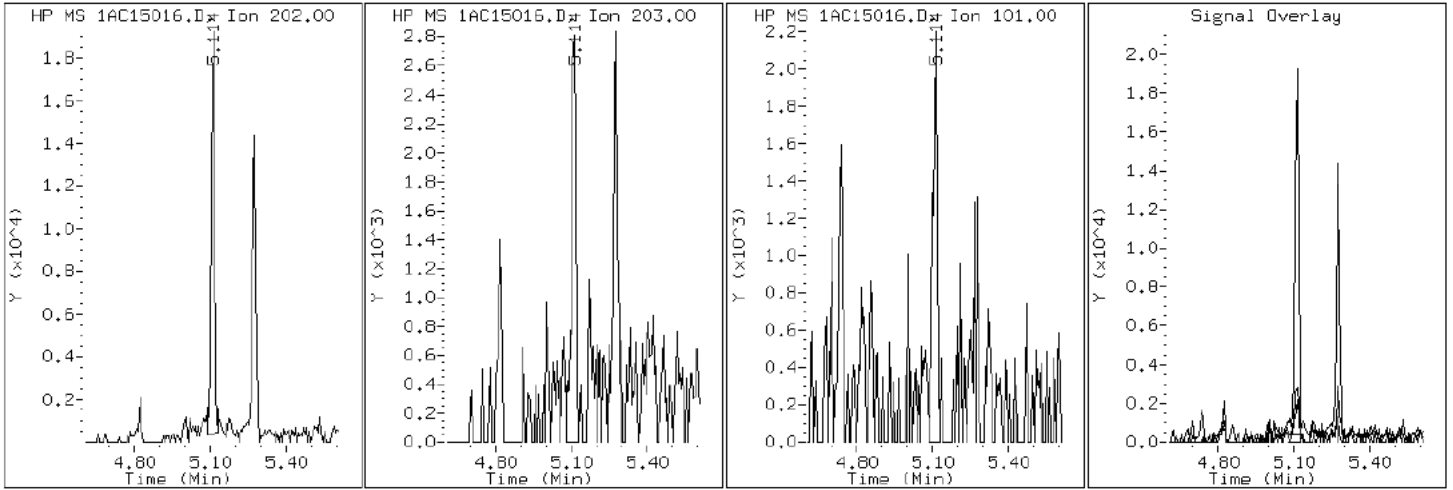
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

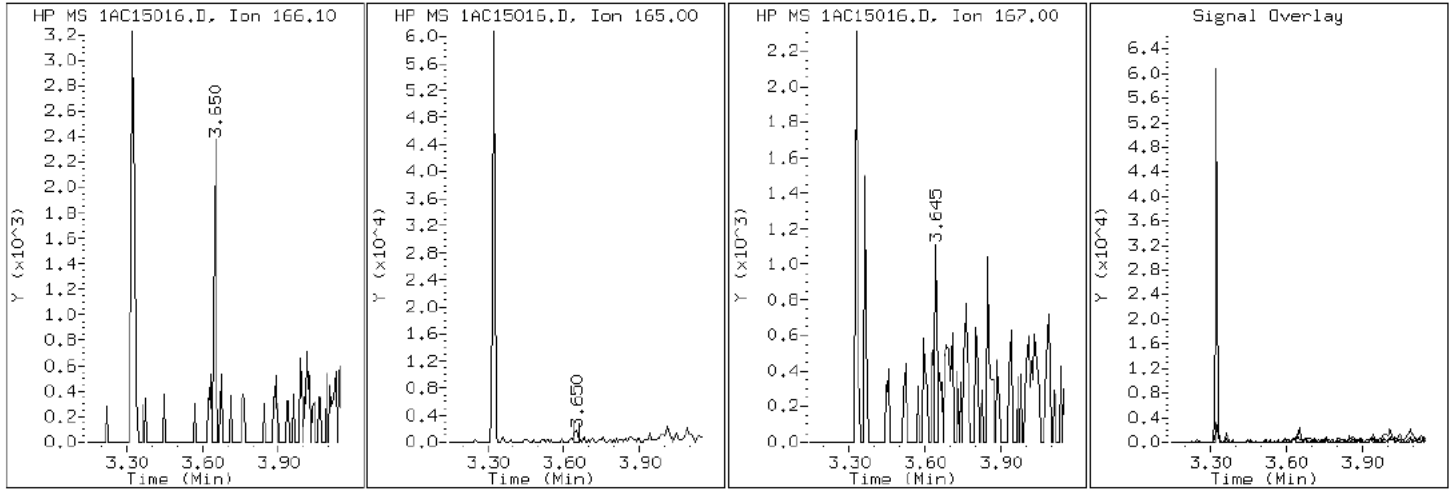
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

9 Fluorene



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

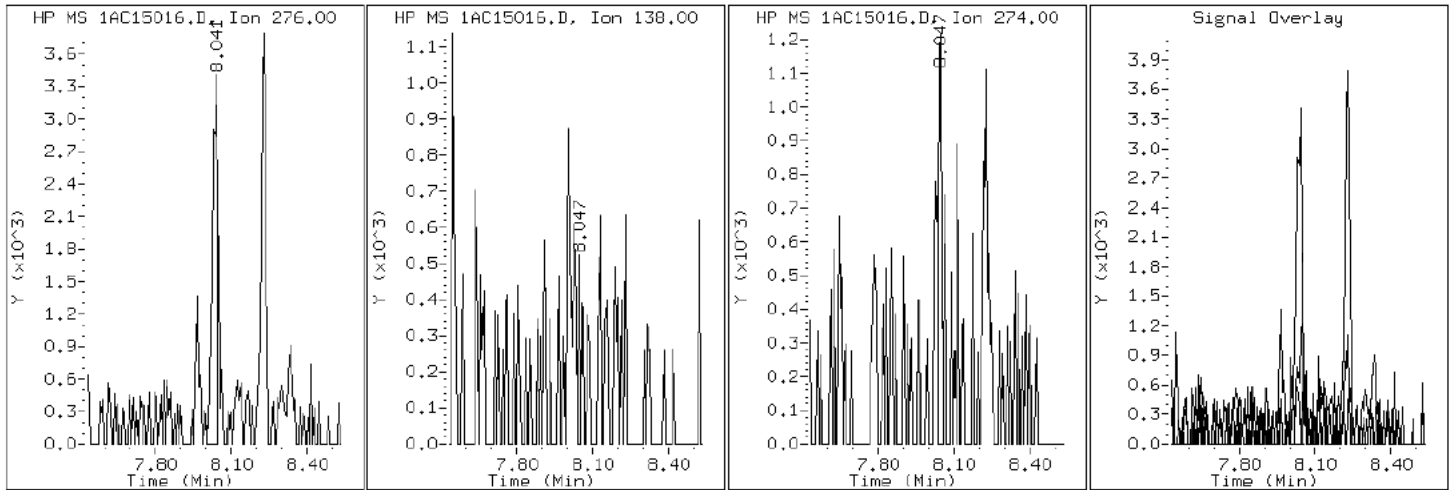
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

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



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

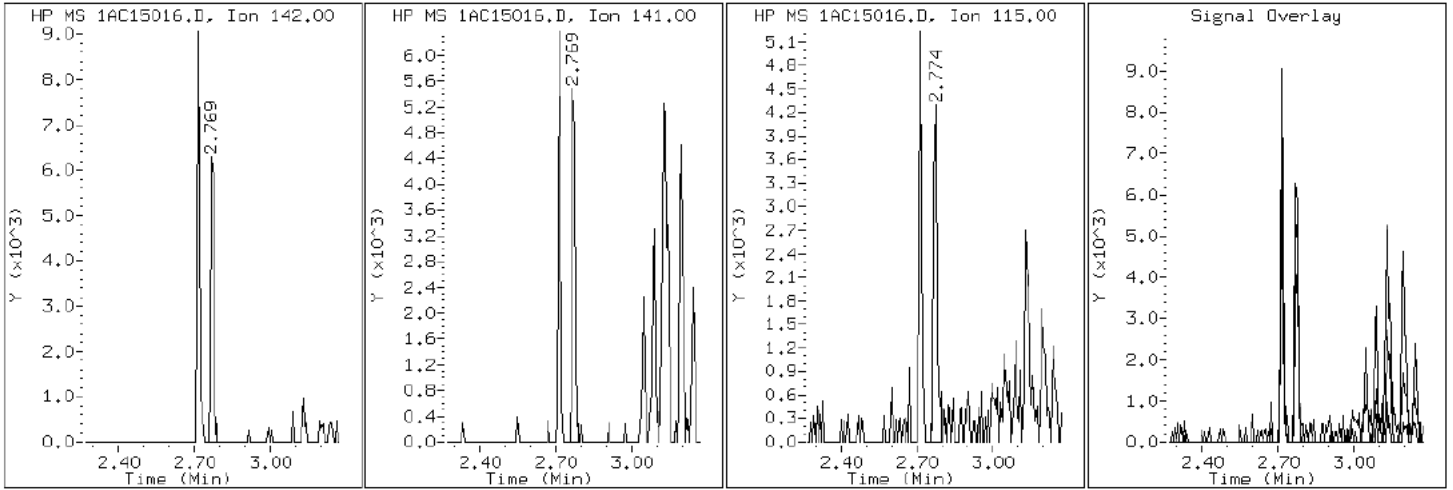
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

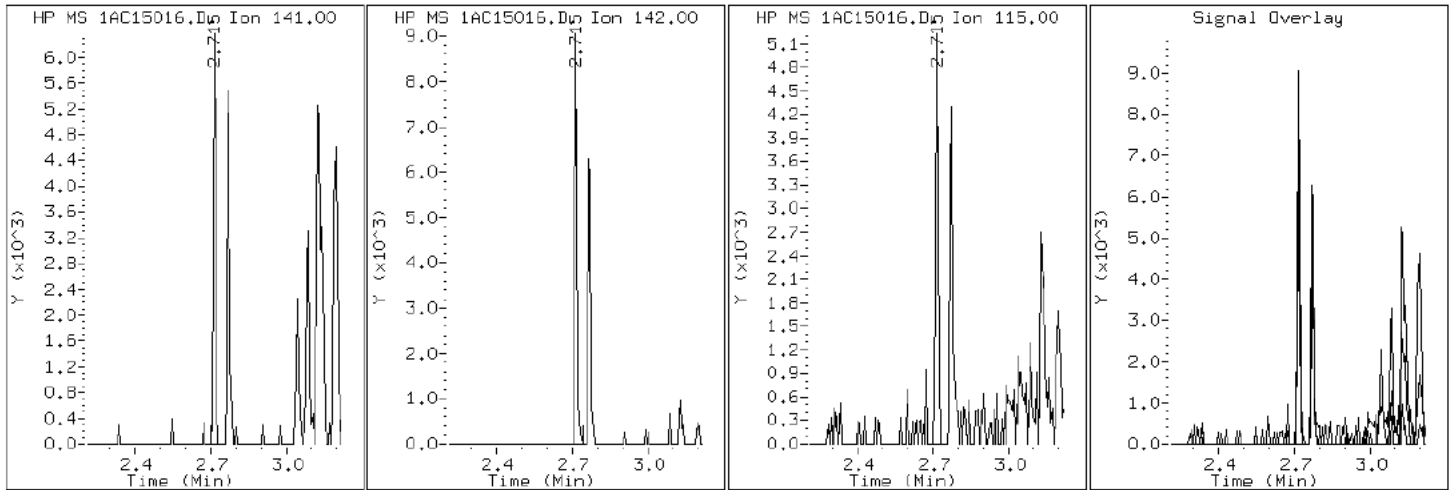
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

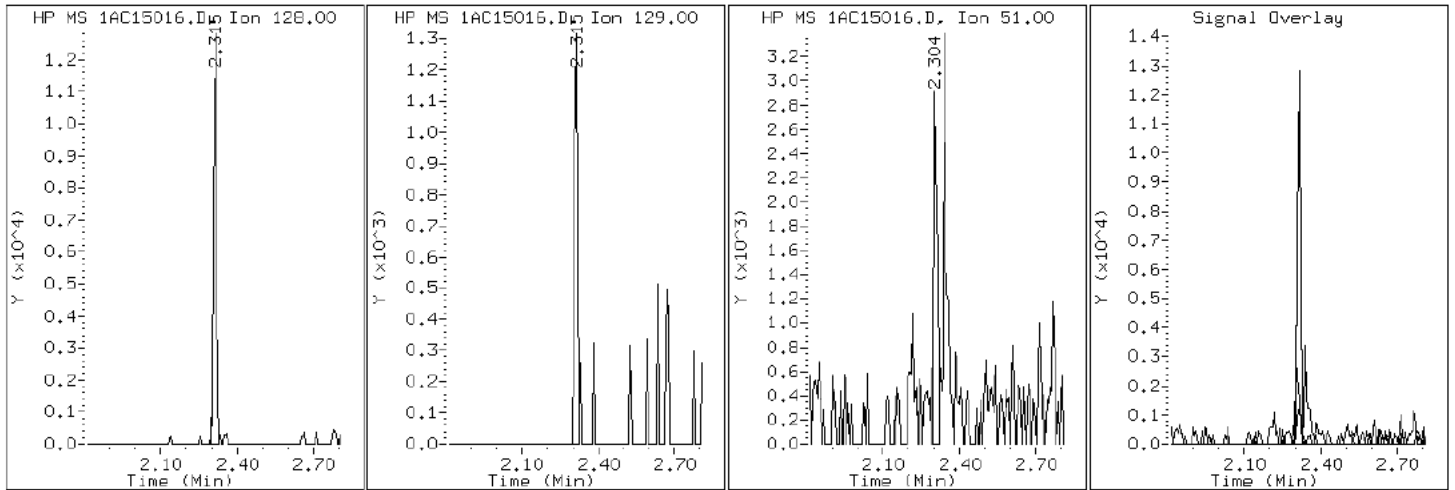
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

2 Naphthalene



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

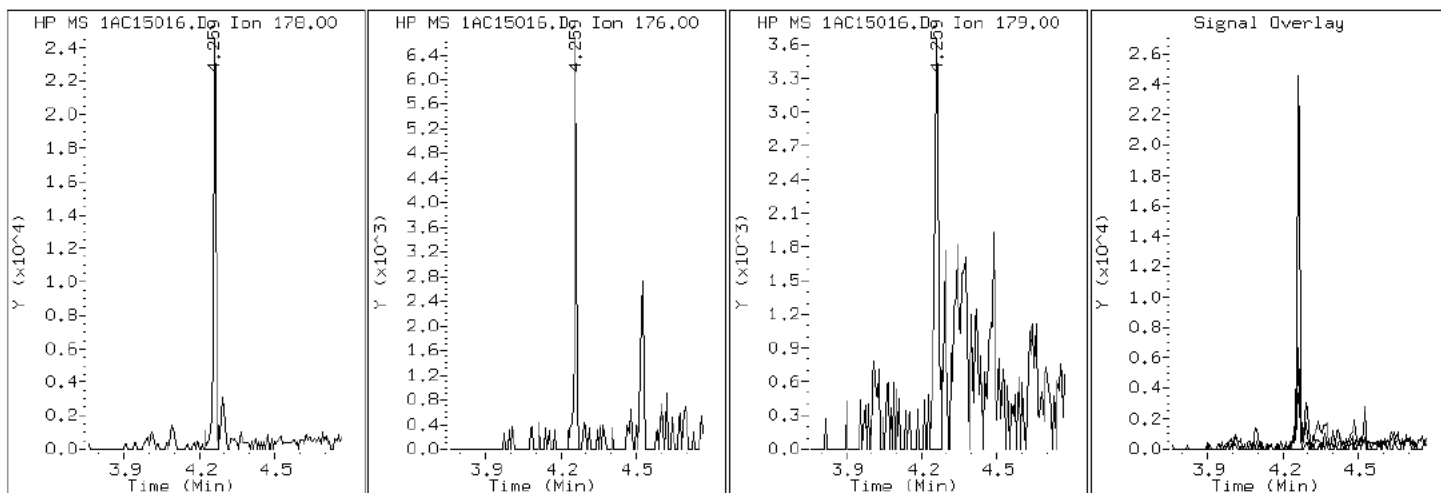
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15016.D

Date: 15-MAR-2013 16:33

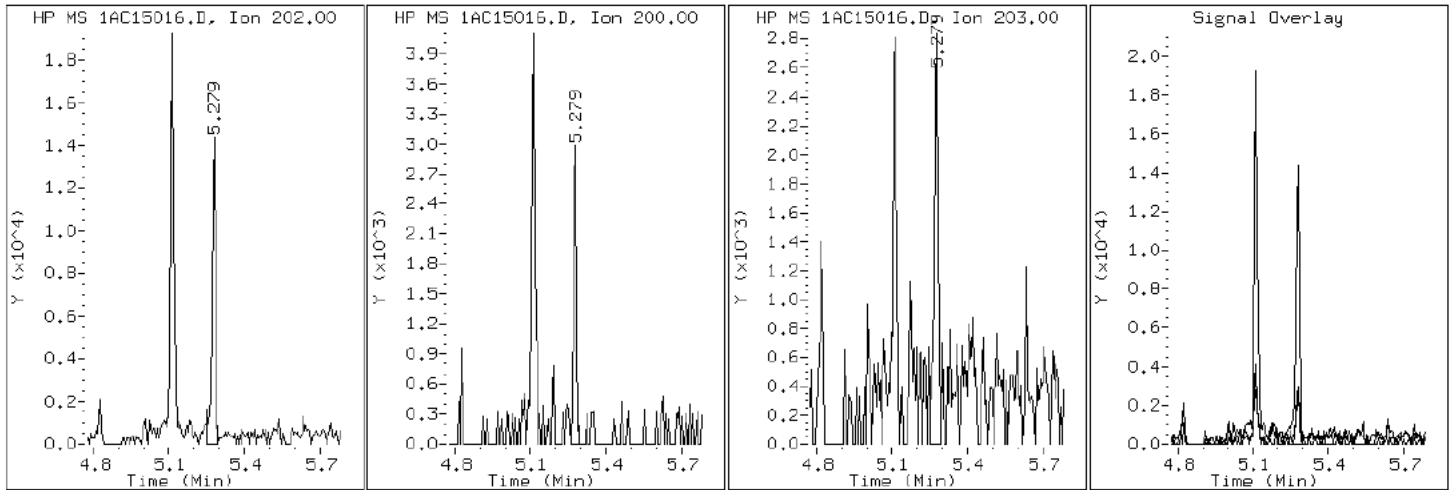
Client ID: CV0628A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-4-a

Operator: SCC

16 Pyrene

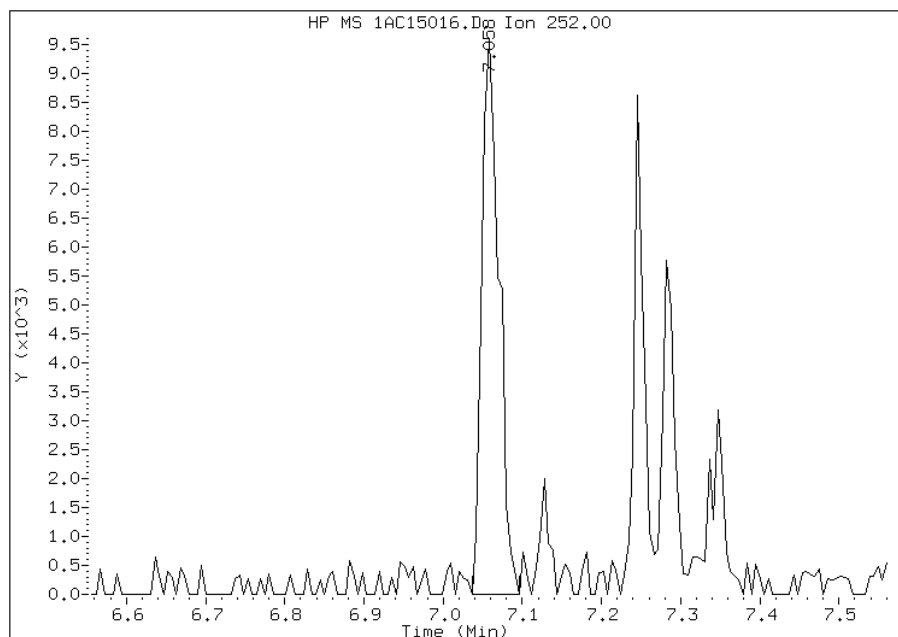


Manual Integration Report

Data File: 1AC15016.D
Inj. Date and Time: 15-MAR-2013 16:33
Instrument ID: BSMA5973.i
Client ID: CV0628A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

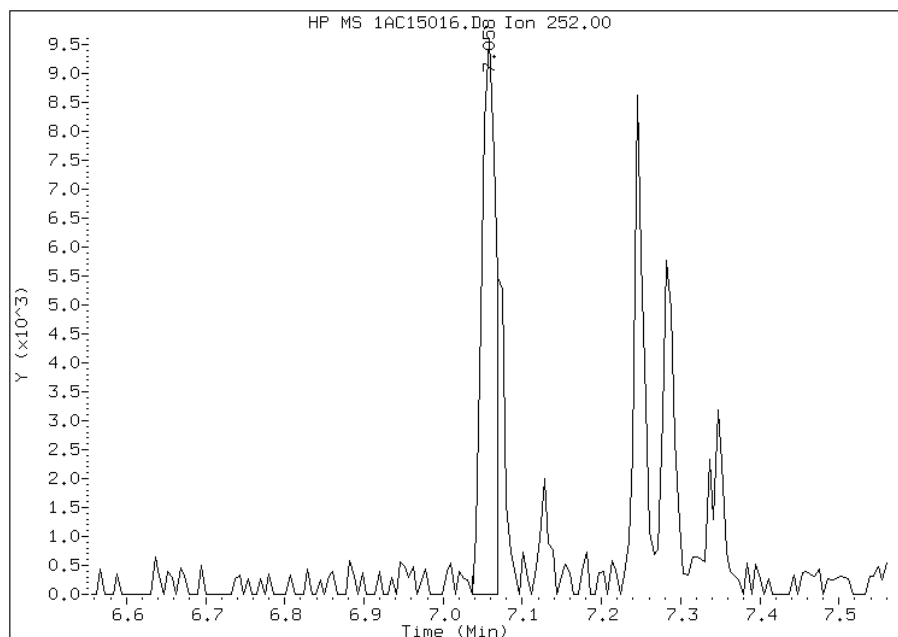
Processing Integration Results

RT: 7.06
Response: 14300
Amount: 3
Conc: 292



Manual Integration Results

RT: 7.06
Response: 11739
Amount: 3
Conc: 260



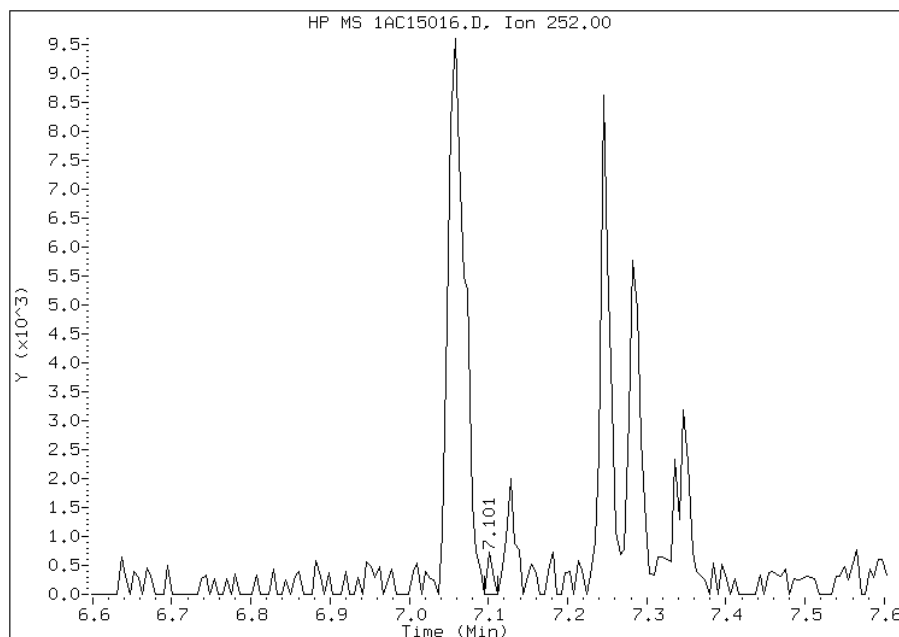
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:42
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15016.D
Inj. Date and Time: 15-MAR-2013 16:33
Instrument ID: BSMA5973.i
Client ID: CV0628A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

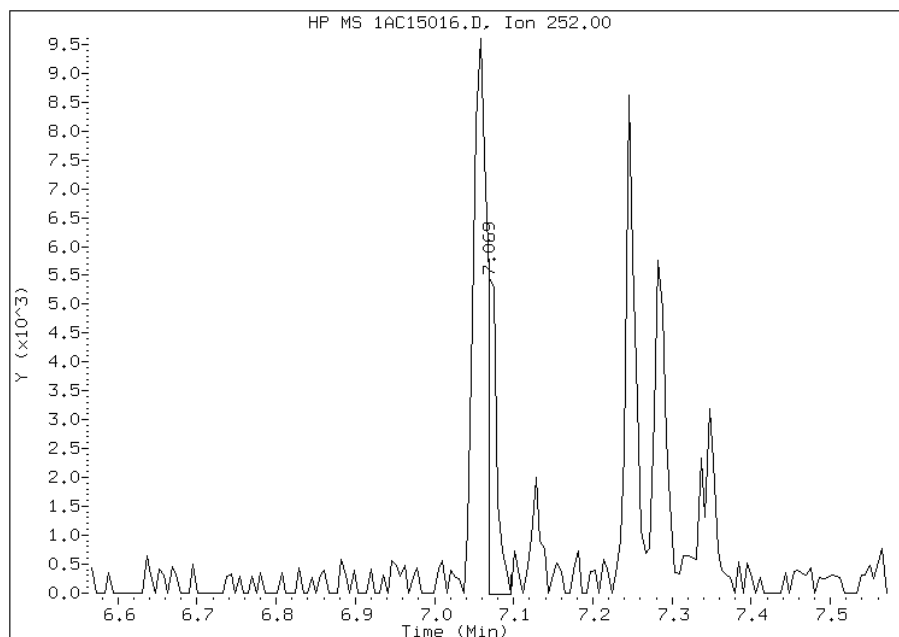
Processing Integration Results

RT: 7.10
Response: 321
Amount: 0
Conc: 4



Manual Integration Results

RT: 7.07
Response: 4368
Amount: 1
Conc: 55



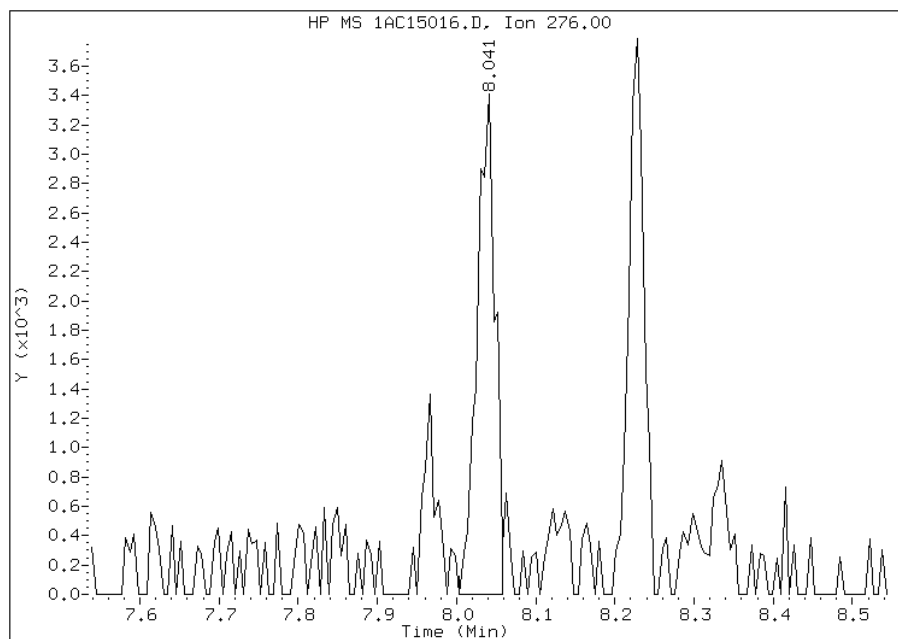
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15016.D
Inj. Date and Time: 15-MAR-2013 16:33
Instrument ID: BSMA5973.i
Client ID: CV0628A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

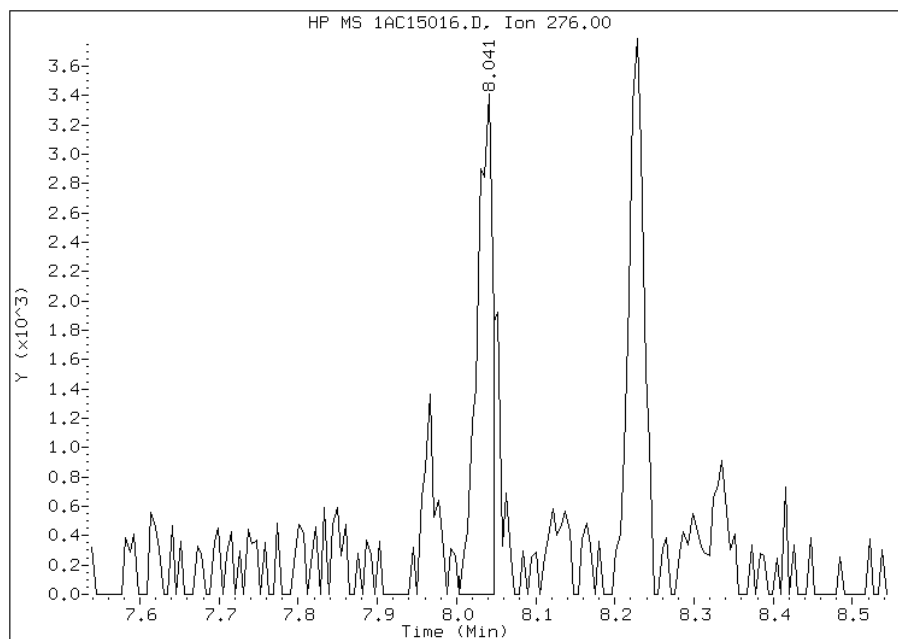
Processing Integration Results

RT: 8.04
Response: 5306
Amount: 1
Conc: 86



Manual Integration Results

RT: 8.04
Response: 4583
Amount: 1
Conc: 74



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:43
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0628B-CS-SP Lab Sample ID: 680-88118-5
 Matrix: Solid Lab File ID: 1AC15017.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 08:30
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.02(g) Date Analyzed: 03/15/2013 16:48
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 28.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	46	J	140	28
208-96-8	Acenaphthylene	30	J	55	6.9
120-12-7	Anthracene	24		12	5.8
56-55-3	Benzo[a]anthracene	98		11	5.4
50-32-8	Benzo[a]pyrene	76		14	7.2
205-99-2	Benzo[b]fluoranthene	220		17	8.5
191-24-2	Benzo[g,h,i]perylene	67		28	6.1
207-08-9	Benzo[k]fluoranthene	51		11	5.0
218-01-9	Chrysene	140		12	6.2
53-70-3	Dibenz(a,h)anthracene	24	J	28	5.7
206-44-0	Fluoranthene	120		28	5.5
86-73-7	Fluorene	25	J	28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	41		28	9.8
90-12-0	1-Methylnaphthalene	59		55	6.1
91-57-6	2-Methylnaphthalene	140		55	9.8
91-20-3	Naphthalene	58		55	6.1
85-01-8	Phenanthrene	120		11	5.4
129-00-0	Pyrene	150		28	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	69		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15017.D
 Lab Smp Id: 680-88118-A-5-A Client Smp ID: CV0628B-CS-SP
 Inj Date : 15-MAR-2013 16:48
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-5-a
 Misc Info : 680-88118-A-5-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 17
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	27.957	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.303	2.303	(1.000)	397138	40.0000	
* 6 Acenaphthene-d10	164		3.324	3.324	(1.000)	282077	40.0000	
* 10 Phenanthrene-d10	188		4.248	4.248	(1.000)	431918	40.0000	
\$ 14 o-Terphenyl	230		4.526	4.526	(1.065)	39052	6.91013	638.5935
* 18 Chrysene-d12	240		6.246	6.246	(1.000)	309750	40.0000	
* 23 Perylene-d12	264		7.341	7.330	(1.000)	330715	40.0000	
2 Naphthalene	128		2.314	2.314	(1.005)	5773	0.62919	58.1464
3 2-Methylnaphthalene	141		2.715	2.715	(1.179)	3470	1.49737	138.3782
4 1-Methylnaphthalene	142		2.773	2.773	(1.204)	3385	0.64159	59.2920
5 Acenaphthylene	152		3.238	3.238	(0.974)	1626	0.32691	30.2108
7 Acenaphthene	154		3.340	3.345	(1.005)	450	0.49526	45.7689(Q)
9 Fluorene	166		3.649	3.649	(1.098)	470	0.27371	25.2947(Q)
11 Phenanthrene	178		4.264	4.264	(1.004)	13771	1.25799	116.2558
12 Anthracene	178		4.296	4.296	(1.011)	2783	0.26219	24.2301

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.456	4.456 (1.049)		1383	0.14866	13.7380(Q)
15 Fluoranthene	202	5.113	5.113 (1.204)		14184	1.31080	121.1363
16 Pyrene	202	5.279	5.279 (0.845)		14017	1.57827	145.8543
17 Benzo(a)anthracene	228	6.240	6.235 (0.999)		8008	1.05989	97.9485
19 Chrysene	228	6.262	6.262 (1.003)		12493	1.55722	143.9088
20 Benzo(b)fluoranthene	252	7.058	7.052 (0.961)		10639	2.37017	219.0369(M)
21 Benzo(k)fluoranthene	252	7.068	7.074 (0.963)		4918	0.55130	50.9477(QM)
22 Benzo(a)pyrene	252	7.287	7.282 (0.993)		6410	0.82590	76.3250
24 Indeno(1,2,3-cd)pyrene	276	8.035	8.035 (1.095)		3096	0.44210	40.8561(M)
25 Dibenzo(a,h)anthracene	278	8.041	8.045 (1.095)		1826	0.26309	24.3131(H)
26 Benzo(g,h,i)perylene	276	8.233	8.222 (1.122)		5147	0.73015	67.4765(M)

QC Flag Legend

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

Data File: 1AC15017.D

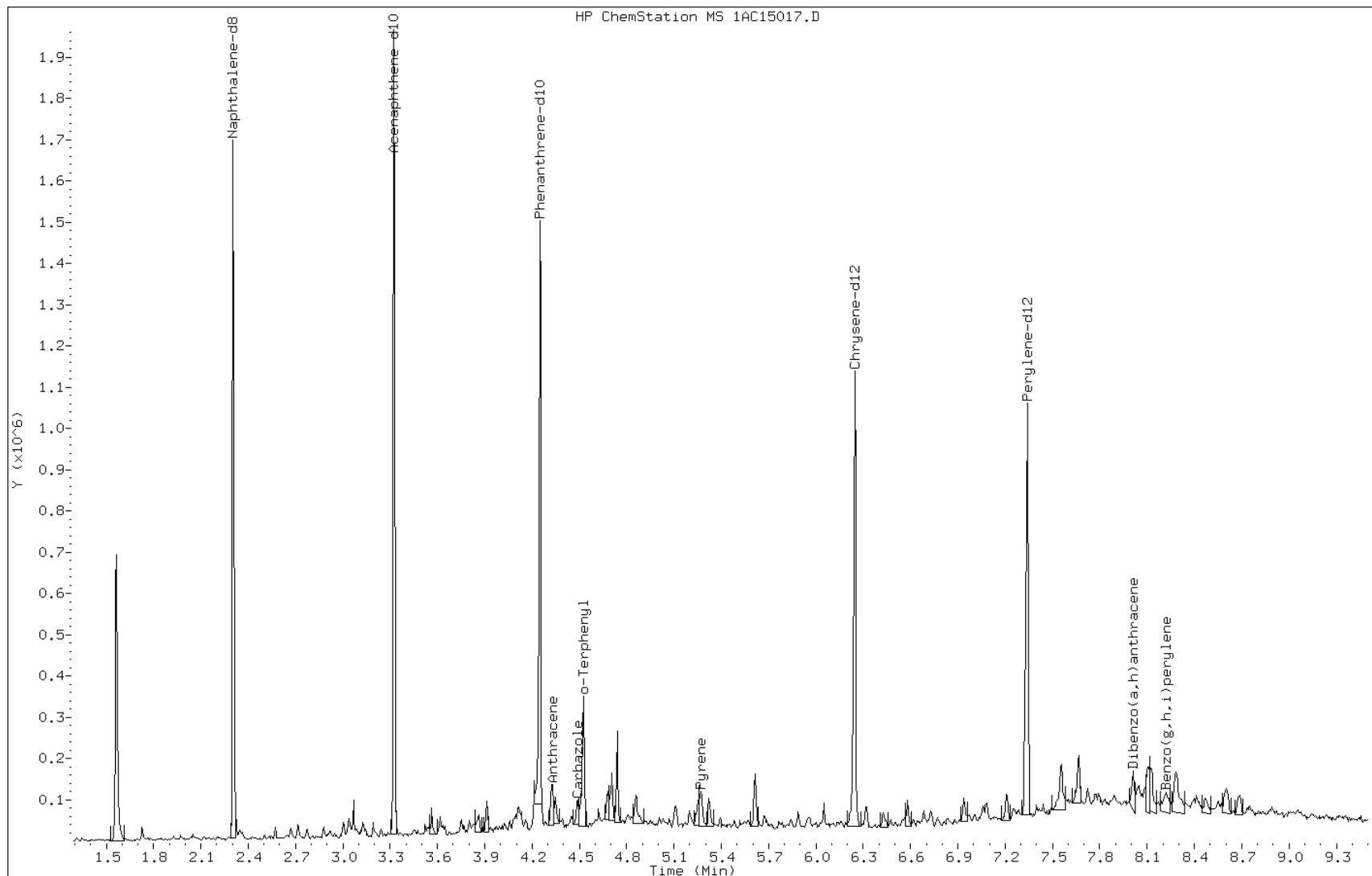
Date: 15-MAR-2013 16:48

Client ID: CV0628B-CS-SP

Sample Info: 680-88118-a-5-a

Instrument: BSMA5973.i

Operator: SCC



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

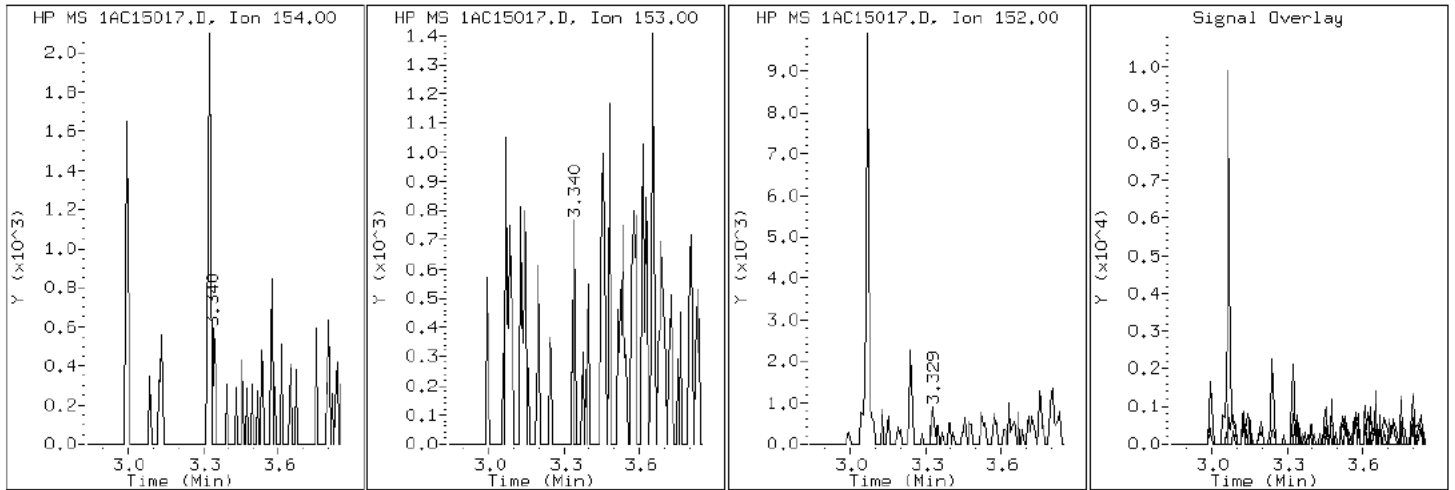
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

7 Acenaphthene



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

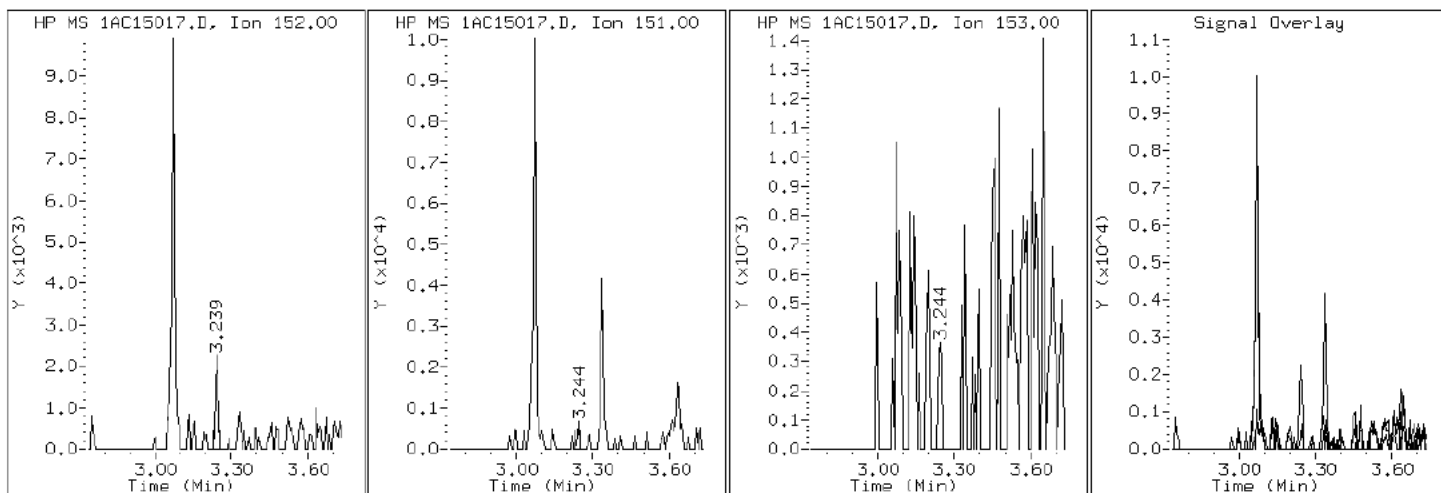
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

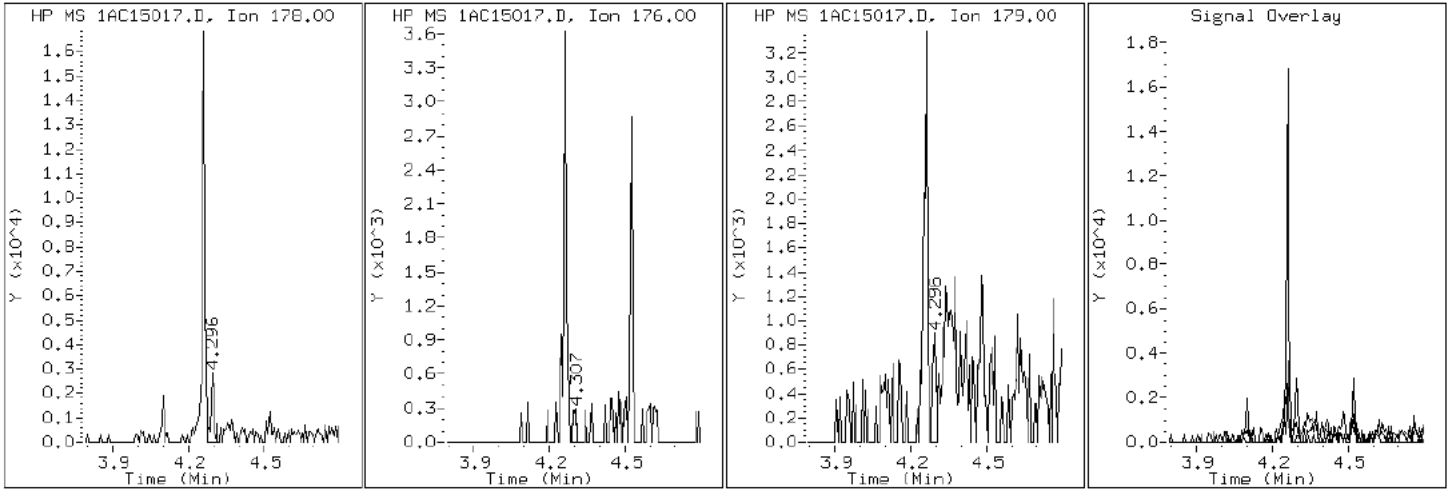
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

12 Anthracene



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

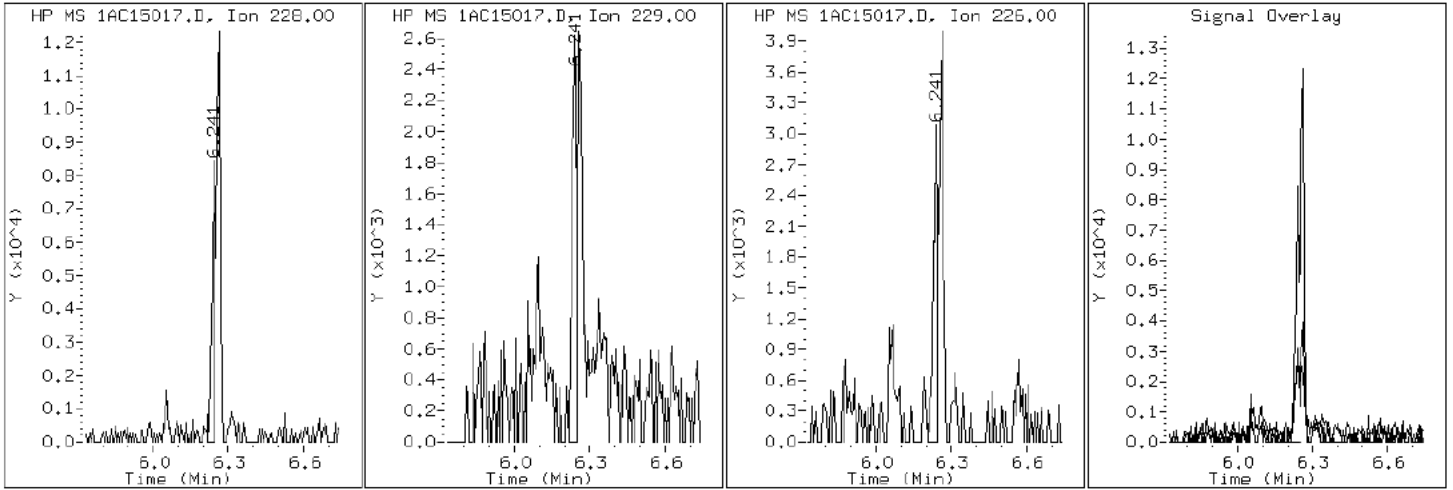
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

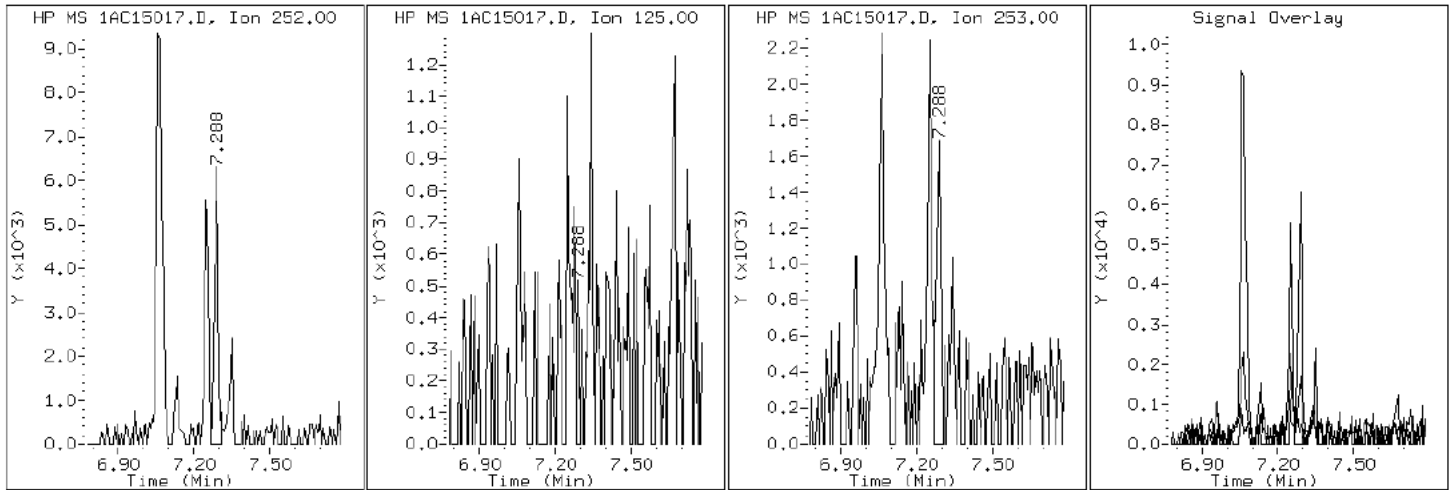
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

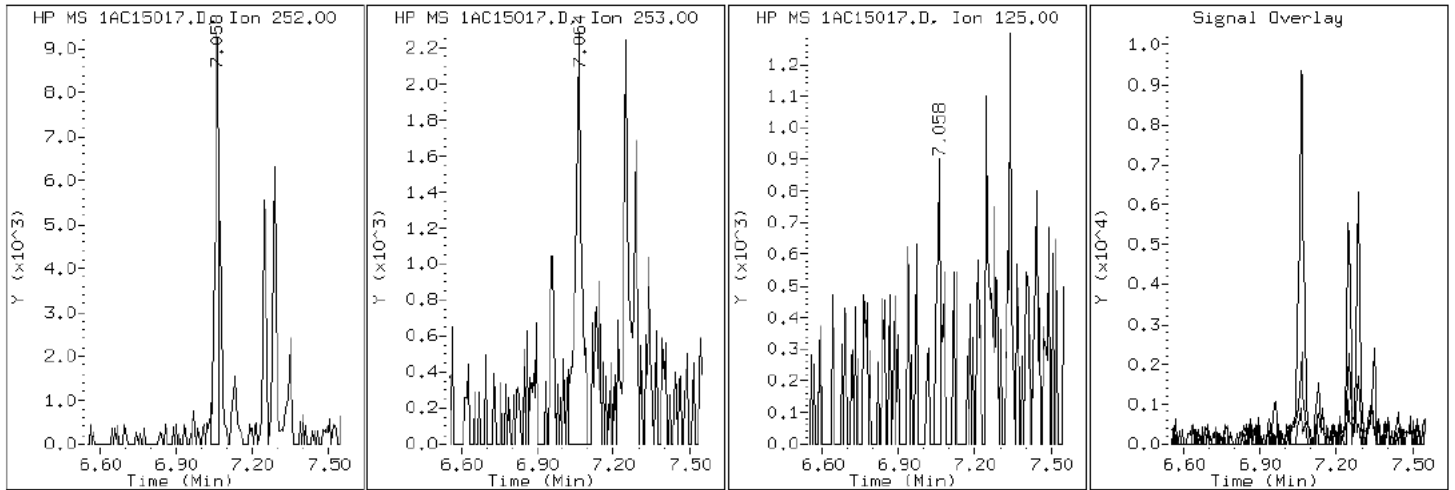
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

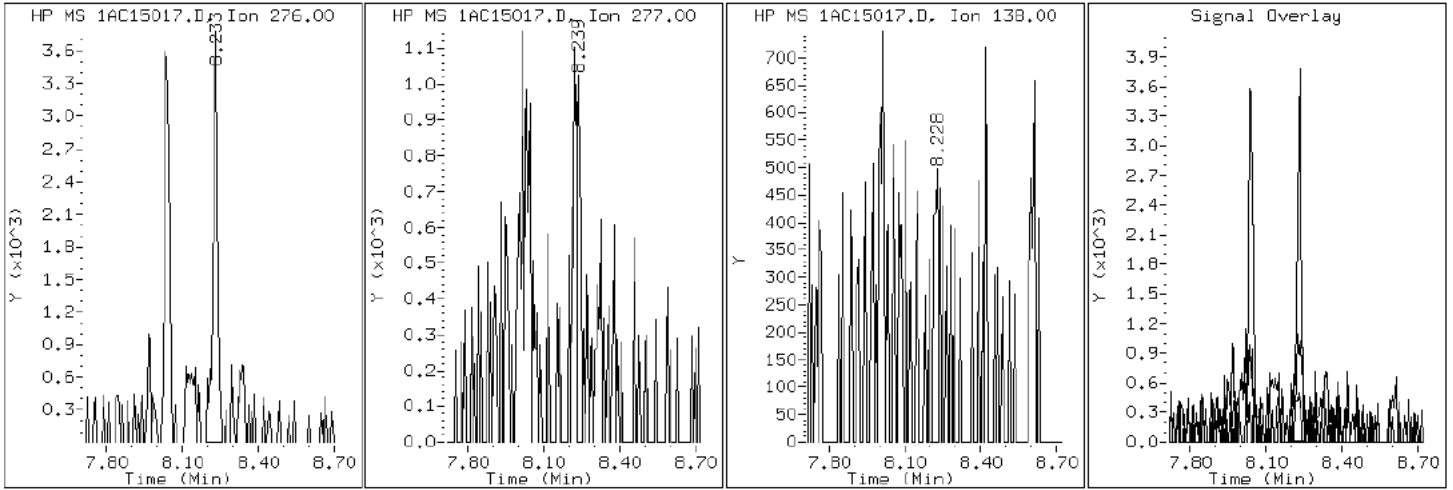
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

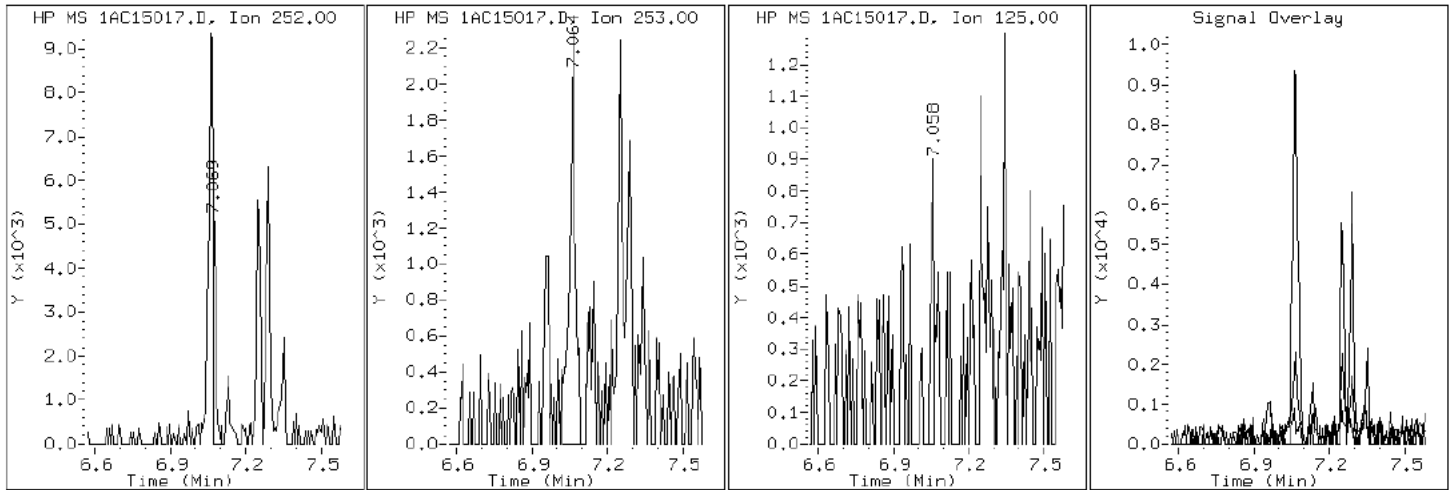
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

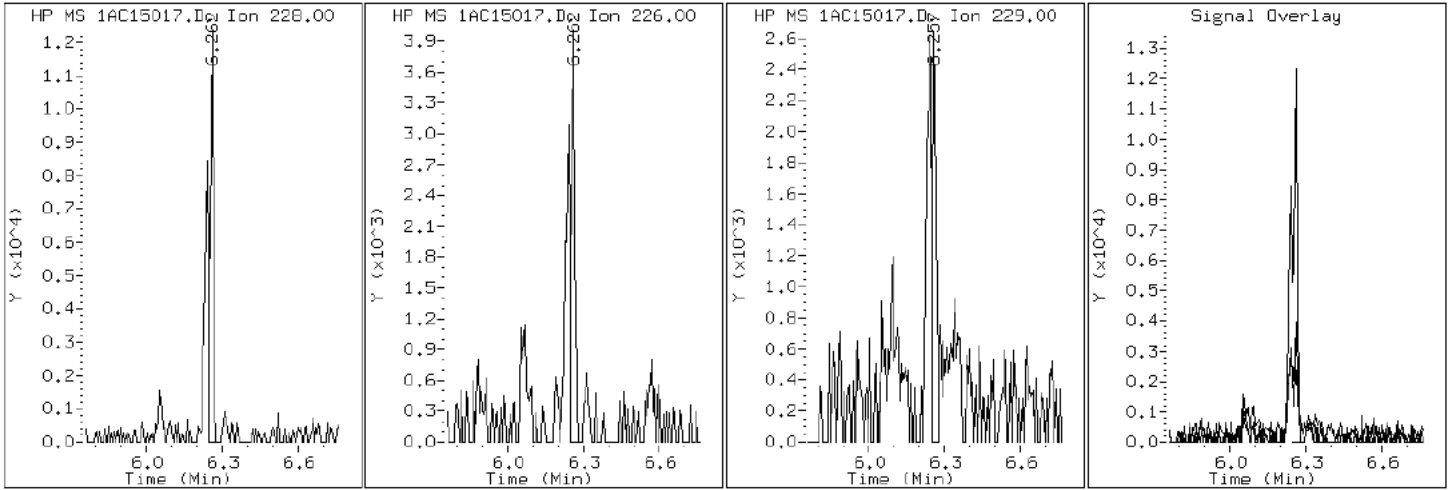
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

19 Chrysene



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

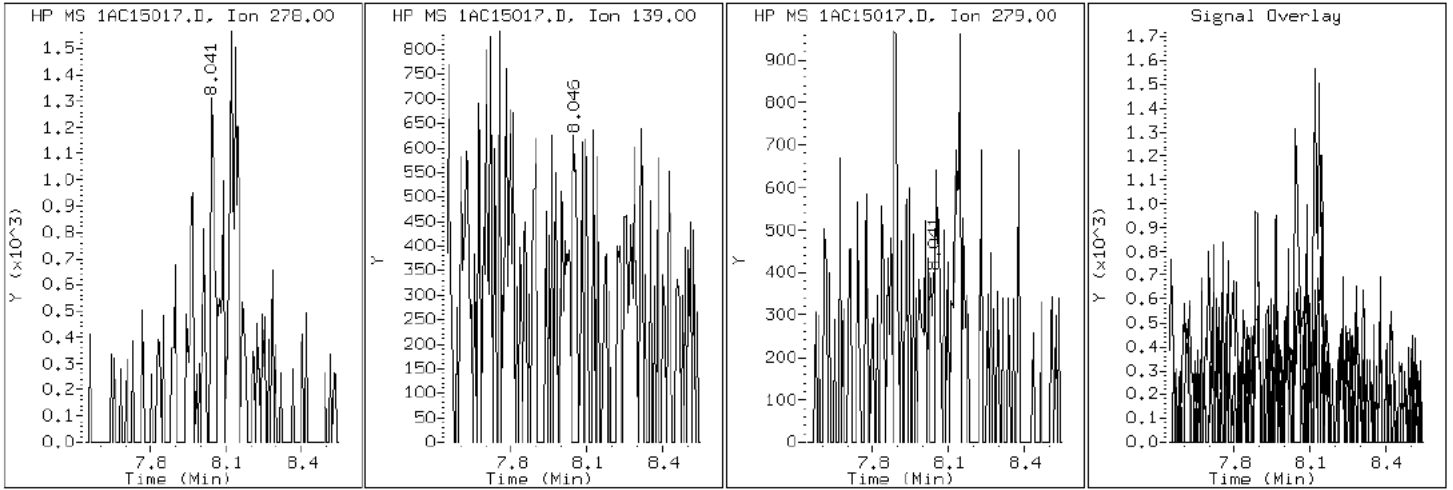
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

25 Dibenzo (a,h)anthracene



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

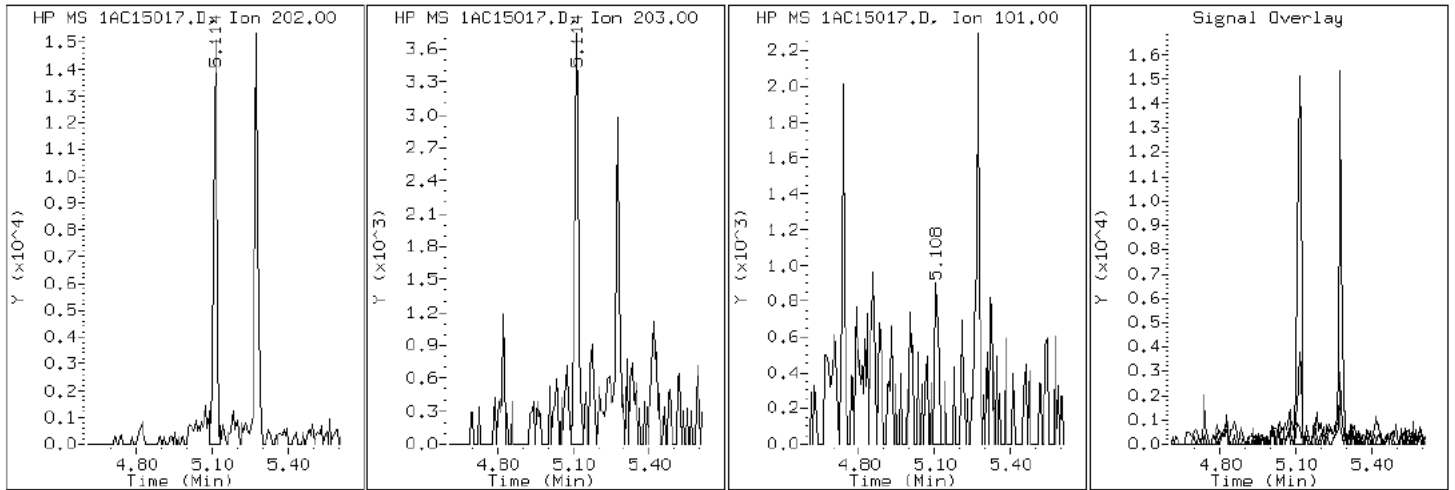
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

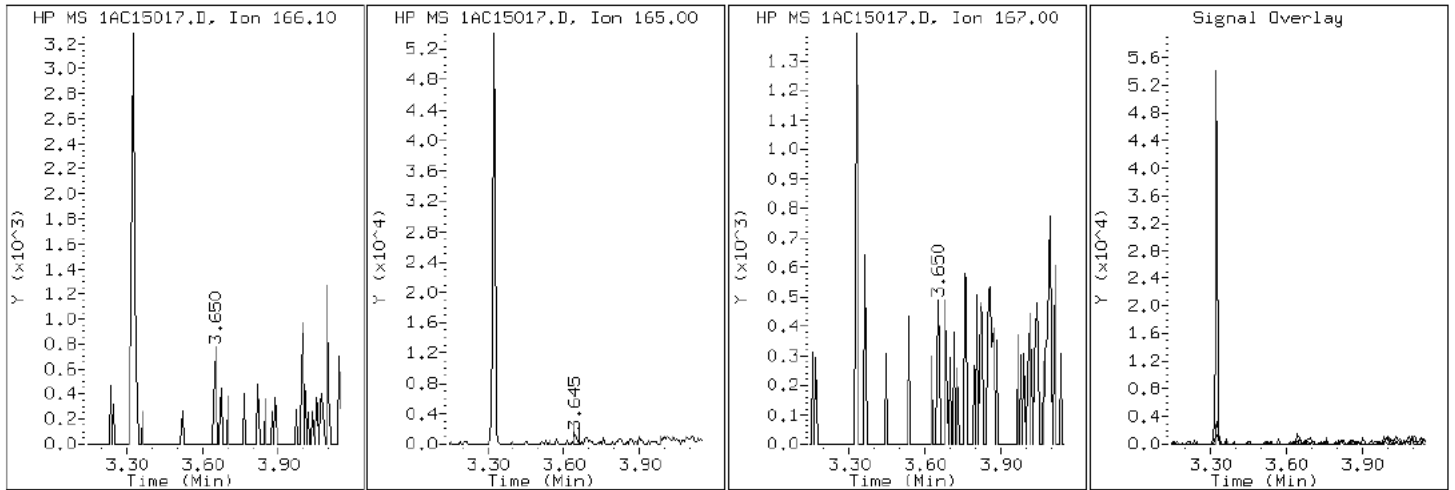
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

9 Fluorene



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

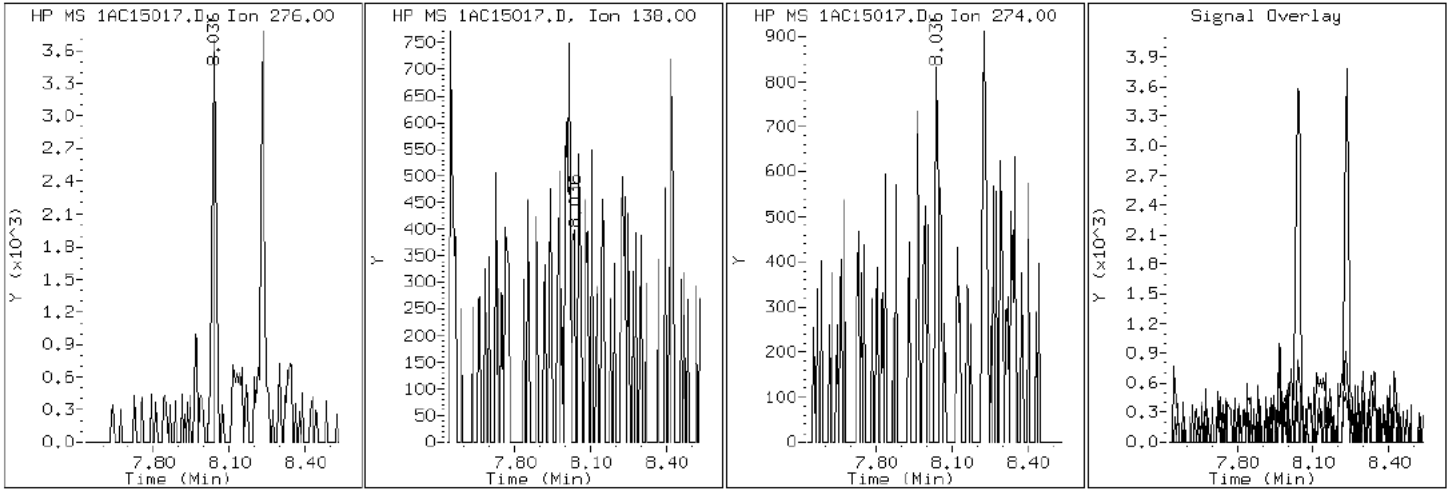
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

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



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

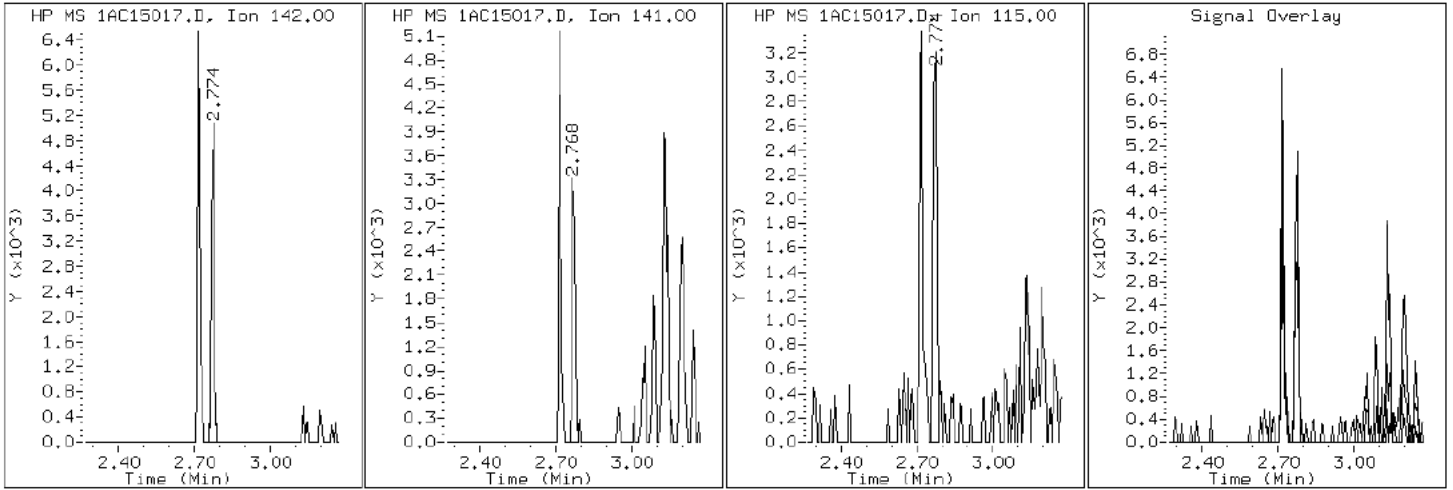
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

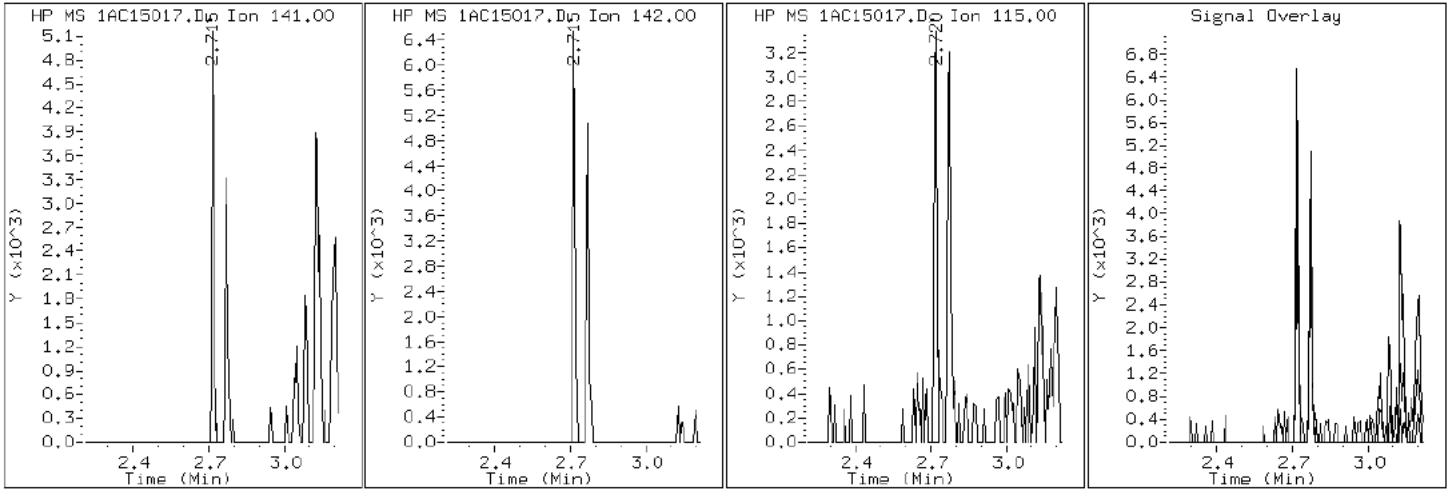
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

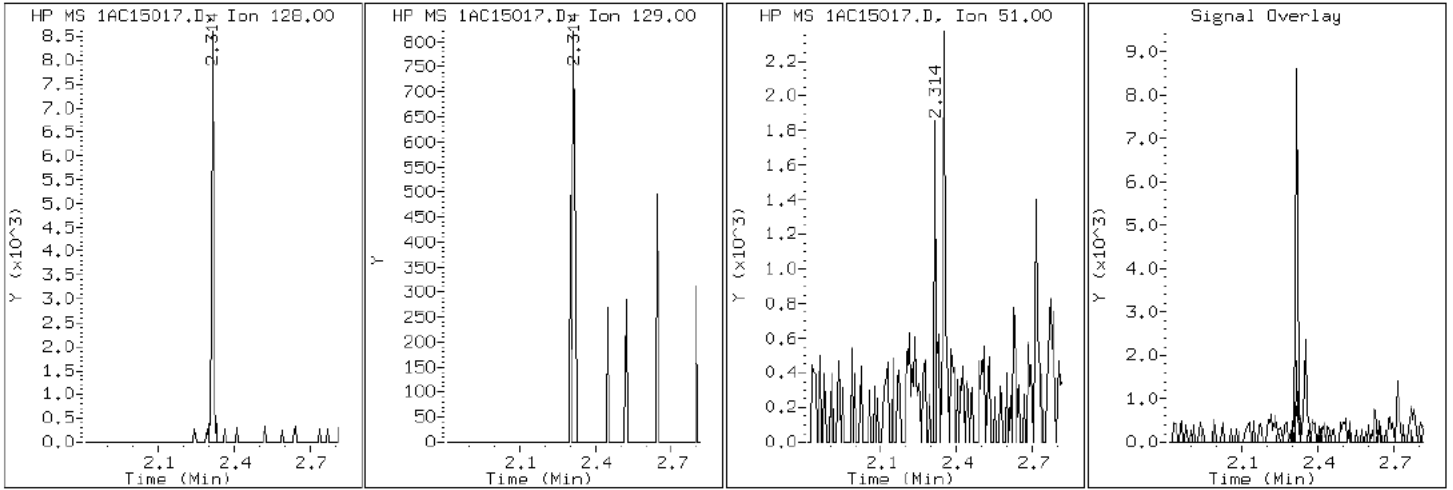
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

2 Naphthalene



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

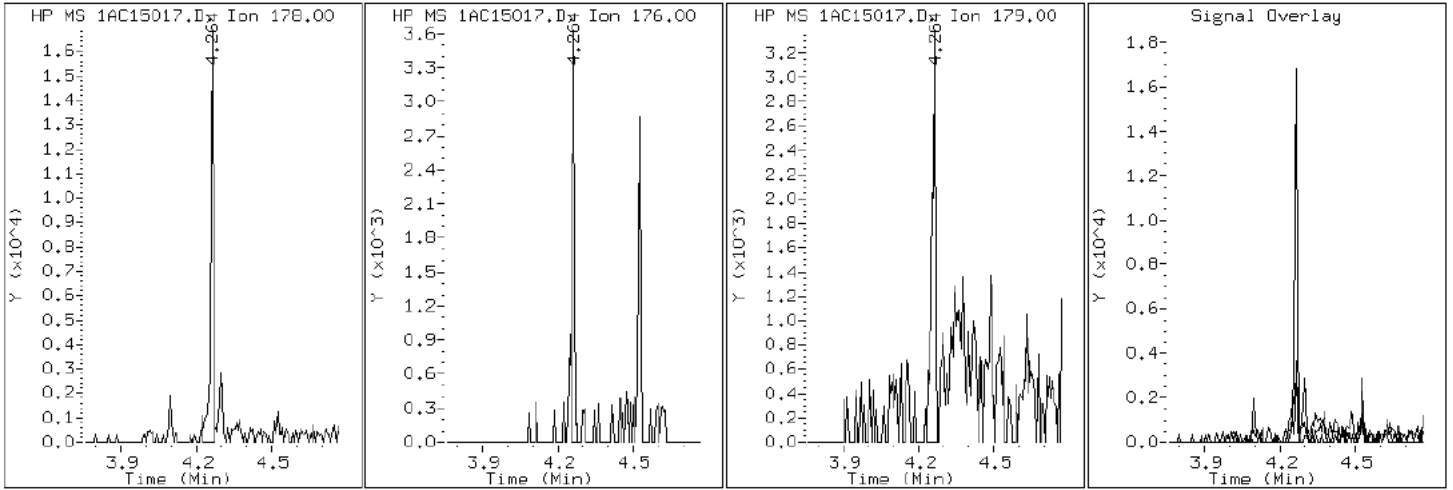
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15017.D

Date: 15-MAR-2013 16:48

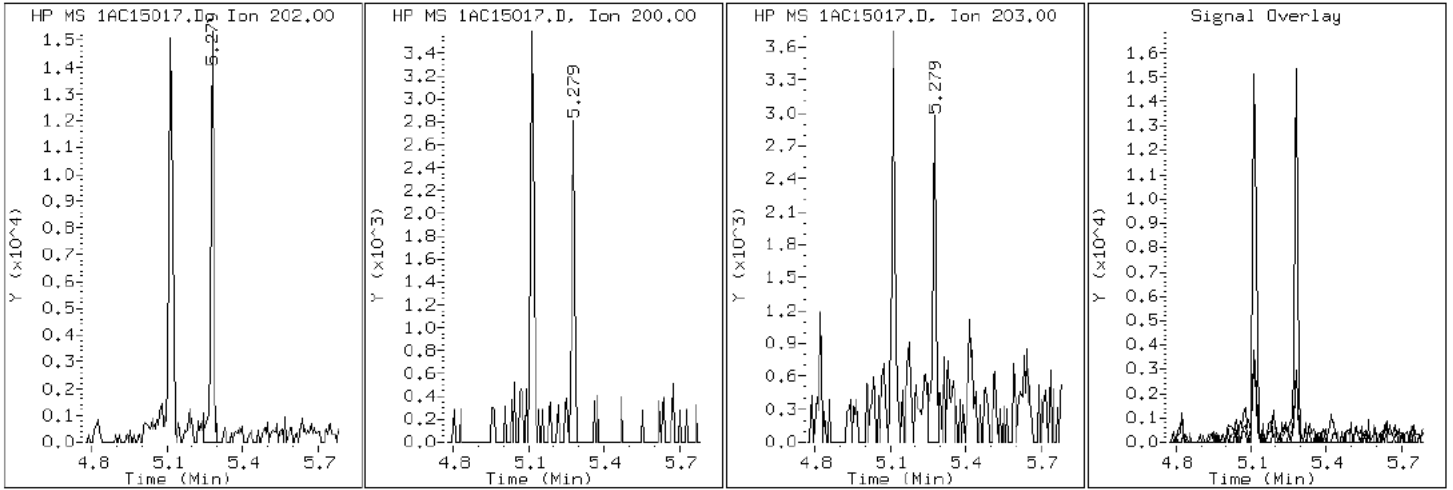
Client ID: CV0628B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-5-a

Operator: SCC

16 Pyrene

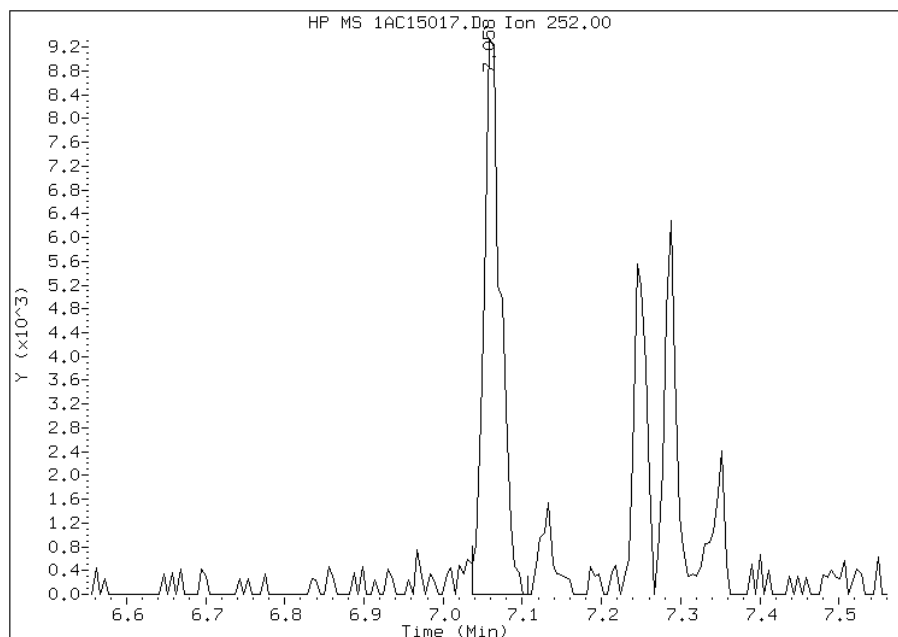


Manual Integration Report

Data File: 1AC15017.D
Inj. Date and Time: 15-MAR-2013 16:48
Instrument ID: BSMA5973.i
Client ID: CV0628B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

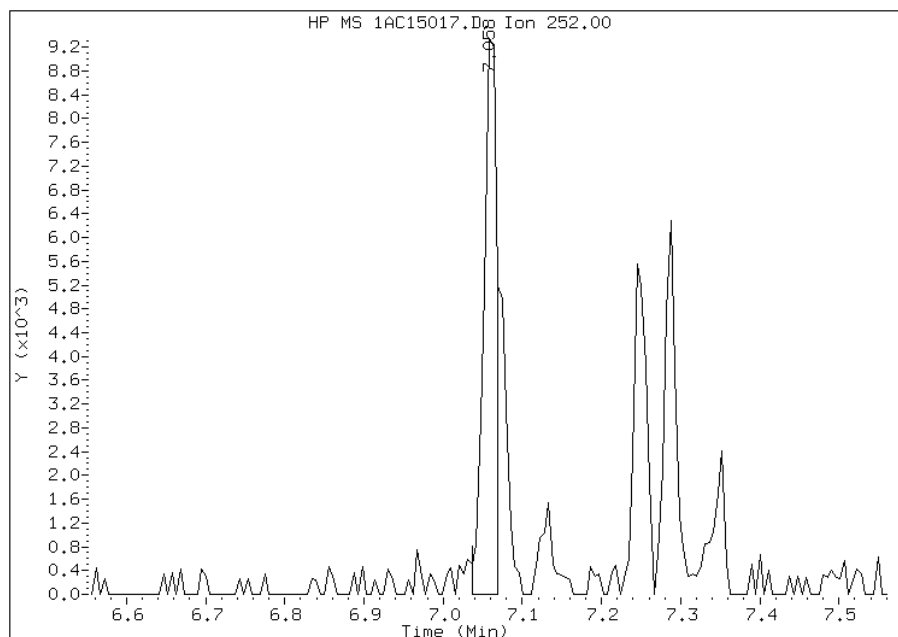
Processing Integration Results

RT: 7.06
Response: 13878
Amount: 3
Conc: 252



Manual Integration Results

RT: 7.06
Response: 10639
Amount: 2
Conc: 219



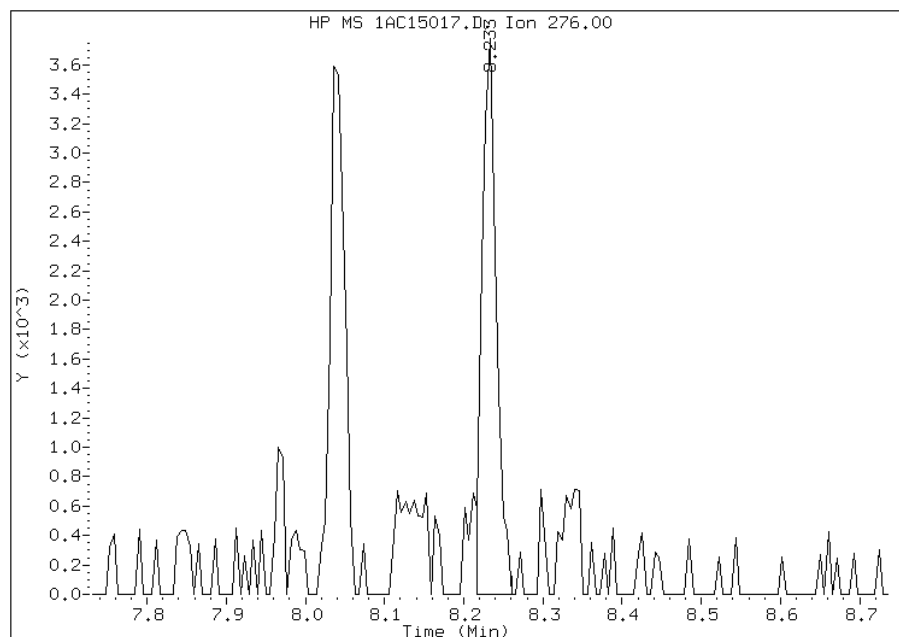
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:46
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15017.D
Inj. Date and Time: 15-MAR-2013 16:48
Instrument ID: BSMA5973.i
Client ID: CV0628B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/20/2013

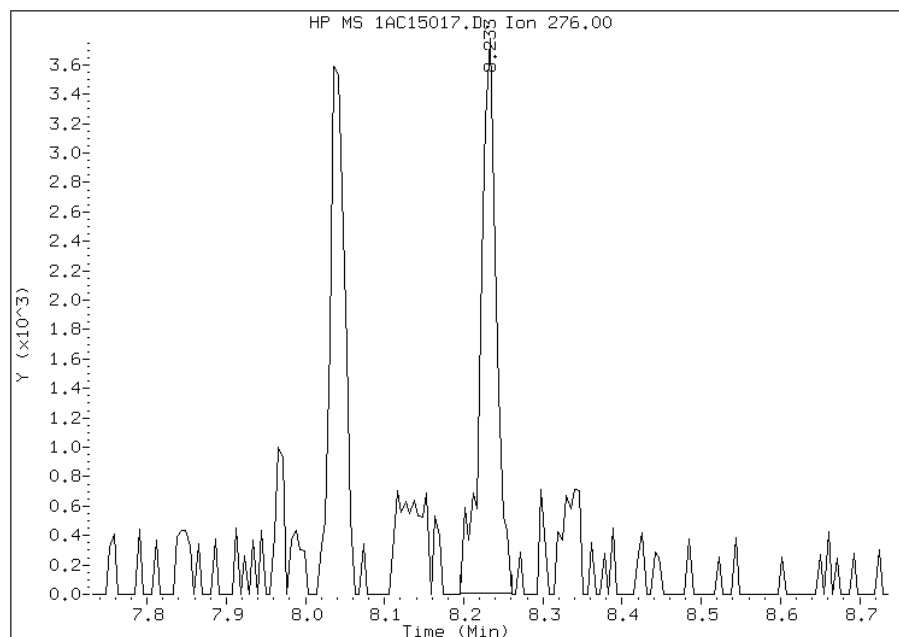
Processing Integration Results

RT: 8.23
Response: 4648
Amount: 1
Conc: 61



Manual Integration Results

RT: 8.23
Response: 5147
Amount: 1
Conc: 67



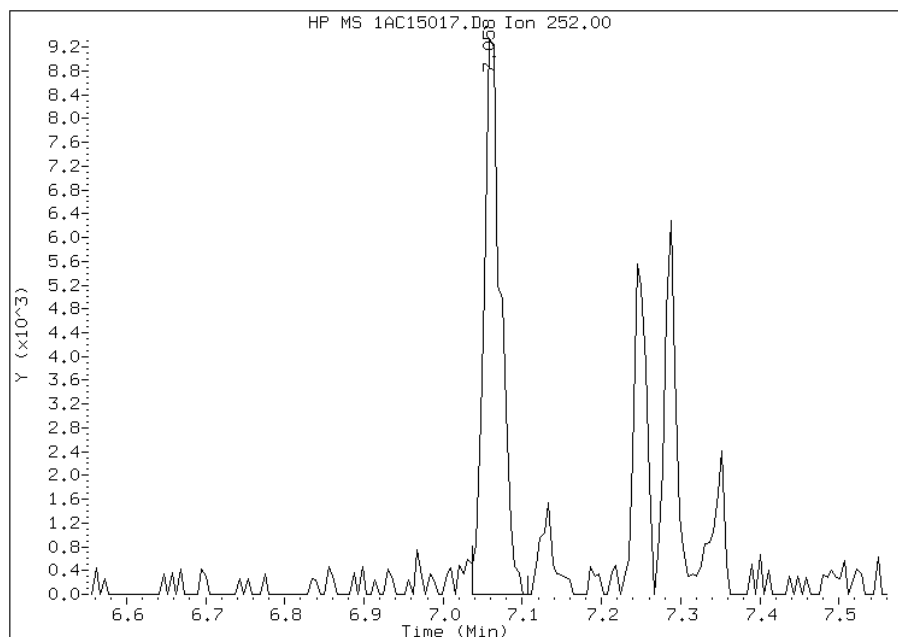
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15017.D
Inj. Date and Time: 15-MAR-2013 16:48
Instrument ID: BSMA5973.i
Client ID: CV0628B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

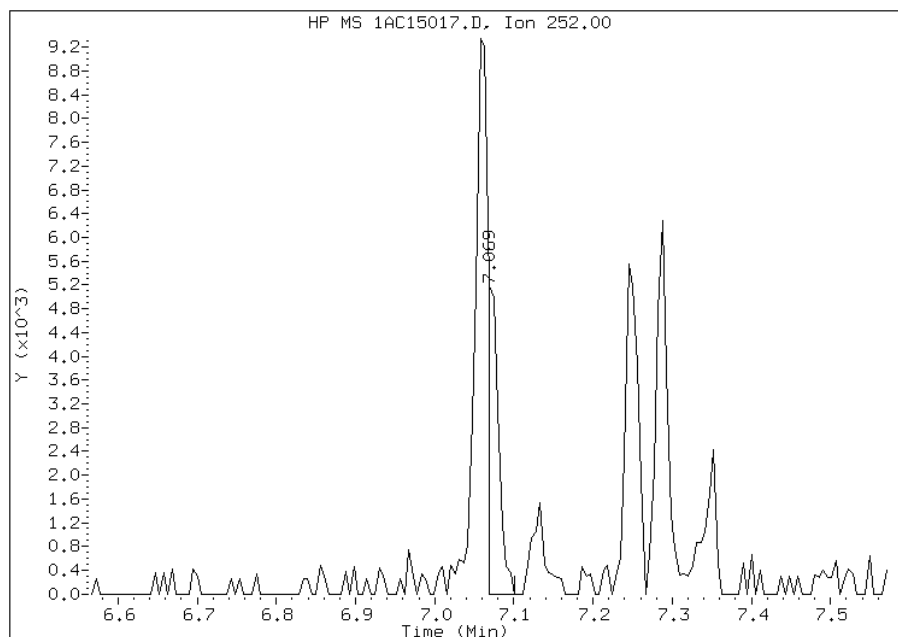
Processing Integration Results

RT: 7.06
Response: 13878
Amount: 2
Conc: 144



Manual Integration Results

RT: 7.07
Response: 4918
Amount: 1
Conc: 51



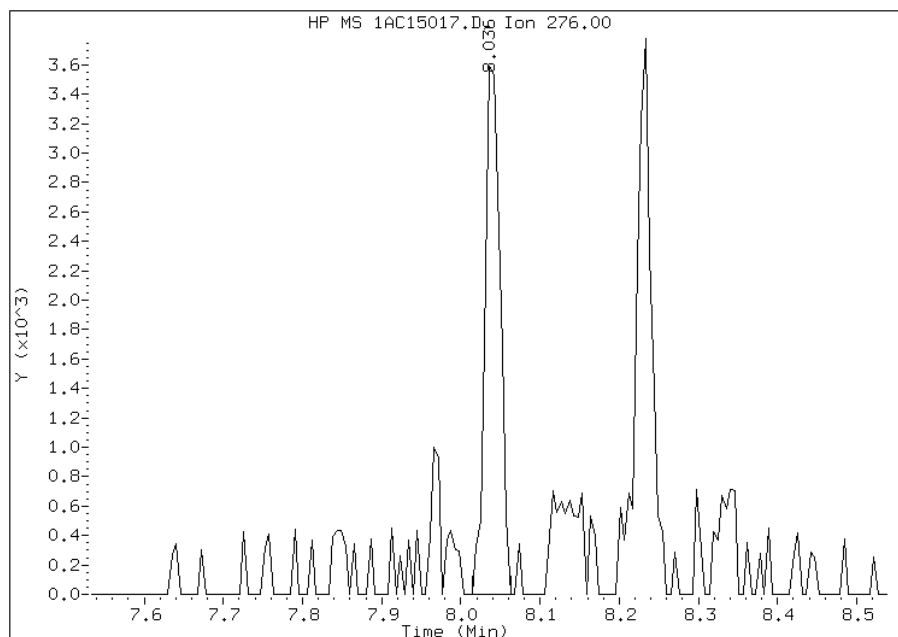
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15017.D
Inj. Date and Time: 15-MAR-2013 16:48
Instrument ID: BSMA5973.i
Client ID: CV0628B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

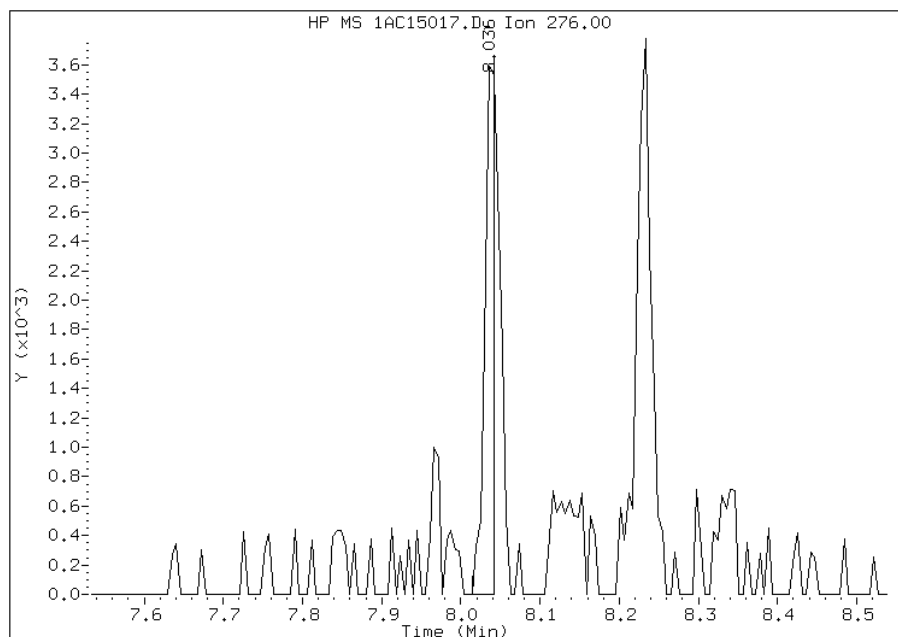
Processing Integration Results

RT: 8.04
Response: 4674
Amount: 1
Conc: 62



Manual Integration Results

RT: 8.04
Response: 3096
Amount: 0
Conc: 41



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0628C-CS-SP Lab Sample ID: 680-88118-6
 Matrix: Solid Lab File ID: 1AC15018.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 08:35
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.23(g) Date Analyzed: 03/15/2013 17:03
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 26.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	25	J	54	6.7
120-12-7	Anthracene	19		11	5.7
56-55-3	Benzo[a]anthracene	100		11	5.2
50-32-8	Benzo[a]pyrene	53		14	7.0
205-99-2	Benzo[b]fluoranthene	200		16	8.2
191-24-2	Benzo[g,h,i]perylene	60		27	5.9
207-08-9	Benzo[k]fluoranthene	36		11	4.8
218-01-9	Chrysene	85		12	6.1
53-70-3	Dibenz(a,h)anthracene	27		27	5.5
206-44-0	Fluoranthene	80		27	5.4
86-73-7	Fluorene	27	U	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	45		27	9.6
90-12-0	1-Methylnaphthalene	31	J	54	5.9
91-57-6	2-Methylnaphthalene	120		54	9.6
91-20-3	Naphthalene	53	J	54	5.9
85-01-8	Phenanthrene	63		11	5.2
129-00-0	Pyrene	120		27	5.0

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\1A031513.b\1AC15018.D
 Lab Smp Id: 680-88118-A-6-A Client Smp ID: CV0628C-CS-SP
 Inj Date : 15-MAR-2013 17:03
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-6-a
 Misc Info : 680-88118-A-6-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 18
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.230	Weight Extracted
M	26.820	% 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	CONCENTRATIONS				ON-COLUMN (ug/ml)	FINAL (ug/Kg)
			MASS	RT	EXP RT	REL RT		
* 1 Naphthalene-d8	136		2.304	2.303	(1.000)	434557	40.0000	
* 6 Acenaphthene-d10	164		3.324	3.324	(1.000)	324995	40.0000	
* 10 Phenanthrene-d10	188		4.254	4.248	(1.000)	467100	40.0000	
\$ 14 o-Terphenyl	230		4.526	4.526	(1.064)	37577	6.17635	554.1646
* 18 Chrysene-d12	240		6.246	6.246	(1.000)	263659	40.0000	
* 23 Perylene-d12	264		7.341	7.330	(1.000)	293972	40.0000	
2 Naphthalene	128		2.314	2.314	(1.005)	5907	0.58836	52.7900(Q)
3 2-Methylnaphthalene	141		2.720	2.715	(1.181)	2975	1.36392	122.3759
4 1-Methylnaphthalene	142		2.774	2.773	(1.204)	2024	0.35059	31.4566
5 Acenaphthylene	152		3.244	3.238	(0.976)	1330	0.27966	25.0917
11 Phenanthrene	178		4.264	4.264	(1.002)	8366	0.70668	63.4056
12 Anthracene	178		4.296	4.296	(1.010)	2438	0.21239	19.0562
15 Fluoranthene	202		5.114	5.113	(1.202)	10475	0.89512	80.3137
16 Pyrene	202		5.279	5.279	(0.845)	9995	1.32214	118.6273

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	6.246	6.235 (1.000)		7526	1.15270	103.4242
19 Chrysene	228	6.262	6.262 (1.003)		6492	0.95067	85.2976
20 Benzo(b)fluoranthene	252	7.058	7.052 (0.961)		7999	2.19018	196.5109(M)
21 Benzo(k)fluoranthene	252	7.069	7.074 (0.963)		3192	0.40254	36.1174(M)
22 Benzo(a)pyrene	252	7.288	7.282 (0.993)		4092	0.59314	53.2183
24 Indeno(1,2,3-cd)pyrene	276	8.036	8.035 (1.095)		3129	0.50266	45.1002(M)
25 Dibenzo(a,h)anthracene	278	8.046	8.045 (1.096)		1846	0.29921	26.8466(H)
26 Benzo(g,h,i)perylene	276	8.228	8.222 (1.121)		4189	0.66853	59.9827

QC Flag Legend

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

Data File: 1AC15018.D

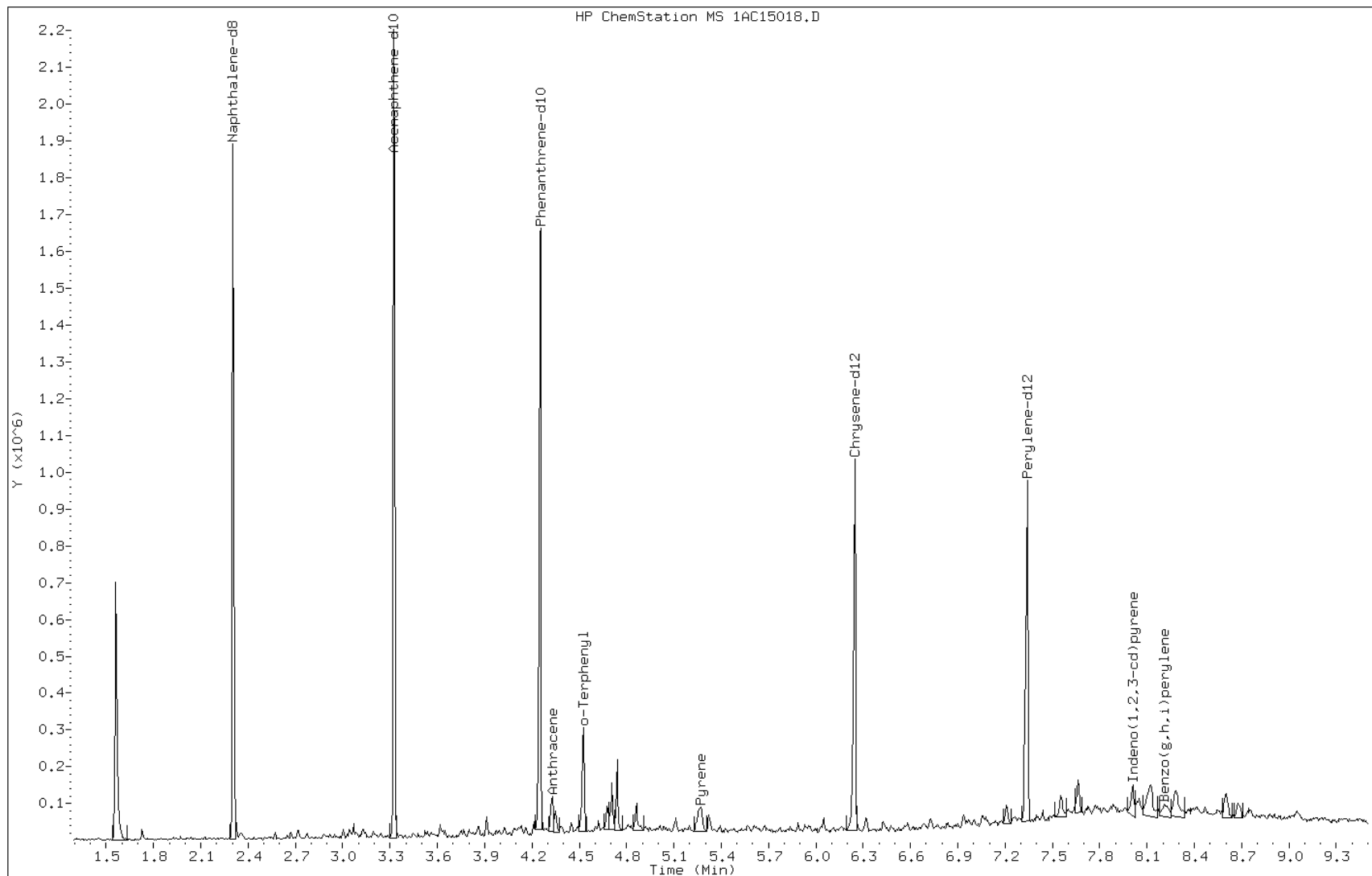
Date: 15-MAR-2013 17:03

Client ID: CV0628C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-6-a

Operator: SCC



Data File: 1AC15018.D

Date: 15-MAR-2013 17:03

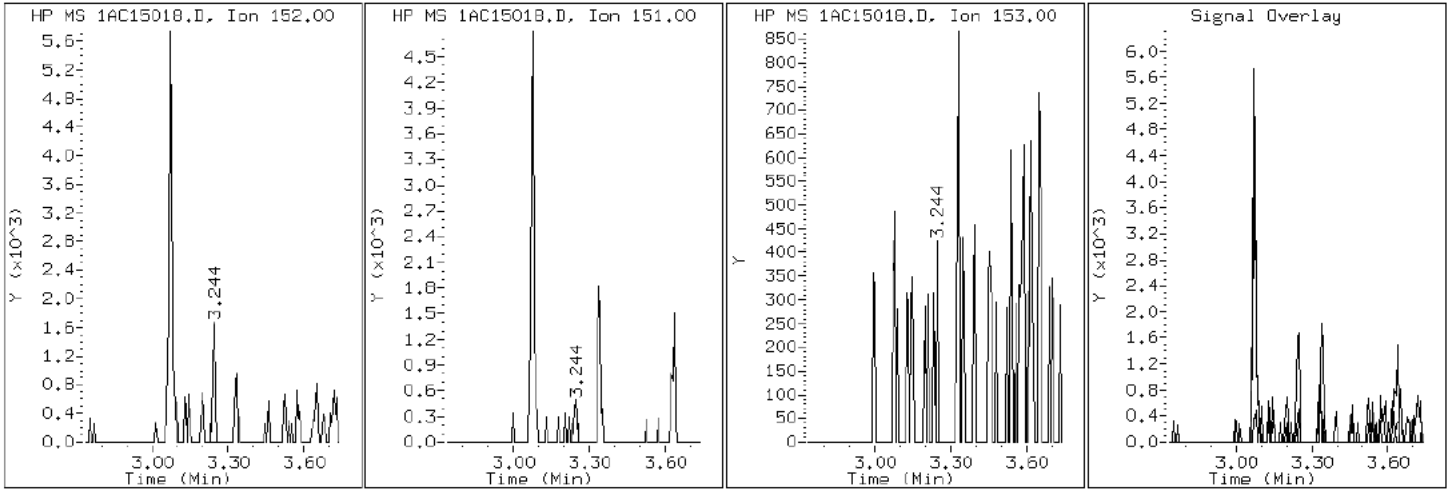
Client ID: CV0628C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-6-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15018.D

Date: 15-MAR-2013 17:03

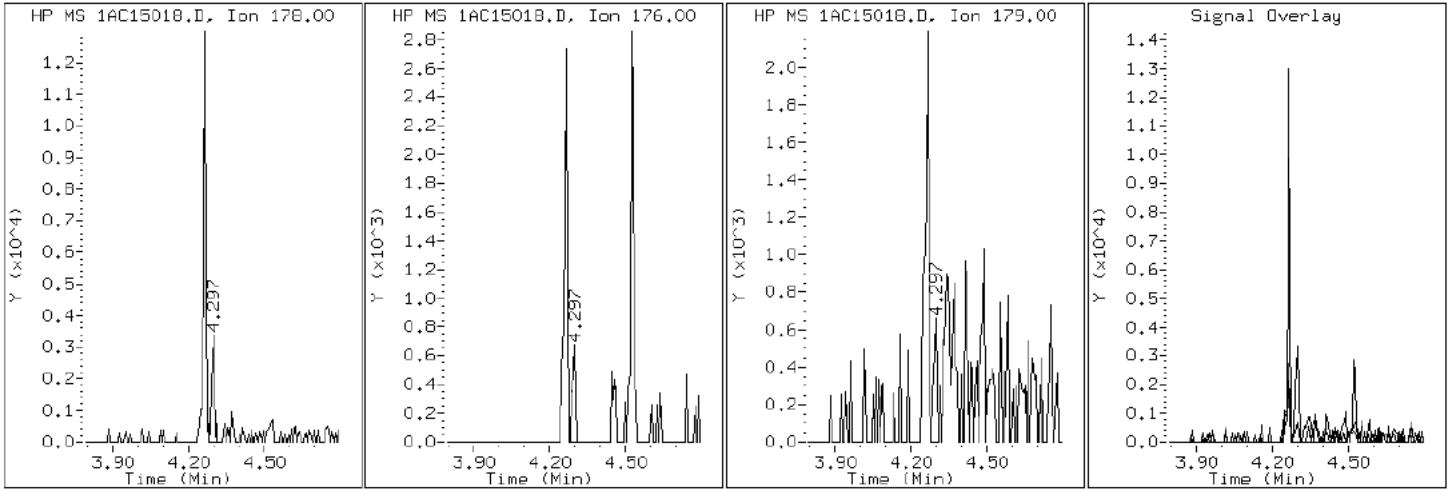
Client ID: CV0628C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-6-a

Operator: SCC

12 Anthracene



Data File: 1AC15018.D

Date: 15-MAR-2013 17:03

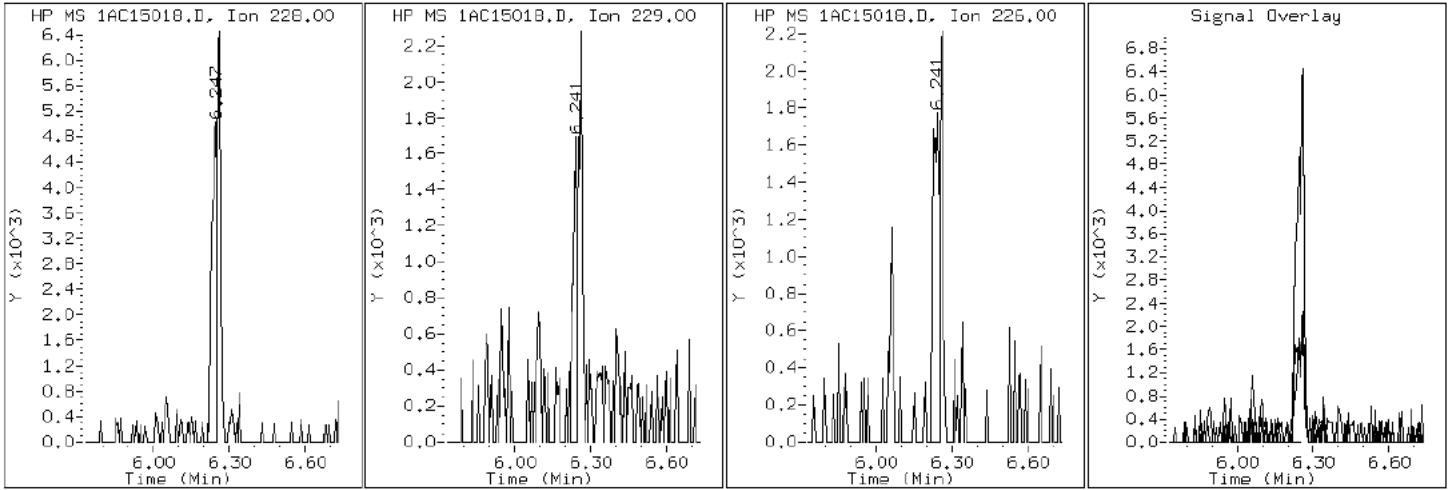
Client ID: CV0628C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-6-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15018.D

Date: 15-MAR-2013 17:03

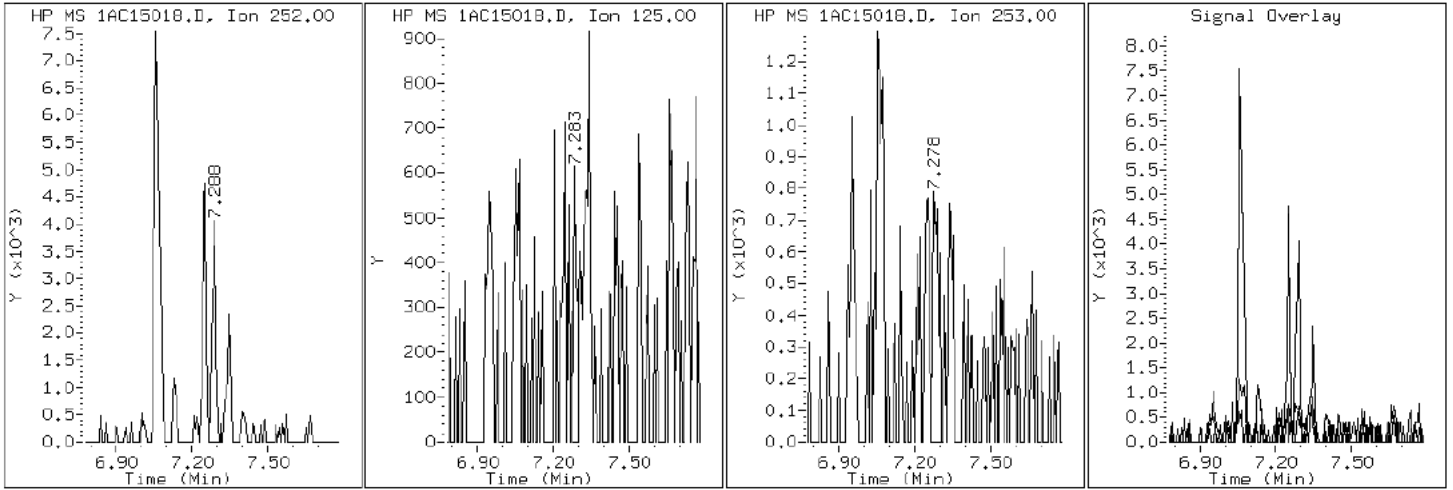
Client ID: CV0628C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-6-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15018.D

Date: 15-MAR-2013 17:03

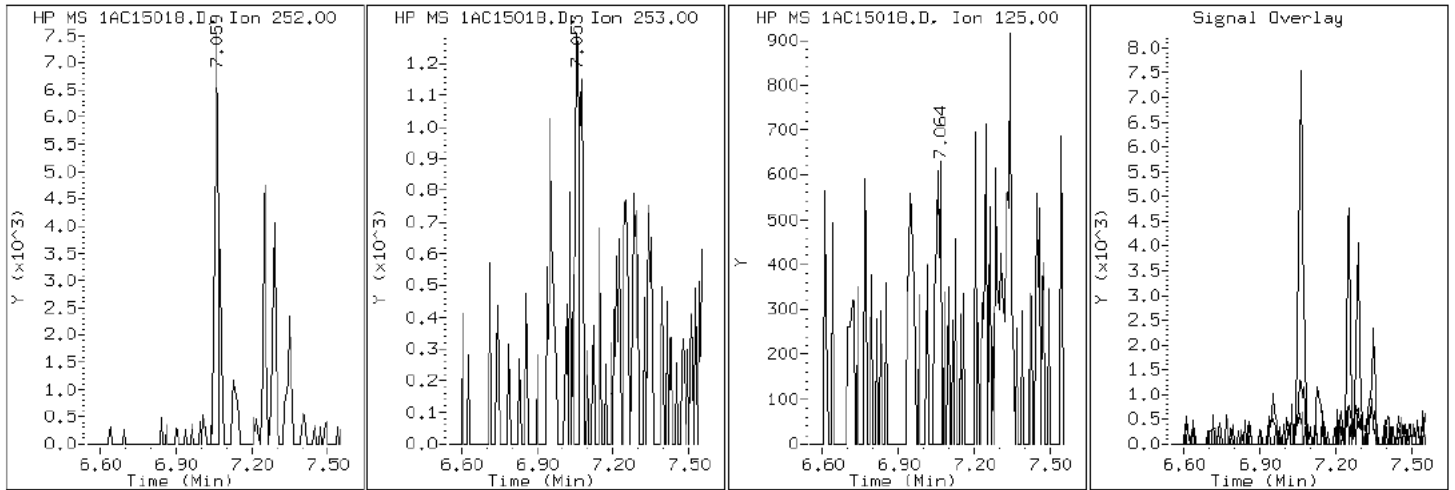
Client ID: CV0628C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-6-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15018.D

Date: 15-MAR-2013 17:03

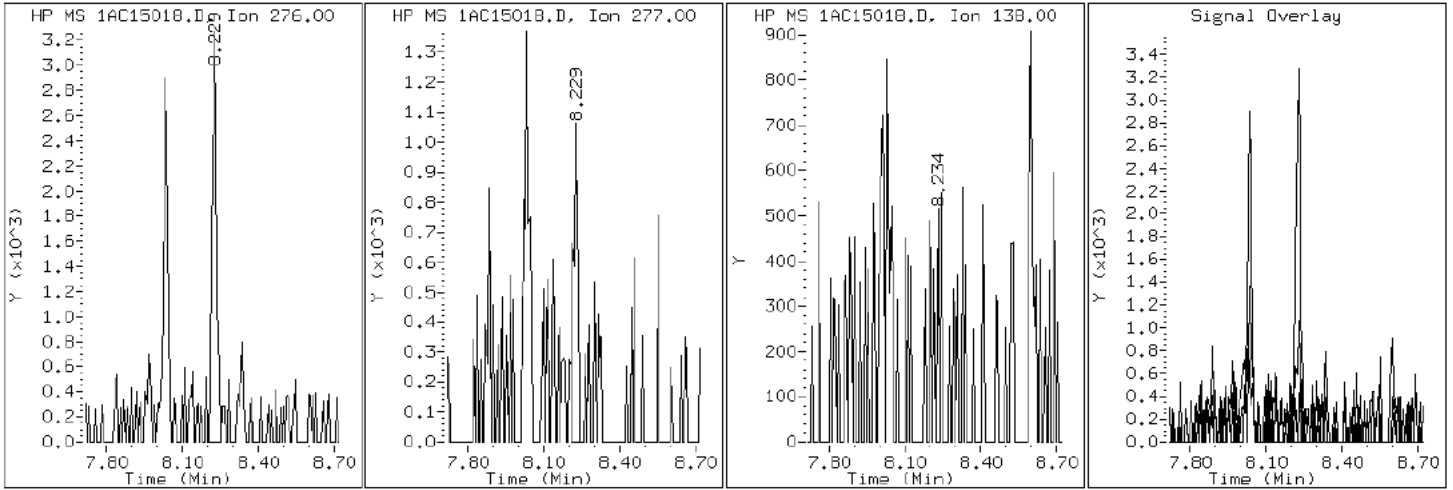
Client ID: CV0628C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-6-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15018.D

Date: 15-MAR-2013 17:03

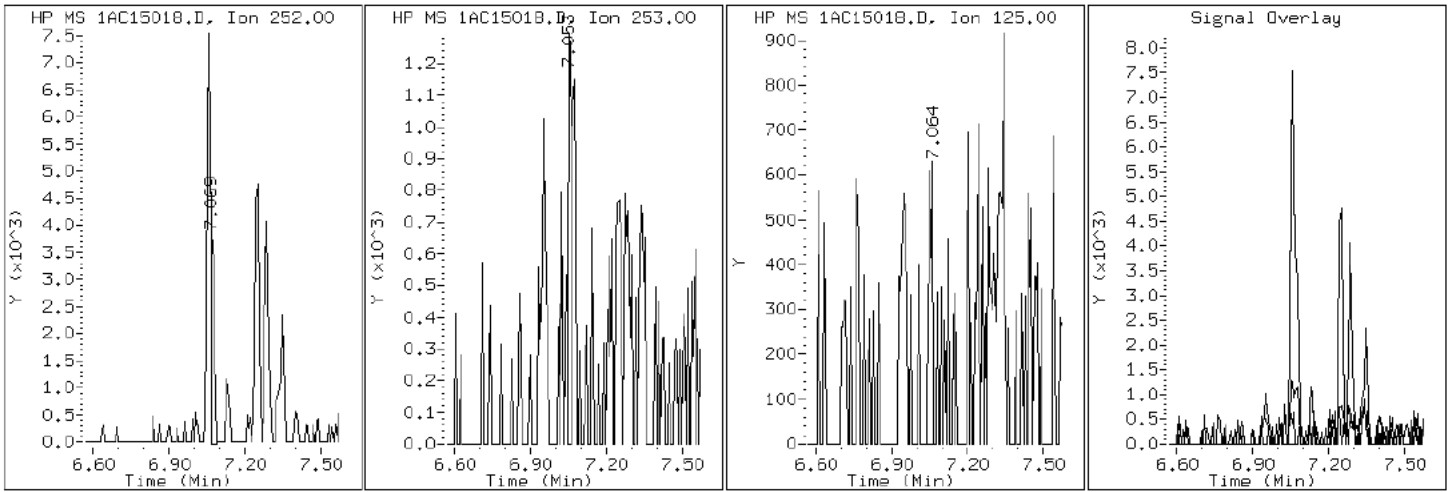
Client ID: CV0628C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-6-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15018.D

Date: 15-MAR-2013 17:03

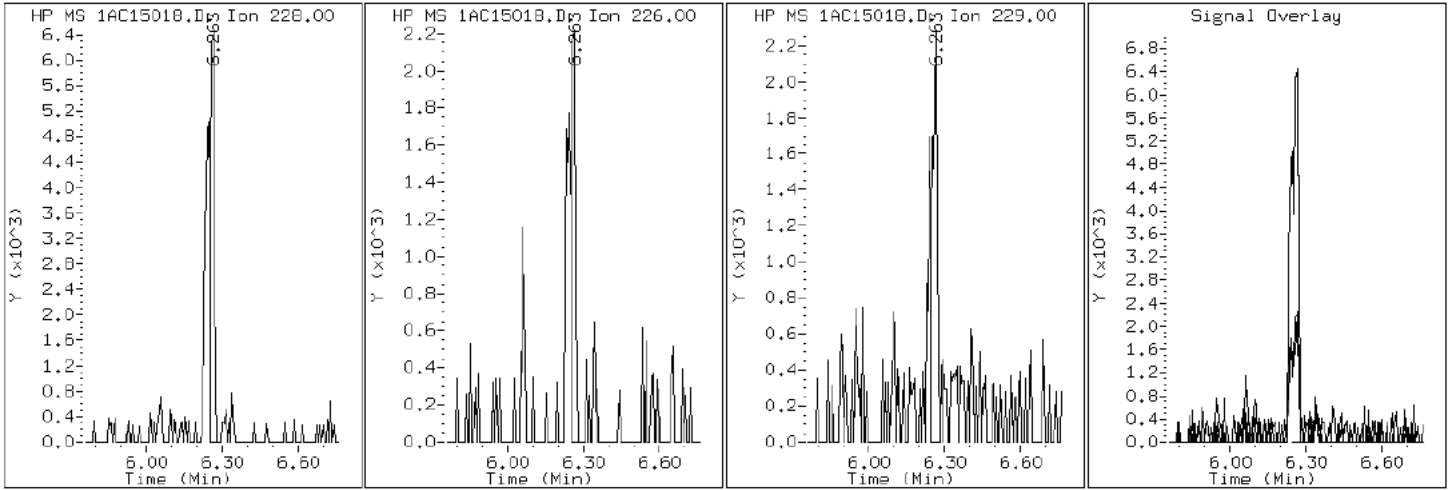
Client ID: CV0628C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-6-a

Operator: SCC

19 Chrysene



Data File: 1AC15018.D

Date: 15-MAR-2013 17:03

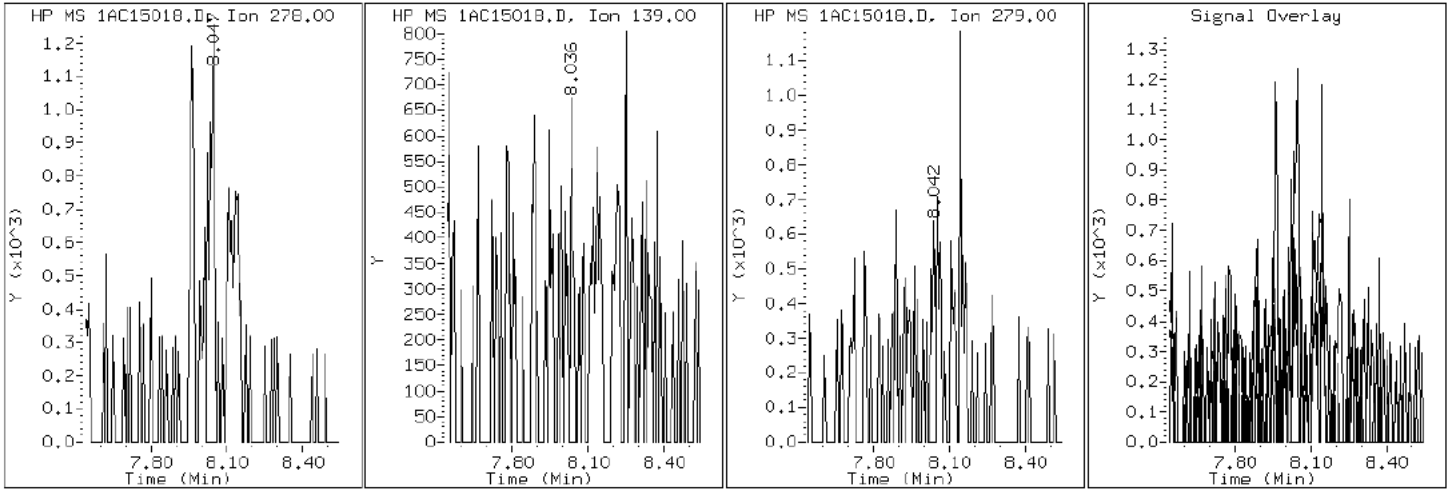
Client ID: CV0628C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-6-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC15018.D

Date: 15-MAR-2013 17:03

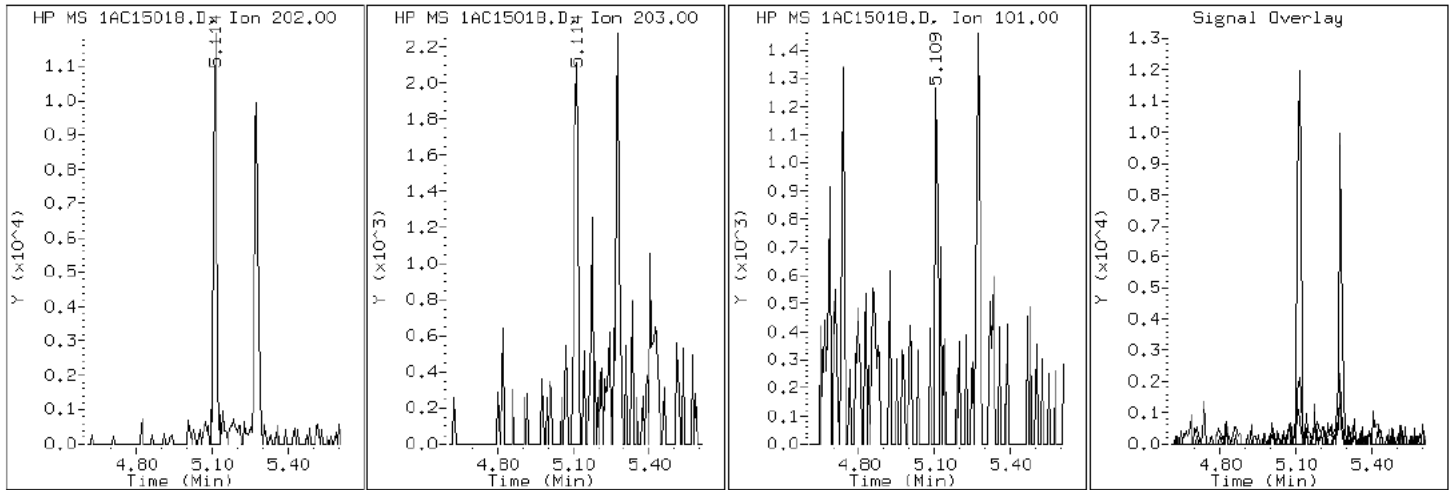
Client ID: CV0628C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-6-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15018.D

Date: 15-MAR-2013 17:03

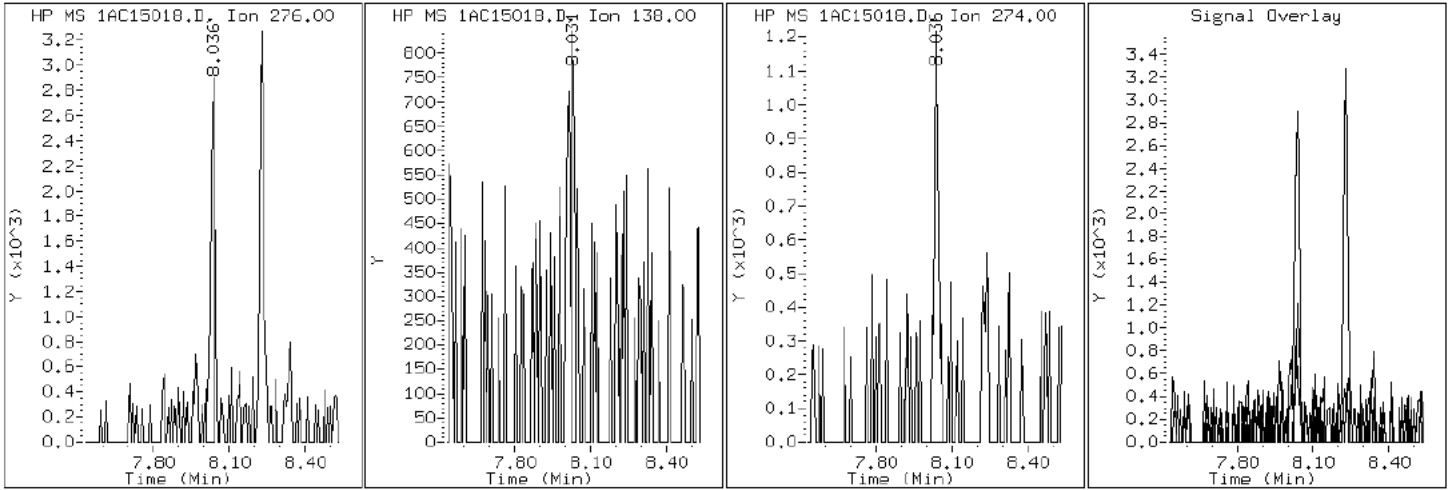
Client ID: CV0628C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-6-a

Operator: SCC

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



Data File: 1AC15018.D

Date: 15-MAR-2013 17:03

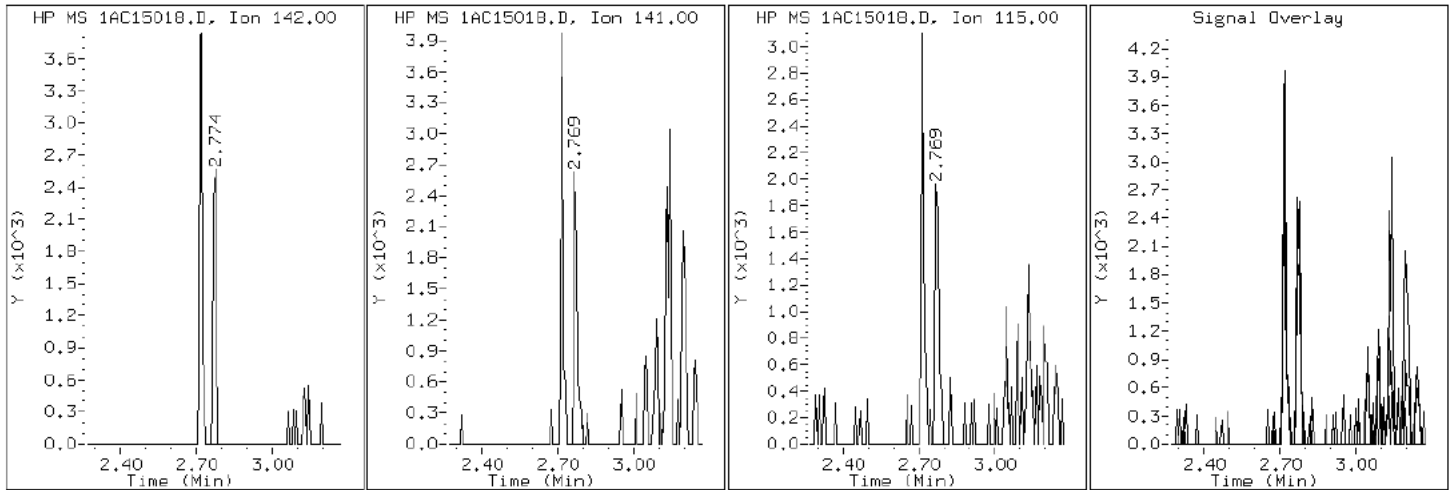
Client ID: CV0628C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-6-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15018.D

Date: 15-MAR-2013 17:03

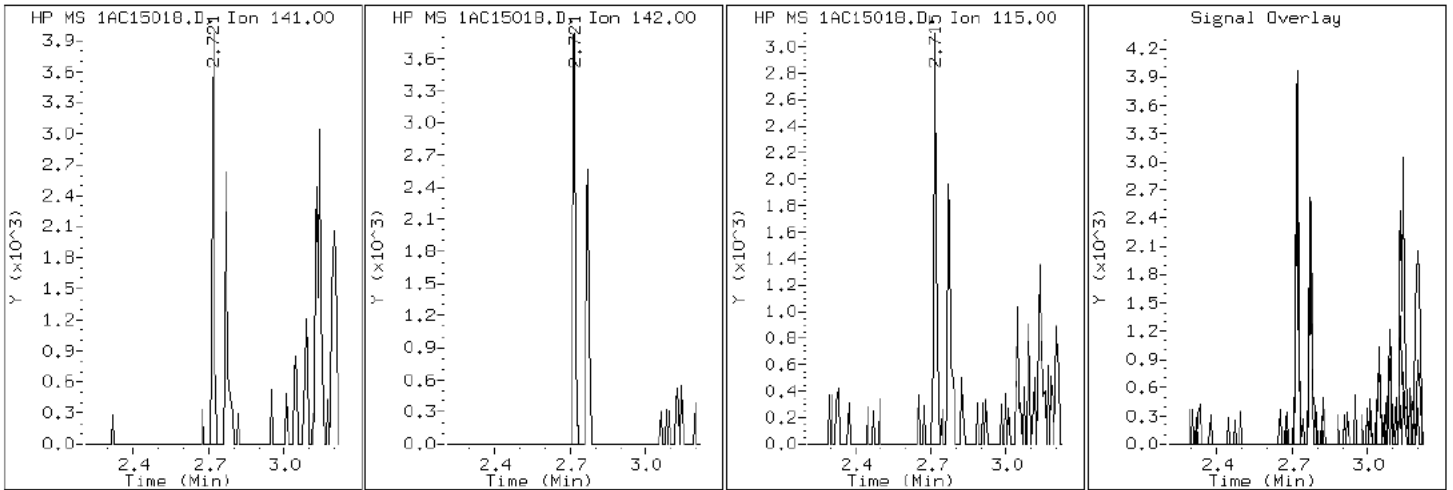
Client ID: CV0628C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-6-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15018.D

Date: 15-MAR-2013 17:03

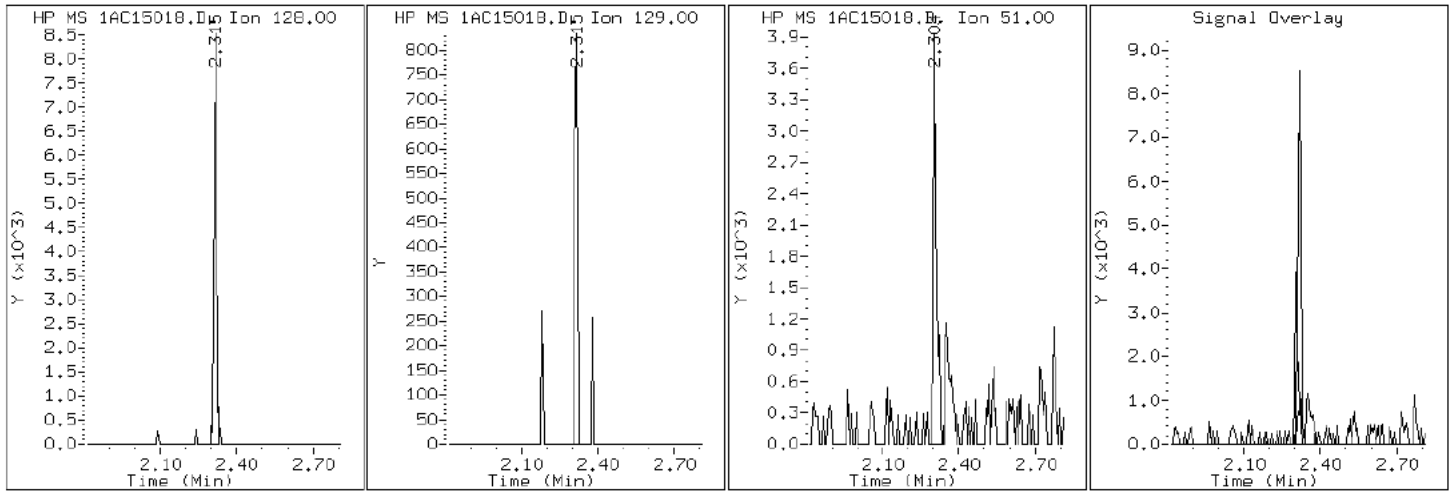
Client ID: CV0628C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-6-a

Operator: SCC

2 Naphthalene



Data File: 1AC15018.D

Date: 15-MAR-2013 17:03

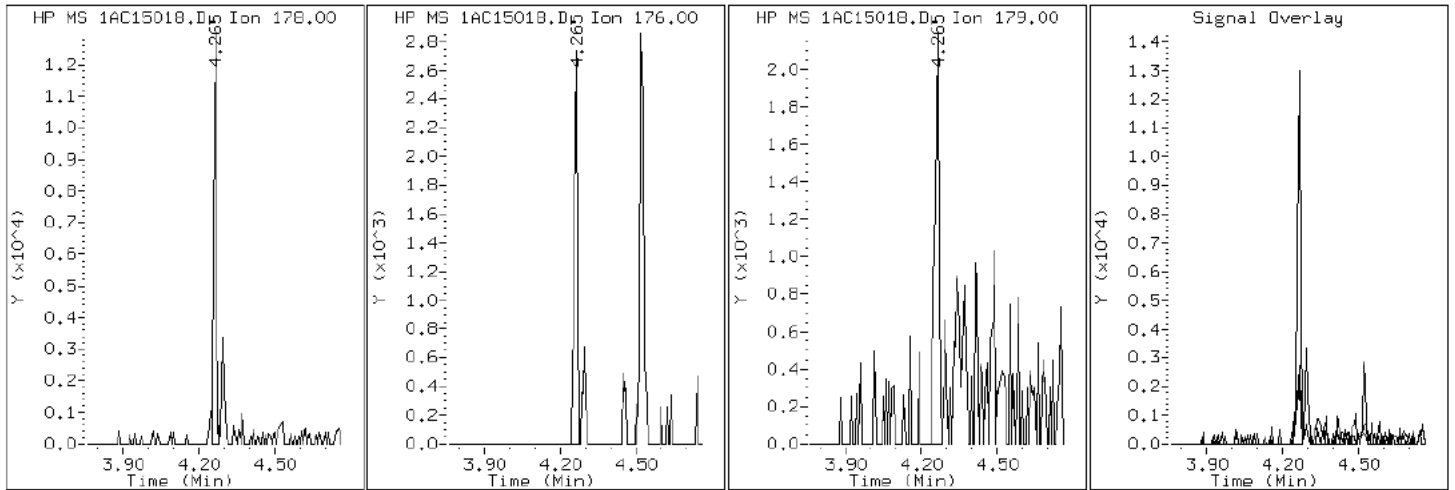
Client ID: CV0628C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-6-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15018.D

Date: 15-MAR-2013 17:03

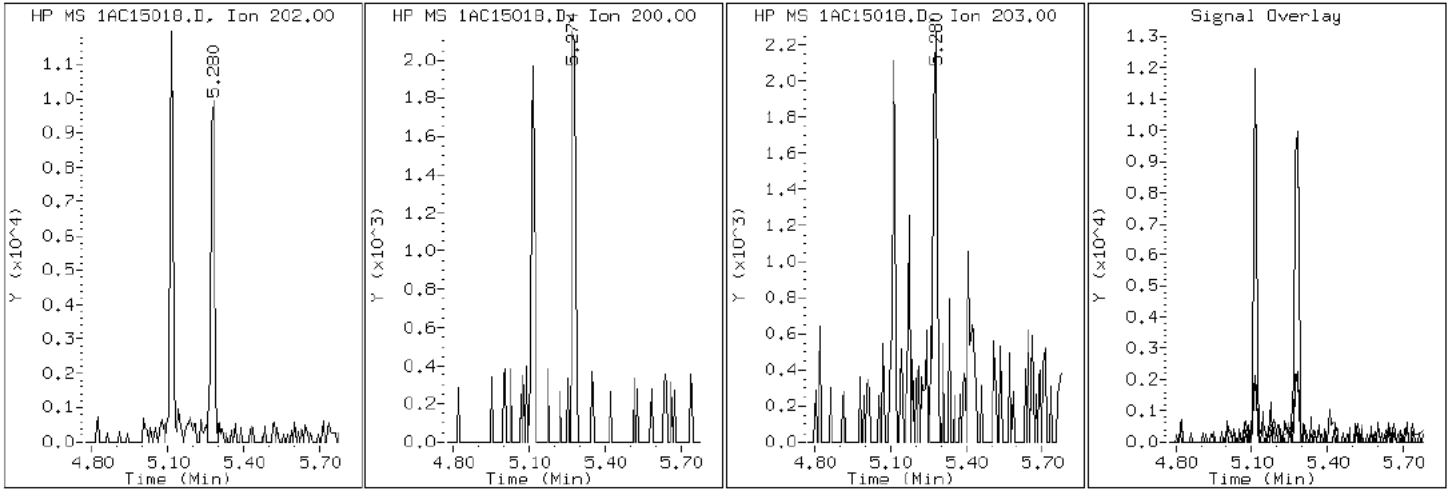
Client ID: CV0628C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-6-a

Operator: SCC

16 Pyrene

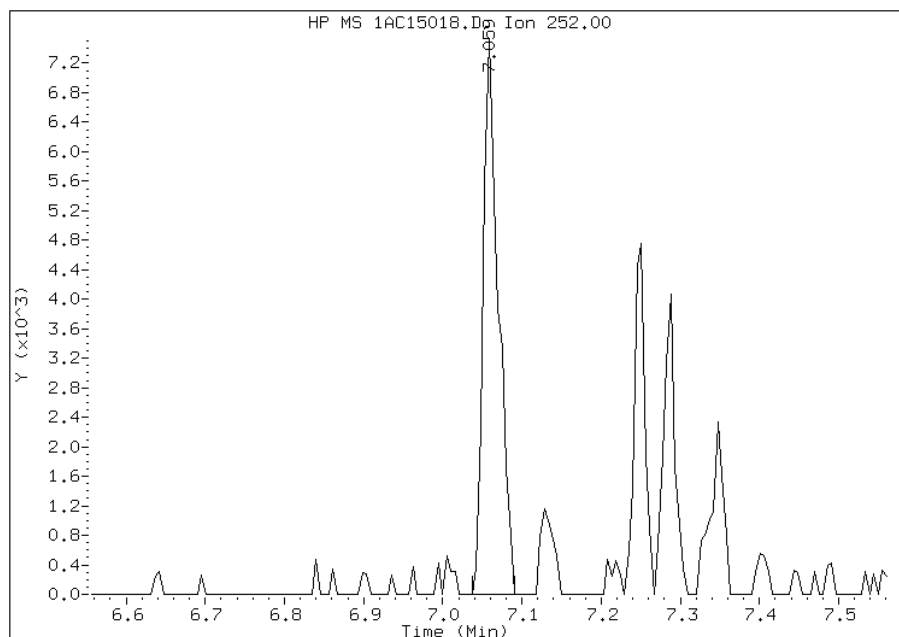


Manual Integration Report

Data File: 1AC15018.D
Inj. Date and Time: 15-MAR-2013 17:03
Instrument ID: BSMA5973.i
Client ID: CV0628C-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

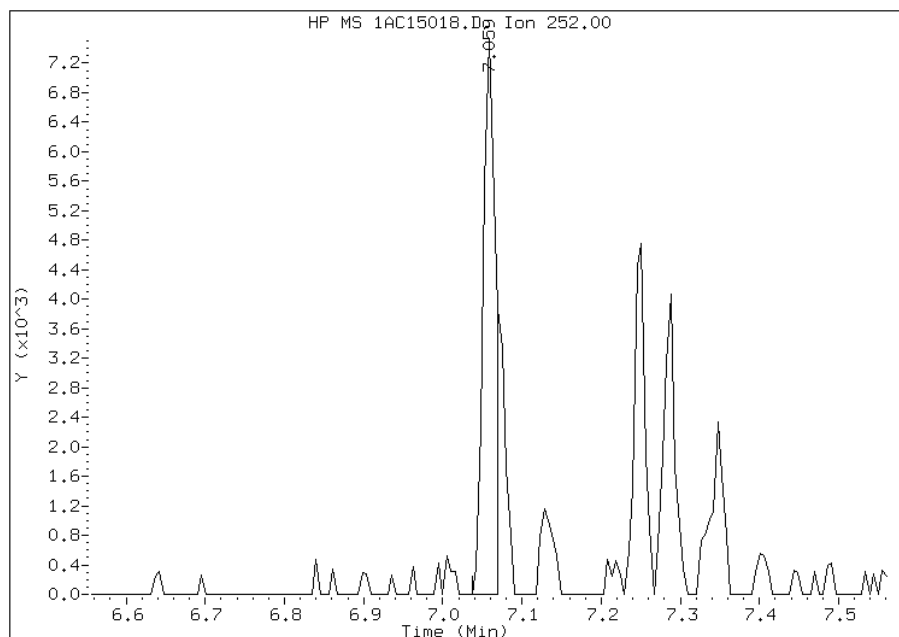
Processing Integration Results

RT: 7.06
Response: 9875
Amount: 2
Conc: 217



Manual Integration Results

RT: 7.06
Response: 7999
Amount: 2
Conc: 197



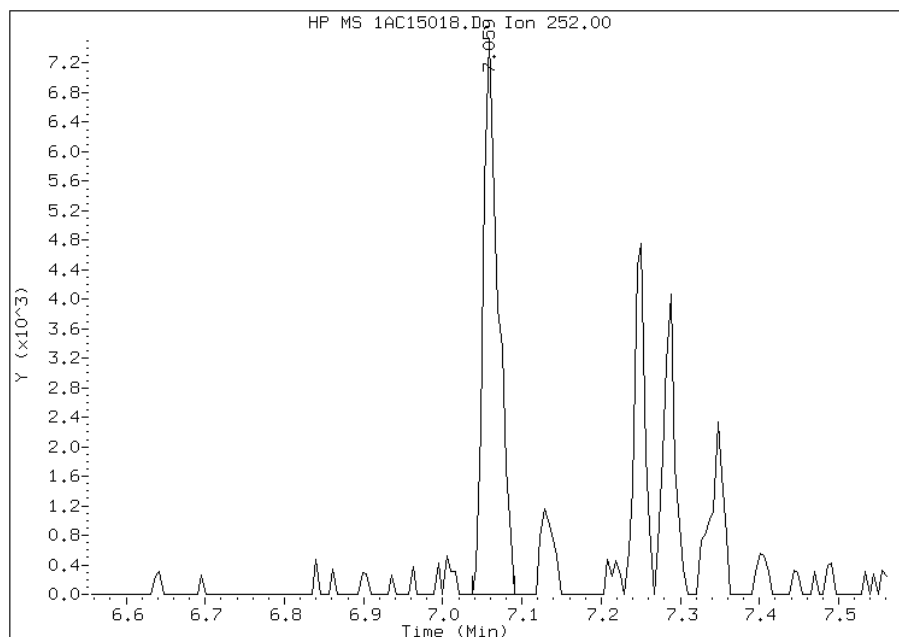
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:52
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15018.D
Inj. Date and Time: 15-MAR-2013 17:03
Instrument ID: BSMA5973.i
Client ID: CV0628C-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

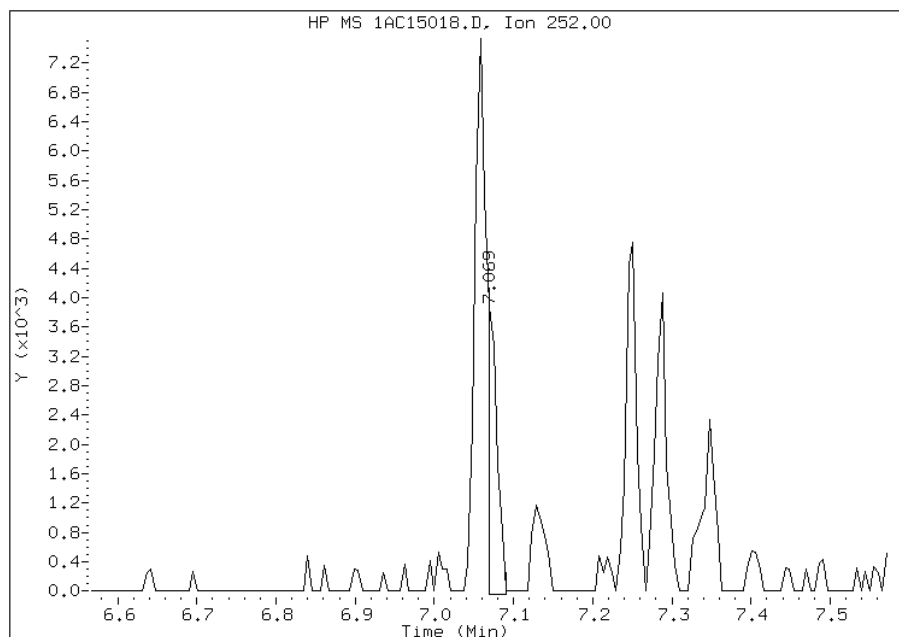
Processing Integration Results

RT: 7.06
Response: 9875
Amount: 1
Conc: 112



Manual Integration Results

RT: 7.07
Response: 3192
Amount: 0
Conc: 36



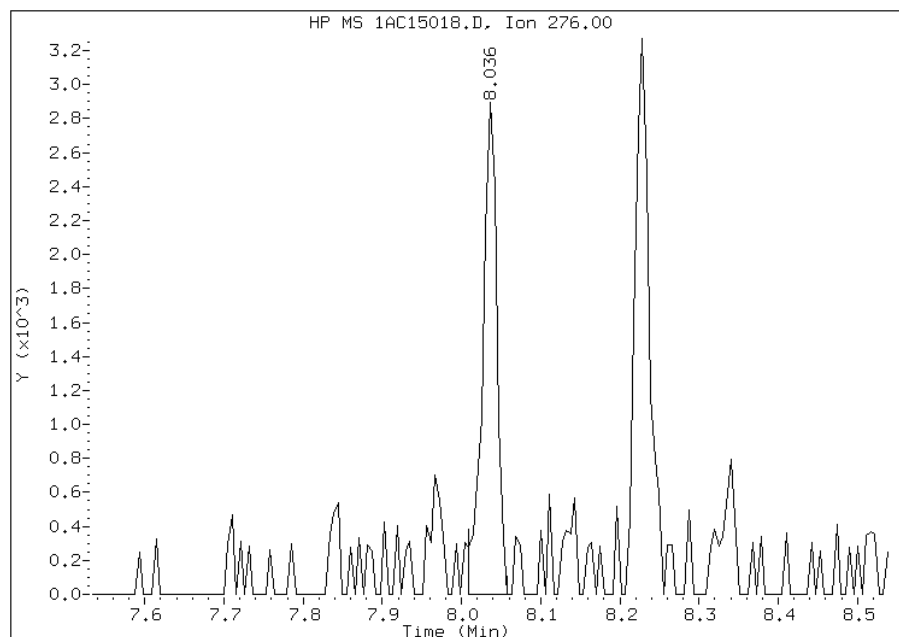
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15018.D
Inj. Date and Time: 15-MAR-2013 17:03
Instrument ID: BSMA5973.i
Client ID: CV0628C-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

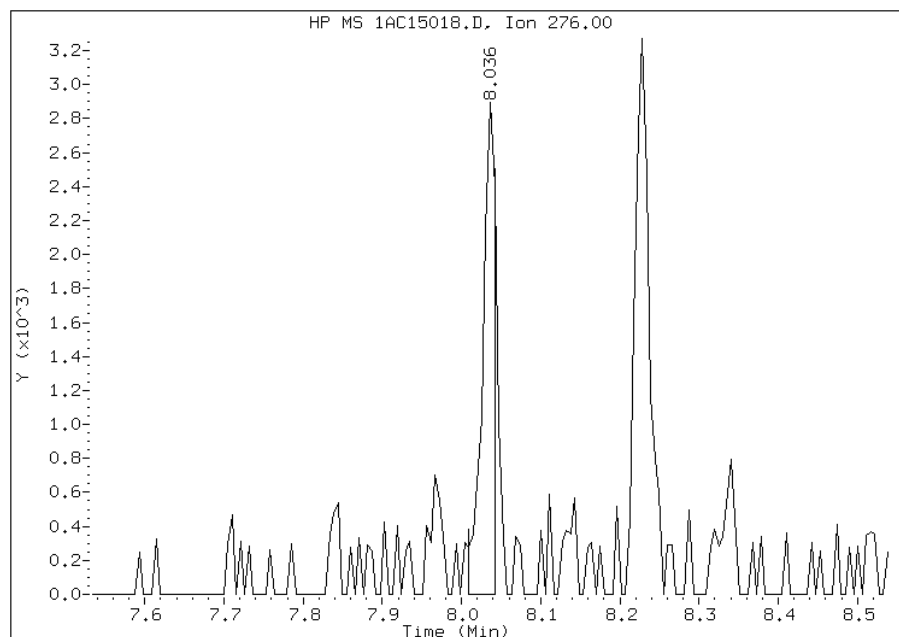
Processing Integration Results

RT: 8.04
Response: 3556
Amount: 1
Conc: 51



Manual Integration Results

RT: 8.04
Response: 3129
Amount: 1
Conc: 45



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0683A-CS-SP Lab Sample ID: 680-88118-7
 Matrix: Solid Lab File ID: 1AC15019.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 12:11
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.12(g) Date Analyzed: 03/15/2013 17:18
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 27.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	550	U	550	110
208-96-8	Acenaphthylene	96	J	220	27
120-12-7	Anthracene	84		46	23
56-55-3	Benzo[a]anthracene	380		44	21
50-32-8	Benzo[a]pyrene	220		57	29
205-99-2	Benzo[b]fluoranthene	820		67	33
191-24-2	Benzo[g,h,i]perylene	220		110	24
207-08-9	Benzo[k]fluoranthene	130		44	20
218-01-9	Chrysene	440		49	25
53-70-3	Dibenz(a,h)anthracene	86	J	110	23
206-44-0	Fluoranthene	430		110	22
86-73-7	Fluorene	110	U	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	170		110	39
90-12-0	1-Methylnaphthalene	120	J	220	24
91-57-6	2-Methylnaphthalene	460		220	39
91-20-3	Naphthalene	200	J	220	24
85-01-8	Phenanthrene	340		44	21
129-00-0	Pyrene	380		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	74		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15019.D
 Lab Smp Id: 680-88118-A-7-A Client Smp ID: CV0683A-CS-SP
 Inj Date : 15-MAR-2013 17:18
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-7-a
 Misc Info : 680-88118-A-7-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 19
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	27.725	% 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		2.309	2.303	(1.000)	394553	40.0000		
* 6 Acenaphthene-d10	164		3.329	3.324	(1.000)	305126	40.0000		
* 10 Phenanthrene-d10	188		4.253	4.248	(1.000)	495363	40.0000		
\$ 14 o-Terphenyl	230		4.526	4.526	(1.064)	11435	1.85909	680.4893	
* 18 Chrysene-d12	240		6.251	6.246	(1.000)	389946	40.0000		
* 23 Perylene-d12	264		7.346	7.330	(1.000)	392506	40.0000		
2 Naphthalene	128		2.314	2.314	(1.002)	5058	0.55488	203.1042	
3 2-Methylnaphthalene	141		2.720	2.715	(1.178)	2172	1.26930	464.6064	
4 1-Methylnaphthalene	142		2.773	2.773	(1.201)	1735	0.33101	121.1591	
5 Acenaphthylene	152		3.243	3.238	(0.974)	1048	0.26106	95.5579(Q)	
11 Phenanthrene	178		4.264	4.264	(1.002)	11590	0.92315	337.9038	
12 Anthracene	178		4.296	4.296	(1.010)	2780	0.22836	83.5888	
13 Carbazole	167		4.461	4.456	(1.049)	1310	0.12278	44.9401	
15 Fluoranthene	202		5.113	5.113	(1.202)	14439	1.16346	425.8660	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
16 Pyrene	202	5.279	5.279	(0.844)	11667	1.04350	381.9556
17 Benzo(a)anthracene	228	6.240	6.235	(0.998)	9830	1.03766	379.8192
19 Chrysene	228	6.262	6.262	(1.002)	12248	1.21270	443.8901
20 Benzo(b)fluoranthene	252	7.063	7.052	(0.961)	11190	2.23732	818.9347(M)
21 Benzo(k)fluoranthene	252	7.074	7.074	(0.963)	3658	0.34550	126.4651(QMH)
22 Benzo(a)pyrene	252	7.287	7.282	(0.992)	5502	0.59731	218.6350
24 Indeno(1,2,3-cd)pyrene	276	8.041	8.035	(1.095)	3776	0.45432	166.2947(M)
25 Dibenzo(a,h)anthracene	278	8.046	8.045	(1.095)	1942	0.23575	86.2940(H)
26 Benzo(g,h,i)perylene	276	8.228	8.222	(1.120)	4983	0.59561	218.0117

QC Flag Legend

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

Data File: 1AC15019.D

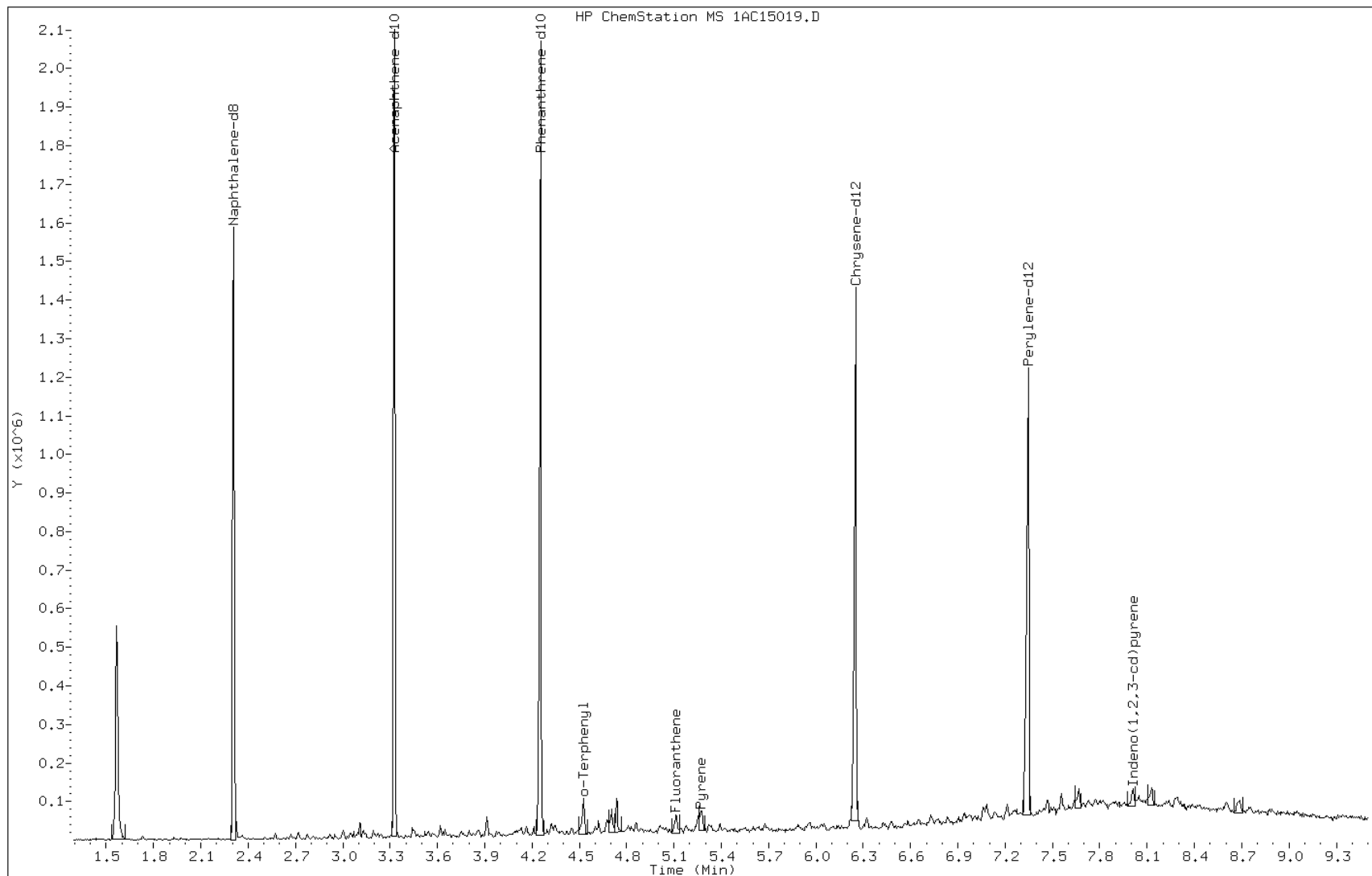
Date: 15-MAR-2013 17:18

Client ID: CV0683A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-7-a

Operator: SCC



Data File: 1AC15019.D

Date: 15-MAR-2013 17:18

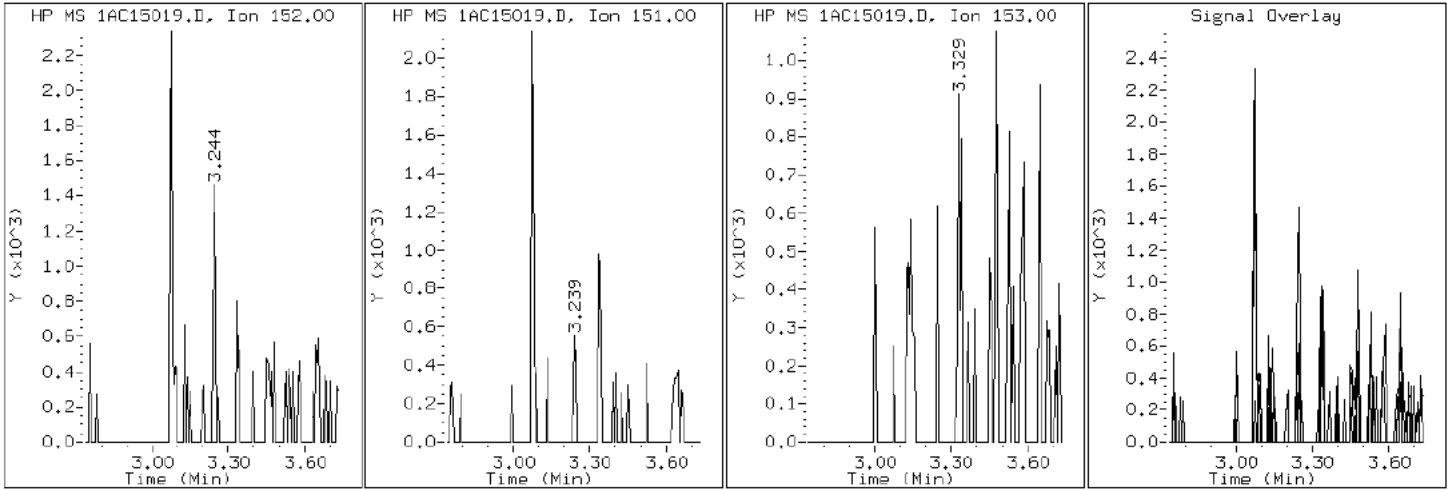
Client ID: CV0683A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-7-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15019.D

Date: 15-MAR-2013 17:18

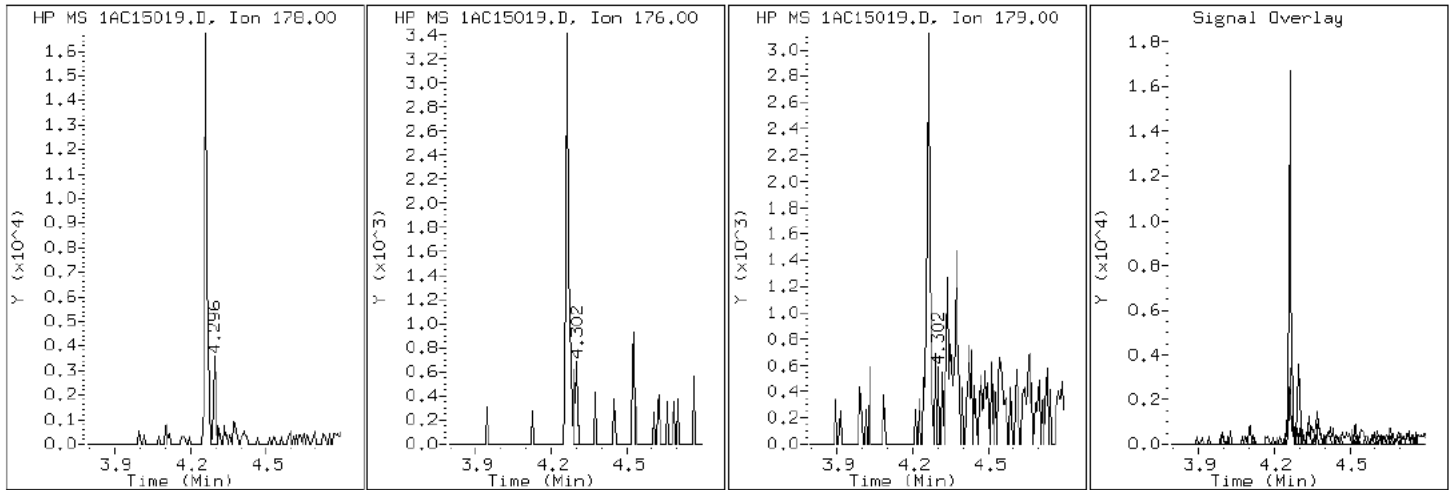
Client ID: CV0683A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-7-a

Operator: SCC

12 Anthracene



Data File: 1AC15019.D

Date: 15-MAR-2013 17:18

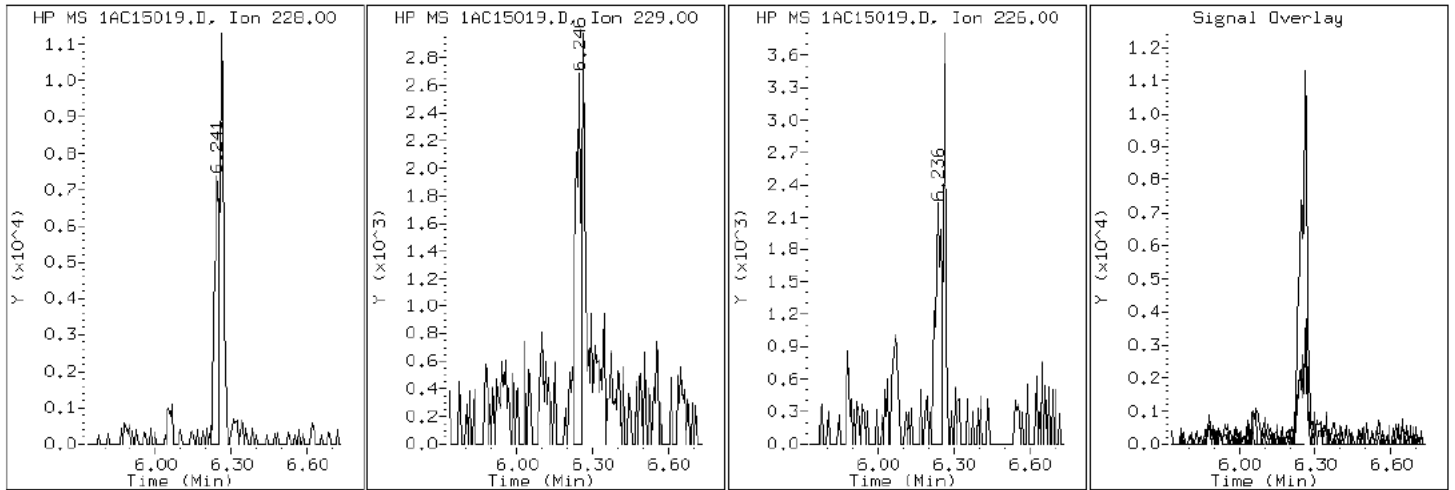
Client ID: CV0683A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-7-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15019.D

Date: 15-MAR-2013 17:18

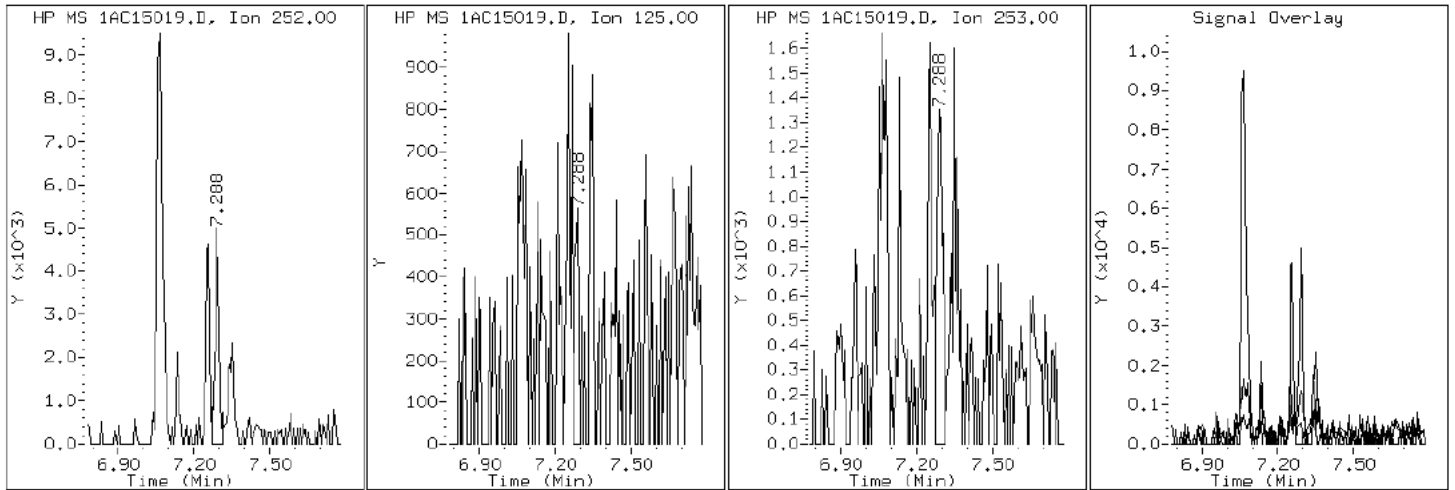
Client ID: CV0683A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-7-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15019.D

Date: 15-MAR-2013 17:18

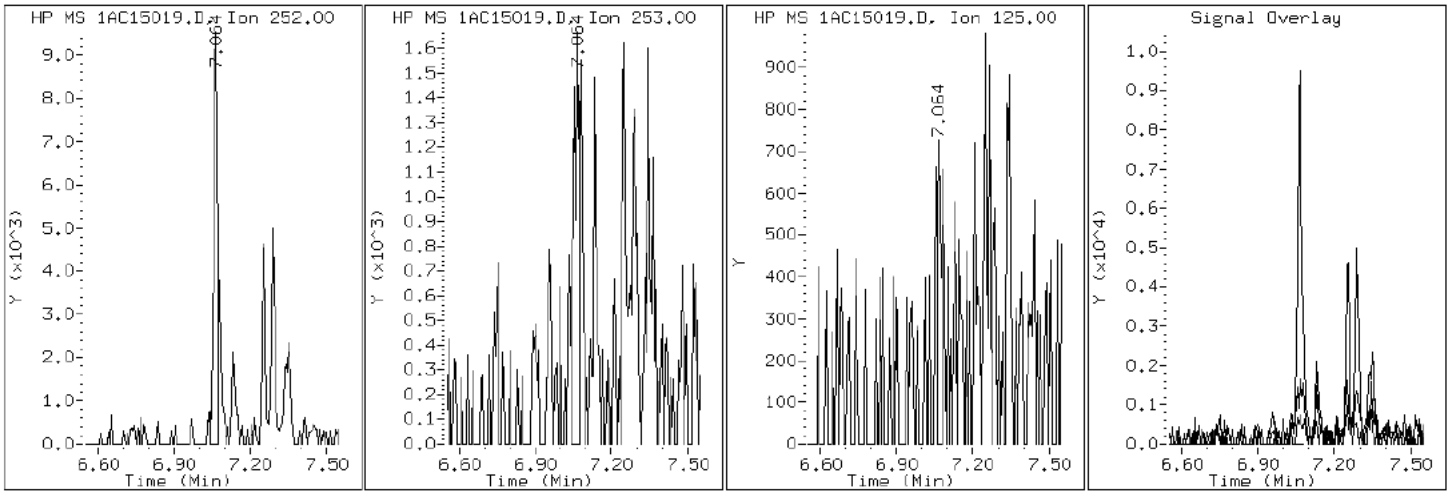
Client ID: CV0683A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-7-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15019.D

Date: 15-MAR-2013 17:18

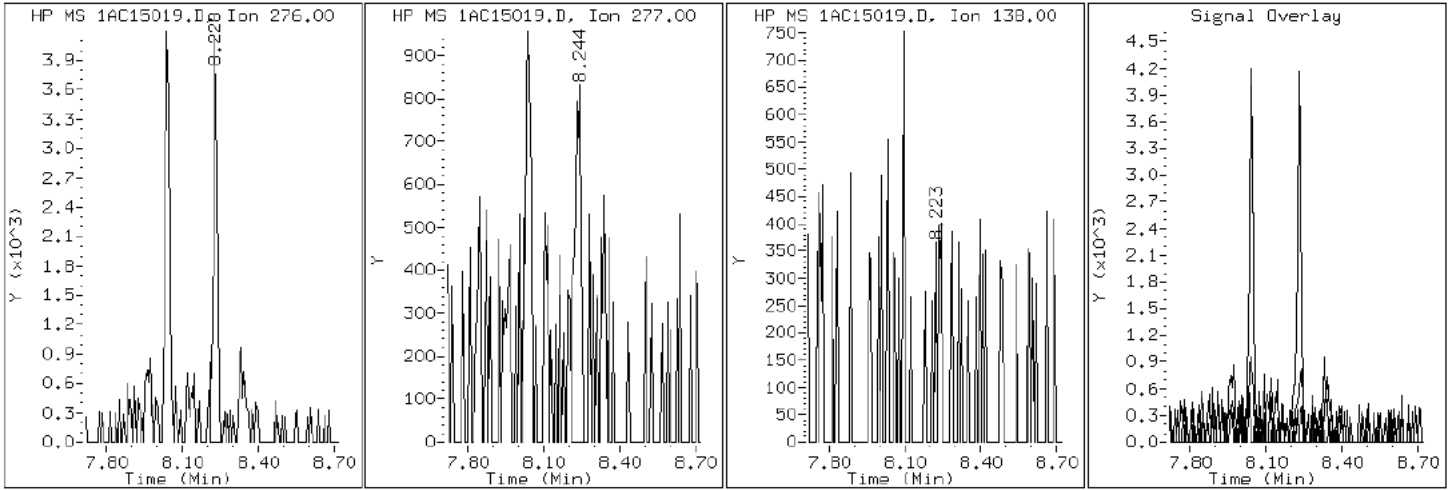
Client ID: CV0683A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-7-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15019.D

Date: 15-MAR-2013 17:18

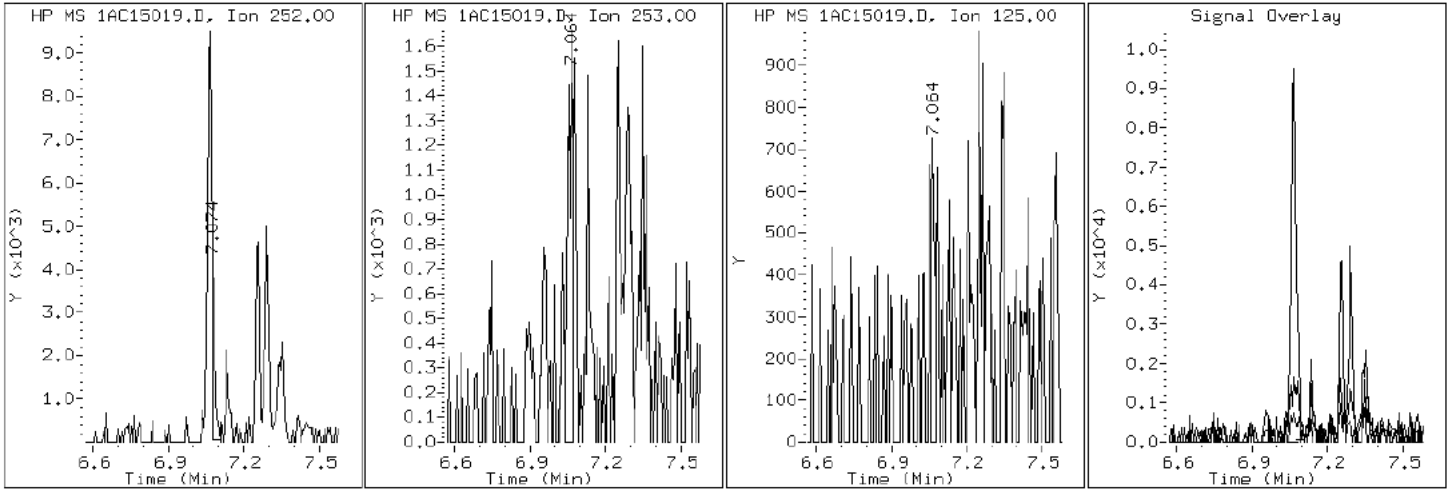
Client ID: CV0683A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-7-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15019.D

Date: 15-MAR-2013 17:18

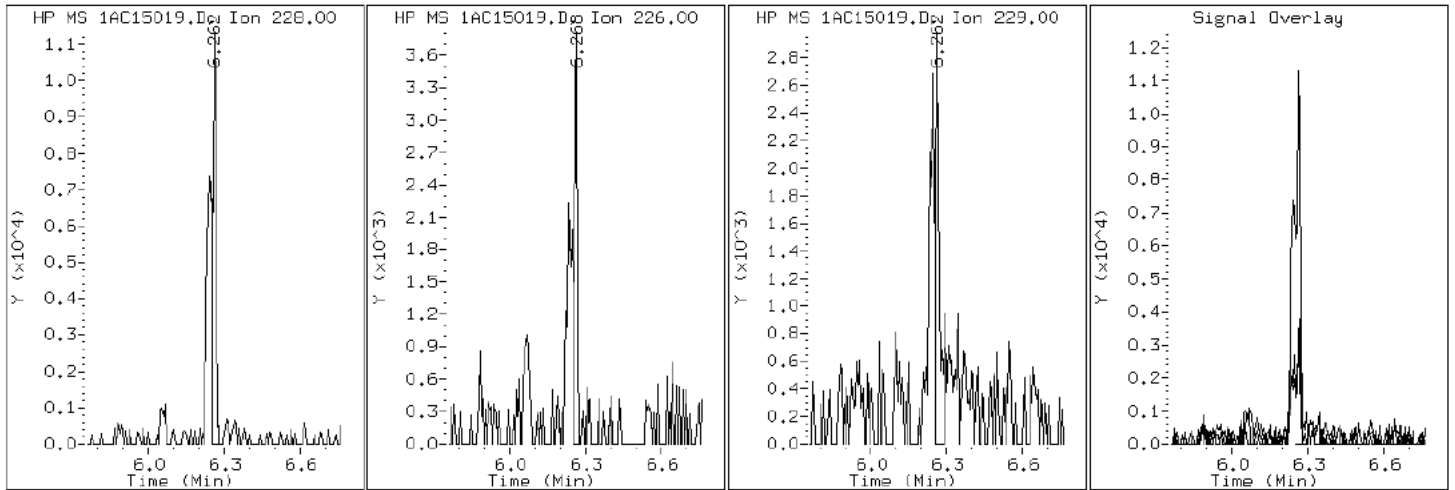
Client ID: CV0683A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-7-a

Operator: SCC

19 Chrysene



Data File: 1AC15019.D

Date: 15-MAR-2013 17:18

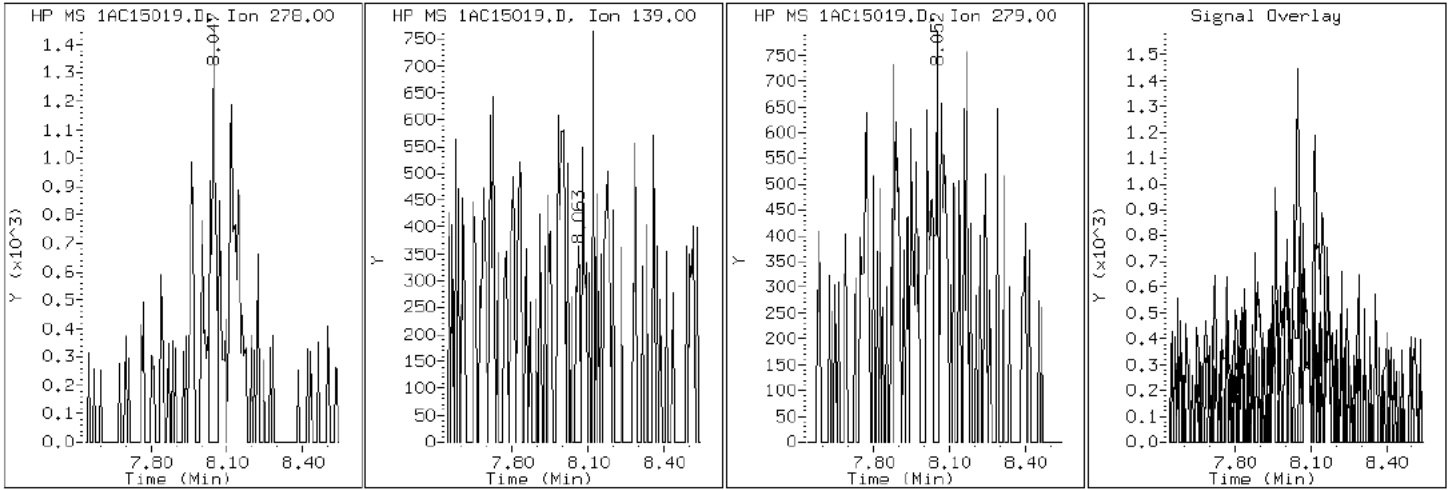
Client ID: CV0683A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-7-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC15019.D

Date: 15-MAR-2013 17:18

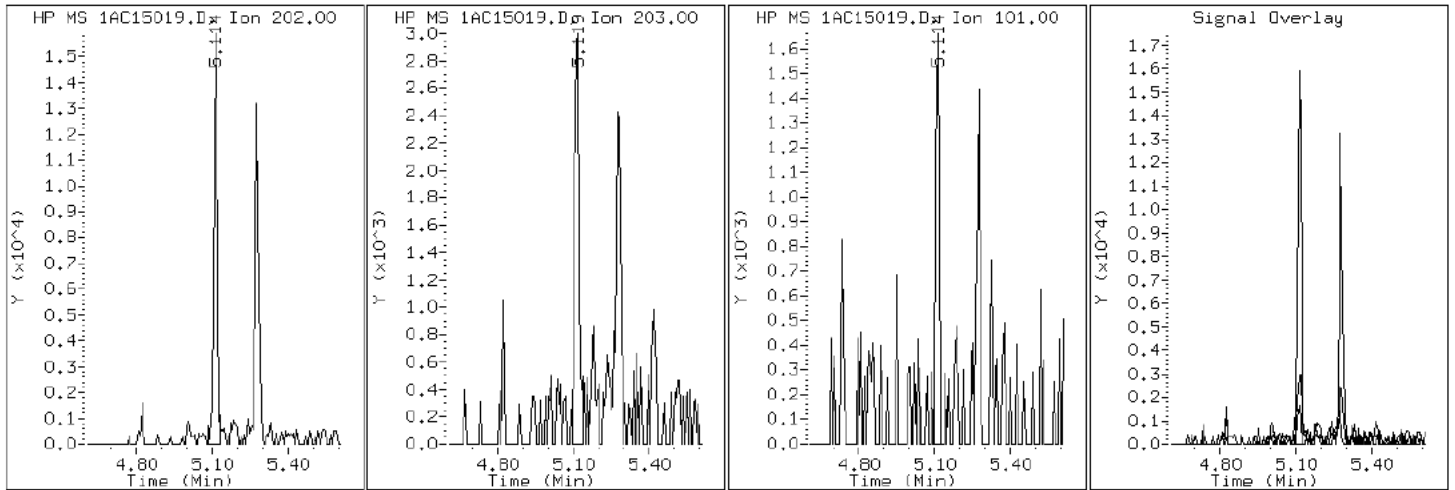
Client ID: CV0683A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-7-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15019.D

Date: 15-MAR-2013 17:18

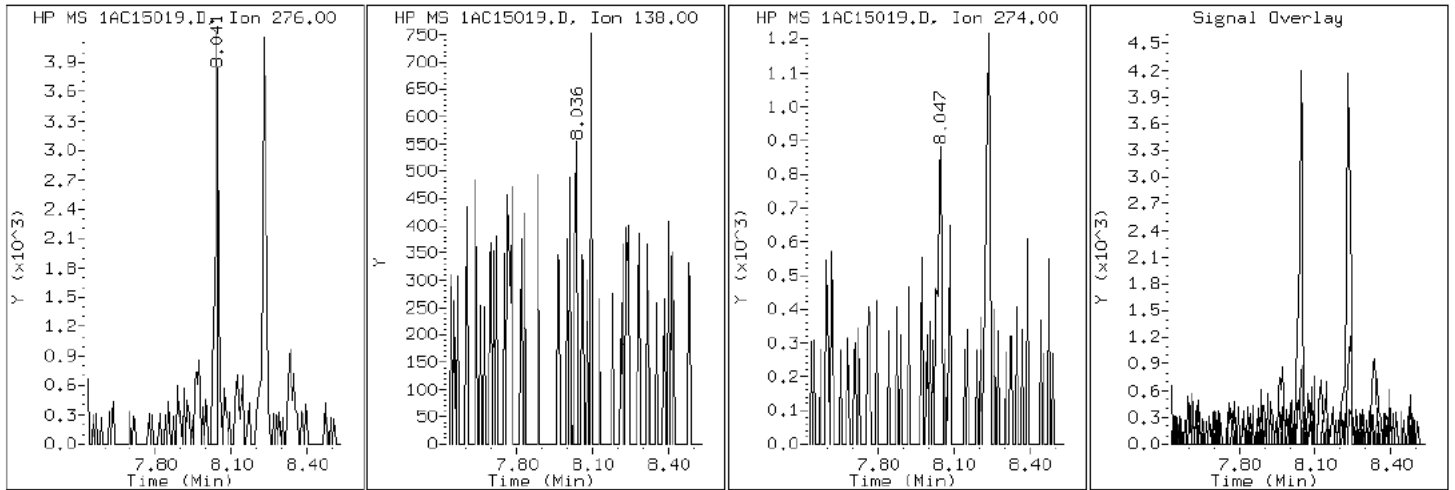
Client ID: CV0683A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-7-a

Operator: SCC

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



Data File: 1AC15019.D

Date: 15-MAR-2013 17:18

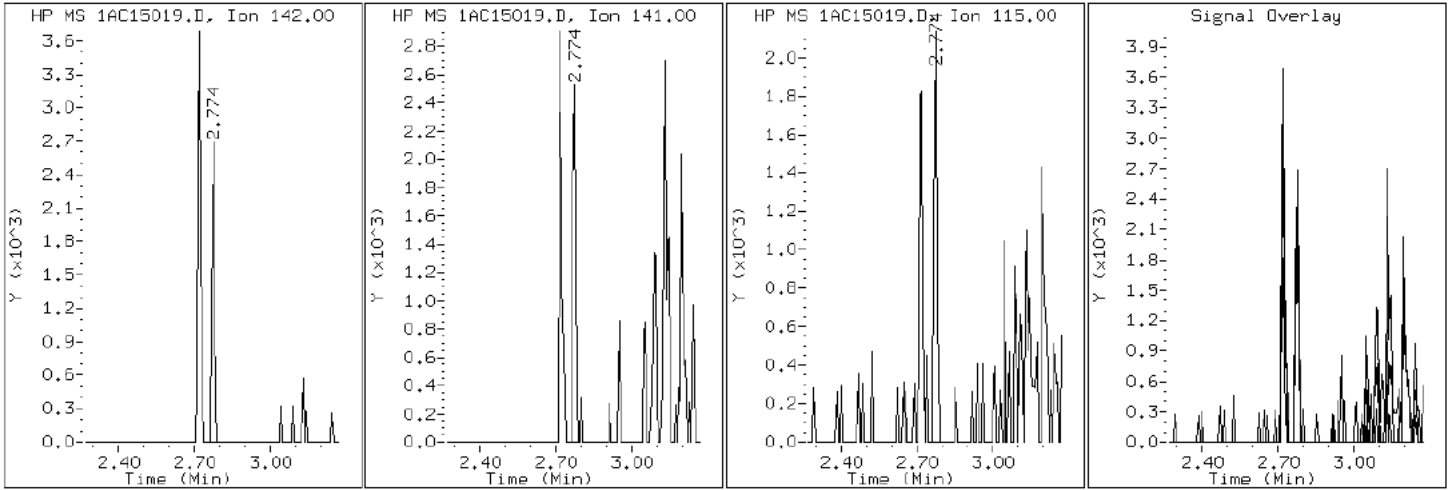
Client ID: CV0683A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-7-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15019.D

Date: 15-MAR-2013 17:18

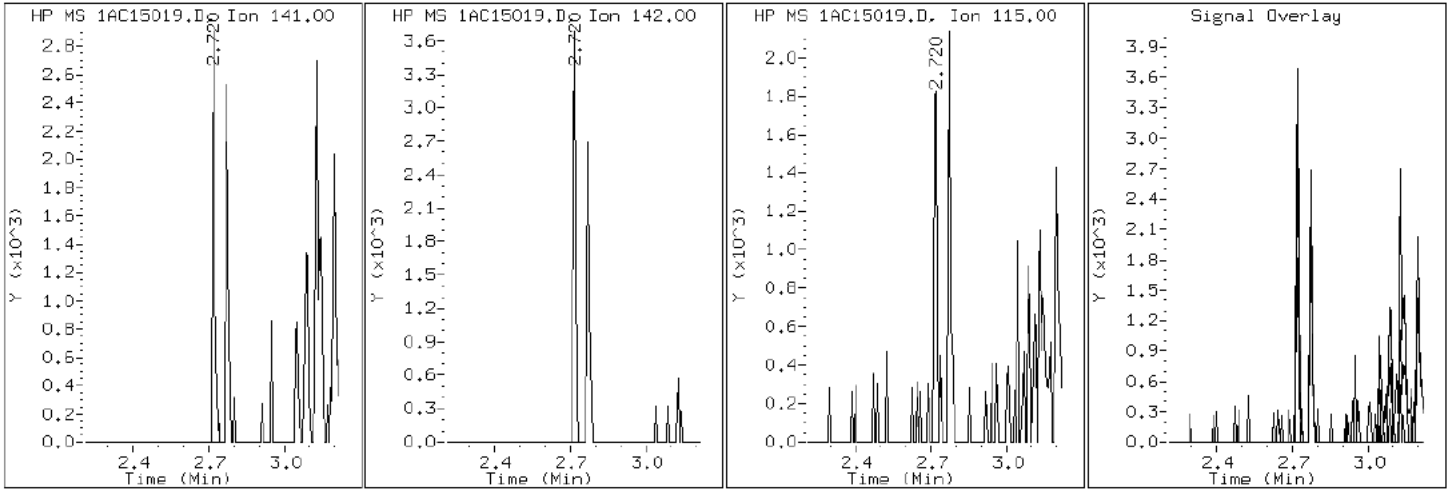
Client ID: CV0683A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-7-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15019.D

Date: 15-MAR-2013 17:18

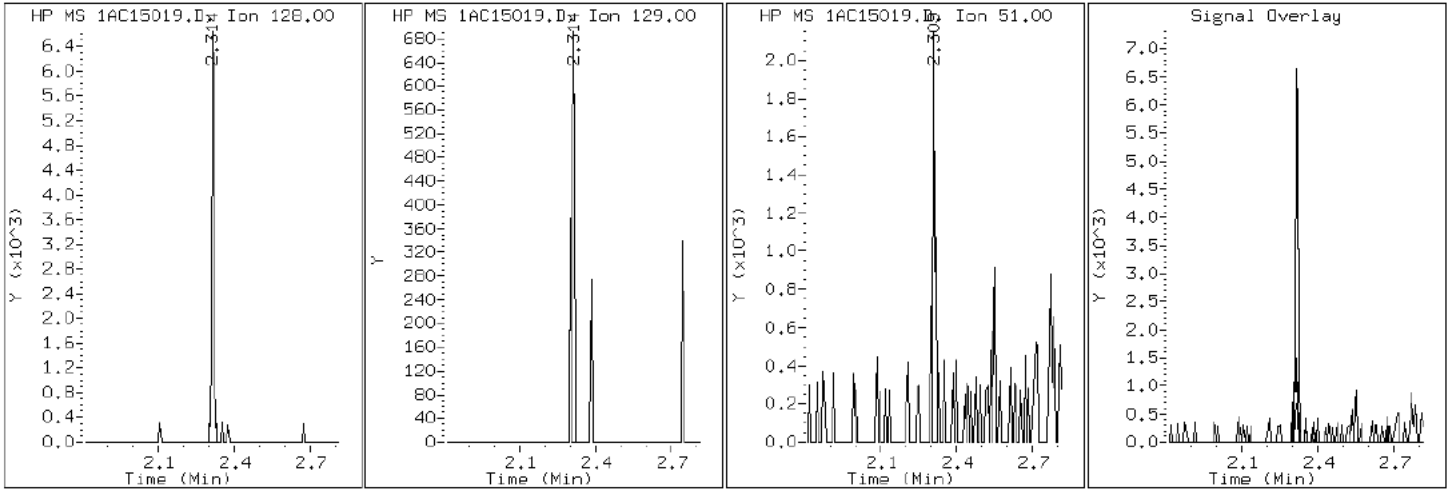
Client ID: CV0683A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-7-a

Operator: SCC

2 Naphthalene



Data File: 1AC15019.D

Date: 15-MAR-2013 17:18

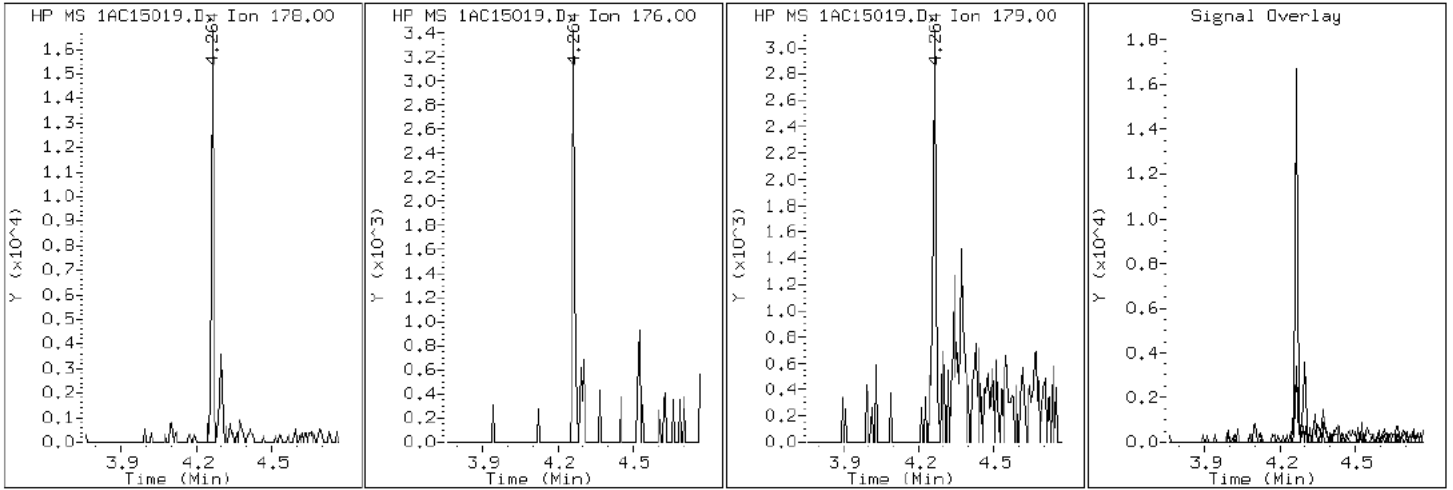
Client ID: CV0683A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-7-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15019.D

Date: 15-MAR-2013 17:18

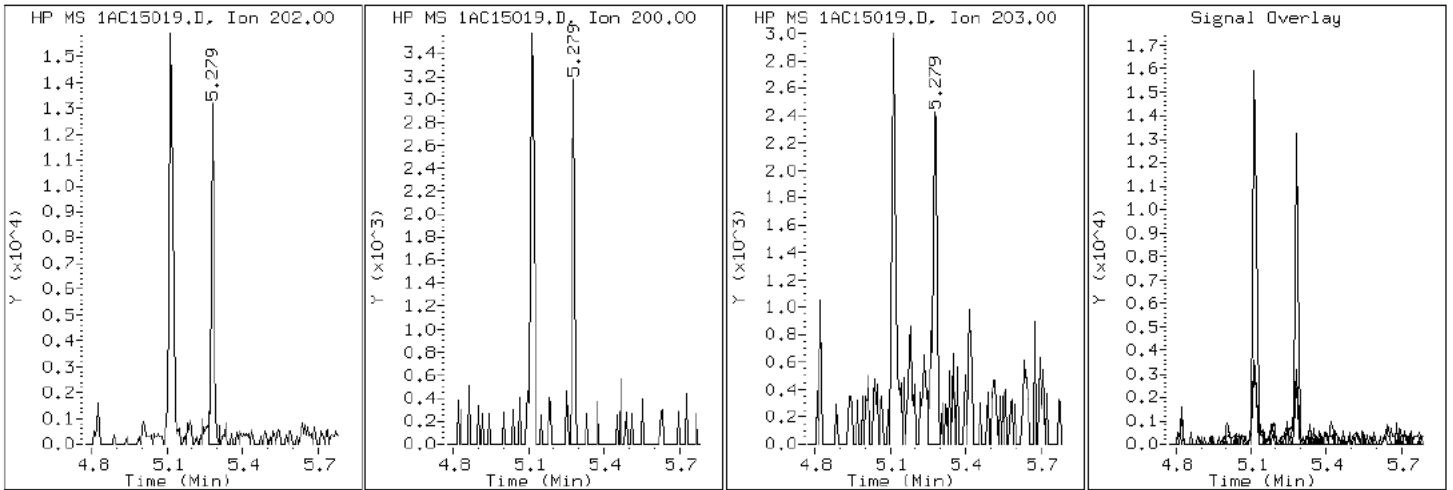
Client ID: CV0683A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-7-a

Operator: SCC

16 Pyrene

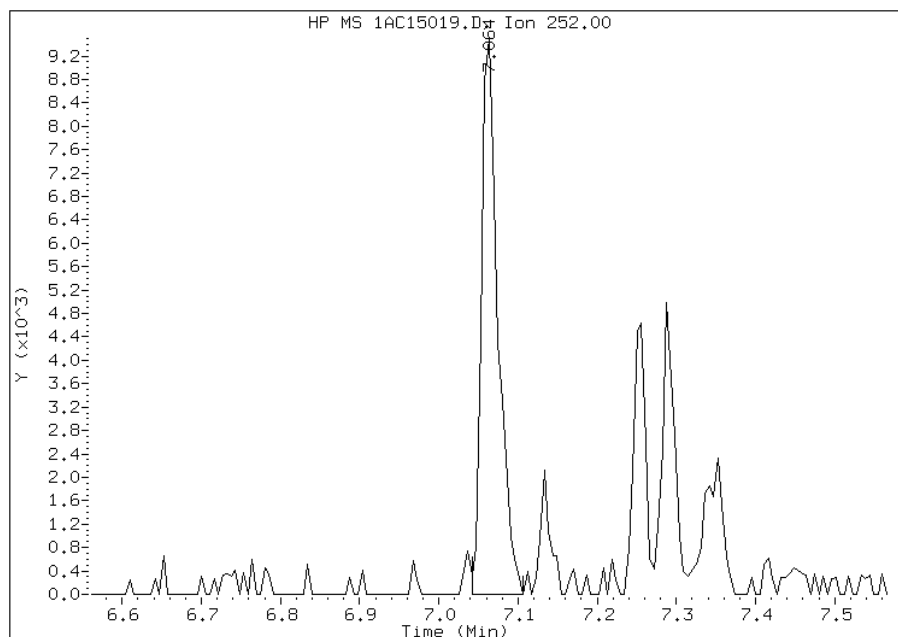


Manual Integration Report

Data File: 1AC15019.D
Inj. Date and Time: 15-MAR-2013 17:18
Instrument ID: BSMA5973.i
Client ID: CV0683A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

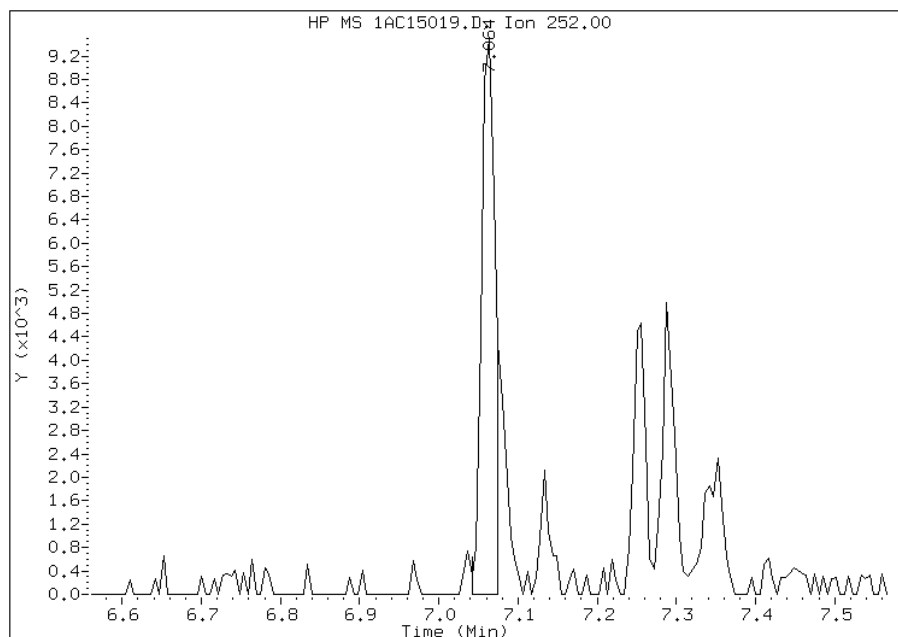
Processing Integration Results

RT: 7.06
Response: 13603
Amount: 2
Conc: 901



Manual Integration Results

RT: 7.06
Response: 11190
Amount: 2
Conc: 819



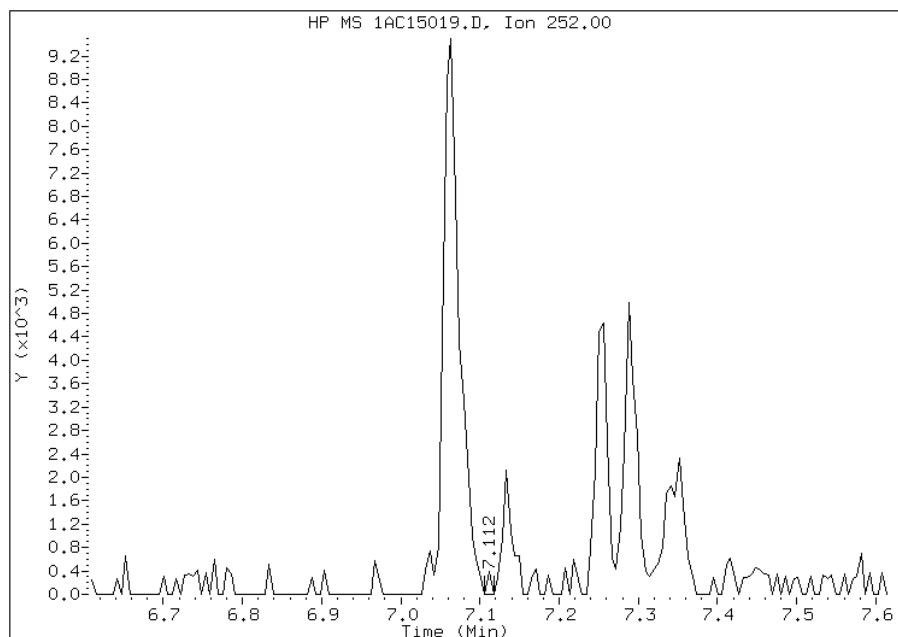
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:54
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15019.D
Inj. Date and Time: 15-MAR-2013 17:18
Instrument ID: BSMA5973.i
Client ID: CV0683A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

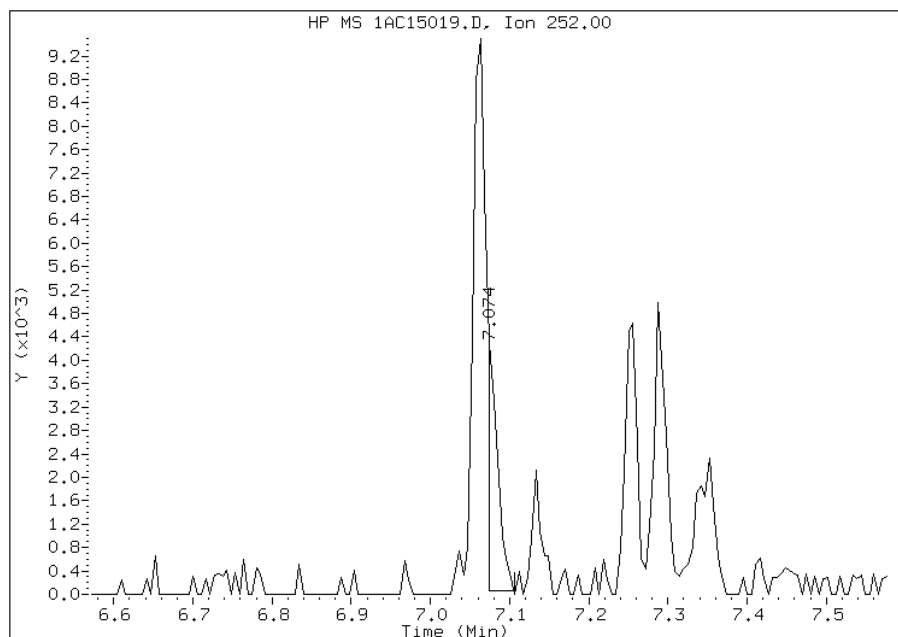
Processing Integration Results

RT: 7.11
Response: 127
Amount: 0
Conc: 4



Manual Integration Results

RT: 7.07
Response: 3658
Amount: 0
Conc: 126



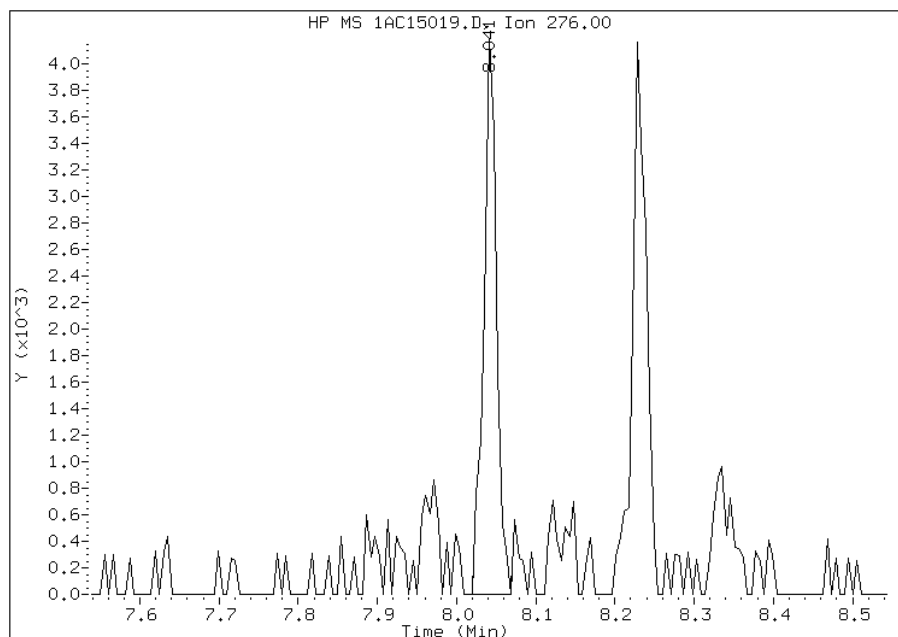
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:54
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15019.D
Inj. Date and Time: 15-MAR-2013 17:18
Instrument ID: BSMA5973.i
Client ID: CV0683A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

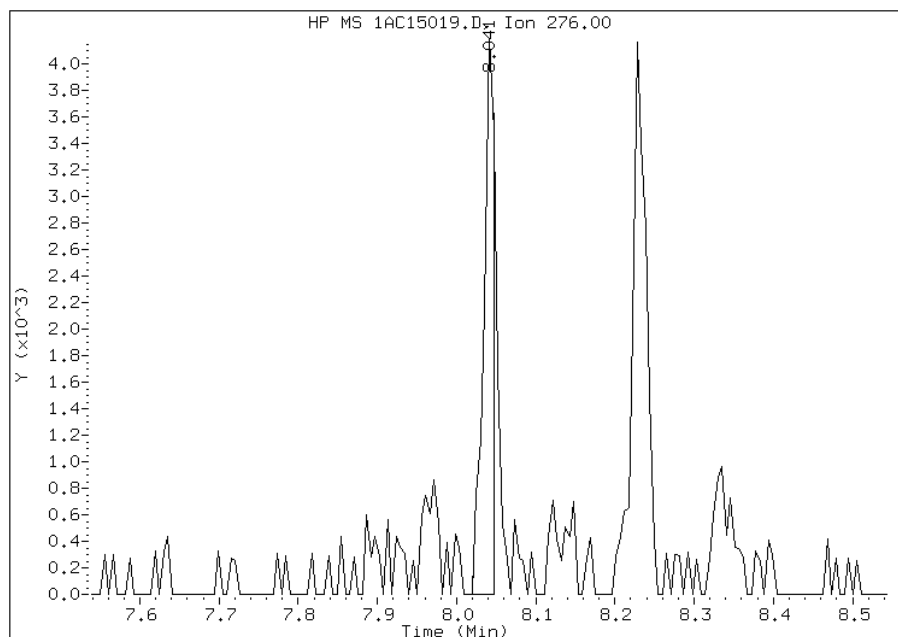
Processing Integration Results

RT: 8.04
Response: 4592
Amount: 1
Conc: 202



Manual Integration Results

RT: 8.04
Response: 3776
Amount: 0
Conc: 166



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:55
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0683B-CS-SP Lab Sample ID: 680-88118-8
 Matrix: Solid Lab File ID: 1AC15020.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 12:20
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.47(g) Date Analyzed: 03/15/2013 17:33
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 20.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	28	J	49	6.1
120-12-7	Anthracene	30		10	5.2
56-55-3	Benzo[a]anthracene	98		9.8	4.8
50-32-8	Benzo[a]pyrene	62		13	6.4
205-99-2	Benzo[b]fluoranthene	190		15	7.5
191-24-2	Benzo[g,h,i]perylene	70		25	5.4
207-08-9	Benzo[k]fluoranthene	36		9.8	4.4
218-01-9	Chrysene	120		11	5.5
53-70-3	Dibenz(a,h)anthracene	22	J	25	5.0
206-44-0	Fluoranthene	110		25	4.9
86-73-7	Fluorene	25	U	25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	56		25	8.7
90-12-0	1-Methylnaphthalene	38	J	49	5.4
91-57-6	2-Methylnaphthalene	130		49	8.7
91-20-3	Naphthalene	76		49	5.4
85-01-8	Phenanthrene	110		9.8	4.8
129-00-0	Pyrene	100		25	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15020.D
 Lab Smp Id: 680-88118-A-8-A Client Smp ID: CV0683B-CS-SP
 Inj Date : 15-MAR-2013 17:33
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-8-a
 Misc Info : 680-88118-A-8-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.470	Weight Extracted
M	20.935	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.309	2.303	(1.000)	411063	40.0000		
* 6 Acenaphthene-d10	164		3.329	3.324	(1.000)	281432	40.0000		
* 10 Phenanthrene-d10	188		4.253	4.248	(1.000)	407116	40.0000		
\$ 14 o-Terphenyl	230		4.526	4.526	(1.064)	32654	6.15867	503.5120	
* 18 Chrysene-d12	240		6.251	6.246	(1.000)	282180	40.0000		
* 23 Perylene-d12	264		7.346	7.330	(1.000)	330703	40.0000		
2 Naphthalene	128		2.314	2.314	(1.002)	8879	0.93493	76.4369	
3 2-Methylnaphthalene	141		2.720	2.715	(1.178)	3783	1.53021	125.1049	
4 1-Methylnaphthalene	142		2.773	2.773	(1.201)	2507	0.45908	37.5327	
5 Acenaphthylene	152		3.243	3.238	(0.974)	1734	0.33812	27.6438	
11 Phenanthrene	178		4.264	4.264	(1.002)	14156	1.37194	112.1651	
12 Anthracene	178		4.301	4.296	(1.011)	3626	0.36242	29.6305	
13 Carbazole	167		4.461	4.456	(1.049)	2595	0.29593	24.1940	
15 Fluoranthene	202		5.119	5.113	(1.203)	13433	1.31702	107.6754	

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)	
-----	----	----	-----	-----	-----	-----	-----	
16 Pyrene	202	5.284	5.279	(0.845)	10321	1.27565	104.2931	
17 Benzo(a)anthracene	228	6.246	6.235	(0.999)	8419	1.19722	97.8808	
19 Chrysene	228	6.262	6.262	(1.002)	10979	1.50221	122.8156	
20 Benzo(b)fluoranthene	252	7.068	7.052	(0.962)	10086	2.30952	188.8190(M)	
21 Benzo(k)fluoranthene	252	7.079	7.074	(0.964)	3937	0.44135	36.0830(QM)	
22 Benzo(a)pyrene	252	7.287	7.282	(0.992)	5893	0.75932	62.0792	
24 Indeno(1,2,3-cd)pyrene	276	8.041	8.035	(1.095)	4785	0.68331	55.8648(M)	
25 Dibenzo(a,h)anthracene	278	8.062	8.045	(1.097)	1900	0.27376	22.3818(MH)	
26 Benzo(g,h,i)perylene	276	8.238	8.222	(1.121)	6018	0.85375	69.7993(M)	

QC Flag Legend

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

Data File: 1AC15020.D

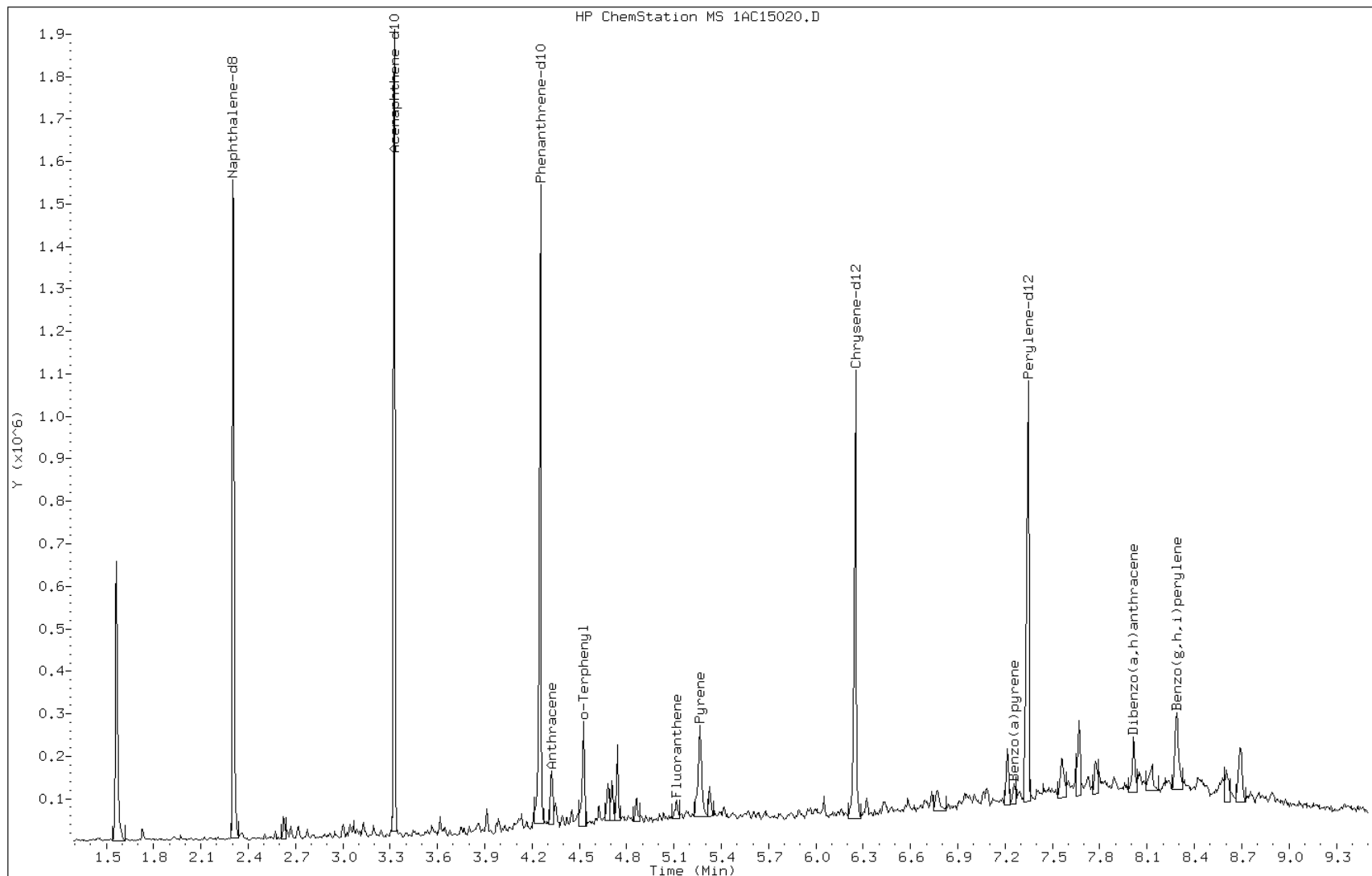
Date: 15-MAR-2013 17:33

Client ID: CV0683B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-8-a

Operator: SCC



Data File: 1AC15020.D

Date: 15-MAR-2013 17:33

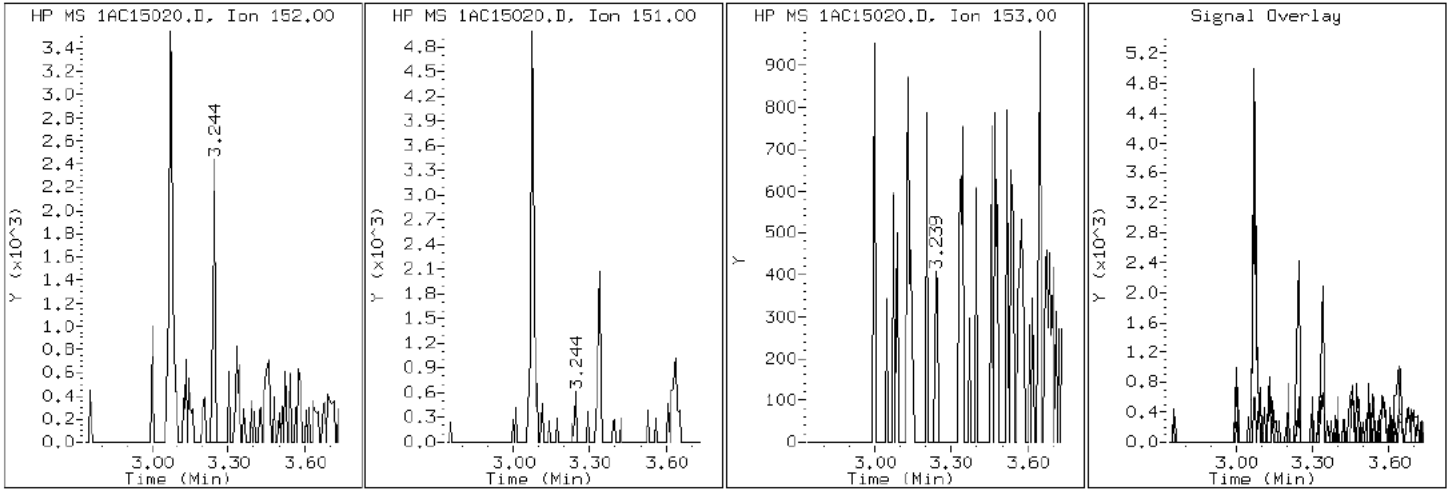
Client ID: CV0683B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-8-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15020.D

Date: 15-MAR-2013 17:33

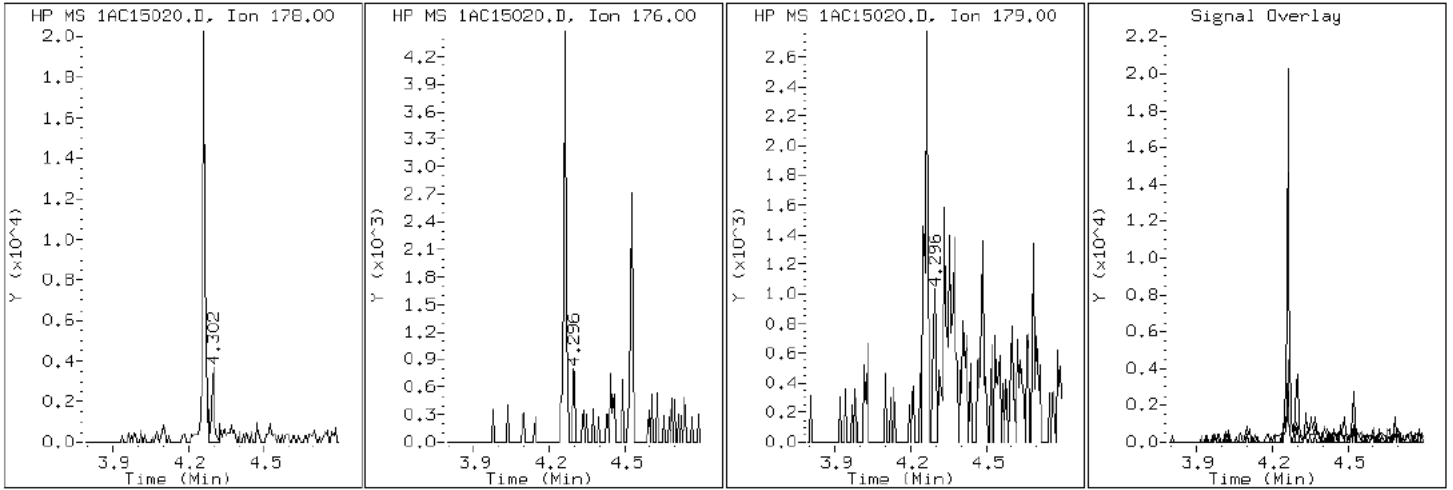
Client ID: CV0683B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-8-a

Operator: SCC

12 Anthracene



Data File: 1AC15020.D

Date: 15-MAR-2013 17:33

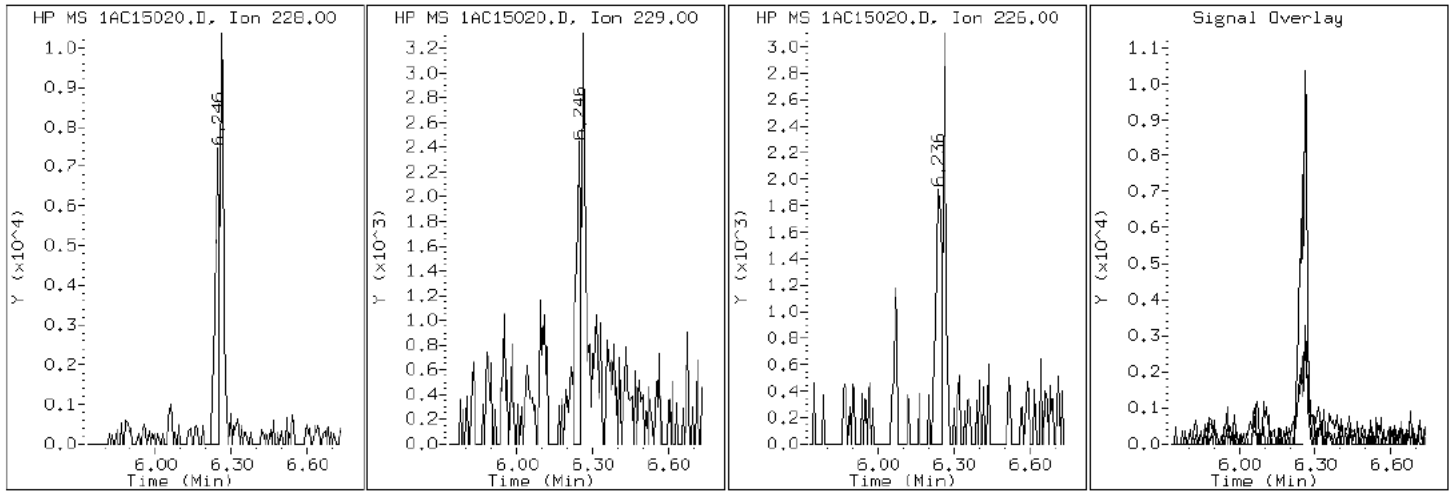
Client ID: CV0683B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-8-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15020.D

Date: 15-MAR-2013 17:33

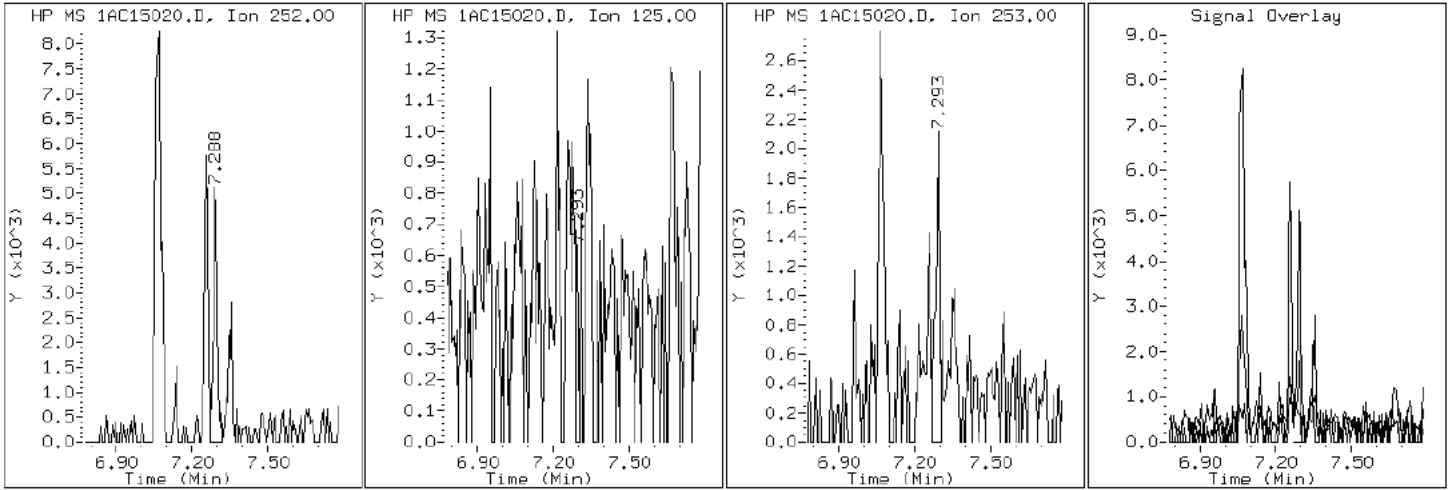
Client ID: CV0683B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-8-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15020.D

Date: 15-MAR-2013 17:33

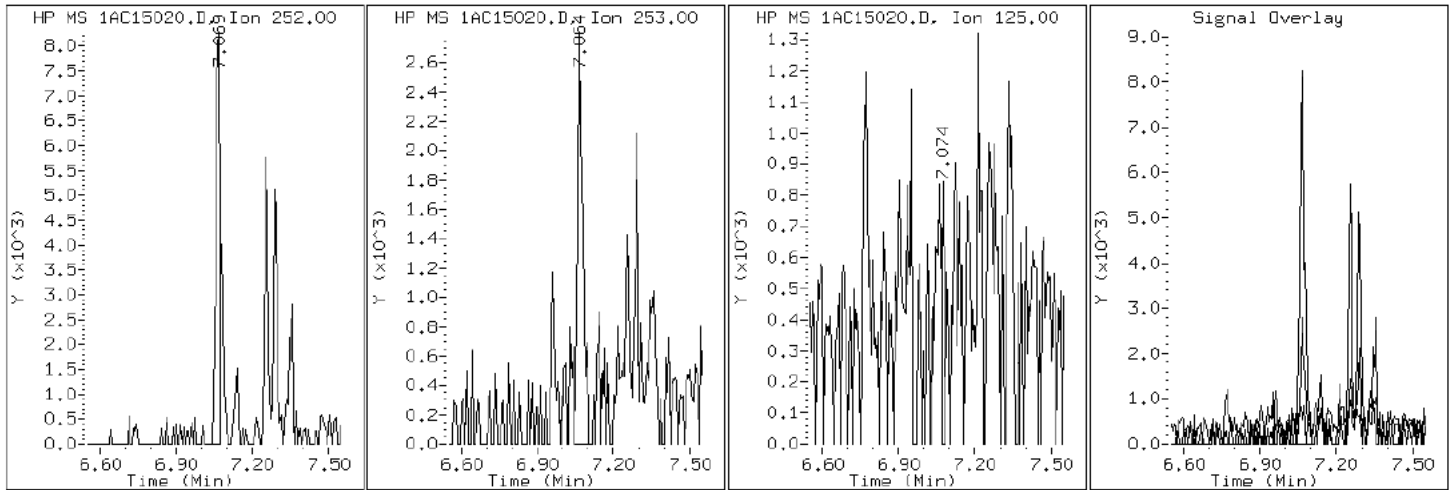
Client ID: CV0683B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-8-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15020.D

Date: 15-MAR-2013 17:33

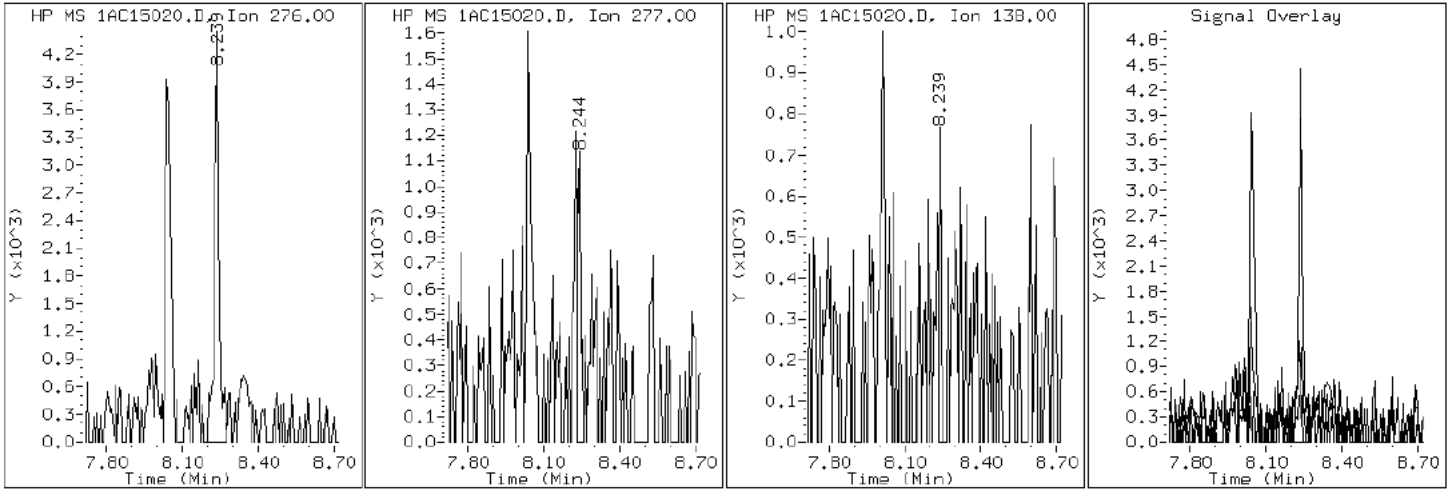
Client ID: CV0683B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-8-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15020.D

Date: 15-MAR-2013 17:33

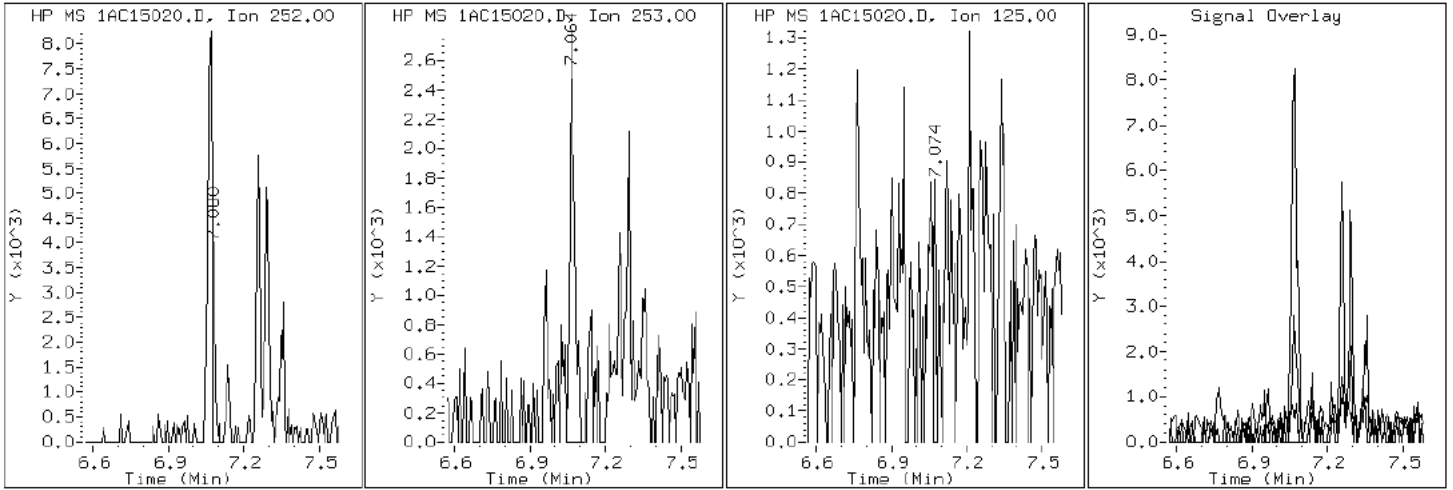
Client ID: CV0683B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-8-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15020.D

Date: 15-MAR-2013 17:33

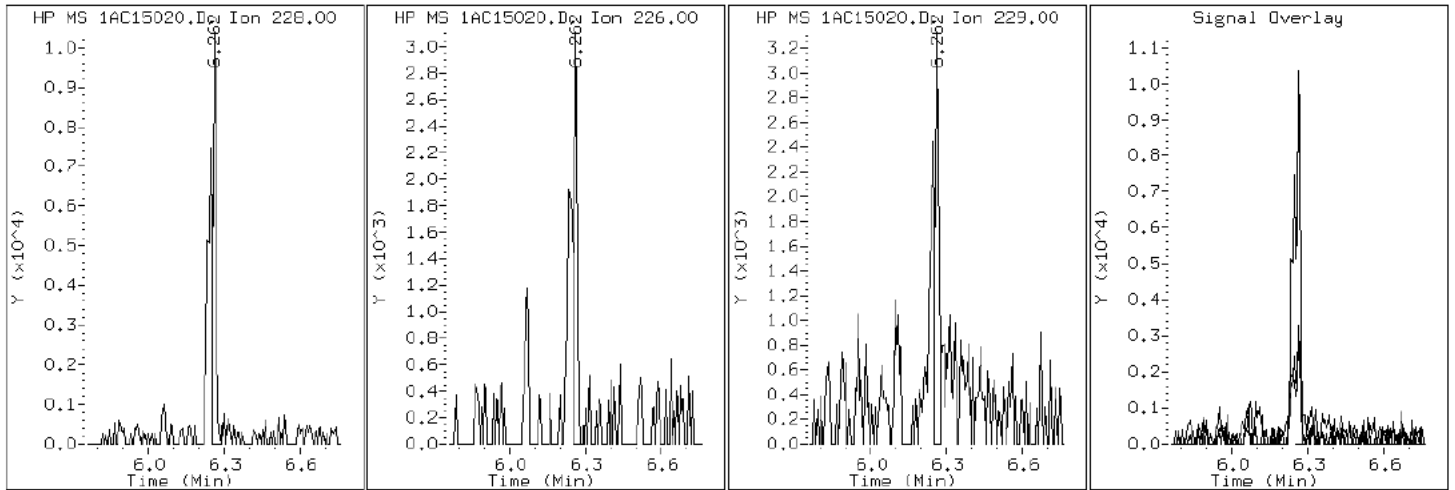
Client ID: CV0683B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-8-a

Operator: SCC

19 Chrysene



Data File: 1AC15020.D

Date: 15-MAR-2013 17:33

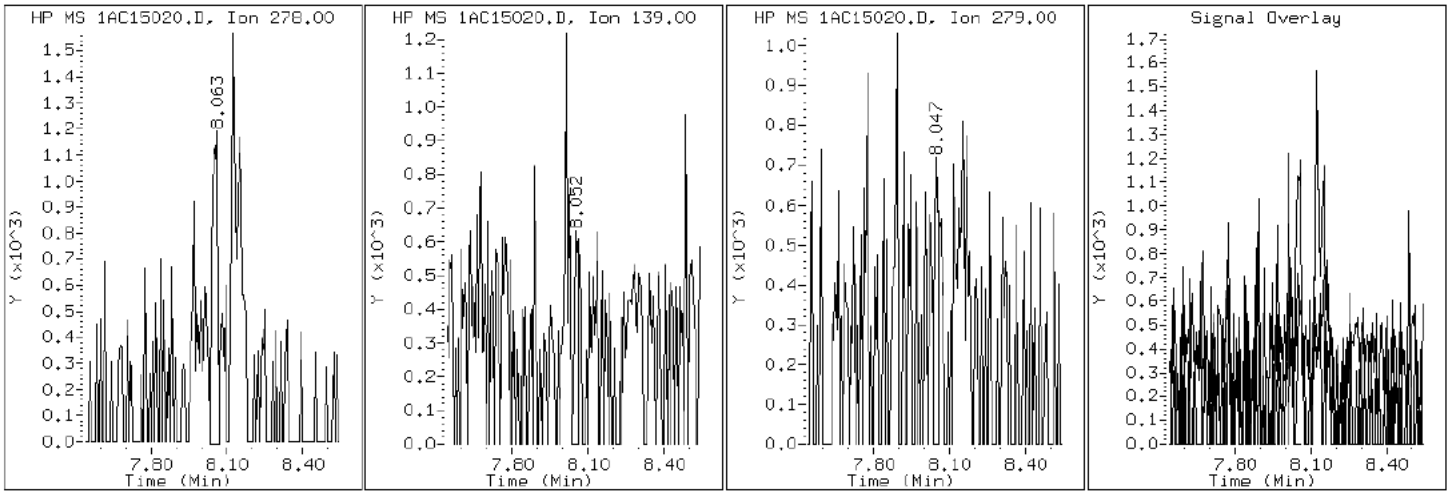
Client ID: CV0683B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-8-a

Operator: SCC

25 Dibenzo (a,h)anthracene



Data File: 1AC15020.D

Date: 15-MAR-2013 17:33

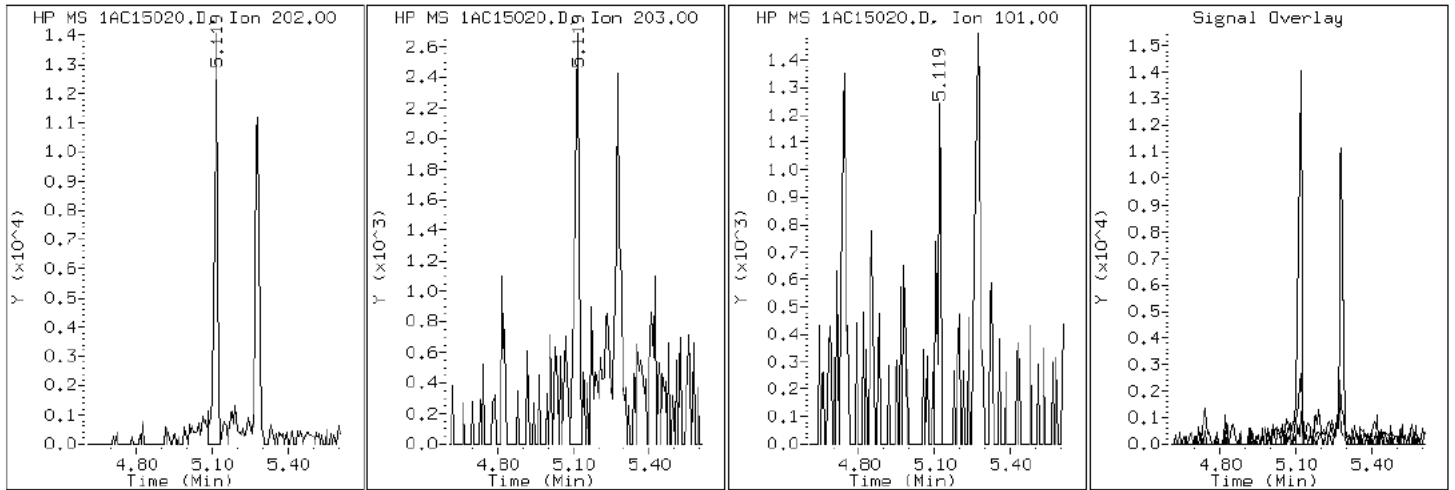
Client ID: CV0683B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-8-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15020.D

Date: 15-MAR-2013 17:33

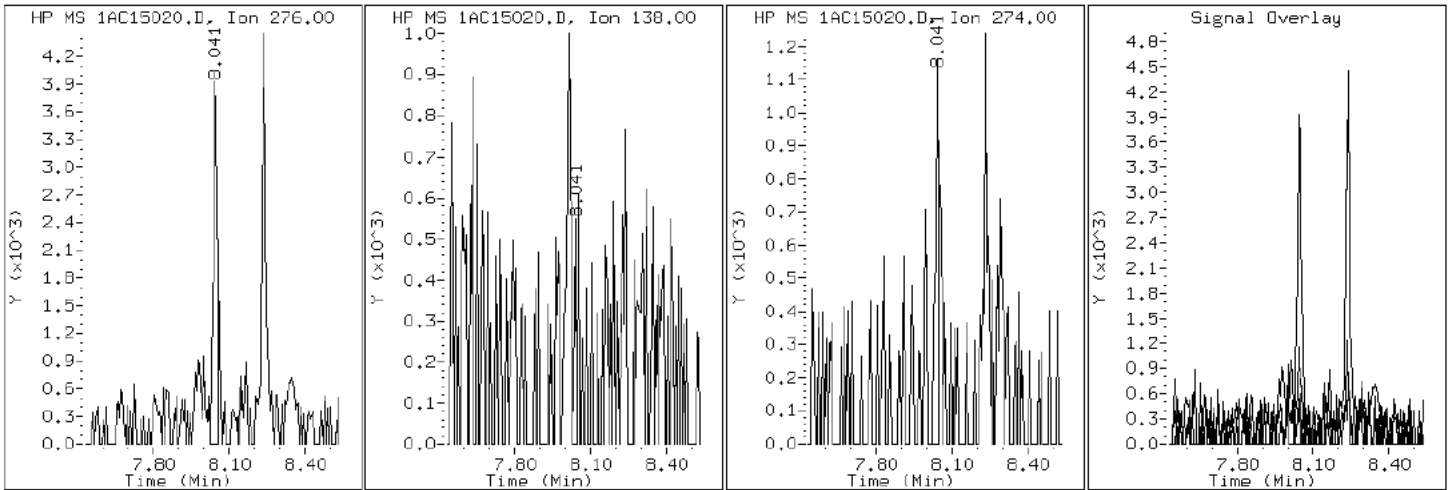
Client ID: CV0683B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-8-a

Operator: SCC

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



Data File: 1AC15020.D

Date: 15-MAR-2013 17:33

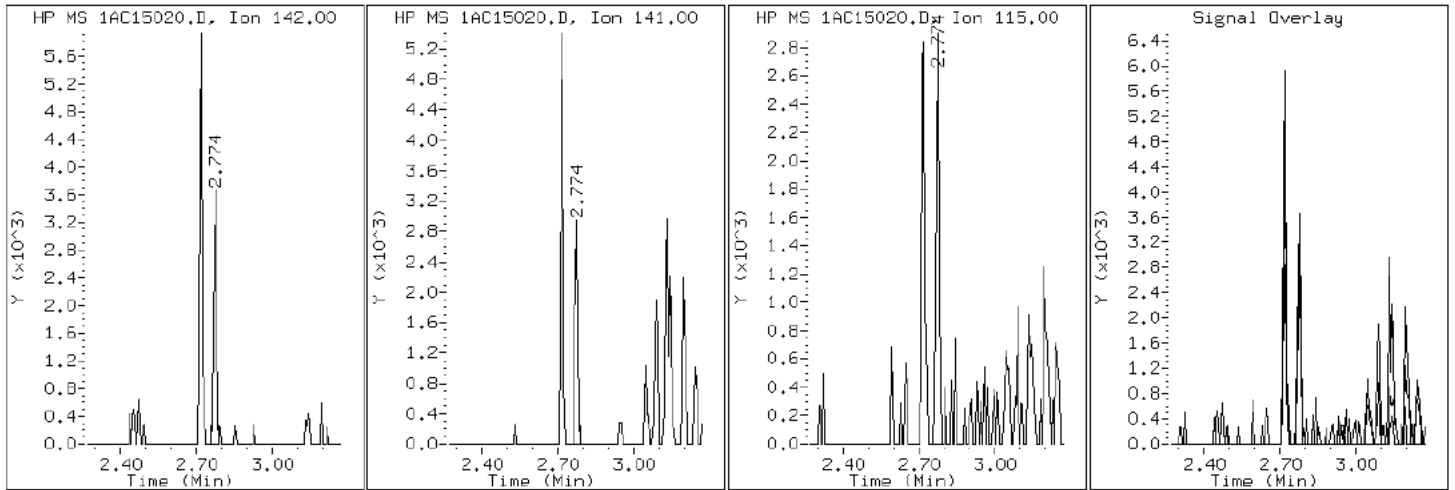
Client ID: CV0683B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-8-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15020.D

Date: 15-MAR-2013 17:33

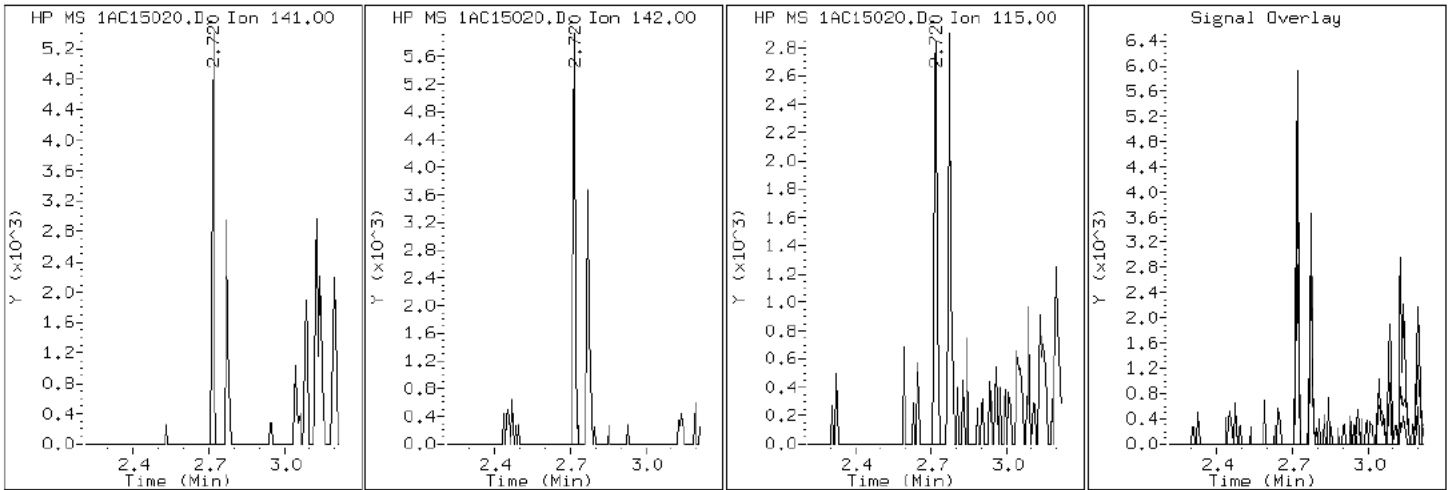
Client ID: CV0683B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-8-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15020.D

Date: 15-MAR-2013 17:33

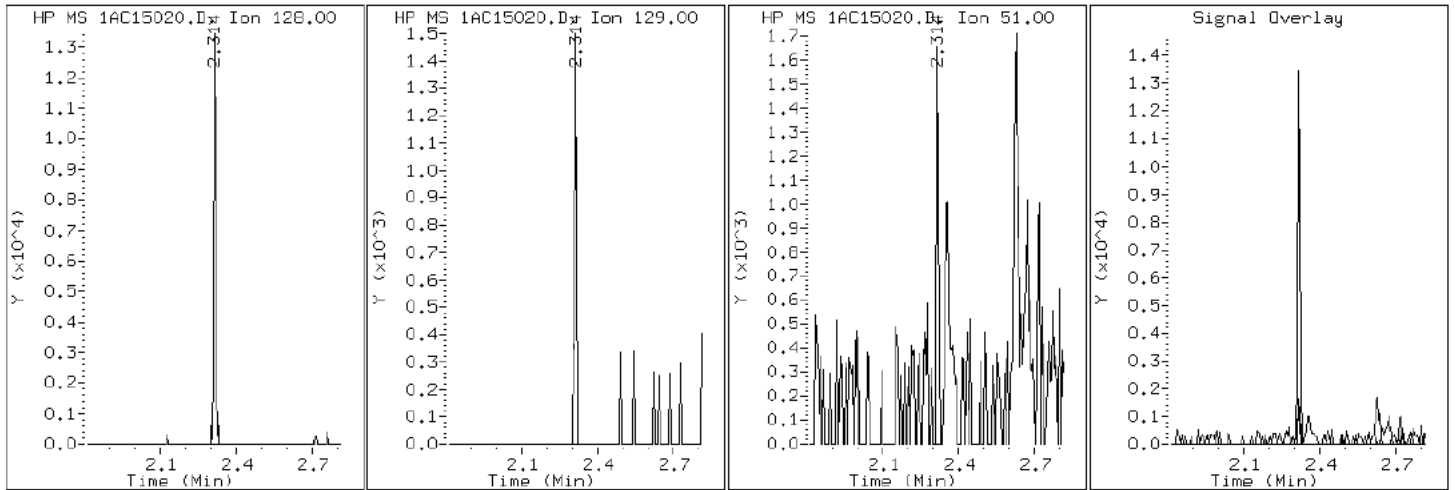
Client ID: CV0683B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-8-a

Operator: SCC

2 Naphthalene



Data File: 1AC15020.D

Date: 15-MAR-2013 17:33

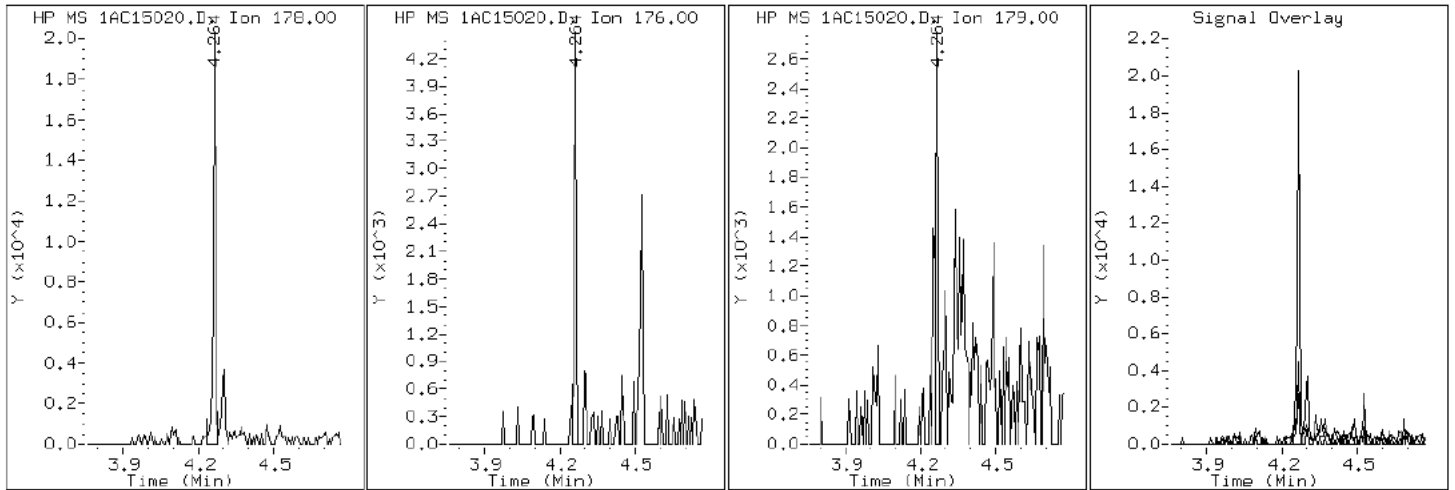
Client ID: CV0683B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-8-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15020.D

Date: 15-MAR-2013 17:33

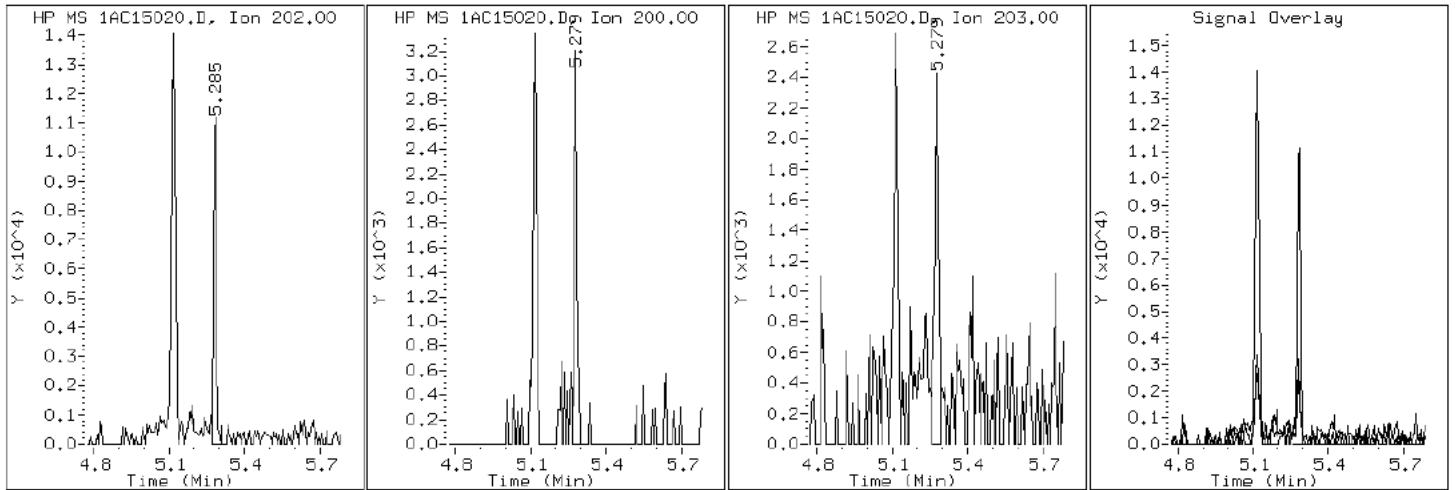
Client ID: CV0683B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-8-a

Operator: SCC

16 Pyrene

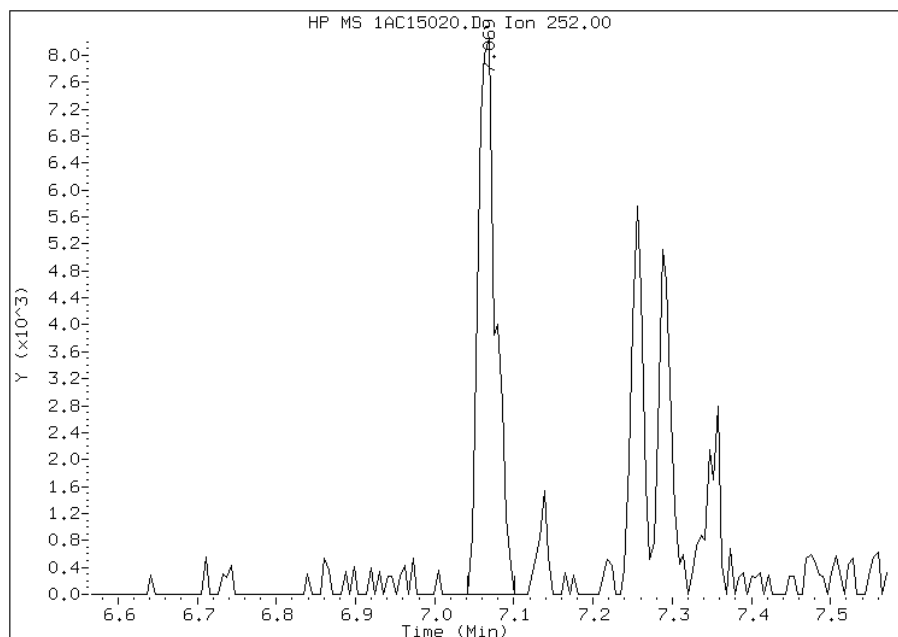


Manual Integration Report

Data File: 1AC15020.D
Inj. Date and Time: 15-MAR-2013 17:33
Instrument ID: BSMA5973.i
Client ID: CV0683B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

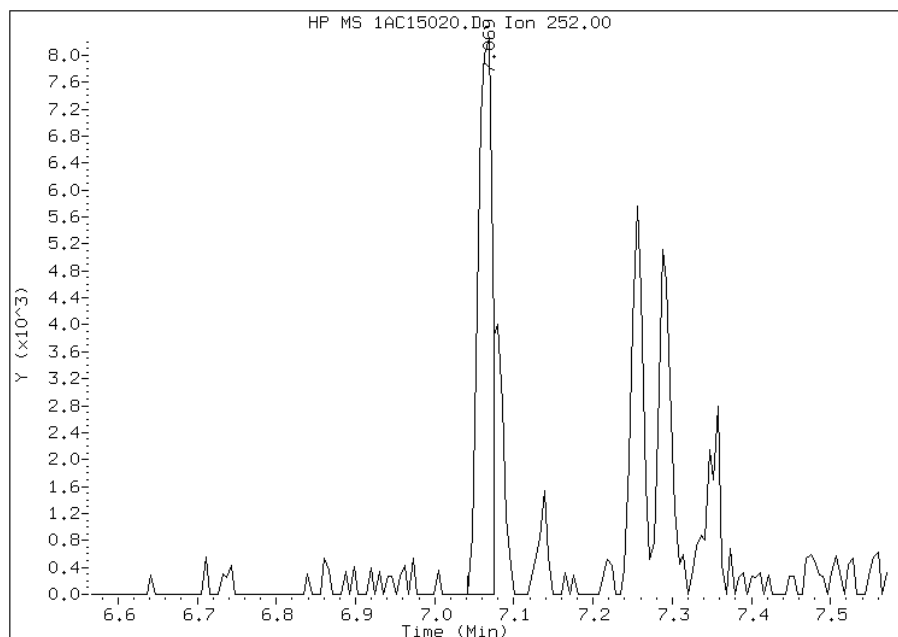
Processing Integration Results

RT: 7.07
Response: 12774
Amount: 3
Conc: 213



Manual Integration Results

RT: 7.07
Response: 10086
Amount: 2
Conc: 189



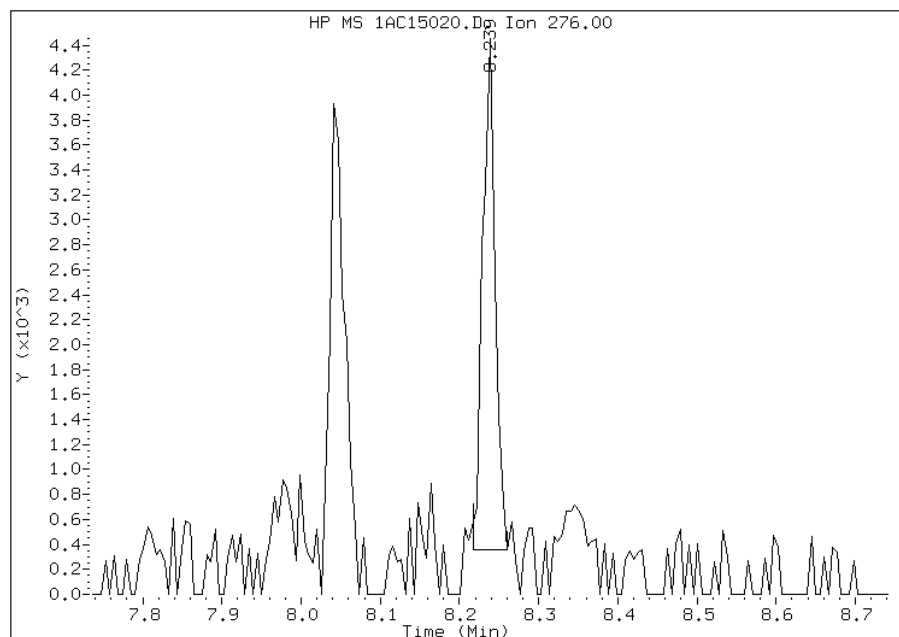
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:56
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15020.D
Inj. Date and Time: 15-MAR-2013 17:33
Instrument ID: BSMA5973.i
Client ID: CV0683B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/20/2013

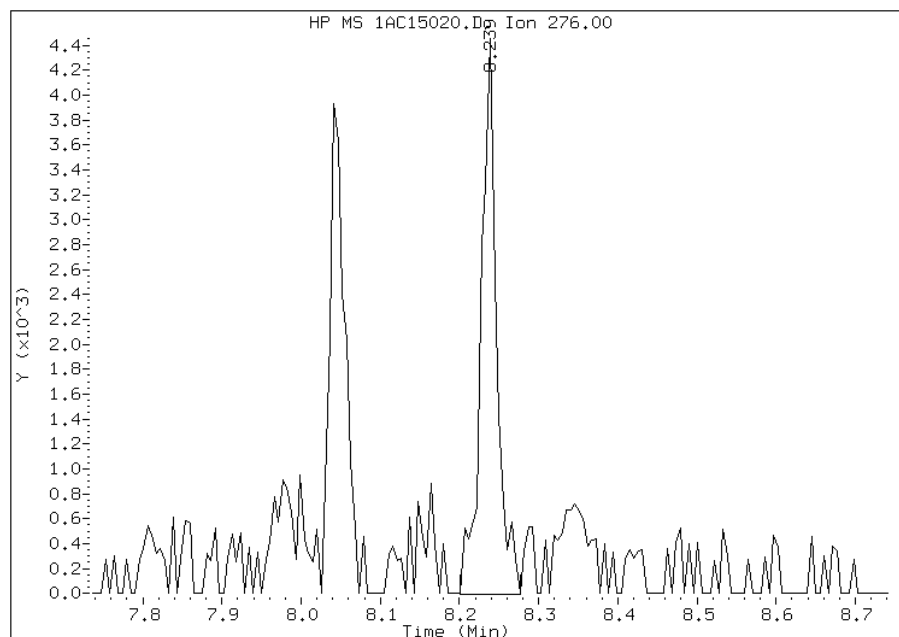
Processing Integration Results

RT: 8.24
Response: 4383
Amount: 1
Conc: 51



Manual Integration Results

RT: 8.24
Response: 6018
Amount: 1
Conc: 70



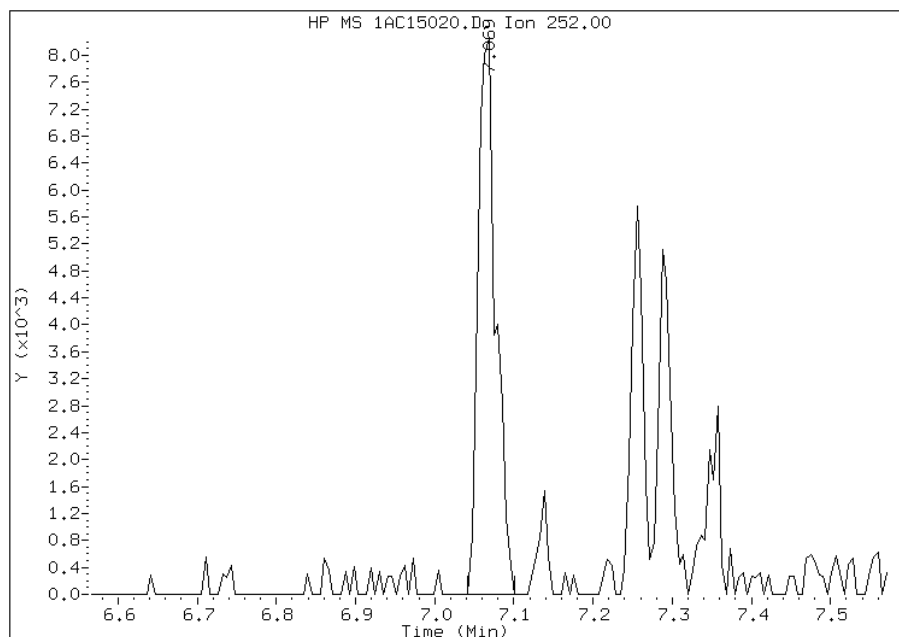
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15020.D
Inj. Date and Time: 15-MAR-2013 17:33
Instrument ID: BSMA5973.i
Client ID: CV0683B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

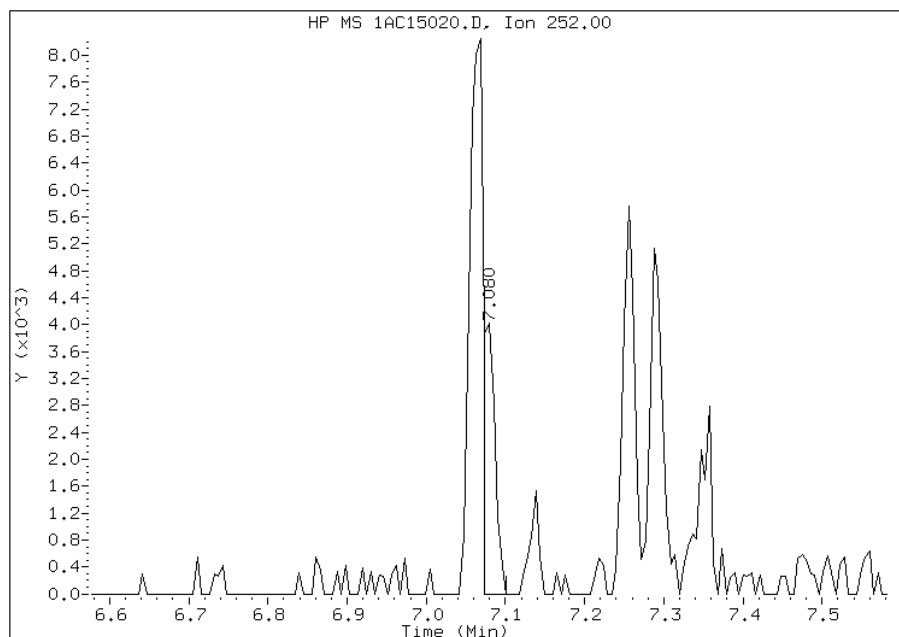
Processing Integration Results

RT: 7.07
Response: 12774
Amount: 1
Conc: 117



Manual Integration Results

RT: 7.08
Response: 3937
Amount: 0
Conc: 36



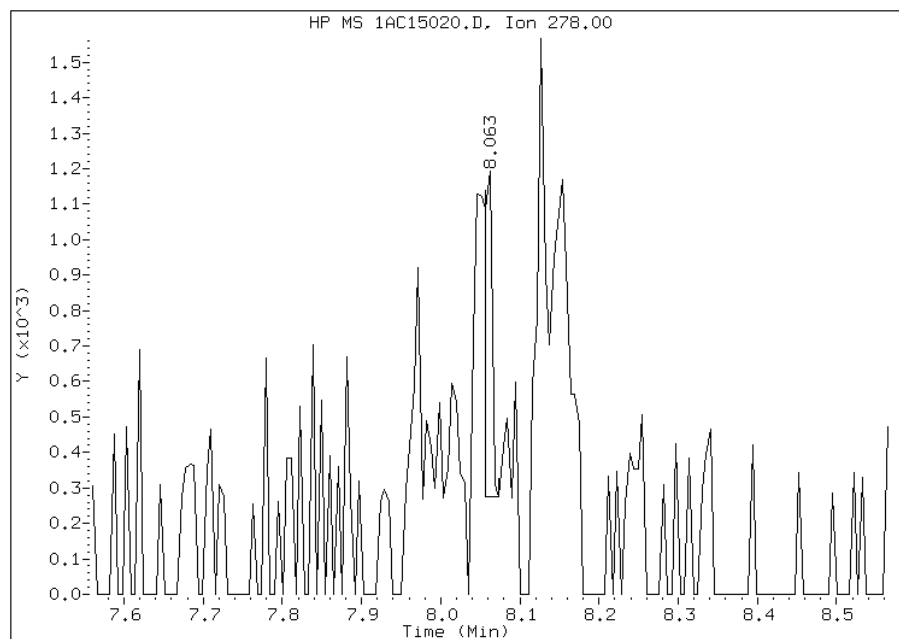
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:56
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15020.D
Inj. Date and Time: 15-MAR-2013 17:33
Instrument ID: BSMA5973.i
Client ID: CV0683B-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/20/2013

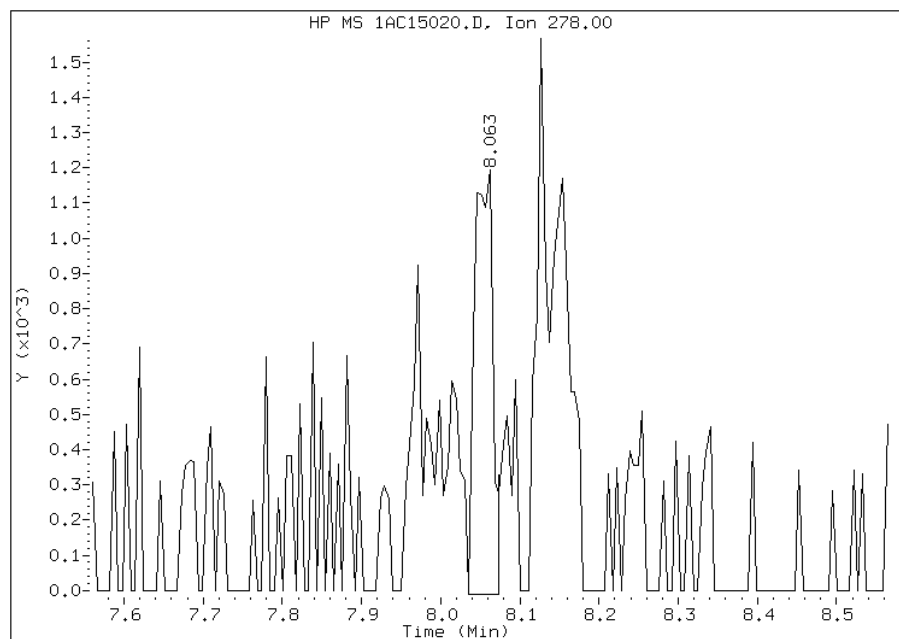
Processing Integration Results

RT: 8.06
Response: 563
Amount: 0
Conc: 7



Manual Integration Results

RT: 8.06
Response: 1900
Amount: 0
Conc: 22



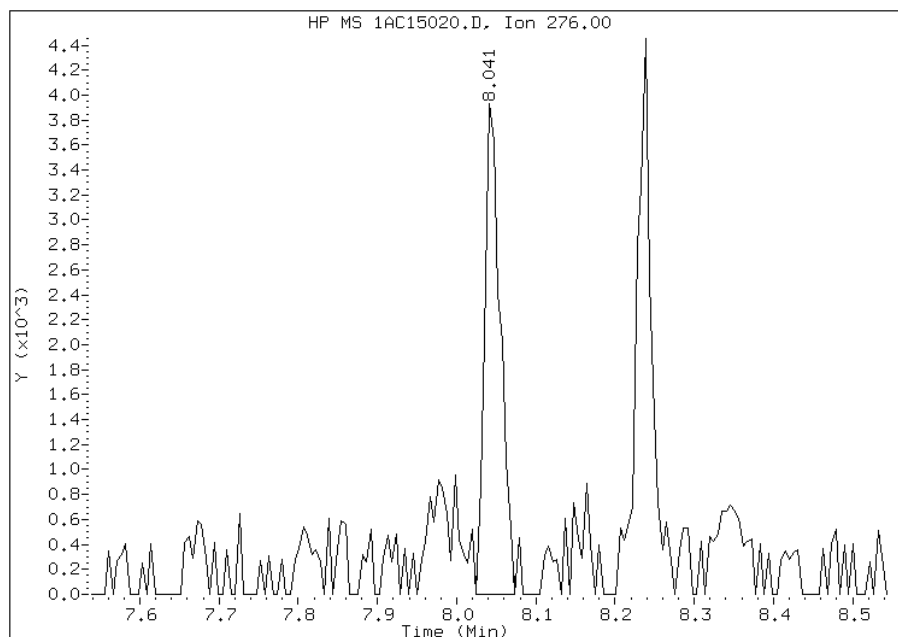
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15020.D
Inj. Date and Time: 15-MAR-2013 17:33
Instrument ID: BSMA5973.i
Client ID: CV0683B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

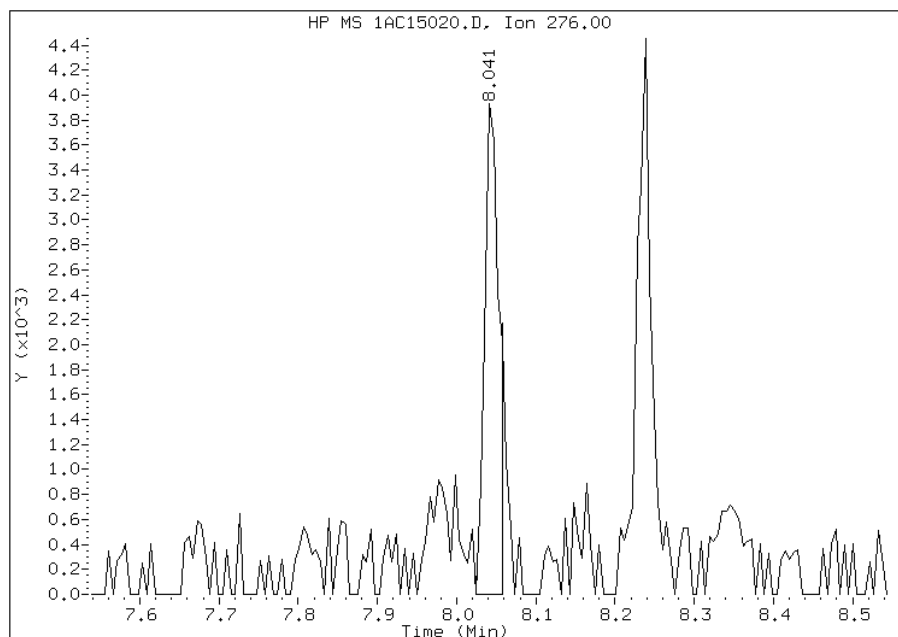
Processing Integration Results

RT: 8.04
Response: 5298
Amount: 1
Conc: 62



Manual Integration Results

RT: 8.04
Response: 4785
Amount: 1
Conc: 56



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0683C-GS-SP Lab Sample ID: 680-88118-9
 Matrix: Solid Lab File ID: 1AC15021.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 12:27
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.18(g) Date Analyzed: 03/15/2013 17:49
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 18.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	190	J	490	97
208-96-8	Acenaphthylene	180	J	190	24
120-12-7	Anthracene	220		41	20
56-55-3	Benzo[a]anthracene	700		39	19
50-32-8	Benzo[a]pyrene	310		51	25
205-99-2	Benzo[b]fluoranthene	900		59	30
191-24-2	Benzo[g,h,i]perylene	410		97	21
207-08-9	Benzo[k]fluoranthene	300		39	18
218-01-9	Chrysene	790		44	22
53-70-3	Dibenz(a,h)anthracene	190		97	20
206-44-0	Fluoranthene	710		97	19
86-73-7	Fluorene	230		97	20
193-39-5	Indeno[1,2,3-cd]pyrene	310		97	35
90-12-0	1-Methylnaphthalene	540		190	21
91-57-6	2-Methylnaphthalene	840		190	35
91-20-3	Naphthalene	580		190	21
85-01-8	Phenanthrene	1100		39	19
129-00-0	Pyrene	790		97	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15021.D
 Lab Smp Id: 680-88118-A-9-A Client Smp ID: CV0683C-GS-SP
 Inj Date : 15-MAR-2013 17:49
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-9-a
 Misc Info : 680-88118-A-9-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15021.D
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 21
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.180	Weight Extracted
M	18.815	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.305	2.303	(1.000)	361339	40.0000	
* 6 Acenaphthene-d10	164		3.325	3.324	(1.000)	285040	40.0000	
* 10 Phenanthrene-d10	188		4.255	4.248	(1.000)	424416	40.0000	
\$ 14 o-Terphenyl	230		4.527	4.526	(1.064)	10559	1.99661	648.0482
* 18 Chrysene-d12	240		6.253	6.246	(1.000)	290665	40.0000	
* 23 Perylene-d12	264		7.353	7.330	(1.000)	375472	40.0000	
2 Naphthalene	128		2.316	2.314	(1.005)	14854	1.77932	577.5205
3 2-Methylnaphthalene	141		2.722	2.715	(1.181)	8804	2.59996	843.8795
4 1-Methylnaphthalene	142		2.775	2.773	(1.204)	7947	1.65550	537.3334
5 Acenaphthylene	152		3.245	3.238	(0.976)	3946	0.55500	180.1380
7 Acenaphthene	154		3.347	3.345	(1.006)	1027	0.59239	192.2752(Q)
9 Fluorene	166		3.651	3.649	(1.098)	3494	0.70661	229.3459(Q)
11 Phenanthrene	178		4.265	4.264	(1.002)	34987	3.25258	1055.7026
12 Anthracene	178		4.298	4.296	(1.010)	7165	0.68696	222.9693

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.458	4.456 (1.048)		3066	0.33539	108.8579
15 Fluoranthene	202	5.120	5.113 (1.203)		23185	2.18049	707.7310
16 Pyrene	202	5.280	5.279 (0.845)		20326	2.43891	791.6089
17 Benzo(a)anthracene	228	6.247	6.235 (0.999)		16634	2.14182	695.1794
19 Chrysene	228	6.269	6.262 (1.003)		18325	2.43414	790.0587
20 Benzo(b)fluoranthene	252	7.070	7.052 (0.961)		16337	2.78174	902.8815(M)
21 Benzo(k)fluoranthene	252	7.075	7.074 (0.962)		9354	0.92358	299.7688(QMH)
22 Benzo(a)pyrene	252	7.294	7.282 (0.992)		8371	0.95000	308.3463
24 Indeno(1,2,3-cd)pyrene	276	8.053	8.035 (1.095)		7559	0.95073	308.5837(M)
25 Dibenzo(a,h)anthracene	278	8.058	8.045 (1.096)		4724	0.59950	194.5823(M)
26 Benzo(g,h,i)perylene	276	8.245	8.222 (1.121)		10028	1.25300	406.6917

QC Flag Legend

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

Data File: 1AC15021.D

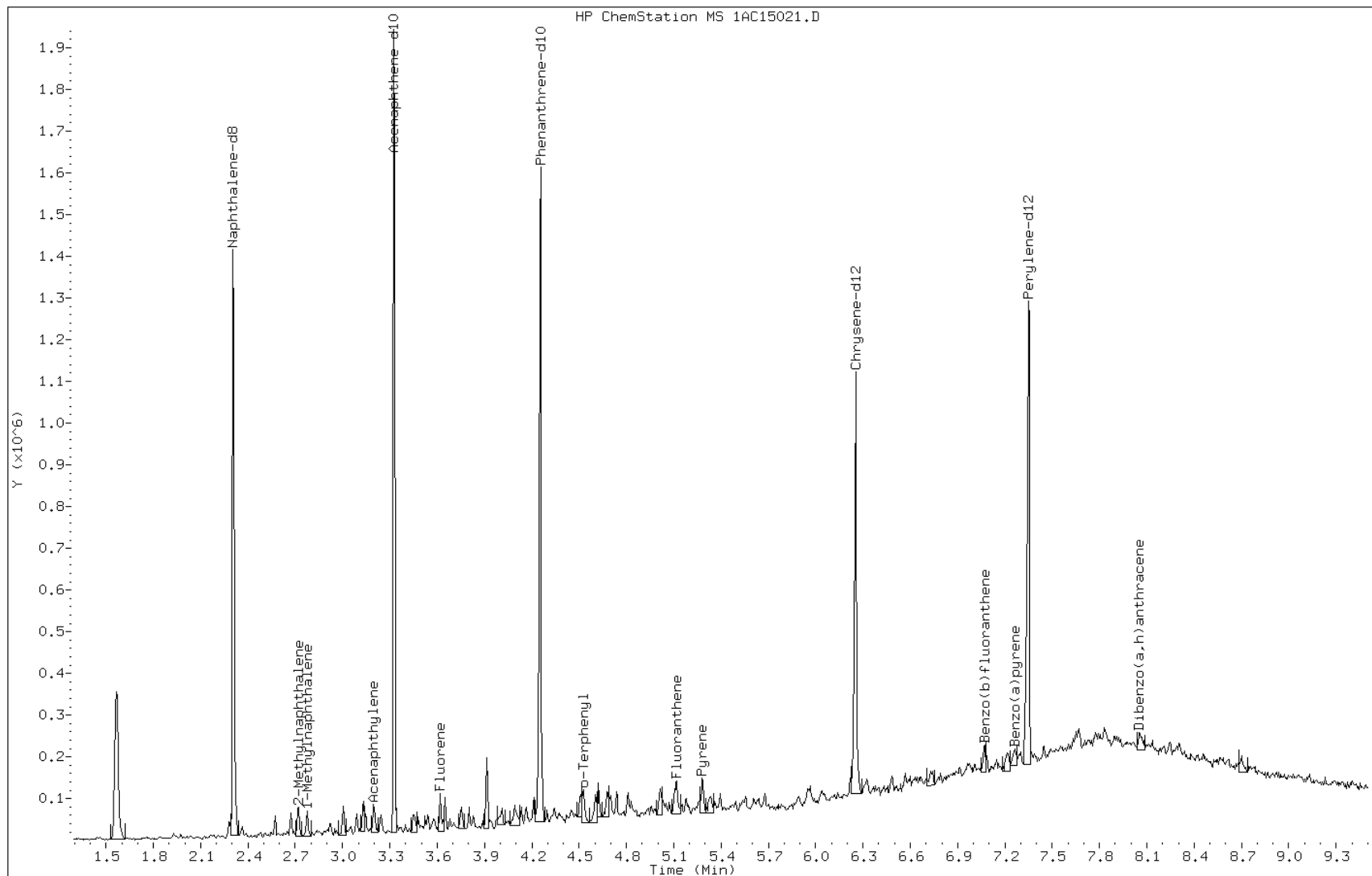
Date: 15-MAR-2013 17:49

Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

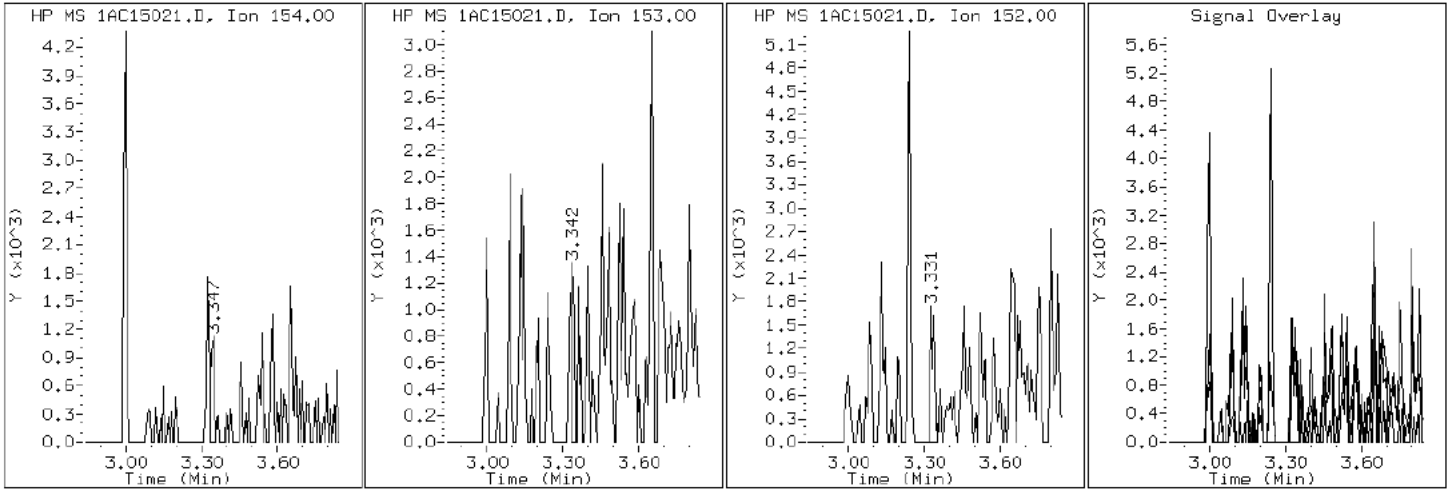
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

7 Acenaphthene



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

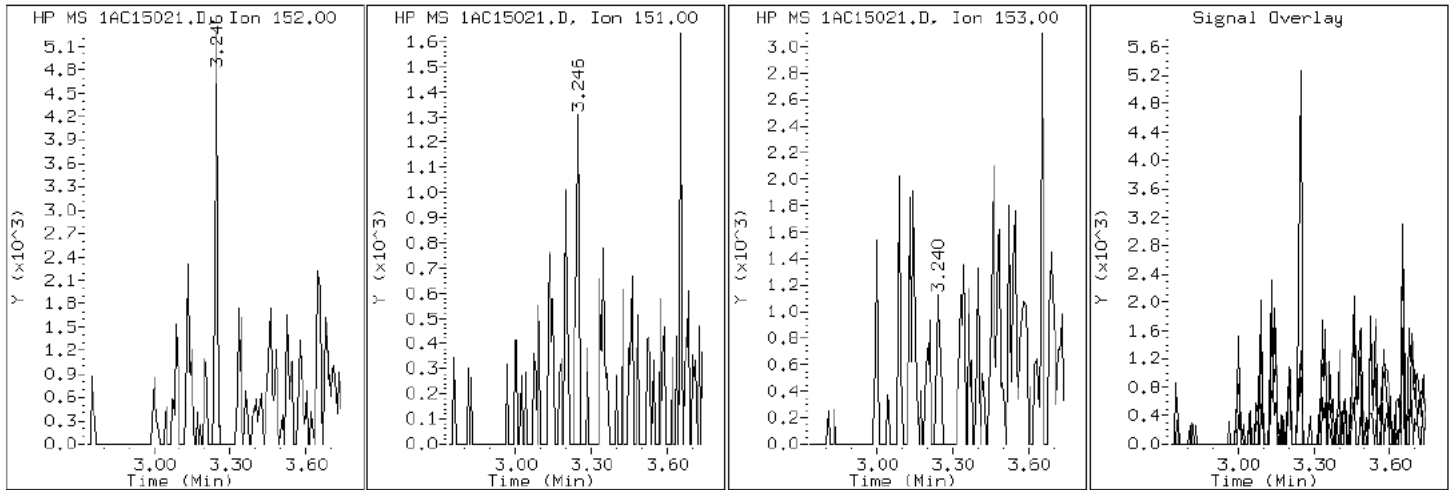
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

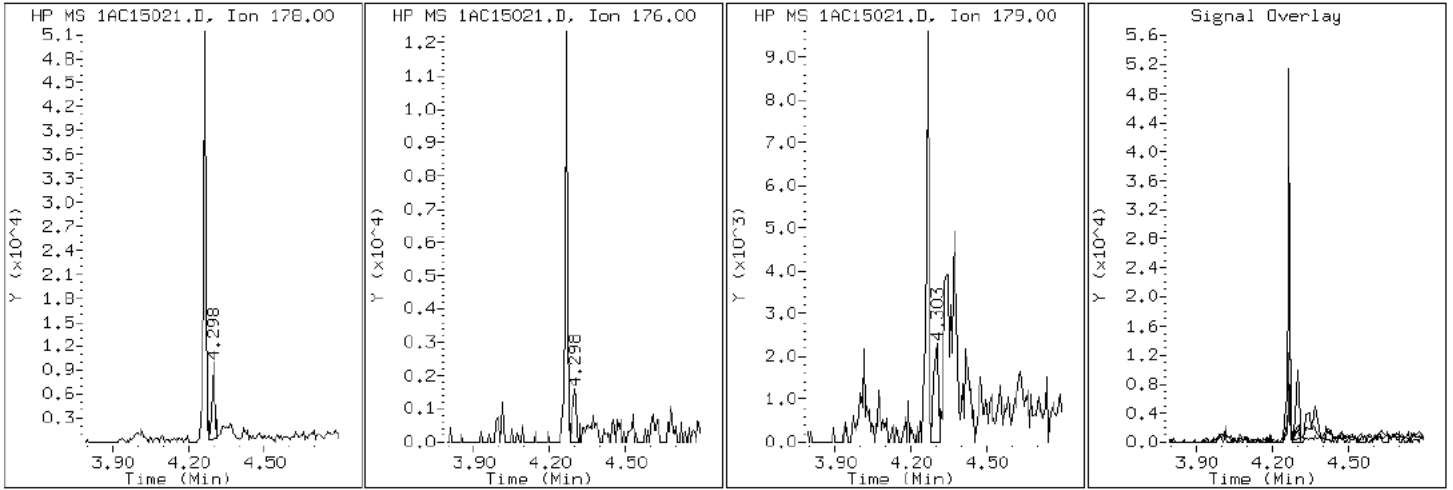
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

12 Anthracene



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

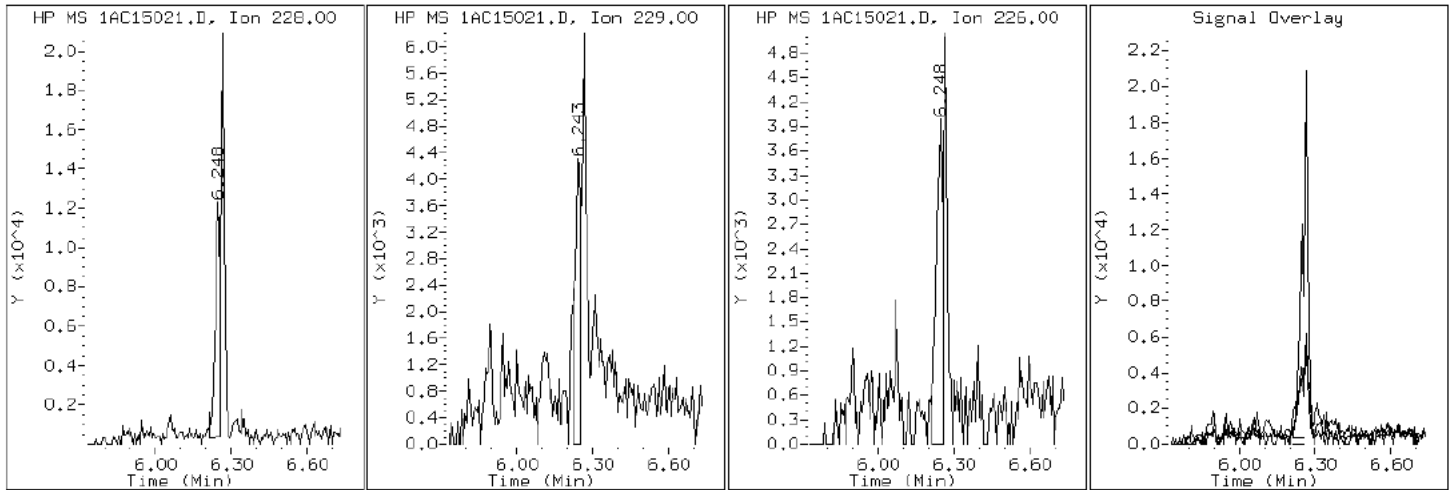
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

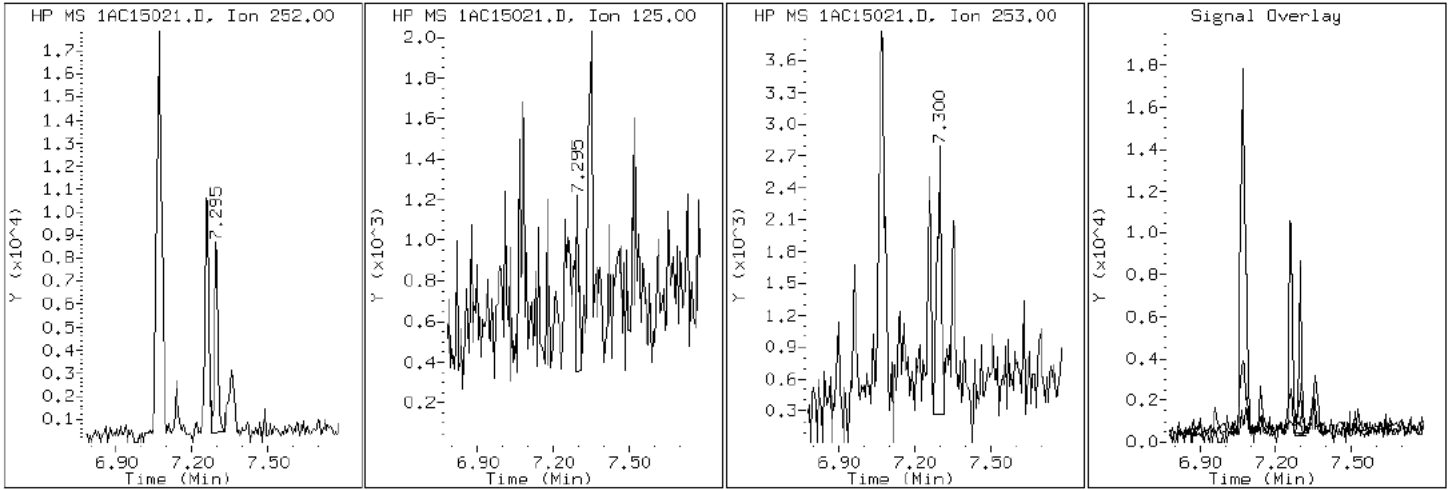
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

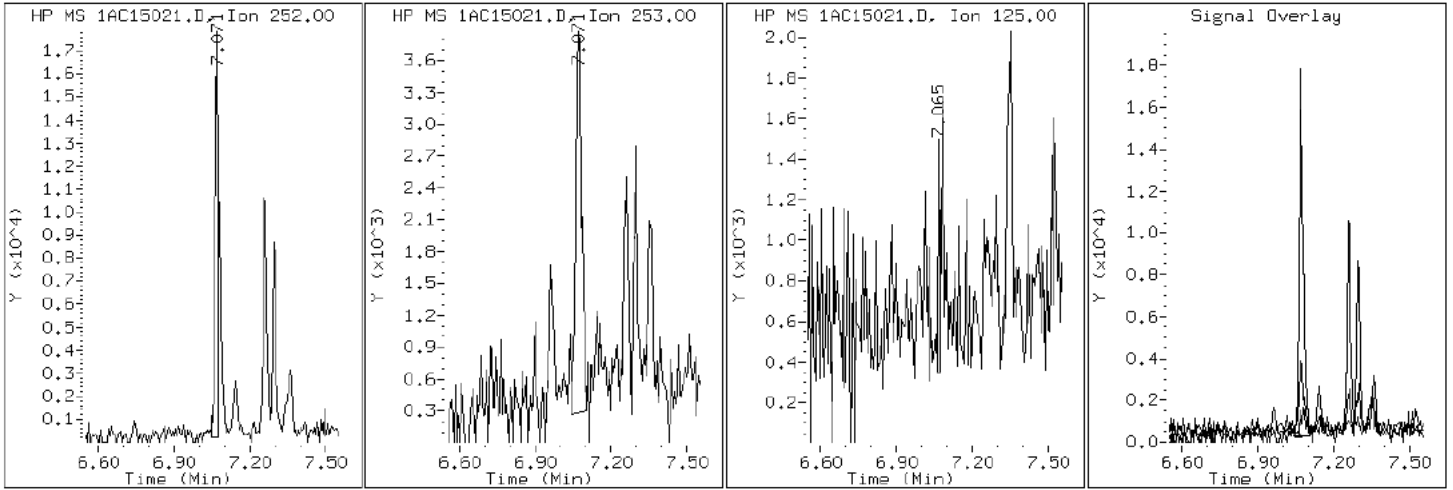
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

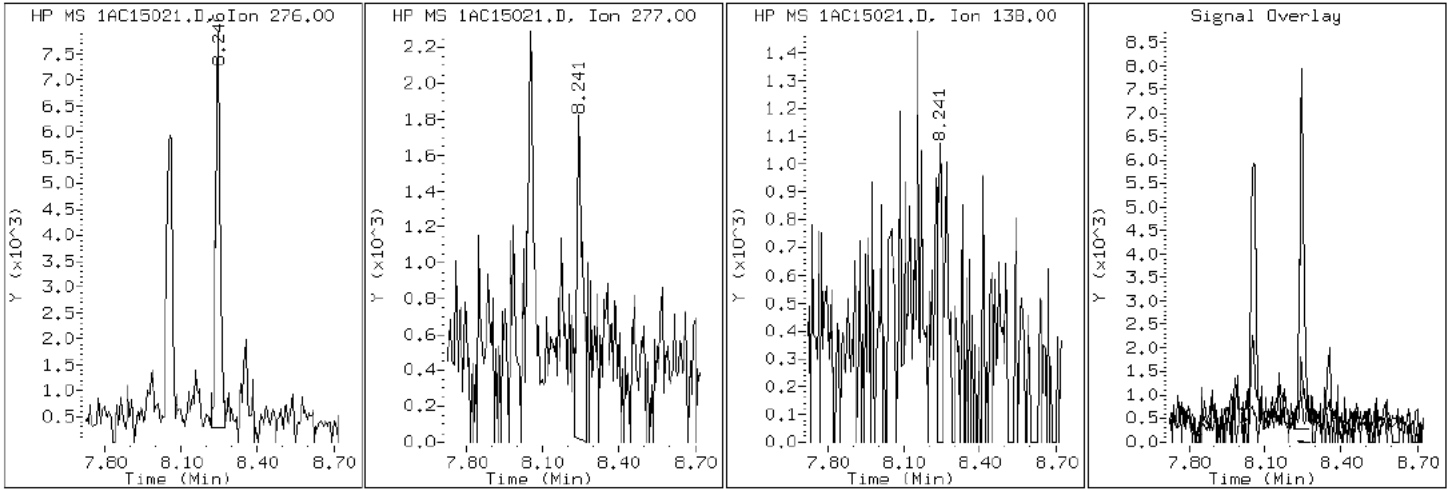
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

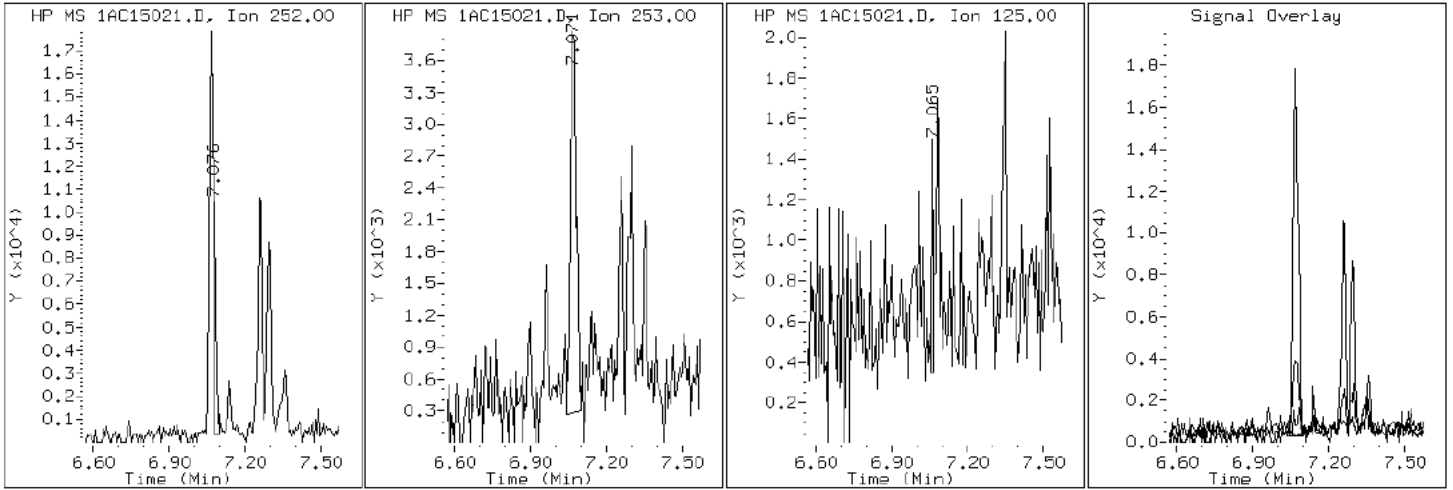
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

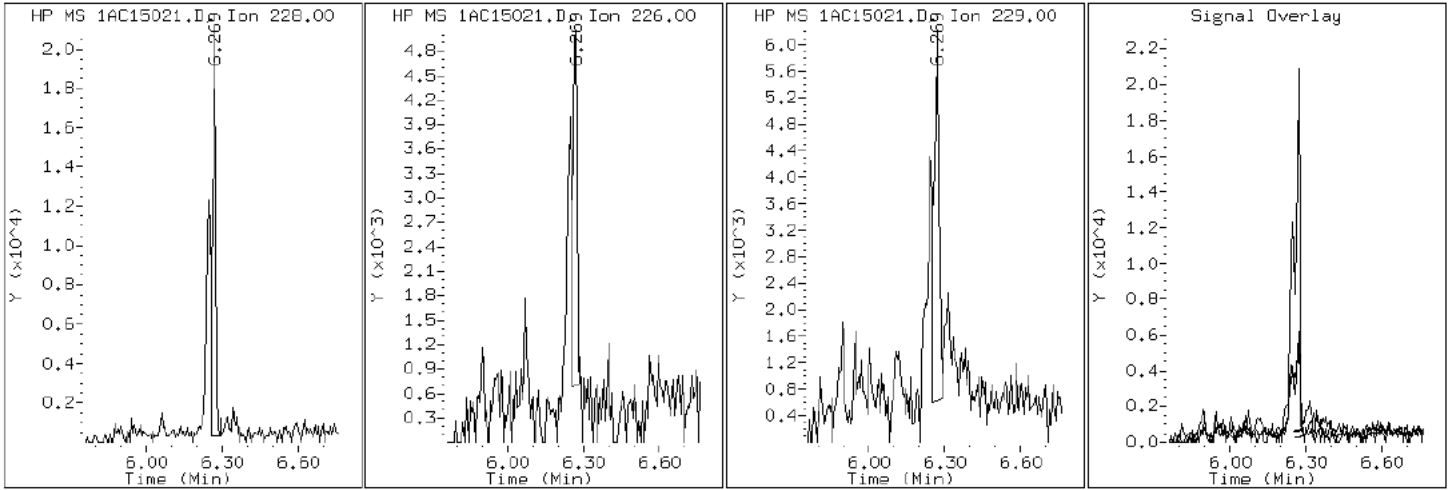
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

19 Chrysene



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

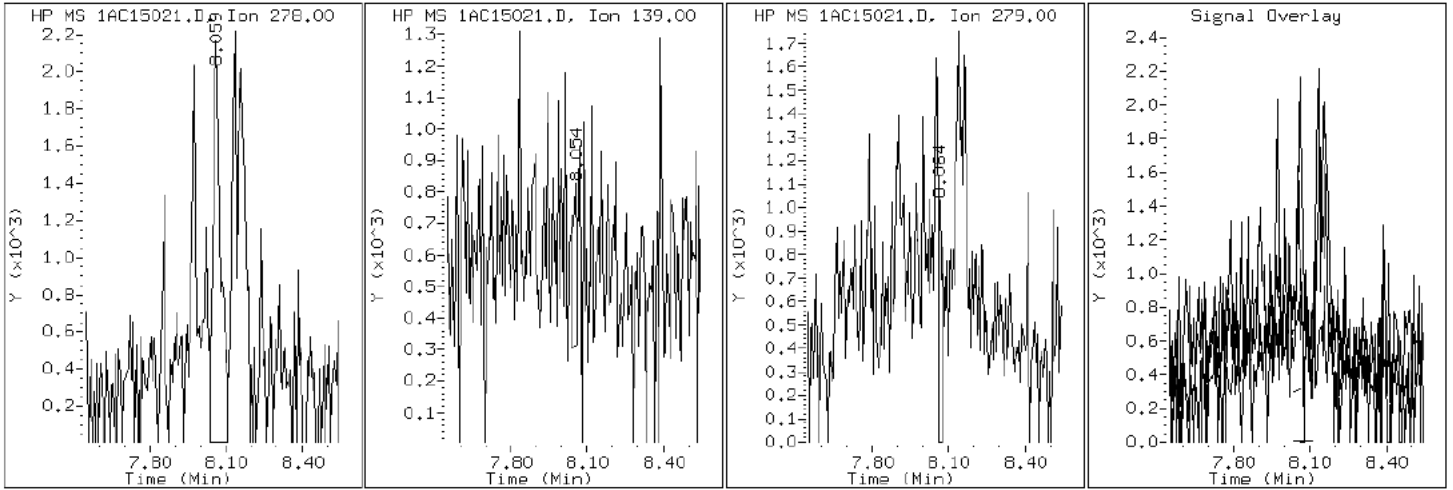
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

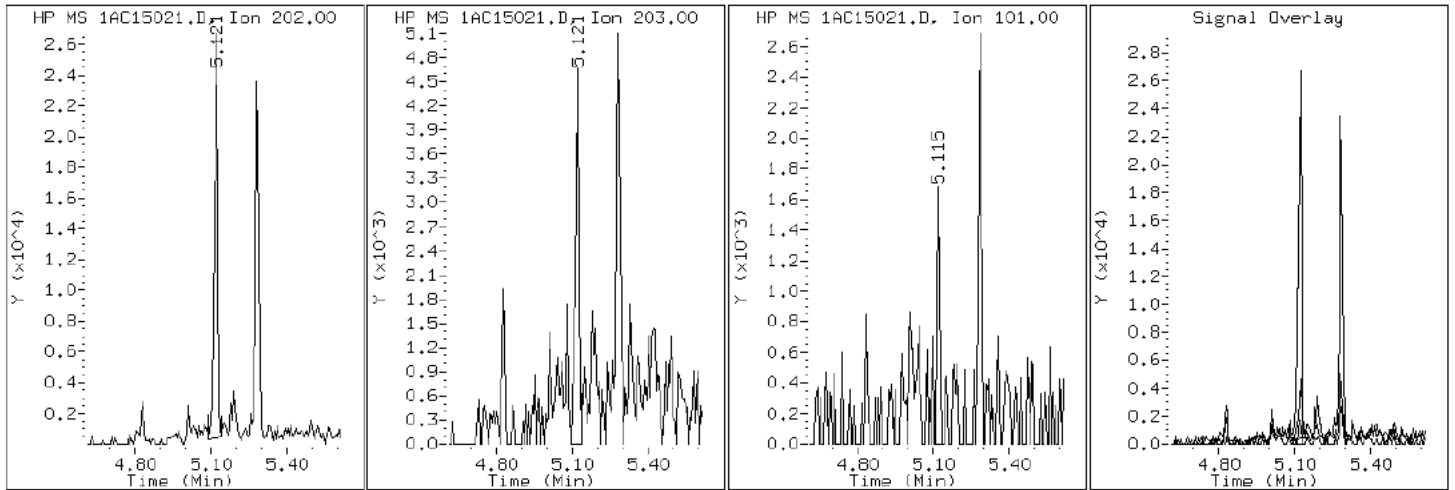
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

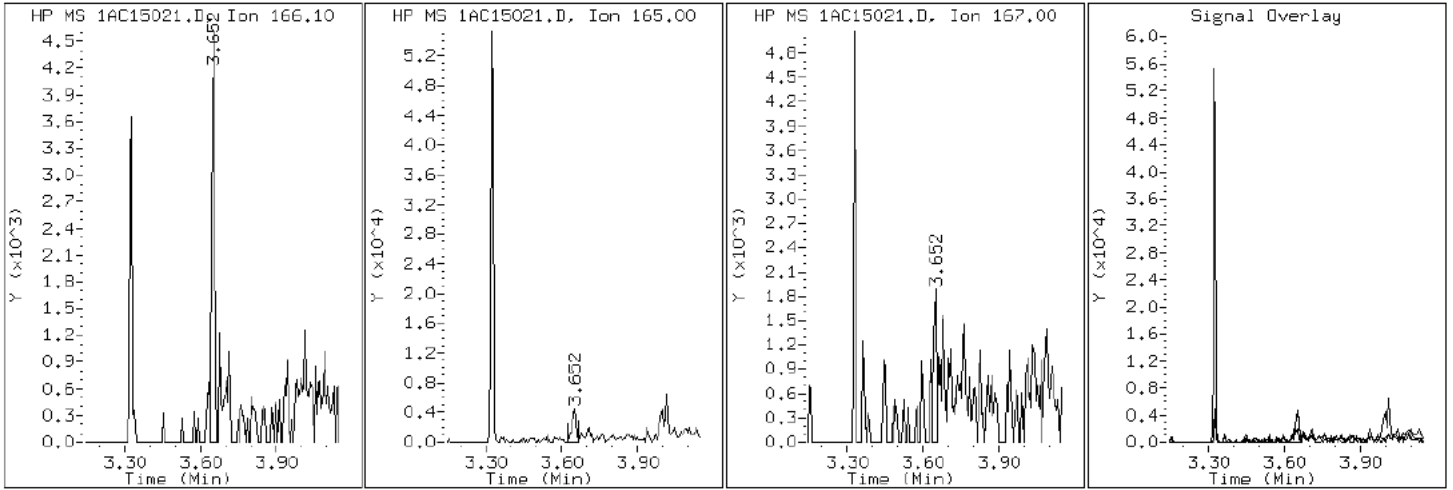
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

9 Fluorene



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

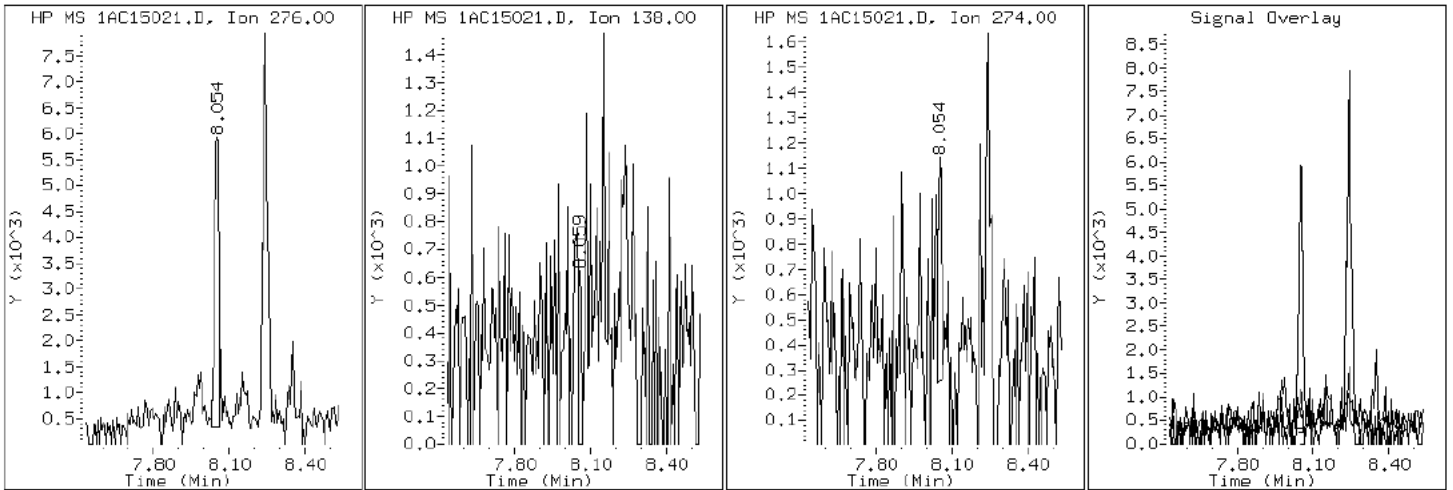
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

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



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

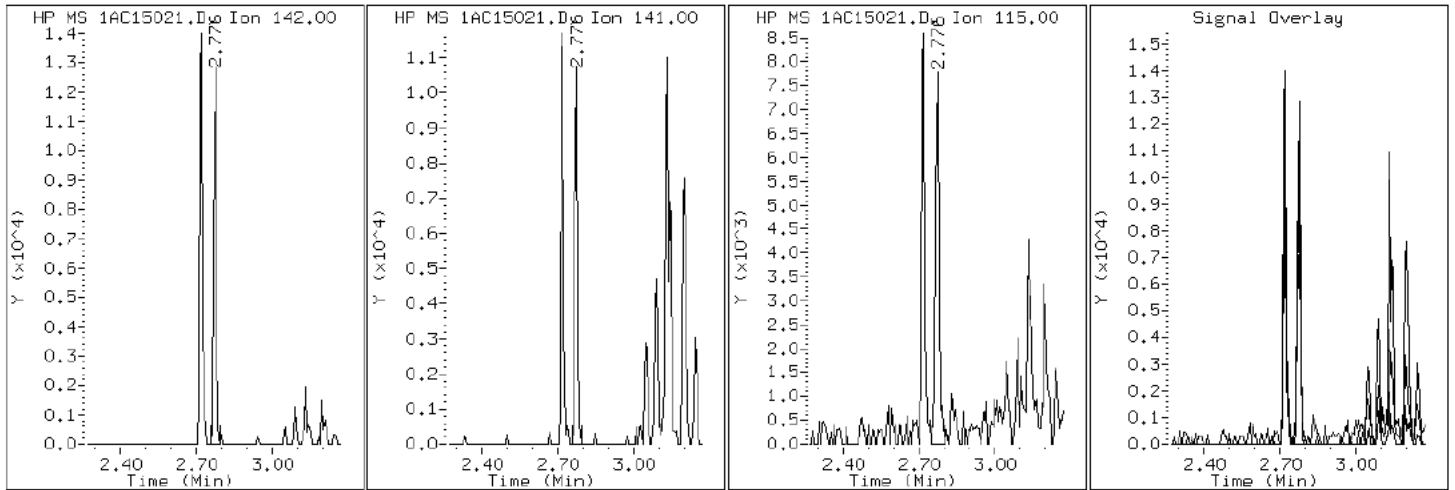
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

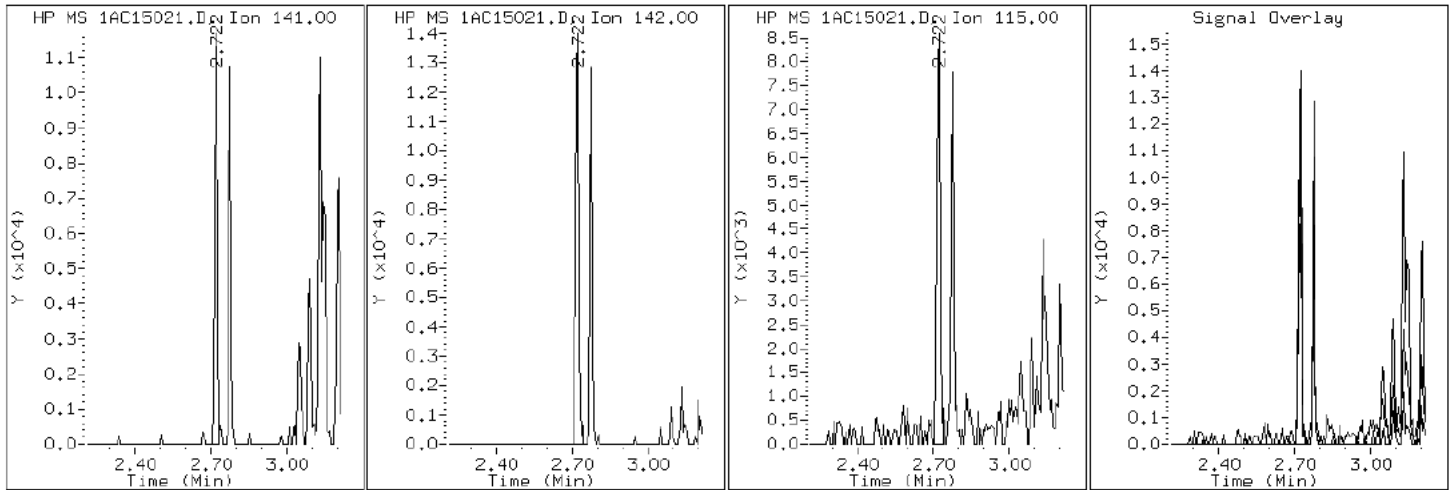
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

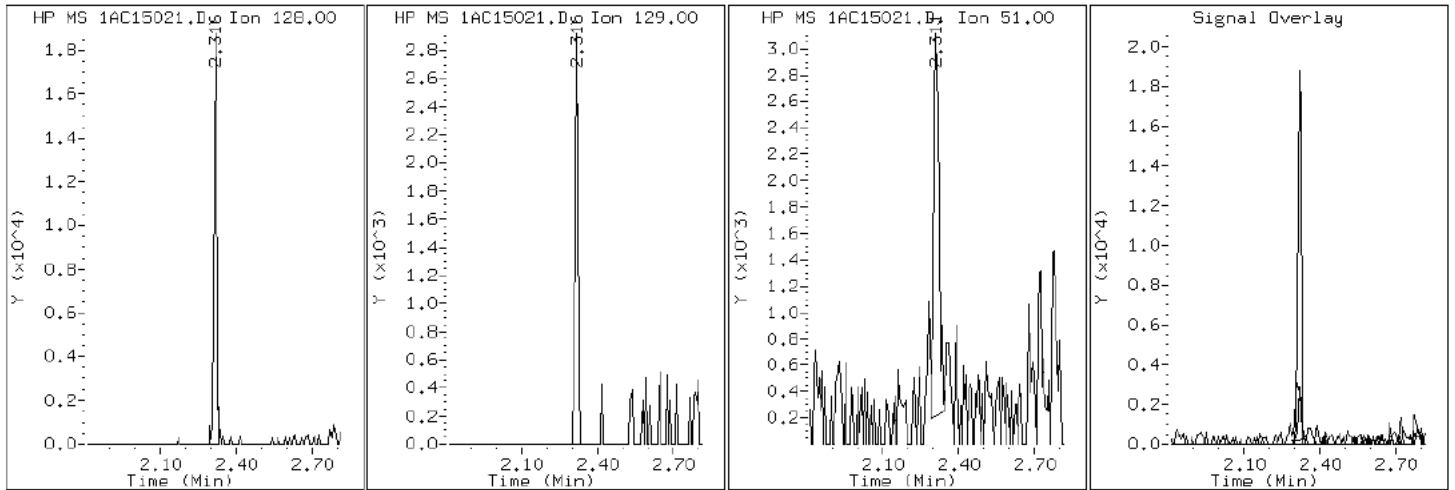
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

2 Naphthalene



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

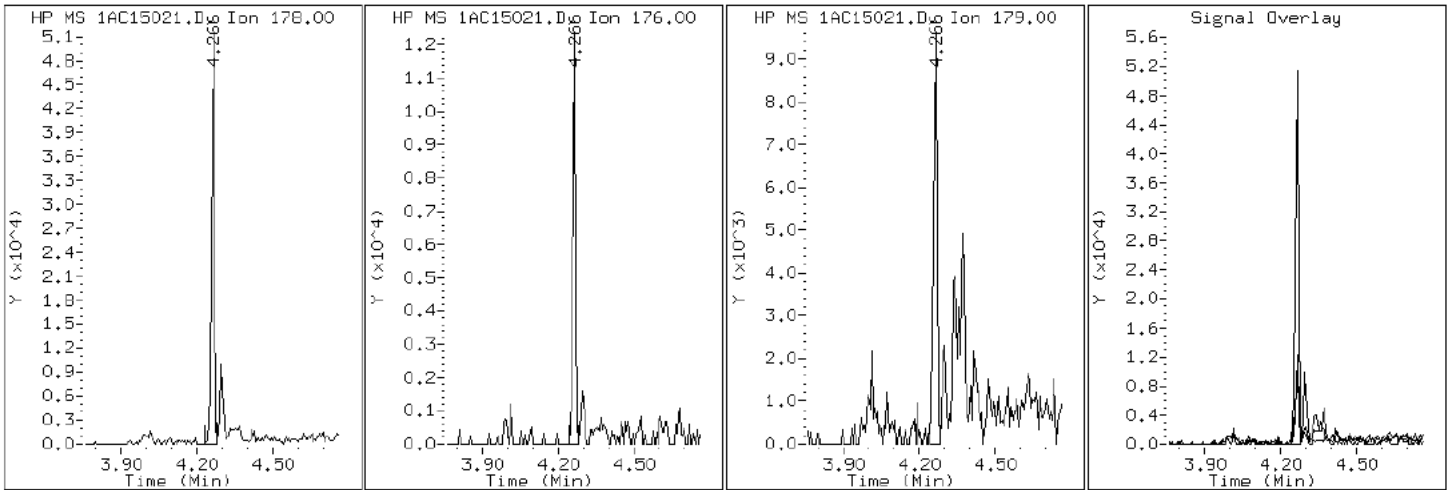
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15021.D

Date: 15-MAR-2013 17:49

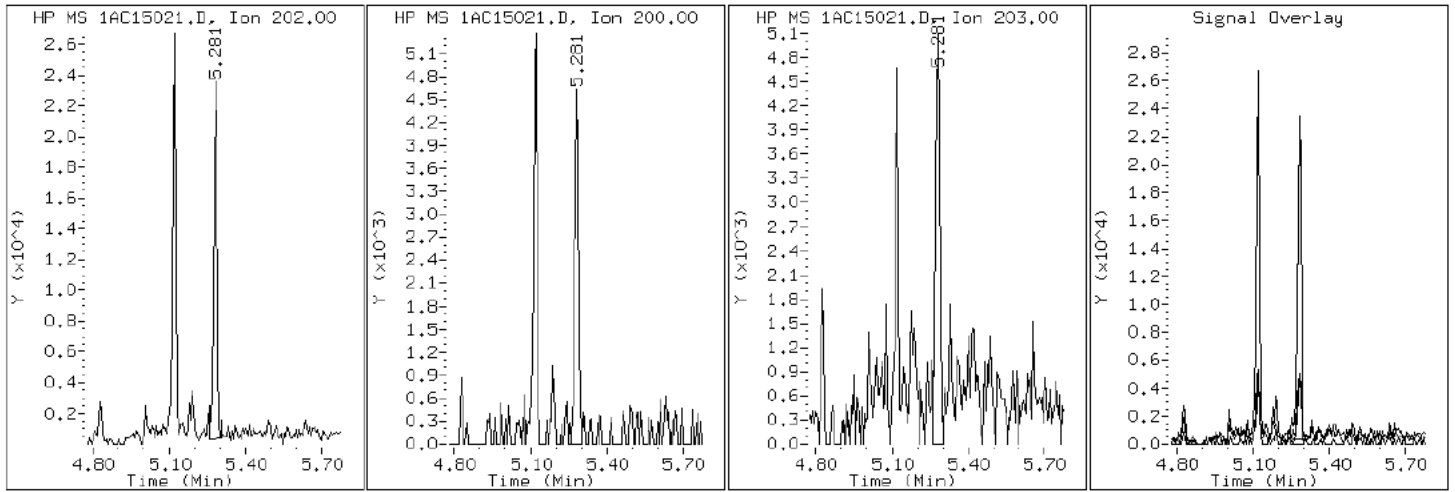
Client ID: CV0683C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-9-a

Operator: SCC

16 Pyrene

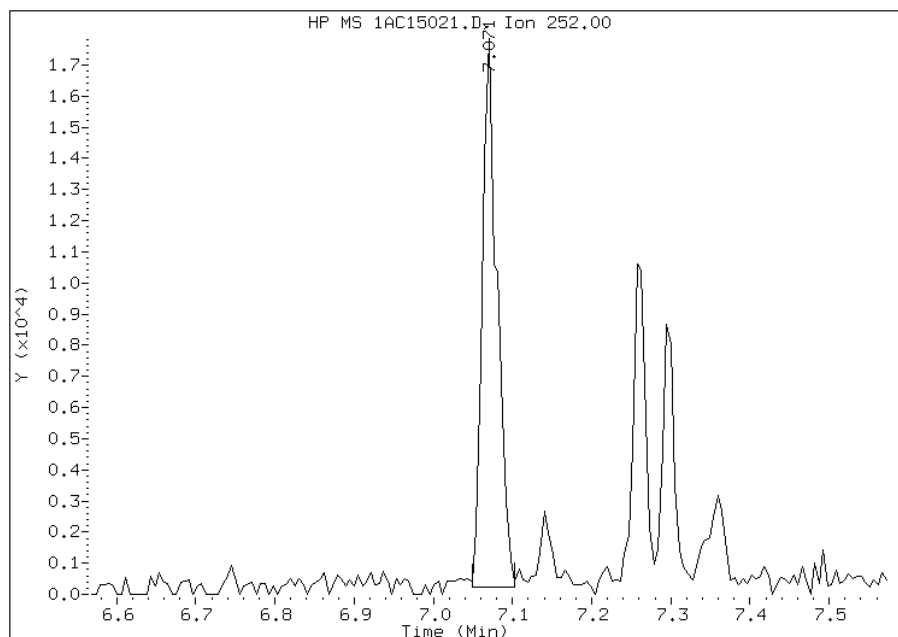


Manual Integration Report

Data File: 1AC15021.D
Inj. Date and Time: 15-MAR-2013 17:49
Instrument ID: BSMA5973.i
Client ID: CV0683C-GS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

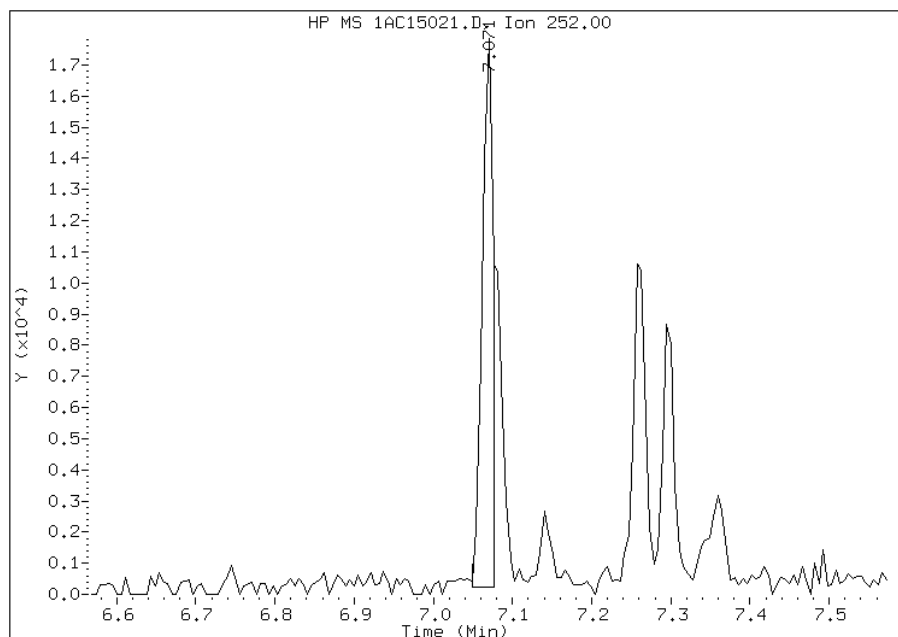
Processing Integration Results

RT: 7.07
Response: 22582
Amount: 3
Conc: 1099



Manual Integration Results

RT: 7.07
Response: 16337
Amount: 3
Conc: 903



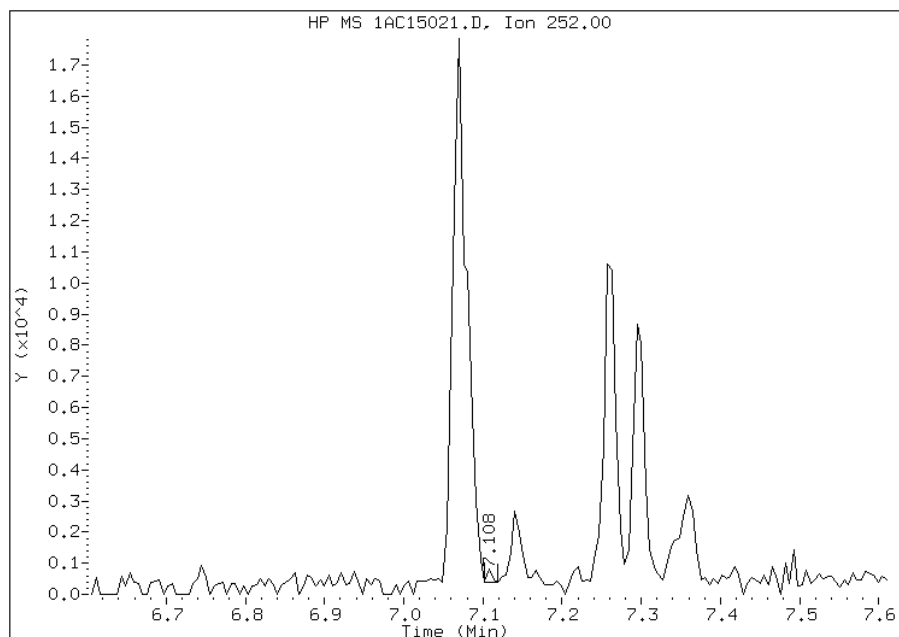
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:59
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15021.D
Inj. Date and Time: 15-MAR-2013 17:49
Instrument ID: BSMA5973.i
Client ID: CV0683C-GS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

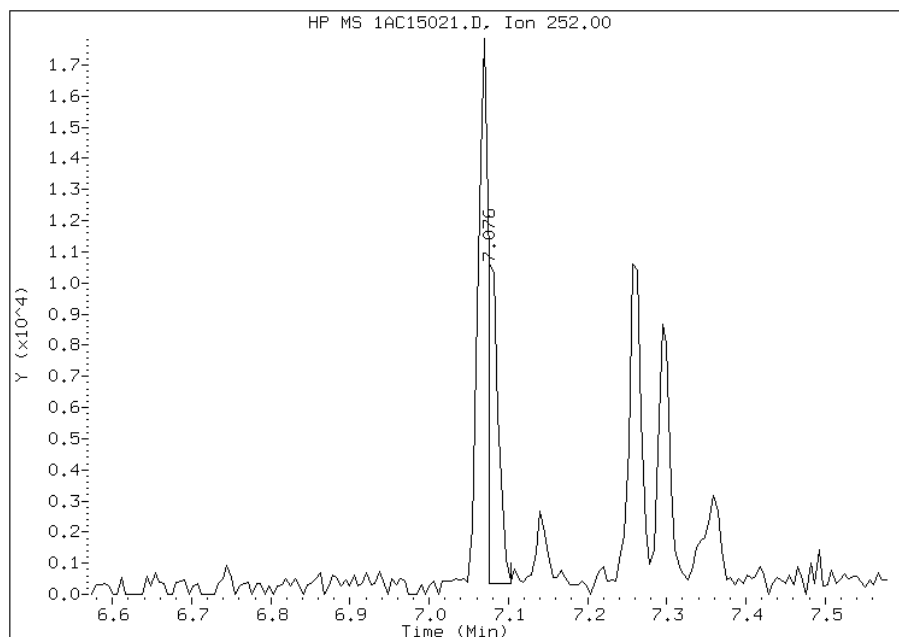
Processing Integration Results

RT: 7.11
Response: 170
Amount: 0
Conc: 5



Manual Integration Results

RT: 7.08
Response: 9354
Amount: 1
Conc: 300



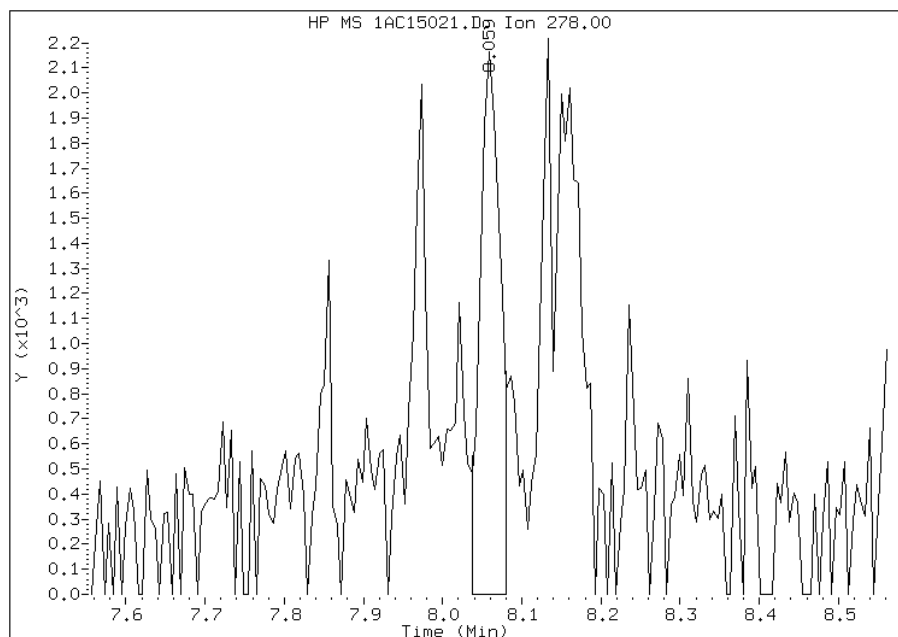
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15021.D
Inj. Date and Time: 15-MAR-2013 17:49
Instrument ID: BSMA5973.i
Client ID: CV0683C-GS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/20/2013

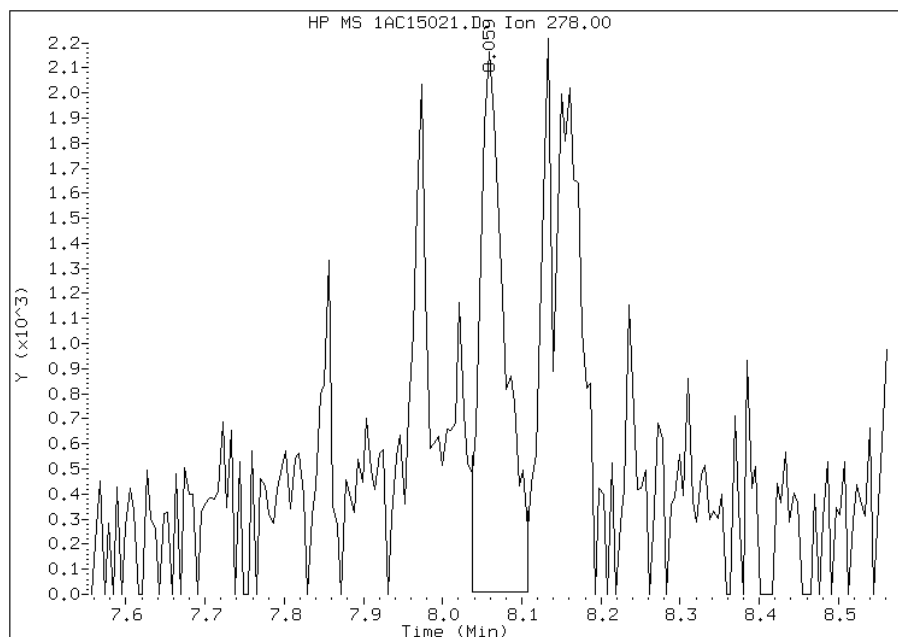
Processing Integration Results

RT: 8.06
Response: 3852
Amount: 0
Conc: 159



Manual Integration Results

RT: 8.06
Response: 4724
Amount: 1
Conc: 195



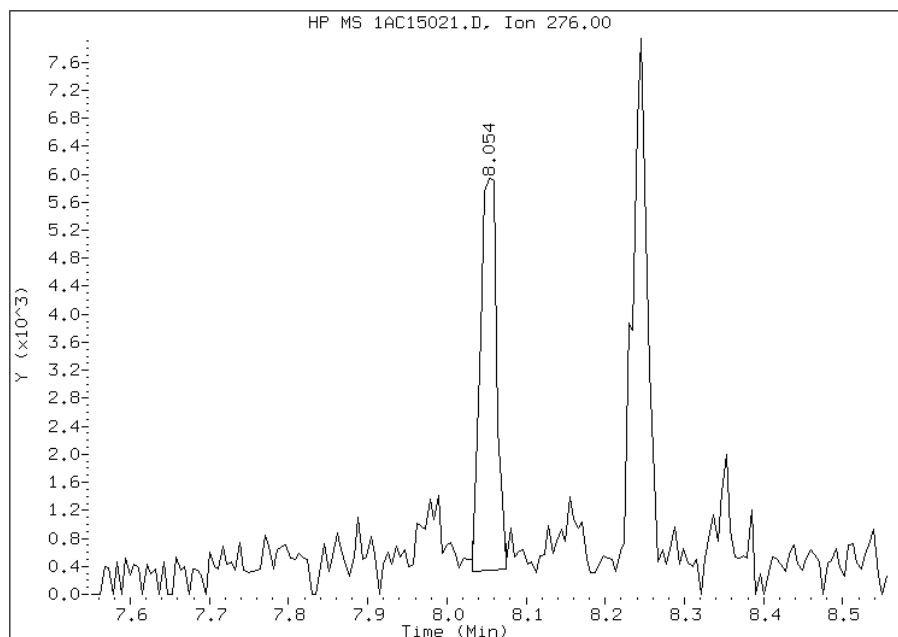
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15021.D
Inj. Date and Time: 15-MAR-2013 17:49
Instrument ID: BSMA5973.i
Client ID: CV0683C-GS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

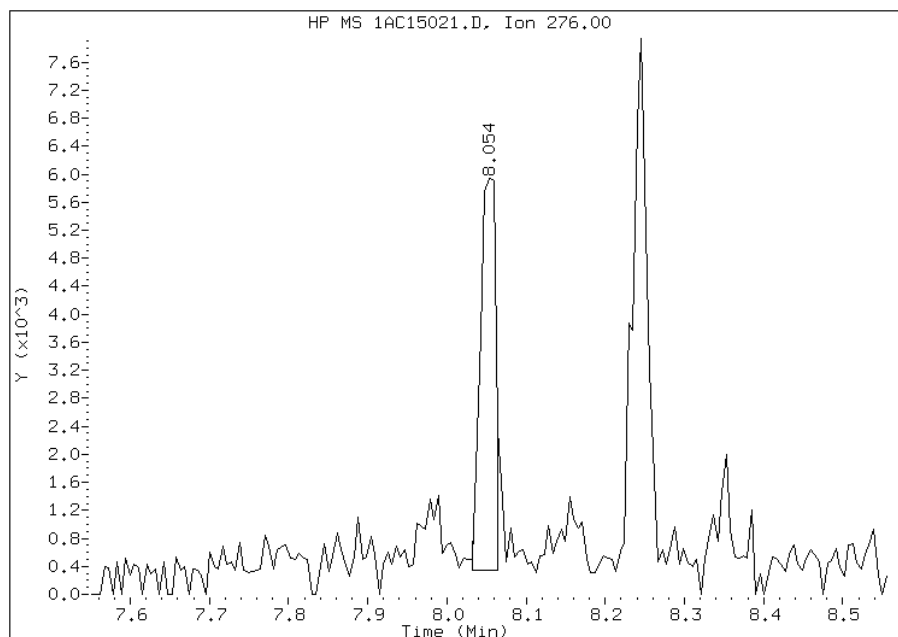
Processing Integration Results

RT: 8.05
Response: 7923
Amount: 1
Conc: 323



Manual Integration Results

RT: 8.05
Response: 7559
Amount: 1
Conc: 309



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0684A-CS-SP Lab Sample ID: 680-88118-10
 Matrix: Solid Lab File ID: 1AC15022.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 12:38
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.49(g) Date Analyzed: 03/15/2013 18:04
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 24.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	47	J	130	26
208-96-8	Acenaphthylene	49	J	52	6.4
120-12-7	Anthracene	56		11	5.4
56-55-3	Benzo[a]anthracene	280		10	5.0
50-32-8	Benzo[a]pyrene	170		13	6.7
205-99-2	Benzo[b]fluoranthene	410		16	7.9
191-24-2	Benzo[g,h,i]perylene	190		26	5.7
207-08-9	Benzo[k]fluoranthene	89		10	4.6
218-01-9	Chrysene	360		12	5.8
53-70-3	Dibenz(a,h)anthracene	87		26	5.3
206-44-0	Fluoranthene	330		26	5.2
86-73-7	Fluorene	57		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	140		26	9.1
90-12-0	1-Methylnaphthalene	130		52	5.7
91-57-6	2-Methylnaphthalene	220		52	9.1
91-20-3	Naphthalene	150		52	5.7
85-01-8	Phenanthrene	360		10	5.0
129-00-0	Pyrene	310		26	4.8

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15022.D
 Lab Smp Id: 680-88118-A-10-A Client Smp ID: CV0684A-CS-SP
 Inj Date : 15-MAR-2013 18:04
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-10-a
 Misc Info : 680-88118-A-10-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 22
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.490	Weight Extracted
M	24.793	% 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	CONCENTRATIONS				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136	2.310	2.303	(1.000)	445428	40.0000	
* 6 Acenaphthene-d10	164	3.331	3.324	(1.000)	370545	40.0000	
* 10 Phenanthrene-d10	188	4.255	4.248	(1.000)	550426	40.0000	
\$ 14 o-Terphenyl	230	4.527	4.526	(1.064)	38224	5.36071	460.1666
* 18 Chrysene-d12	240	6.264	6.246	(1.000)	436207	40.0000	
* 23 Perylene-d12	264	7.359	7.330	(1.000)	463741	40.0000	
2 Naphthalene	128	2.321	2.314	(1.005)	17501	1.70063	145.9831
3 2-Methylnaphthalene	141	2.722	2.715	(1.178)	10739	2.58193	221.6342(M)
4 1-Methylnaphthalene	142	2.775	2.773	(1.201)	9220	1.55810	133.7479
5 Acenaphthylene	152	3.245	3.238	(0.974)	5344	0.57131	49.0415
7 Acenaphthene	154	3.347	3.345	(1.005)	985	0.54669	46.9284(Q)
9 Fluorene	166	3.657	3.649	(1.098)	4193	0.66816	57.3555(Q)
11 Phenanthrene	178	4.271	4.264	(1.004)	58984	4.22812	362.9445
12 Anthracene	178	4.303	4.296	(1.011)	8762	0.64776	55.6036

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	4.463	4.456	(1.049)	5802	0.48938	42.0084
15 Fluoranthene	202	5.126	5.113	(1.205)	52502	3.80729	326.8196
16 Pyrene	202	5.286	5.279	(0.844)	45287	3.62091	310.8213
17 Benzo(a)anthracene	228	6.253	6.235	(0.998)	39683	3.30552	283.7476
19 Chrysene	228	6.274	6.262	(1.002)	47277	4.18457	359.2061
20 Benzo(b)fluoranthene	252	7.076	7.052	(0.962)	45714	4.78014	410.3302(M)
21 Benzo(k)fluoranthene	252	7.086	7.074	(0.963)	13042	1.04261	89.4980(QMH)
22 Benzo(a)pyrene	252	7.300	7.282	(0.992)	21859	2.00854	172.4138
24 Indeno(1,2,3-cd)pyrene	276	8.059	8.035	(1.095)	16437	1.67386	143.6850(M)
25 Dibenzo(a,h)anthracene	278	8.064	8.045	(1.096)	9864	1.01353	87.0015
26 Benzo(g,h,i)perylene	276	8.251	8.222	(1.121)	22032	2.22891	191.3310

QC Flag Legend

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

Data File: 1AC15022.D

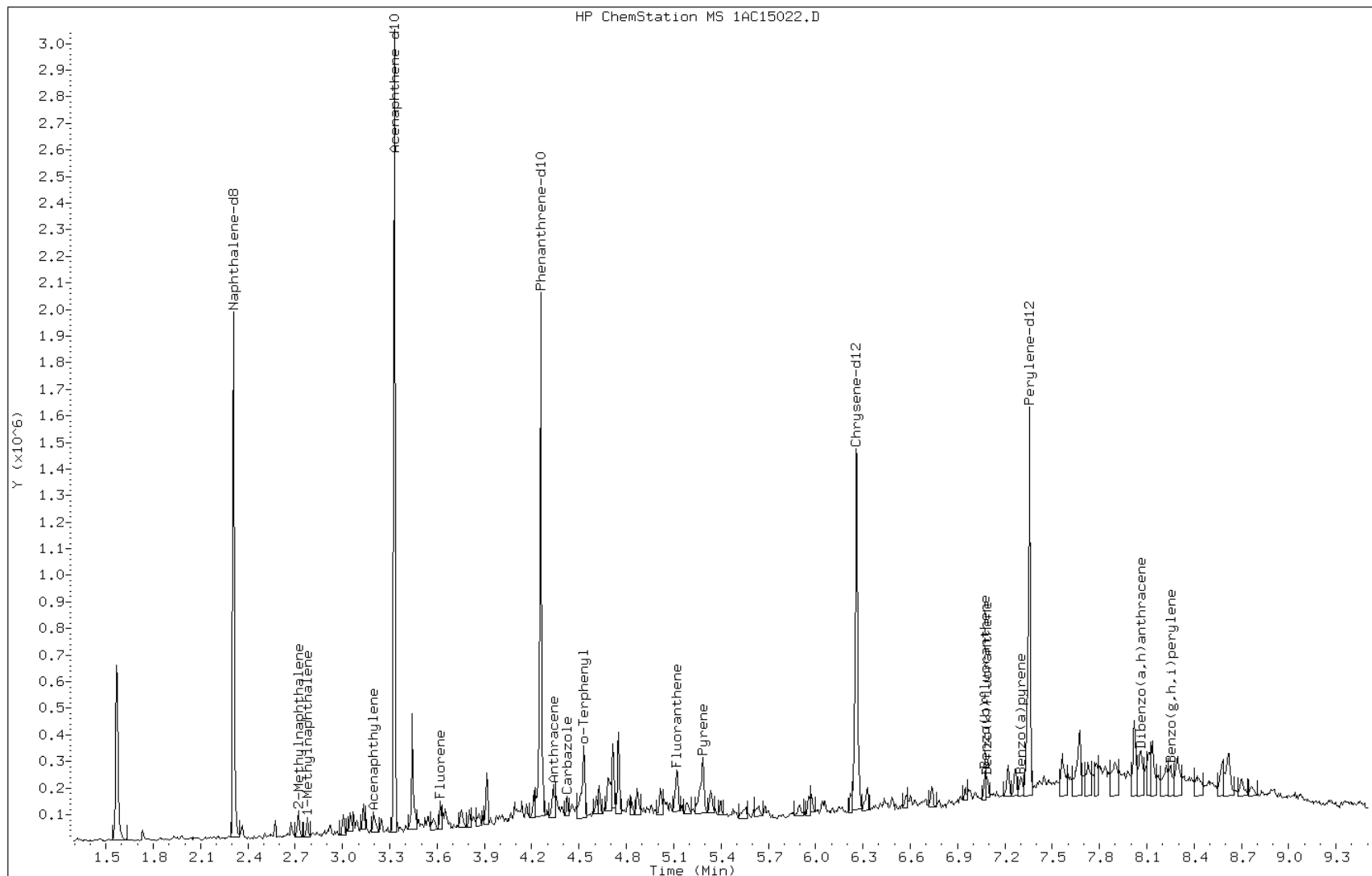
Date: 15-MAR-2013 18:04

Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

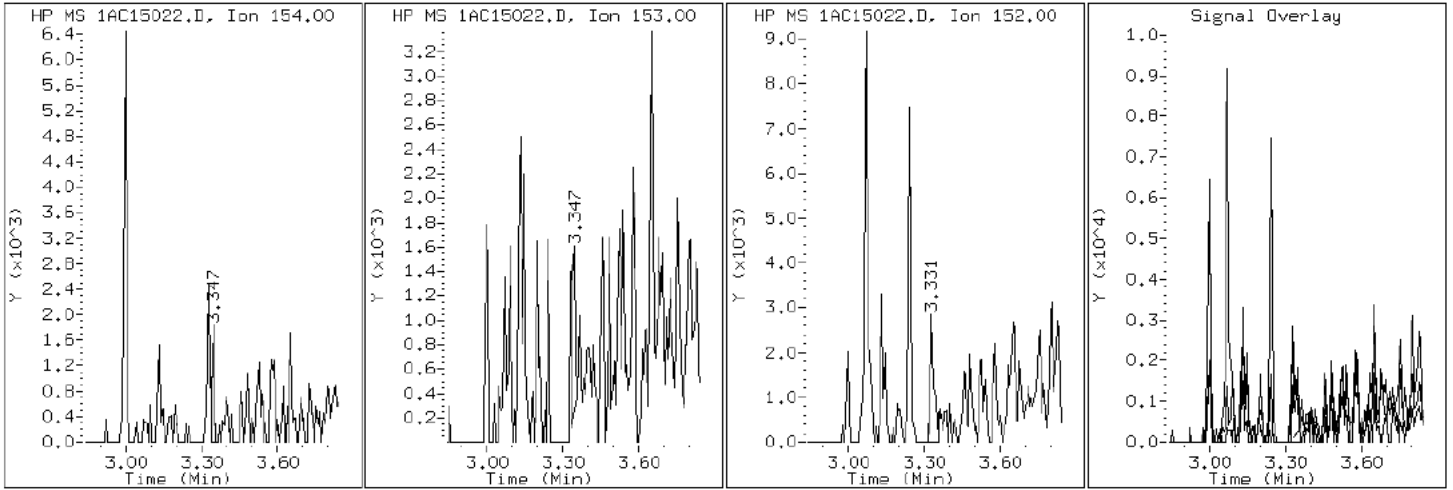
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

7 Acenaphthene



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

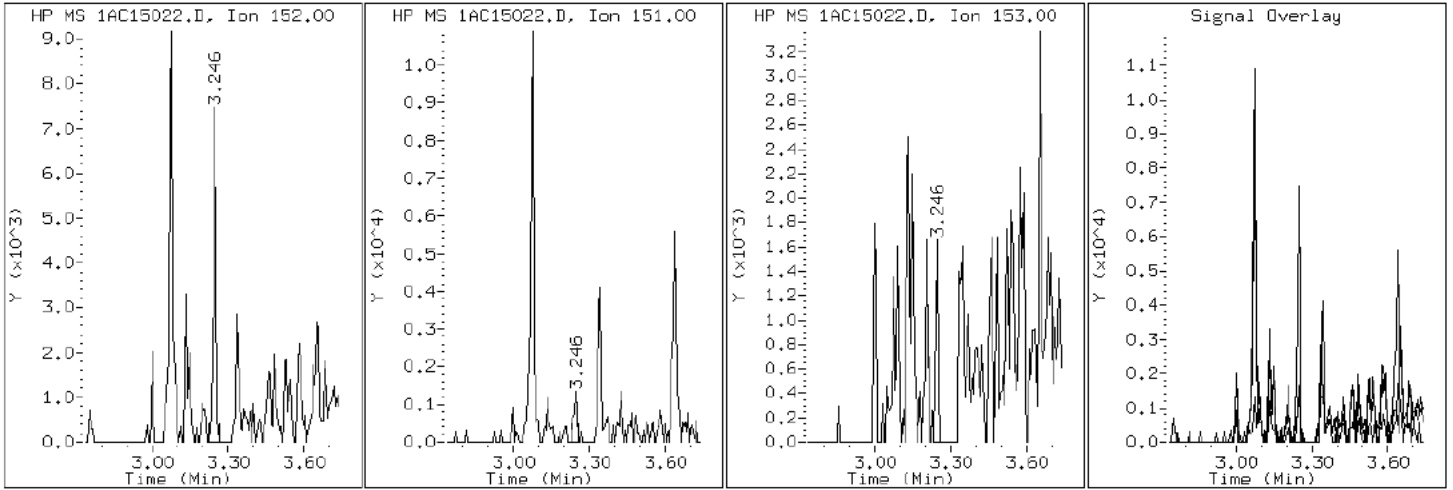
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

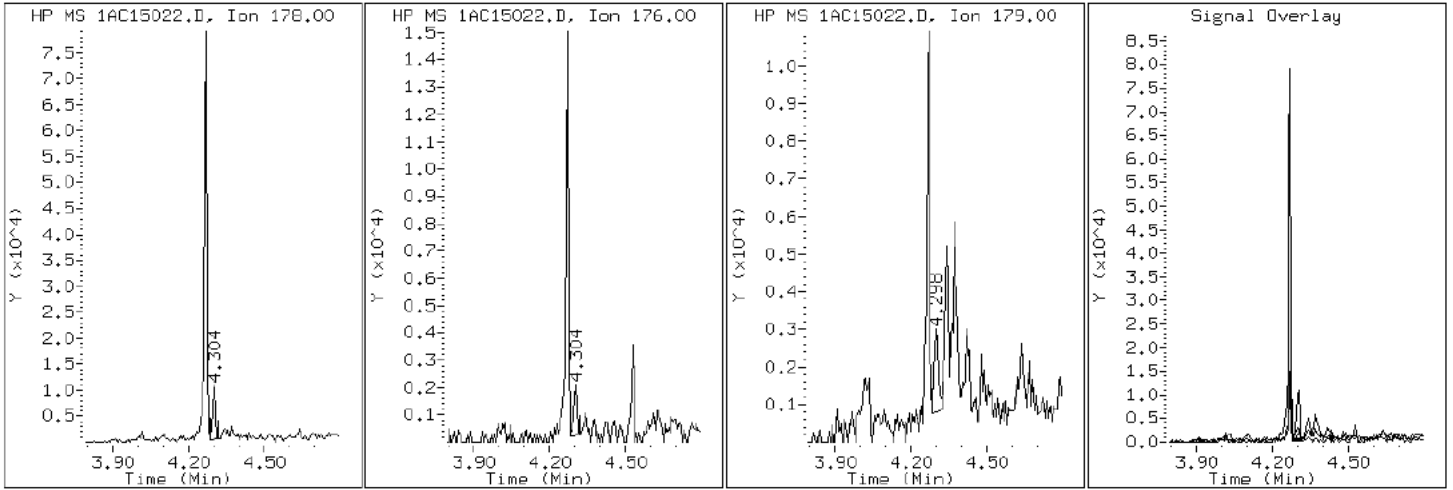
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

12 Anthracene



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

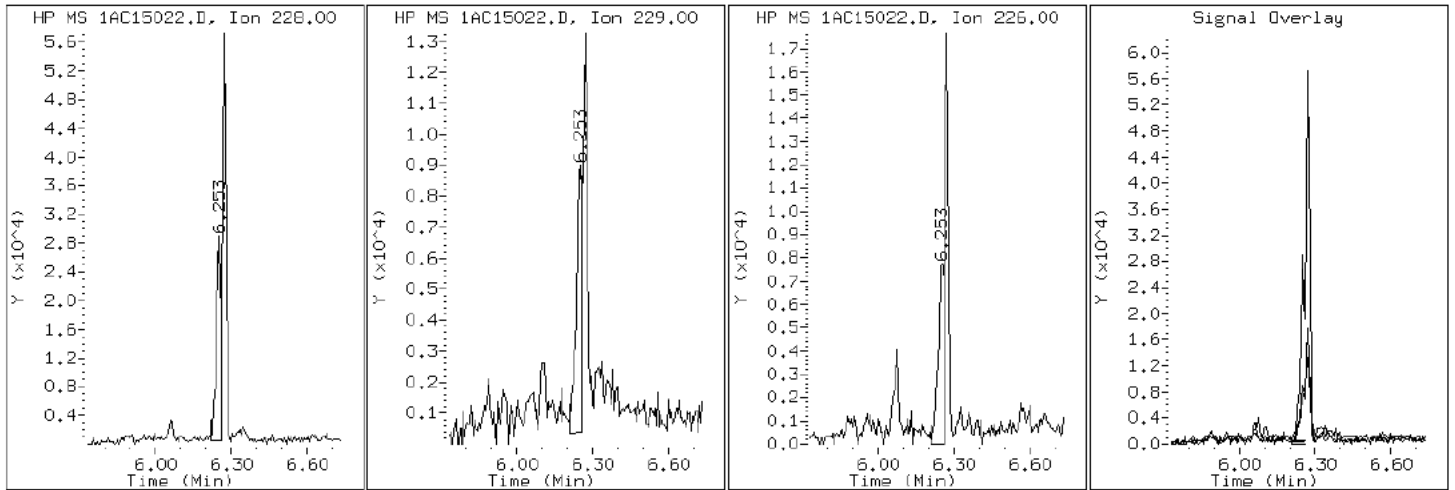
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

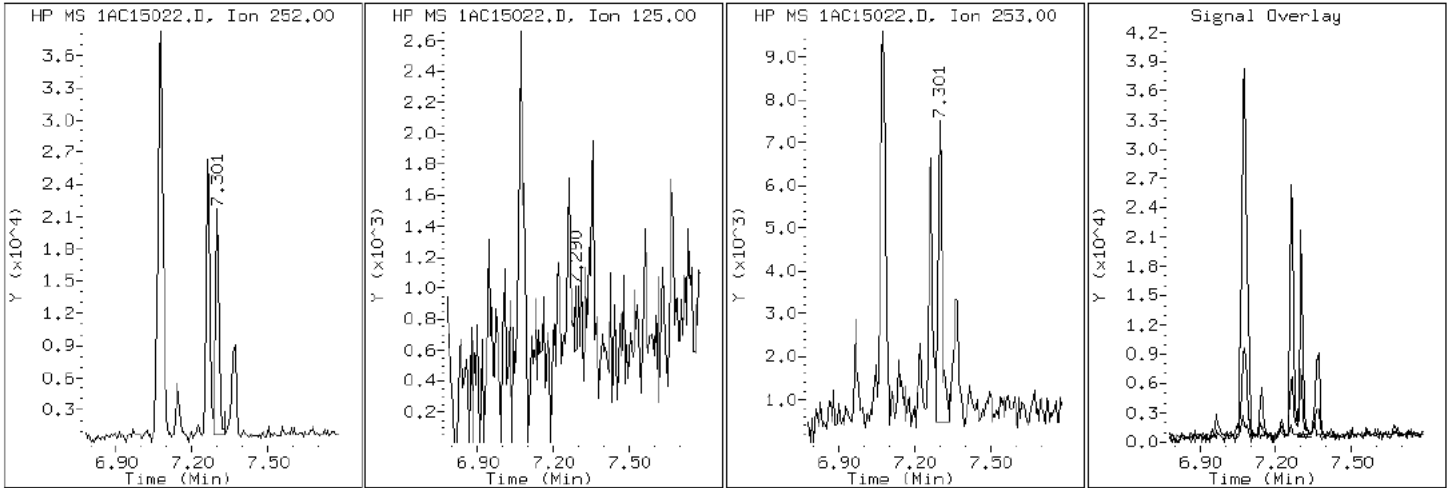
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

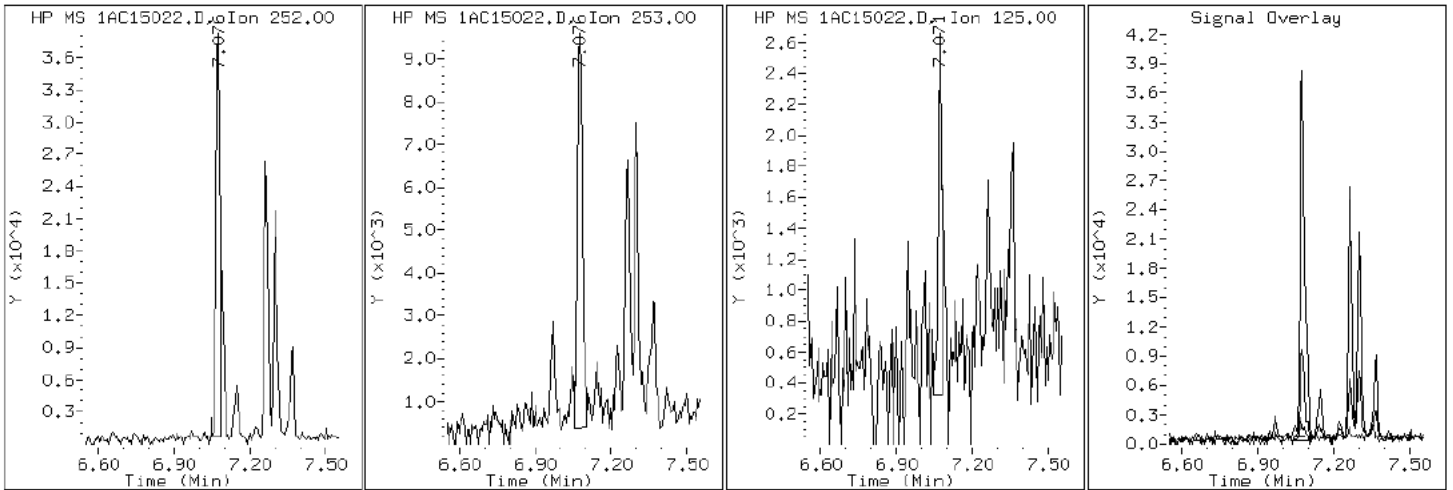
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

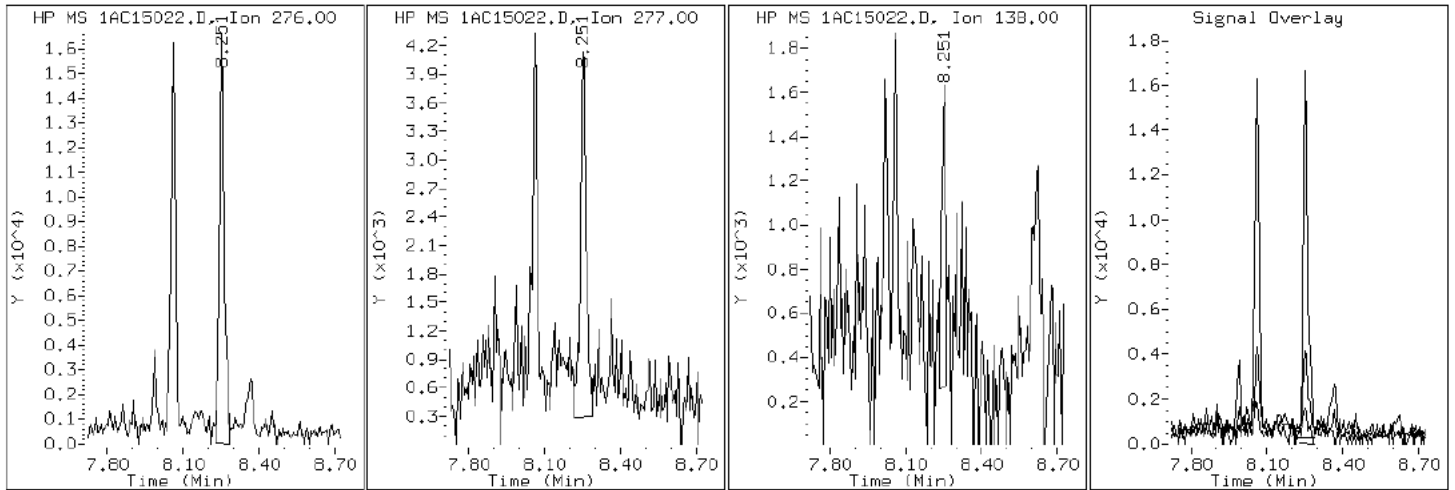
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

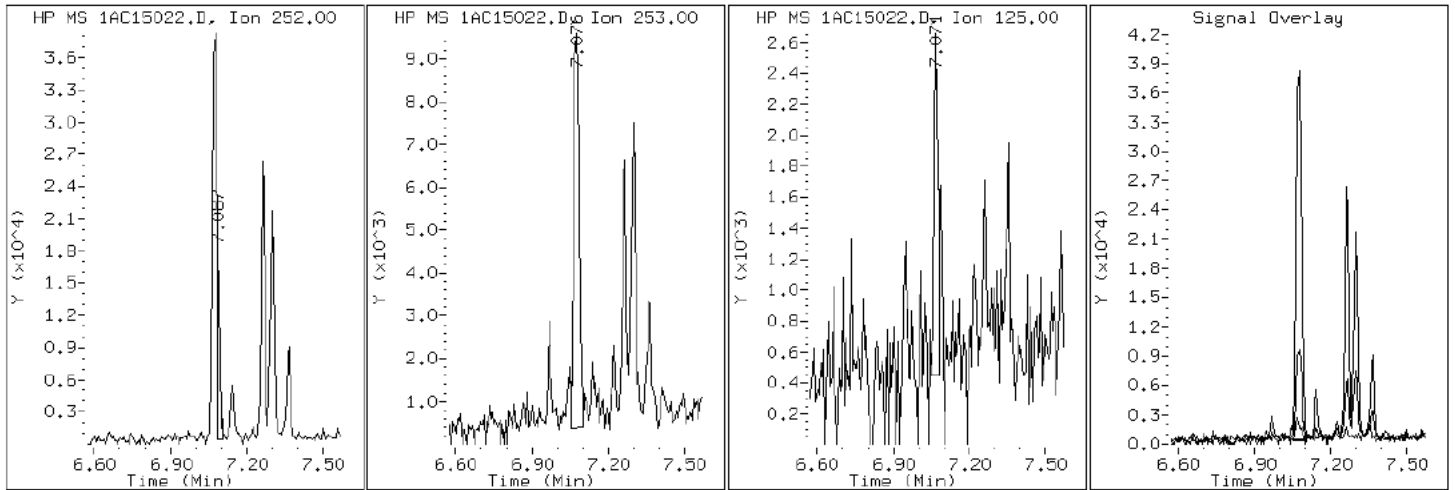
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

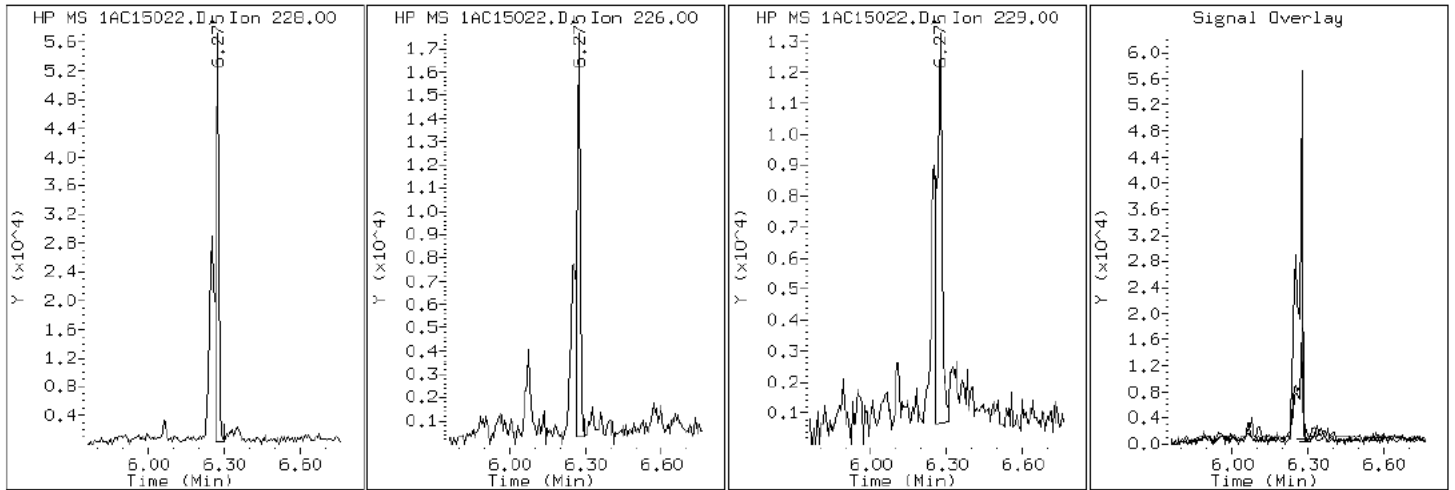
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

19 Chrysene



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

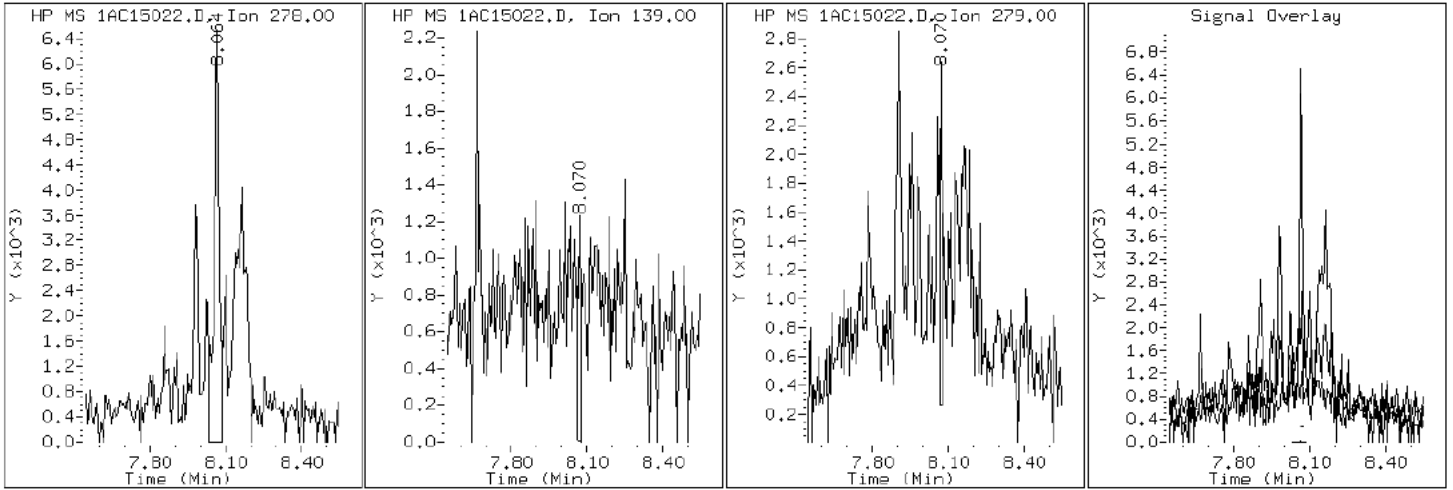
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

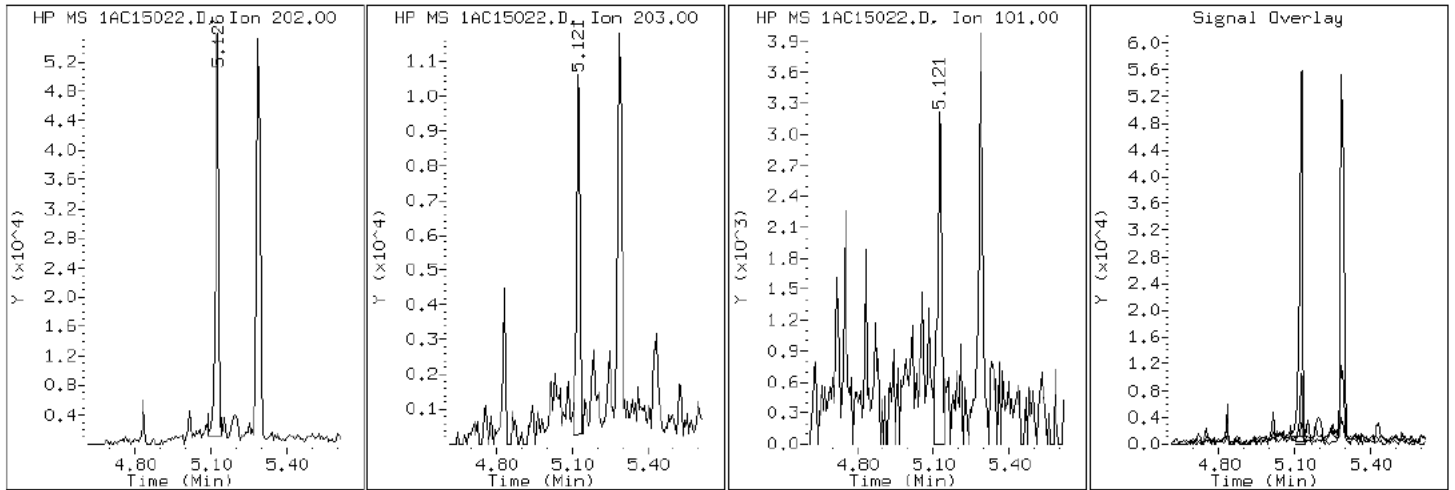
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

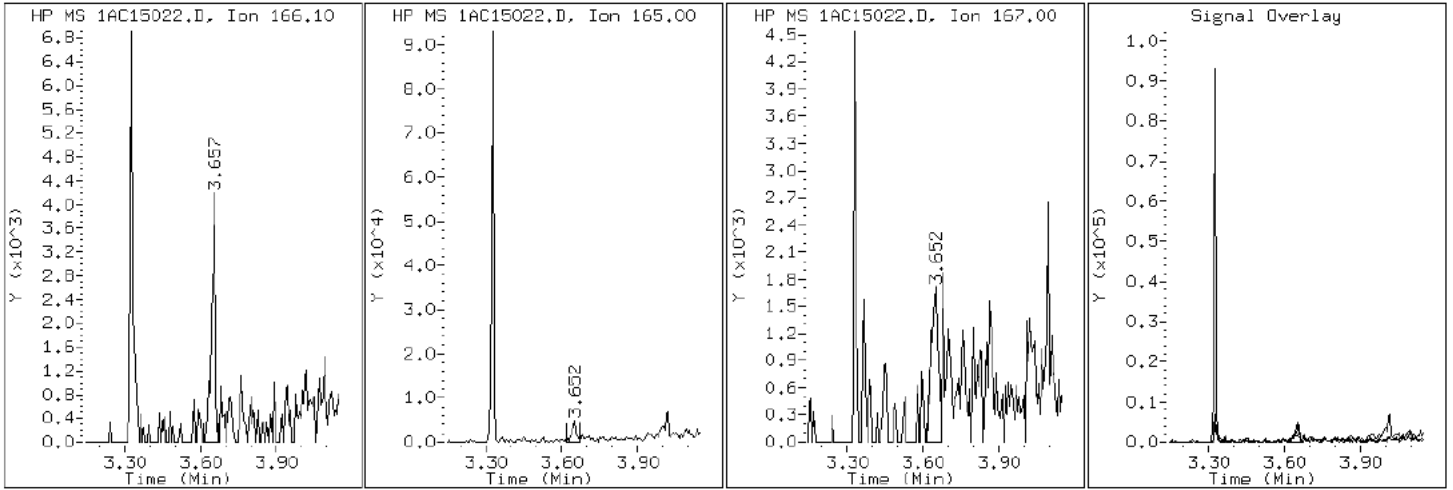
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

9 Fluorene



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

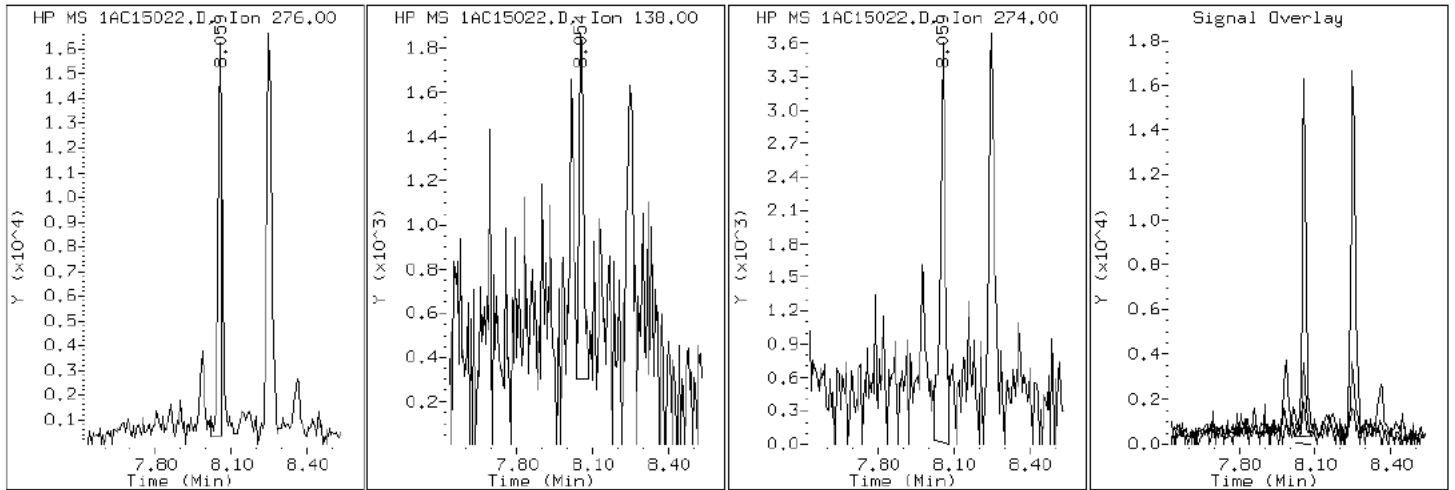
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

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



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

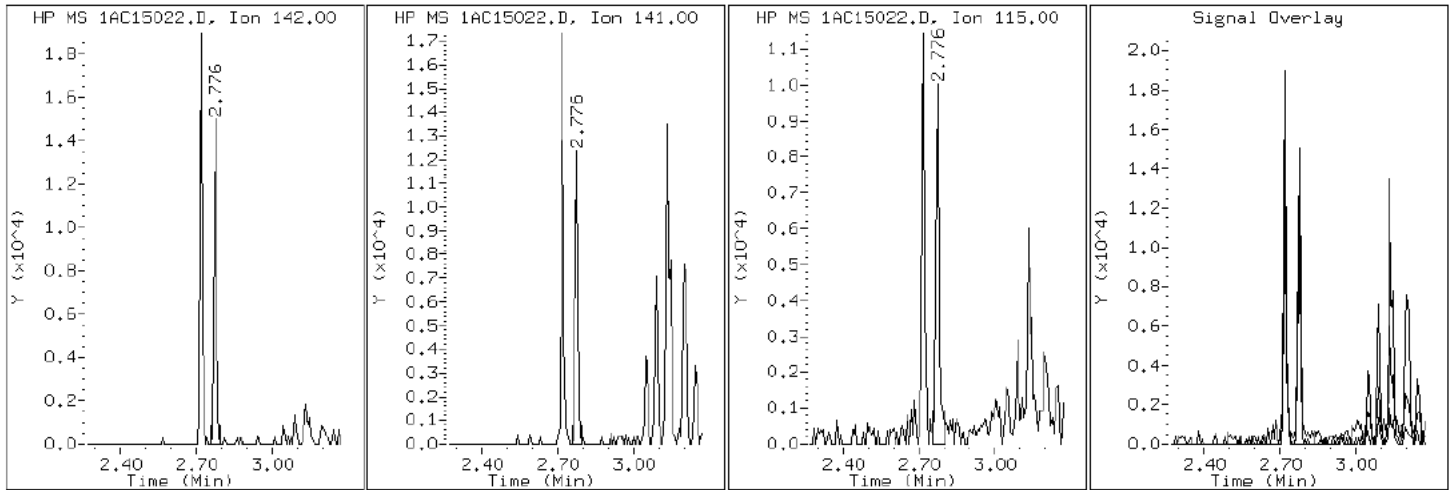
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

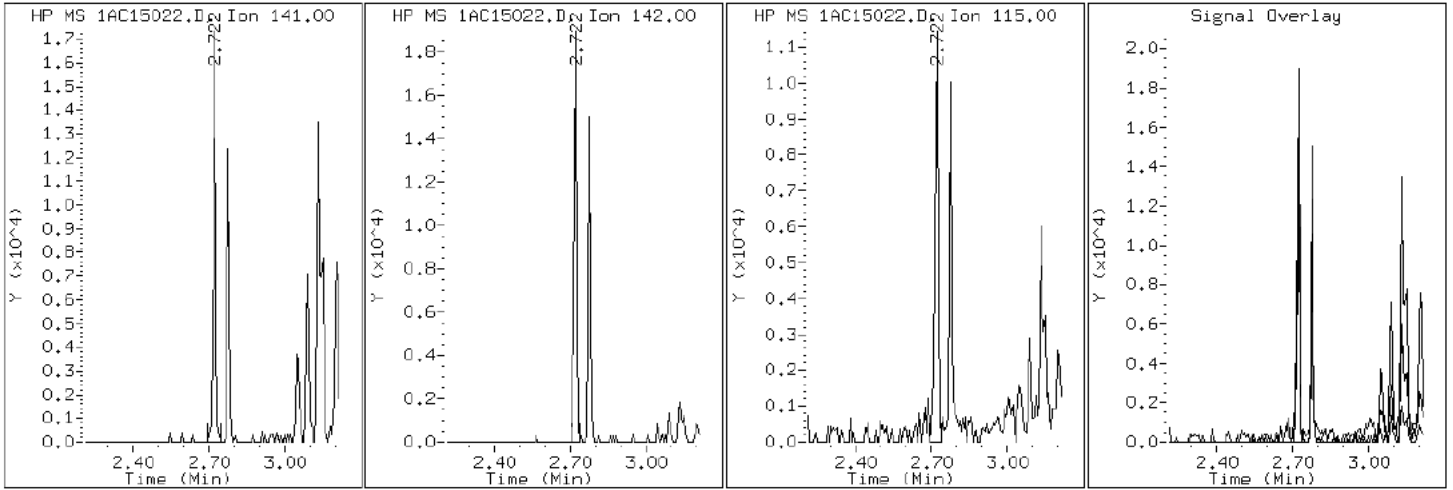
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

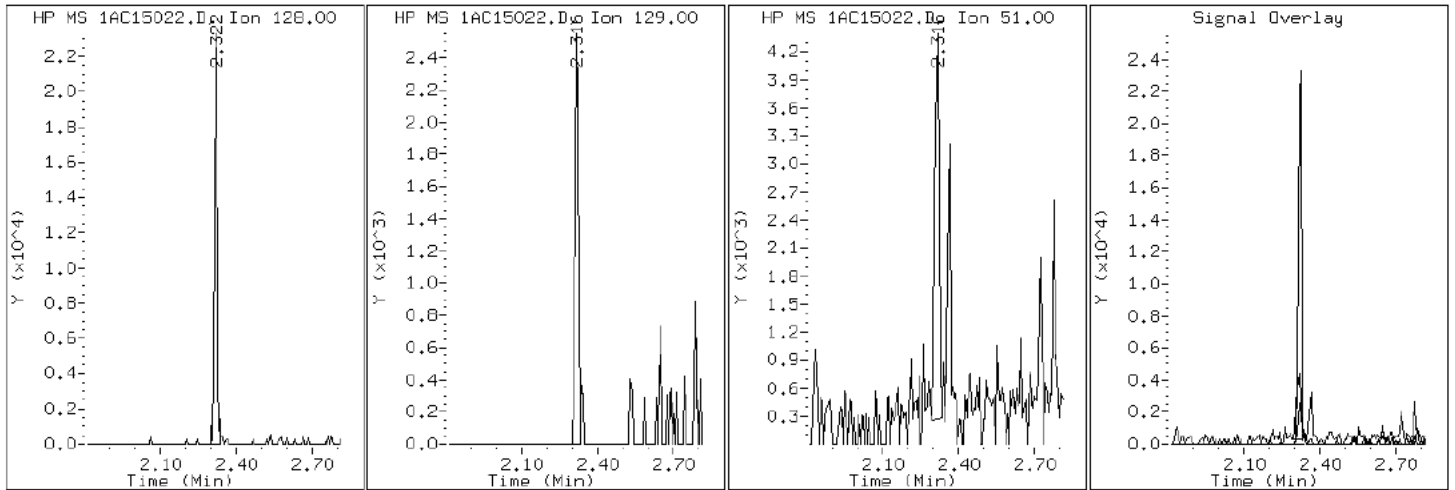
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

2 Naphthalene



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

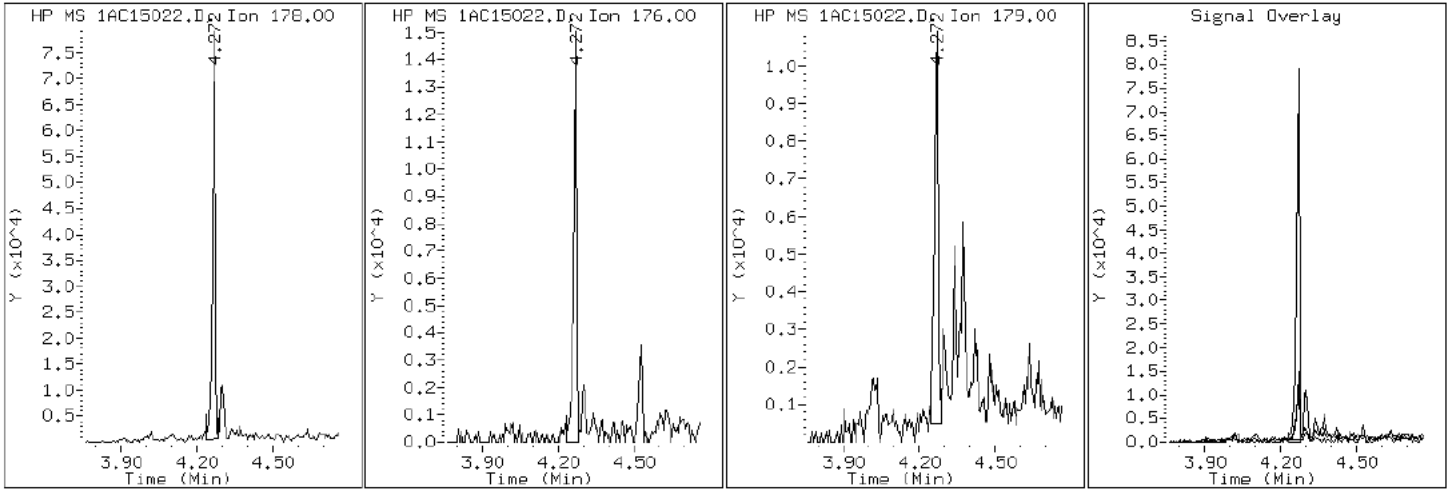
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15022.D

Date: 15-MAR-2013 18:04

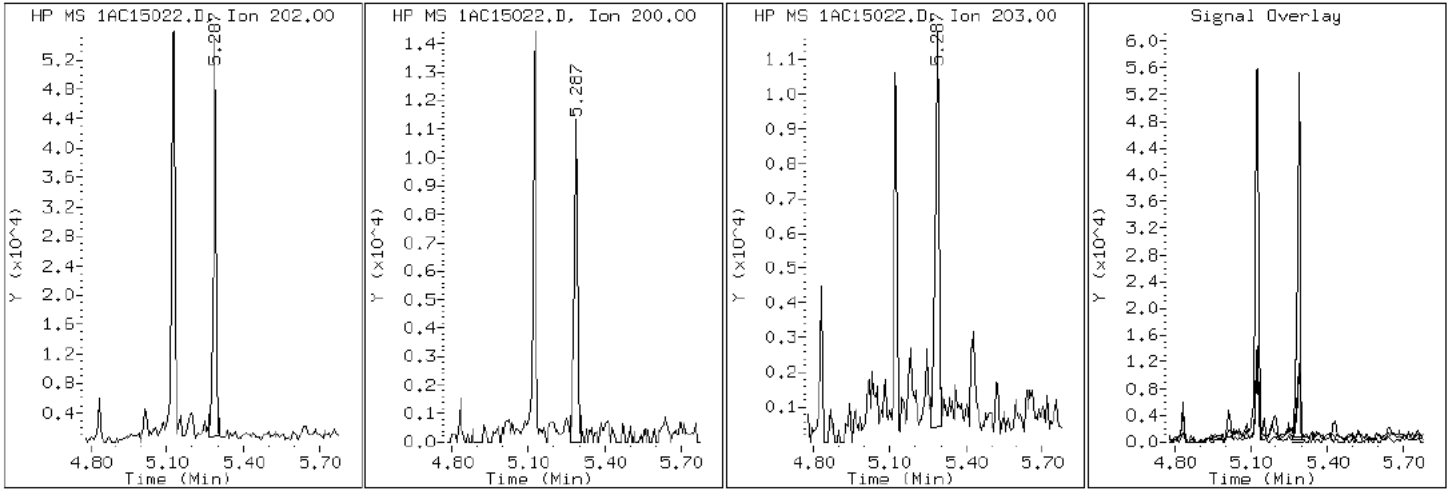
Client ID: CV0684A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-10-a

Operator: SCC

16 Pyrene

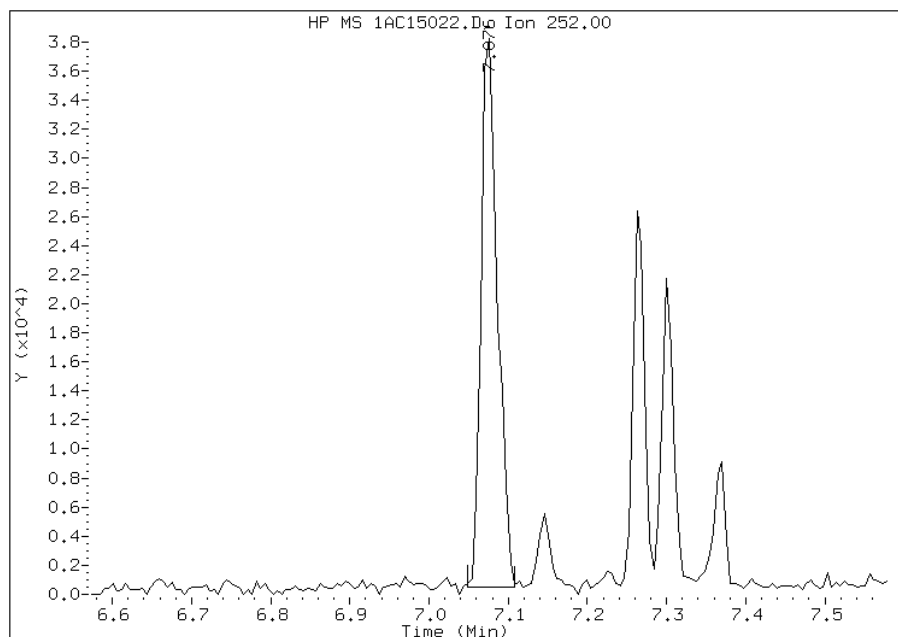


Manual Integration Report

Data File: 1AC15022.D
Inj. Date and Time: 15-MAR-2013 18:04
Instrument ID: BSMA5973.i
Client ID: CV0684A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

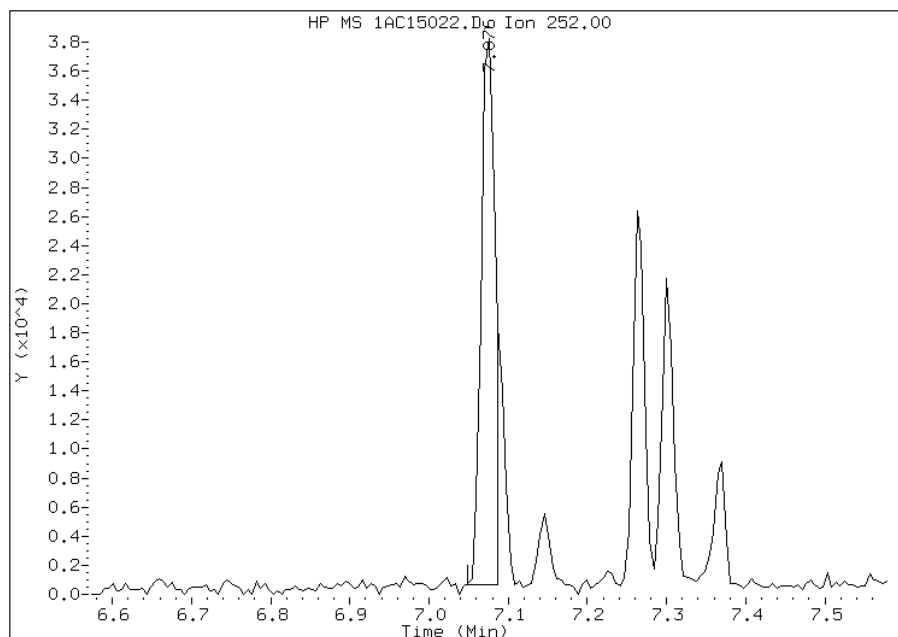
Processing Integration Results

RT: 7.08
Response: 53349
Amount: 5
Conc: 462



Manual Integration Results

RT: 7.08
Response: 45714
Amount: 5
Conc: 410



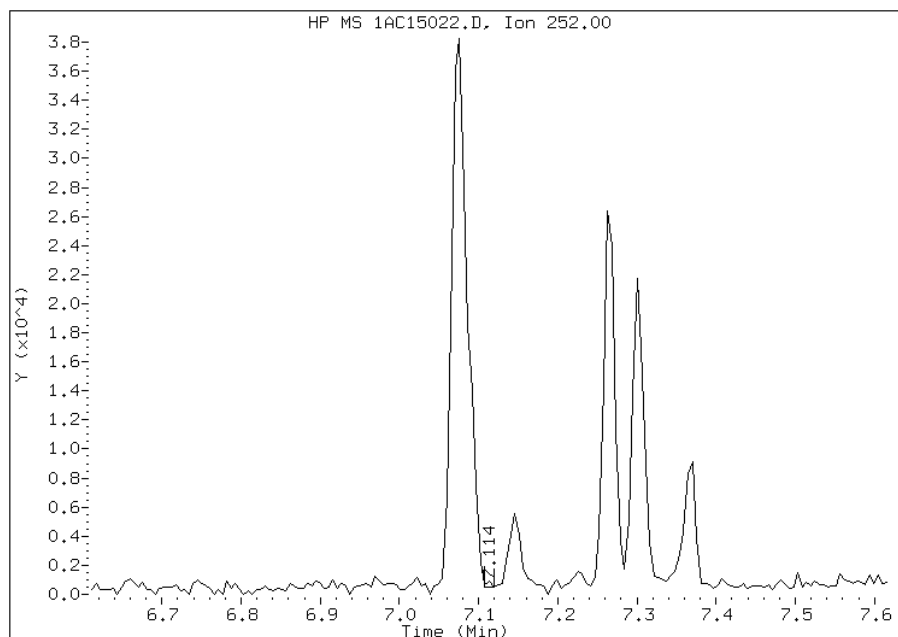
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:01
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15022.D
Inj. Date and Time: 15-MAR-2013 18:04
Instrument ID: BSMA5973.i
Client ID: CV0684A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

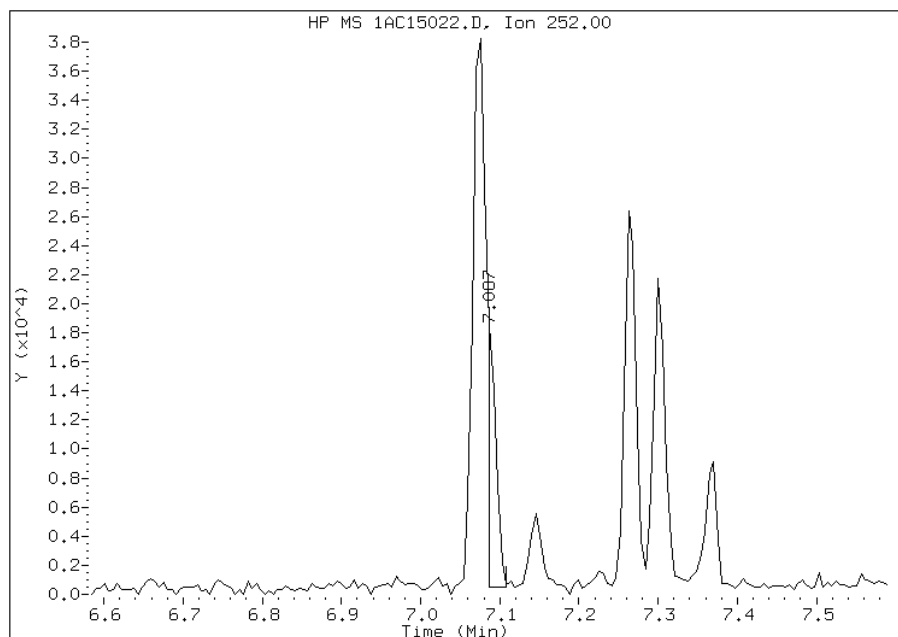
Processing Integration Results

RT: 7.11
Response: 190
Amount: 0
Conc: 1



Manual Integration Results

RT: 7.09
Response: 13042
Amount: 1
Conc: 89



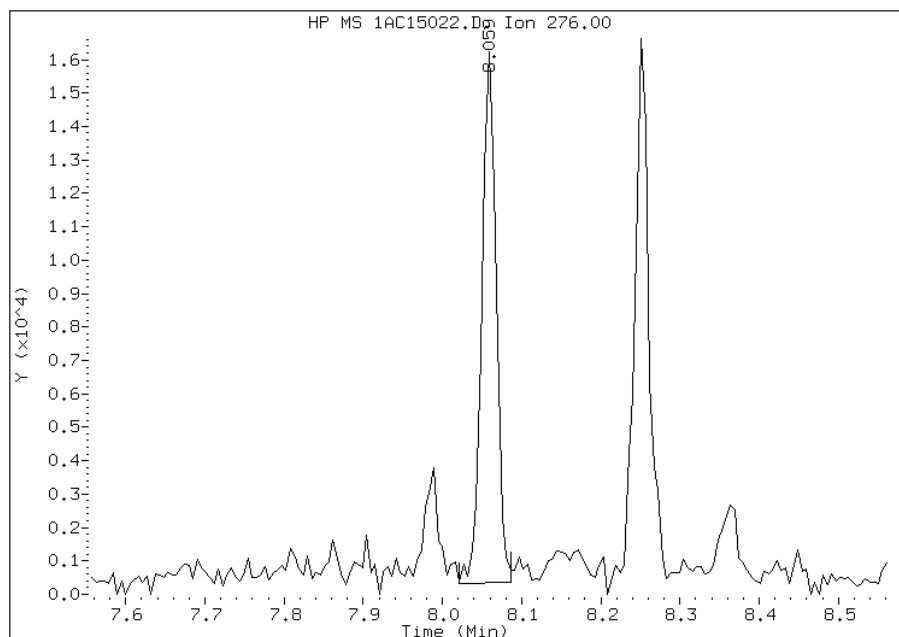
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15022.D
Inj. Date and Time: 15-MAR-2013 18:04
Instrument ID: BSMA5973.i
Client ID: CV0684A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

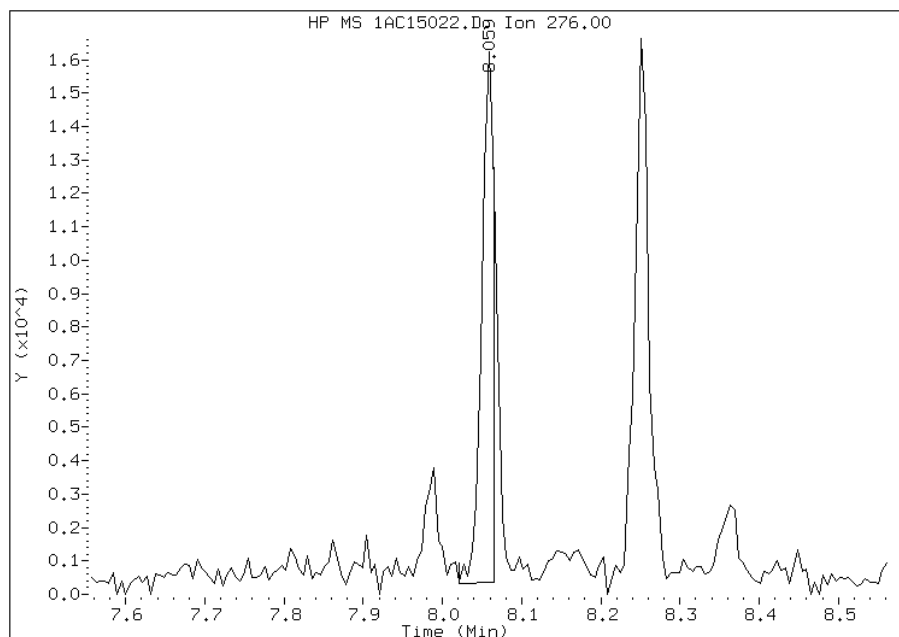
Processing Integration Results

RT: 8.06
Response: 19735
Amount: 2
Conc: 173



Manual Integration Results

RT: 8.06
Response: 16437
Amount: 2
Conc: 144



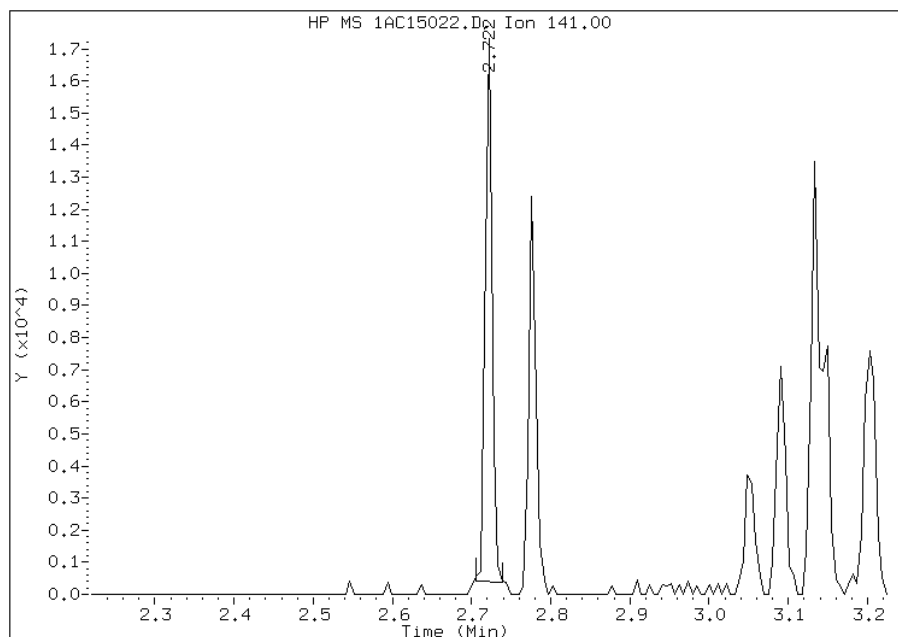
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:02
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15022.D
Inj. Date and Time: 15-MAR-2013 18:04
Instrument ID: BSMA5973.i
Client ID: CV0684A-CS-SP
Compound: 3 2-Methylnaphthalene
CAS #: 91-57-6
Report Date: 03/20/2013

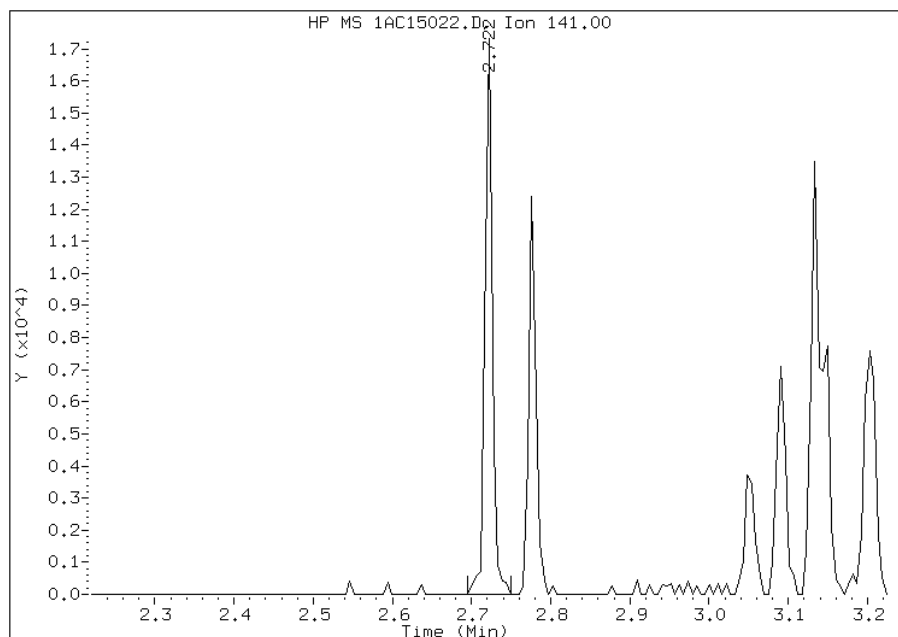
Processing Integration Results

RT: 2.72
Response: 9620
Amount: 2
Conc: 206



Manual Integration Results

RT: 2.72
Response: 10739
Amount: 3
Conc: 222



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:00
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0684B-CS-SP Lab Sample ID: 680-88118-11
 Matrix: Solid Lab File ID: 1AC15023.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 12:50
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.22(g) Date Analyzed: 03/15/2013 18:19
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 20.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	34	J	49	6.2
120-12-7	Anthracene	33		10	5.2
56-55-3	Benzo[a]anthracene	200		9.9	4.8
50-32-8	Benzo[a]pyrene	120	F	13	6.4
205-99-2	Benzo[b]fluoranthene	280		15	7.5
191-24-2	Benzo[g,h,i]perylene	120		25	5.4
207-08-9	Benzo[k]fluoranthene	58		9.9	4.5
218-01-9	Chrysene	180		11	5.6
53-70-3	Dibenz(a,h)anthracene	52		25	5.1
206-44-0	Fluoranthene	170		25	4.9
86-73-7	Fluorene	25	U	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	110		25	8.8
90-12-0	1-Methylnaphthalene	78		49	5.4
91-57-6	2-Methylnaphthalene	150		49	8.8
91-20-3	Naphthalene	96		49	5.4
85-01-8	Phenanthrene	180		9.9	4.8
129-00-0	Pyrene	170		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15023.D
 Lab Smp Id: 680-88118-A-11-A Client Smp ID: CV0684B-CS-SP
 Inj Date : 15-MAR-2013 18:19
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-11-a
 Misc Info : 680-88118-A-11-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.220	Weight Extracted
M	20.357	% 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	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.308	2.303	(1.000)	370075	40.0000		
* 6 Acenaphthene-d10	164		3.329	3.324	(1.000)	281759	40.0000		
* 10 Phenanthrene-d10	188		4.253	4.248	(1.000)	432787	40.0000		
\$ 14 o-Terphenyl	230		4.531	4.526	(1.065)	34734	6.16225	508.3639	
* 18 Chrysene-d12	240		6.261	6.246	(1.000)	323520	40.0000		
* 23 Perylene-d12	264		7.357	7.330	(1.000)	386560	40.0000		(H)
2 Naphthalene	128		2.319	2.314	(1.005)	9903	1.15825	95.5514	
3 2-Methylnaphthalene	141		2.720	2.715	(1.178)	5186	1.86961	154.2361	
4 1-Methylnaphthalene	142		2.778	2.773	(1.204)	4662	0.94825	78.2274	
5 Acenaphthylene	152		3.243	3.238	(0.974)	2517	0.41641	34.3526	
11 Phenanthrene	178		4.269	4.264	(1.004)	23348	2.12857	175.5996	
12 Anthracene	178		4.301	4.296	(1.011)	4243	0.39894	32.9109	
13 Carbazole	167		4.472	4.456	(1.051)	2737	0.29361	24.2215	
15 Fluoranthene	202		5.124	5.113	(1.205)	21874	2.01740	166.4287	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
16 Pyrene	202	5.284	5.279	(0.844)	19035	2.05206	169.2874
17 Benzo(a)anthracene	228	6.251	6.235	(0.998)	21064	2.41361	199.1141
19 Chrysene	228	6.272	6.262	(1.002)	17946	2.14171	176.6835
20 Benzo(b)fluoranthene	252	7.073	7.052	(0.962)	23454	3.40461	280.8681(MH)
21 Benzo(k)fluoranthene	252	7.089	7.074	(0.964)	7350	0.70489	58.1511(QMH)
22 Benzo(a)pyrene	252	7.298	7.282	(0.992)	13290	1.46498	120.8560(H)
24 Indeno(1,2,3-cd)pyrene	276	8.062	8.035	(1.096)	10901	1.33175	109.8644(MH)
25 Dibenzo(a,h)anthracene	278	8.067	8.045	(1.097)	5122	0.63136	52.0853(H)
26 Benzo(g,h,i)perylene	276	8.249	8.222	(1.121)	12069	1.46477	120.8382(H)

QC Flag Legend

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

Data File: 1AC15023.D

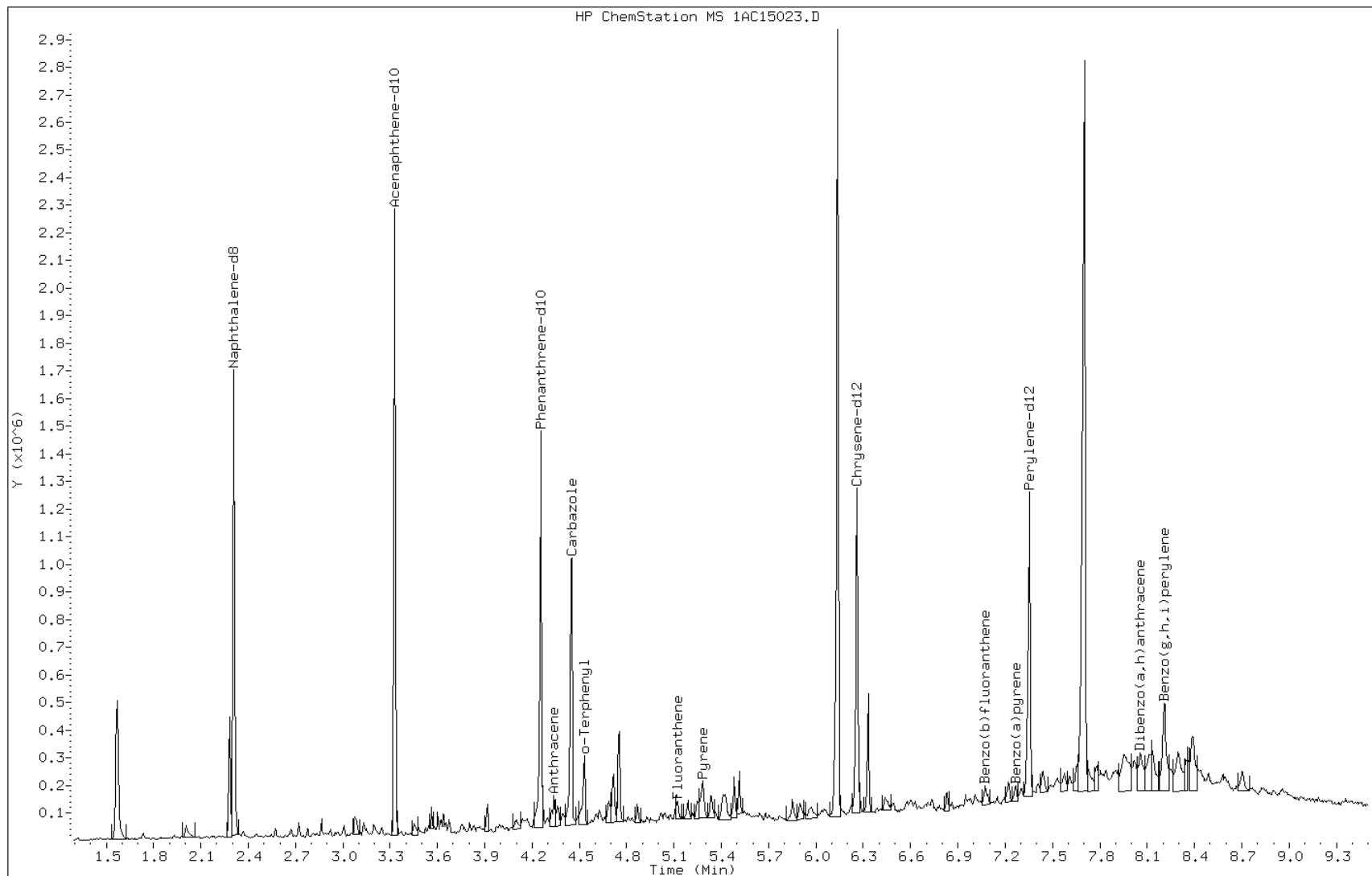
Date: 15-MAR-2013 18:19

Client ID: CV0684B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-a

Operator: SCC



Data File: 1AC15023.D

Date: 15-MAR-2013 18:19

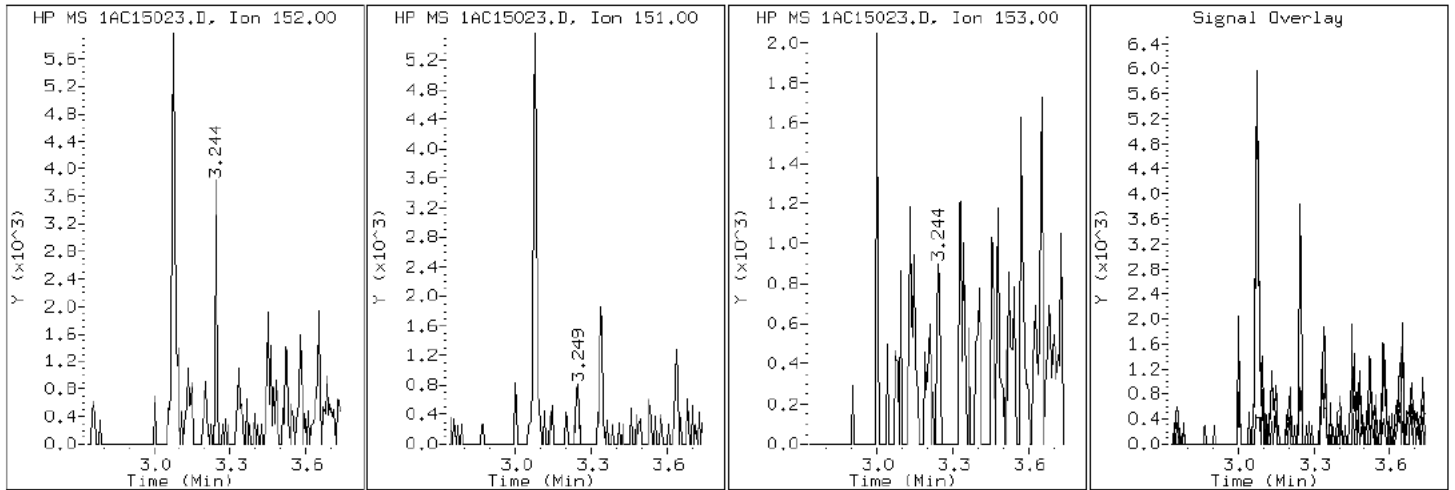
Client ID: CV0684B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15023.D

Date: 15-MAR-2013 18:19

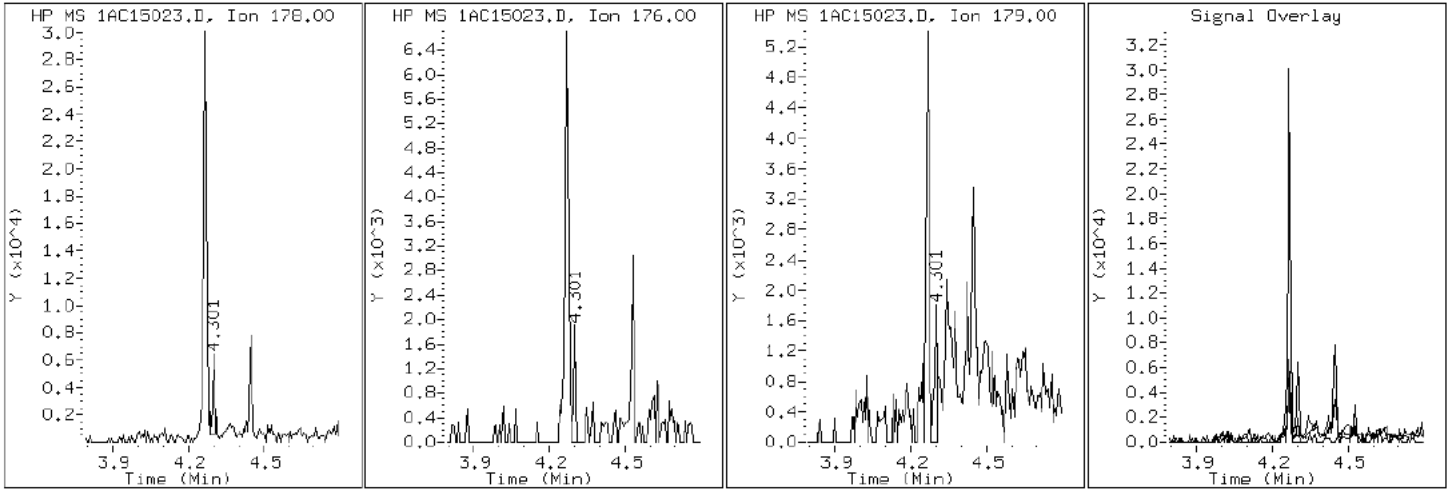
Client ID: CV0684B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-a

Operator: SCC

12 Anthracene



Data File: 1AC15023.D

Date: 15-MAR-2013 18:19

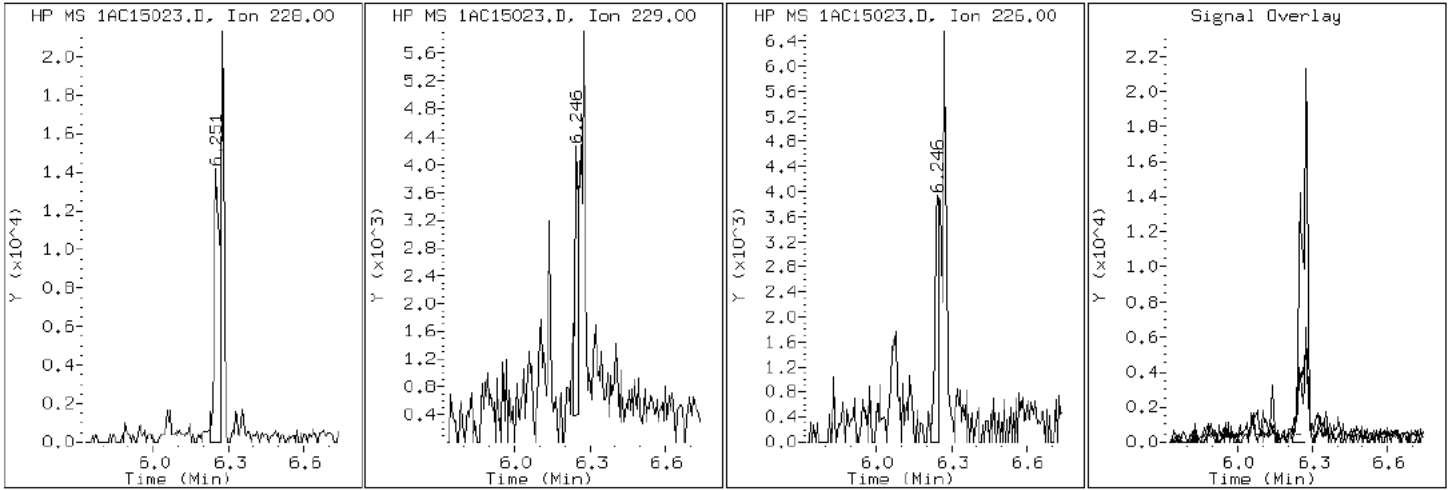
Client ID: CV0684B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15023.D

Date: 15-MAR-2013 18:19

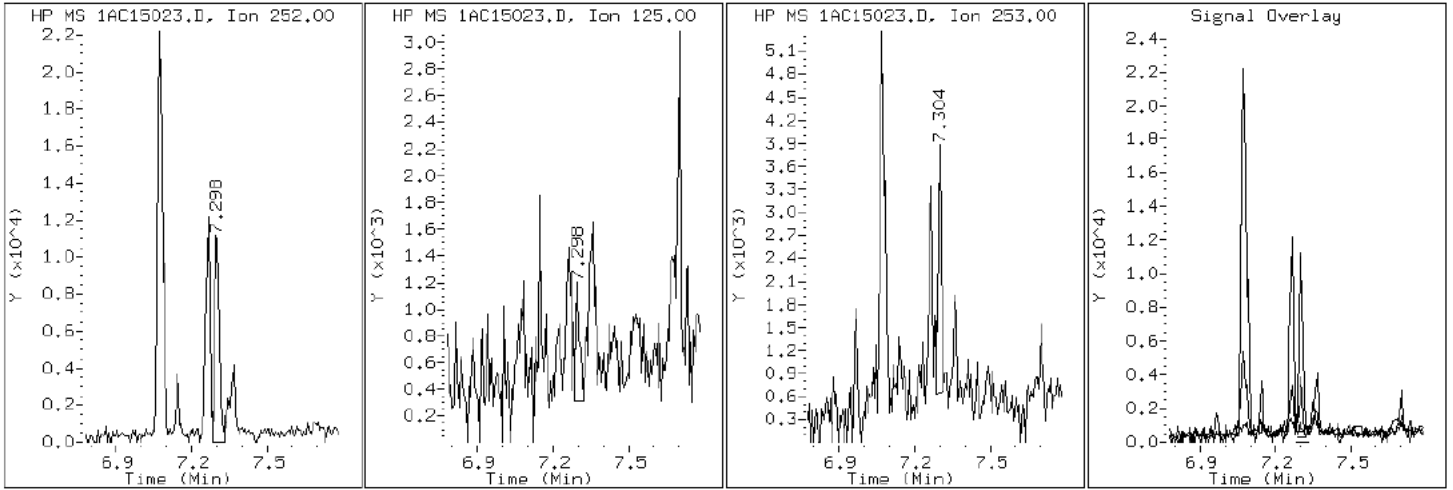
Client ID: CV0684B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15023.D

Date: 15-MAR-2013 18:19

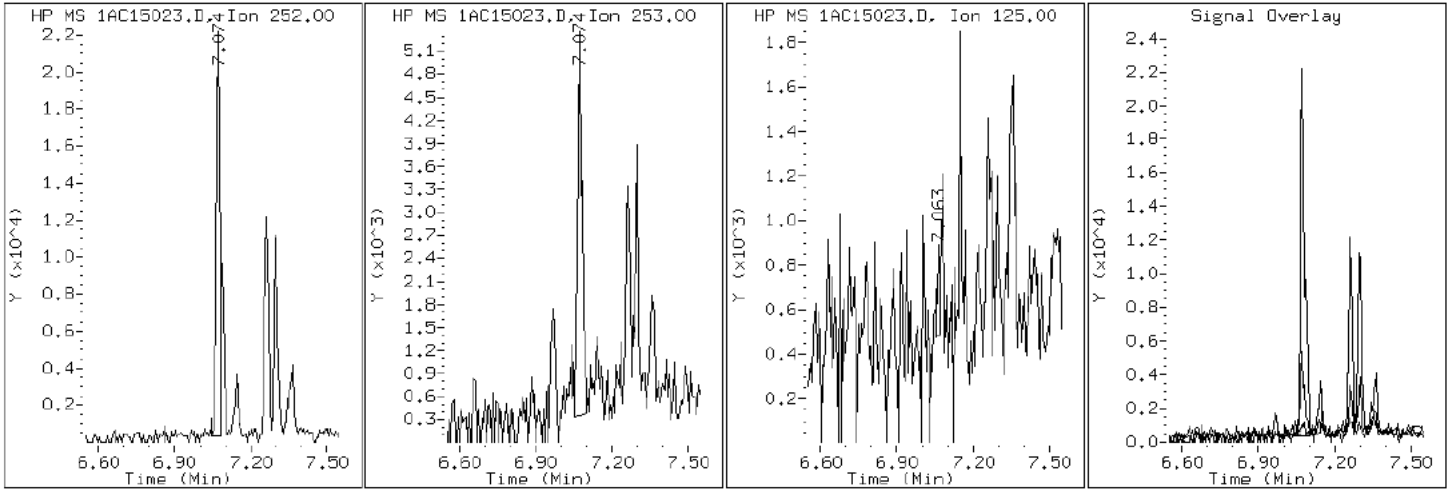
Client ID: CV0684B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15023.D

Date: 15-MAR-2013 18:19

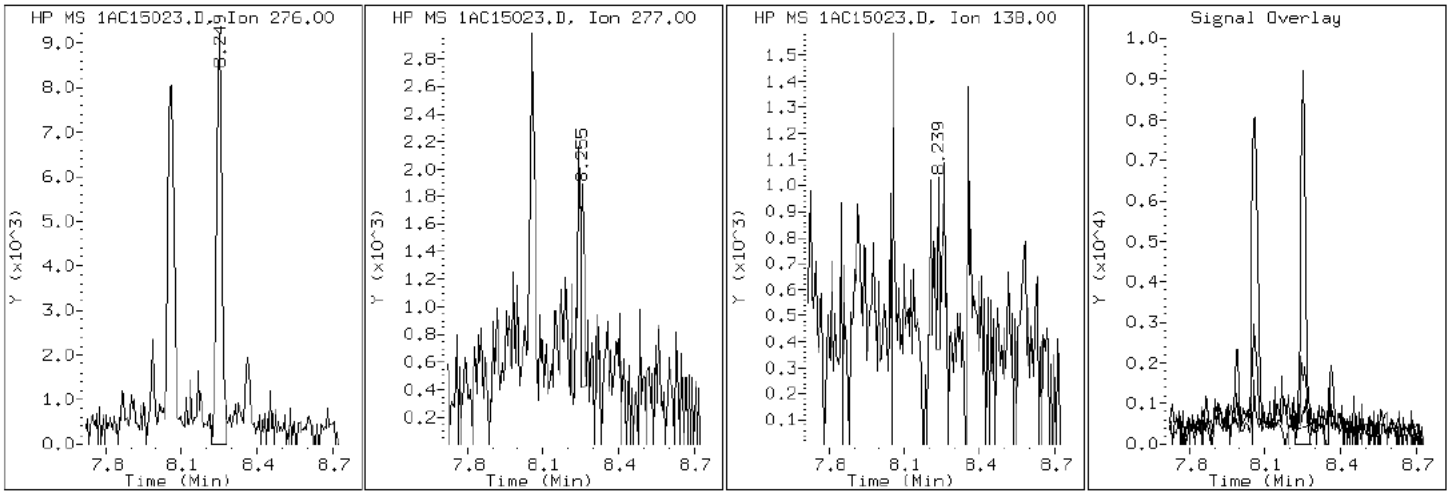
Client ID: CV0684B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15023.D

Date: 15-MAR-2013 18:19

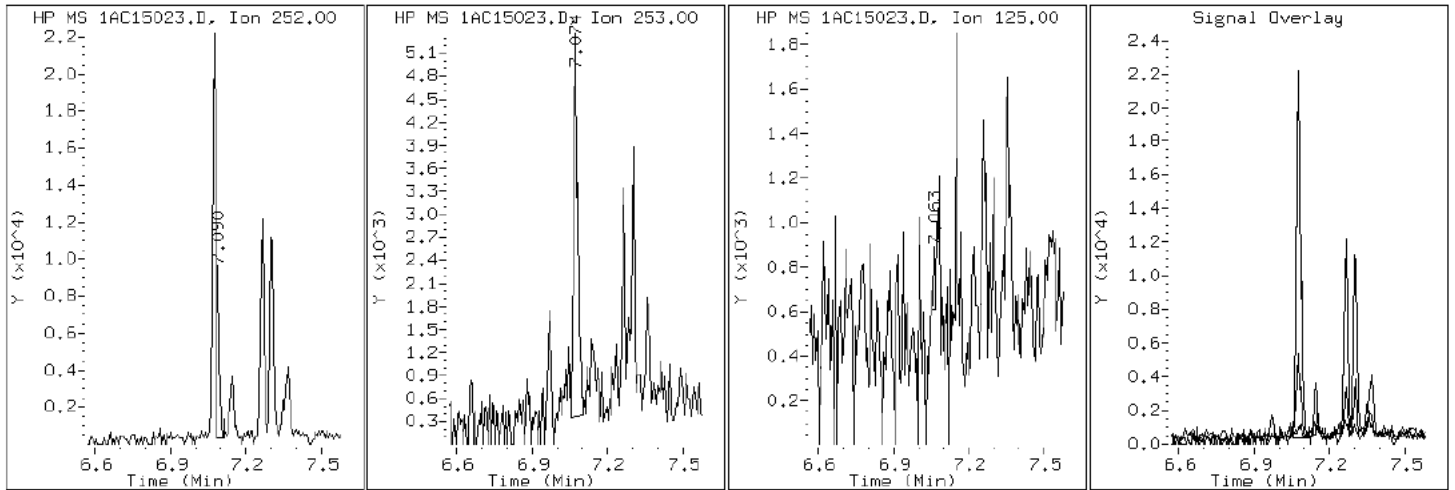
Client ID: CV0684B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15023.D

Date: 15-MAR-2013 18:19

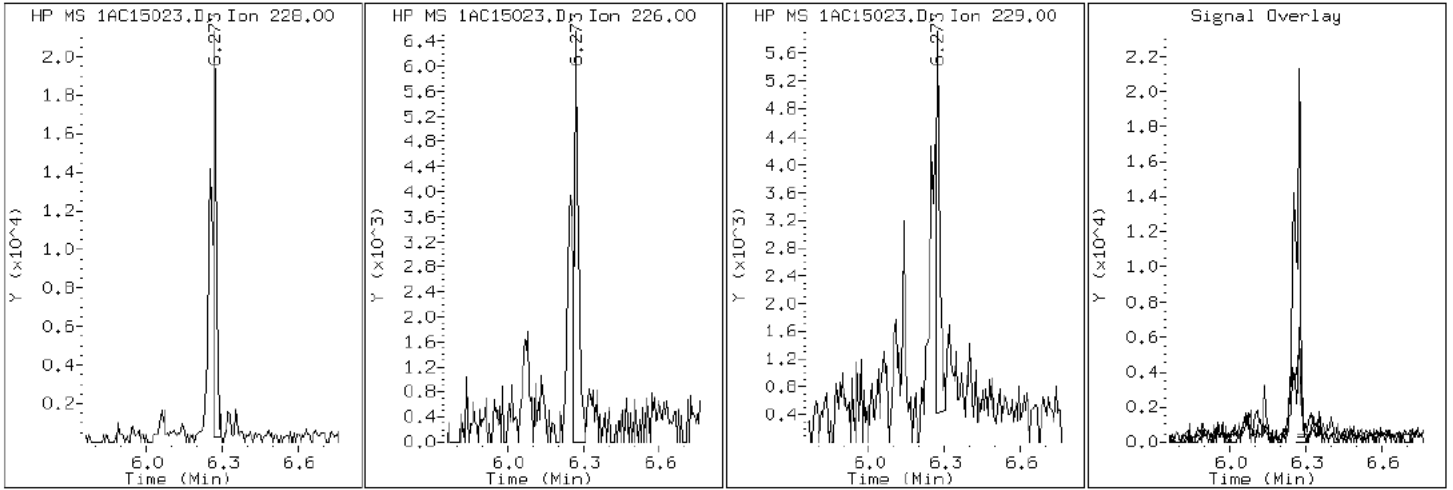
Client ID: CV0684B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-a

Operator: SCC

19 Chrysene



Data File: 1AC15023.D

Date: 15-MAR-2013 18:19

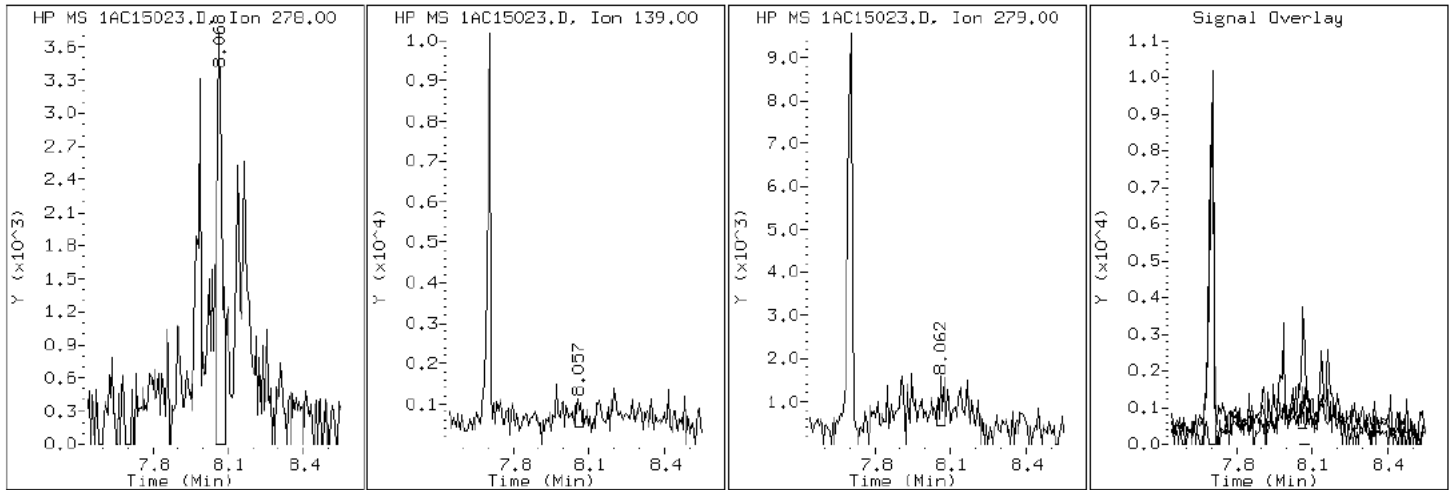
Client ID: CV0684B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC15023.D

Date: 15-MAR-2013 18:19

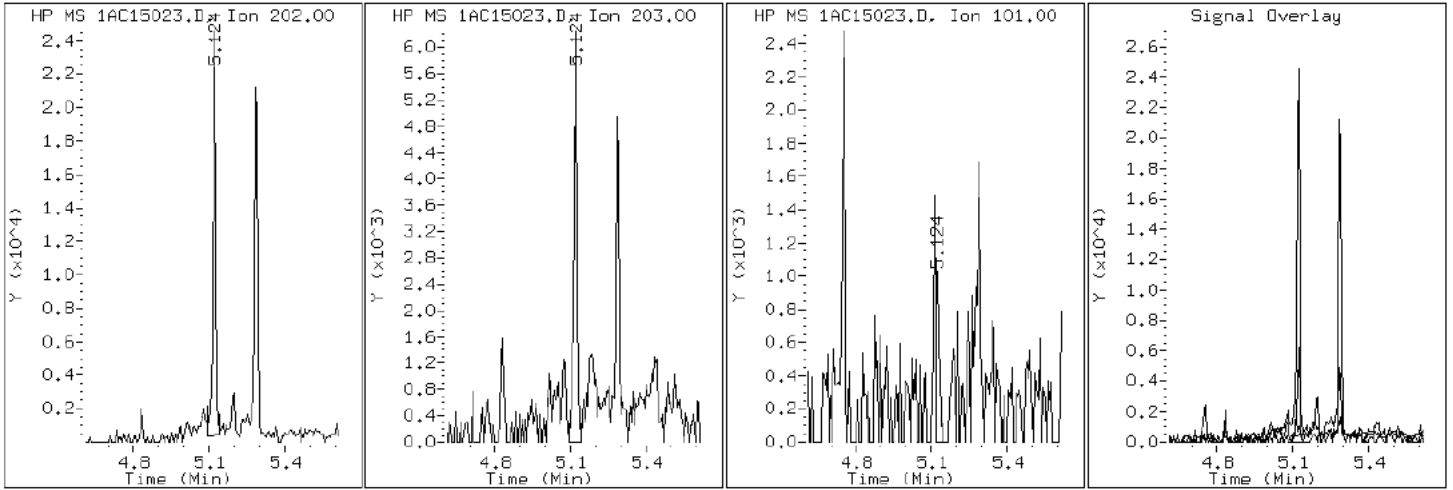
Client ID: CV0684B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15023.D

Date: 15-MAR-2013 18:19

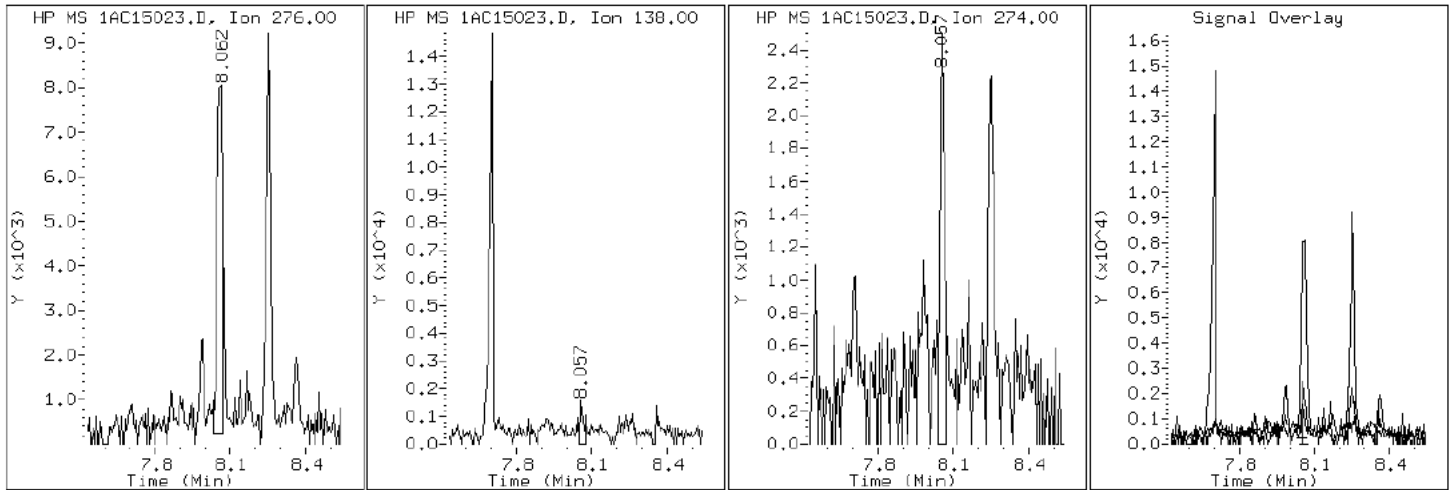
Client ID: CV0684B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-a

Operator: SCC

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



Data File: 1AC15023.D

Date: 15-MAR-2013 18:19

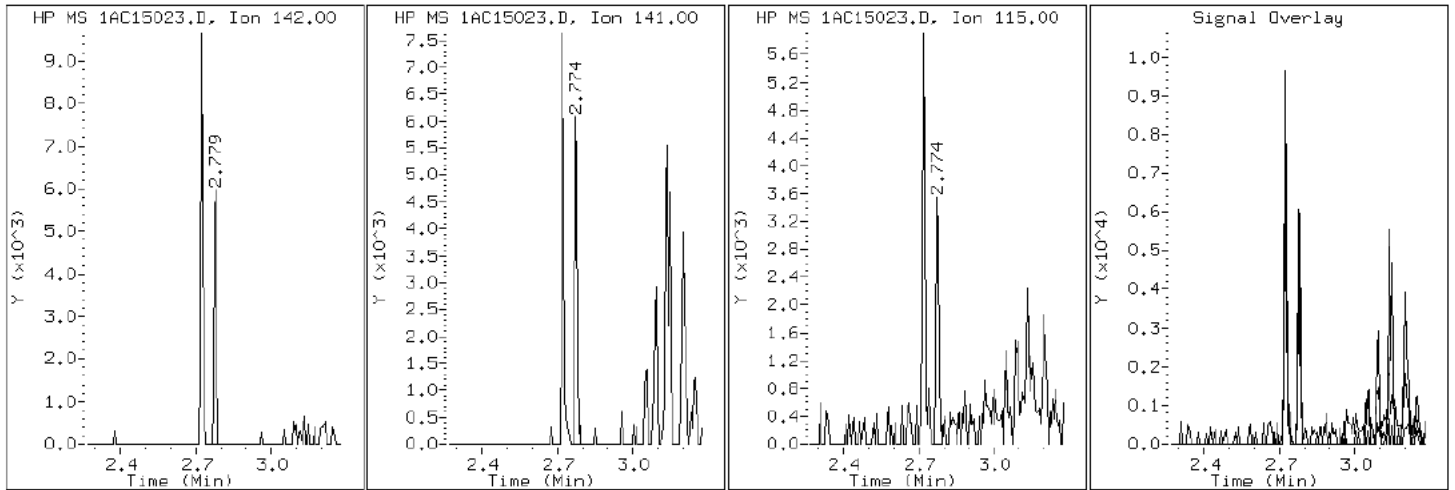
Client ID: CV0684B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15023.D

Date: 15-MAR-2013 18:19

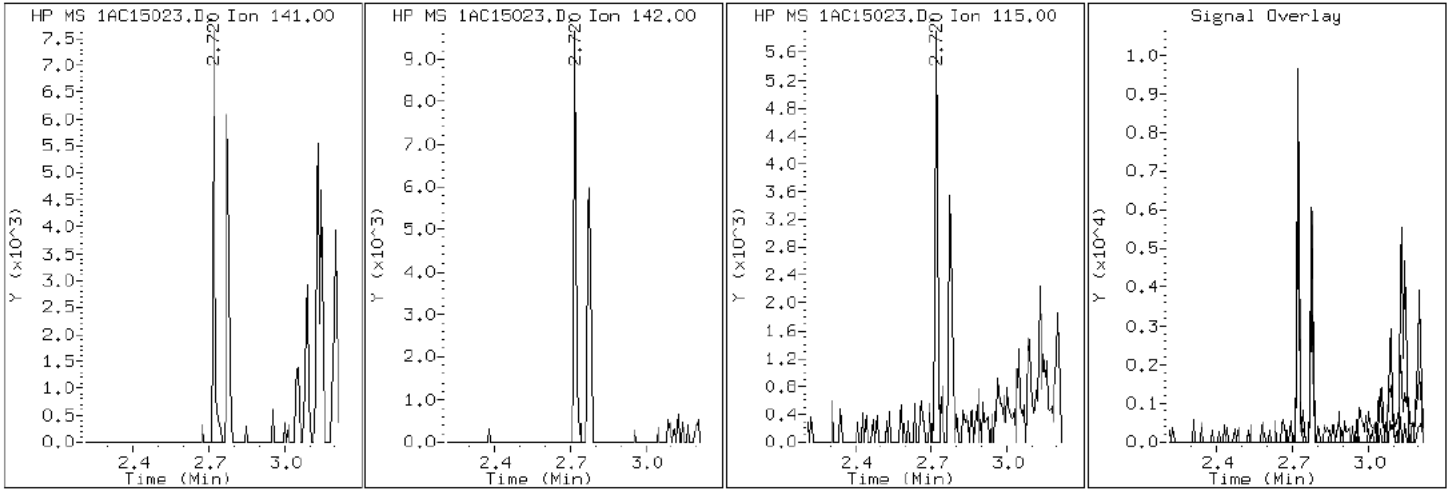
Client ID: CV0684B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15023.D

Date: 15-MAR-2013 18:19

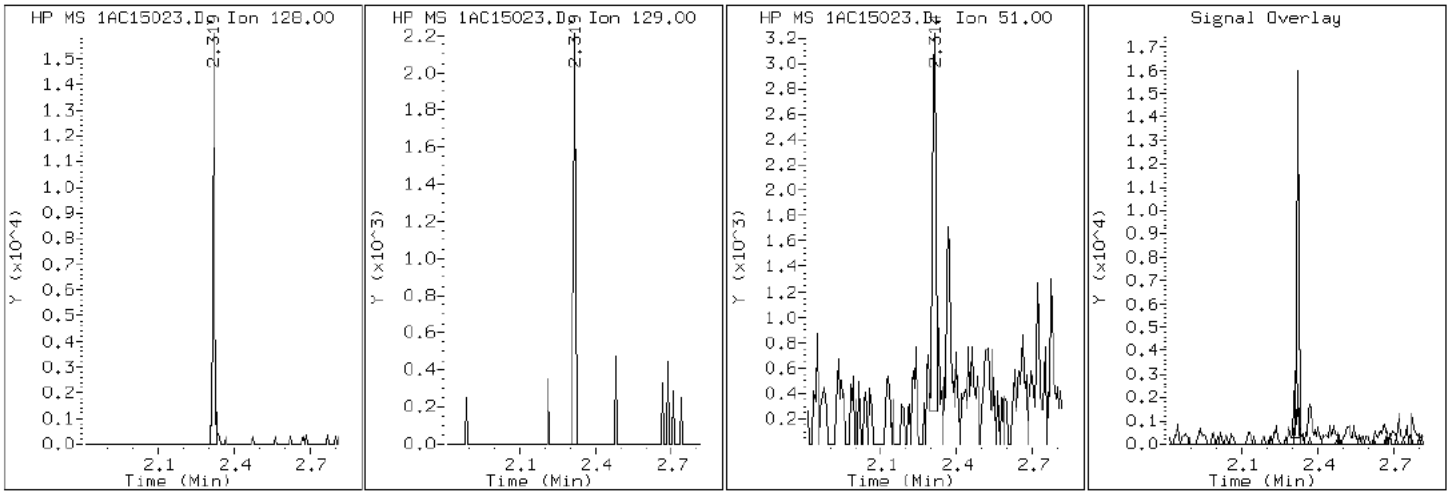
Client ID: CV0684B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-a

Operator: SCC

2 Naphthalene



Data File: 1AC15023.D

Date: 15-MAR-2013 18:19

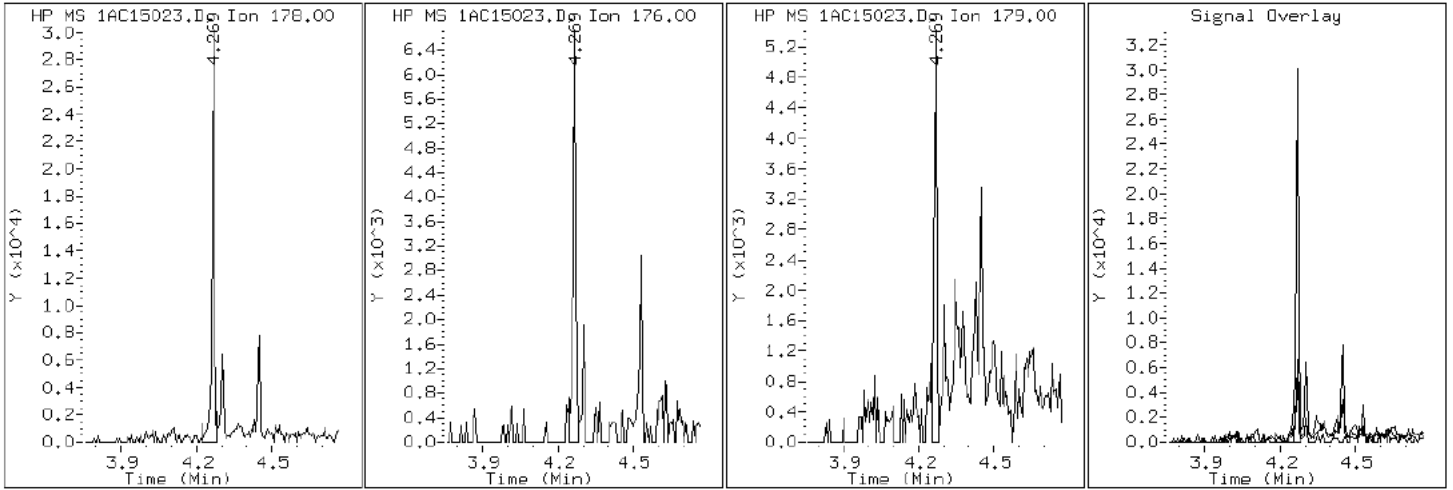
Client ID: CV0684B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15023.D

Date: 15-MAR-2013 18:19

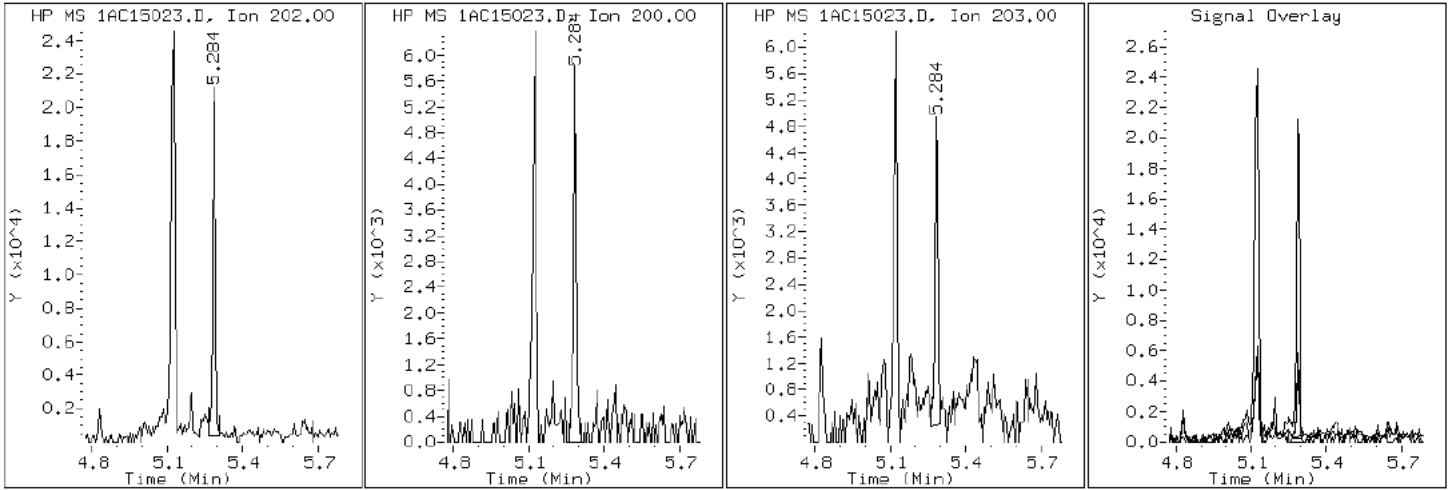
Client ID: CV0684B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-a

Operator: SCC

16 Pyrene

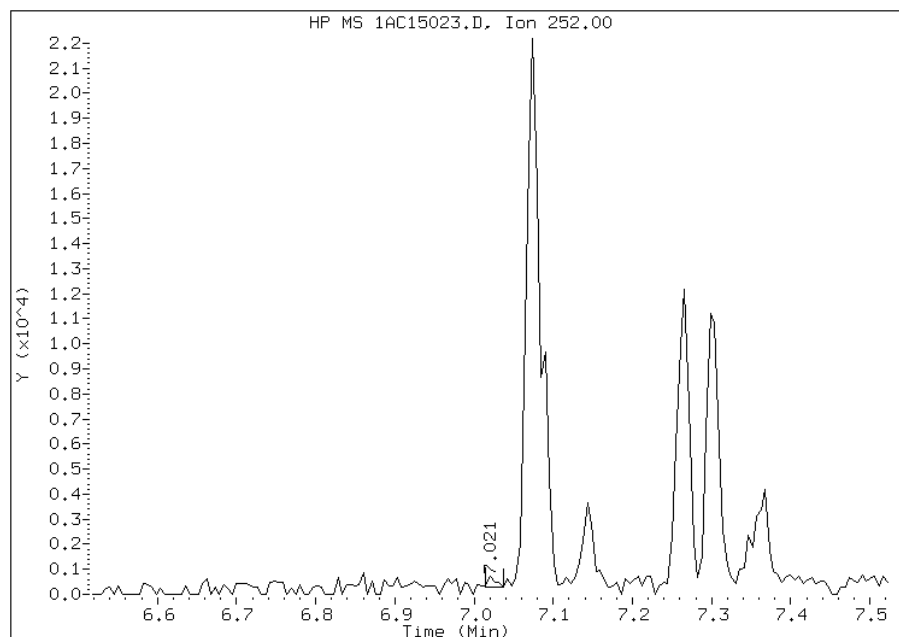


Manual Integration Report

Data File: 1AC15023.D
Inj. Date and Time: 15-MAR-2013 18:19
Instrument ID: BSMA5973.i
Client ID: CV0684B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

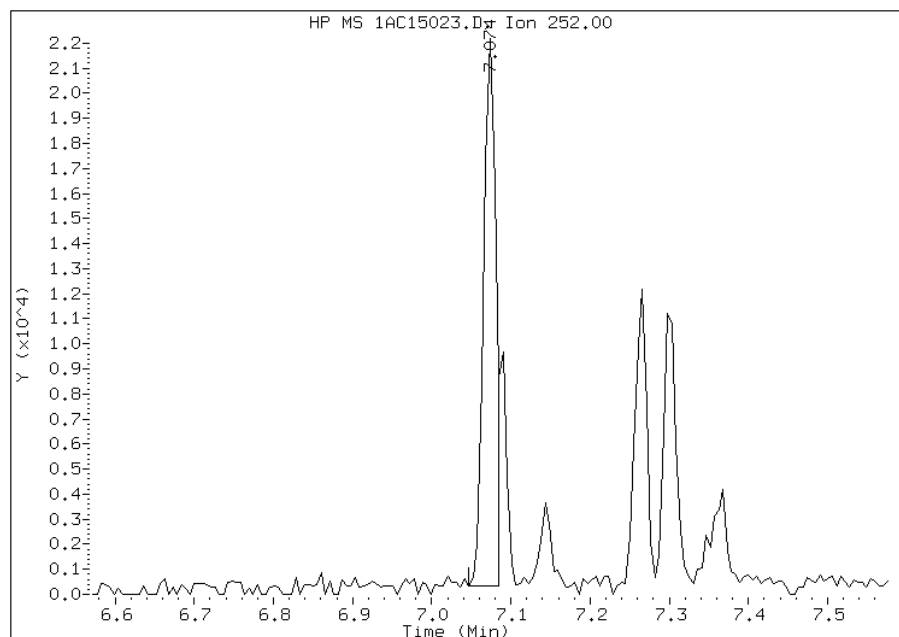
Processing Integration Results

RT: 7.02
Response: 269
Amount: 1
Conc: 101



Manual Integration Results

RT: 7.07
Response: 23454
Amount: 3
Conc: 281



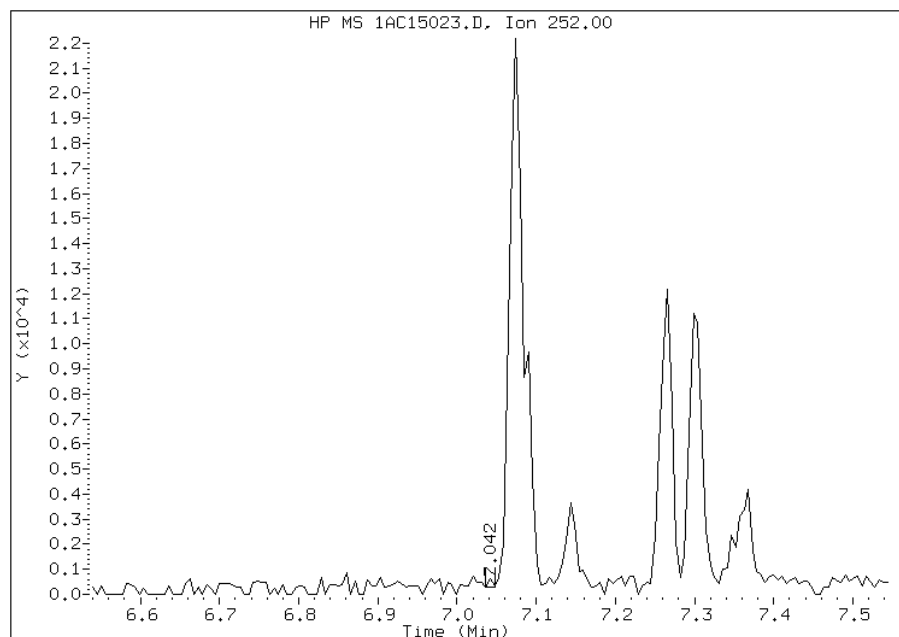
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:03
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15023.D
Inj. Date and Time: 15-MAR-2013 18:19
Instrument ID: BSMA5973.i
Client ID: CV0684B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

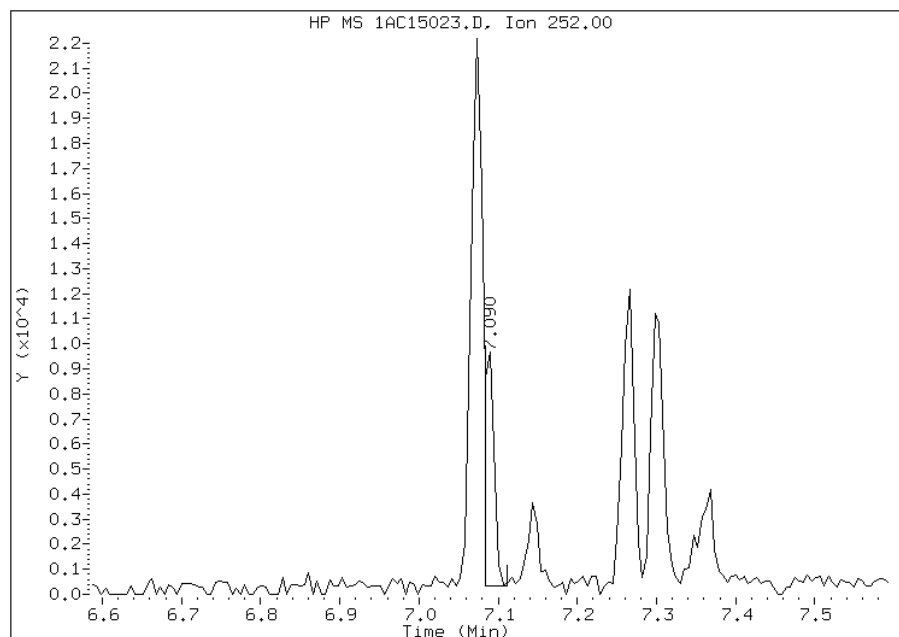
Processing Integration Results

RT: 7.04
Response: 128
Amount: 0
Conc: 1



Manual Integration Results

RT: 7.09
Response: 7350
Amount: 1
Conc: 58



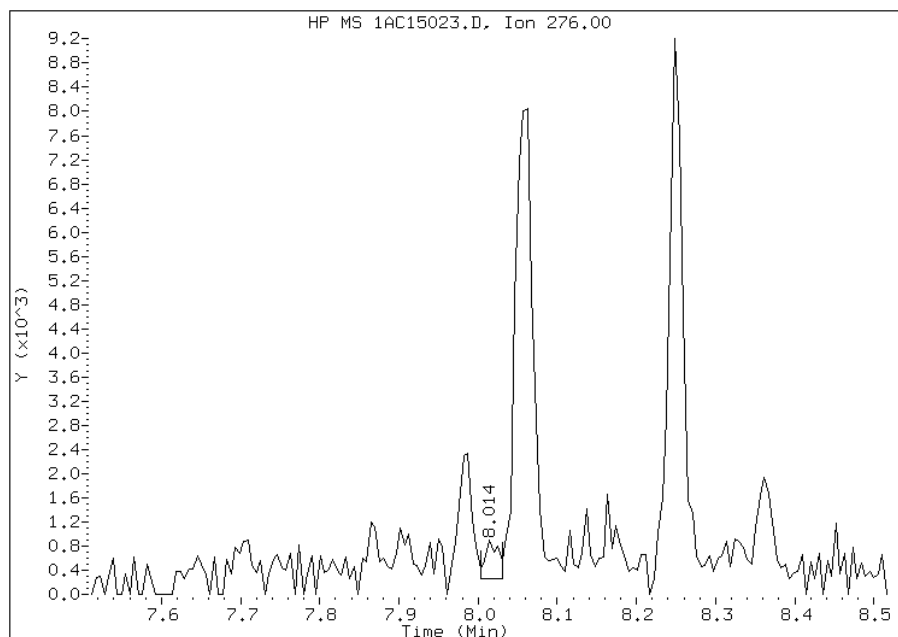
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:03
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15023.D
Inj. Date and Time: 15-MAR-2013 18:19
Instrument ID: BSMA5973.i
Client ID: CV0684B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

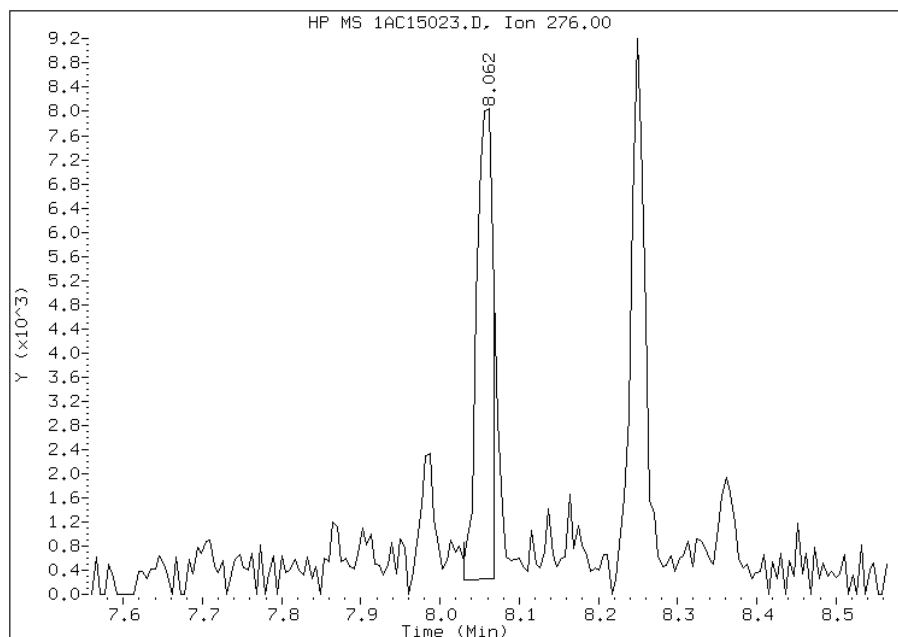
Processing Integration Results

RT: 8.01
Response: 756
Amount: 0
Conc: 8



Manual Integration Results

RT: 8.06
Response: 10901
Amount: 1
Conc: 110



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0684C-GS-SP Lab Sample ID: 680-88118-12
 Matrix: Solid Lab File ID: 1AC15026.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 13:01
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.02(g) Date Analyzed: 03/15/2013 19:05
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 27.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	200	J	550	110
208-96-8	Acenaphthylene	200	J	220	27
120-12-7	Anthracene	200		46	23
56-55-3	Benzo[a]anthracene	730		44	21
50-32-8	Benzo[a]pyrene	370		57	28
205-99-2	Benzo[b]fluoranthene	1000		67	33
191-24-2	Benzo[g,h,i]perylene	410		110	24
207-08-9	Benzo[k]fluoranthene	220		44	20
218-01-9	Chrysene	900		49	25
53-70-3	Dibenz(a,h)anthracene	160		110	22
206-44-0	Fluoranthene	910		110	22
86-73-7	Fluorene	260		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	310		110	39
90-12-0	1-Methylnaphthalene	660		220	24
91-57-6	2-Methylnaphthalene	920		220	39
91-20-3	Naphthalene	650		220	24
85-01-8	Phenanthrene	1200		44	21
129-00-0	Pyrene	890		110	20

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15026.D
 Lab Smp Id: 680-88118-A-12-A Client Smp ID: CV0684C-GS-SP
 Inj Date : 15-MAR-2013 19:05
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-12-a
 Misc Info : 680-88118-A-12-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 26
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	27.087	% 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	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136	2.307	2.303	(1.000)	424081	40.0000	
* 6 Acenaphthene-d10	164	3.333	3.324	(1.000)	357872	40.0000	
* 10 Phenanthrene-d10	188	4.263	4.248	(1.000)	558637	40.0000	
\$ 14 o-Terphenyl	230	4.530	4.526	(1.063)	11643	1.68706	616.1947
* 18 Chrysene-d12	240	6.266	6.246	(1.000)	433191	40.0000	
* 23 Perylene-d12	264	7.361	7.330	(1.000)	515661	40.0000	(H)
2 Naphthalene	128	2.318	2.314	(1.005)	17366	1.77246	647.3840
3 2-Methylnaphthalene	141	2.724	2.715	(1.181)	9880	2.52464	922.1167
4 1-Methylnaphthalene	142	2.777	2.773	(1.204)	10133	1.79858	656.9265
5 Acenaphthylene	152	3.248	3.238	(0.974)	4826	0.54489	199.0184
7 Acenaphthene	154	3.349	3.345	(1.005)	1053	0.56044	204.6987(Q)
9 Fluorene	166	3.654	3.649	(1.096)	4503	0.71985	262.9242
11 Phenanthrene	178	4.273	4.264	(1.002)	45081	3.18402	1162.9540
12 Anthracene	178	4.305	4.296	(1.010)	7520	0.54777	200.0695

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.471	4.456 (1.049)		4044	0.33608	122.7533
15 Fluoranthene	202	5.123	5.113 (1.202)		34866	2.49121	909.9078
16 Pyrene	202	5.288	5.279 (0.844)		30229	2.43378	888.9308
17 Benzo(a)anthracene	228	6.255	6.235 (0.998)		22868	1.98878	726.3970
19 Chrysene	228	6.277	6.262 (1.002)		27513	2.45218	895.6508
20 Benzo(b)fluoranthene	252	7.078	7.052 (0.962)		23475	2.85481	1042.7111(MH)
21 Benzo(k)fluoranthene	252	7.089	7.074 (0.963)		8430	0.60606	221.3614(QMH)
22 Benzo(a)pyrene	252	7.302	7.282 (0.992)		12252	1.01244	369.7888(H)
24 Indeno(1,2,3-cd)pyrene	276	8.066	8.035 (1.096)		9289	0.85070	310.7155(MH)
25 Dibenzo(a,h)anthracene	278	8.072	8.045 (1.097)		4663	0.43088	157.3781(QH)
26 Benzo(g,h,i)perylene	276	8.258	8.222 (1.122)		12460	1.13362	414.0515(H)

QC Flag Legend

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

Data File: 1AC15026.D

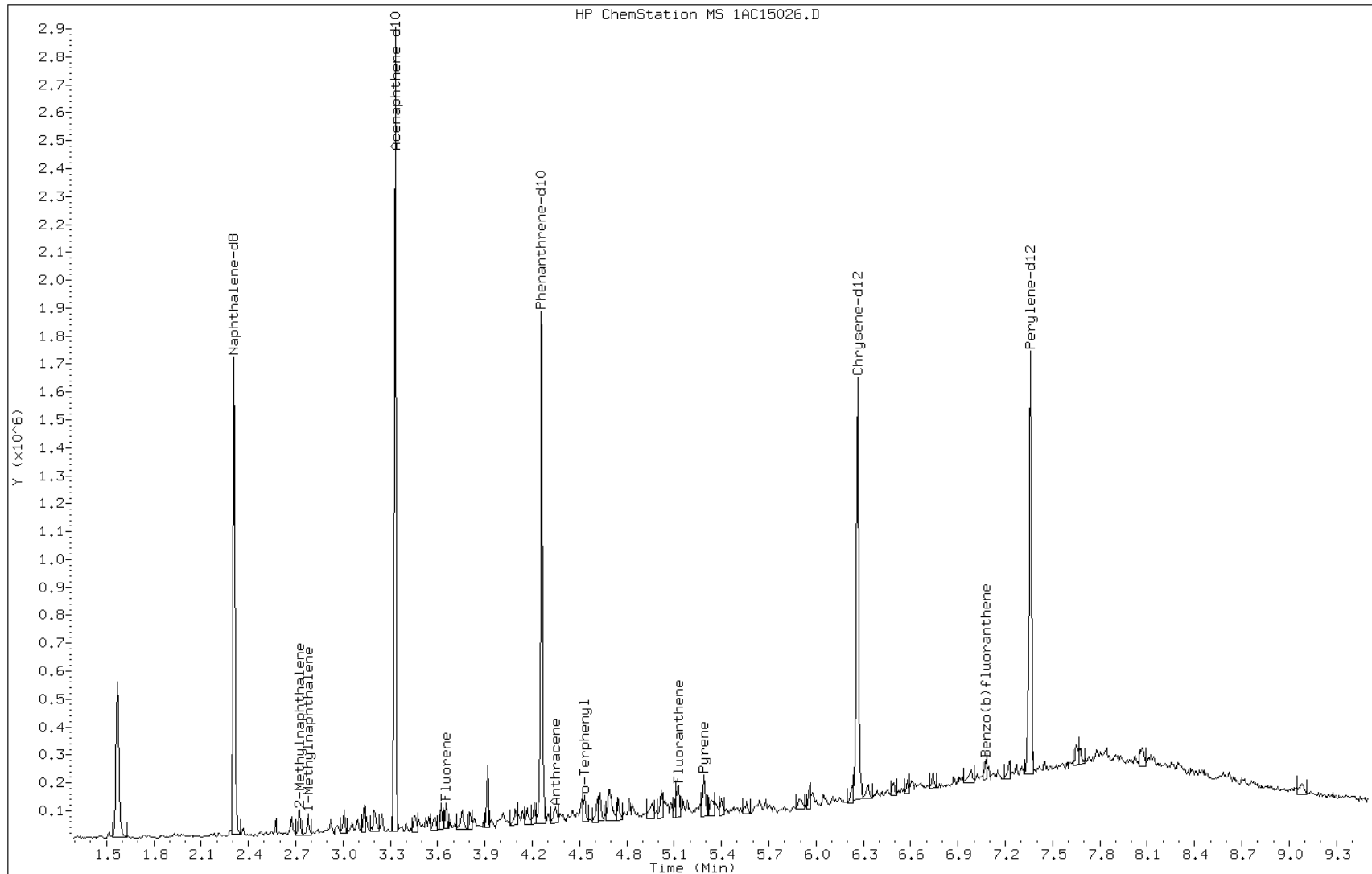
Date: 15-MAR-2013 19:05

Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

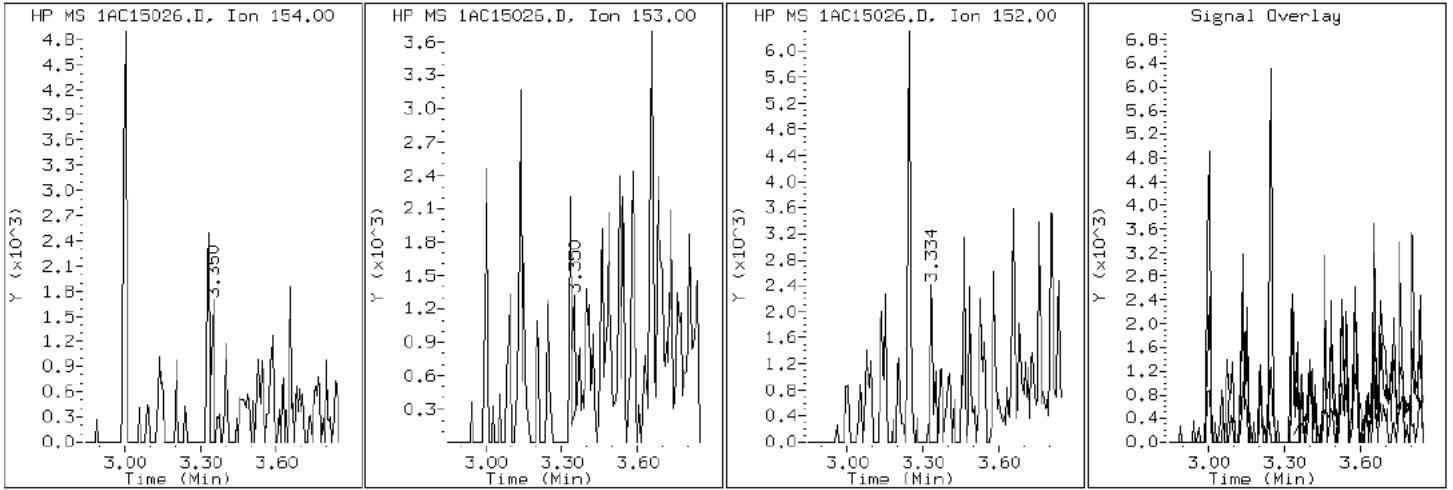
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

7 Acenaphthene



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

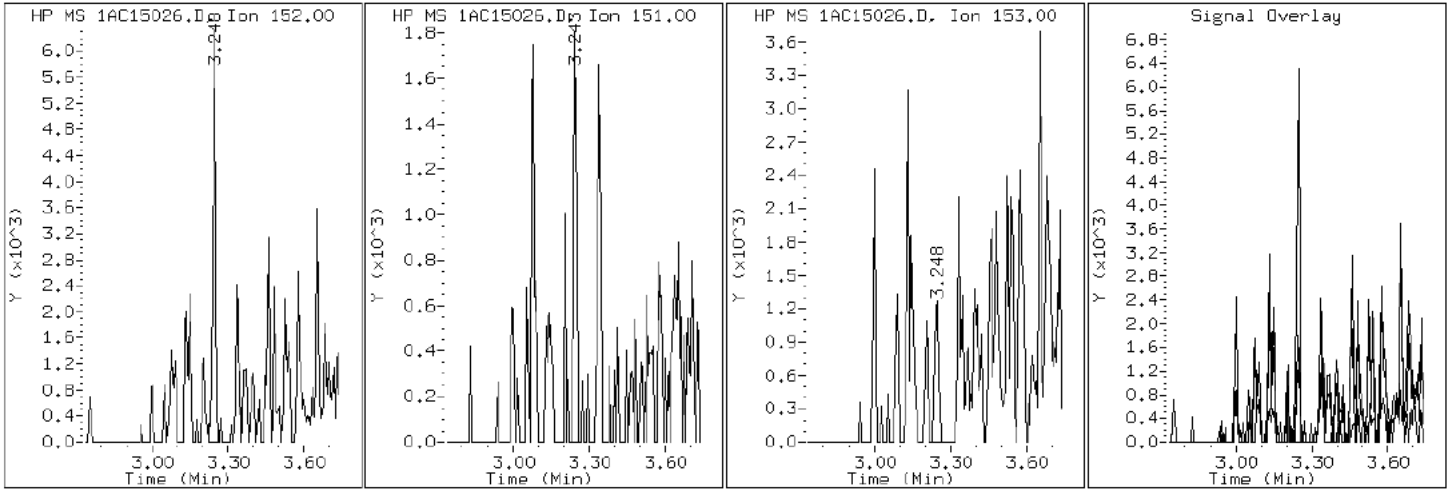
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

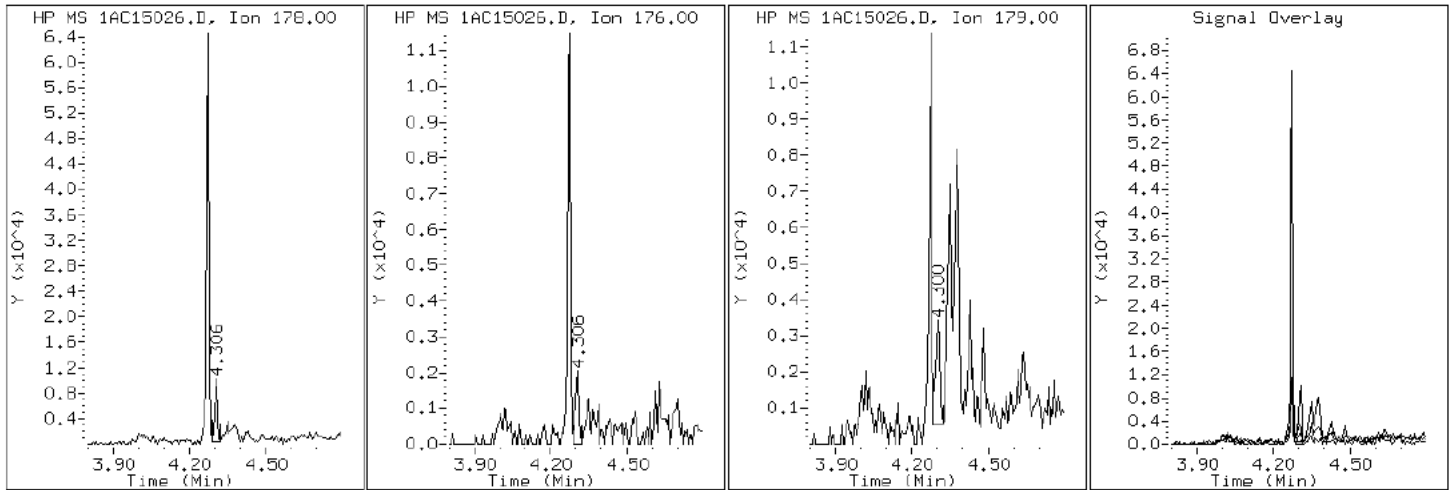
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

12 Anthracene



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

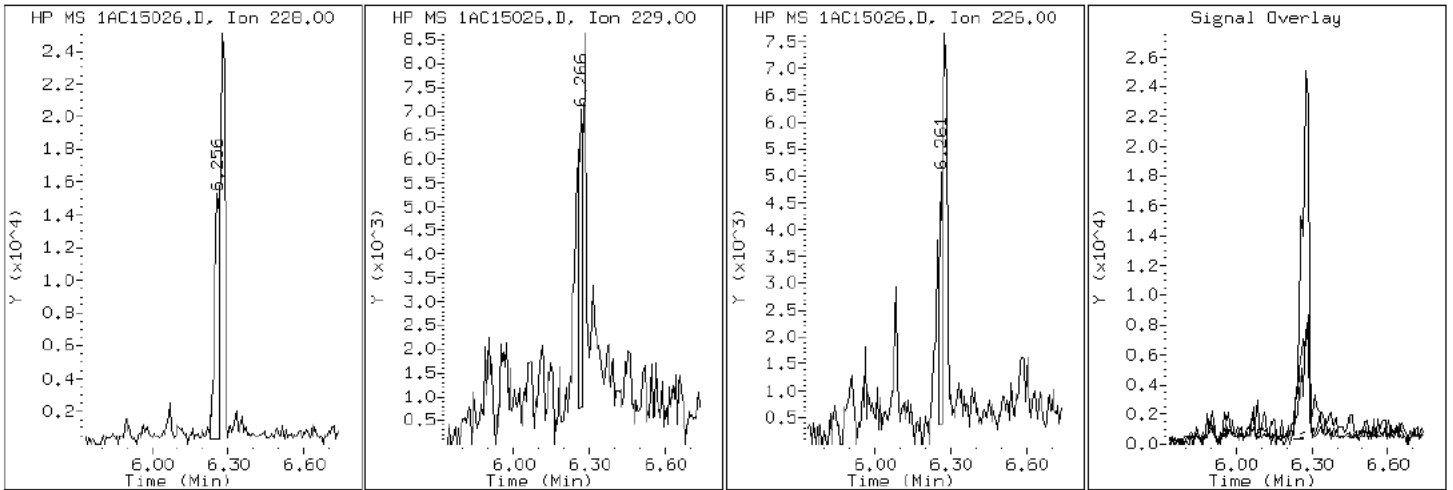
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

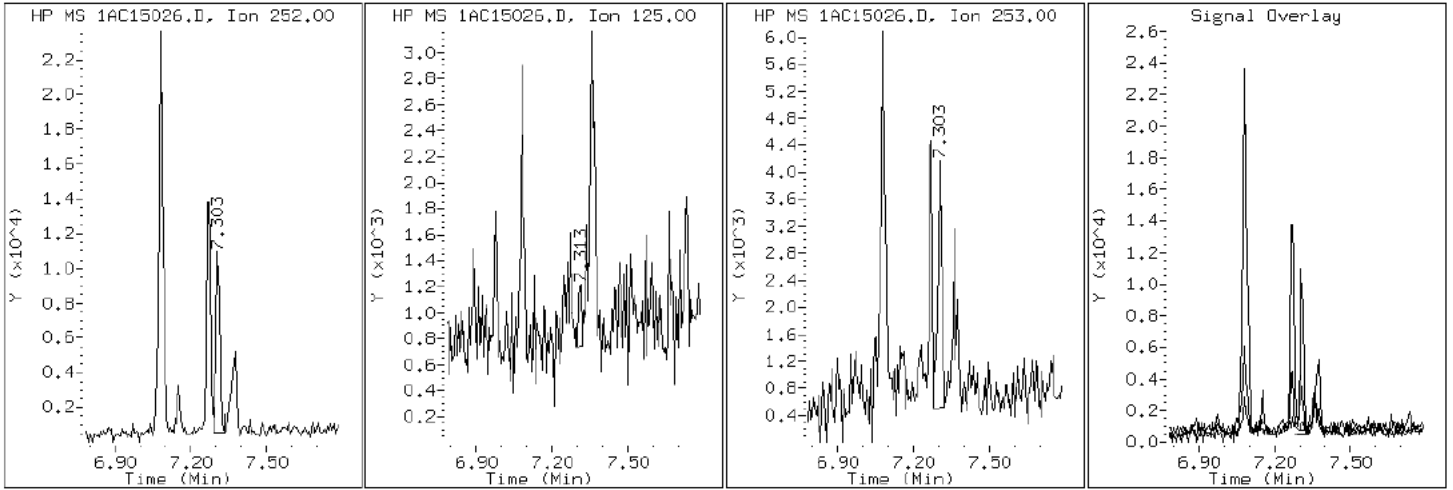
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

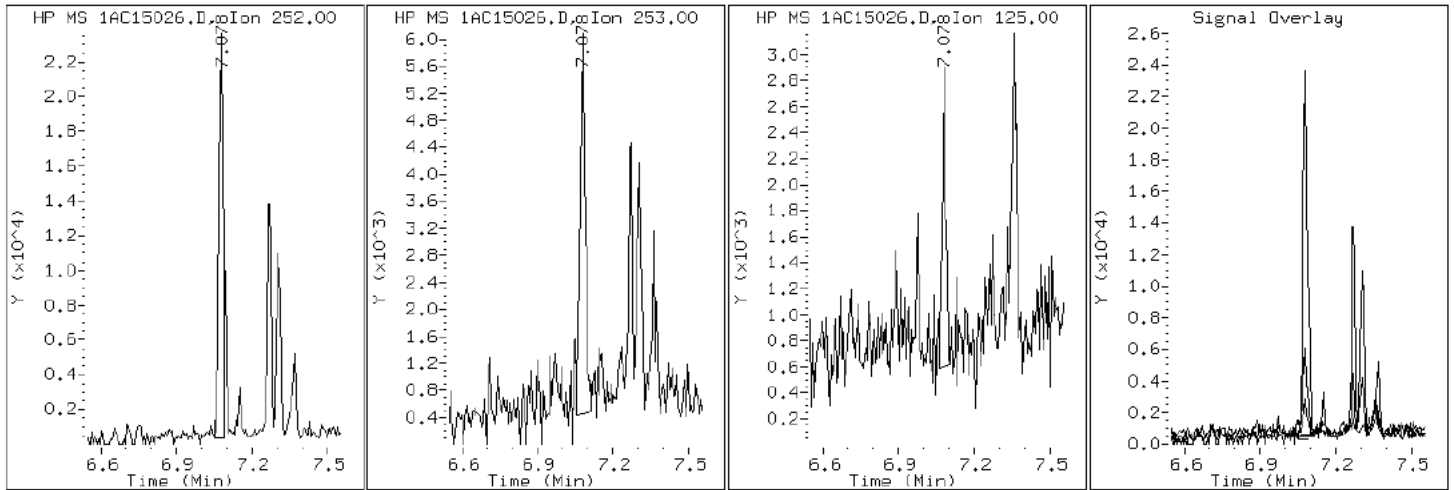
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

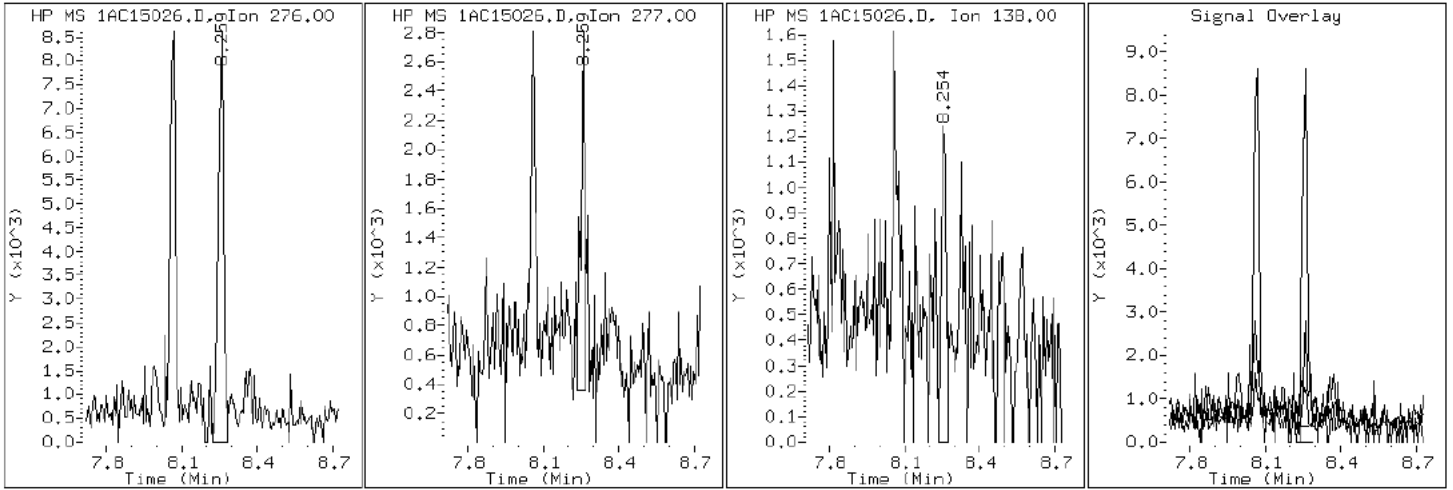
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

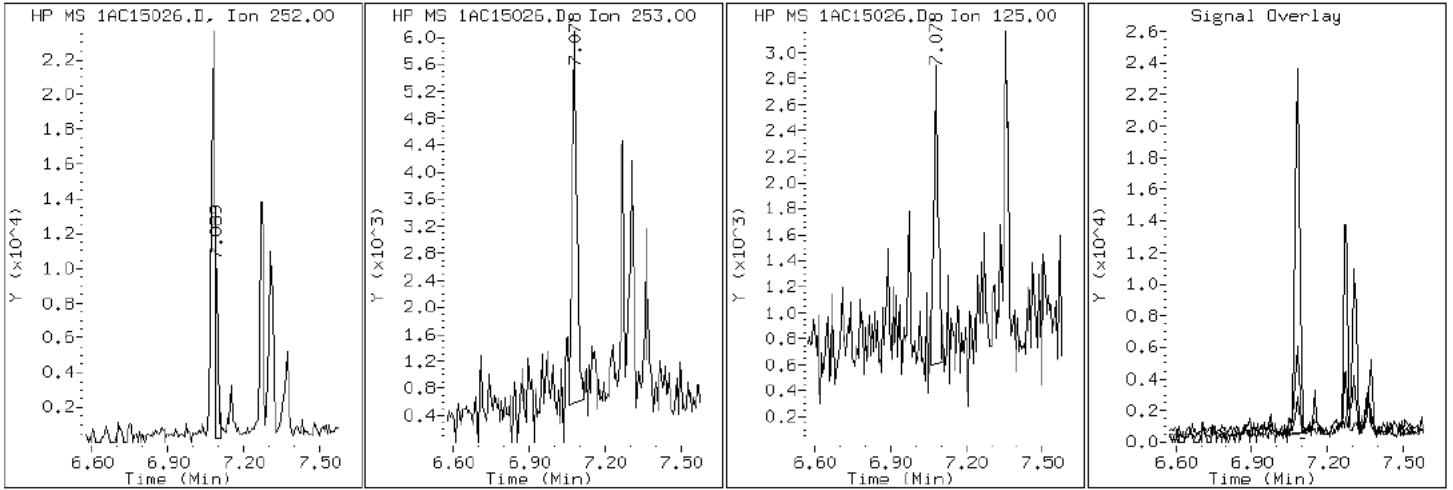
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

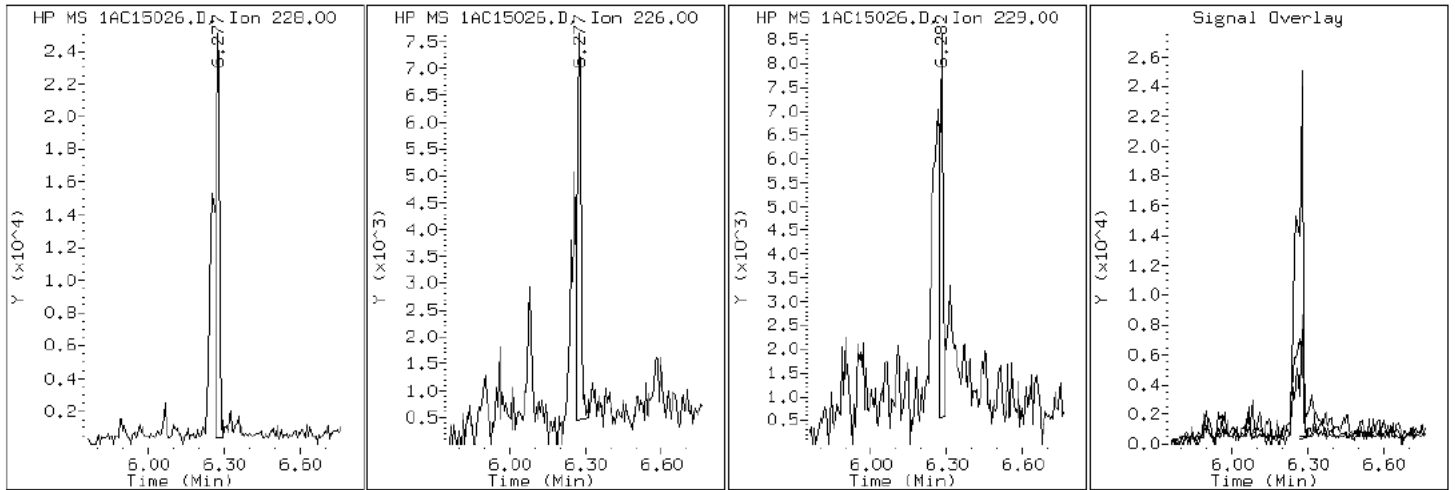
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

19 Chrysene



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

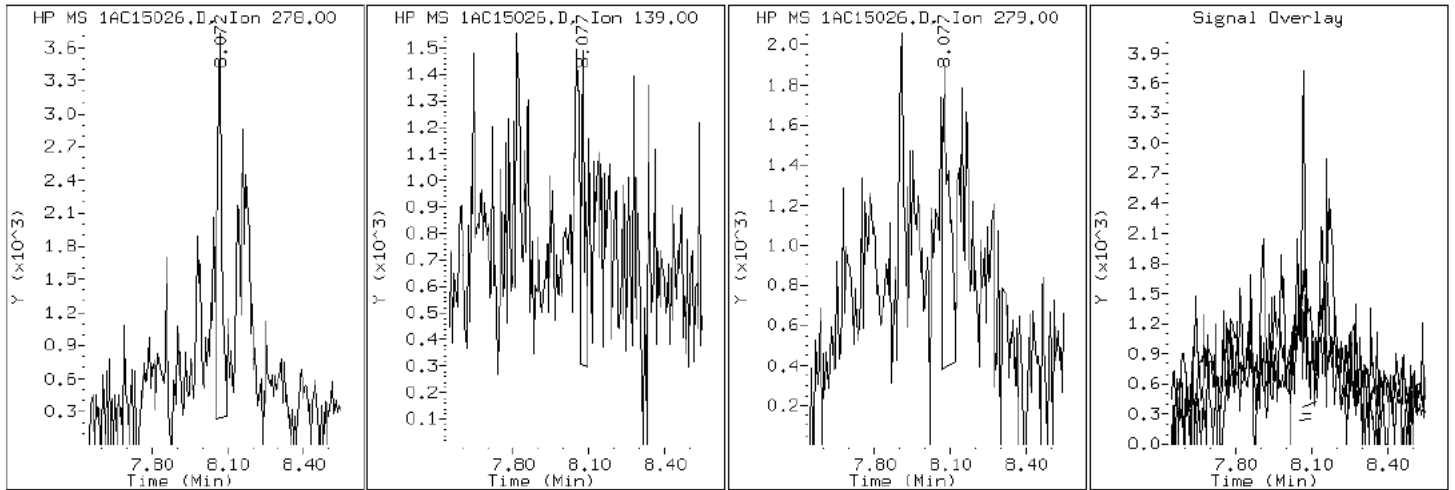
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

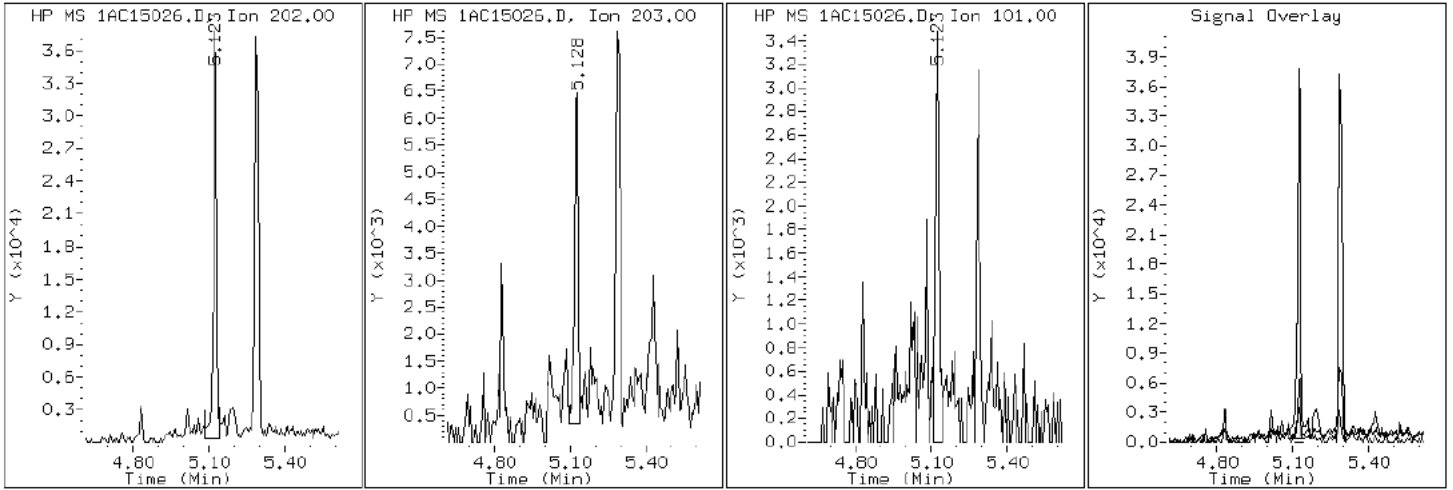
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

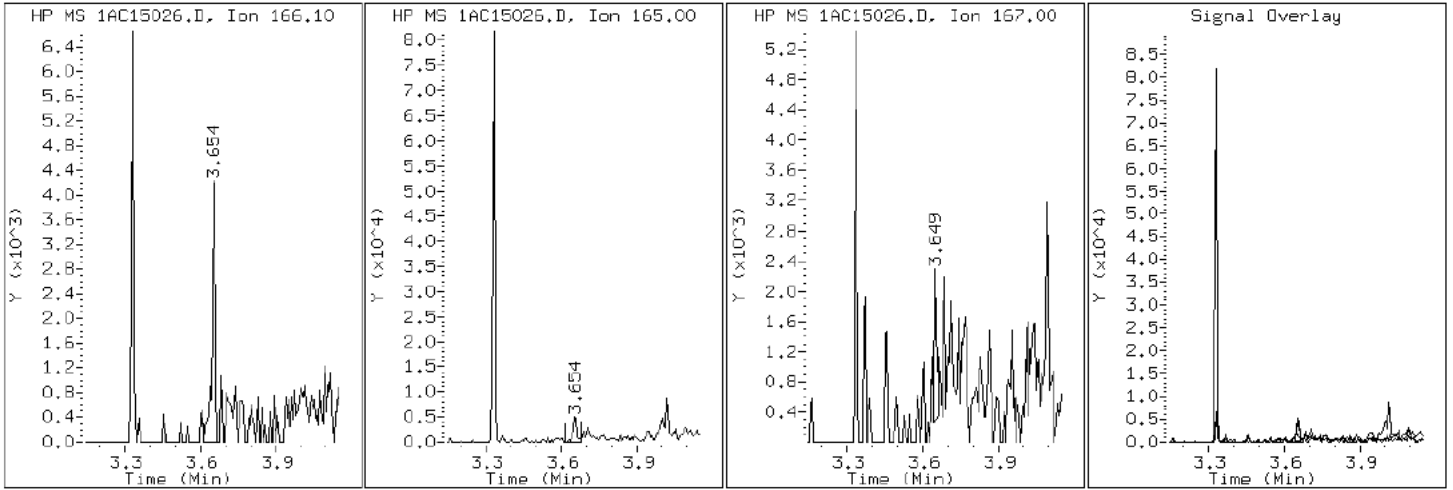
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

9 Fluorene



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

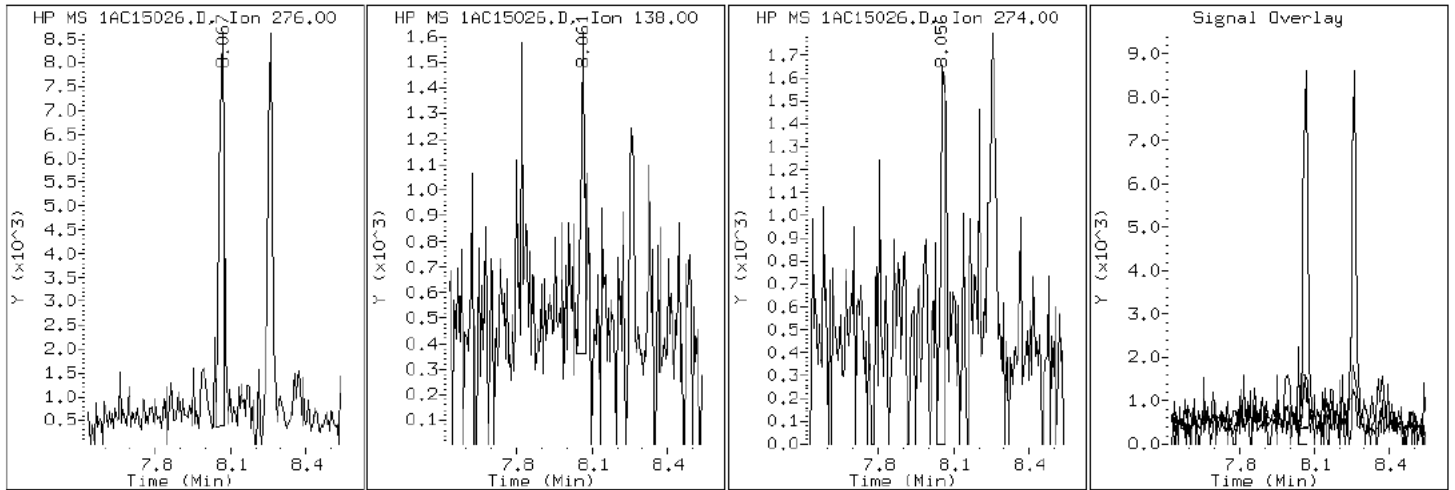
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

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



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

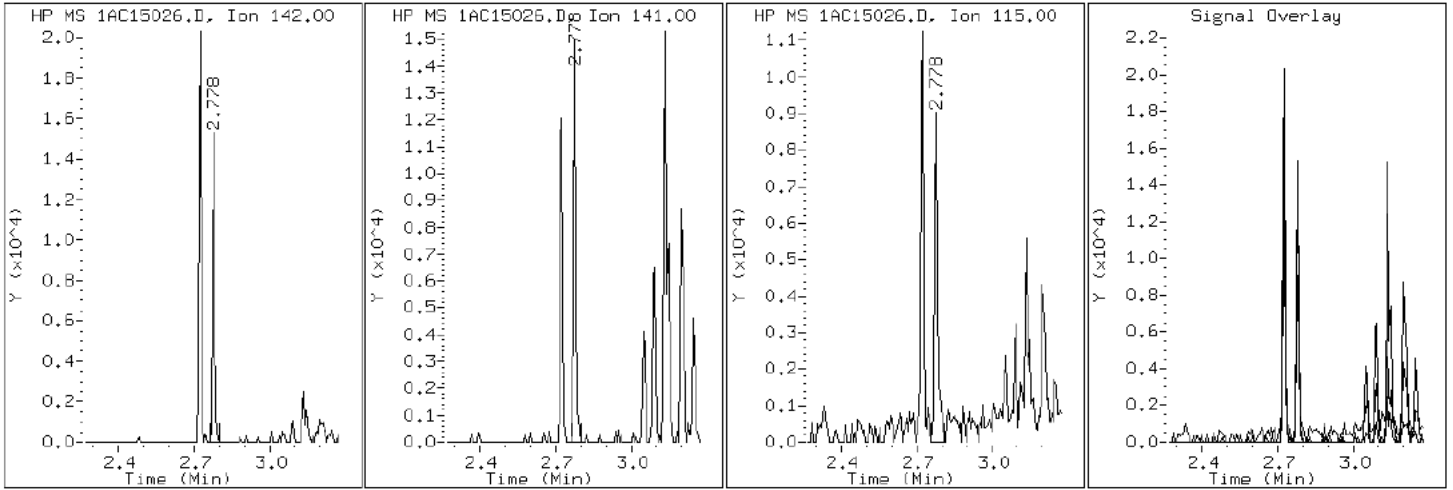
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

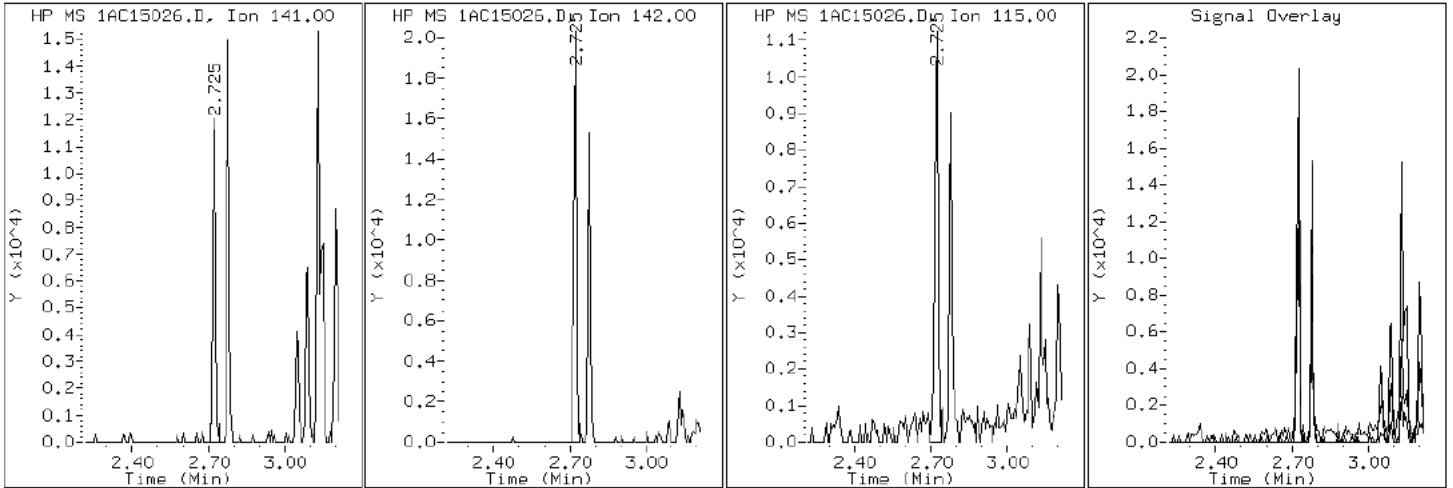
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

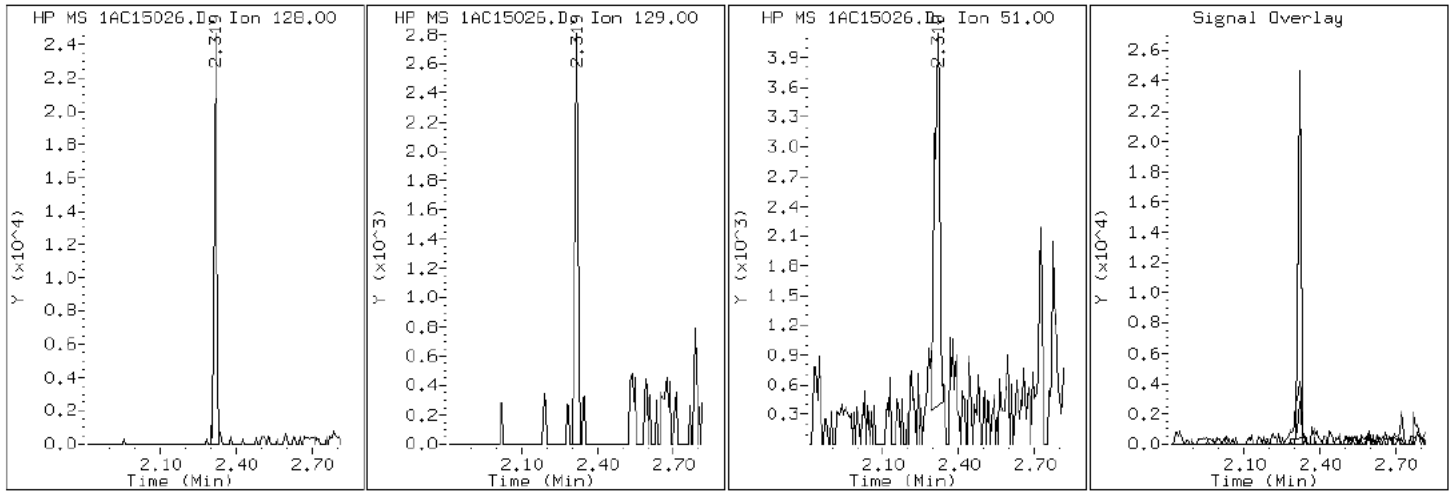
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

2 Naphthalene



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

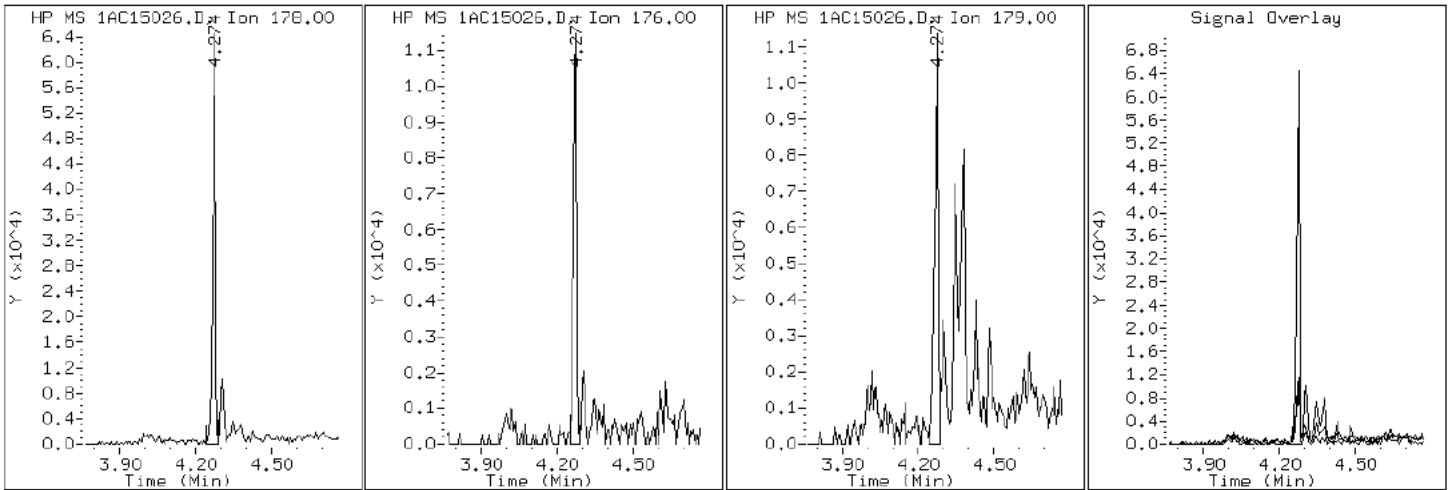
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15026.D

Date: 15-MAR-2013 19:05

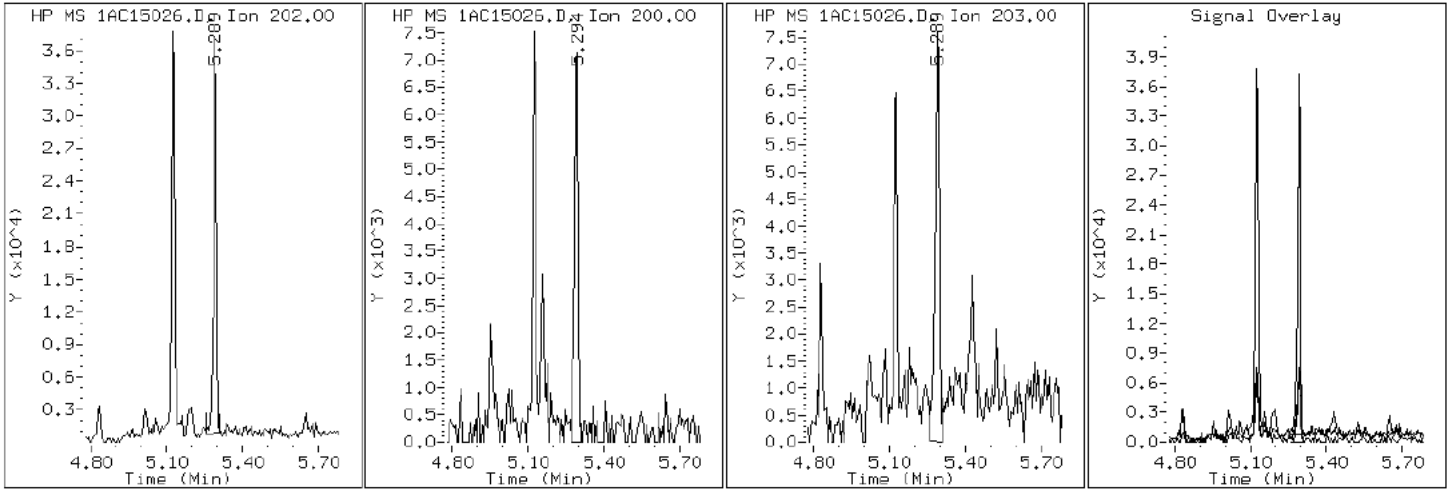
Client ID: CV0684C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-12-a

Operator: SCC

16 Pyrene

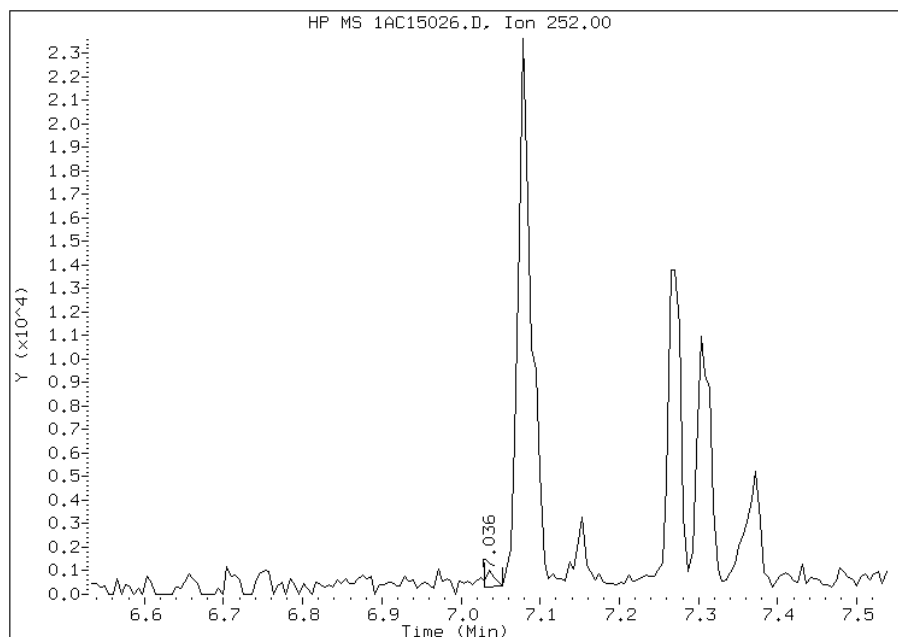


Manual Integration Report

Data File: 1AC15026.D
Inj. Date and Time: 15-MAR-2013 19:05
Instrument ID: BSMA5973.i
Client ID: CV0684C-GS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

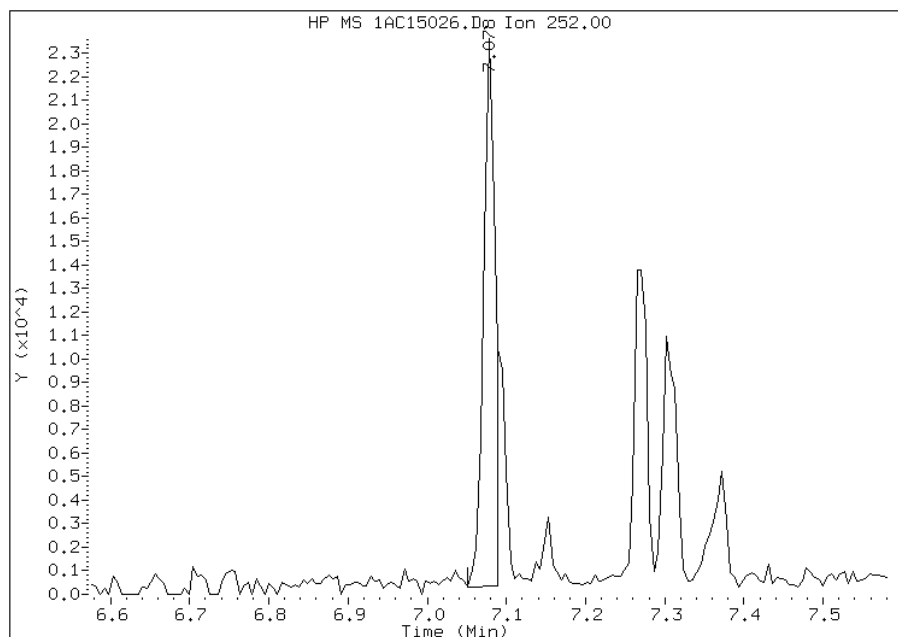
Processing Integration Results

RT: 7.04
Response: 477
Amount: 1
Conc: 452



Manual Integration Results

RT: 7.08
Response: 23475
Amount: 3
Conc: 1043



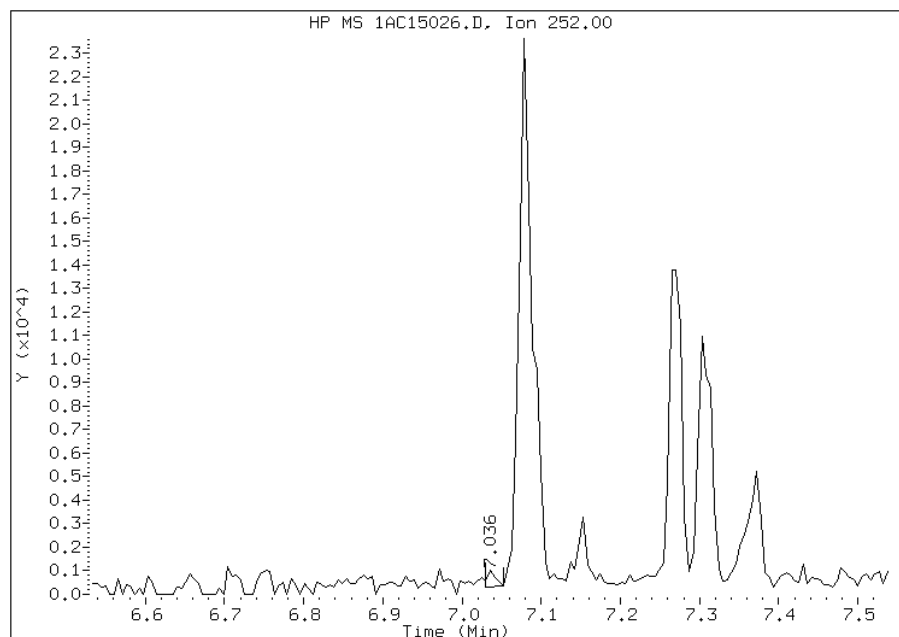
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:10
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15026.D
Inj. Date and Time: 15-MAR-2013 19:05
Instrument ID: BSMA5973.i
Client ID: CV0684C-GS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

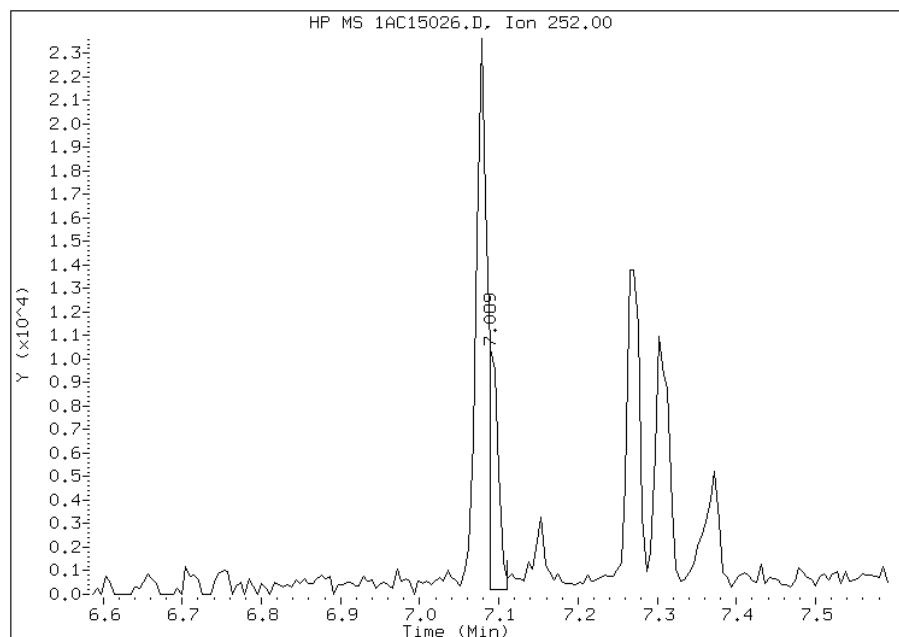
Processing Integration Results

RT: 7.04
Response: 477
Amount: 0
Conc: 13



Manual Integration Results

RT: 7.09
Response: 8430
Amount: 1
Conc: 221



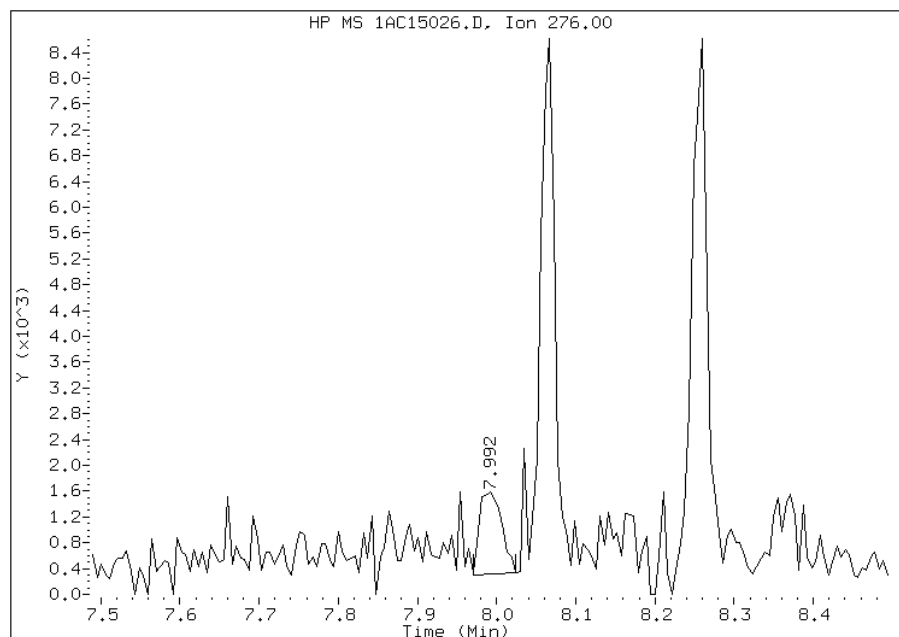
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15026.D
Inj. Date and Time: 15-MAR-2013 19:05
Instrument ID: BSMA5973.i
Client ID: CV0684C-GS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

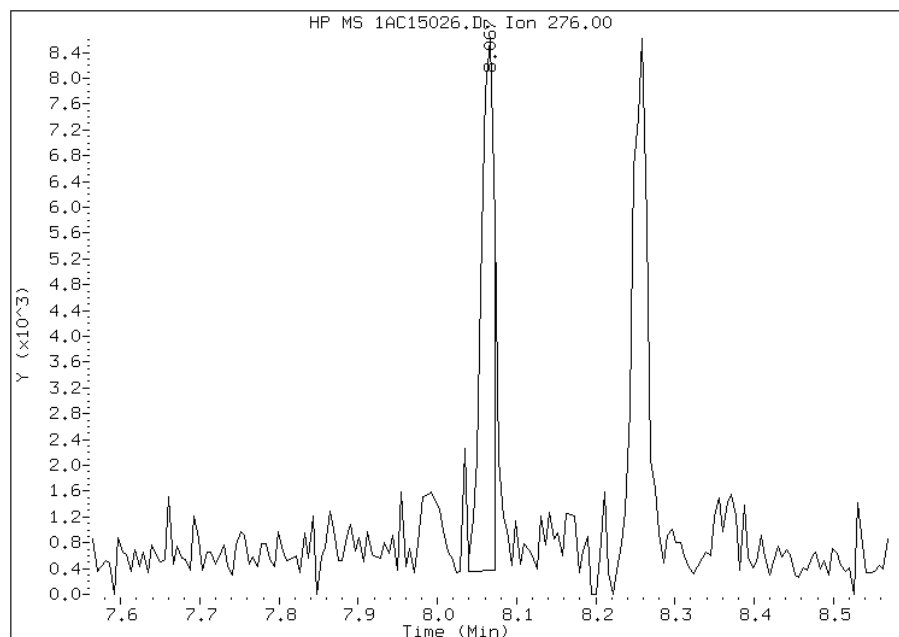
Processing Integration Results

RT: 7.99
Response: 2458
Amount: 0
Conc: 82



Manual Integration Results

RT: 8.07
Response: 9289
Amount: 1
Conc: 311



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:11
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0713A-CS-SP Lab Sample ID: 680-88118-13
 Matrix: Solid Lab File ID: 1AC15027.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 08:57
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.11(g) Date Analyzed: 03/15/2013 19:20
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 21.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	73	J	200	25
120-12-7	Anthracene	110		42	21
56-55-3	Benzo[a]anthracene	420		40	20
50-32-8	Benzo[a]pyrene	230		52	26
205-99-2	Benzo[b]fluoranthene	780		62	31
191-24-2	Benzo[g,h,i]perylene	200		100	22
207-08-9	Benzo[k]fluoranthene	120		40	18
218-01-9	Chrysene	360		45	23
53-70-3	Dibenz(a,h)anthracene	68	J	100	21
206-44-0	Fluoranthene	650		100	20
86-73-7	Fluorene	140		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	170		100	36
90-12-0	1-Methylnaphthalene	35	J	200	22
91-57-6	2-Methylnaphthalene	360		200	36
91-20-3	Naphthalene	66	J	200	22
85-01-8	Phenanthrene	460		40	20
129-00-0	Pyrene	610		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15027.D
 Lab Smp Id: 680-88118-A-13-A Client Smp ID: CV0713A-CS-SP
 Inj Date : 15-MAR-2013 19:20
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-13-a
 Misc Info : 680-88118-A-13-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 27
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	21.277	% 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		2.309	2.303	(1.000)	376152	40.0000		
* 6 Acenaphthene-d10	164		3.329	3.324	(1.000)	297526	40.0000		
* 10 Phenanthrene-d10	188		4.259	4.248	(1.000)	500100	40.0000		
\$ 14 o-Terphenyl	230		4.531	4.526	(1.064)	12389	1.98850	668.6796	
* 18 Chrysene-d12	240		6.262	6.246	(1.000)	385508	40.0000		
* 23 Perylene-d12	264		7.357	7.330	(1.000)	389625	40.0000	(H)	
2 Naphthalene	128		2.319	2.314	(1.005)	1708	0.19654	66.0907(Q)	
3 2-Methylnaphthalene	141		2.720	2.715	(1.178)	953	1.05965	356.3326	
4 1-Methylnaphthalene	142		2.773	2.773	(1.201)	521	0.10426	35.0596(Q)	
5 Acenaphthylene	152		3.244	3.238	(0.974)	545	0.21574	72.5485(Q)	
9 Fluorene	166		3.655	3.649	(1.098)	1472	0.40799	137.1965	
11 Phenanthrene	178		4.269	4.264	(1.002)	17466	1.37800	463.3836	
12 Anthracene	178		4.307	4.296	(1.011)	4099	0.33352	112.1551	
13 Carbazole	167		4.467	4.456	(1.049)	2484	0.23060	77.5446	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.124	5.113 (1.203)		24307	1.94005	652.3863
16 Pyrene	202	5.284	5.279 (0.844)		19899	1.80026	605.3783
17 Benzo(a)anthracene	228	6.257	6.235 (0.999)		12025	1.24402	418.3294
19 Chrysene	228	6.273	6.262 (1.002)		10683	1.06993	359.7870
20 Benzo(b)fluoranthene	252	7.069	7.052 (0.961)		11954	2.31613	778.8527(MH)
21 Benzo(k)fluoranthene	252	7.085	7.074 (0.963)		3644	0.34672	116.5938(QM)
22 Benzo(a)pyrene	252	7.298	7.282 (0.992)		6337	0.69305	233.0522(H)
24 Indeno(1,2,3-cd)pyrene	276	8.057	8.035 (1.095)		4070	0.49331	165.8866(MH)
25 Dibenzo(a,h)anthracene	278	8.062	8.045 (1.096)		1654	0.20228	68.0201(H)
26 Benzo(g,h,i)perylene	276	8.244	8.222 (1.121)		4851	0.58412	196.4221(H)

QC Flag Legend

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

Data File: 1AC15027.D

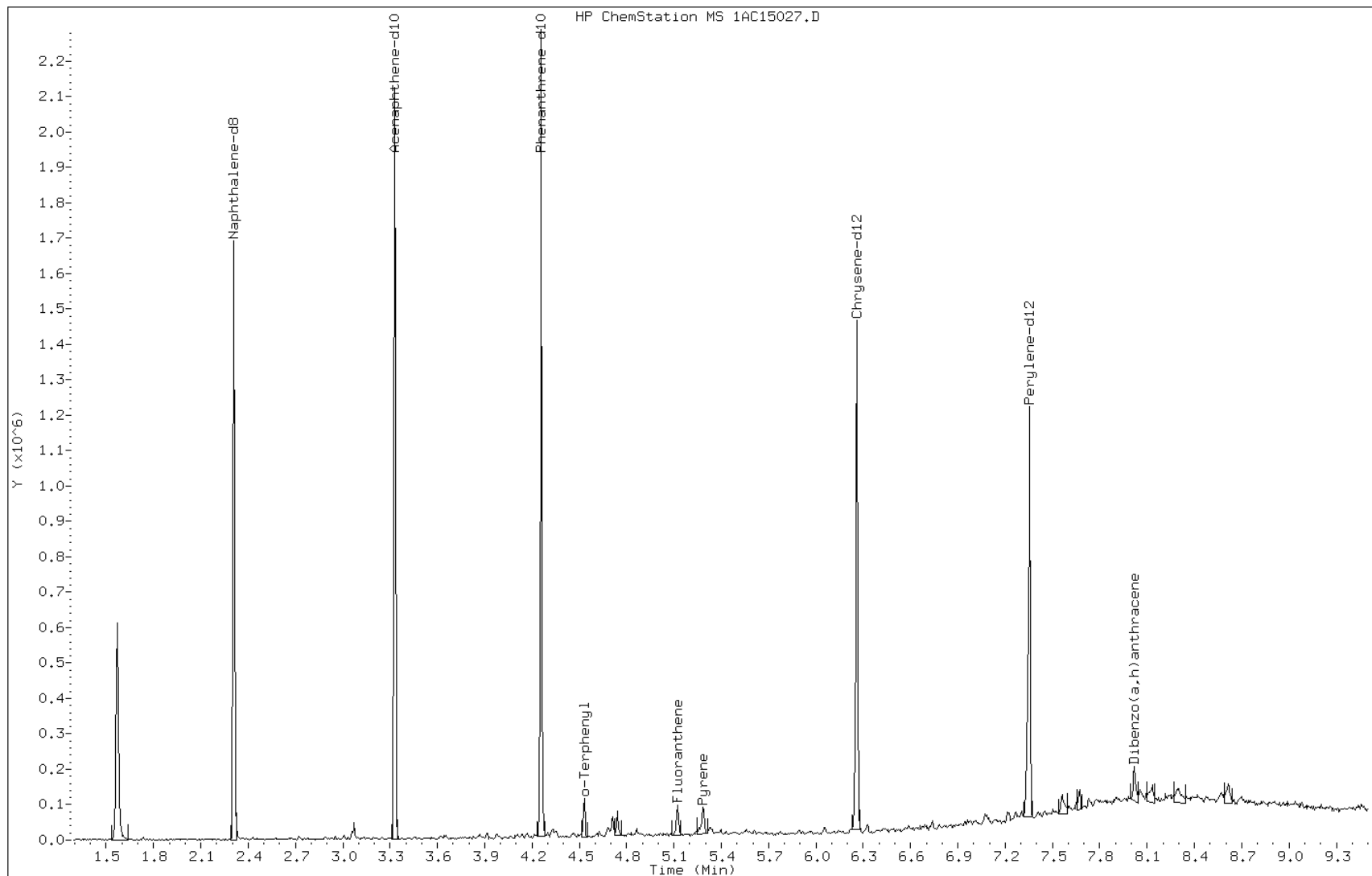
Date: 15-MAR-2013 19:20

Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC



Data File: 1AC15027.D

Date: 15-MAR-2013 19:20

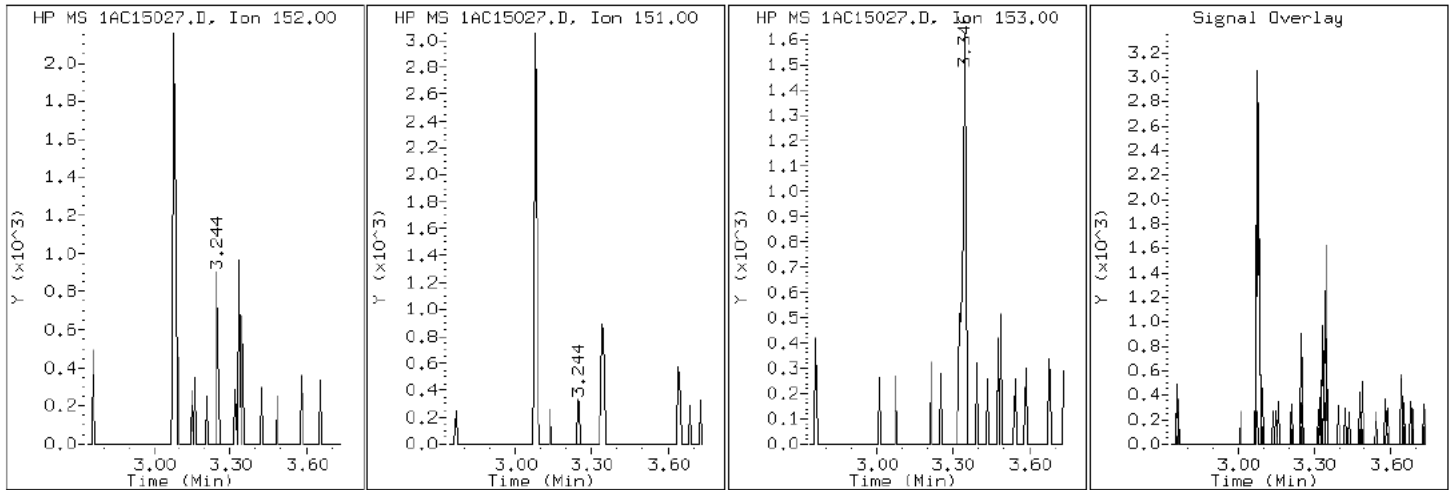
Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15027.D

Date: 15-MAR-2013 19:20

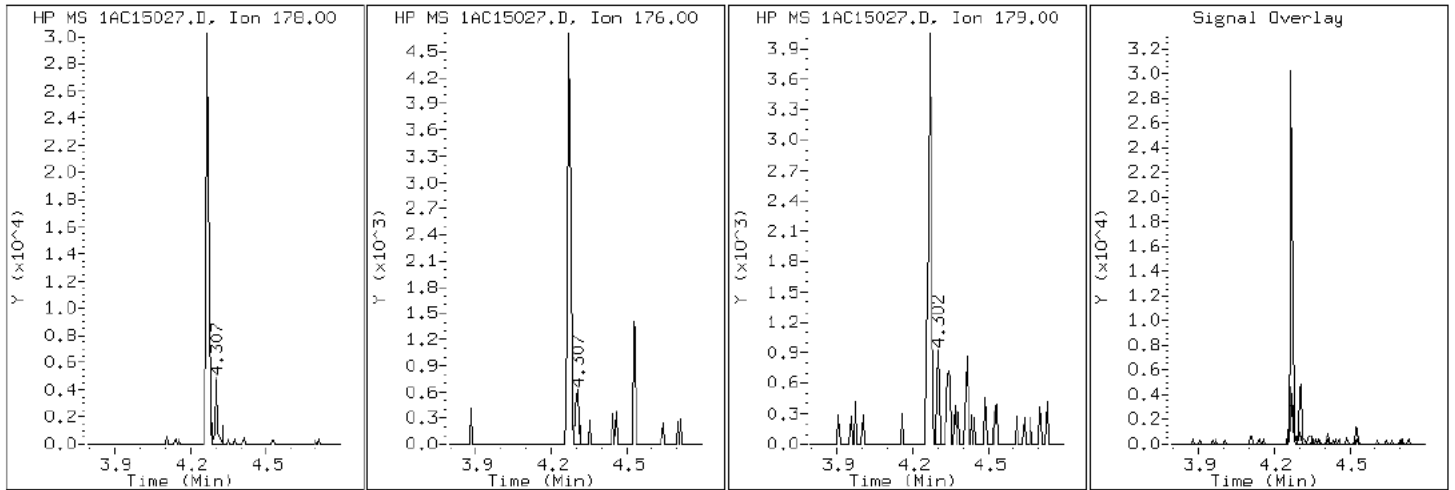
Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC

12 Anthracene



Data File: 1AC15027.D

Date: 15-MAR-2013 19:20

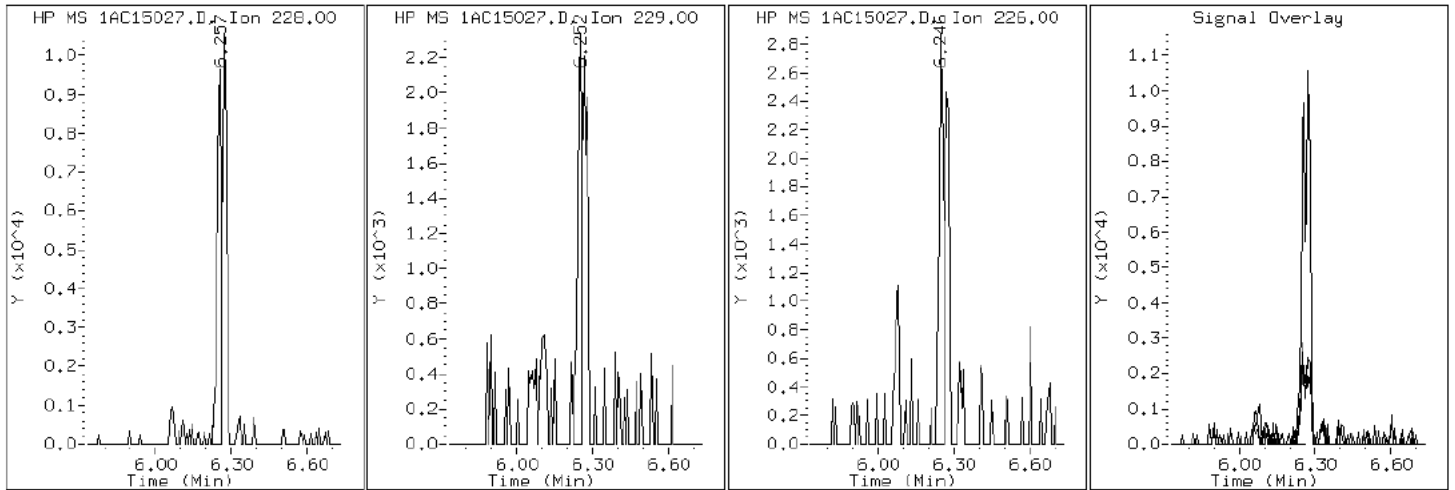
Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15027.D

Date: 15-MAR-2013 19:20

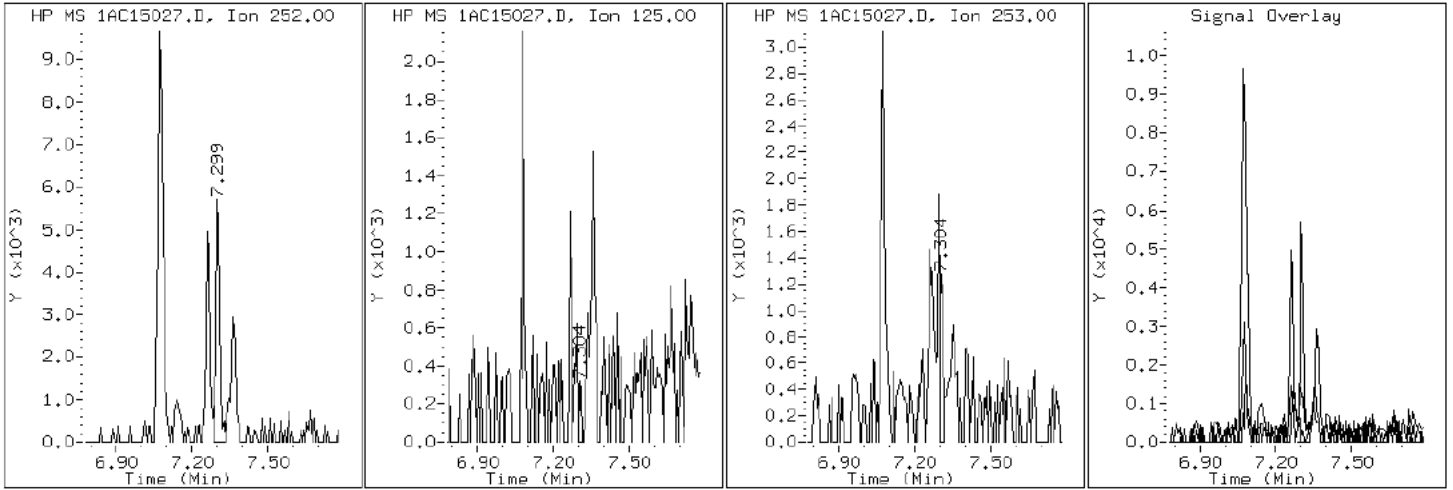
Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15027.D

Date: 15-MAR-2013 19:20

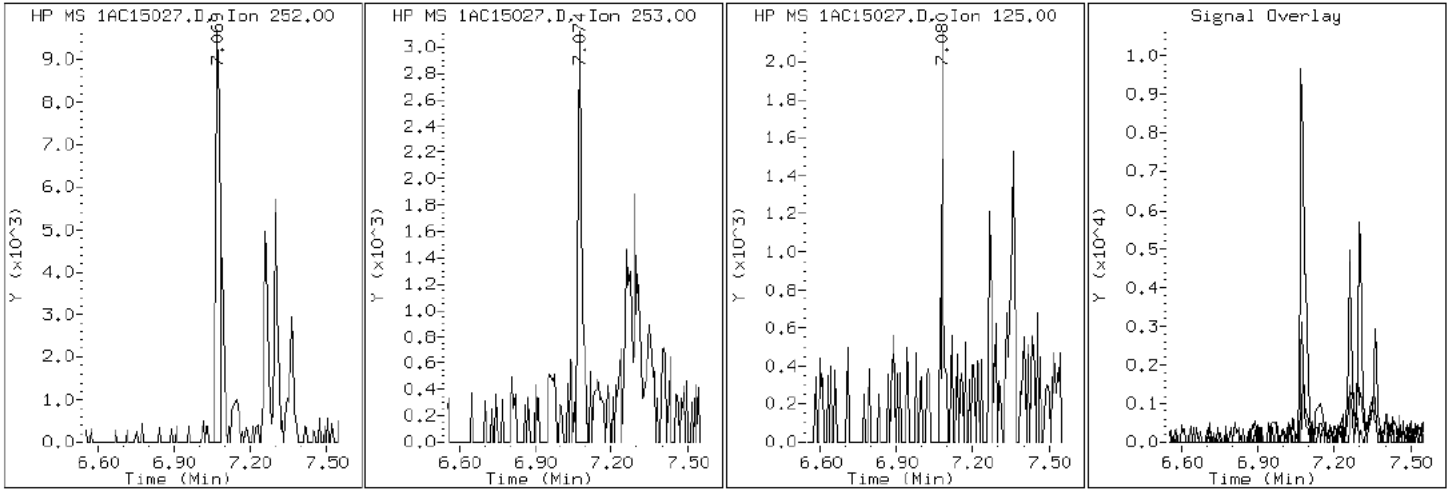
Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15027.D

Date: 15-MAR-2013 19:20

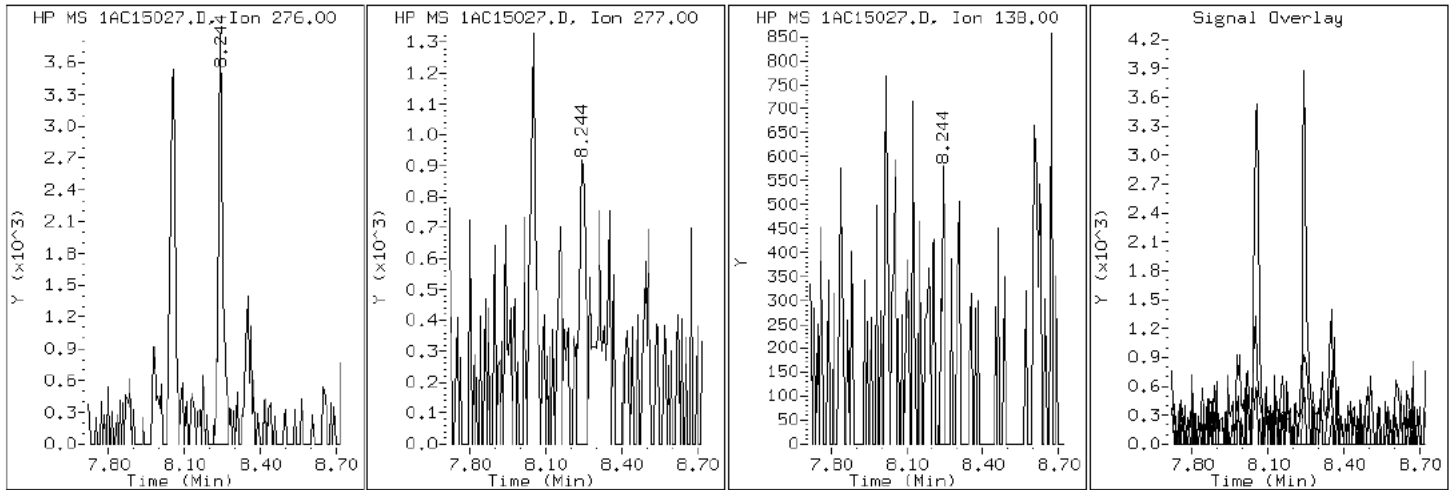
Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15027.D

Date: 15-MAR-2013 19:20

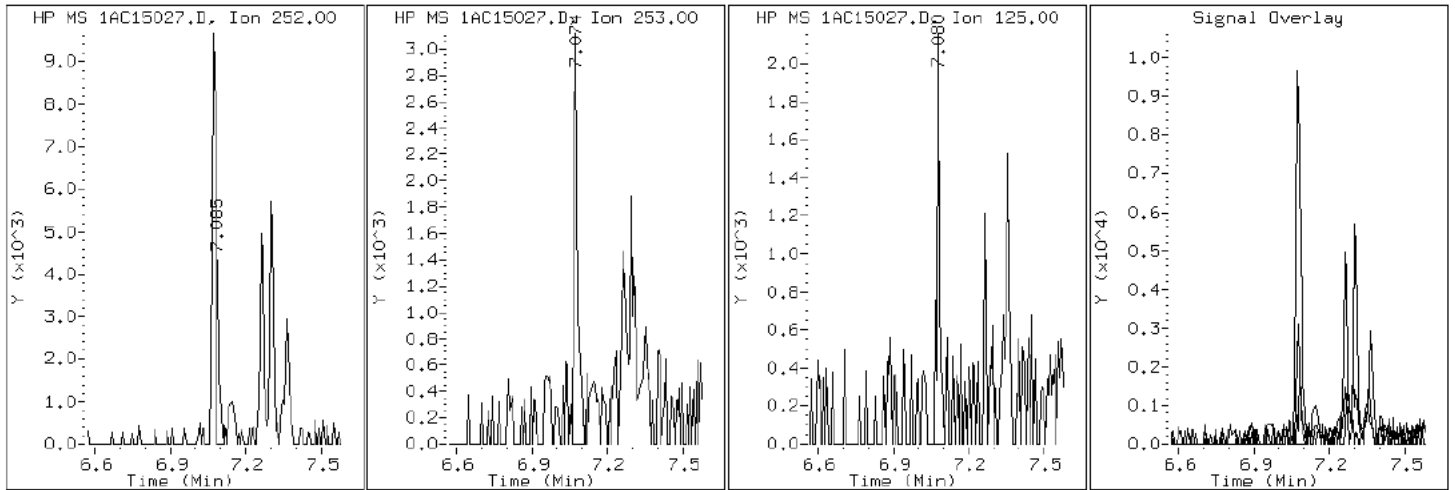
Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15027.D

Date: 15-MAR-2013 19:20

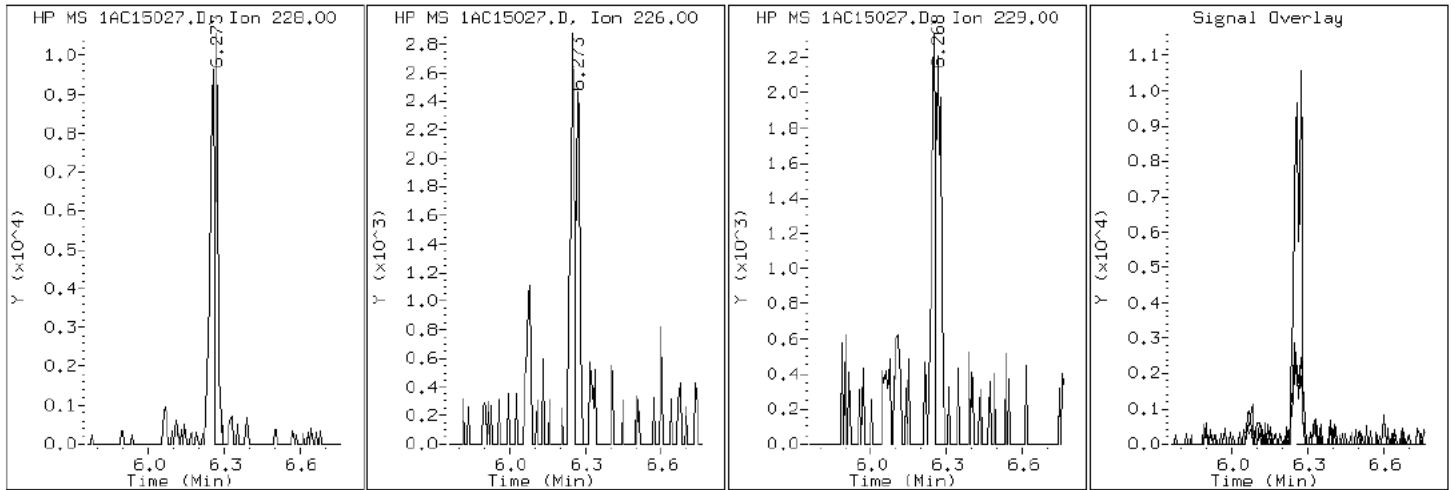
Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC

19 Chrysene



Data File: 1AC15027.D

Date: 15-MAR-2013 19:20

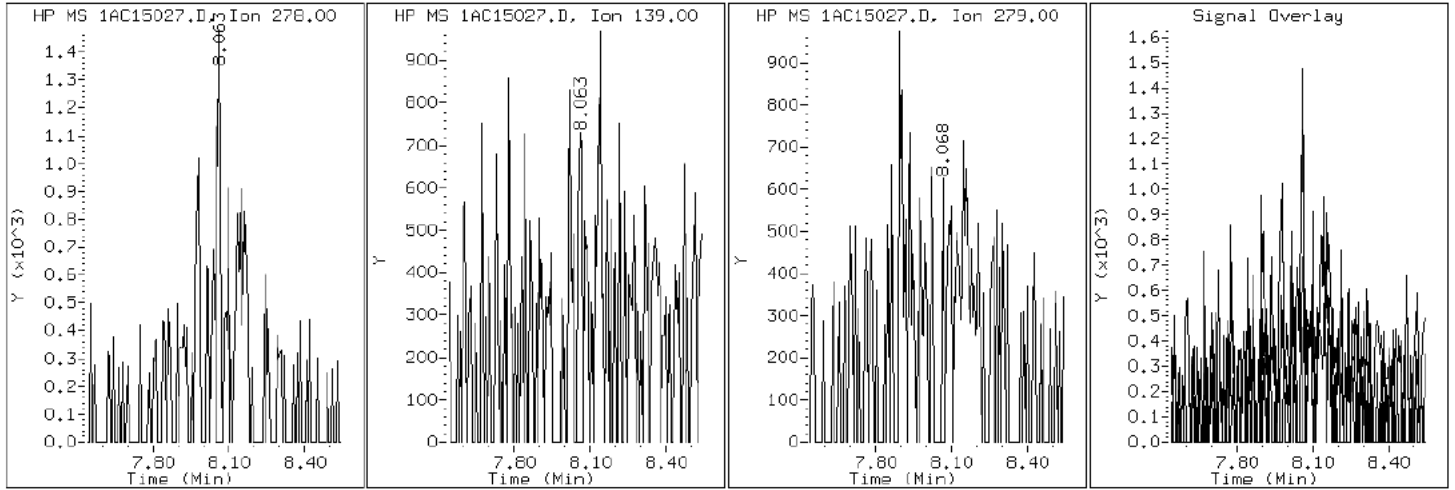
Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC

25 Dibenzo (a,h)anthracene



Data File: 1AC15027.D

Date: 15-MAR-2013 19:20

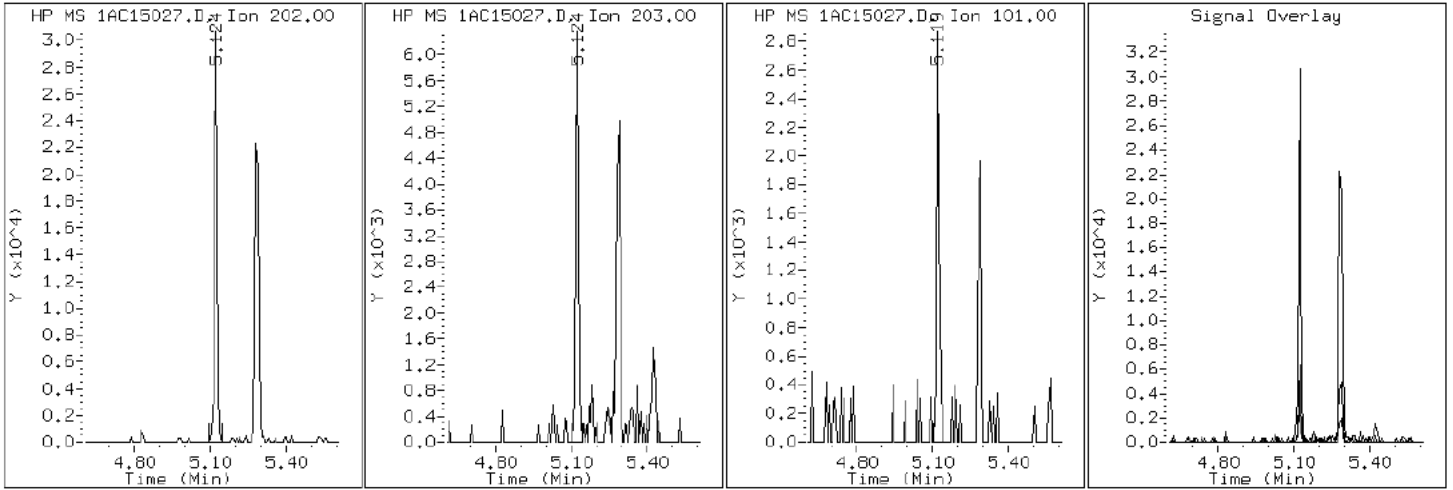
Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15027.D

Date: 15-MAR-2013 19:20

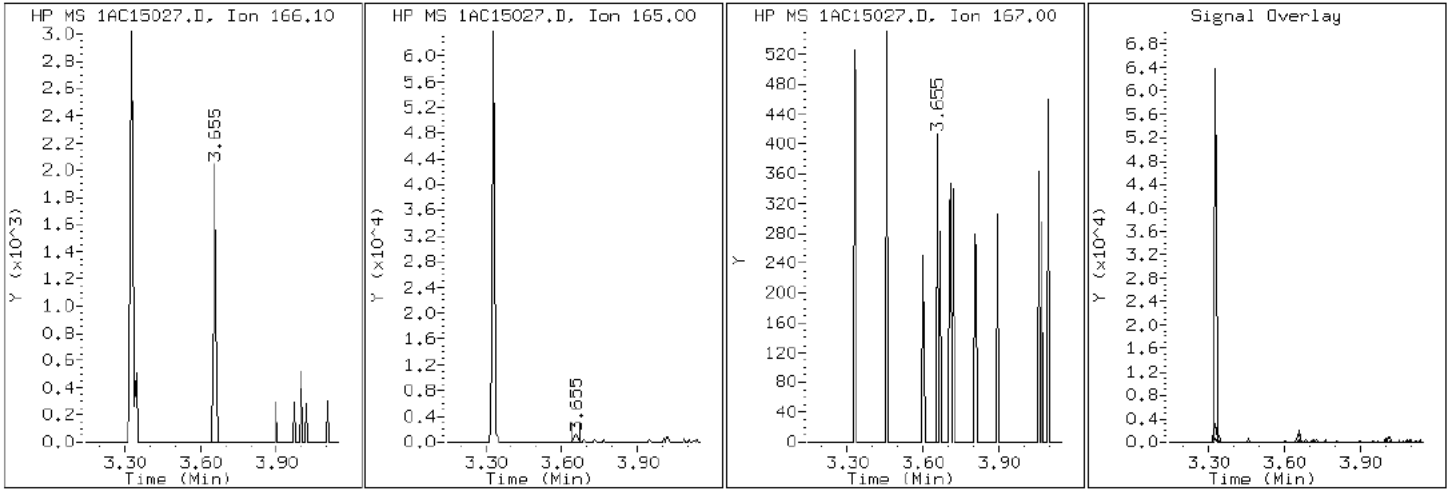
Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC

9 Fluorene



Data File: 1AC15027.D

Date: 15-MAR-2013 19:20

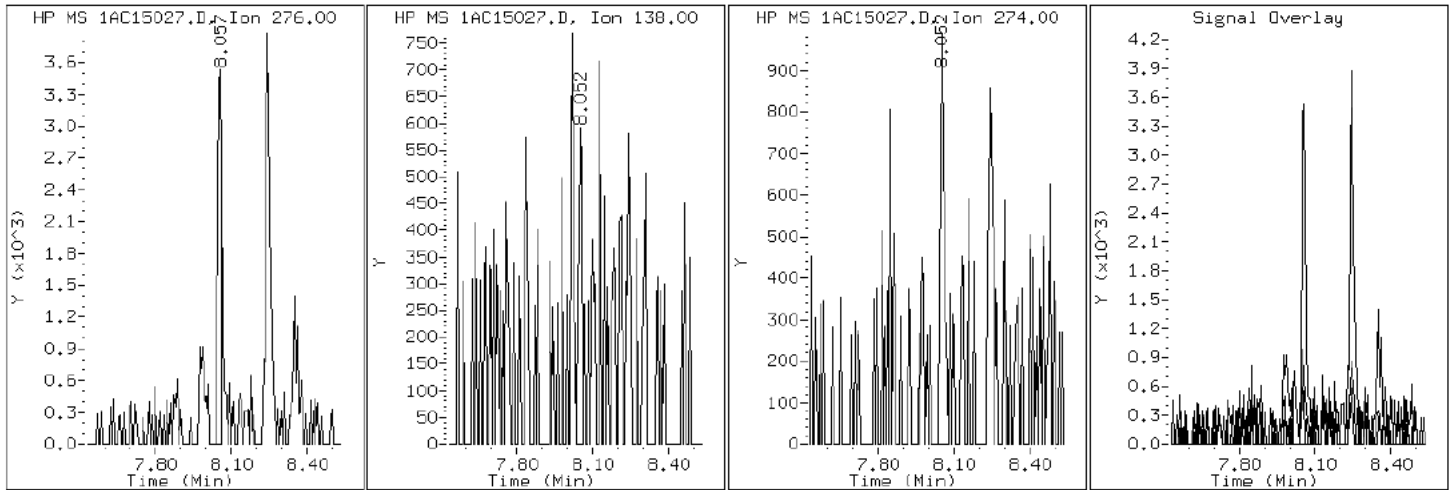
Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC

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



Data File: 1AC15027.D

Date: 15-MAR-2013 19:20

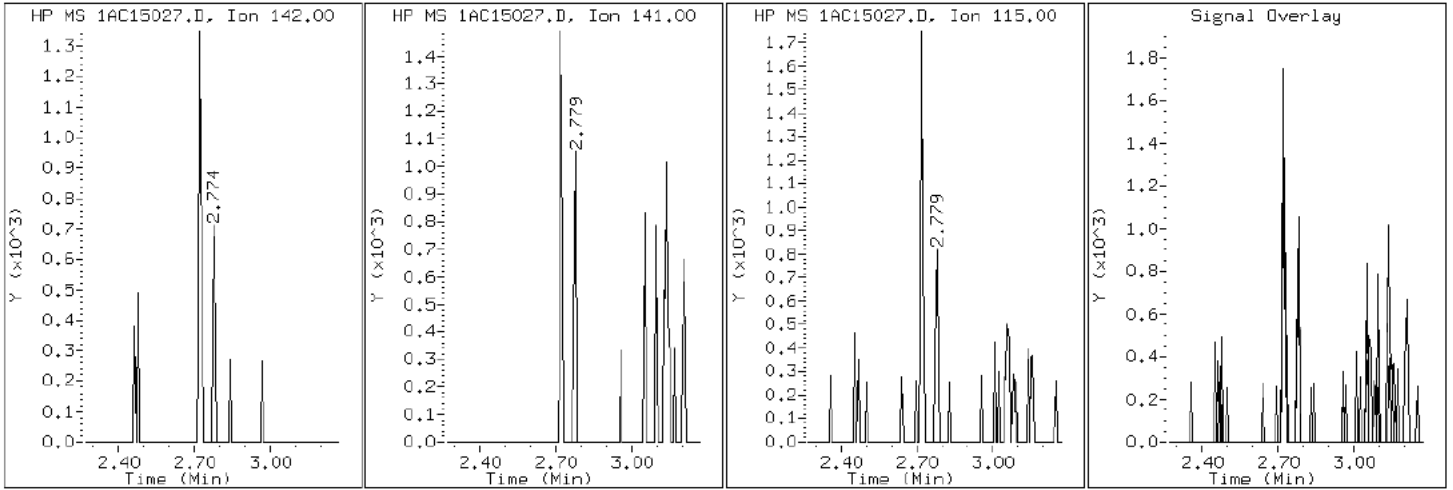
Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15027.D

Date: 15-MAR-2013 19:20

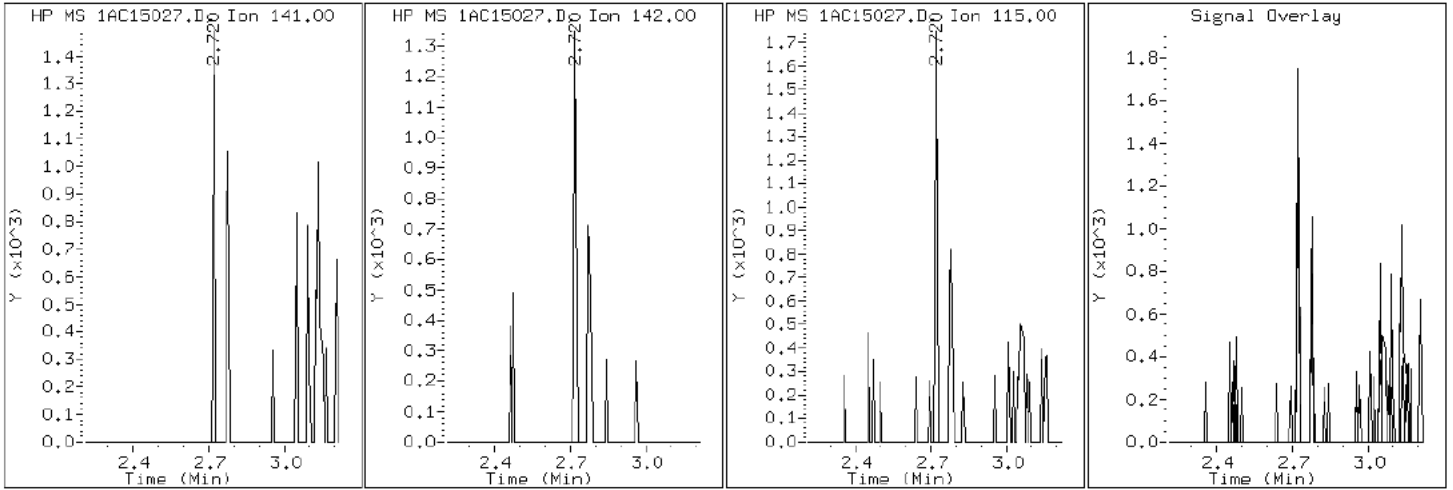
Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15027.D

Date: 15-MAR-2013 19:20

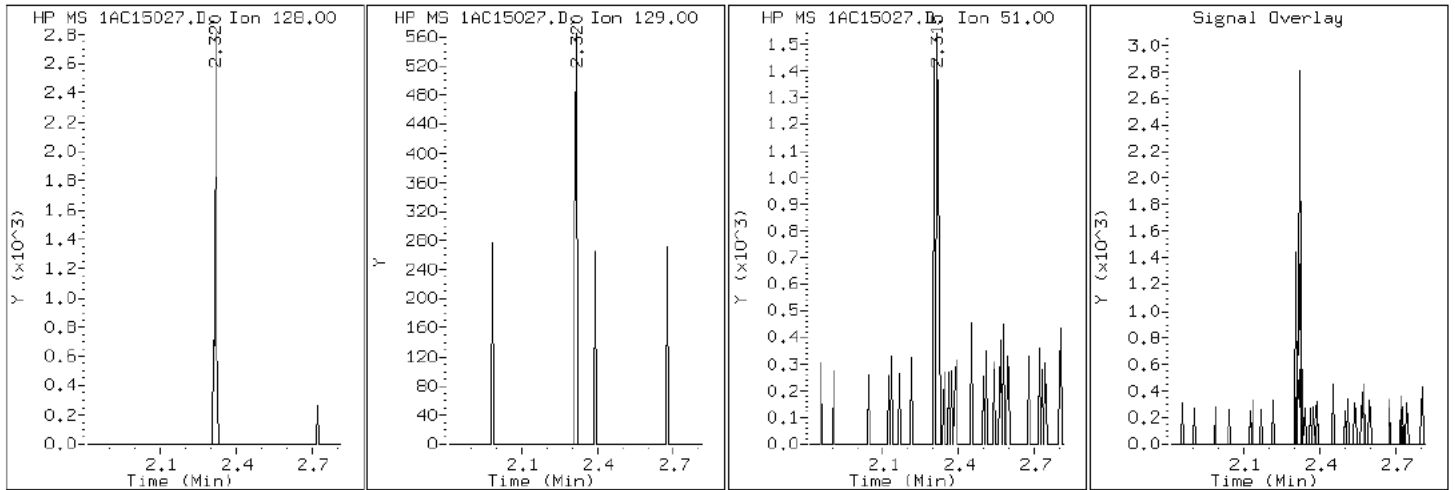
Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC

2 Naphthalene



Data File: 1AC15027.D

Date: 15-MAR-2013 19:20

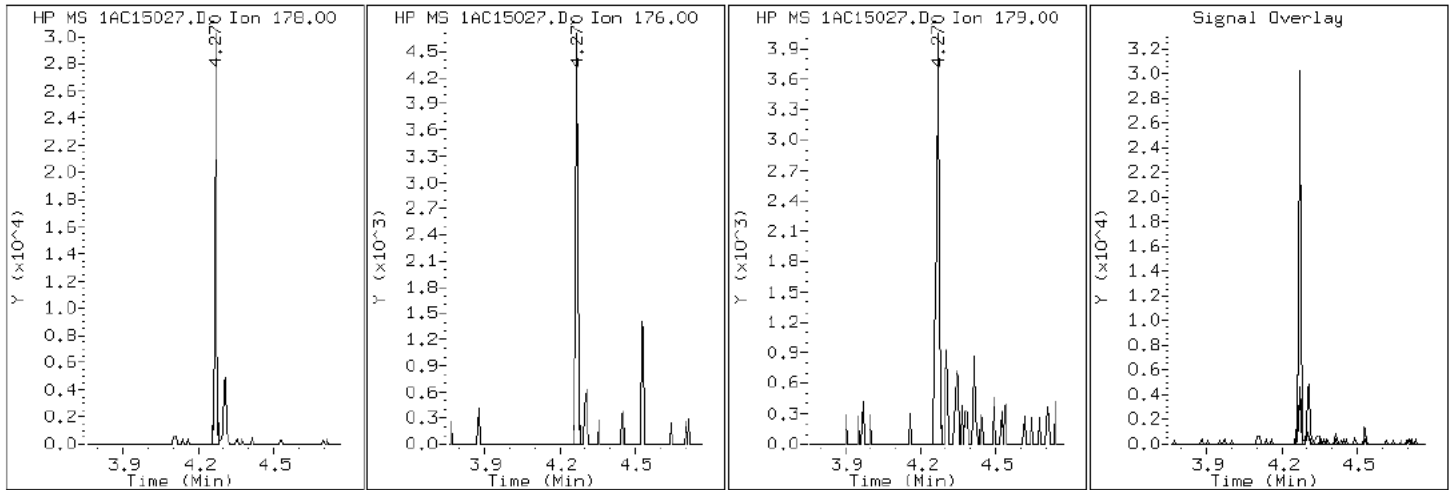
Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15027.D

Date: 15-MAR-2013 19:20

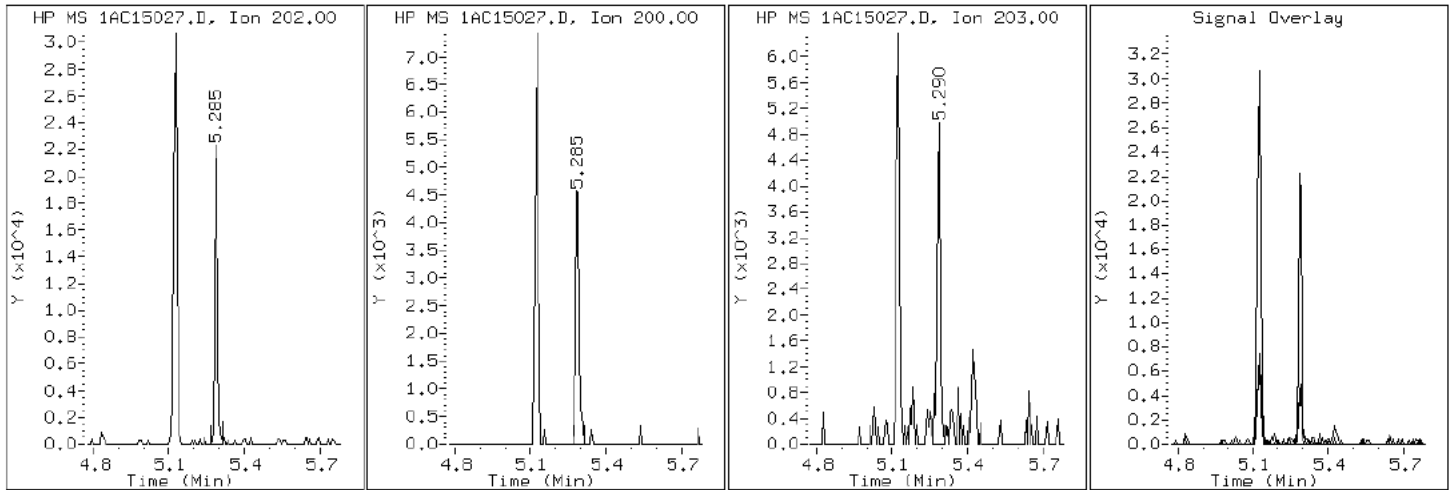
Client ID: CV0713A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-13-a

Operator: SCC

16 Pyrene

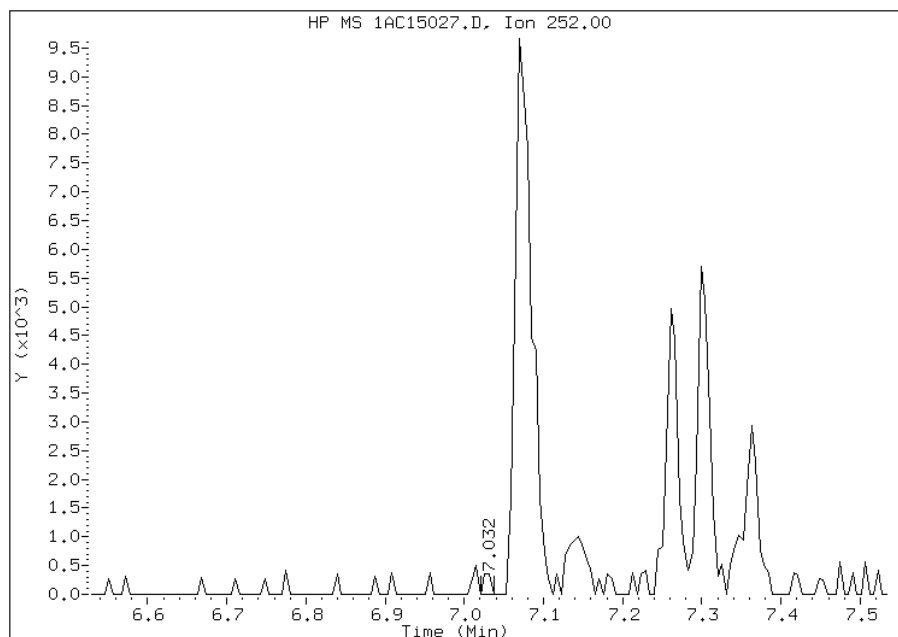


Manual Integration Report

Data File: 1AC15027.D
Inj. Date and Time: 15-MAR-2013 19:20
Instrument ID: BSMA5973.i
Client ID: CV0713A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

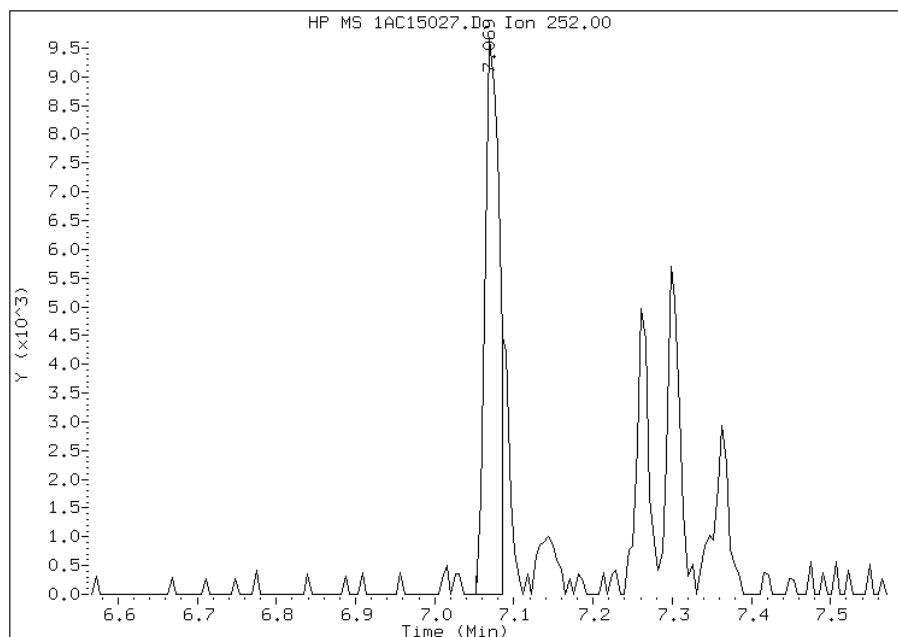
Processing Integration Results

RT: 7.03
Response: 229
Amount: 1
Conc: 412



Manual Integration Results

RT: 7.07
Response: 11954
Amount: 2
Conc: 779



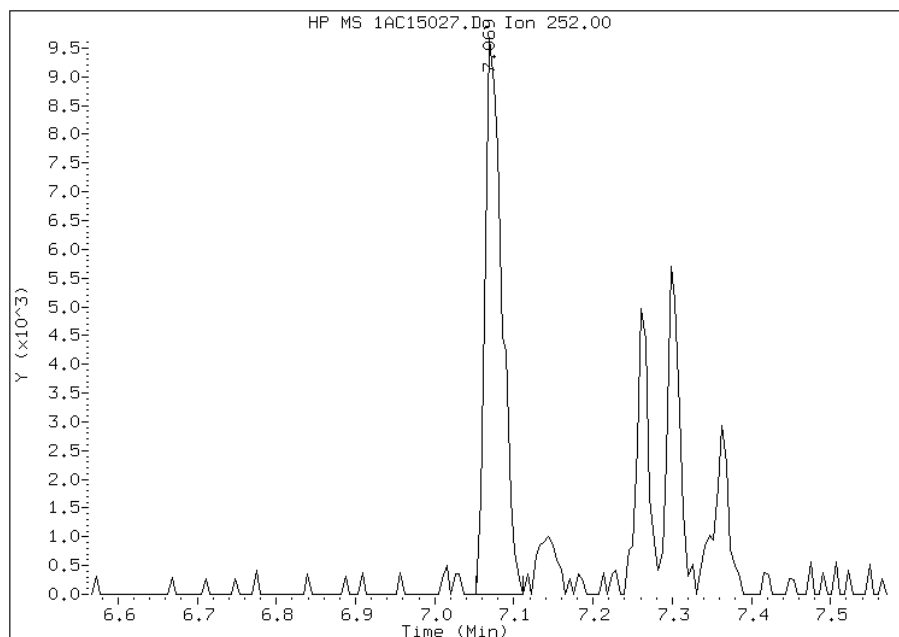
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:12
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15027.D
Inj. Date and Time: 15-MAR-2013 19:20
Instrument ID: BSMA5973.i
Client ID: CV0713A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

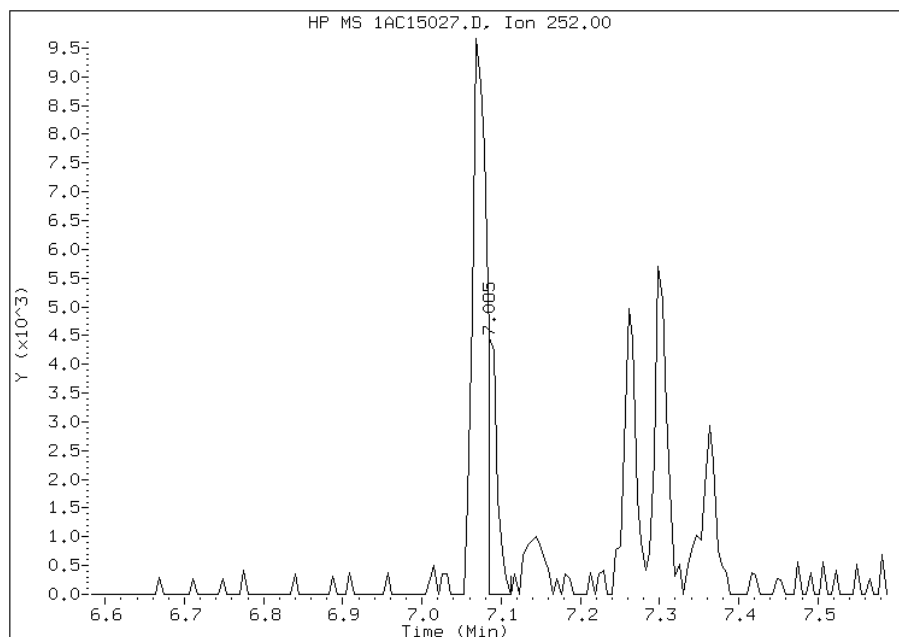
Processing Integration Results

RT: 7.07
Response: 14167
Amount: 1
Conc: 453



Manual Integration Results

RT: 7.09
Response: 3644
Amount: 0
Conc: 117



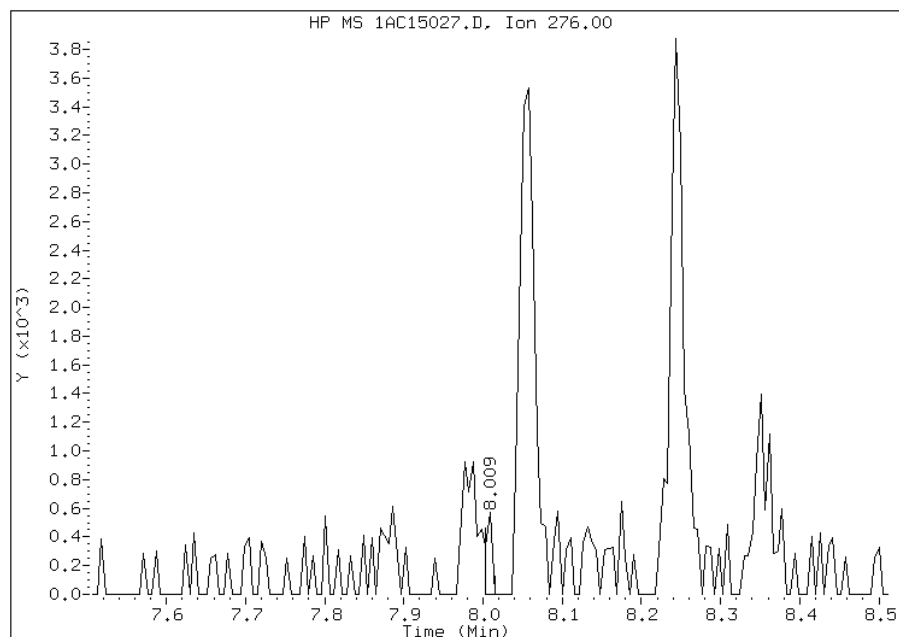
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15027.D
Inj. Date and Time: 15-MAR-2013 19:20
Instrument ID: BSMA5973.i
Client ID: CV0713A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

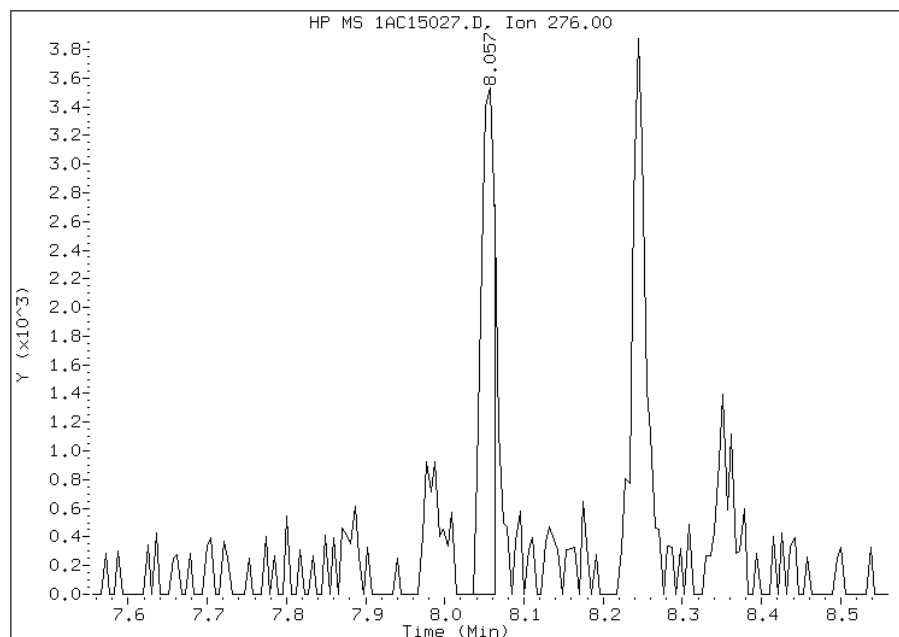
Processing Integration Results

RT: 8.01
Response: 290
Amount: 0
Conc: 12



Manual Integration Results

RT: 8.06
Response: 4070
Amount: 0
Conc: 166



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:12
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0713B-CS-SP Lab Sample ID: 680-88118-14
 Matrix: Solid Lab File ID: 1AC15028.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 09:11
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 14.93(g) Date Analyzed: 03/15/2013 19:35
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 22.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	24	J	52	6.5
120-12-7	Anthracene	15		11	5.4
56-55-3	Benzo[a]anthracene	93		10	5.0
50-32-8	Benzo[a]pyrene	59		13	6.7
205-99-2	Benzo[b]fluoranthene	190		16	7.9
191-24-2	Benzo[g,h,i]perylene	45		26	5.7
207-08-9	Benzo[k]fluoranthene	31		10	4.7
218-01-9	Chrysene	81		12	5.8
53-70-3	Dibenz(a,h)anthracene	19	J	26	5.3
206-44-0	Fluoranthene	89		26	5.2
86-73-7	Fluorene	26	U	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	39		26	9.2
90-12-0	1-Methylnaphthalene	26	J	52	5.7
91-57-6	2-Methylnaphthalene	120		52	9.2
91-20-3	Naphthalene	48	J	52	5.7
85-01-8	Phenanthrene	60		10	5.0
129-00-0	Pyrene	110		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	69		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15028.D
 Lab Smp Id: 680-88118-A-14-A Client Smp ID: CV0713B-CS-SP
 Inj Date : 15-MAR-2013 19:35
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-14-a
 Misc Info : 680-88118-A-14-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 28
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	22.245	% 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		2.308	2.303	(1.000)	454777	40.0000		
* 6 Acenaphthene-d10	164		3.334	3.324	(1.000)	350365	40.0000		
* 10 Phenanthrene-d10	188		4.258	4.248	(1.000)	575885	40.0000		
\$ 14 o-Terphenyl	230		4.530	4.526	(1.064)	52079	6.91143	595.3592	
* 18 Chrysene-d12	240		6.261	6.246	(1.000)	423448	40.0000		
* 23 Perylene-d12	264		7.356	7.330	(1.000)	423846	40.0000		
2 Naphthalene	128		2.319	2.314	(1.005)	5886	0.56020	48.2567	
3 2-Methylnaphthalene	141		2.725	2.715	(1.180)	3326	1.39690	120.3306	
4 1-Methylnaphthalene	142		2.778	2.773	(1.204)	1840	0.30455	26.2344	
5 Acenaphthylene	152		3.243	3.238	(0.973)	1424	0.27886	24.0216	
11 Phenanthrene	178		4.274	4.264	(1.004)	10226	0.70062	60.3522	
12 Anthracene	178		4.306	4.296	(1.011)	2524	0.17834	15.3628	
13 Carbazole	167		4.466	4.456	(1.049)	1616	0.13028	11.2223	
15 Fluoranthene	202		5.123	5.113	(1.203)	14921	1.03419	89.0865	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.289	5.279 (0.845)		15211	1.25284	107.9210
17 Benzo(a)anthracene	228	6.251	6.235 (0.998)		11215	1.08168	93.1769
19 Chrysene	228	6.272	6.262 (1.002)		10296	0.93878	80.8674
20 Benzo(b)fluoranthene	252	7.068	7.052 (0.961)		11593	2.19533	189.1081(M)
21 Benzo(k)fluoranthene	252	7.084	7.074 (0.963)		4077	0.35660	30.7182(QMH)
22 Benzo(a)pyrene	252	7.303	7.282 (0.993)		6818	0.68545	59.0452
24 Indeno(1,2,3-cd)pyrene	276	8.056	8.035 (1.095)		4014	0.44724	38.5258(M)
25 Dibenzo(a,h)anthracene	278	8.062	8.045 (1.096)		1933	0.21731	18.7194
26 Benzo(g,h,i)perylene	276	8.249	8.222 (1.121)		4757	0.52655	45.3576

QC Flag Legend

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

Data File: 1AC15028.D

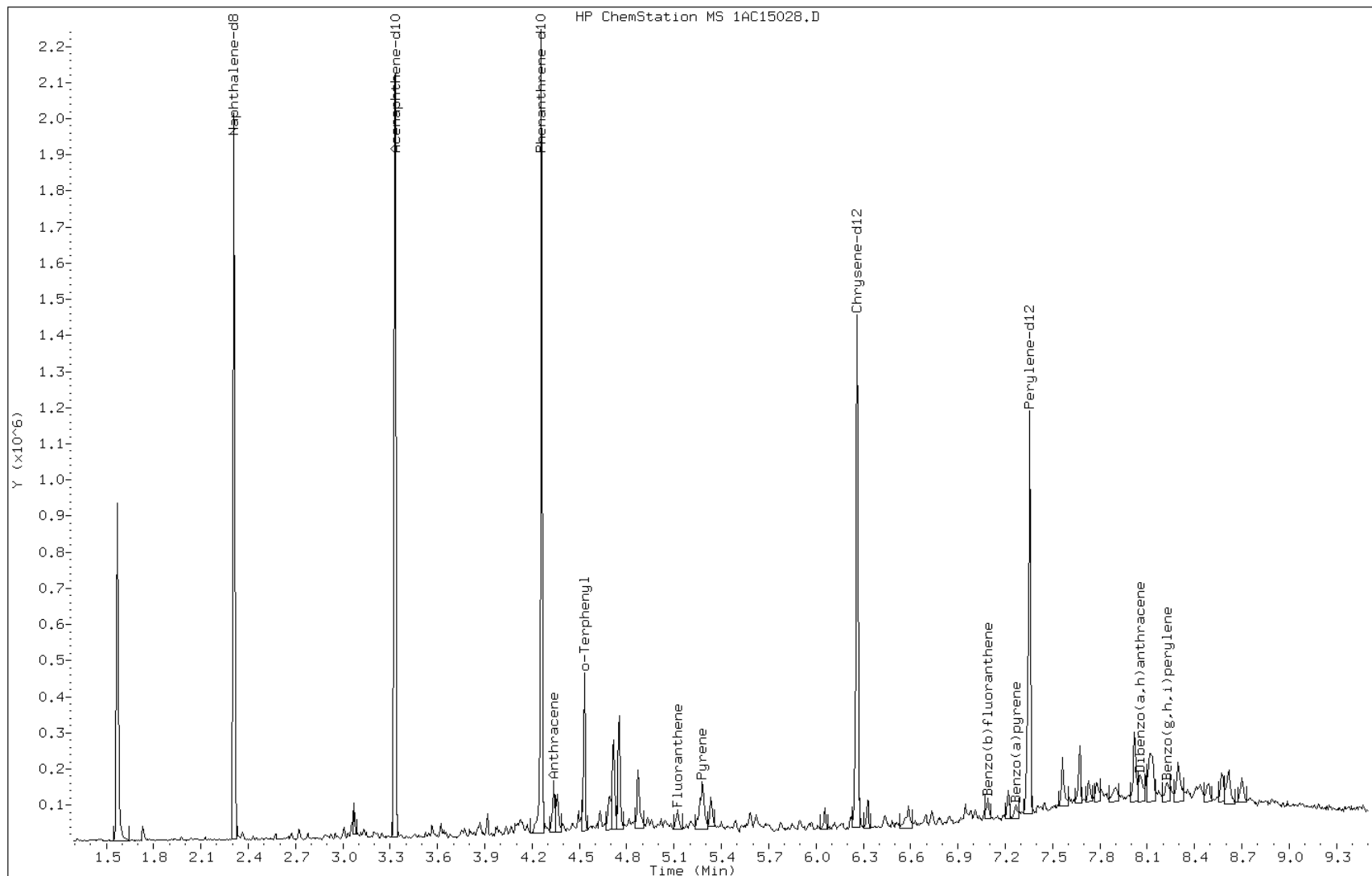
Date: 15-MAR-2013 19:35

Client ID: CV0713B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-14-a

Operator: SCC



Data File: 1AC15028.D

Date: 15-MAR-2013 19:35

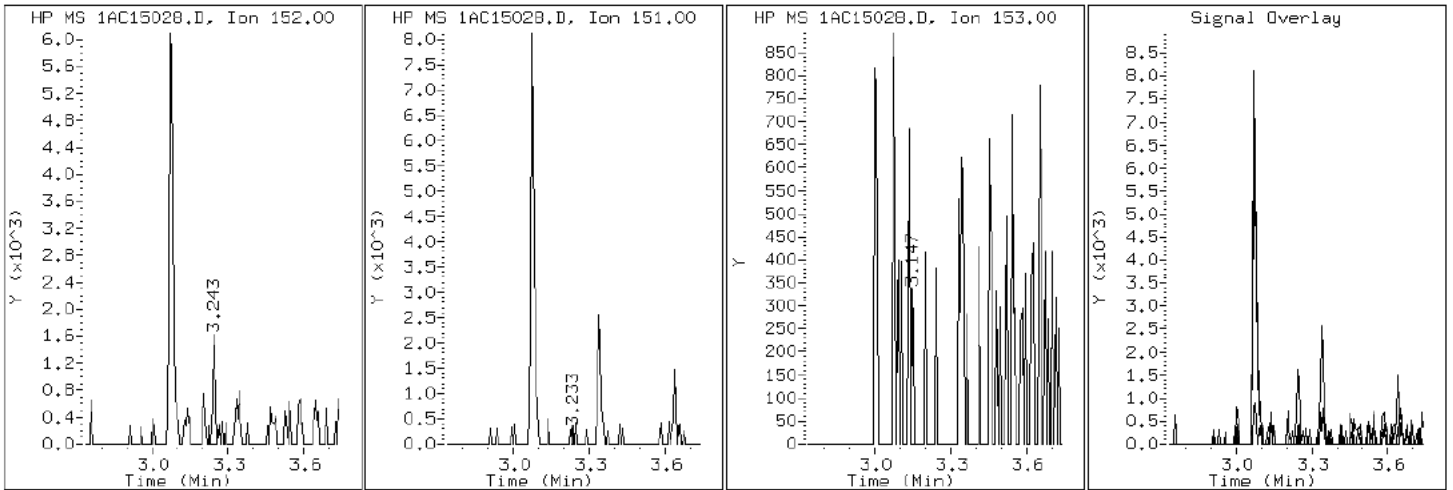
Client ID: CV0713B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-14-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15028.D

Date: 15-MAR-2013 19:35

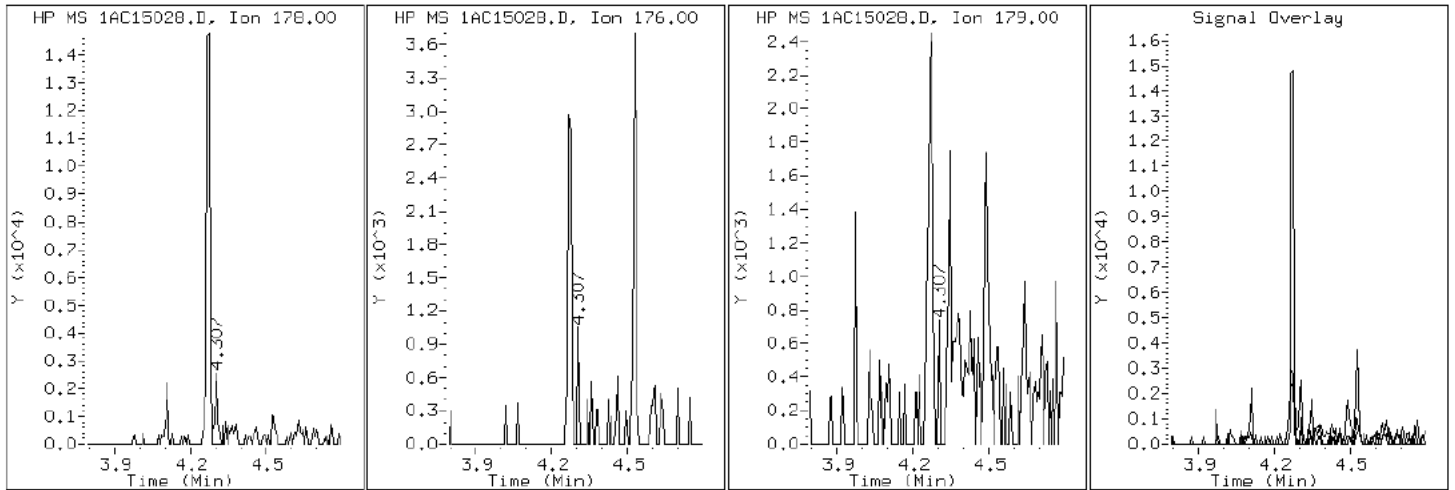
Client ID: CV0713B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-14-a

Operator: SCC

12 Anthracene



Data File: 1AC15028.D

Date: 15-MAR-2013 19:35

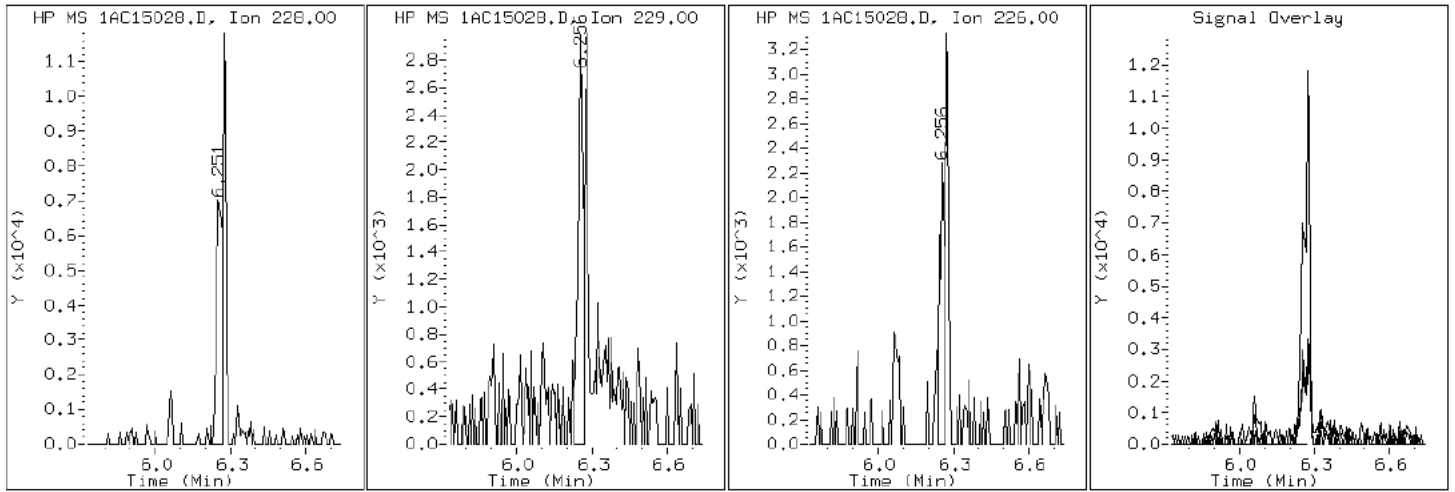
Client ID: CV0713B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-14-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15028.D

Date: 15-MAR-2013 19:35

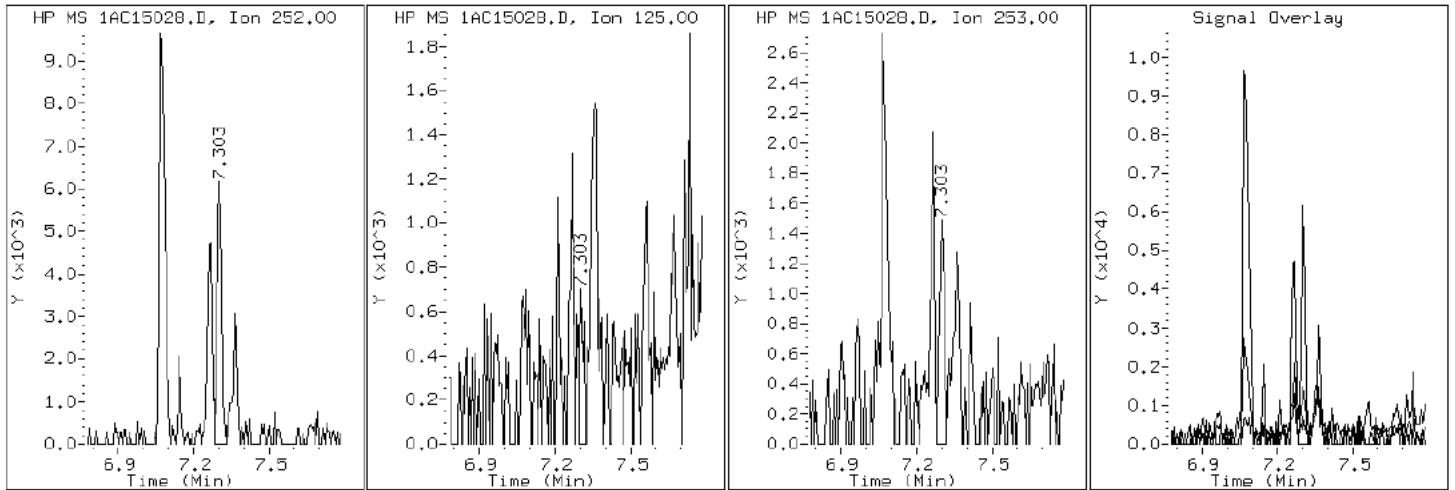
Client ID: CV0713B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-14-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15028.D

Date: 15-MAR-2013 19:35

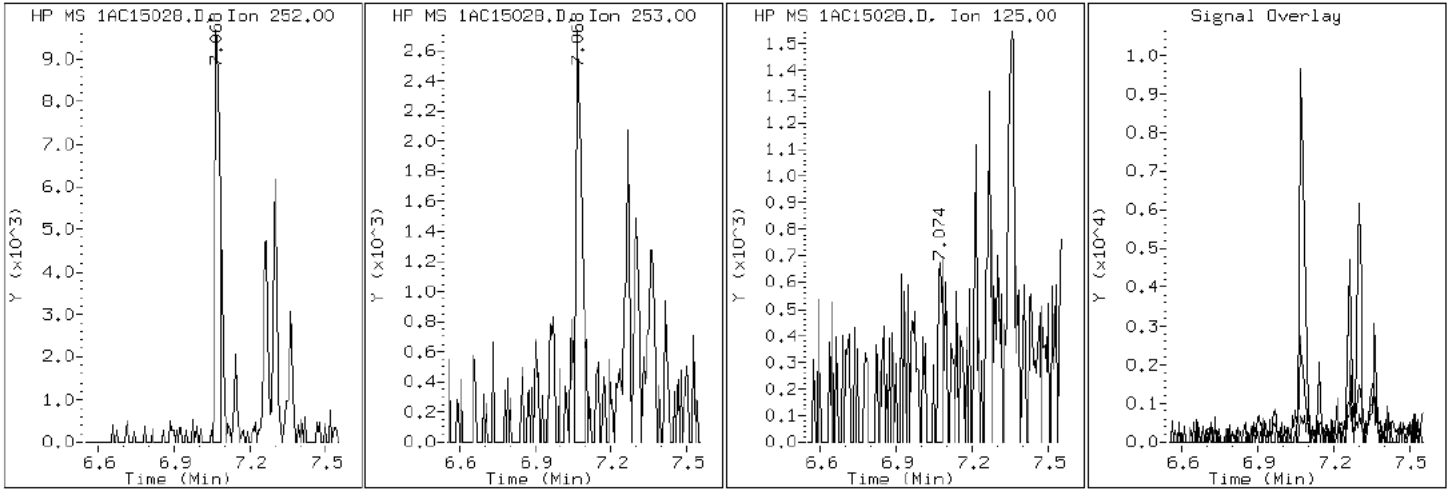
Client ID: CV0713B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-14-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15028.D

Date: 15-MAR-2013 19:35

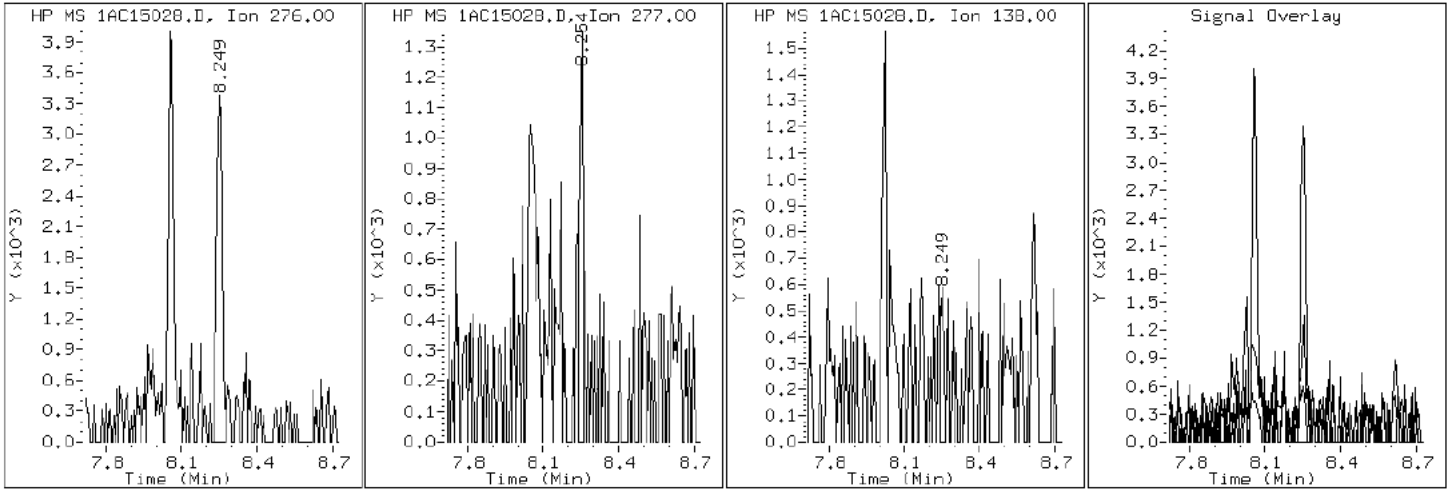
Client ID: CV0713B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-14-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15028.D

Date: 15-MAR-2013 19:35

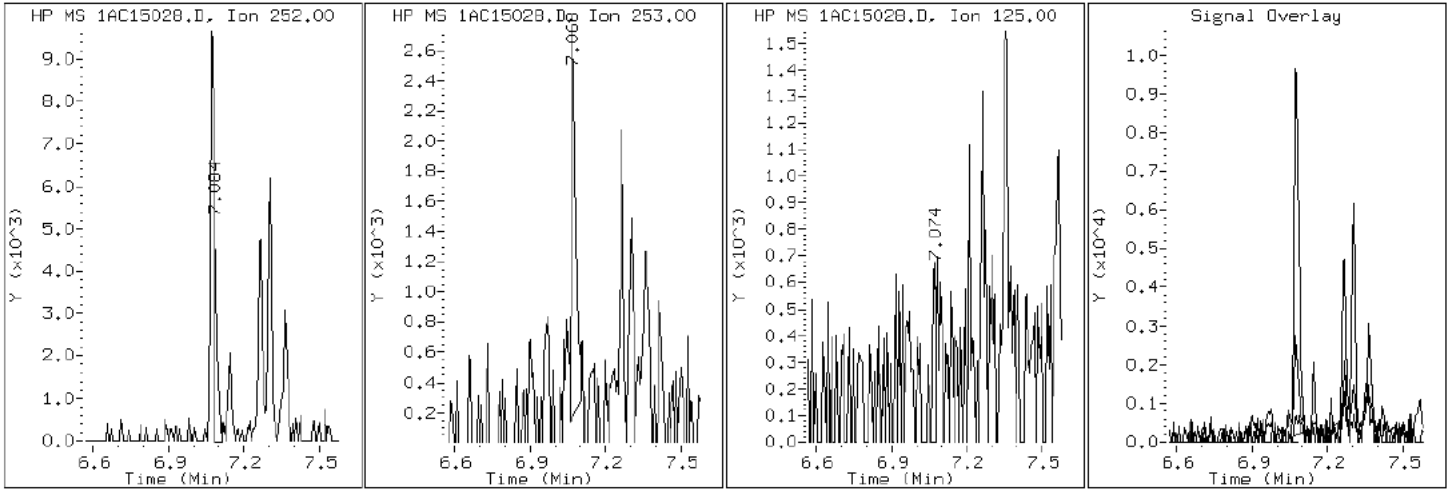
Client ID: CV0713B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-14-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15028.D

Date: 15-MAR-2013 19:35

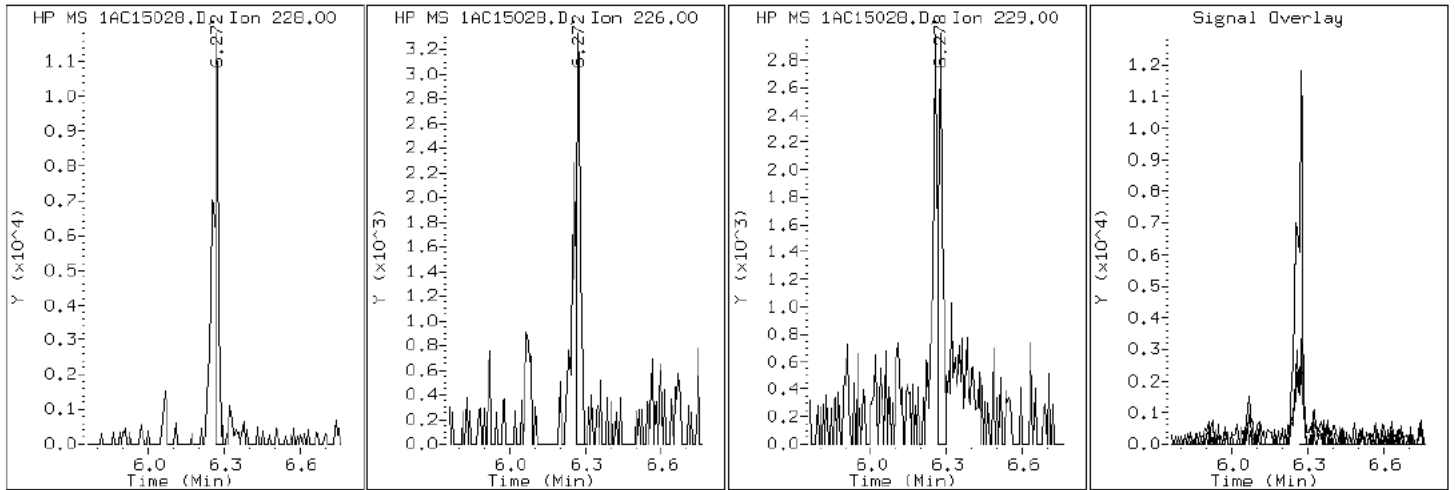
Client ID: CV0713B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-14-a

Operator: SCC

19 Chrysene



Data File: 1AC15028.D

Date: 15-MAR-2013 19:35

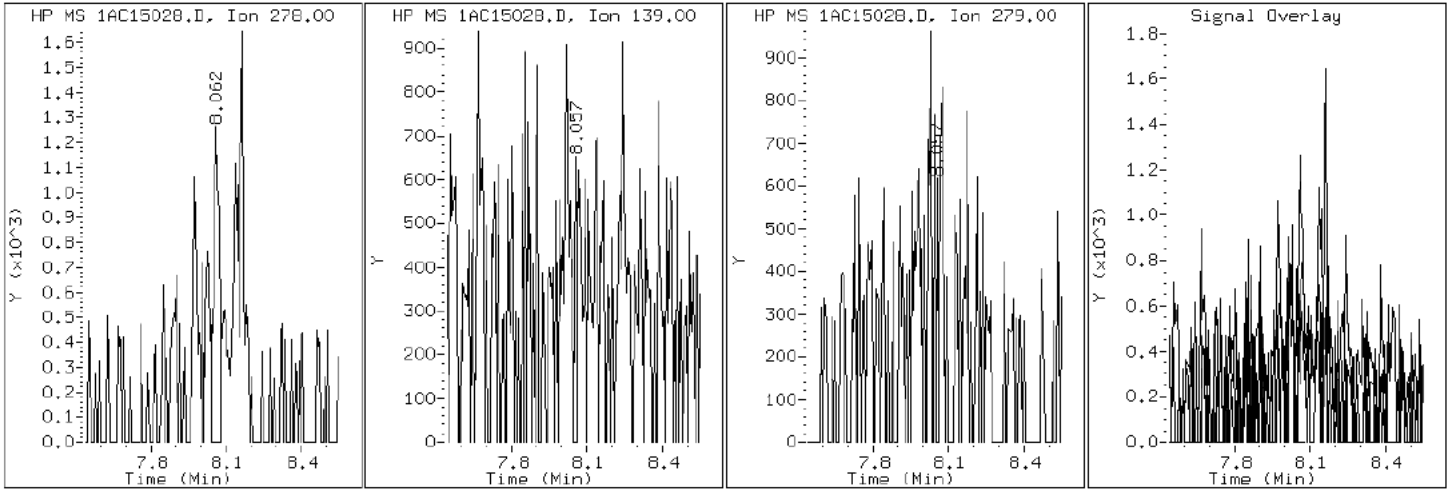
Client ID: CV0713B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-14-a

Operator: SCC

25 Dibenzo (a,h)anthracene



Data File: 1AC15028.D

Date: 15-MAR-2013 19:35

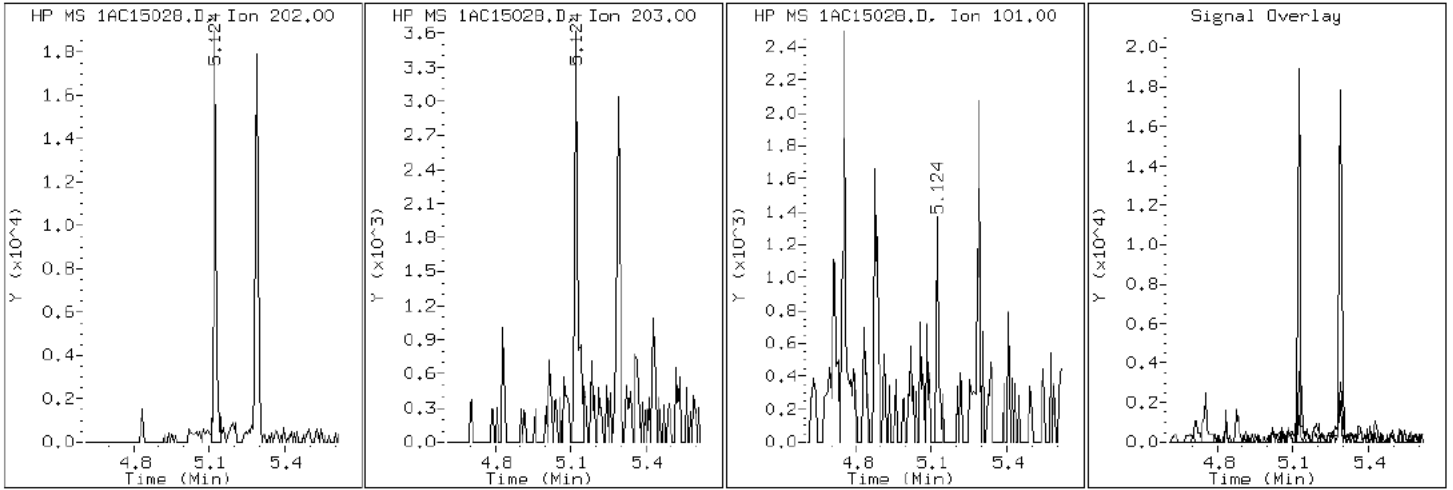
Client ID: CV0713B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-14-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15028.D

Date: 15-MAR-2013 19:35

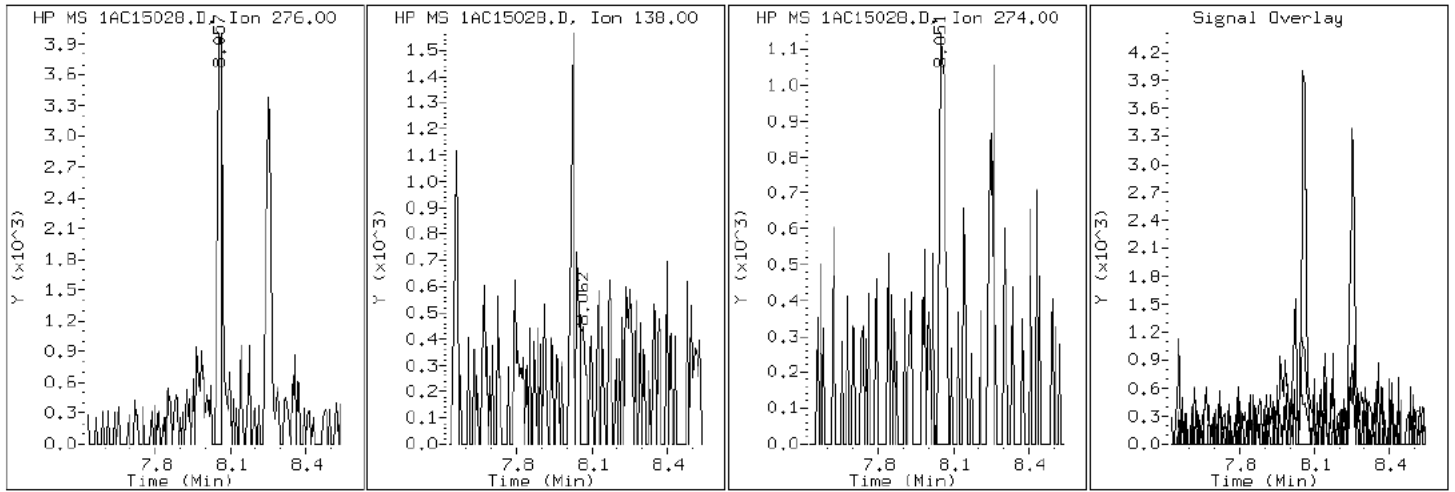
Client ID: CV0713B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-14-a

Operator: SCC

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



Data File: 1AC15028.D

Date: 15-MAR-2013 19:35

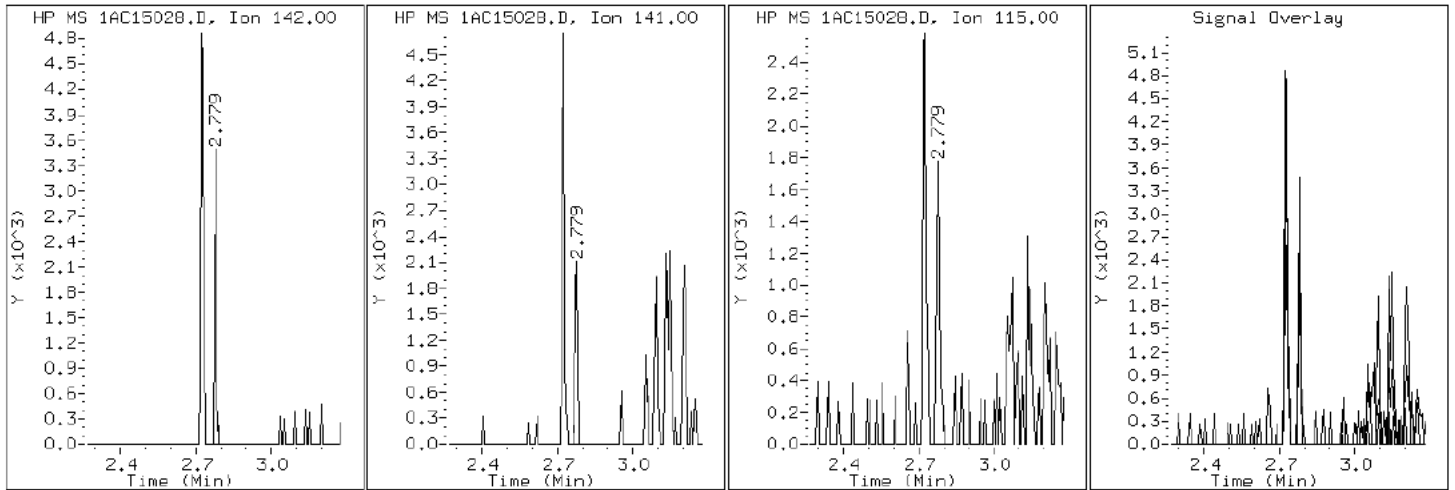
Client ID: CV0713B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-14-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15028.D

Date: 15-MAR-2013 19:35

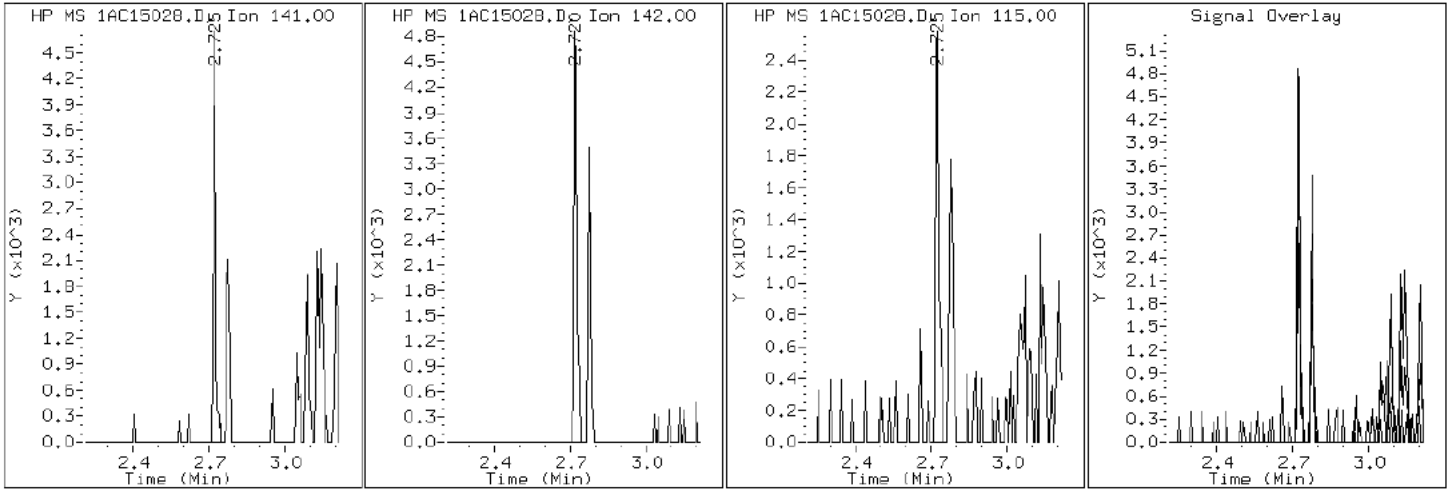
Client ID: CV0713B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-14-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15028.D

Date: 15-MAR-2013 19:35

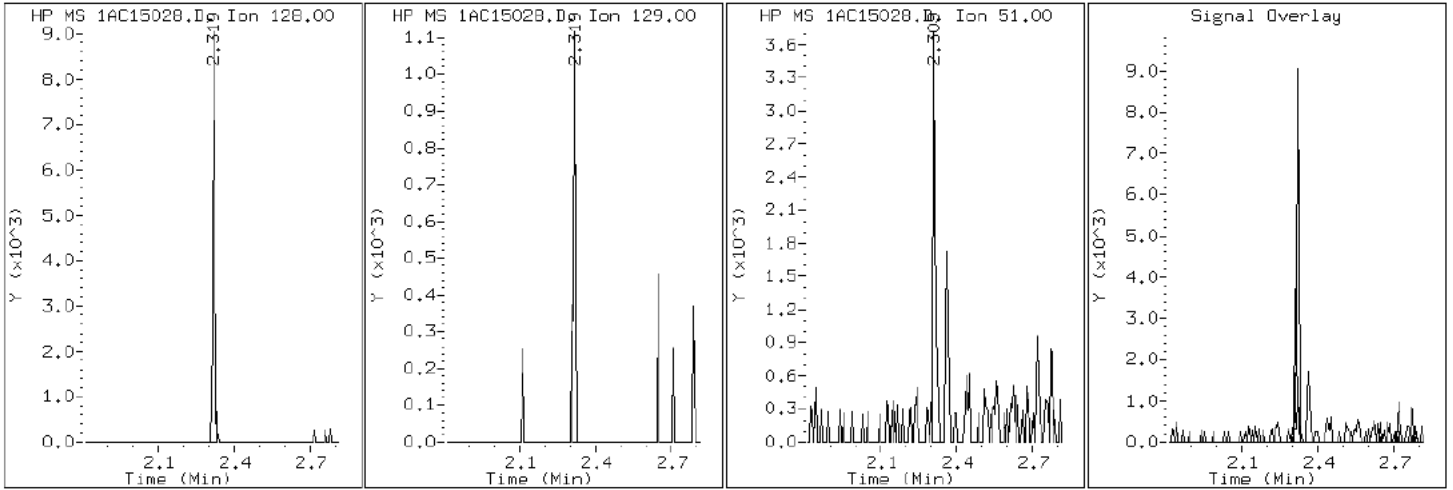
Client ID: CV0713B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-14-a

Operator: SCC

2 Naphthalene



Data File: 1AC15028.D

Date: 15-MAR-2013 19:35

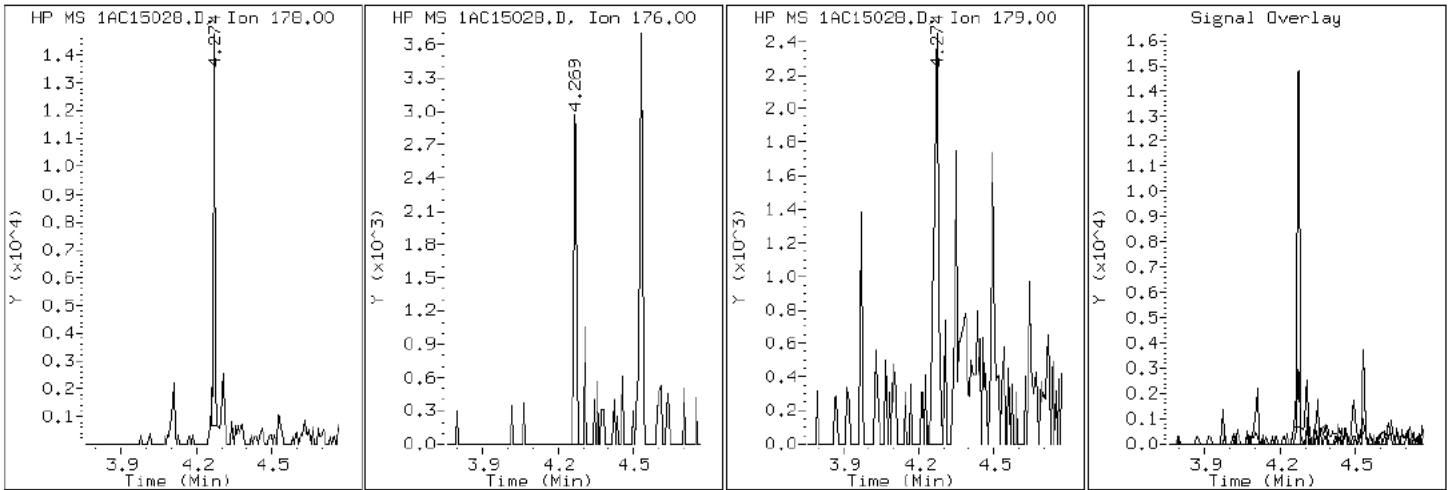
Client ID: CV0713B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-14-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15028.D

Date: 15-MAR-2013 19:35

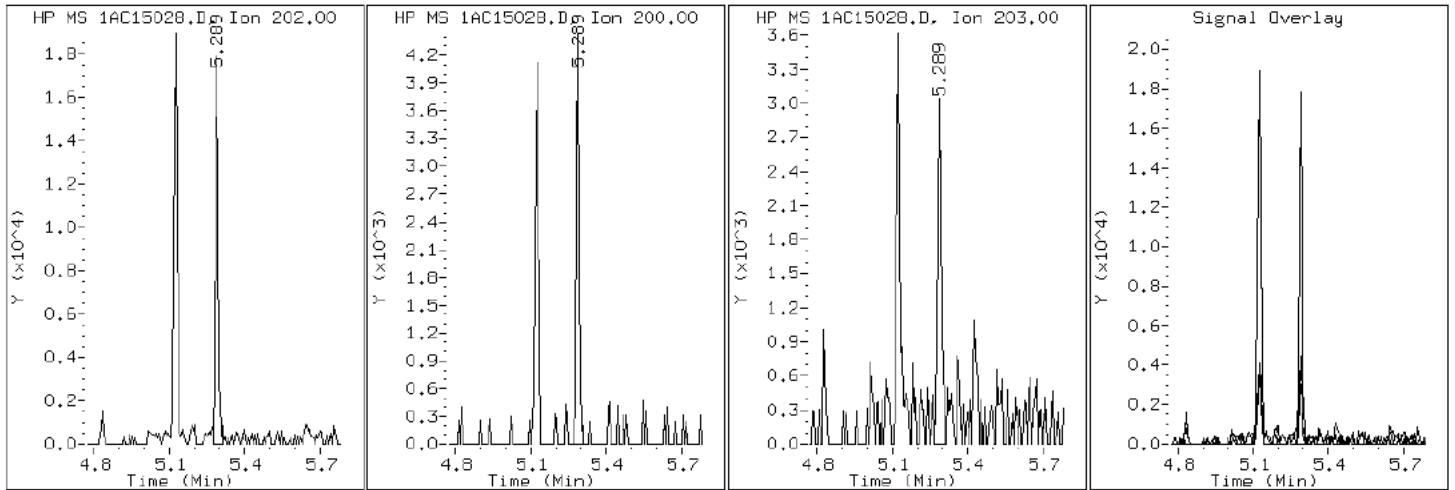
Client ID: CV0713B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-14-a

Operator: SCC

16 Pyrene

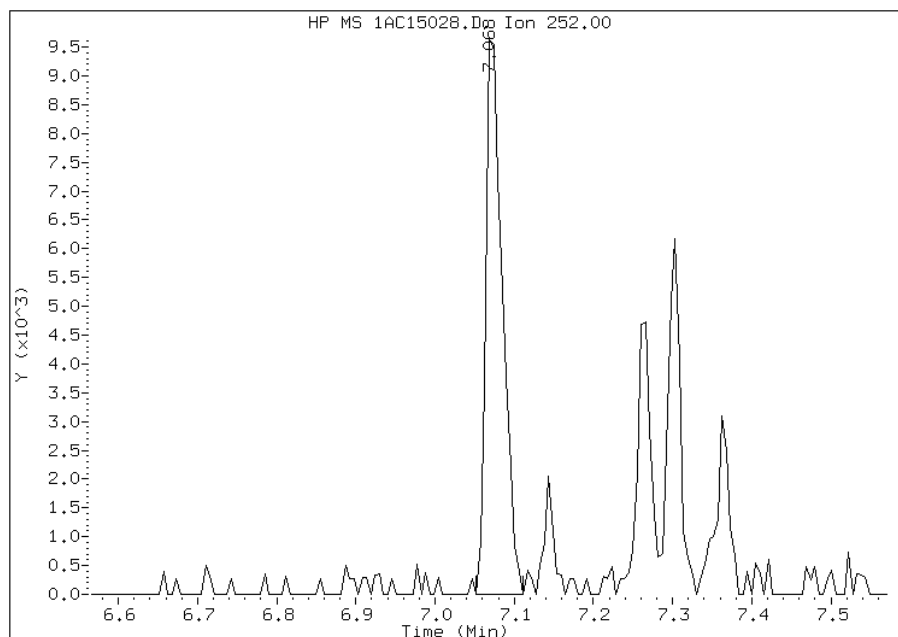


Manual Integration Report

Data File: 1AC15028.D
Inj. Date and Time: 15-MAR-2013 19:35
Instrument ID: BSMA5973.i
Client ID: CV0713B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

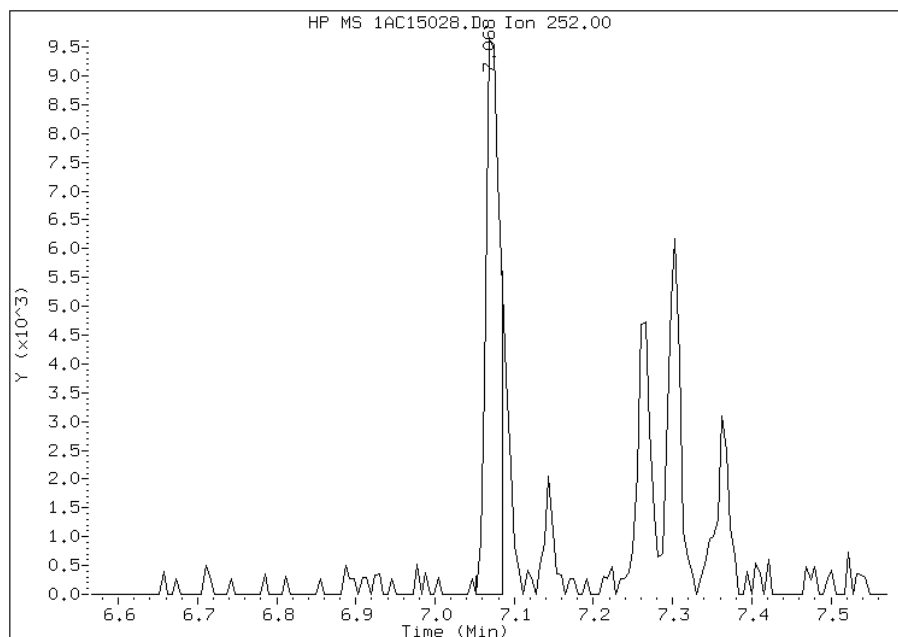
Processing Integration Results

RT: 7.07
Response: 13906
Amount: 2
Conc: 206



Manual Integration Results

RT: 7.07
Response: 11593
Amount: 2
Conc: 189



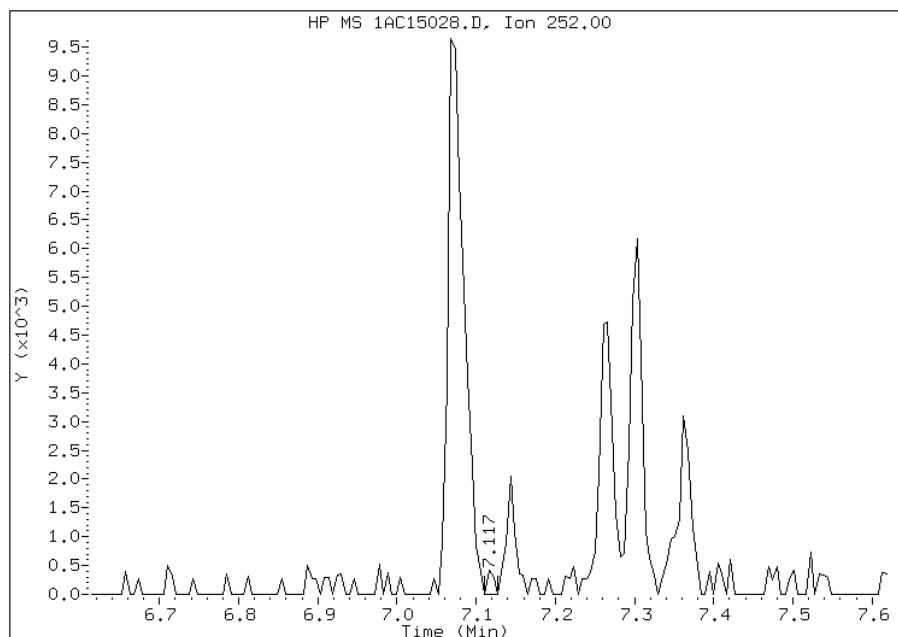
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:13
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15028.D
Inj. Date and Time: 15-MAR-2013 19:35
Instrument ID: BSMA5973.i
Client ID: CV0713B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

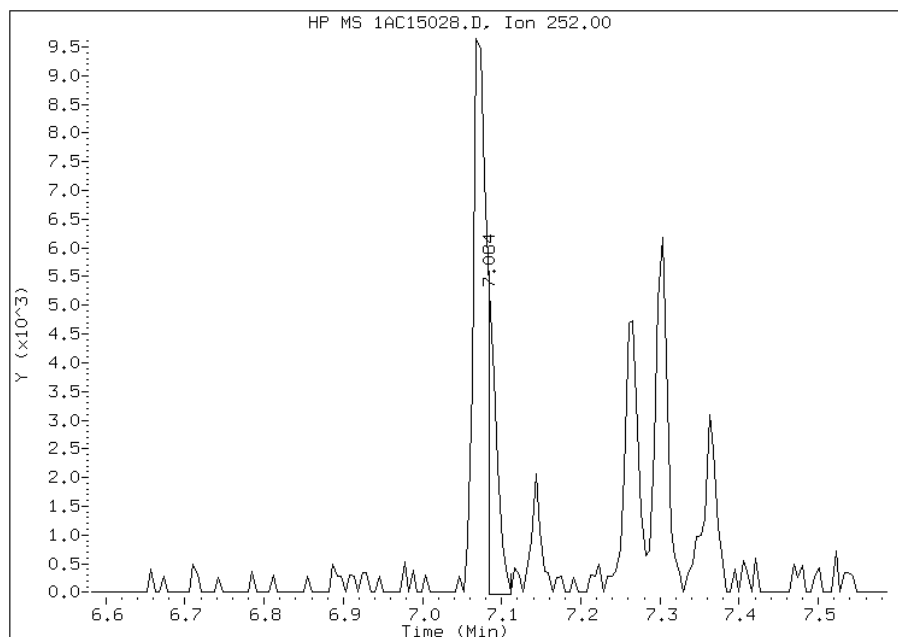
Processing Integration Results

RT: 7.12
Response: 229
Amount: 0
Conc: 2



Manual Integration Results

RT: 7.08
Response: 4077
Amount: 0
Conc: 31



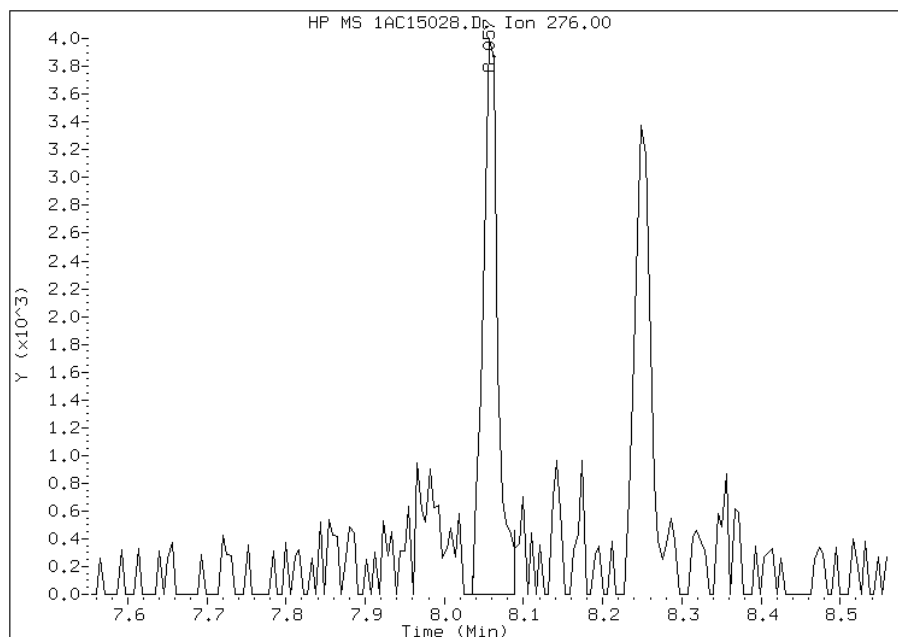
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15028.D
Inj. Date and Time: 15-MAR-2013 19:35
Instrument ID: BSMA5973.i
Client ID: CV0713B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

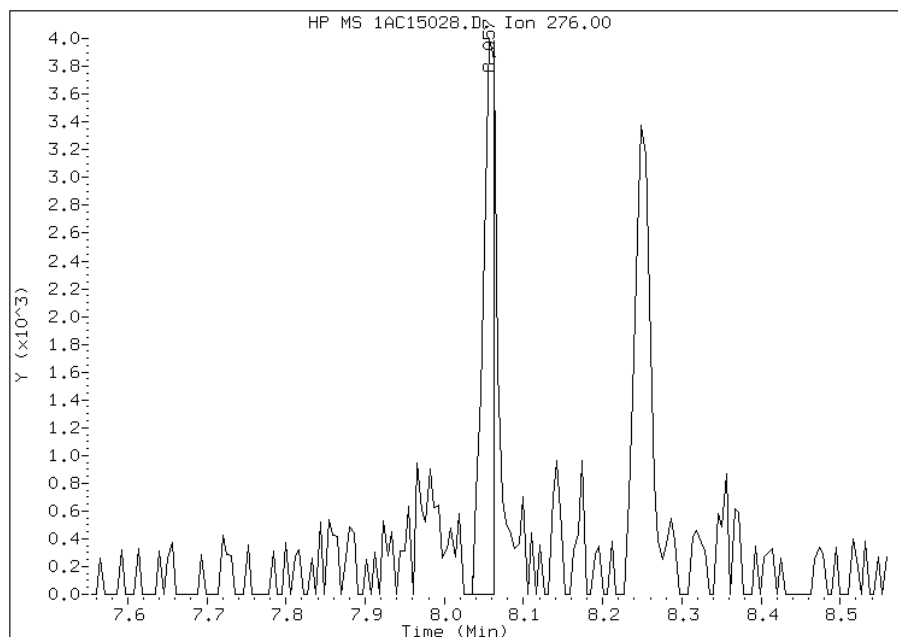
Processing Integration Results

RT: 8.06
Response: 5165
Amount: 1
Conc: 50



Manual Integration Results

RT: 8.06
Response: 4014
Amount: 0
Conc: 39



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0844A-CS Lab Sample ID: 680-88118-15
 Matrix: Solid Lab File ID: 1AC15029.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 09:30
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.06(g) Date Analyzed: 03/15/2013 19:50
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 20.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	96	J	130	25
208-96-8	Acenaphthylene	40	J	50	6.3
120-12-7	Anthracene	390		11	5.3
56-55-3	Benzo[a]anthracene	2000		10	4.9
50-32-8	Benzo[a]pyrene	1400		13	6.5
205-99-2	Benzo[b]fluoranthene	2000		15	7.7
191-24-2	Benzo[g,h,i]perylene	900		25	5.5
207-08-9	Benzo[k]fluoranthene	740		10	4.5
218-01-9	Chrysene	1800		11	5.7
53-70-3	Dibenz(a,h)anthracene	360		25	5.2
86-73-7	Fluorene	85		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	900		25	8.9
90-12-0	1-Methylnaphthalene	50		50	5.5
91-57-6	2-Methylnaphthalene	130		50	8.9
91-20-3	Naphthalene	59		50	5.5
85-01-8	Phenanthrene	2500		10	4.9

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15029.D
 Lab Smp Id: 680-88118-A-15-A Client Smp ID: CV0844A-CS
 Inj Date : 15-MAR-2013 19:50
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-15-a
 Misc Info : 680-88118-A-15-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 29
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.060	Weight Extracted
M	20.833	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.308	2.303	(1.000)	452929	40.0000	
* 6 Acenaphthene-d10	164		3.334	3.324	(1.000)	348027	40.0000	
* 10 Phenanthrene-d10	188		4.258	4.248	(1.000)	508597	40.0000	
\$ 14 o-Terphenyl	230		4.530	4.526	(1.064)	38087	5.76486	483.5275
* 18 Chrysene-d12	240		6.272	6.246	(1.000)	426726	40.0000	(H)
* 23 Perylene-d12	264		7.367	7.330	(1.000)	475480	40.0000	(H)
2 Naphthalene	128		2.319	2.314	(1.005)	7405	0.70765	59.3543
3 2-Methylnaphthalene	141		2.725	2.715	(1.181)	3925	1.49231	125.1678
4 1-Methylnaphthalene	142		2.778	2.773	(1.204)	3581	0.59514	49.9169
5 Acenaphthylene	152		3.248	3.238	(0.974)	3870	0.47814	40.1042
7 Acenaphthene	154		3.350	3.345	(1.005)	5245	1.14578	96.1019
9 Fluorene	166		3.654	3.649	(1.096)	6890	1.01376	85.0294
11 Phenanthrene	178		4.274	4.264	(1.004)	380582	29.5248	2476.3928
12 Anthracene	178		4.306	4.296	(1.011)	57439	4.59557	385.4537

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.472	4.456 (1.050)		60296	5.50402	461.6500
15 Fluoranthene	202	5.139	5.113 (1.207)		806948	63.3301	5311.8168(A)
16 Pyrene	202	5.300	5.279 (0.845)		644202	52.6514	4416.1411(A)
17 Benzo(a)anthracene	228	6.266	6.235 (0.999)		299338	24.3585	2043.0702(H)
19 Chrysene	228	6.288	6.262 (1.003)		233179	21.0977	1769.5667(H)
20 Benzo(b)fluoranthene	252	7.089	7.052 (0.962)		304414	24.4371	2049.6641(MH)
21 Benzo(k)fluoranthene	252	7.100	7.074 (0.964)		112566	8.77662	736.1395(QMH)
22 Benzo(a)pyrene	252	7.319	7.282 (0.993)		180739	16.1974	1358.5544(H)
24 Indeno(1,2,3-cd)pyrene	276	8.077	8.035 (1.096)		107579	10.6848	896.1896(MH)
25 Dibenzo(a,h)anthracene	278	8.083	8.045 (1.097)		42539	4.26297	357.5565(H)
26 Benzo(g,h,i)perylene	276	8.275	8.222 (1.123)		109116	10.7664	903.0322(H)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: 1AC15029.D

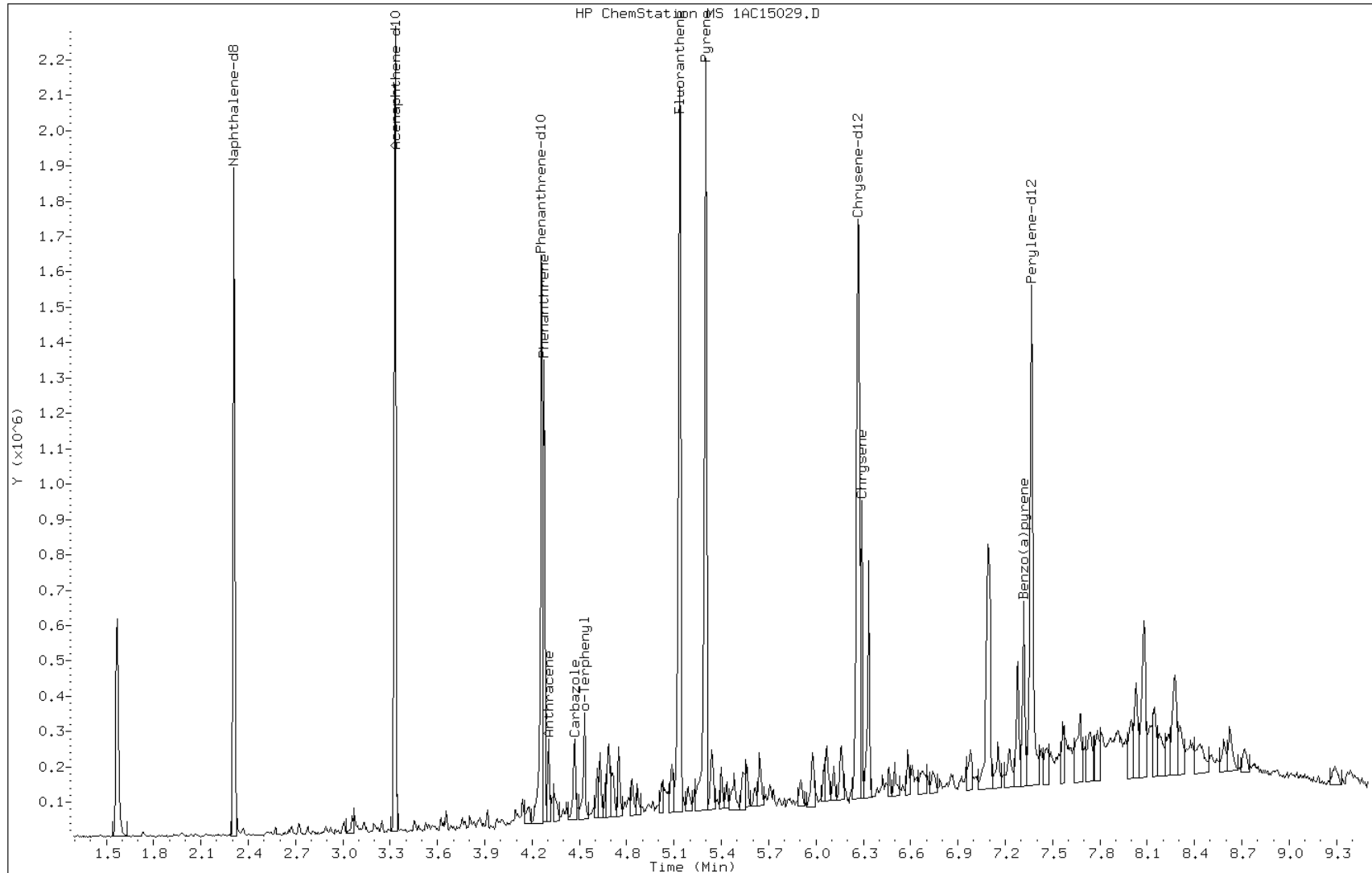
Date: 15-MAR-2013 19:50

Client ID: CV0844A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-15-a

Operator: SCC



Data File: 1AC15029.D

Date: 15-MAR-2013 19:50

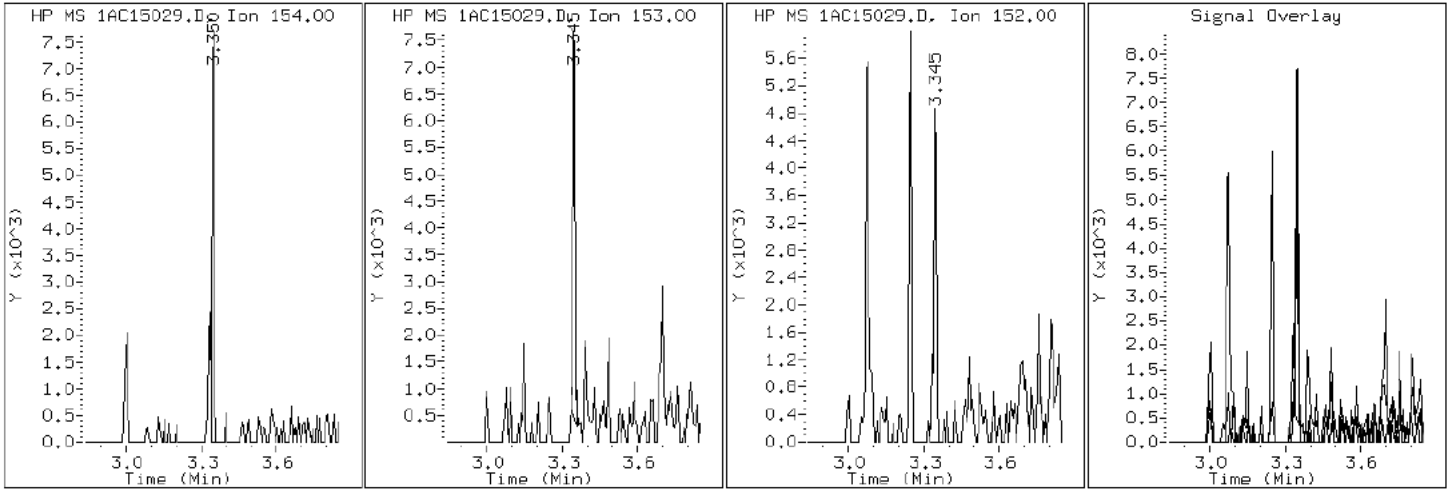
Client ID: CV0844A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-15-a

Operator: SCC

7 Acenaphthene



Data File: 1AC15029.D

Date: 15-MAR-2013 19:50

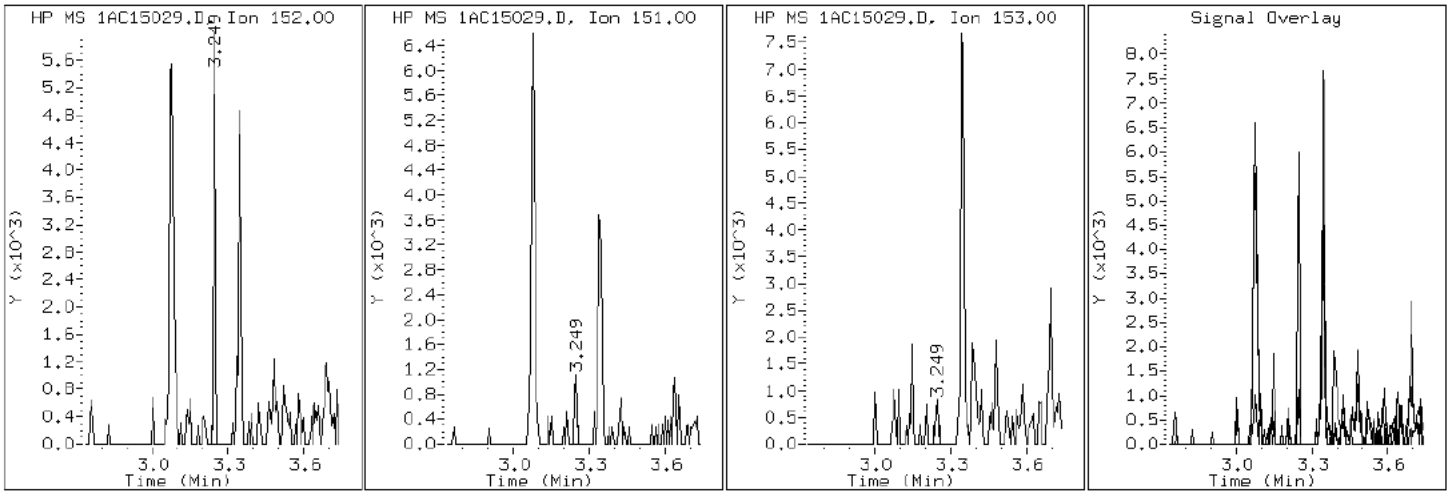
Client ID: CV0844A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-15-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15029.D

Date: 15-MAR-2013 19:50

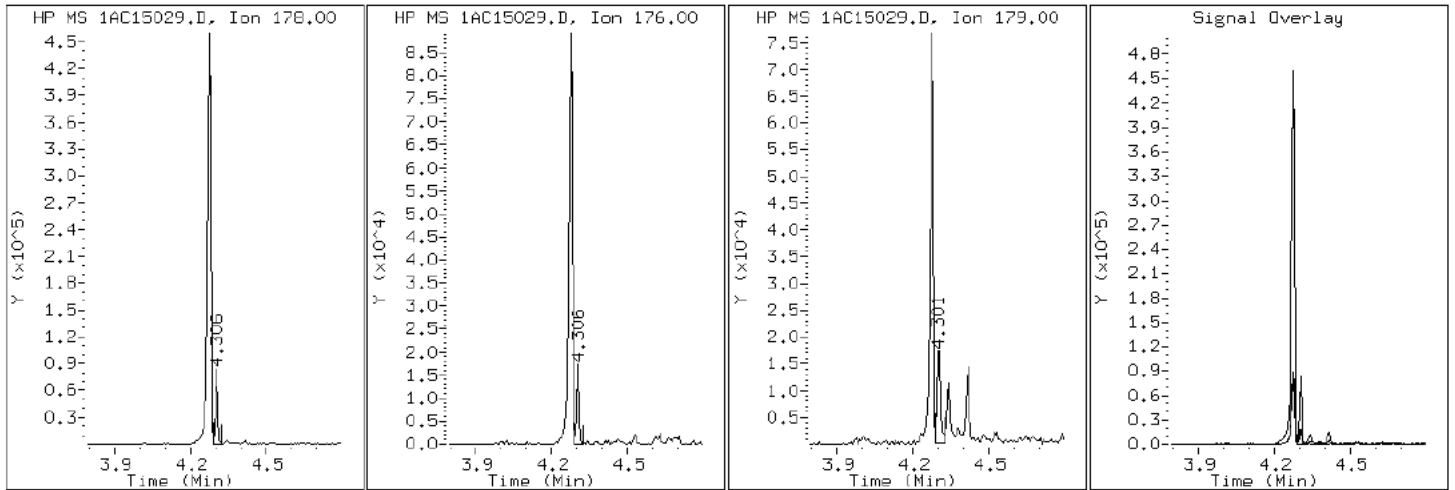
Client ID: CV0844A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-15-a

Operator: SCC

12 Anthracene



Data File: 1AC15029.D

Date: 15-MAR-2013 19:50

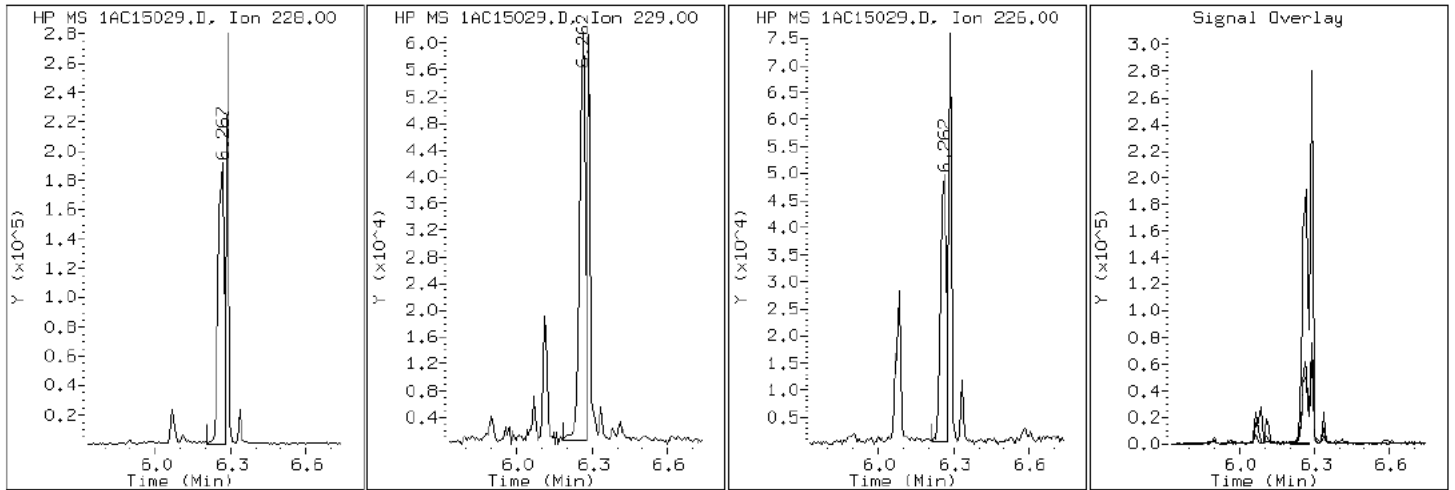
Client ID: CV0844A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-15-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15029.D

Date: 15-MAR-2013 19:50

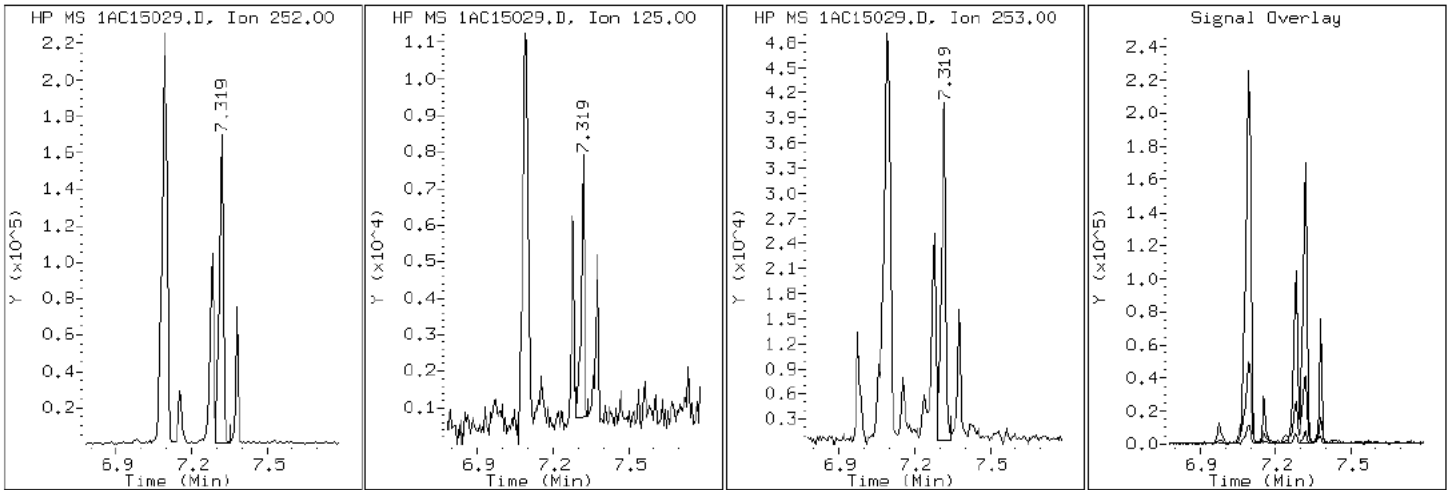
Client ID: CV0844A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-15-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15029.D

Date: 15-MAR-2013 19:50

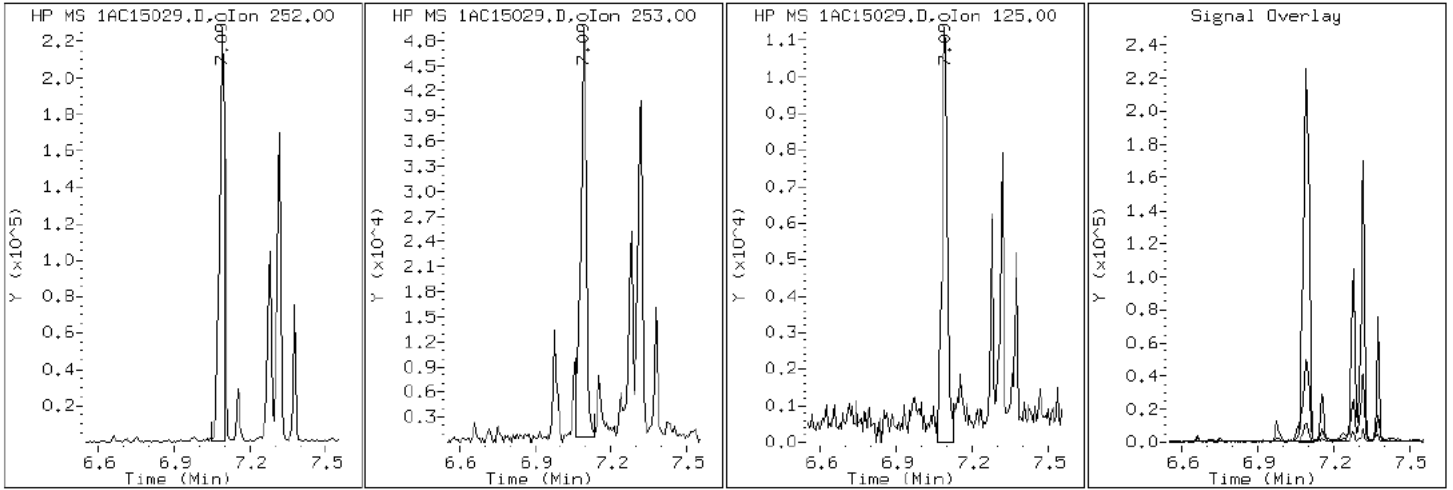
Client ID: CV0844A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-15-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15029.D

Date: 15-MAR-2013 19:50

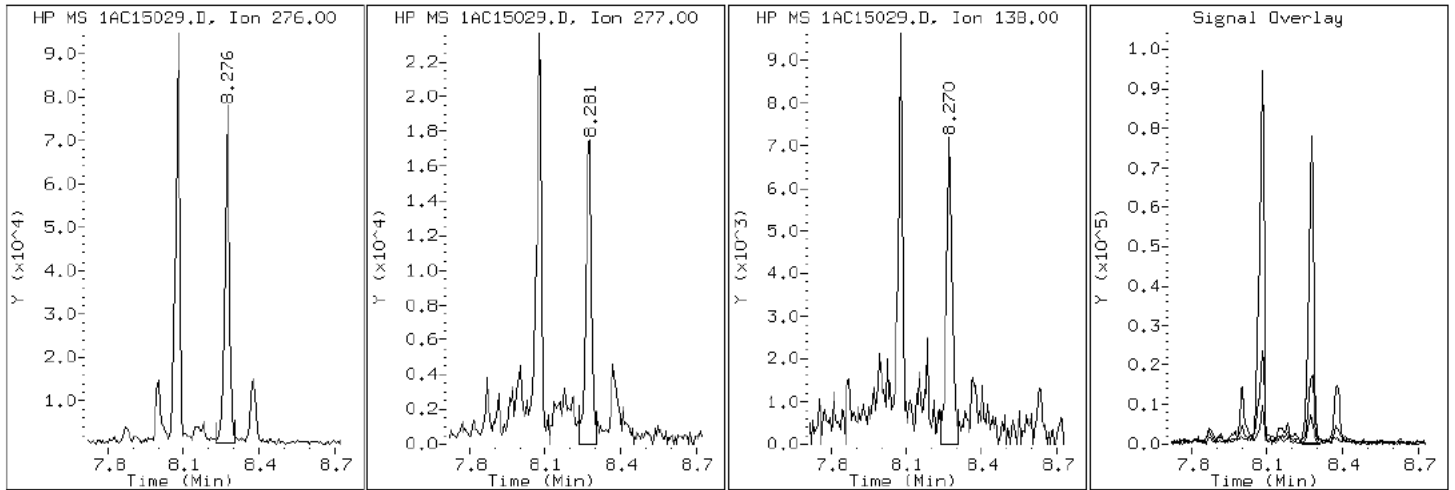
Client ID: CV0844A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-15-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15029.D

Date: 15-MAR-2013 19:50

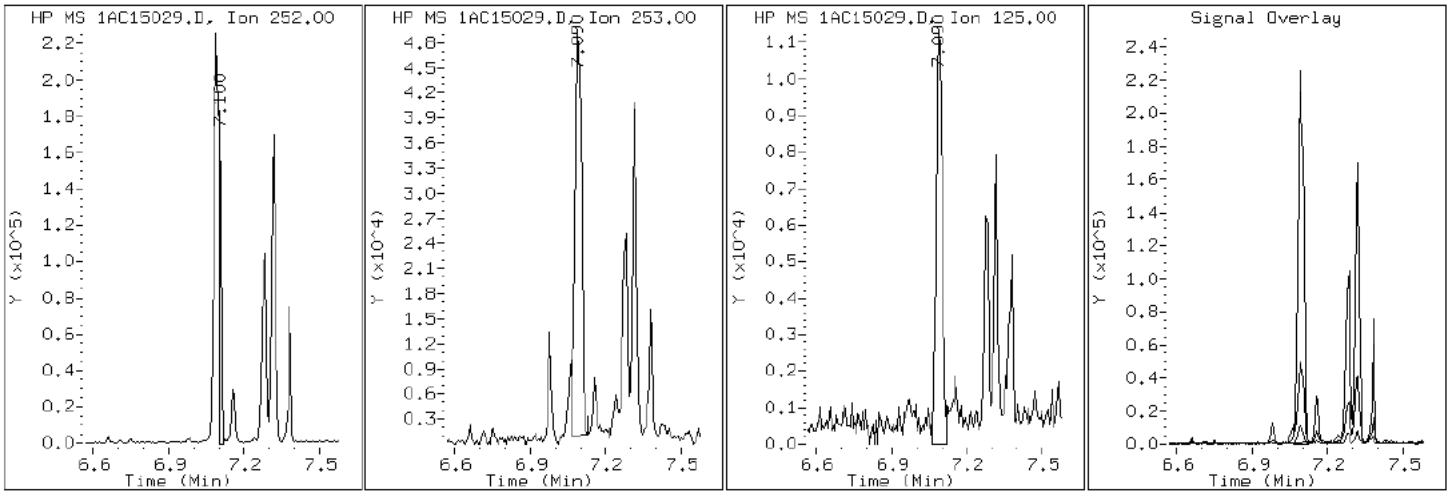
Client ID: CV0844A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-15-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15029.D

Date: 15-MAR-2013 19:50

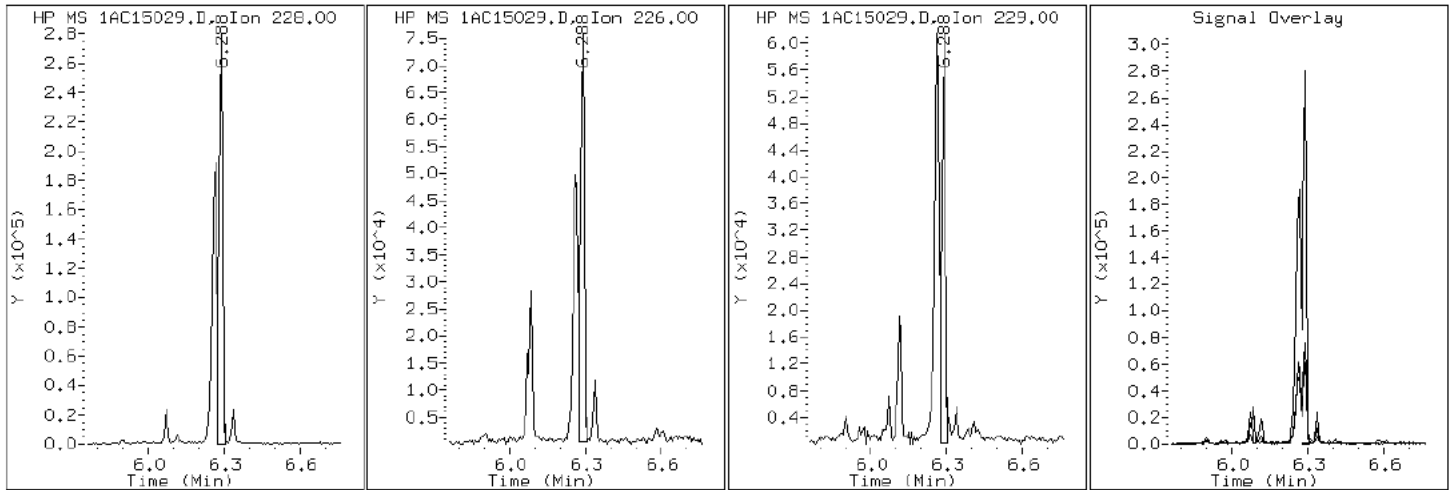
Client ID: CV0844A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-15-a

Operator: SCC

19 Chrysene



Data File: 1AC15029.D

Date: 15-MAR-2013 19:50

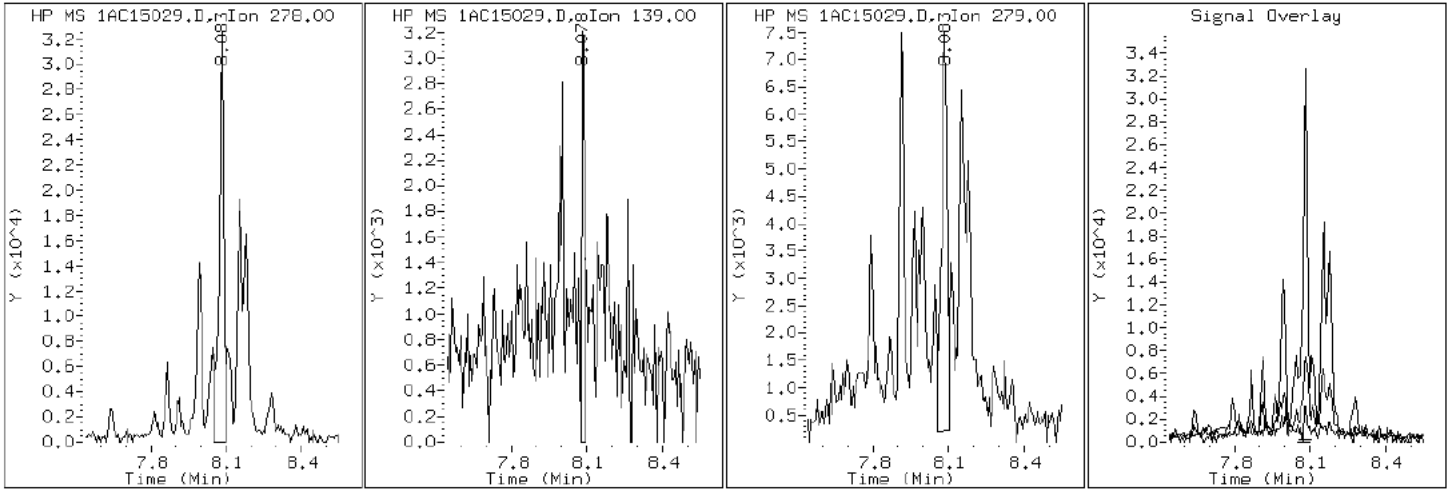
Client ID: CV0844A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-15-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC15029.D

Date: 15-MAR-2013 19:50

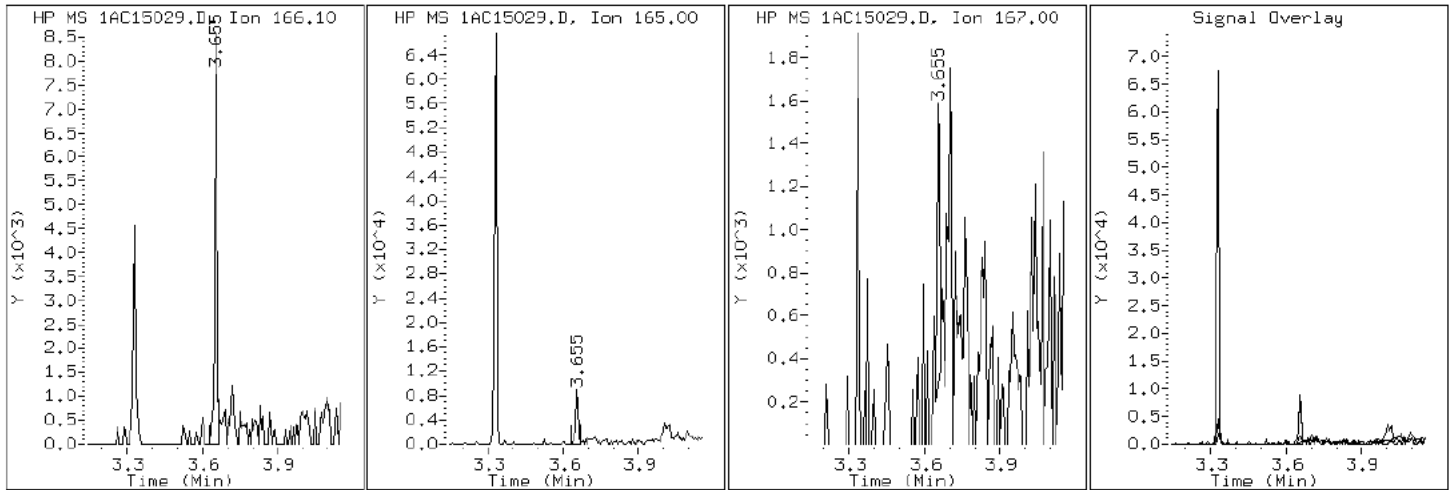
Client ID: CV0844A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-15-a

Operator: SCC

9 Fluorene



Data File: 1AC15029.D

Date: 15-MAR-2013 19:50

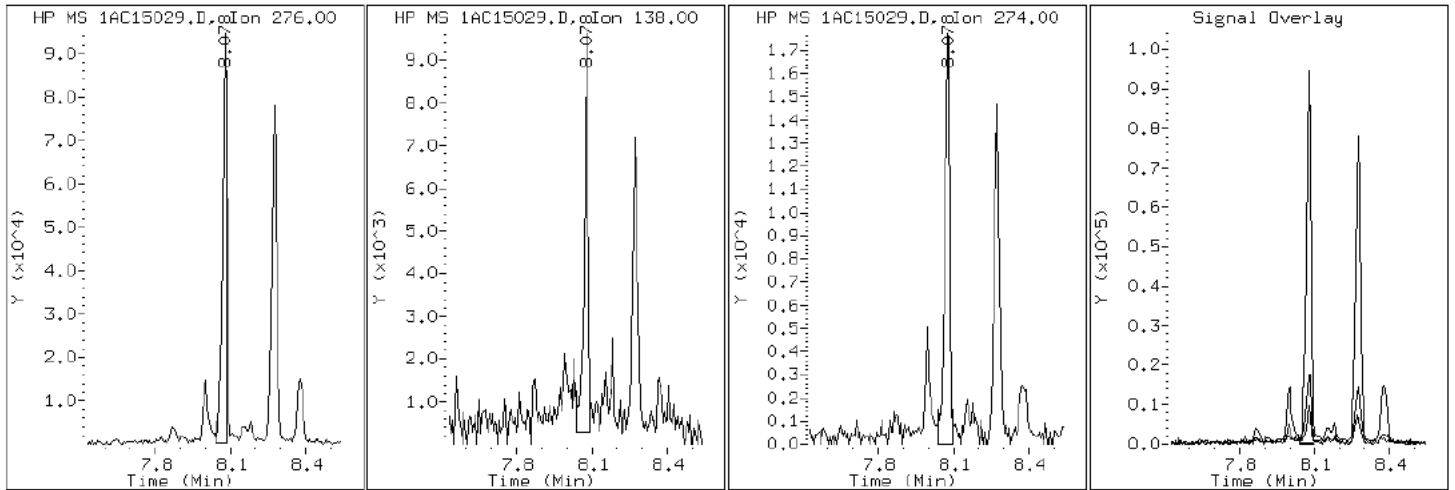
Client ID: CV0844A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-15-a

Operator: SCC

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



Data File: 1AC15029.D

Date: 15-MAR-2013 19:50

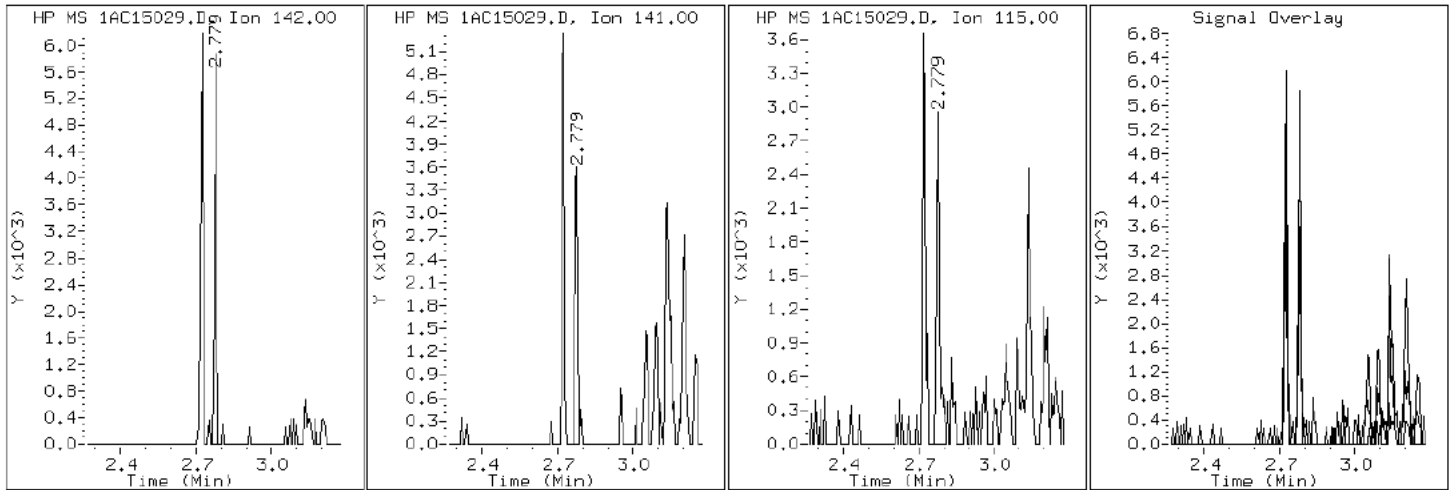
Client ID: CV0844A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-15-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15029.D

Date: 15-MAR-2013 19:50

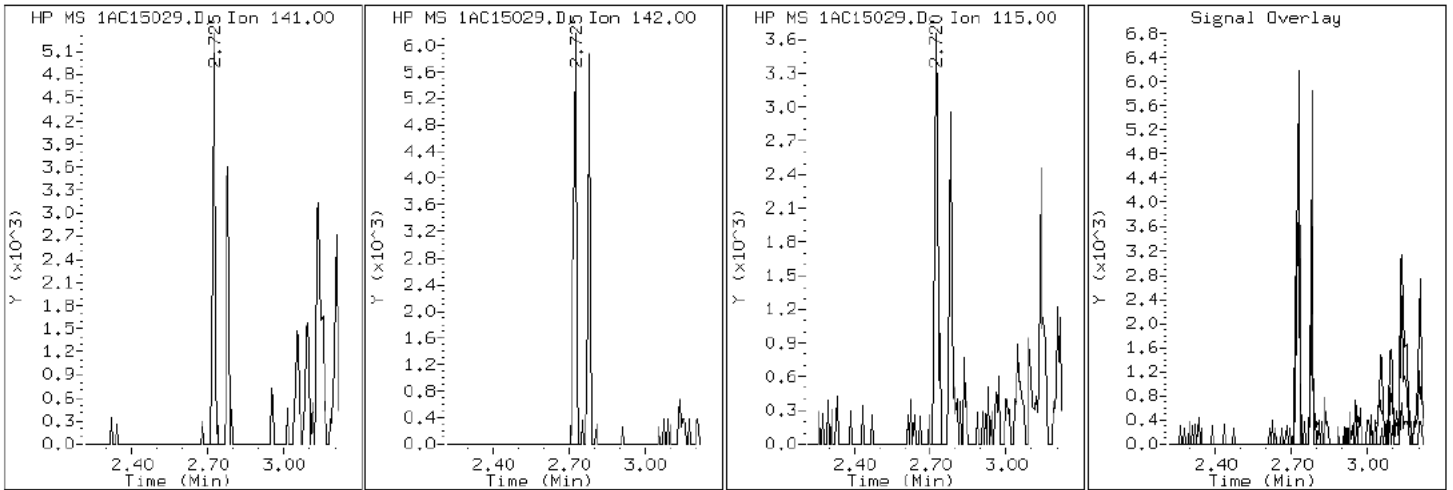
Client ID: CV0844A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-15-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15029.D

Date: 15-MAR-2013 19:50

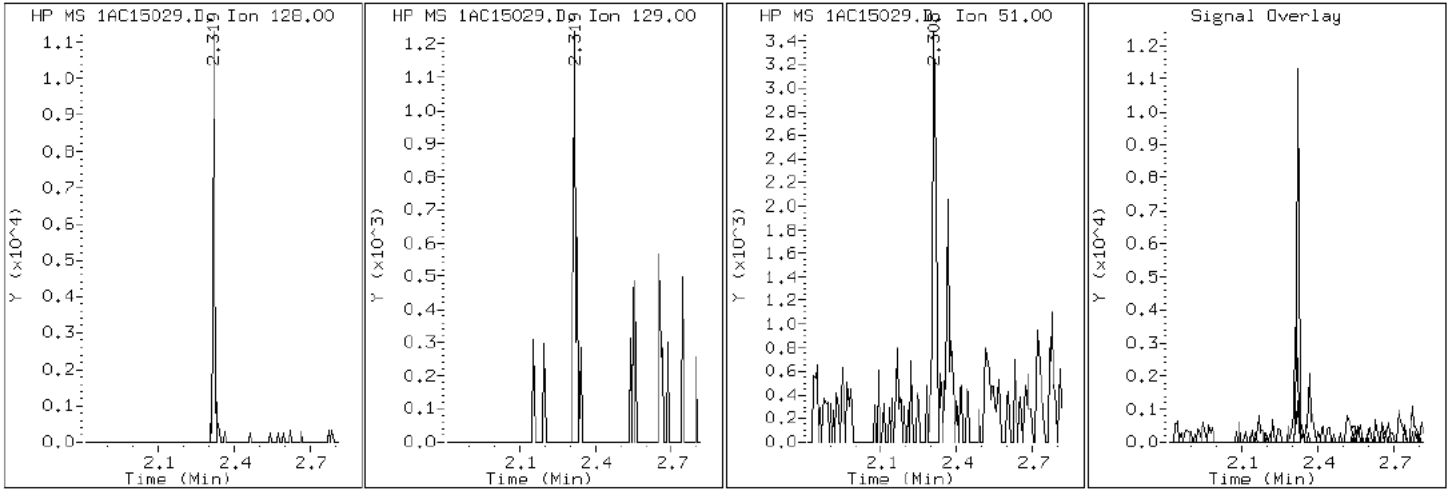
Client ID: CV0844A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-15-a

Operator: SCC

2 Naphthalene



Data File: 1AC15029.D

Date: 15-MAR-2013 19:50

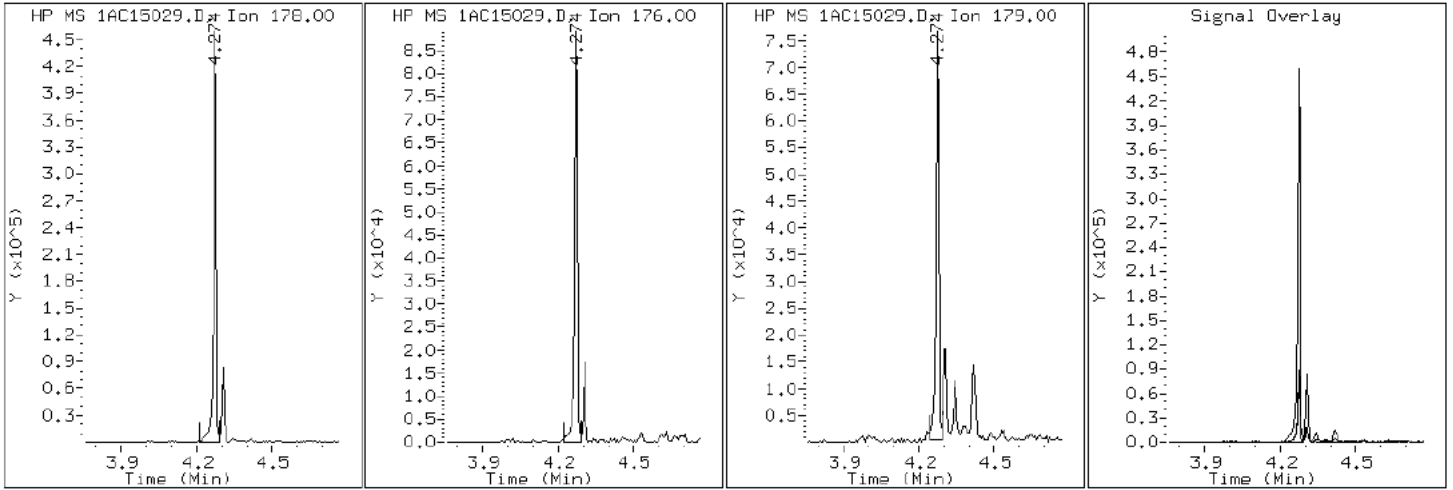
Client ID: CV0844A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-15-a

Operator: SCC

11 Phenanthrene

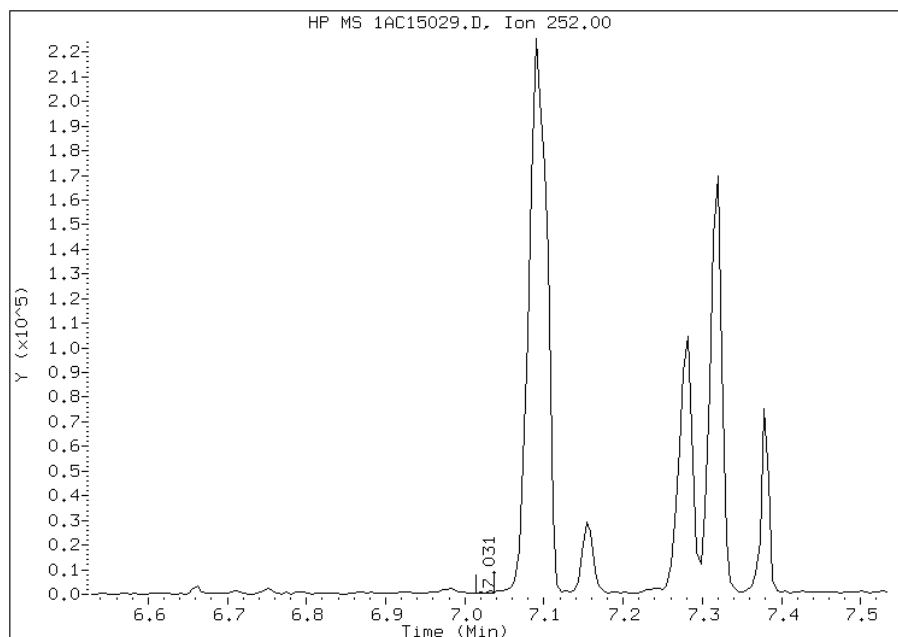


Manual Integration Report

Data File: 1AC15029.D
Inj. Date and Time: 15-MAR-2013 19:50
Instrument ID: BSMA5973.i
Client ID: CV0844A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

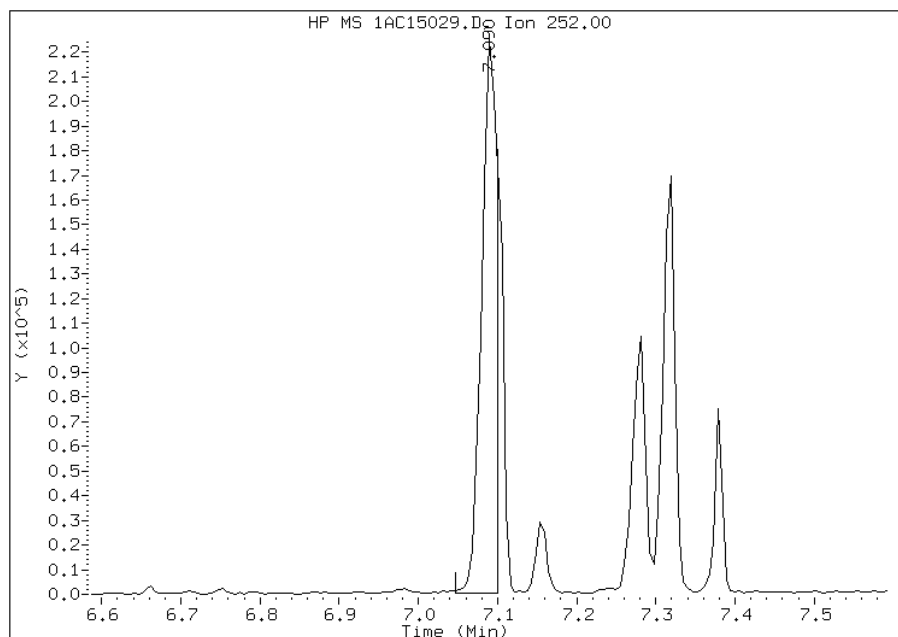
Processing Integration Results

RT: 7.03
Response: 897
Amount: 1
Conc: 107



Manual Integration Results

RT: 7.09
Response: 304414
Amount: 24
Conc: 2050



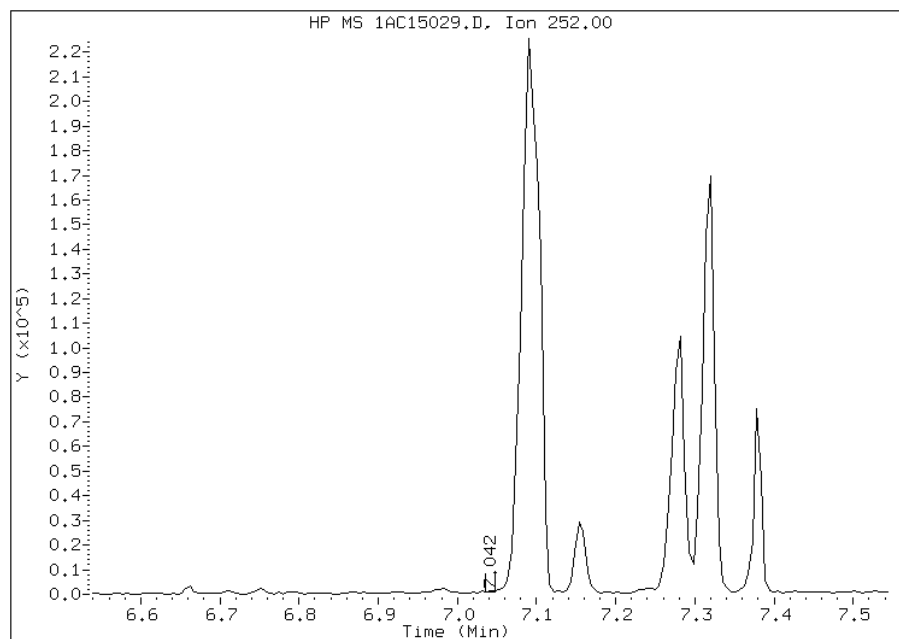
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15029.D
Inj. Date and Time: 15-MAR-2013 19:50
Instrument ID: BSMA5973.i
Client ID: CV0844A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

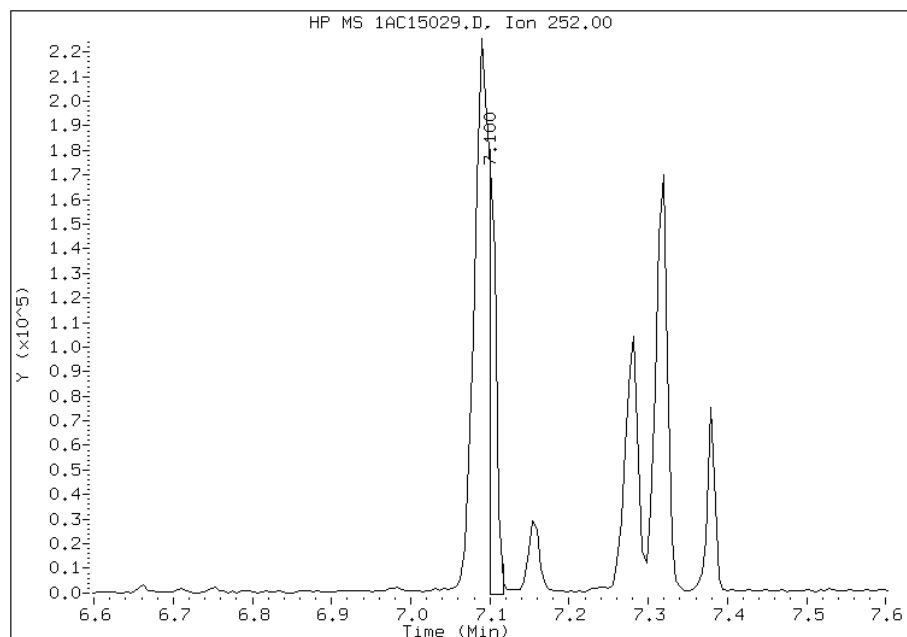
Processing Integration Results

RT: 7.04
Response: 562
Amount: 0
Conc: 4



Manual Integration Results

RT: 7.10
Response: 112566
Amount: 9
Conc: 736



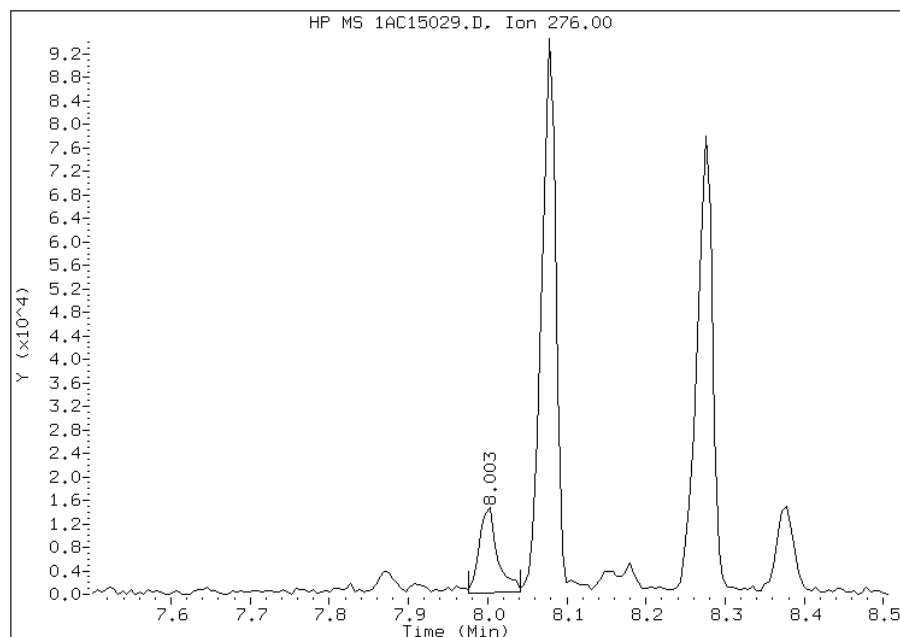
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15029.D
Inj. Date and Time: 15-MAR-2013 19:50
Instrument ID: BSMA5973.i
Client ID: CV0844A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

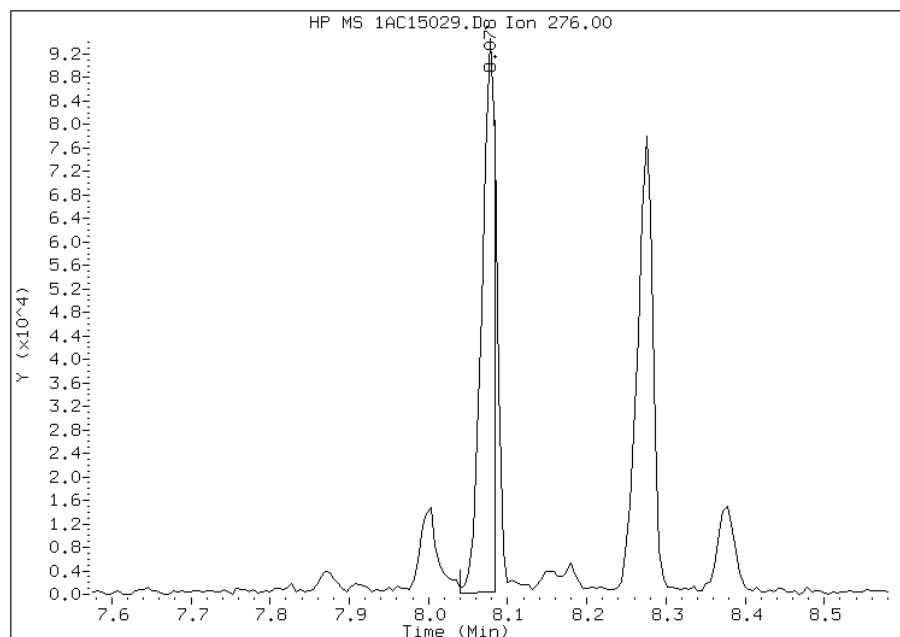
Processing Integration Results

RT: 8.00
Response: 22909
Amount: 2
Conc: 191



Manual Integration Results

RT: 8.08
Response: 107579
Amount: 11
Conc: 896



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0844A-CS DL Lab Sample ID: 680-88118-15 DL
 Matrix: Solid Lab File ID: 1CC19006.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 09:30
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.06(g) Date Analyzed: 03/19/2013 12:30
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 20.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135536 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	3400		100	20
129-00-0	Pyrene	2600		100	19

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031913.b\1CC19006.D
 Lab Smp Id: 680-88118-A-15-A Client Smp ID: CV0844A-CS
 Inj Date : 19-MAR-2013 12:30
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-A-15-A
 Misc Info : 680-88118-A-15-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031913.b\a-bFASTPAHi-m.m
 Meth Date : 19-Mar-2013 11:39 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 6
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.060	Weight Extracted
M	20.833	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.739	3.745	(1.000)	1189549	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	931609	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1738024	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.033	(1.043)	31008	1.18165	396.4447	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	2214072	40.0000		
* 23 Perylene-d12	264		8.903	8.909	(1.000)	2248755	40.0000		
2 Naphthalene	128		3.757	3.757	(1.005)	4583	0.14799	49.6504(Q)	
4 1-Methylnaphthalene	142		4.239	4.245	(1.134)	3198	0.16998	57.0286	
9 Fluorene	166		5.168	5.168	(1.071)	5620	0.19035	63.8626	
11 Phenanthrene	178		5.792	5.792	(1.002)	244291	4.86093	1630.8439	
12 Anthracene	178		5.827	5.827	(1.008)	42160	0.85778	287.7858	
13 Carbazole	167		5.933	5.933	(1.026)	52413	1.19963	402.4762	
15 Fluoranthene	202		6.627	6.633	(1.147)	554032	10.0667	3377.3630	
16 Pyrene	202		6.798	6.798	(0.880)	456417	7.67087	2573.5788	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		----	-----	-----	-----	-----	-----
17 Benzo(a)anthracene	228		7.709	7.715	(0.998)	245818	3.84677	1290.5926
19 Chrysene	228		7.739	7.745	(1.002)	251110	3.92664	1317.3871
20 Benzo(b)fluoranthene	252		8.556	8.562	(0.961)	271063	4.61240	1547.4604(M)
21 Benzo(k)fluoranthene	252		8.568	8.586	(0.962)	134875	2.23721	750.5837(M)
22 Benzo(a)pyrene	252		8.850	8.856	(0.994)	194477	3.40690	1143.0147
24 Indeno(1,2,3-cd)pyrene	276		10.068	10.080	(1.131)	96674	1.80029	603.9964(M)
25 Dibenzo(a,h)anthracene	278		10.080	10.097	(1.132)	30018	0.57150	191.7366
26 Benzo(g,h,i)perylene	276		10.421	10.433	(1.170)	130242	2.31855	777.8738

QC Flag Legend

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

Data File: 1CC19006.D

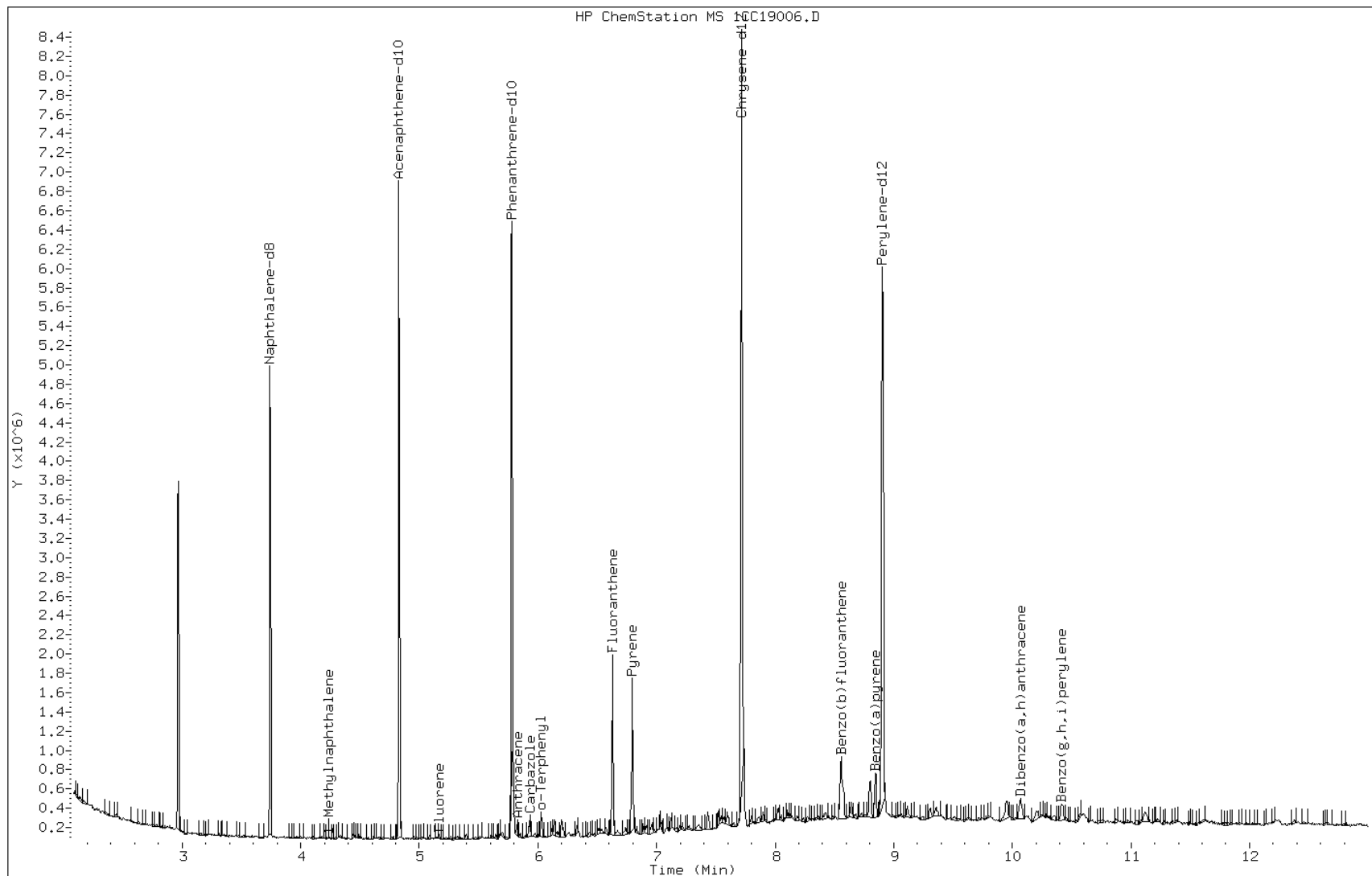
Date: 19-MAR-2013 12:30

Client ID: CV0844A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-A-15-A

Operator: SCC



Data File: 1CC19006.D

Date: 19-MAR-2013 12:30

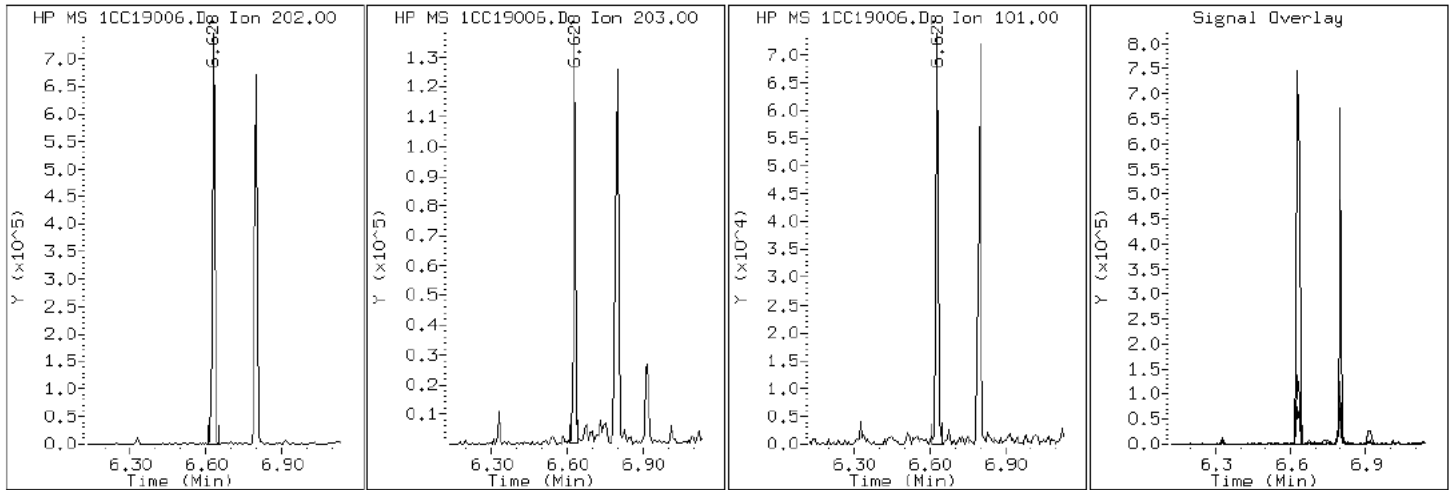
Client ID: CV0844A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-A-15-A

Operator: SCC

15 Fluoranthene



Data File: 1CC19006.D

Date: 19-MAR-2013 12:30

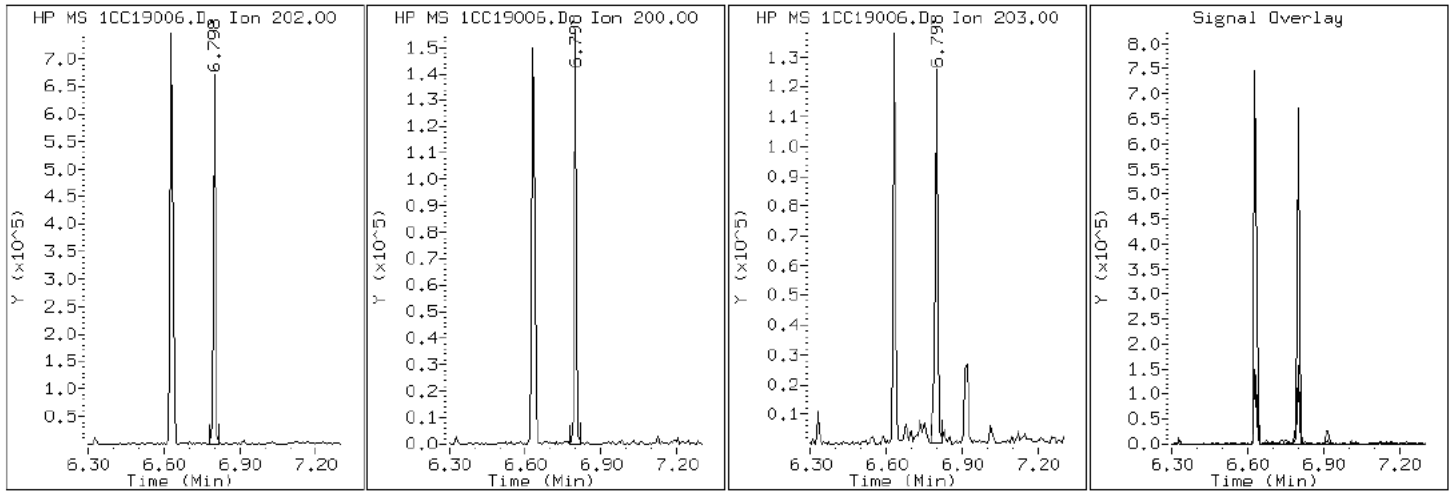
Client ID: CV0844A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-A-15-A

Operator: SCC

16 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0844B-CS Lab Sample ID: 680-88118-16
 Matrix: Solid Lab File ID: 1AC15030.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 09:40
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.20(g) Date Analyzed: 03/15/2013 20:05
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 21.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	98	J	200	25
120-12-7	Anthracene	89		42	21
56-55-3	Benzo[a]anthracene	770		40	20
50-32-8	Benzo[a]pyrene	720		52	26
205-99-2	Benzo[b]fluoranthene	1500		61	31
191-24-2	Benzo[g,h,i]perylene	690		100	22
207-08-9	Benzo[k]fluoranthene	430		40	18
218-01-9	Chrysene	830		45	23
53-70-3	Dibenz(a,h)anthracene	280		100	21
206-44-0	Fluoranthene	750		100	20
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	570		100	36
90-12-0	1-Methylnaphthalene	90	J	200	22
91-57-6	2-Methylnaphthalene	360		200	36
91-20-3	Naphthalene	53	J	200	22
85-01-8	Phenanthrene	330		40	20
129-00-0	Pyrene	840		100	19

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15030.D
 Lab Smp Id: 680-88118-A-16-A Client Smp ID: CV0844B-CS
 Inj Date : 15-MAR-2013 20:05
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-16-a
 Misc Info : 680-88118-A-16-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 30
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.200	Weight Extracted
M	21.486	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.314	2.303	(1.000)	372075	40.0000		
* 6 Acenaphthene-d10	164		3.334	3.324	(1.000)	304290	40.0000		
* 10 Phenanthrene-d10	188		4.258	4.248	(1.000)	492761	40.0000		
\$ 14 o-Terphenyl	230		4.531	4.526	(1.064)	12456	2.02717	679.4512	
* 18 Chrysene-d12	240		6.267	6.246	(1.000)	376014	40.0000	(H)	
* 23 Perylene-d12	264		7.362	7.330	(1.000)	413039	40.0000		
2 Naphthalene	128		2.319	2.314	(1.002)	1356	0.15774	52.8716(Q)	
3 2-Methylnaphthalene	141		2.725	2.715	(1.178)	979	1.06654	357.4762	
4 1-Methylnaphthalene	142		2.779	2.773	(1.201)	1325	0.26806	89.8453	
5 Acenaphthylene	152		3.249	3.238	(0.974)	1380	0.29217	97.9276(Q)	
11 Phenanthrene	178		4.274	4.264	(1.004)	12167	0.97423	326.5341	
12 Anthracene	178		4.306	4.296	(1.011)	3221	0.26599	89.1517	
13 Carbazole	167		4.467	4.456	(1.049)	1828	0.17223	57.7263	
15 Fluoranthene	202		5.124	5.113	(1.203)	27700	2.24379	752.0575	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.289	5.279	(0.844)	26921	2.49703	836.9383(H)
17 Benzo(a)anthracene	228	6.262	6.235	(0.999)	23359	2.31063	774.4611(H)
19 Chrysene	228	6.278	6.262	(1.002)	24138	2.47851	830.7305(H)
20 Benzo(b)fluoranthene	252	7.079	7.052	(0.962)	38470	4.58281	1536.0322(M)
21 Benzo(k)fluoranthene	252	7.090	7.074	(0.963)	14170	1.27184	426.2852(QM)
22 Benzo(a)pyrene	252	7.309	7.282	(0.993)	20727	2.13831	716.7028
24 Indeno(1,2,3-cd)pyrene	276	8.062	8.035	(1.095)	15002	1.71526	574.9089(M)
25 Dibenzo(a,h)anthracene	278	8.067	8.045	(1.096)	7326	0.84515	283.2708
26 Benzo(g,h,i)perylene	276	8.254	8.222	(1.121)	18213	2.06873	693.3839

QC Flag Legend

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

Data File: 1AC15030.D

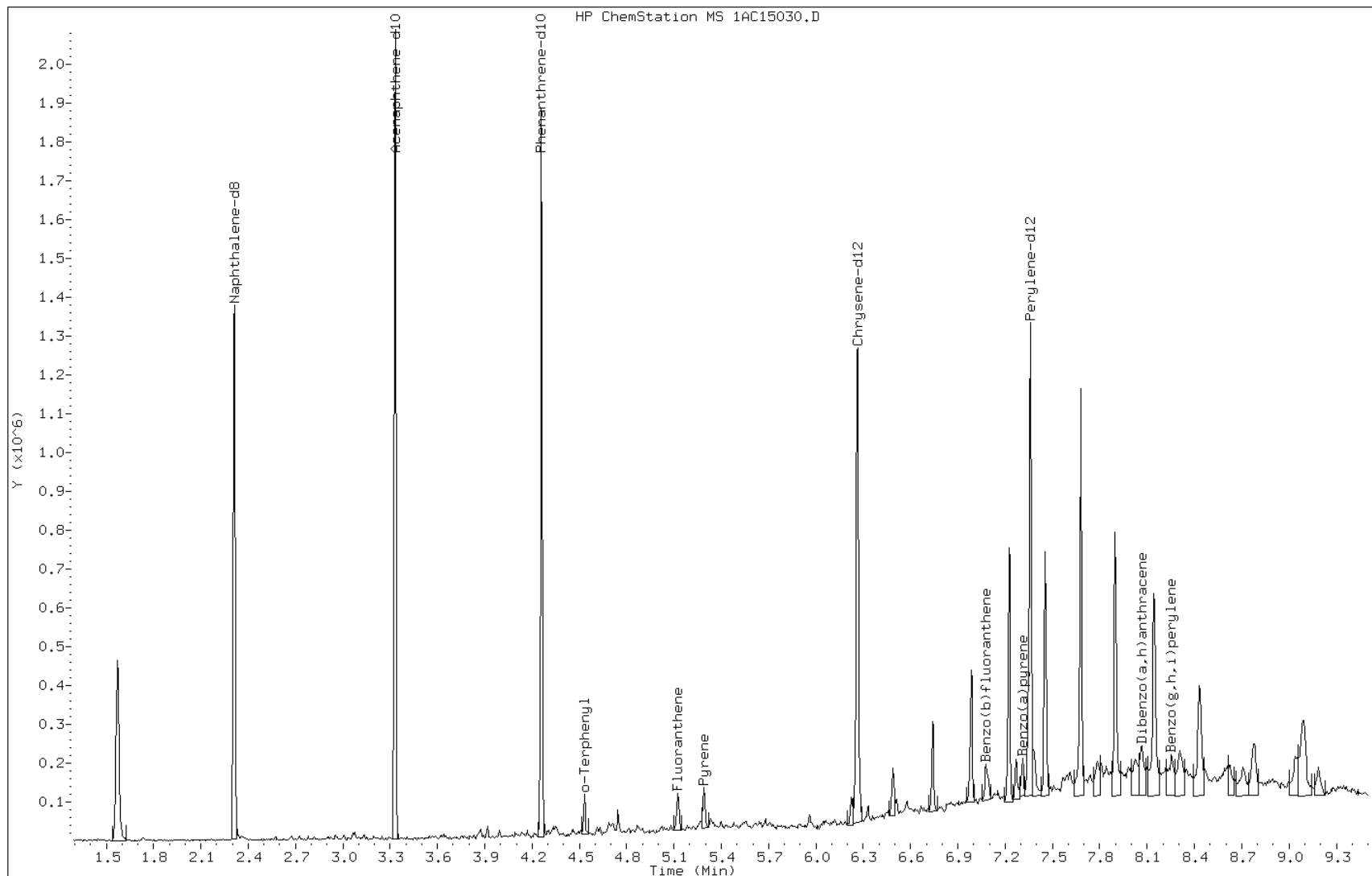
Date: 15-MAR-2013 20:05

Client ID: CV0844B-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-16-a

Operator: SCC



Data File: 1AC15030.D

Date: 15-MAR-2013 20:05

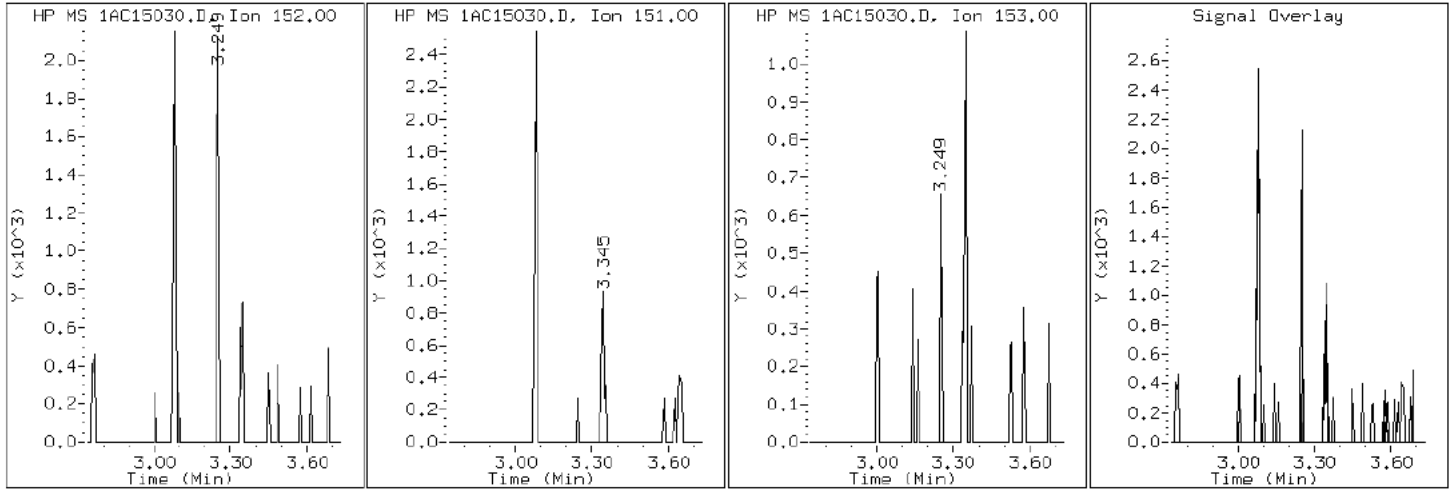
Client ID: CV0844B-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-16-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15030.D

Date: 15-MAR-2013 20:05

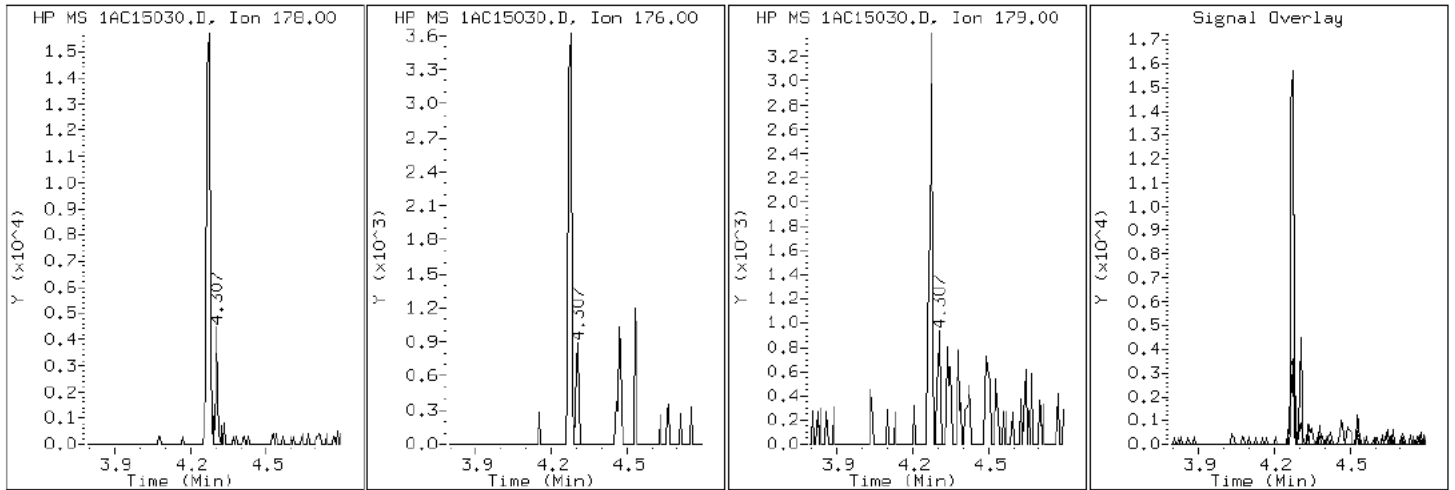
Client ID: CV0844B-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-16-a

Operator: SCC

12 Anthracene



Data File: 1AC15030.D

Date: 15-MAR-2013 20:05

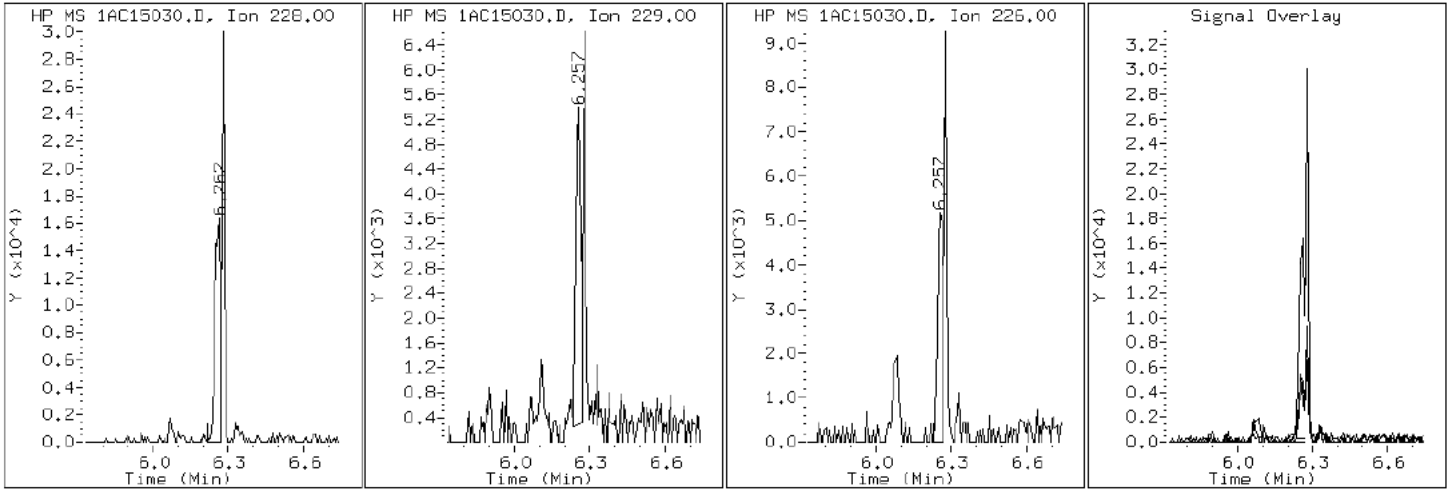
Client ID: CV0844B-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-16-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15030.D

Date: 15-MAR-2013 20:05

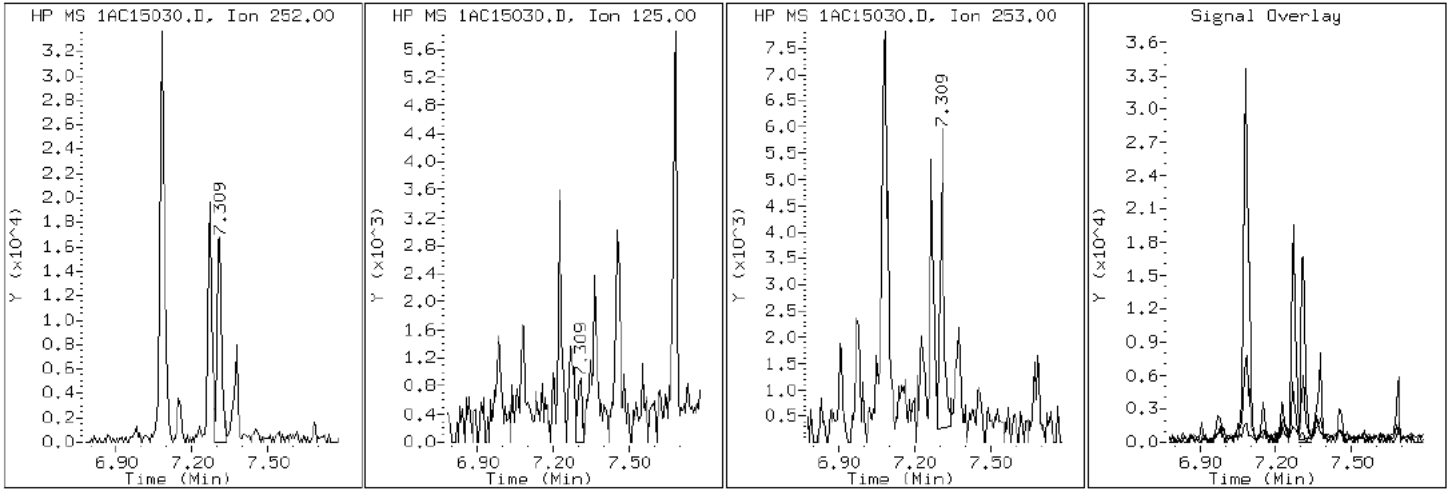
Client ID: CV0844B-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-16-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15030.D

Date: 15-MAR-2013 20:05

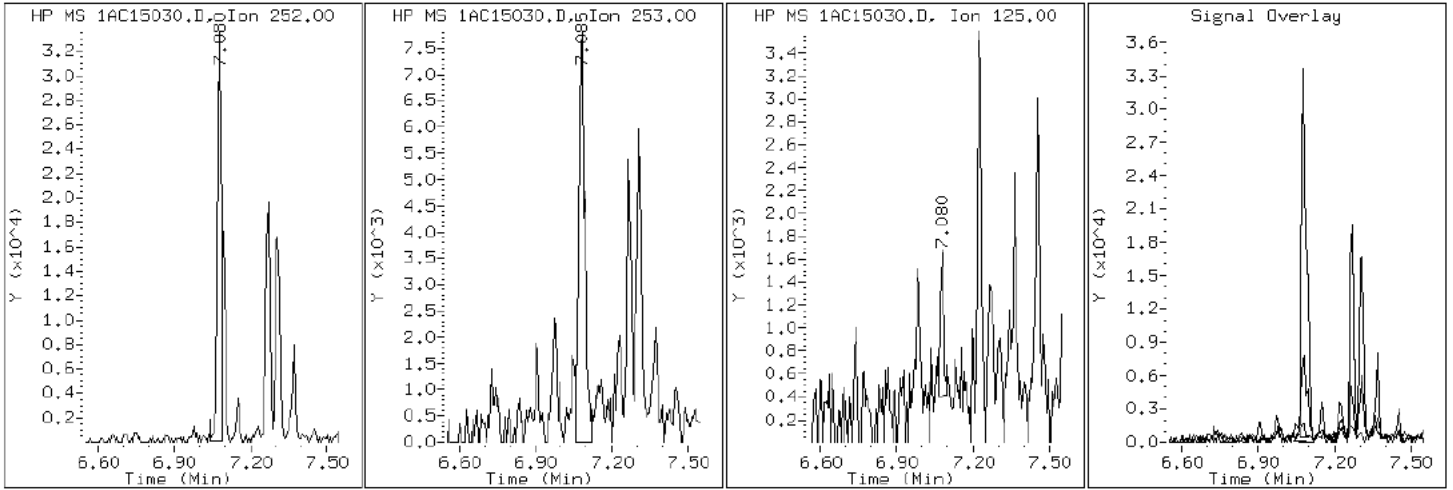
Client ID: CV0844B-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-16-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15030.D

Date: 15-MAR-2013 20:05

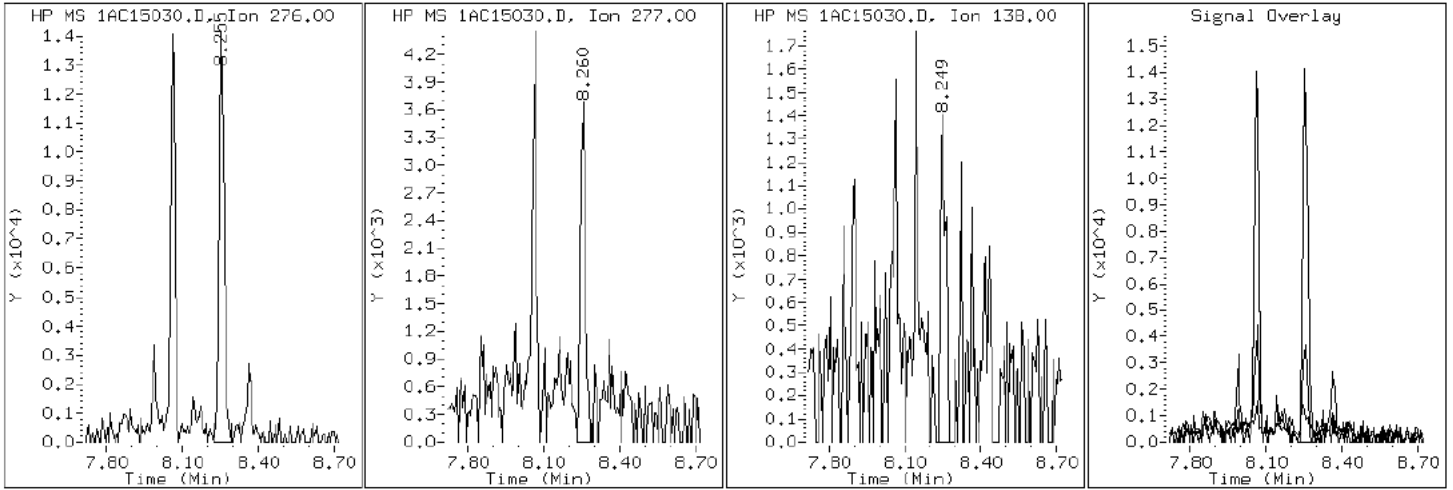
Client ID: CV0844B-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-16-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15030.D

Date: 15-MAR-2013 20:05

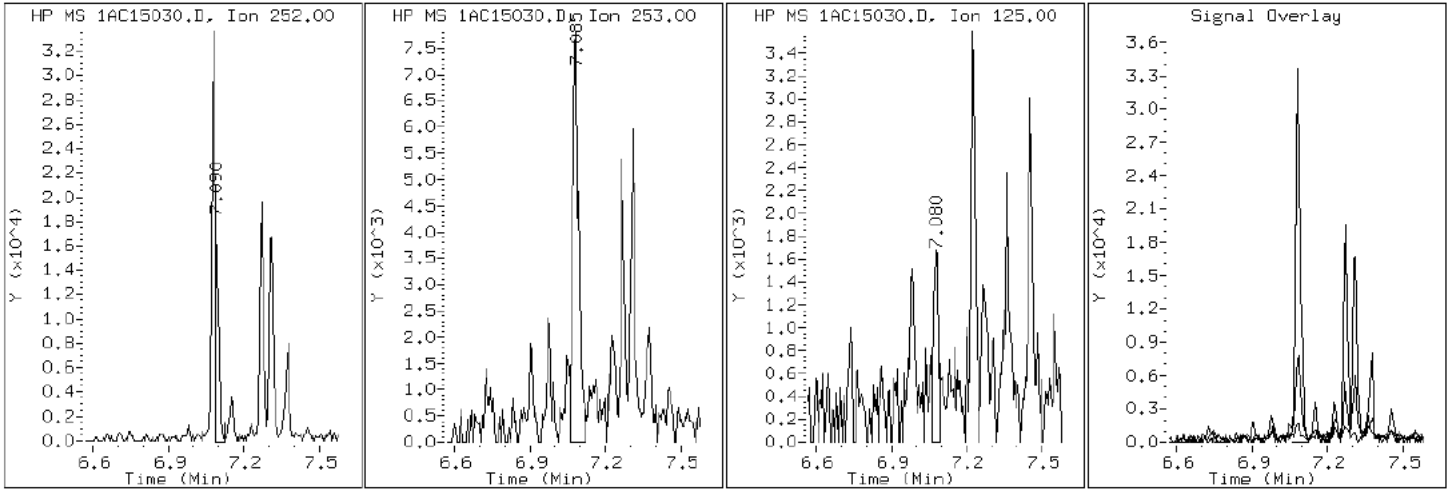
Client ID: CV0844B-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-16-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15030.D

Date: 15-MAR-2013 20:05

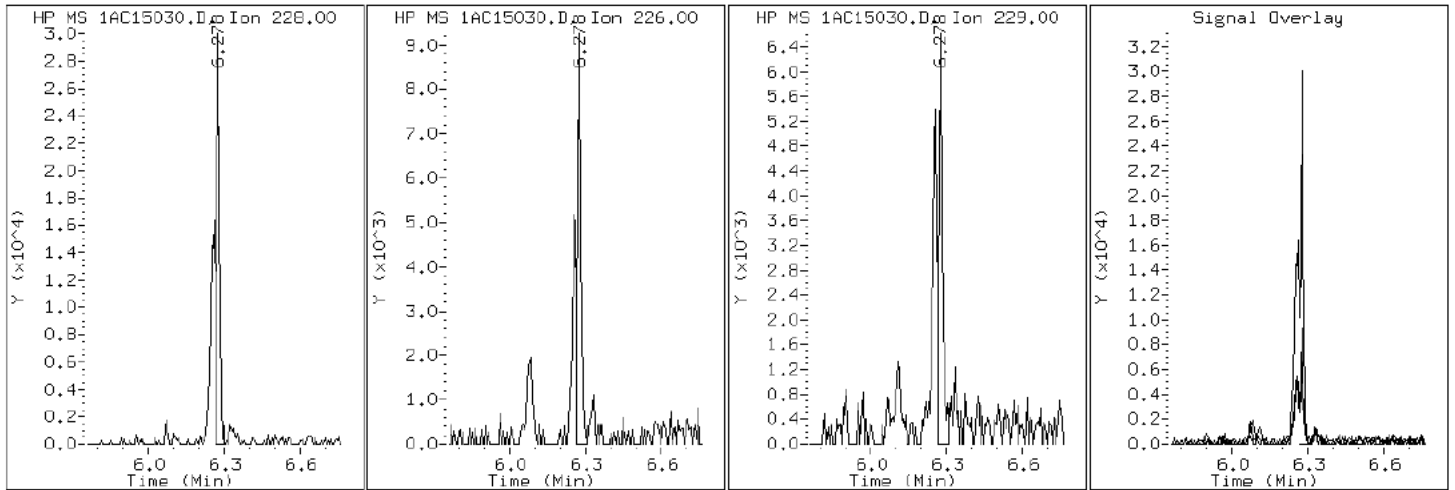
Client ID: CV0844B-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-16-a

Operator: SCC

19 Chrysene



Data File: 1AC15030.D

Date: 15-MAR-2013 20:05

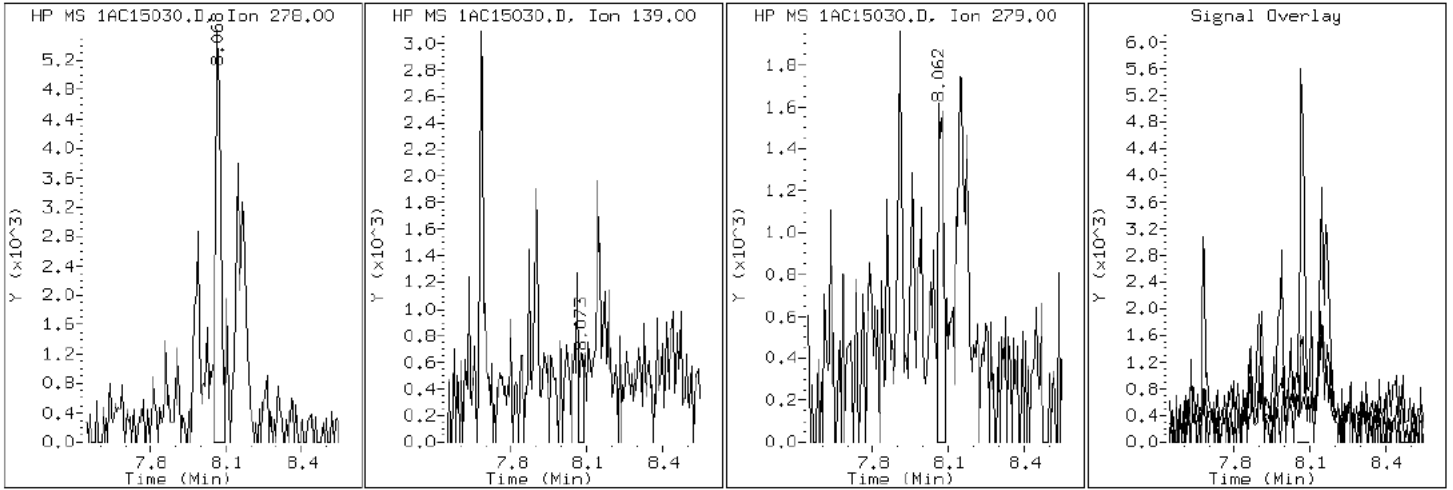
Client ID: CV0844B-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-16-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC15030.D

Date: 15-MAR-2013 20:05

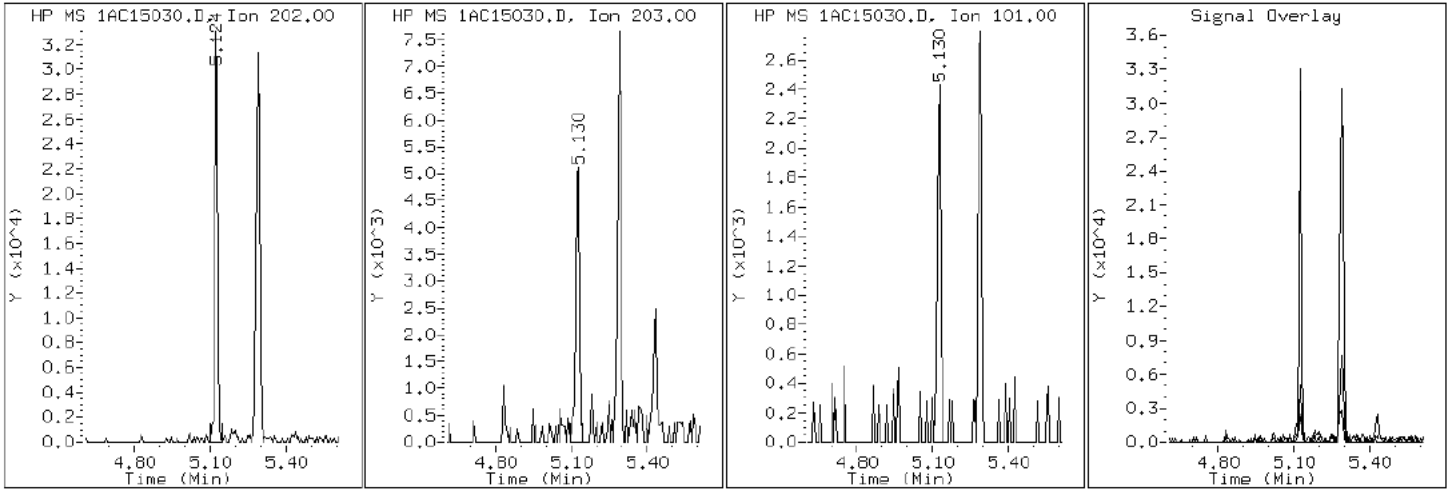
Client ID: CV0844B-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-16-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15030.D

Date: 15-MAR-2013 20:05

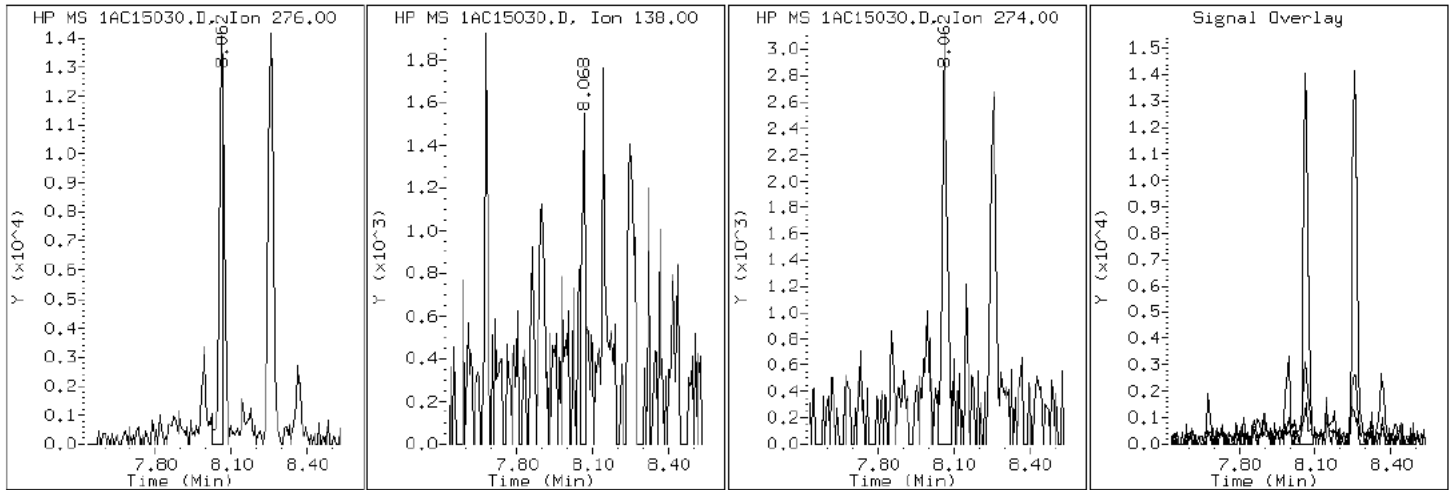
Client ID: CV0844B-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-16-a

Operator: SCC

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



Data File: 1AC15030.D

Date: 15-MAR-2013 20:05

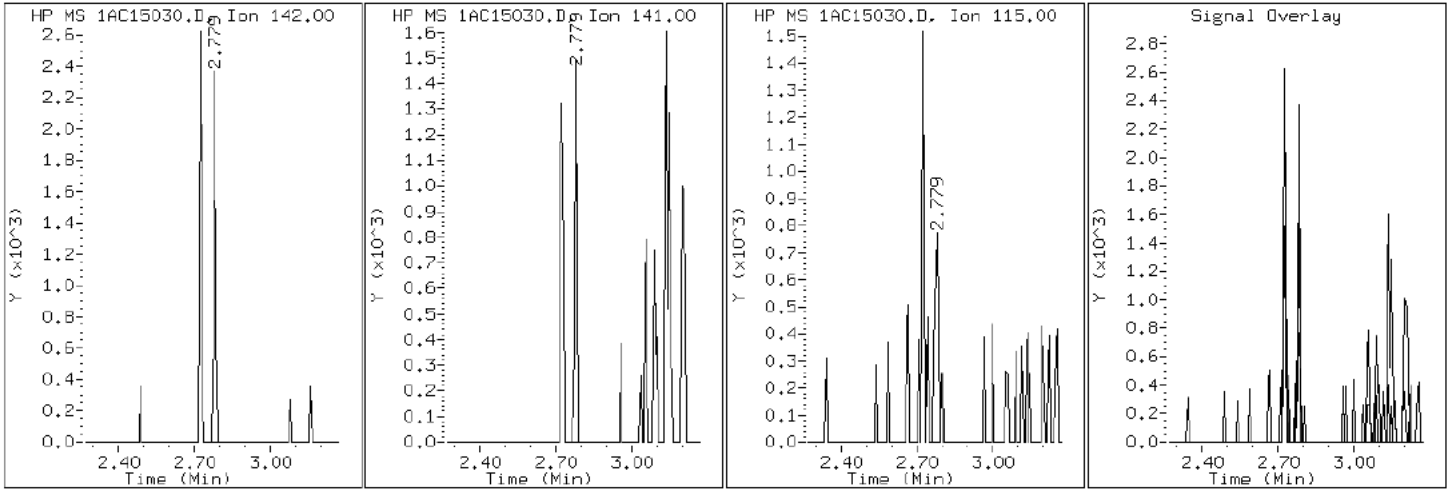
Client ID: CV0844B-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-16-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15030.D

Date: 15-MAR-2013 20:05

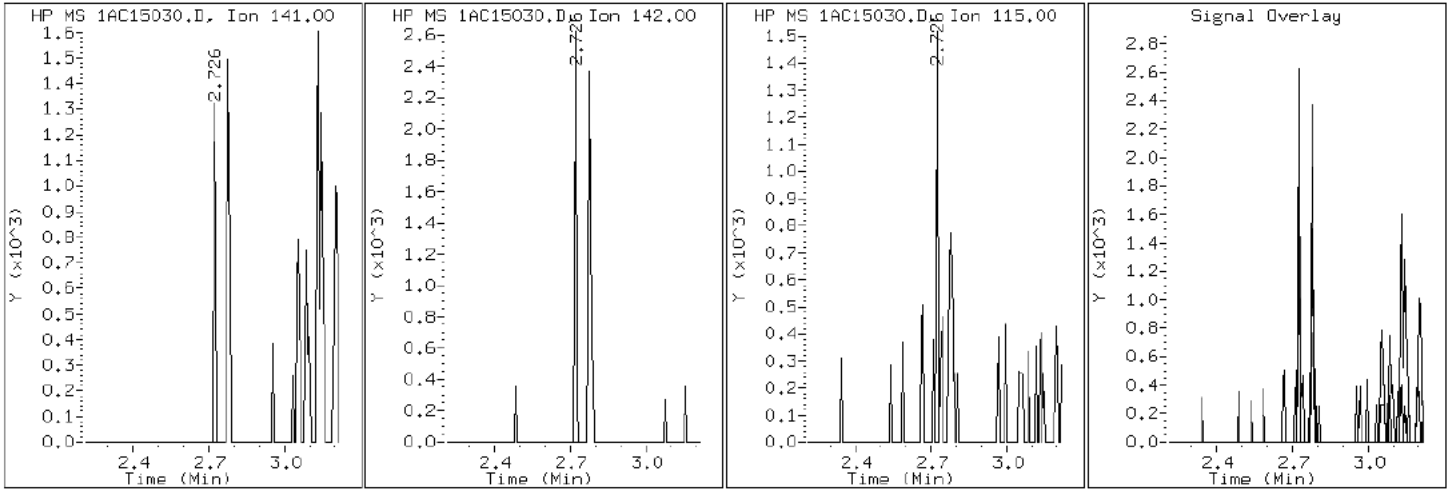
Client ID: CV0844B-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-16-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15030.D

Date: 15-MAR-2013 20:05

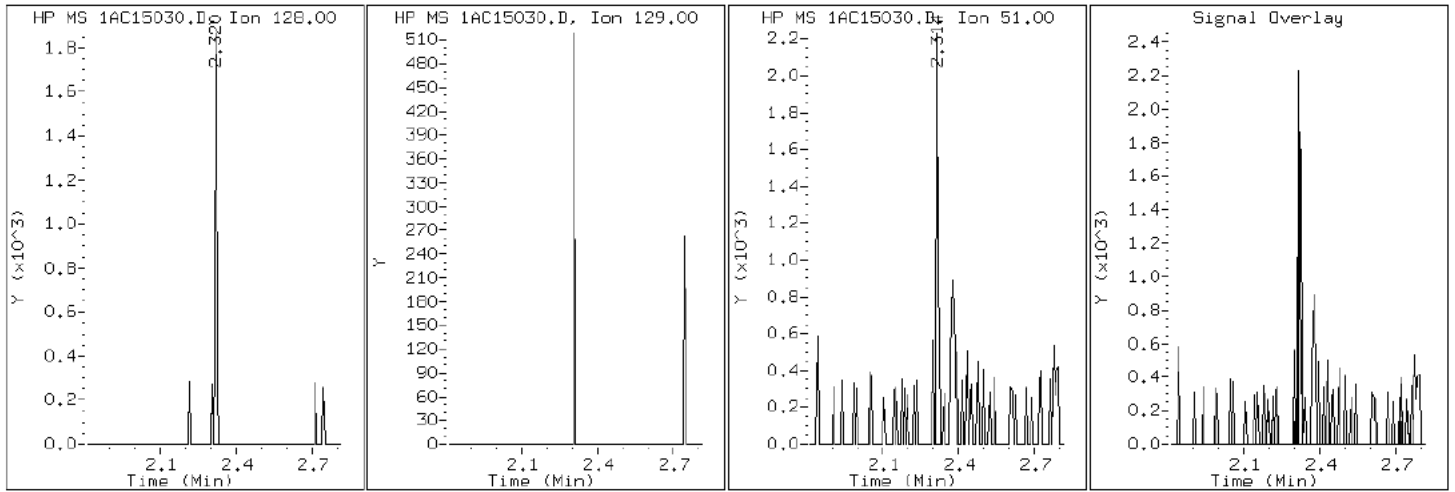
Client ID: CV0844B-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-16-a

Operator: SCC

2 Naphthalene



Data File: 1AC15030.D

Date: 15-MAR-2013 20:05

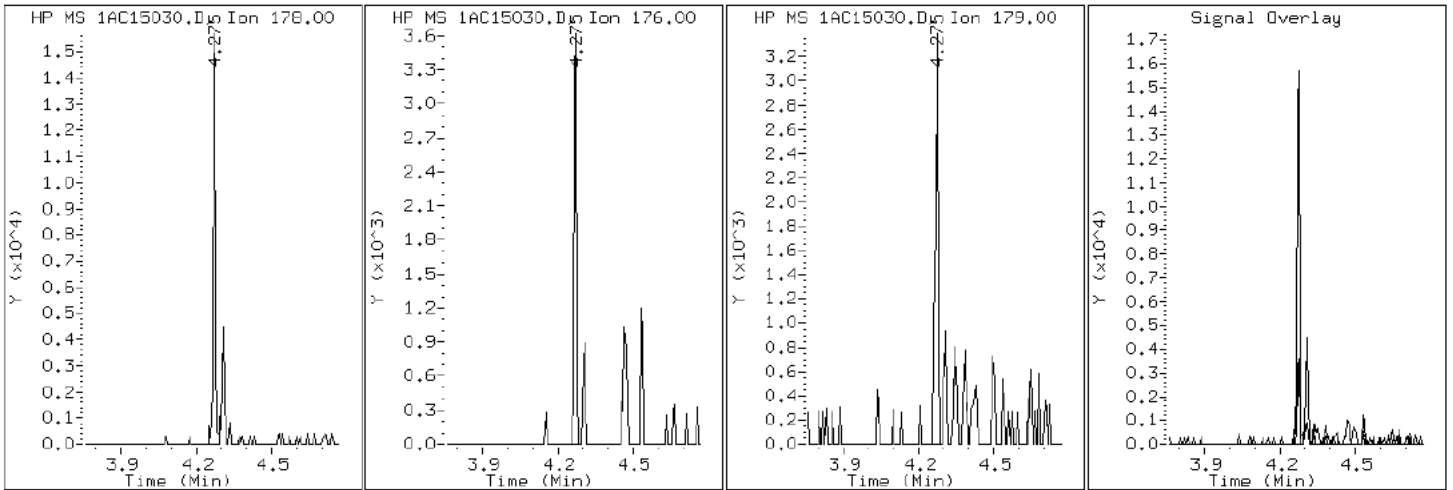
Client ID: CV0844B-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-16-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15030.D

Date: 15-MAR-2013 20:05

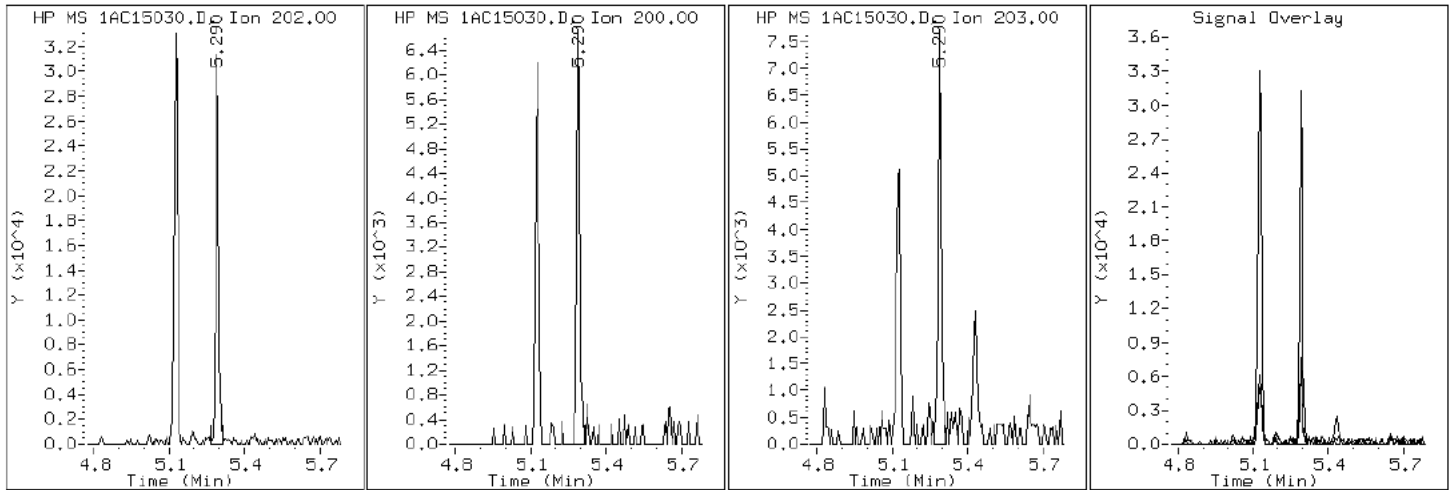
Client ID: CV0844B-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-16-a

Operator: SCC

16 Pyrene

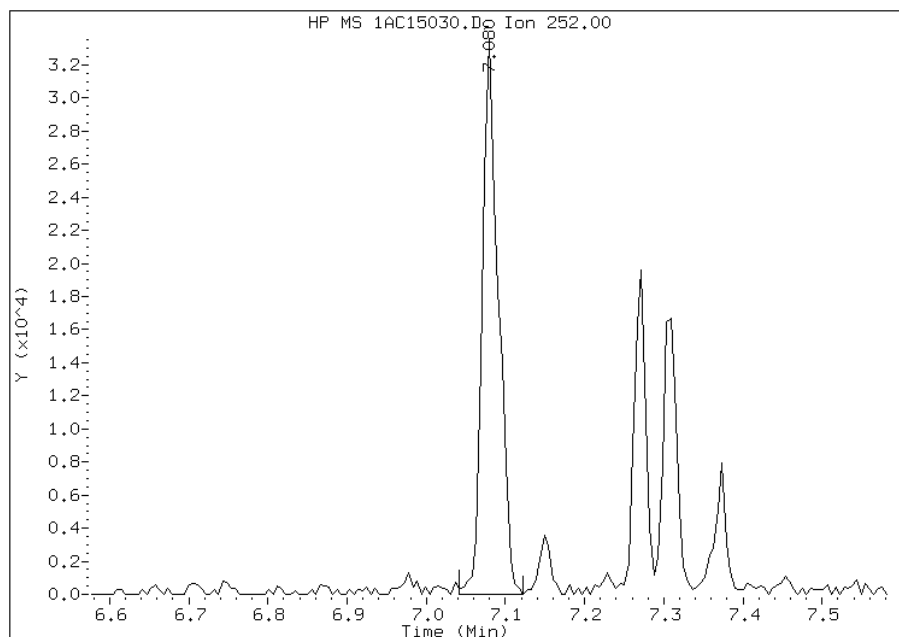


Manual Integration Report

Data File: 1AC15030.D
Inj. Date and Time: 15-MAR-2013 20:05
Instrument ID: BSMA5973.i
Client ID: CV0844B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

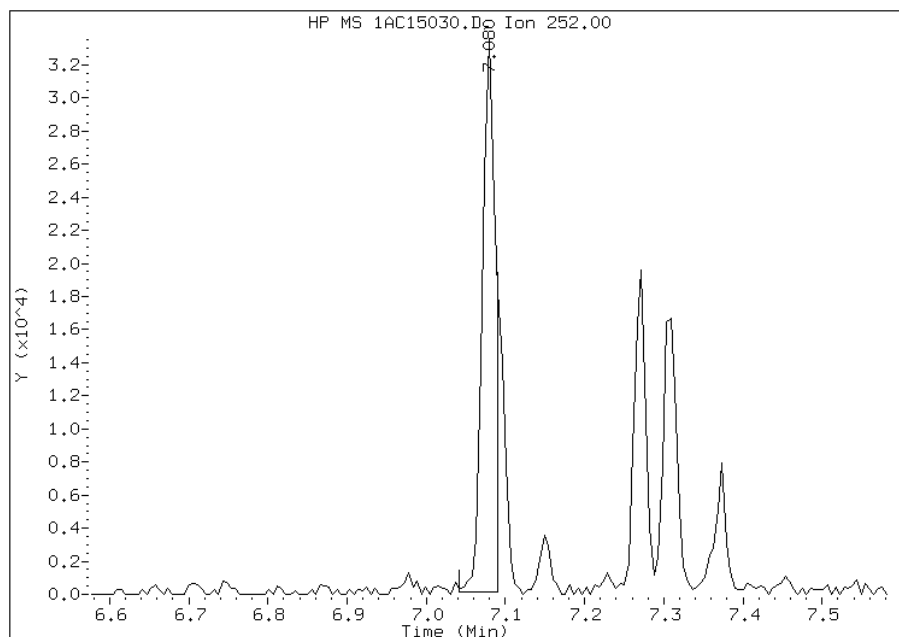
Processing Integration Results

RT: 7.08
Response: 46801
Amount: 5
Conc: 1781



Manual Integration Results

RT: 7.08
Response: 38470
Amount: 5
Conc: 1536



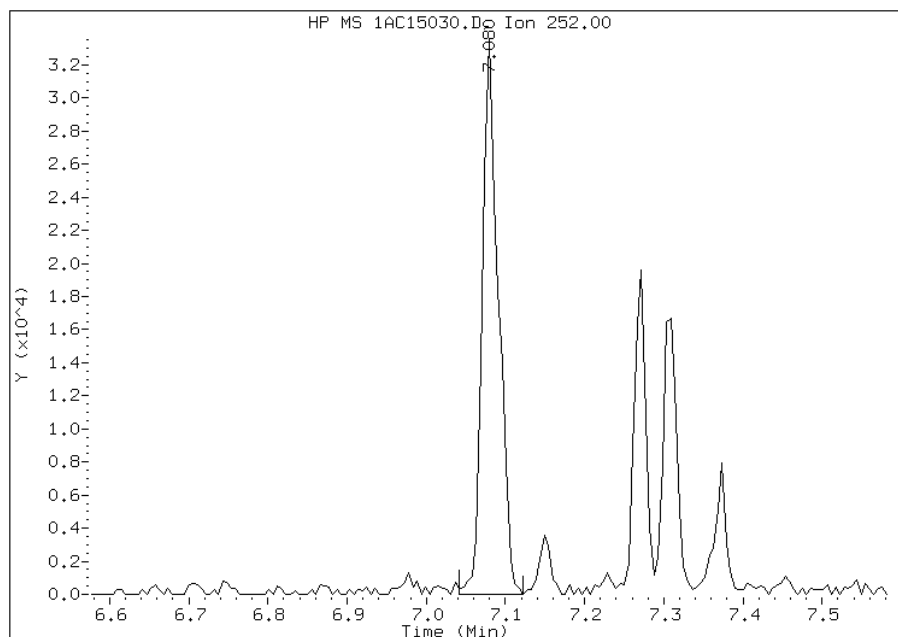
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:21
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15030.D
Inj. Date and Time: 15-MAR-2013 20:05
Instrument ID: BSMA5973.i
Client ID: CV0844B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

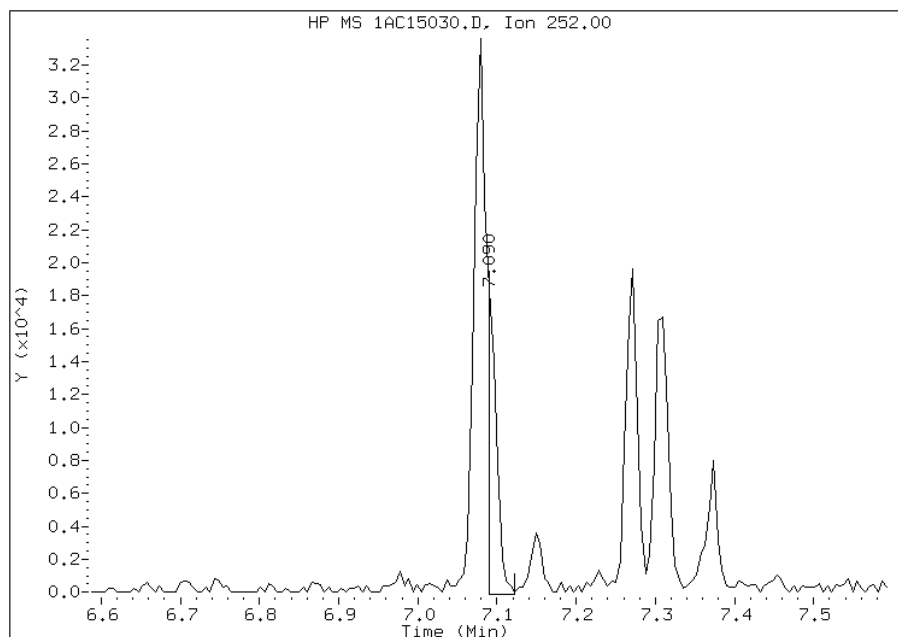
Processing Integration Results

RT: 7.08
Response: 46801
Amount: 4
Conc: 1408



Manual Integration Results

RT: 7.09
Response: 14170
Amount: 1
Conc: 426



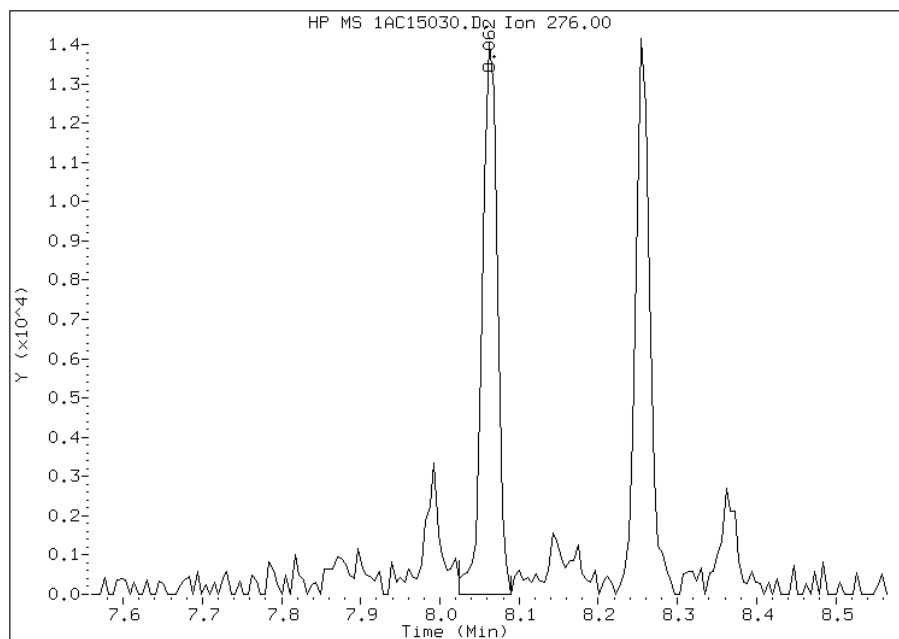
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15030.D
Inj. Date and Time: 15-MAR-2013 20:05
Instrument ID: BSMA5973.i
Client ID: CV0844B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

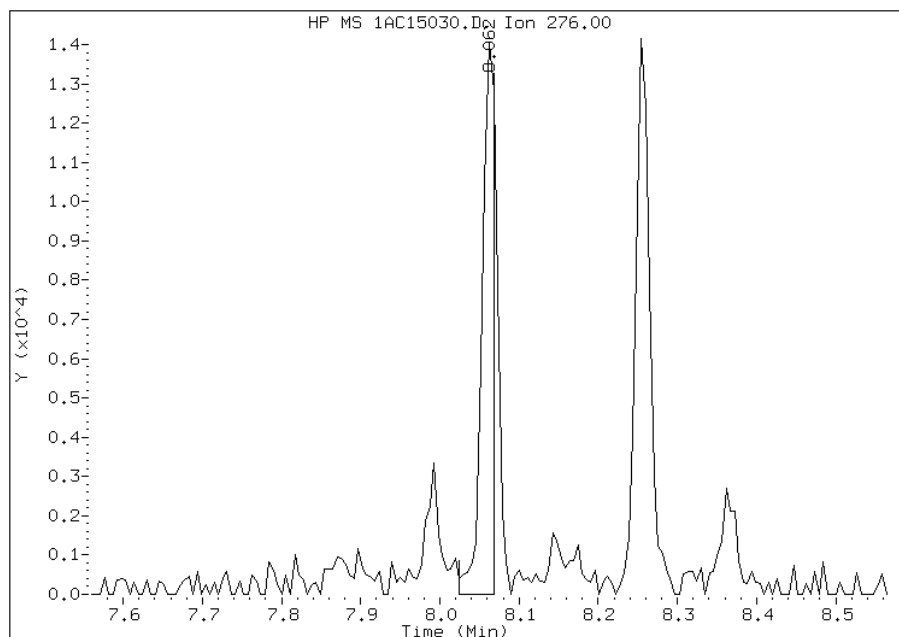
Processing Integration Results

RT: 8.06
Response: 18439
Amount: 2
Conc: 707



Manual Integration Results

RT: 8.06
Response: 15002
Amount: 2
Conc: 575



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0846A-CS Lab Sample ID: 680-88118-17
 Matrix: Solid Lab File ID: 1AC15031.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 09:05
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.26(g) Date Analyzed: 03/15/2013 20:21
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 15.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	52	J	120	23
208-96-8	Acenaphthylene	33	J	47	5.8
120-12-7	Anthracene	110		9.8	4.9
56-55-3	Benzo[a]anthracene	320		9.4	4.6
50-32-8	Benzo[a]pyrene	190		12	6.1
205-99-2	Benzo[b]fluoranthene	350		14	7.1
191-24-2	Benzo[g,h,i]perylene	150		23	5.1
207-08-9	Benzo[k]fluoranthene	180		9.4	4.2
218-01-9	Chrysene	340		11	5.3
53-70-3	Dibenz(a,h)anthracene	52		23	4.8
206-44-0	Fluoranthene	600		23	4.7
86-73-7	Fluorene	49		23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	110		23	8.3
90-12-0	1-Methylnaphthalene	100		47	5.1
91-57-6	2-Methylnaphthalene	180		47	8.3
91-20-3	Naphthalene	82		47	5.1
85-01-8	Phenanthrene	480		9.4	4.6
129-00-0	Pyrene	600		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15031.D
 Lab Smp Id: 680-88118-A-17-A Client Smp ID: CV0846A-CS
 Inj Date : 15-MAR-2013 20:21
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-17-a
 Misc Info : 680-88118-A-17-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 31
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.260	Weight Extracted
M	15.904	% 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	CONCENTRATIONS				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136	2.310	2.303	(1.000)	426751	40.0000	
* 6 Acenaphthene-d10	164	3.335	3.324	(1.000)	347491	40.0000	
* 10 Phenanthrene-d10	188	4.265	4.248	(1.000)	561797	40.0000	
\$ 14 o-Terphenyl	230	4.532	4.526	(1.063)	58565	7.92022	617.1745
* 18 Chrysene-d12	240	6.268	6.246	(1.000)	398671	40.0000	
* 23 Perylene-d12	264	7.363	7.330	(1.000)	417697	40.0000	
2 Naphthalene	128	2.320	2.314	(1.005)	10387	1.05351	82.0939
3 2-Methylnaphthalene	141	2.721	2.715	(1.178)	8806	2.33679	182.0920
4 1-Methylnaphthalene	142	2.780	2.773	(1.204)	7557	1.33296	103.8692
5 Acenaphthylene	152	3.250	3.238	(0.974)	3214	0.42534	33.1438
7 Acenaphthene	154	3.351	3.345	(1.005)	1804	0.66919	52.1460(Q)
9 Fluorene	166	3.656	3.649	(1.096)	3636	0.63338	49.3556
11 Phenanthrene	178	4.276	4.264	(1.002)	87894	6.17294	481.0199
12 Anthracene	178	4.308	4.296	(1.010)	19055	1.38018	107.5491

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.468	4.456 (1.048)		5988	0.49484	38.5601
15 Fluoranthene	202	5.130	5.113 (1.203)		109158	7.75559	604.3460
16 Pyrene	202	5.291	5.279 (0.844)		88649	7.75526	604.3205
17 Benzo(a)anthracene	228	6.263	6.235 (0.999)		45939	4.14203	322.7633
19 Chrysene	228	6.279	6.262 (1.002)		45336	4.39059	342.1317
20 Benzo(b)fluoranthene	252	7.080	7.052 (0.962)		37479	4.45901	347.4635(M)
21 Benzo(k)fluoranthene	252	7.085	7.074 (0.962)		25489	2.26227	176.2847(M)
22 Benzo(a)pyrene	252	7.310	7.282 (0.993)		24517	2.50110	194.8954
24 Indeno(1,2,3-cd)pyrene	276	8.063	8.035 (1.095)		12304	1.39110	108.3996(M)
25 Dibenzo(a,h)anthracene	278	8.068	8.045 (1.096)		5874	0.67008	52.2156
26 Benzo(g,h,i)perylene	276	8.261	8.222 (1.122)		17272	1.93997	151.1703

QC Flag Legend

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

Data File: 1AC15031.D

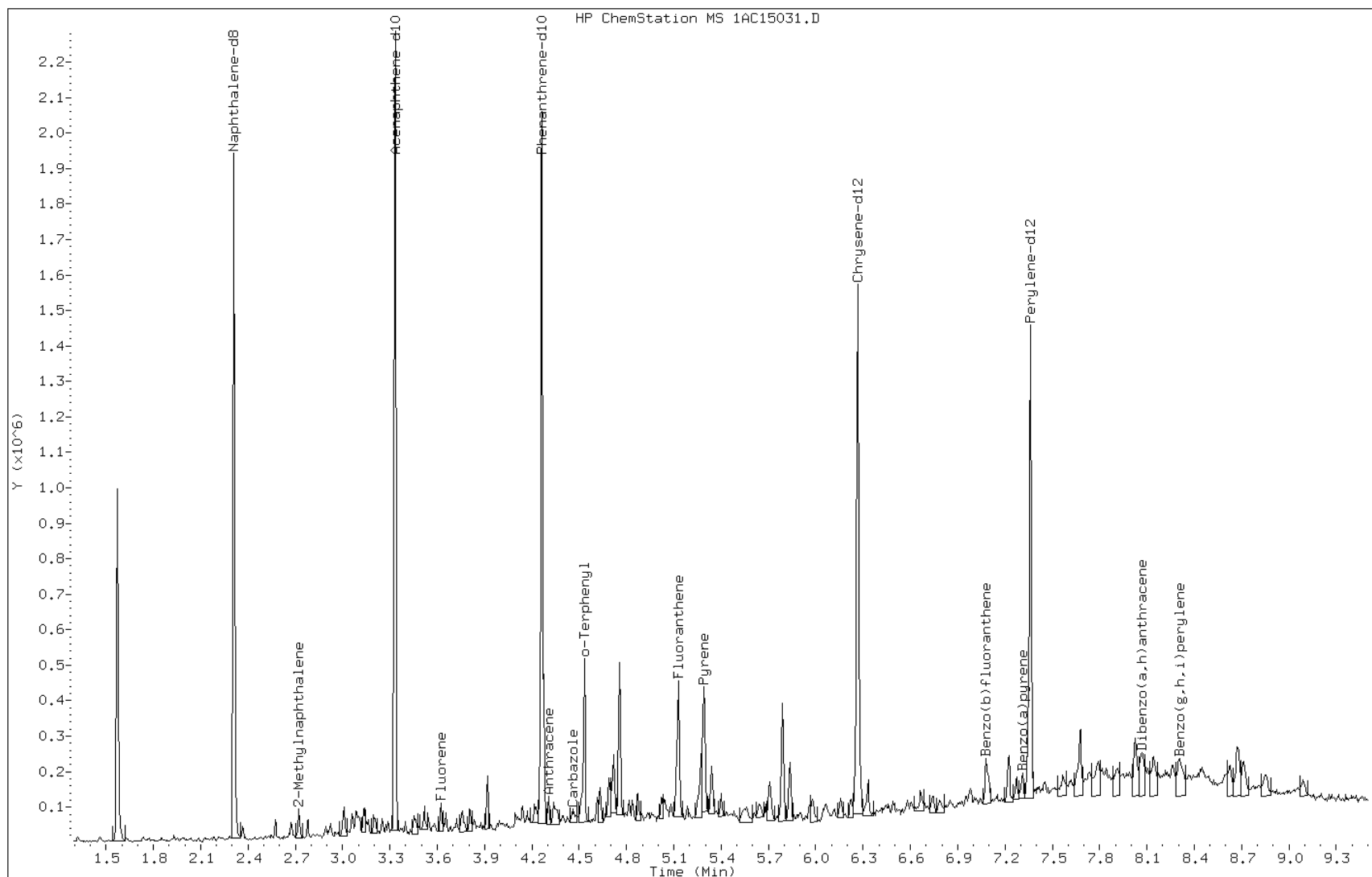
Date: 15-MAR-2013 20:21

Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

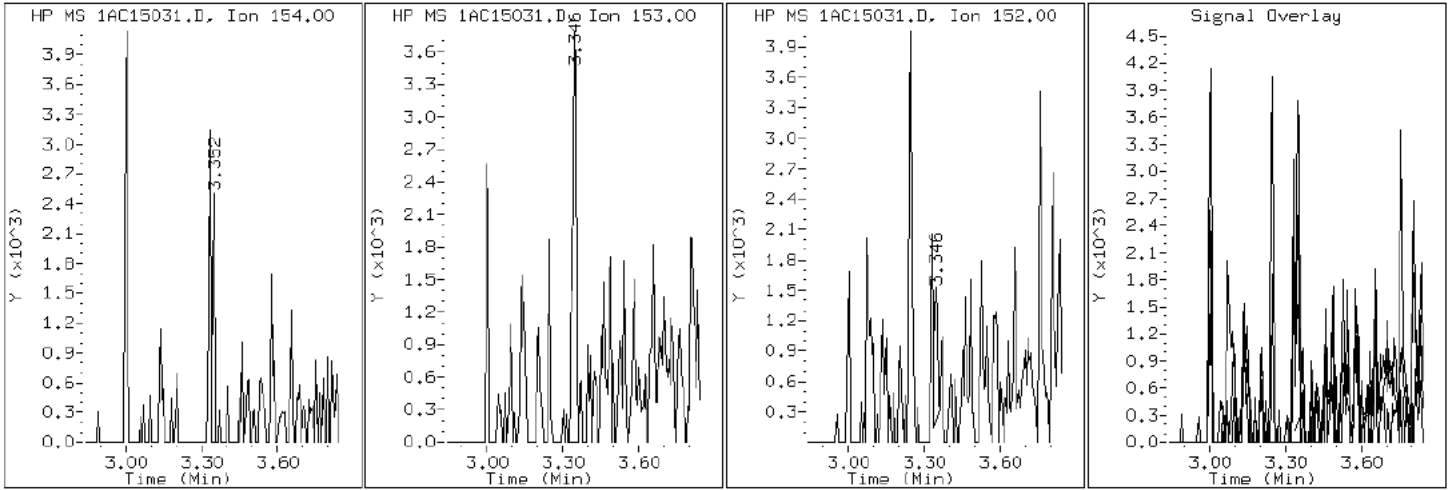
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

7 Acenaphthene



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

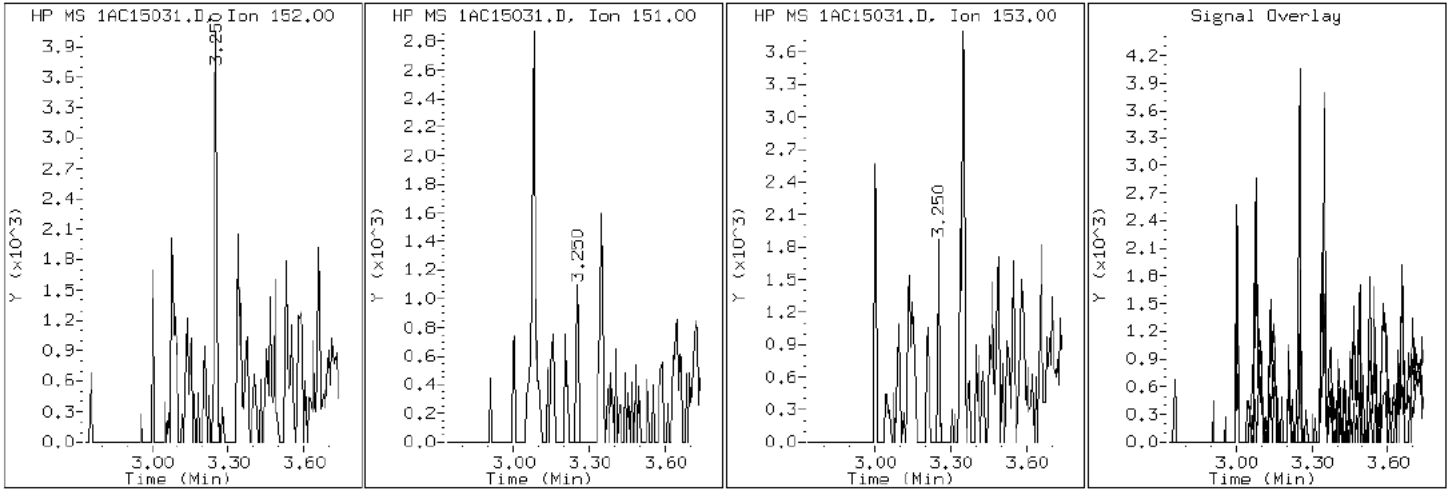
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

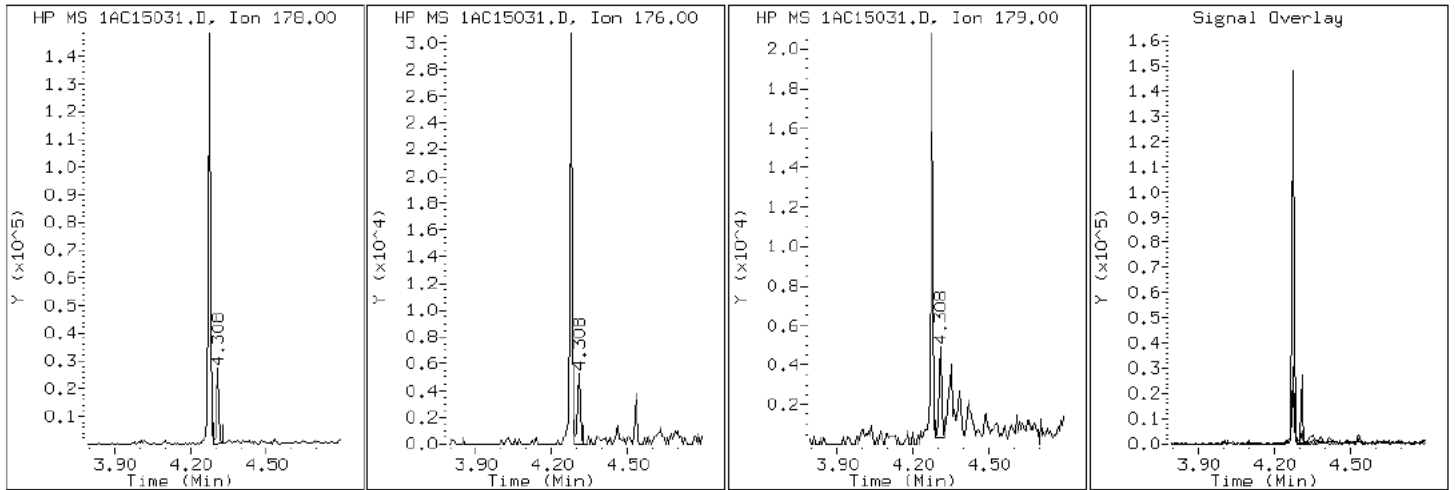
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

12 Anthracene



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

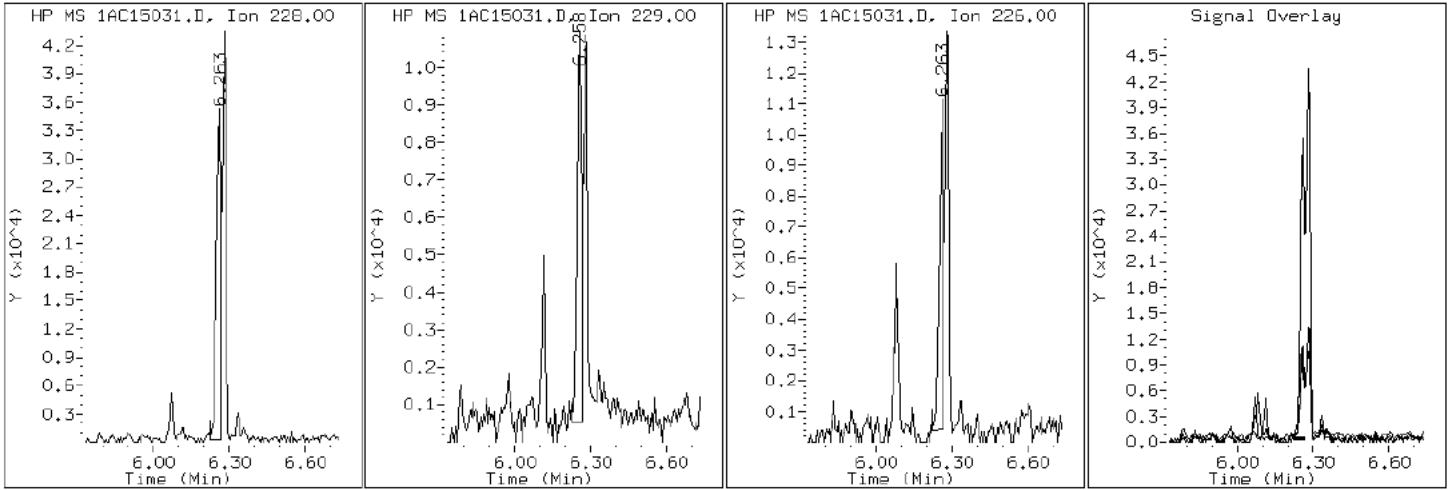
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

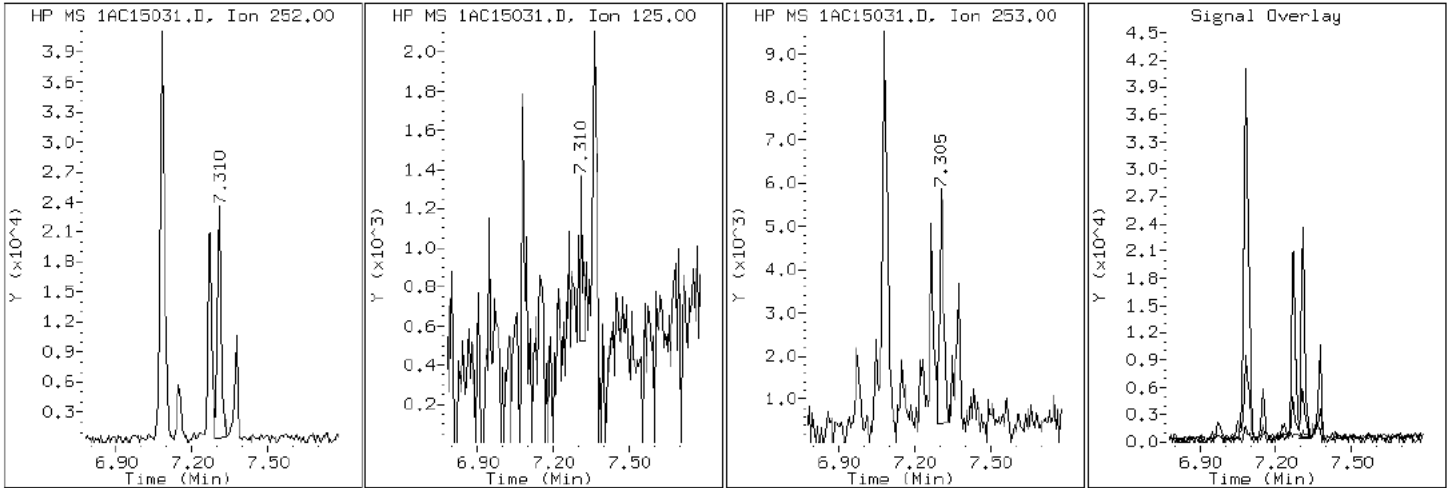
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

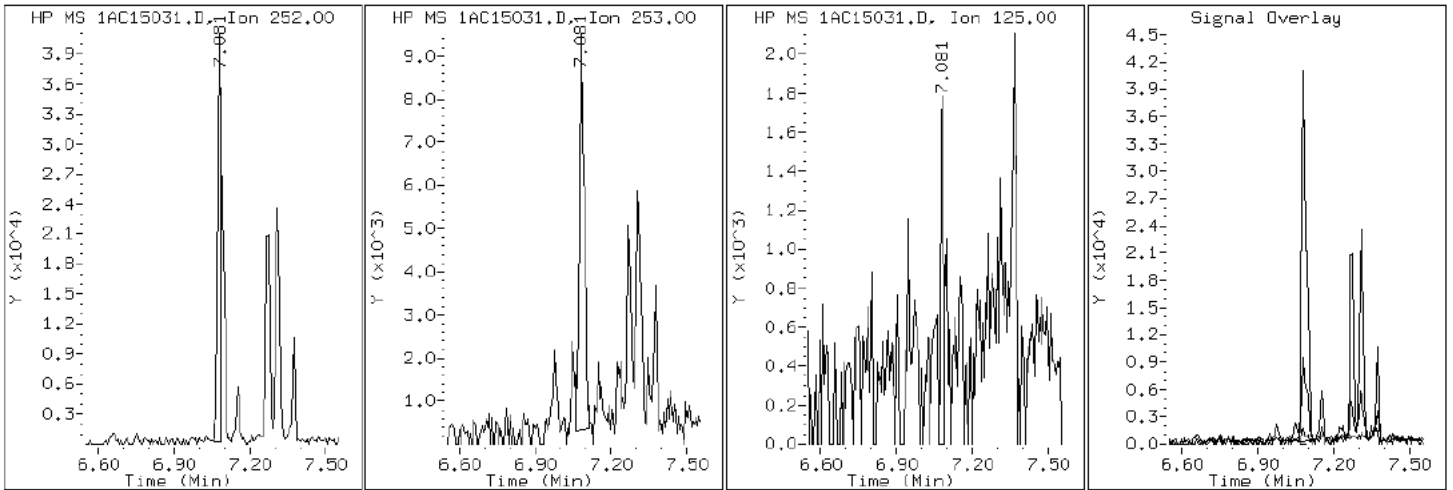
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

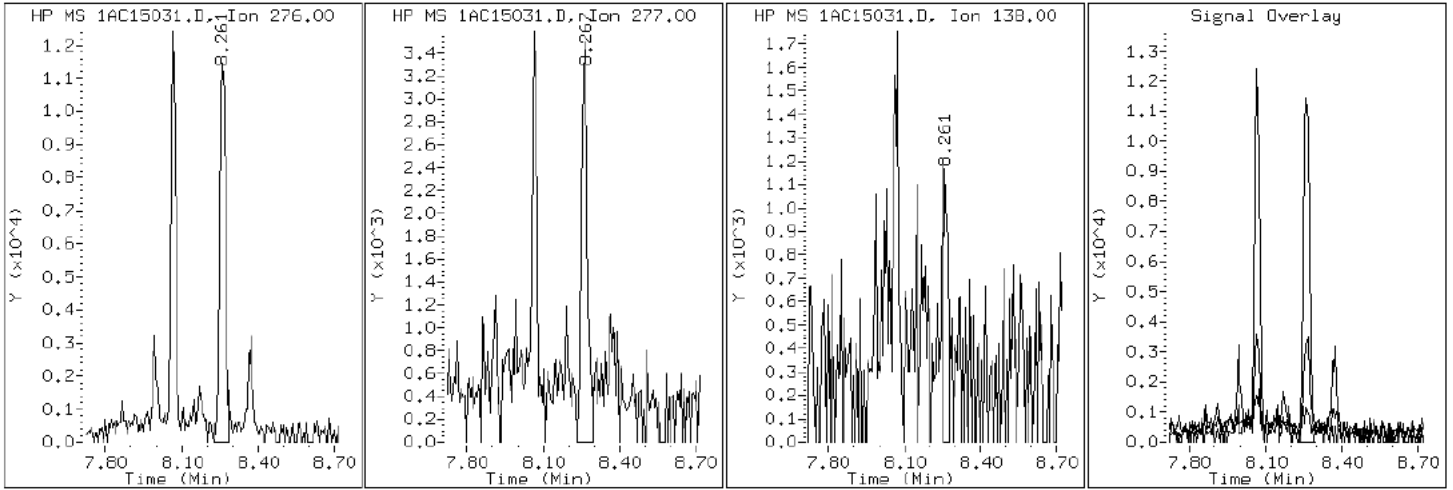
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

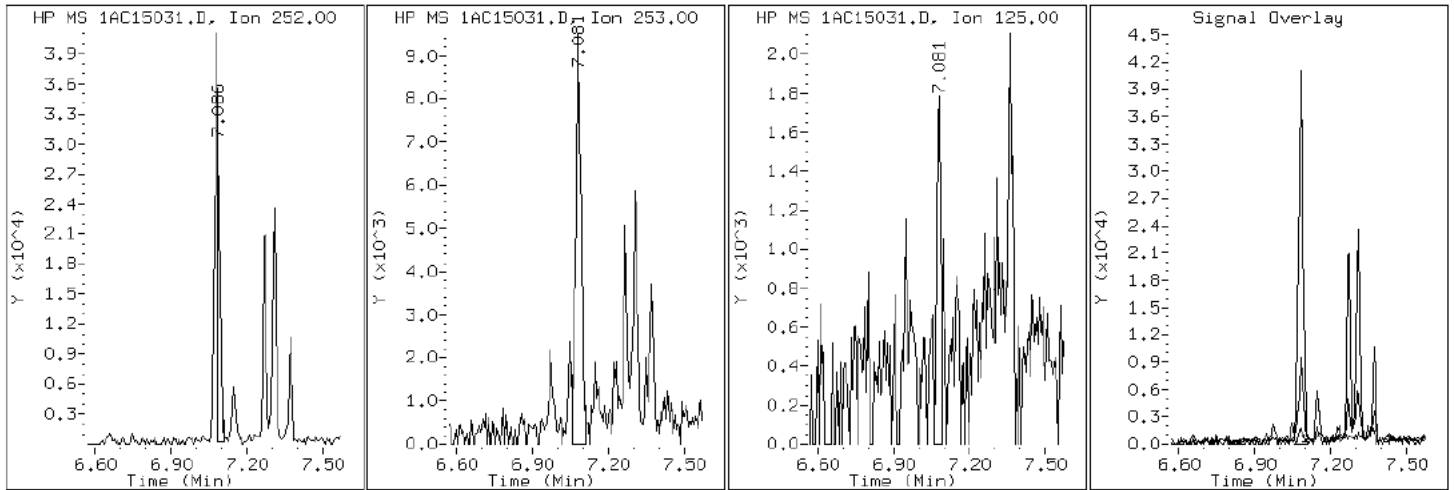
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

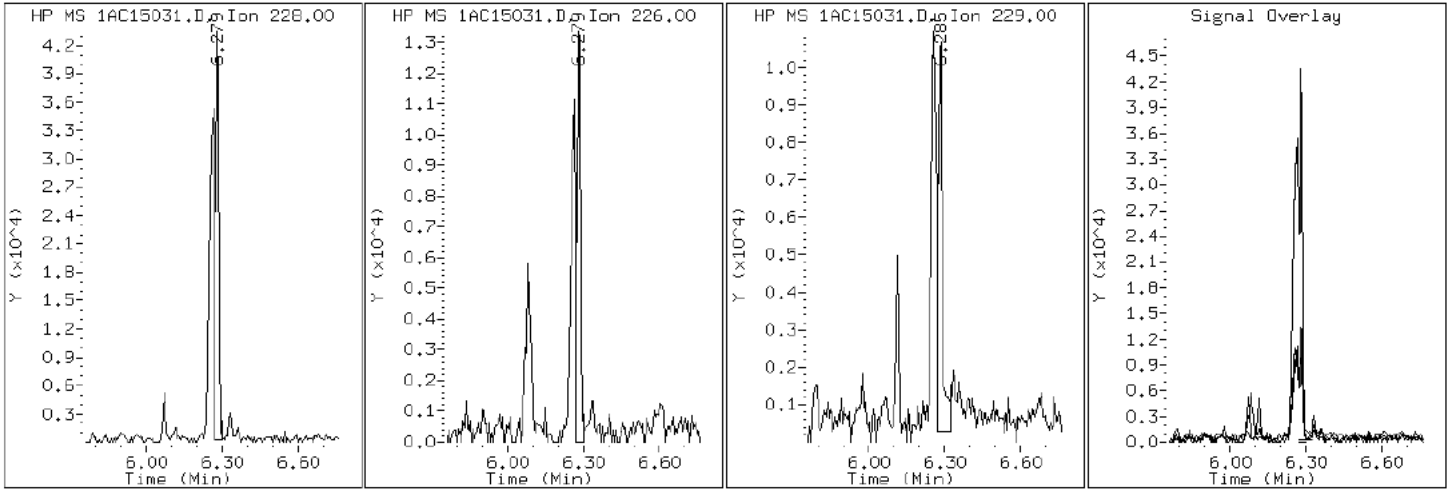
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

19 Chrysene



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

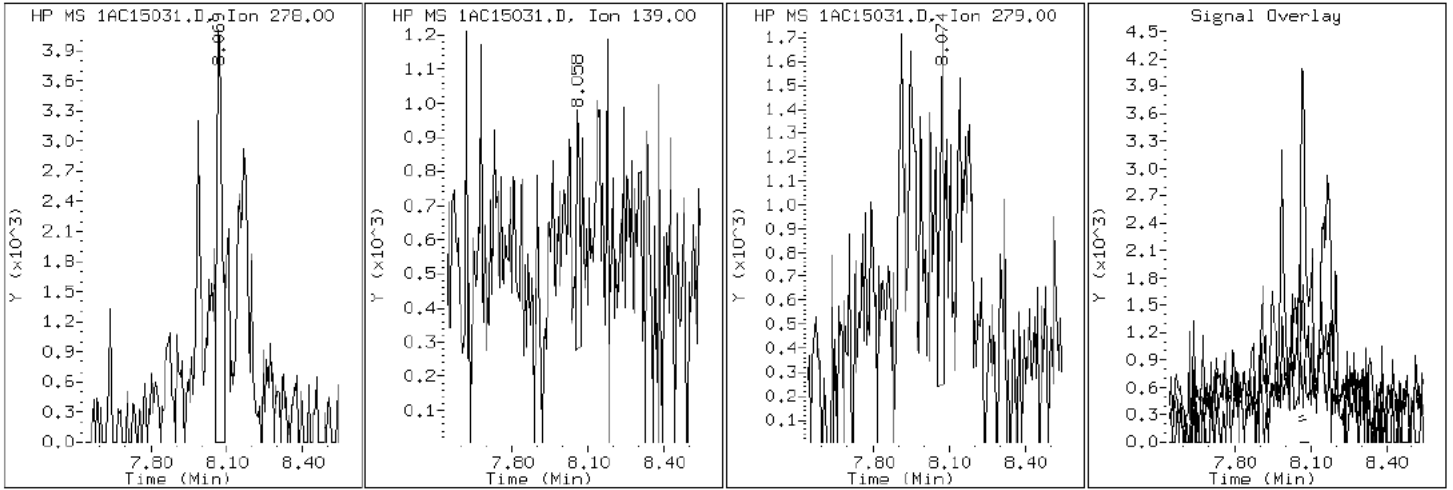
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

25 Dibenzo (a,h)anthracene



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

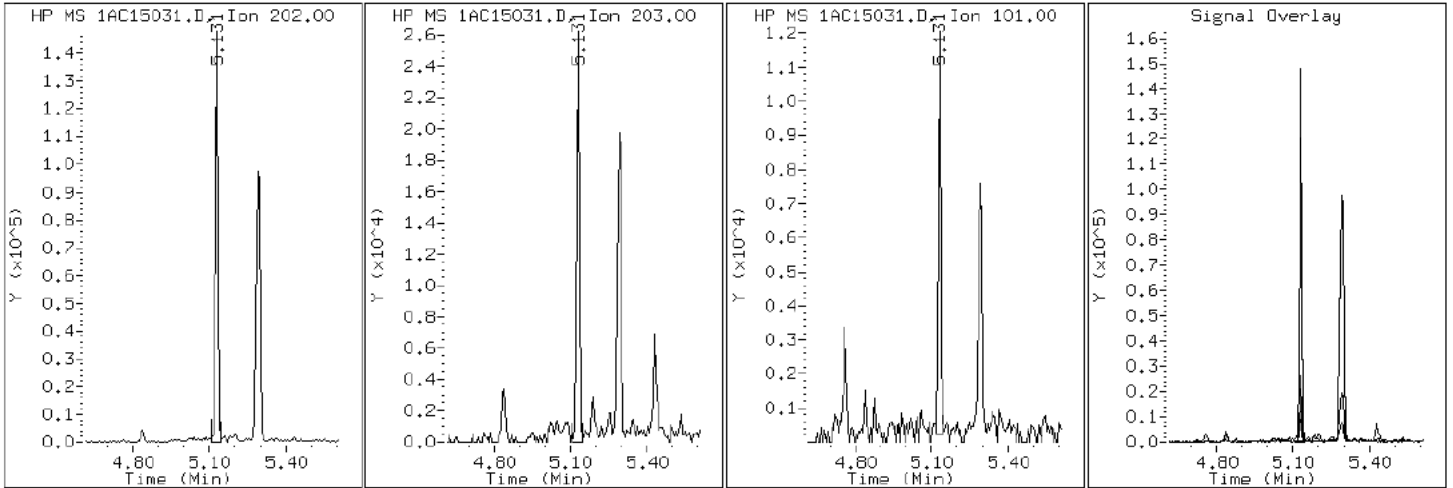
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

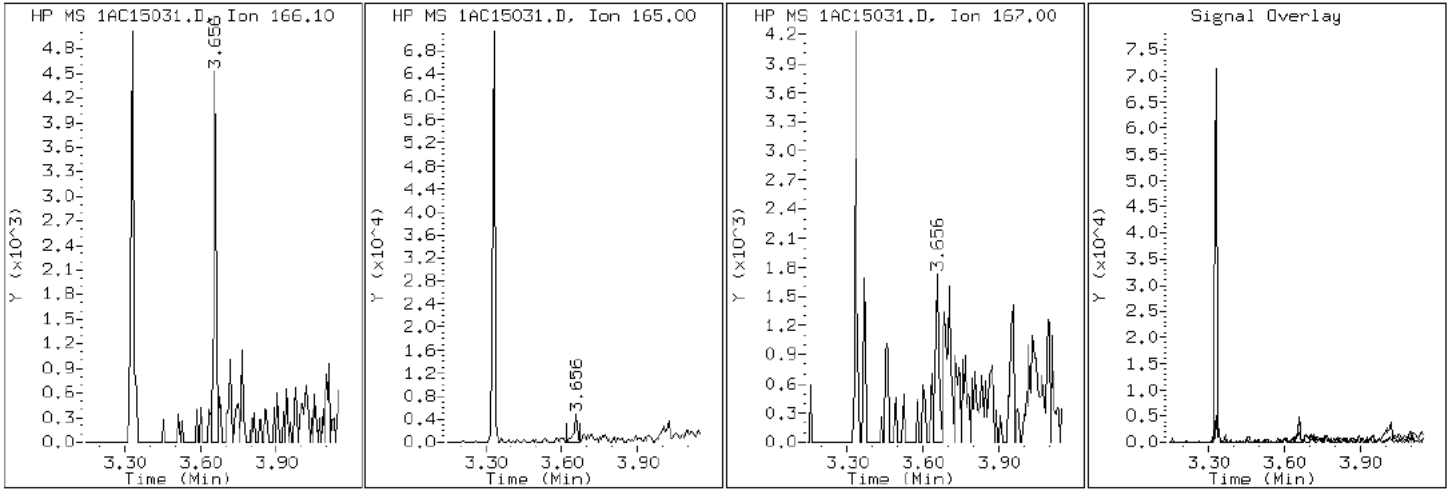
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

9 Fluorene



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

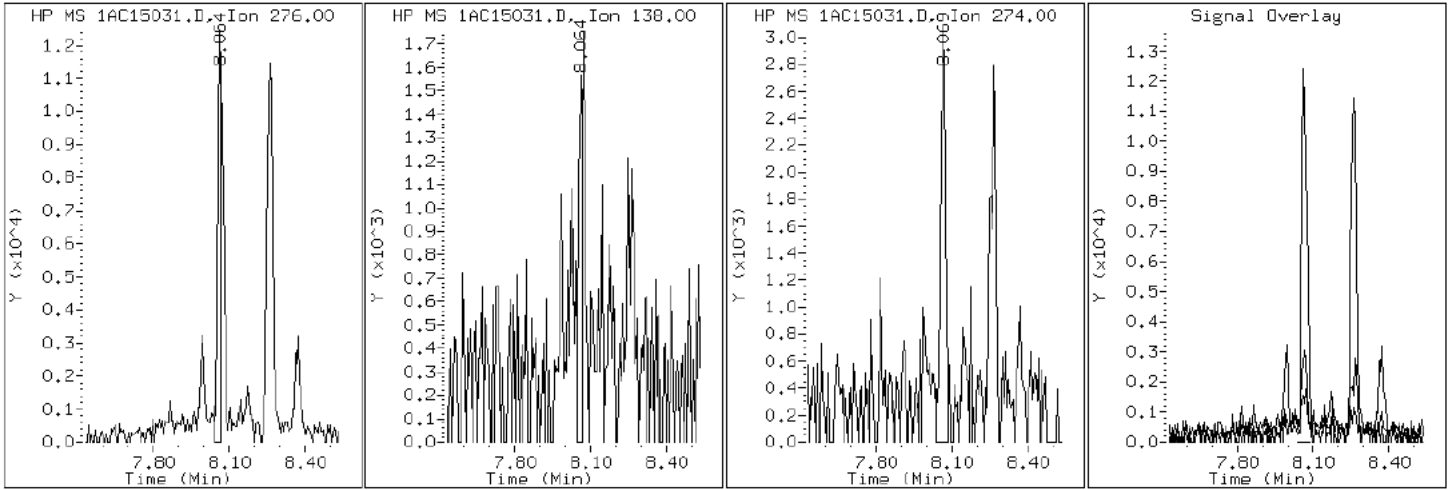
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

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



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

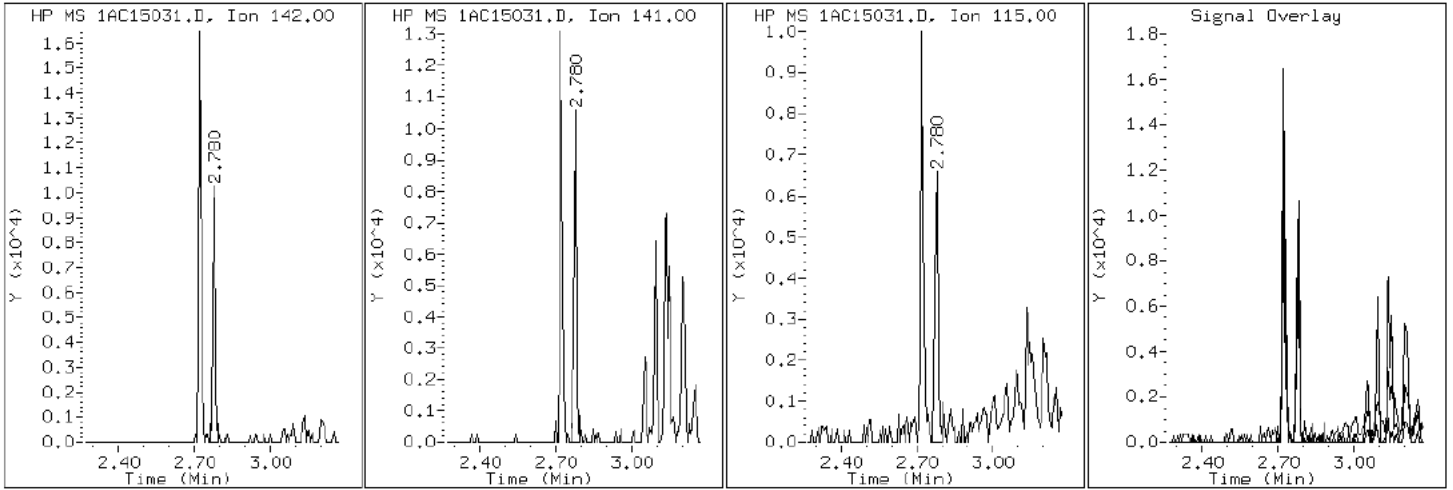
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

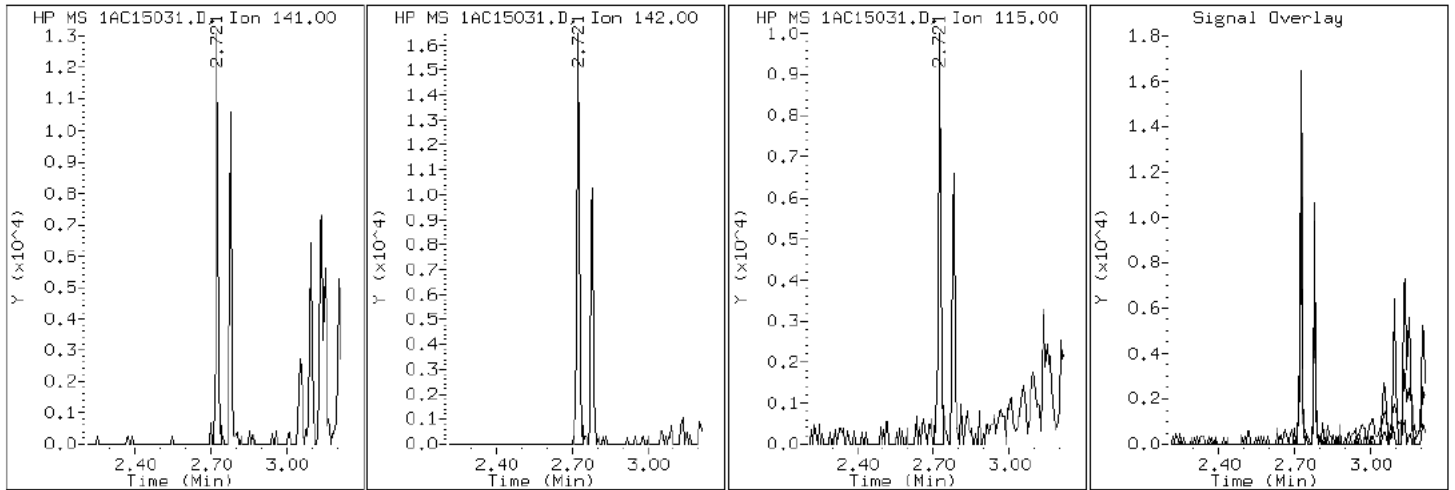
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

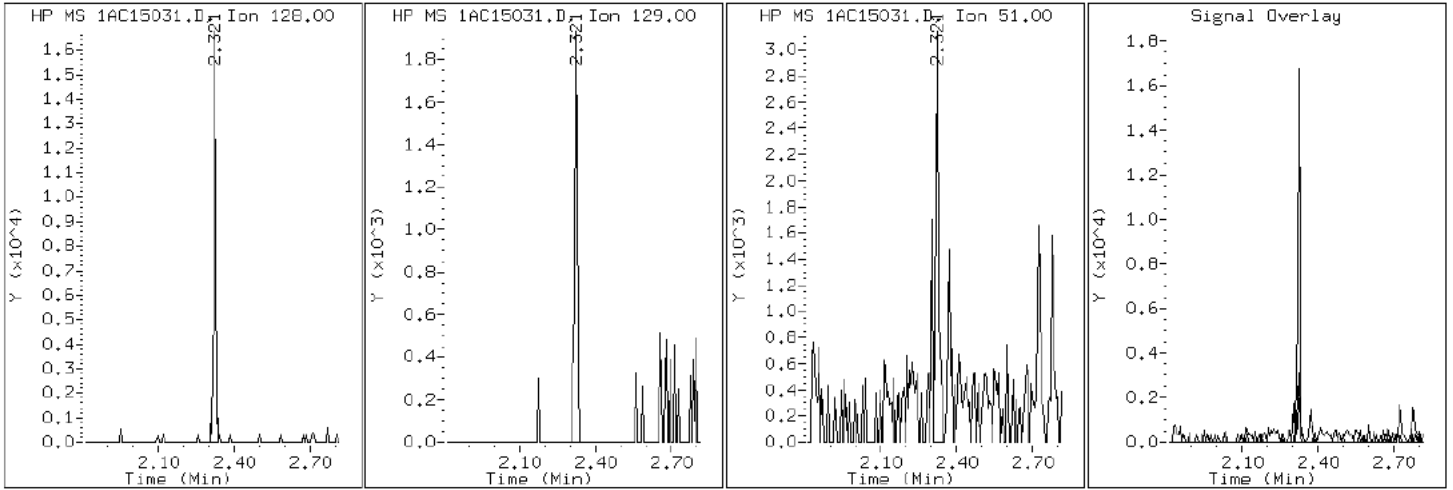
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

2 Naphthalene



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

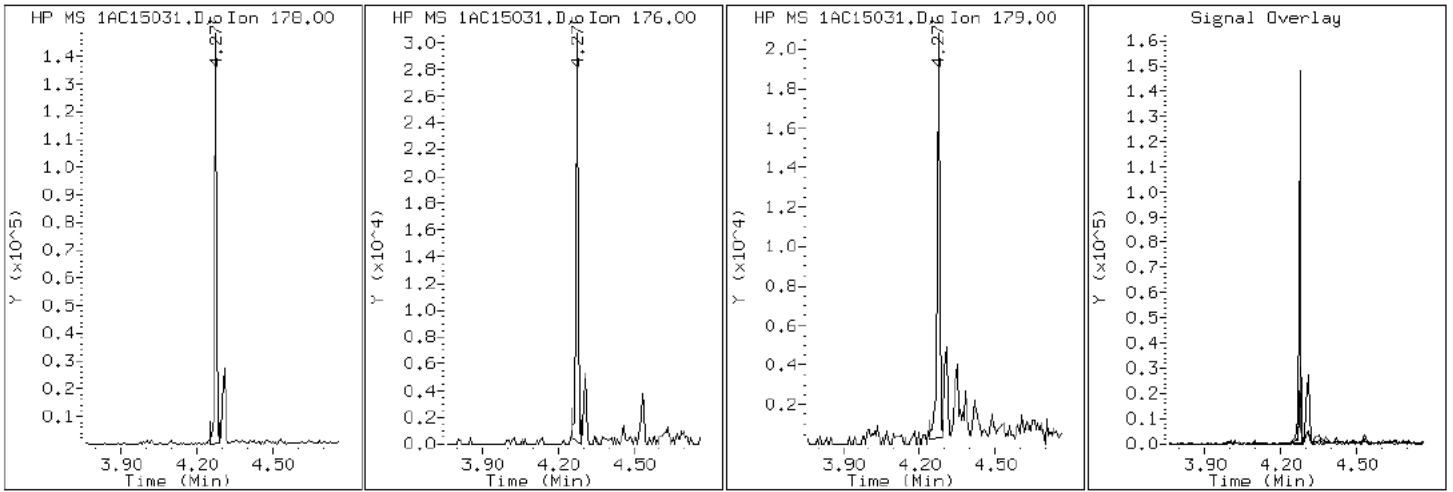
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15031.D

Date: 15-MAR-2013 20:21

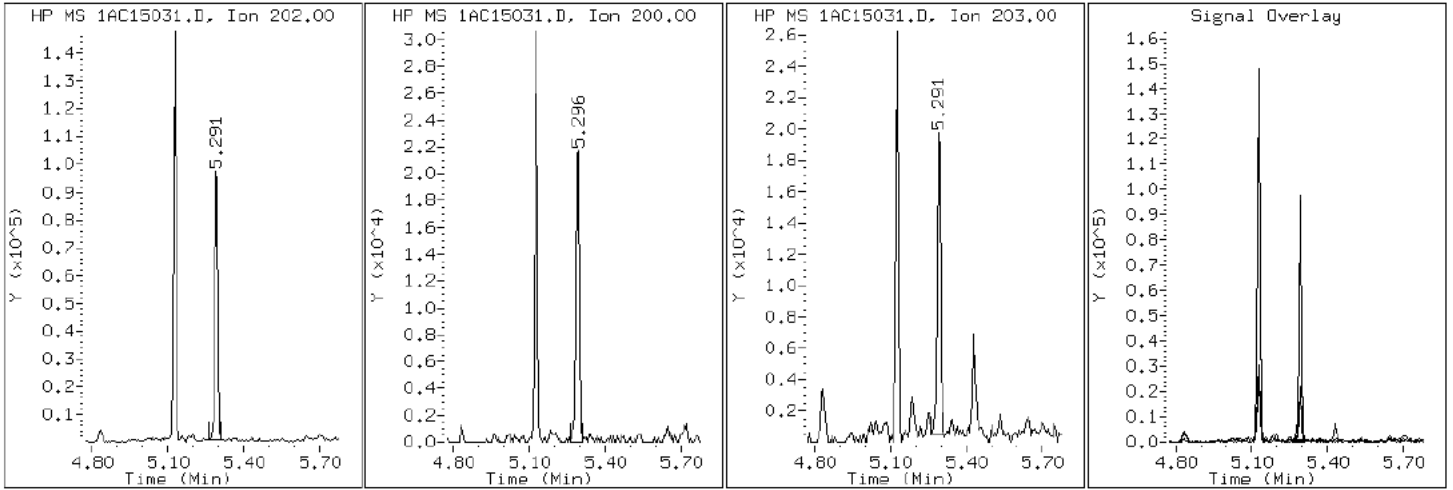
Client ID: CV0846A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-17-a

Operator: SCC

16 Pyrene

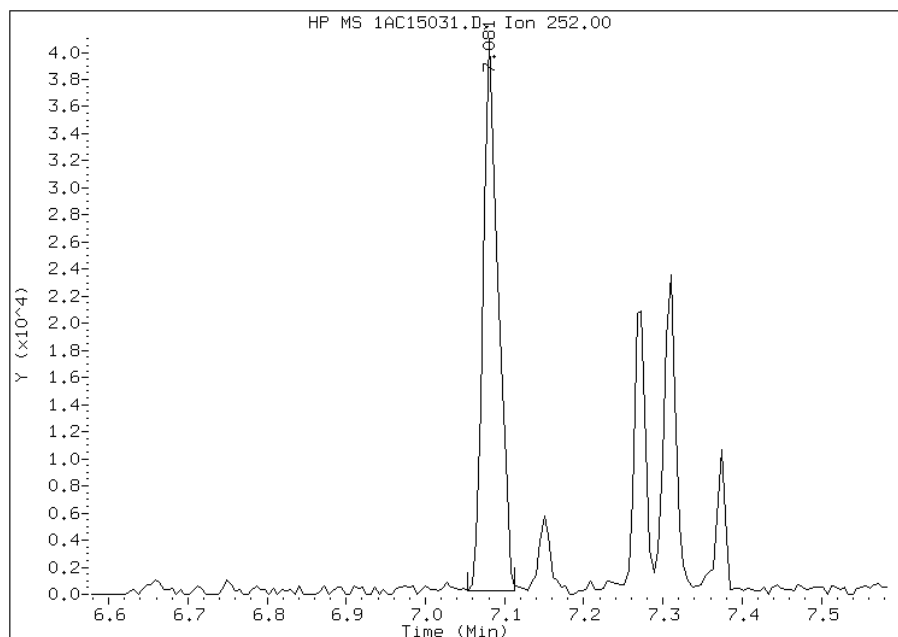


Manual Integration Report

Data File: 1AC15031.D
Inj. Date and Time: 15-MAR-2013 20:21
Instrument ID: BSMA5973.i
Client ID: CV0846A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

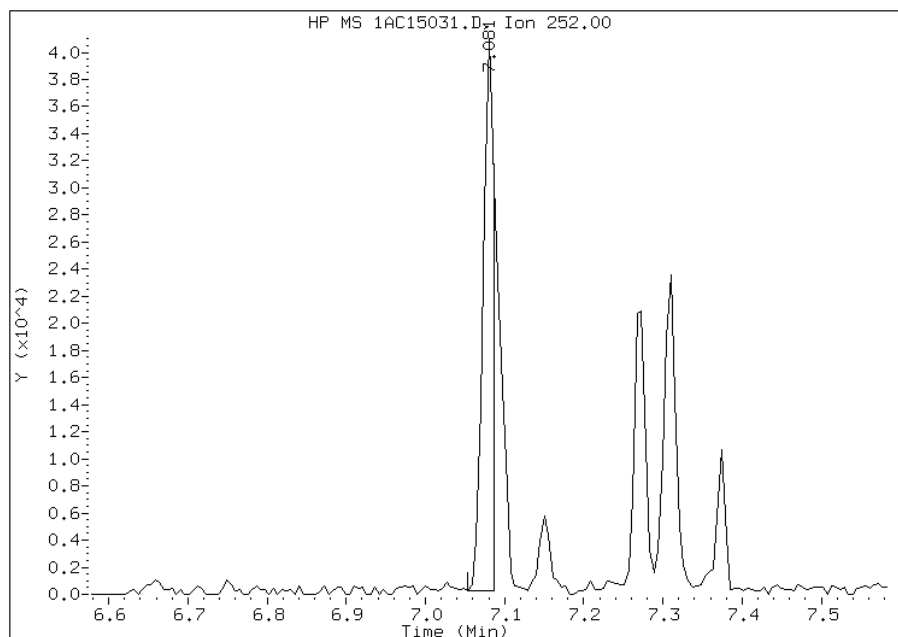
Processing Integration Results

RT: 7.08
Response: 53315
Amount: 6
Conc: 455



Manual Integration Results

RT: 7.08
Response: 37479
Amount: 4
Conc: 347



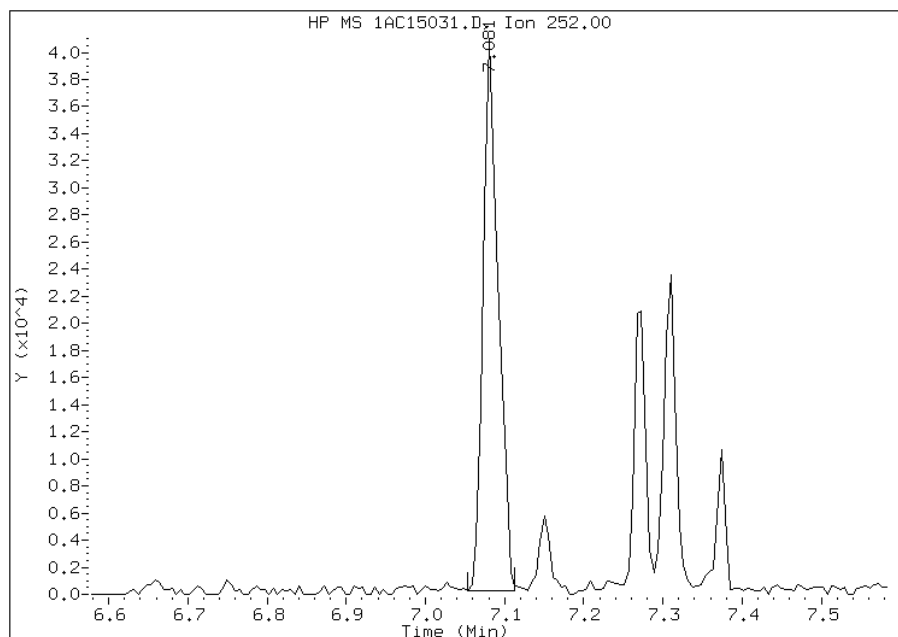
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:22
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15031.D
Inj. Date and Time: 15-MAR-2013 20:21
Instrument ID: BSMA5973.i
Client ID: CV0846A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

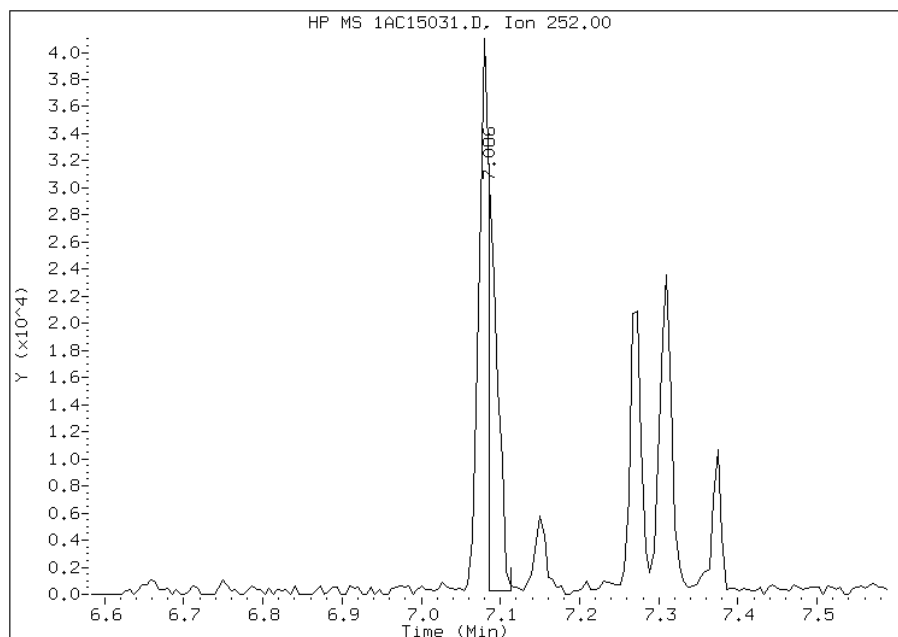
Processing Integration Results

RT: 7.08
Response: 53315
Amount: 5
Conc: 369



Manual Integration Results

RT: 7.09
Response: 25489
Amount: 2
Conc: 176



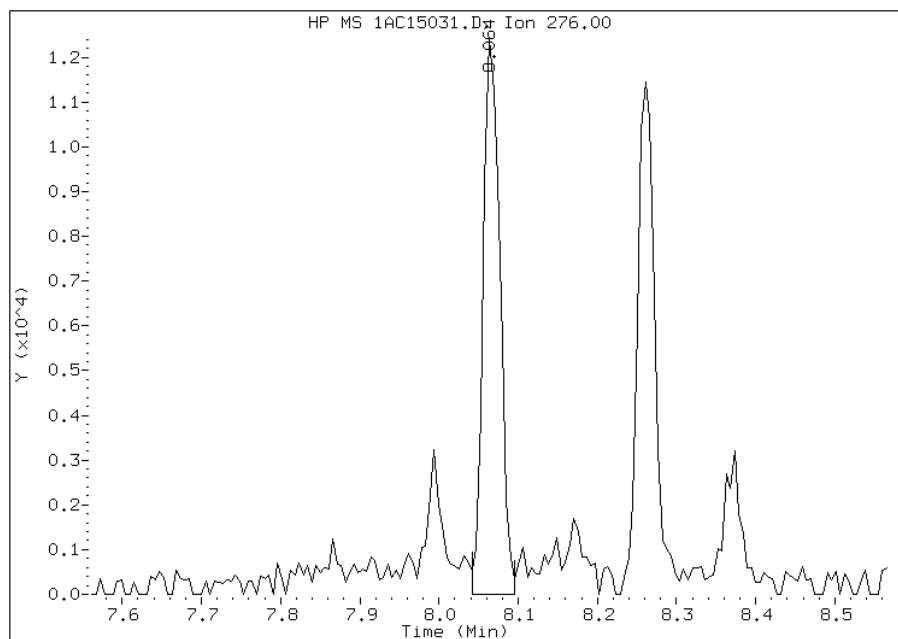
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15031.D
Inj. Date and Time: 15-MAR-2013 20:21
Instrument ID: BSMA5973.i
Client ID: CV0846A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

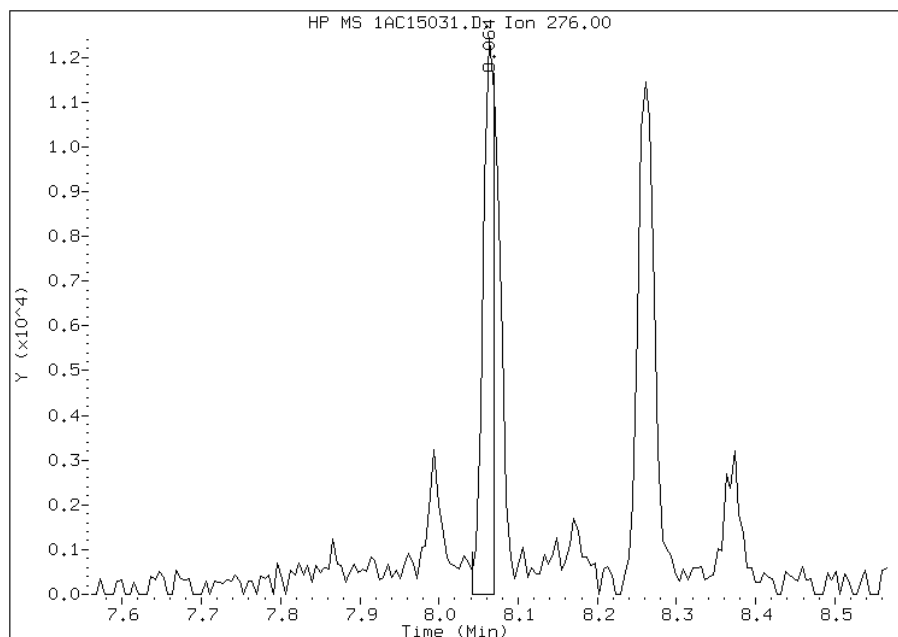
Processing Integration Results

RT: 8.06
Response: 18124
Amount: 2
Conc: 160



Manual Integration Results

RT: 8.06
Response: 12304
Amount: 1
Conc: 108



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0945A-CS Lab Sample ID: 680-88118-18
 Matrix: Solid Lab File ID: 1AC15032.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 10:45
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 14.95(g) Date Analyzed: 03/15/2013 20:36
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 24.6 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	100	J	210	27
120-12-7	Anthracene	84		45	22
56-55-3	Benzo[a]anthracene	380		43	21
50-32-8	Benzo[a]pyrene	180		55	28
205-99-2	Benzo[b]fluoranthene	760		65	32
191-24-2	Benzo[g,h,i]perylene	140		110	23
207-08-9	Benzo[k]fluoranthene	120		43	19
218-01-9	Chrysene	330		48	24
53-70-3	Dibenz(a,h)anthracene	59	J	110	22
206-44-0	Fluoranthene	440		110	21
86-73-7	Fluorene	110	U	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	140		110	38
90-12-0	1-Methylnaphthalene	130	J	210	23
91-57-6	2-Methylnaphthalene	450		210	38
91-20-3	Naphthalene	140	J	210	23
85-01-8	Phenanthrene	310		43	21
129-00-0	Pyrene	430		110	20

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\1A031513.b\1AC15032.D
 Lab Smp Id: 680-88118-A-18-A Client Smp ID: CV0945A-CS
 Inj Date : 15-MAR-2013 20:36
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-18-a
 Misc Info : 680-88118-A-18-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 32
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	24.605	% 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	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.311	2.303	(1.000)	486888	40.0000		
* 6 Acenaphthene-d10	164		3.337	3.324	(1.000)	394643	40.0000		
* 10 Phenanthrene-d10	188		4.261	4.248	(1.000)	676011	40.0000		
\$ 14 o-Terphenyl	230		4.533	4.526	(1.064)	13551	1.62592	576.9980	
* 18 Chrysene-d12	240		6.270	6.246	(1.000)	519562	40.0000		(H)
* 23 Perylene-d12	264		7.365	7.330	(1.000)	526046	40.0000		(H)
2 Naphthalene	128		2.322	2.314	(1.005)	4535	0.40316	143.0701	
3 2-Methylnaphthalene	141		2.722	2.715	(1.178)	2688	1.27042	450.8396	
4 1-Methylnaphthalene	142		2.781	2.773	(1.203)	2286	0.35342	125.4193	
5 Acenaphthylene	152		3.251	3.238	(0.974)	1689	0.28495	101.1231	
11 Phenanthrene	178		4.272	4.264	(1.002)	14774	0.86230	306.0080	
12 Anthracene	178		4.309	4.296	(1.011)	3915	0.23566	83.6297	
13 Carbazole	167		4.475	4.456	(1.050)	2199	0.15102	53.5936	
15 Fluoranthene	202		5.126	5.113	(1.203)	21160	1.24940	443.3805	

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202		5.292	5.279	(0.844)	17875	1.19990	425.8161(H)
17 Benzo(a)anthracene	228		6.264	6.235	(0.999)	13438	1.06027	376.2626
19 Chrysene	228		6.280	6.262	(1.002)	12326	0.91596	325.0534(H)
20 Benzo(b)fluoranthene	252		7.076	7.052	(0.961)	13474	2.13225	756.6817(MH)
21 Benzo(k)fluoranthene	252		7.087	7.074	(0.962)	4857	0.34229	121.4711(M)
22 Benzo(a)pyrene	252		7.306	7.282	(0.992)	6226	0.50432	178.9724(H)
24 Indeno(1,2,3-cd)pyrene	276		8.059	8.035	(1.094)	4411	0.39599	140.5275(MH)
25 Dibenzo(a,h)anthracene	278		8.065	8.045	(1.095)	1830	0.16576	58.8247(H)
26 Benzo(g,h,i)perylene	276		8.257	8.222	(1.121)	4569	0.40749	144.6065(H)

QC Flag Legend

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

Data File: 1AC15032.D

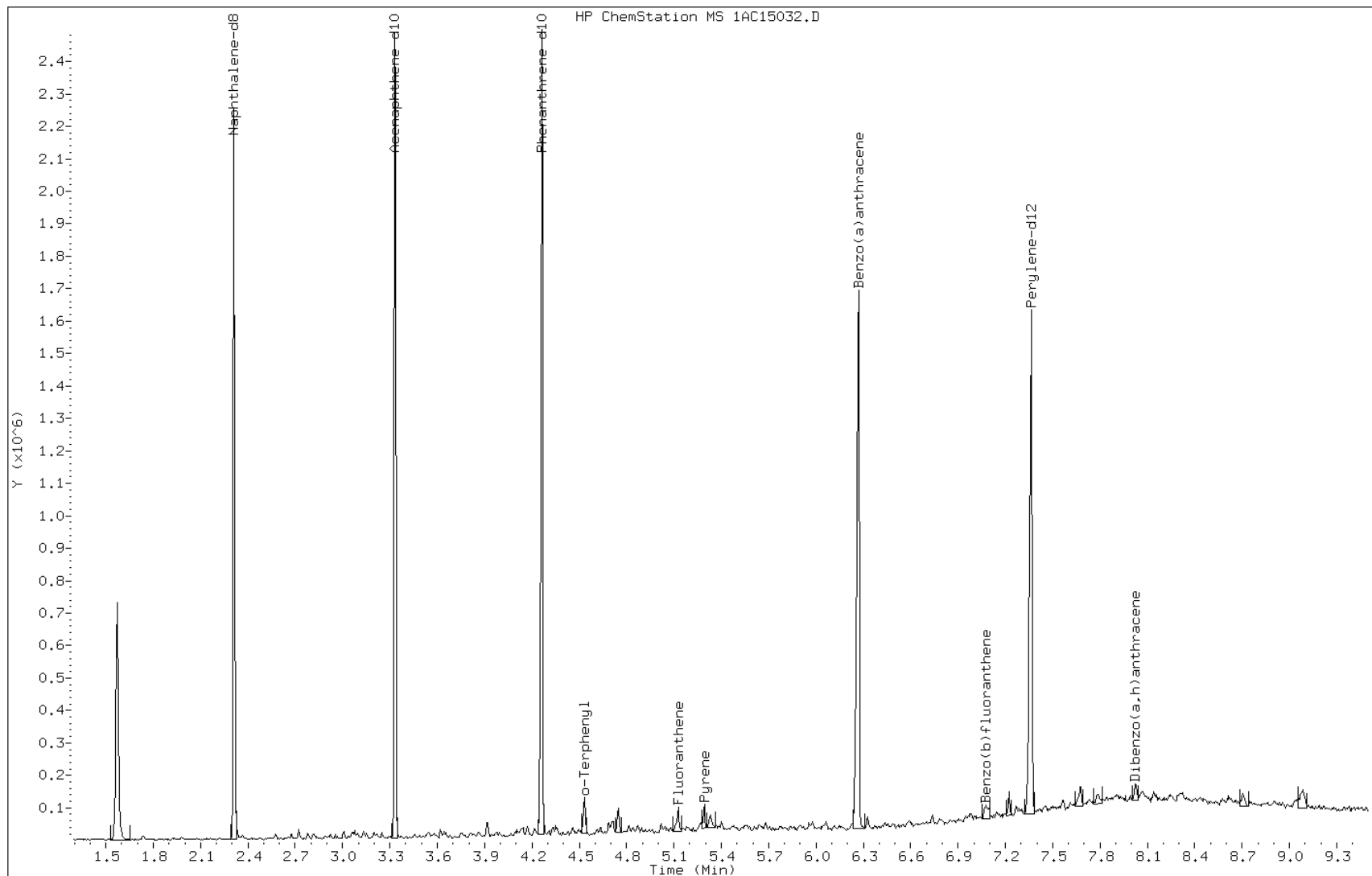
Date: 15-MAR-2013 20:36

Client ID: CV0945A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-18-a

Operator: SCC



Data File: 1AC15032.D

Date: 15-MAR-2013 20:36

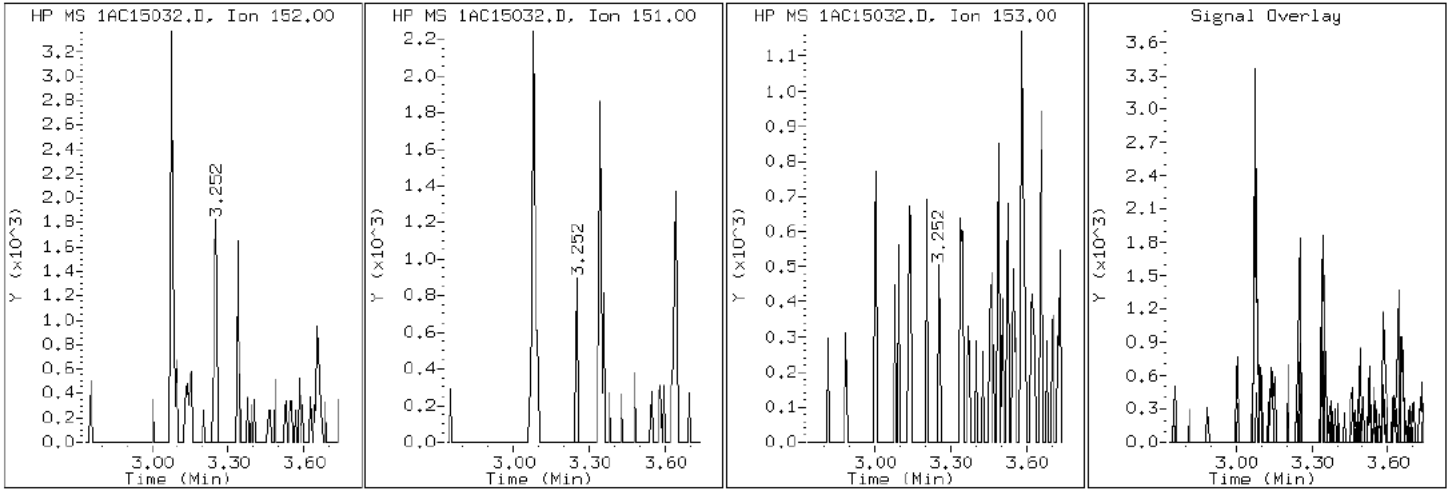
Client ID: CV0945A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-18-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15032.D

Date: 15-MAR-2013 20:36

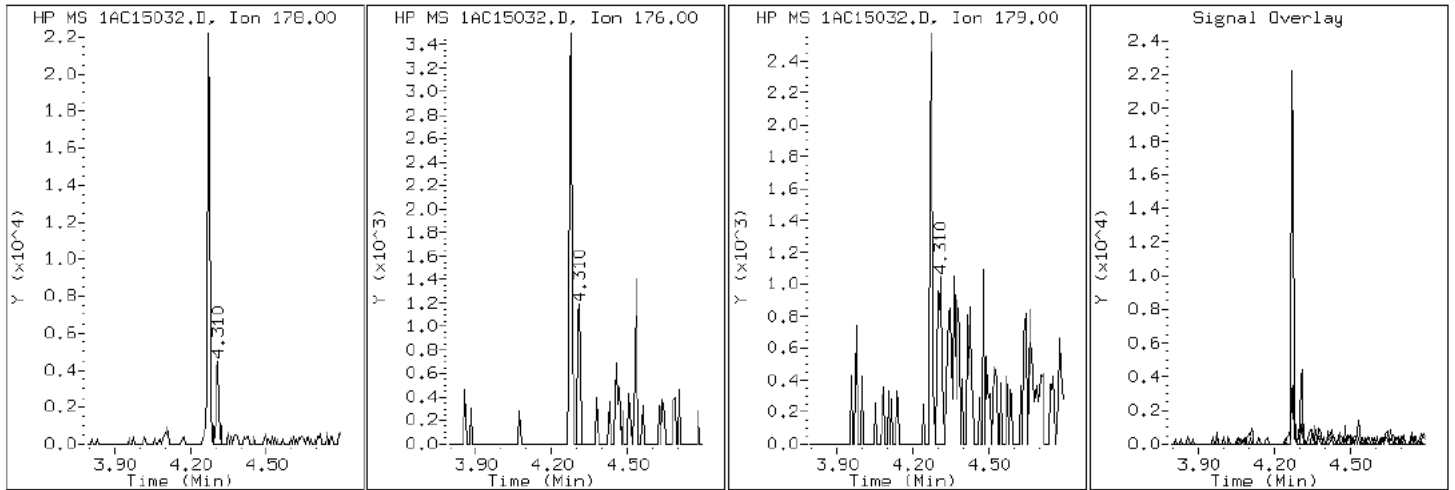
Client ID: CV0945A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-18-a

Operator: SCC

12 Anthracene



Data File: 1AC15032.D

Date: 15-MAR-2013 20:36

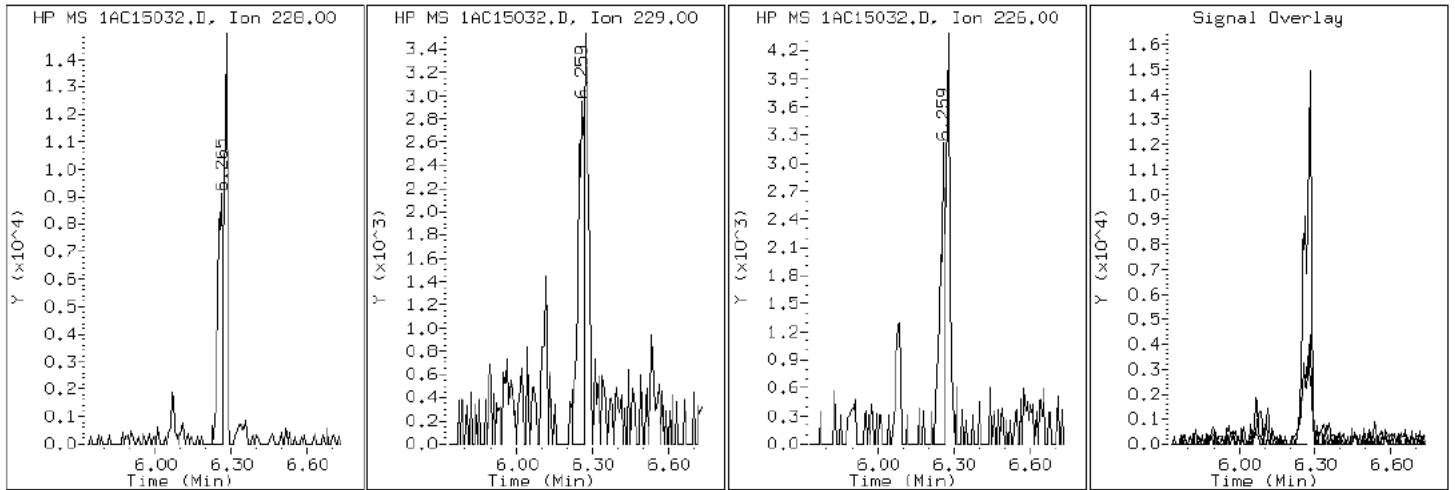
Client ID: CV0945A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-18-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15032.D

Date: 15-MAR-2013 20:36

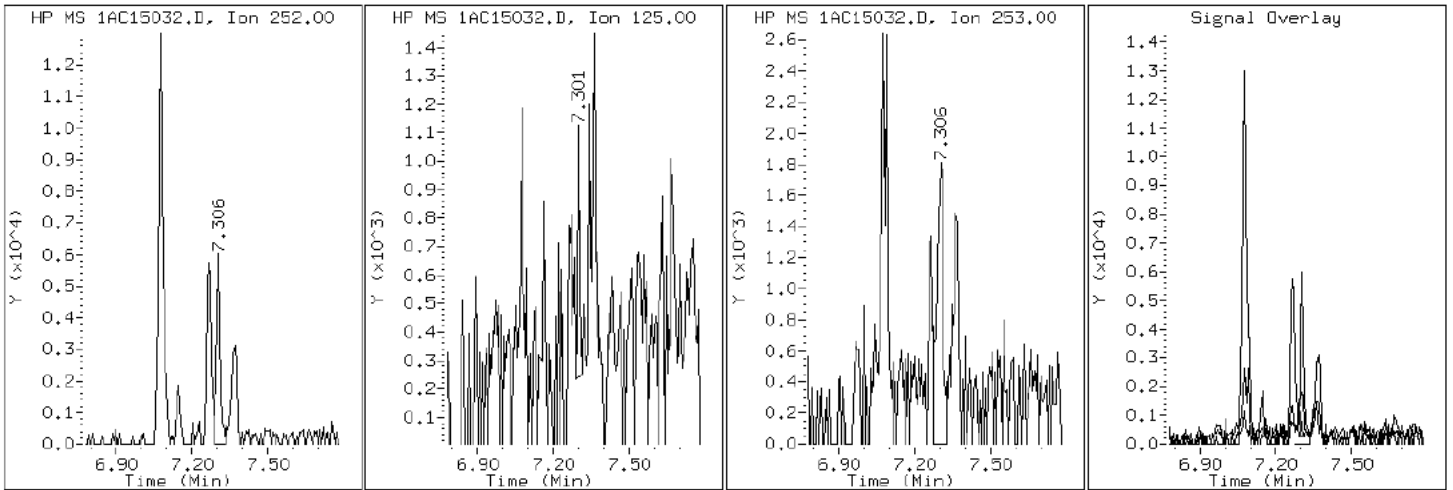
Client ID: CV0945A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-18-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15032.D

Date: 15-MAR-2013 20:36

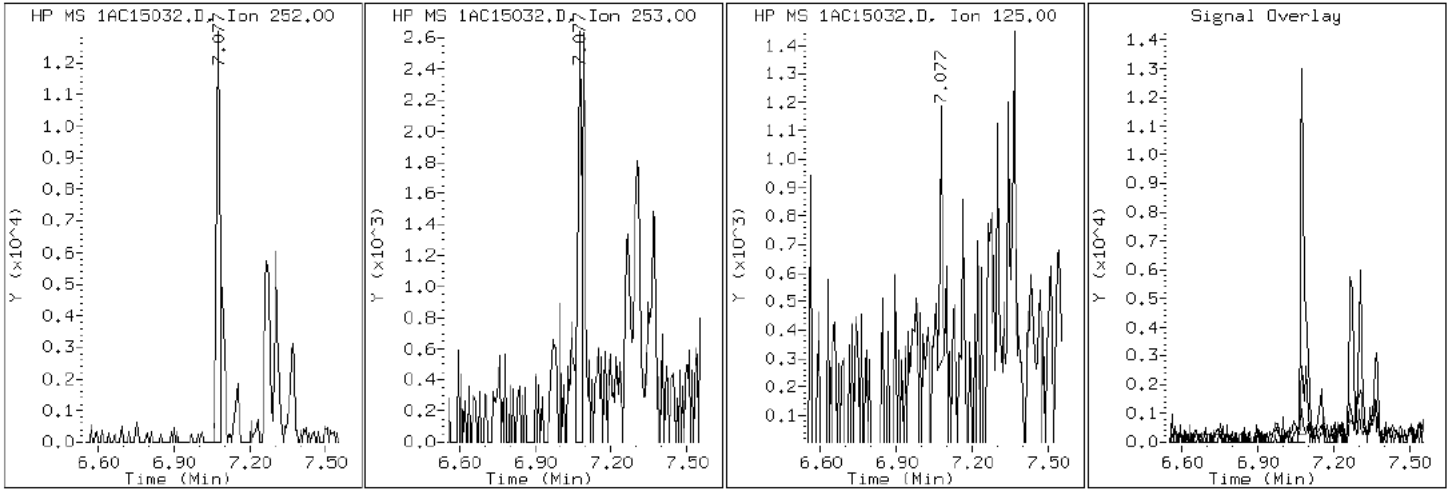
Client ID: CV0945A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-18-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15032.D

Date: 15-MAR-2013 20:36

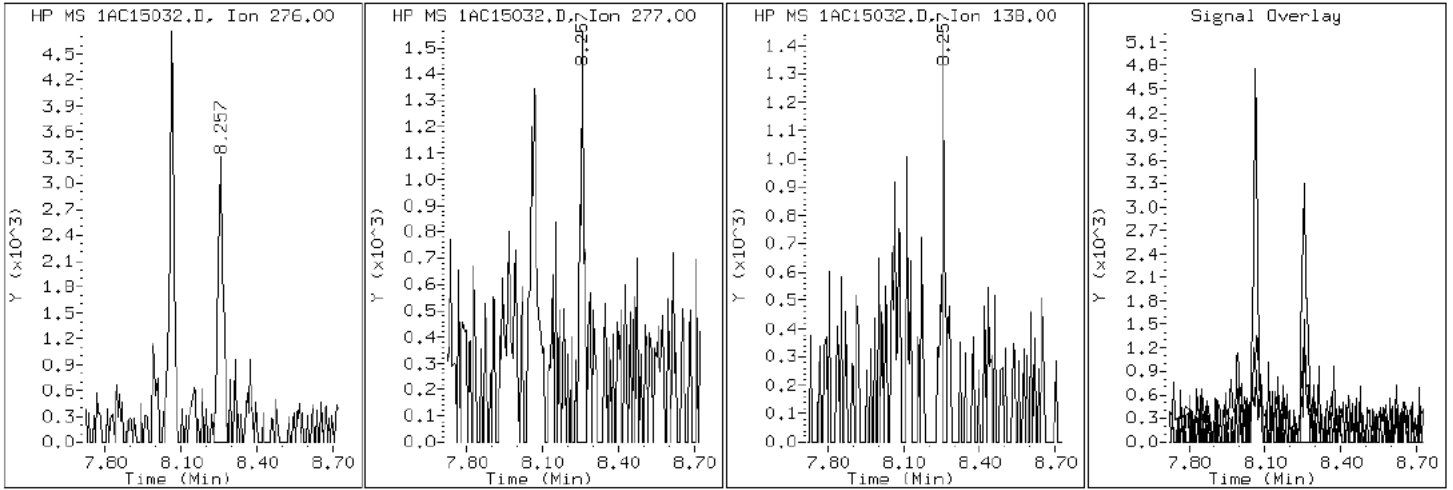
Client ID: CV0945A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-18-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15032.D

Date: 15-MAR-2013 20:36

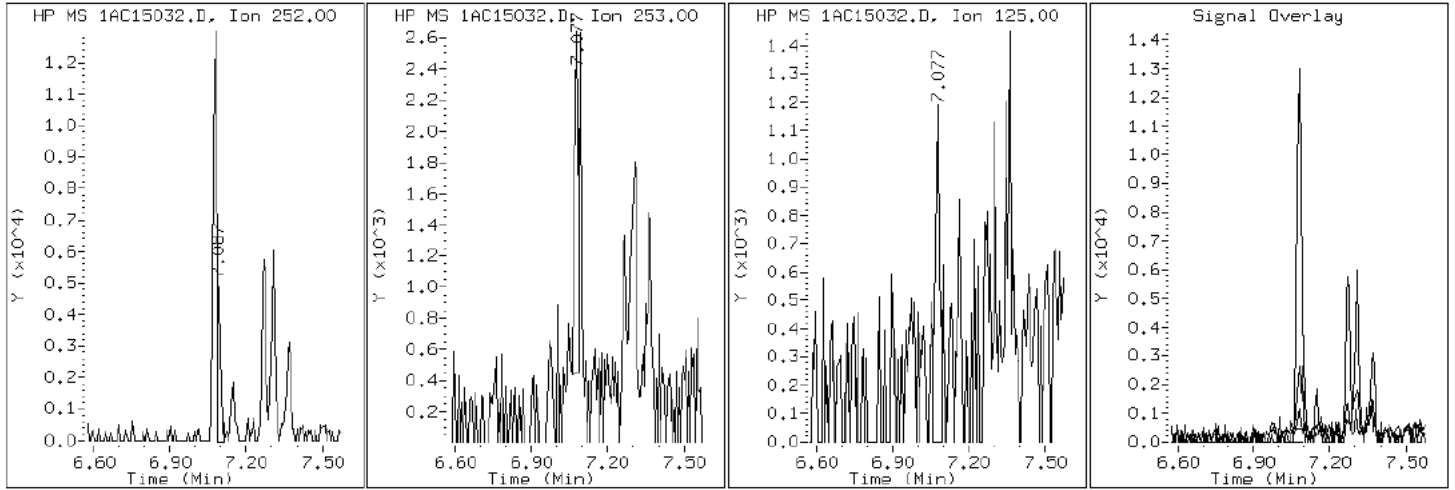
Client ID: CV0945A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-18-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15032.D

Date: 15-MAR-2013 20:36

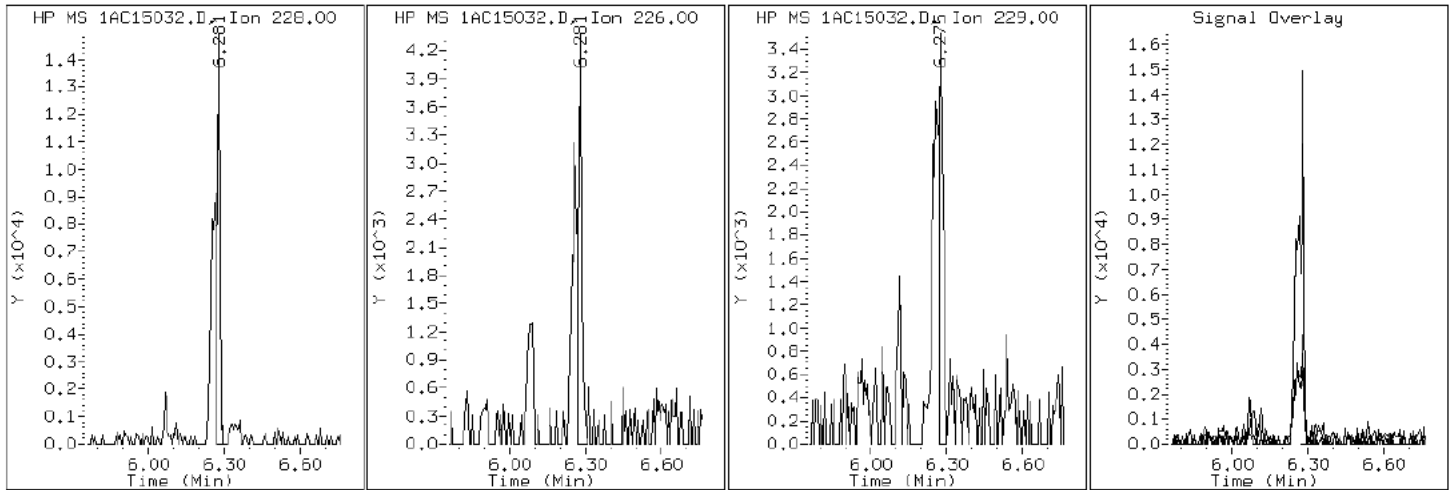
Client ID: CV0945A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-18-a

Operator: SCC

19 Chrysene



Data File: 1AC15032.D

Date: 15-MAR-2013 20:36

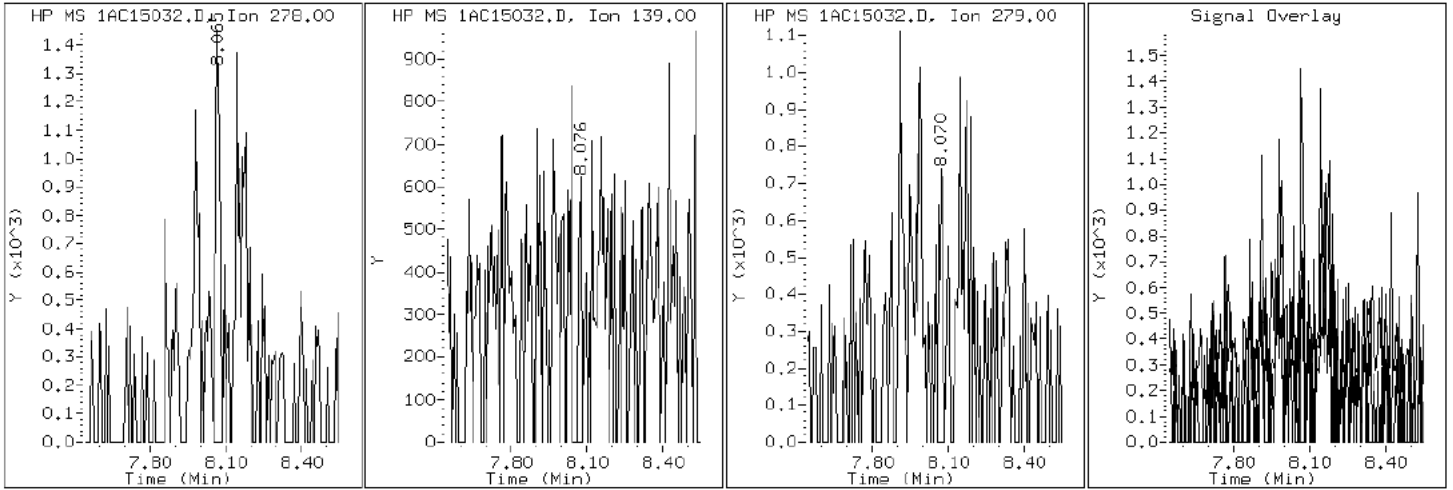
Client ID: CV0945A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-18-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC15032.D

Date: 15-MAR-2013 20:36

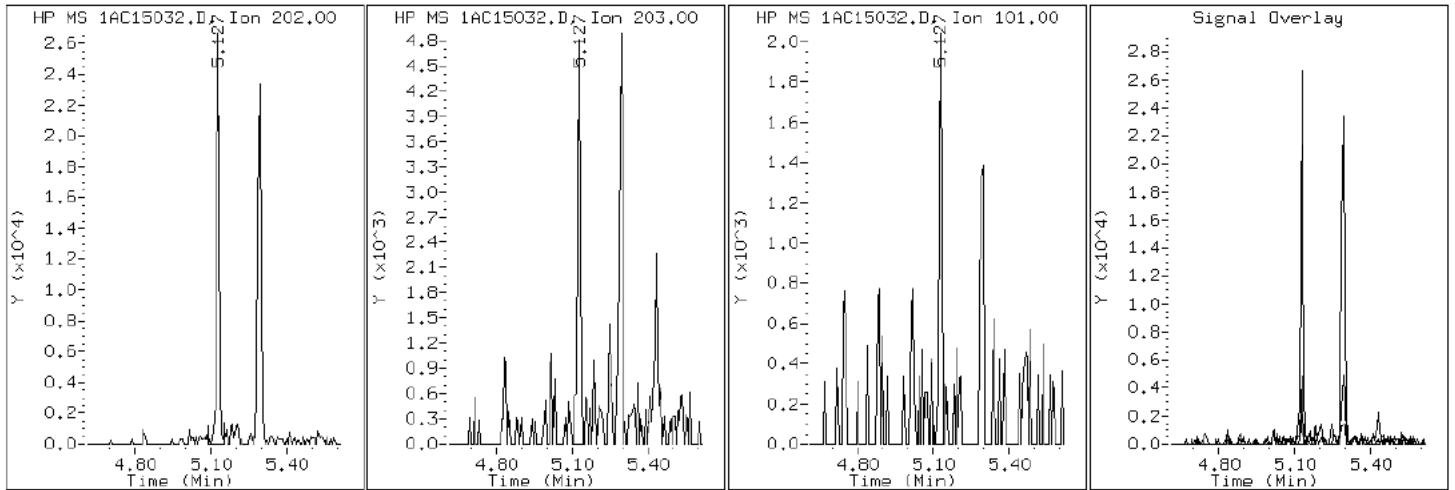
Client ID: CV0945A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-18-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15032.D

Date: 15-MAR-2013 20:36

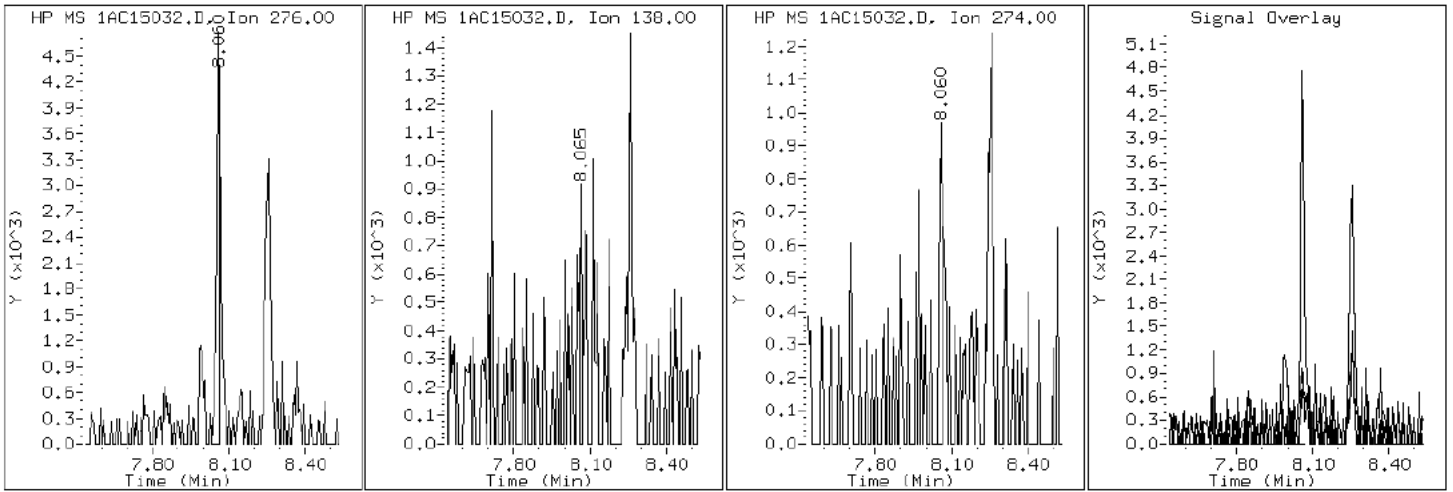
Client ID: CV0945A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-18-a

Operator: SCC

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



Data File: 1AC15032.D

Date: 15-MAR-2013 20:36

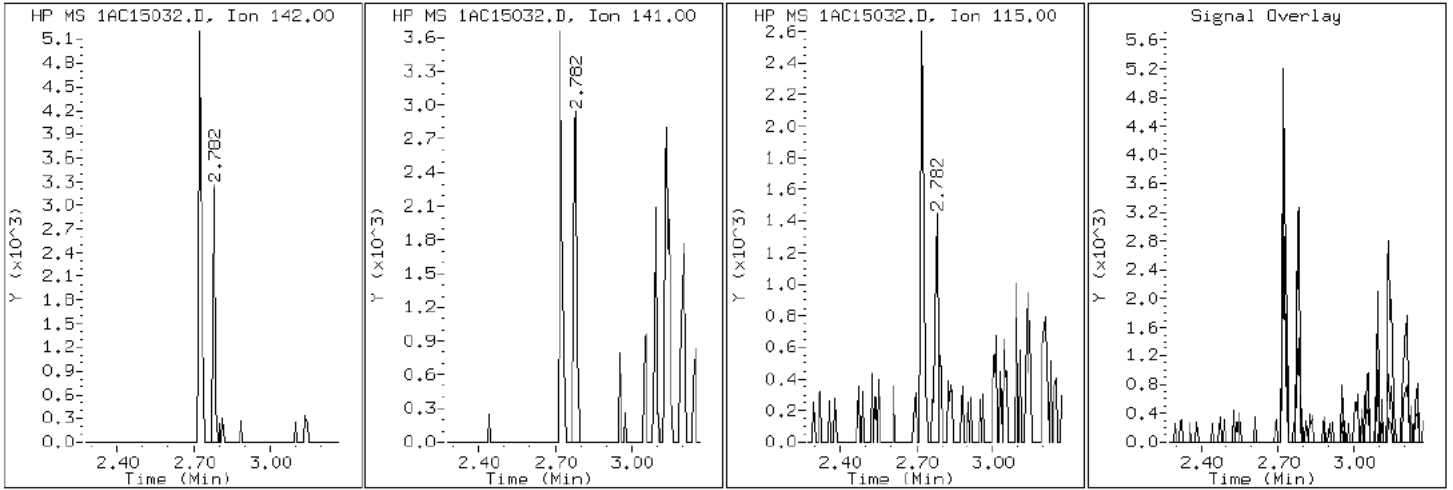
Client ID: CV0945A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-18-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15032.D

Date: 15-MAR-2013 20:36

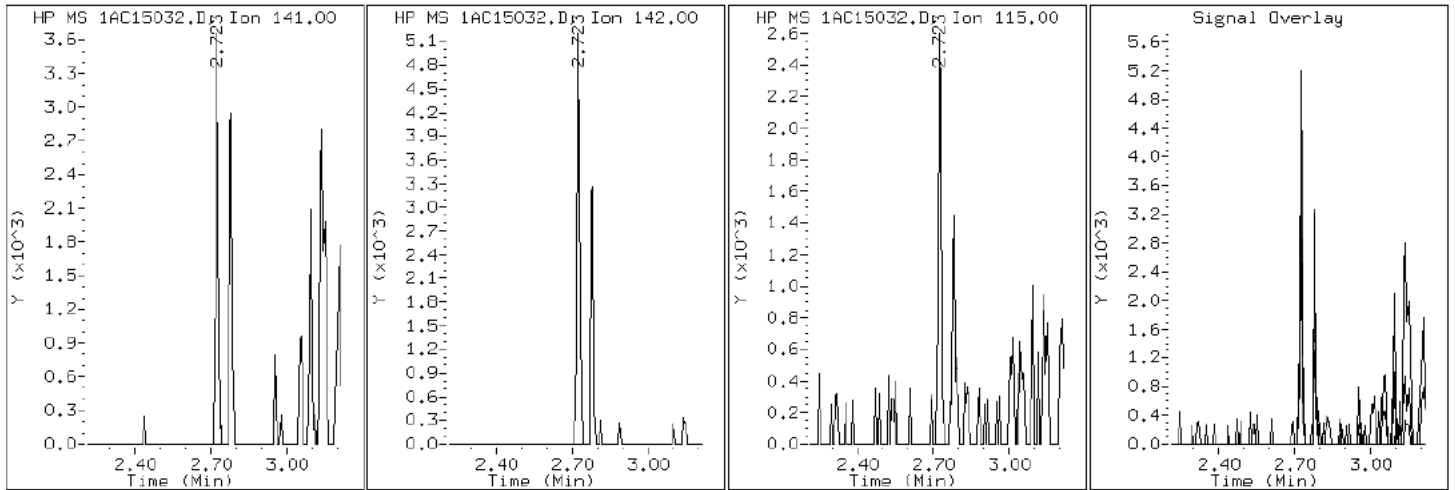
Client ID: CV0945A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-18-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15032.D

Date: 15-MAR-2013 20:36

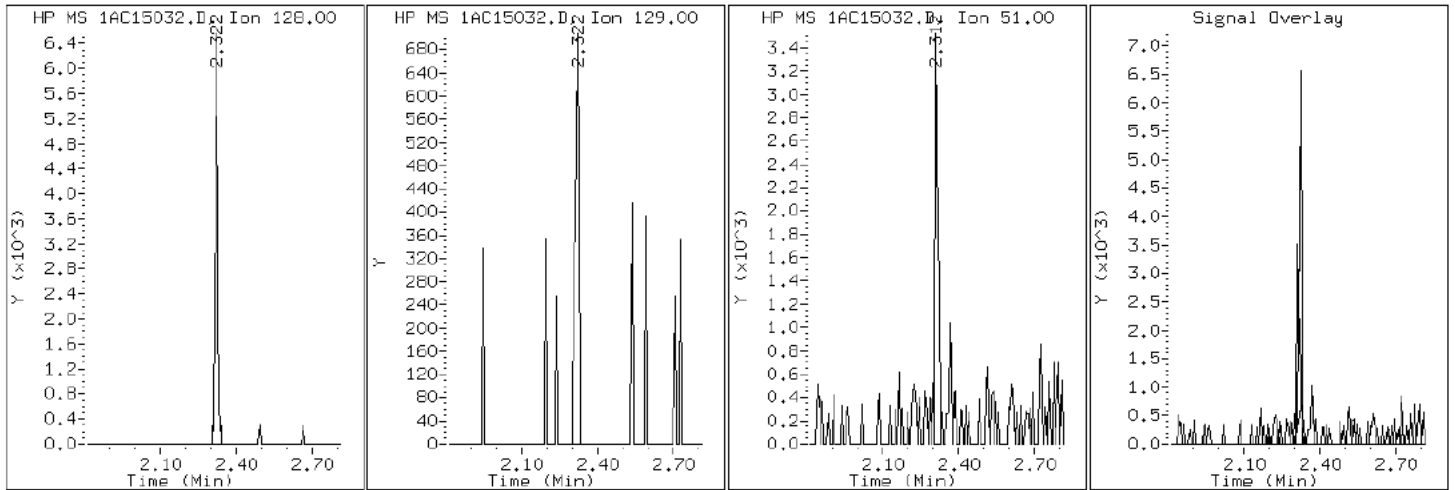
Client ID: CV0945A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-18-a

Operator: SCC

2 Naphthalene



Data File: 1AC15032.D

Date: 15-MAR-2013 20:36

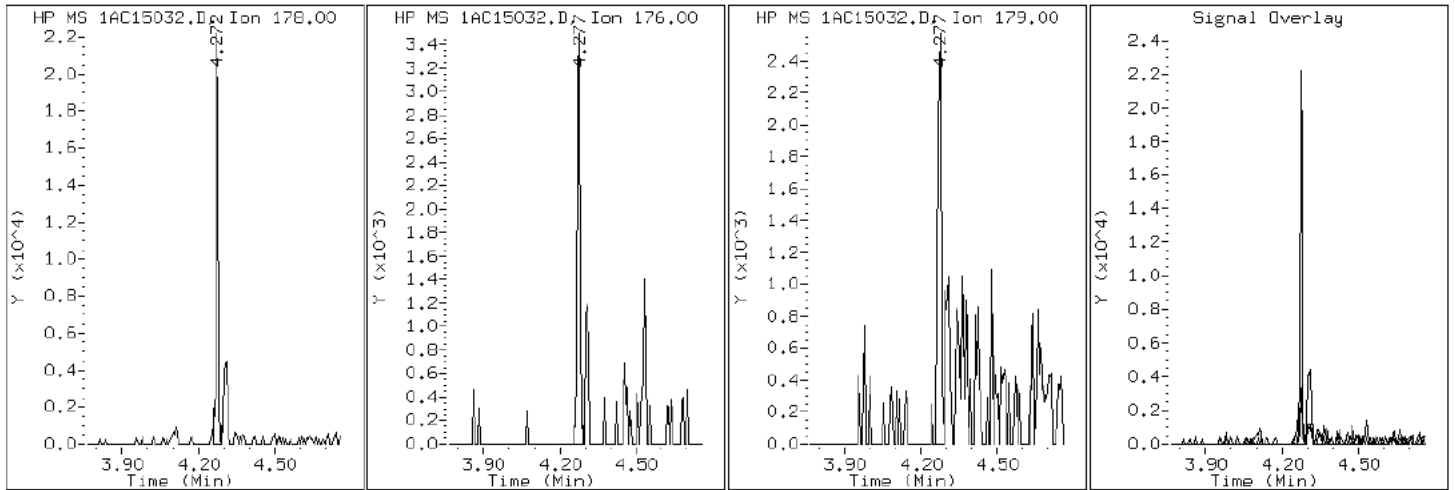
Client ID: CV0945A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-18-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15032.D

Date: 15-MAR-2013 20:36

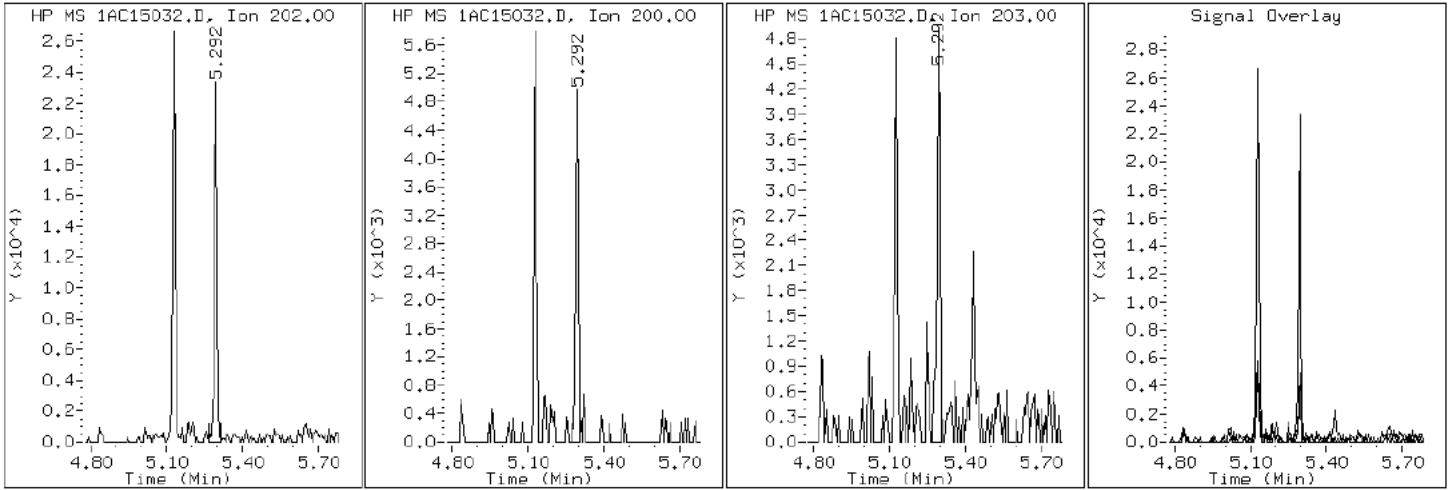
Client ID: CV0945A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-18-a

Operator: SCC

16 Pyrene

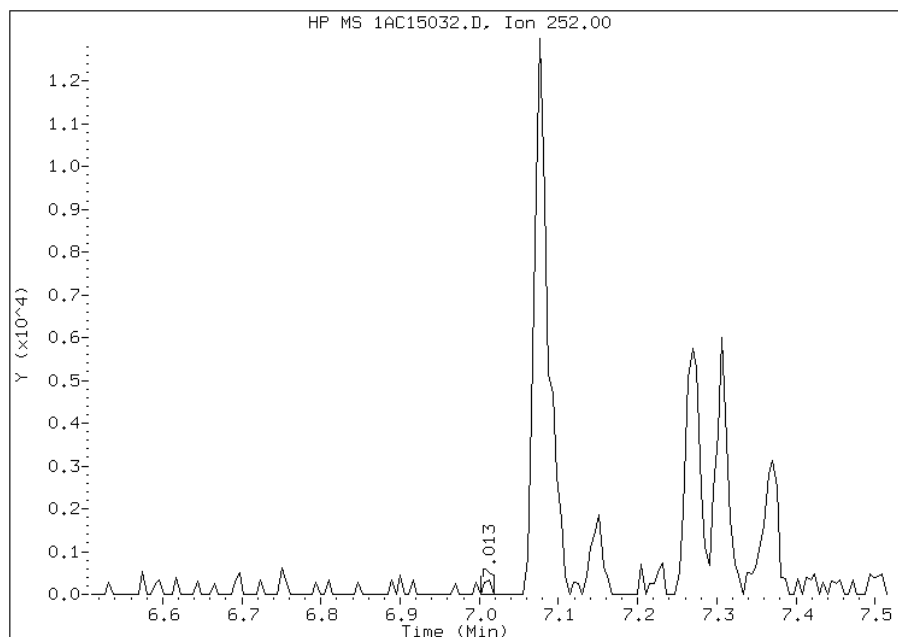


Manual Integration Report

Data File: 1AC15032.D
Inj. Date and Time: 15-MAR-2013 20:36
Instrument ID: BSMA5973.i
Client ID: CV0945A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

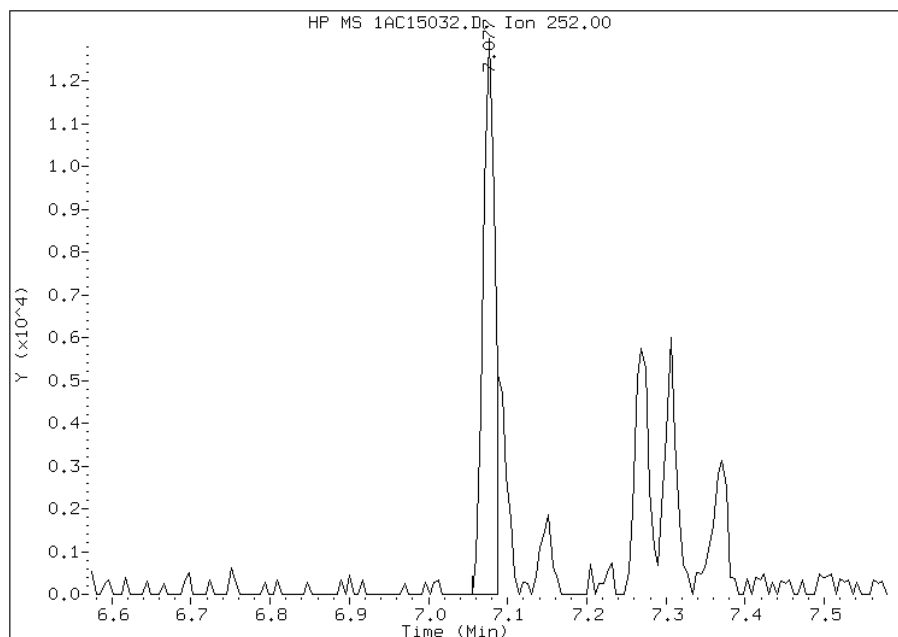
Processing Integration Results

RT: 7.01
Response: 202
Amount: 1
Conc: 432



Manual Integration Results

RT: 7.08
Response: 13474
Amount: 2
Conc: 757



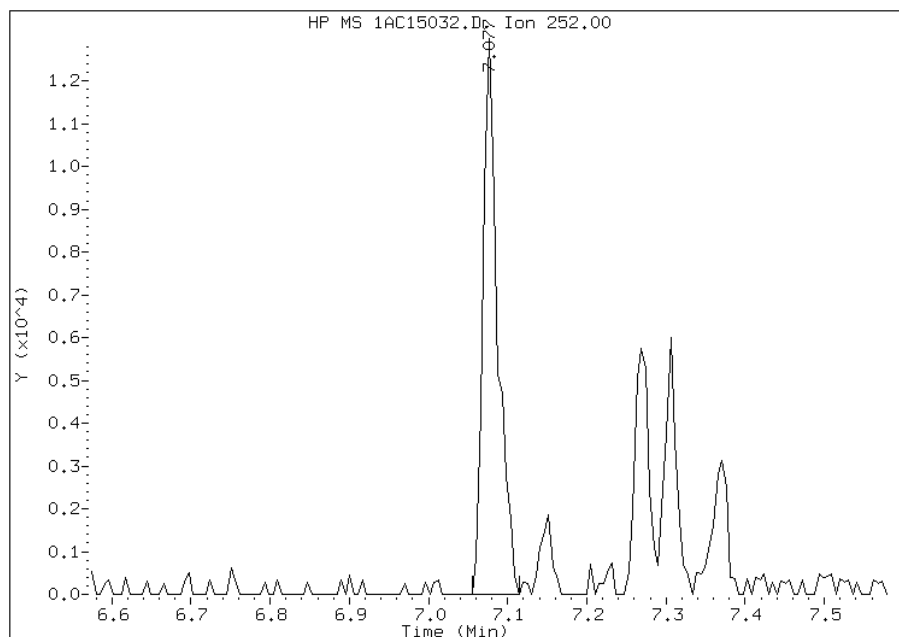
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:23
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15032.D
Inj. Date and Time: 15-MAR-2013 20:36
Instrument ID: BSMA5973.i
Client ID: CV0945A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

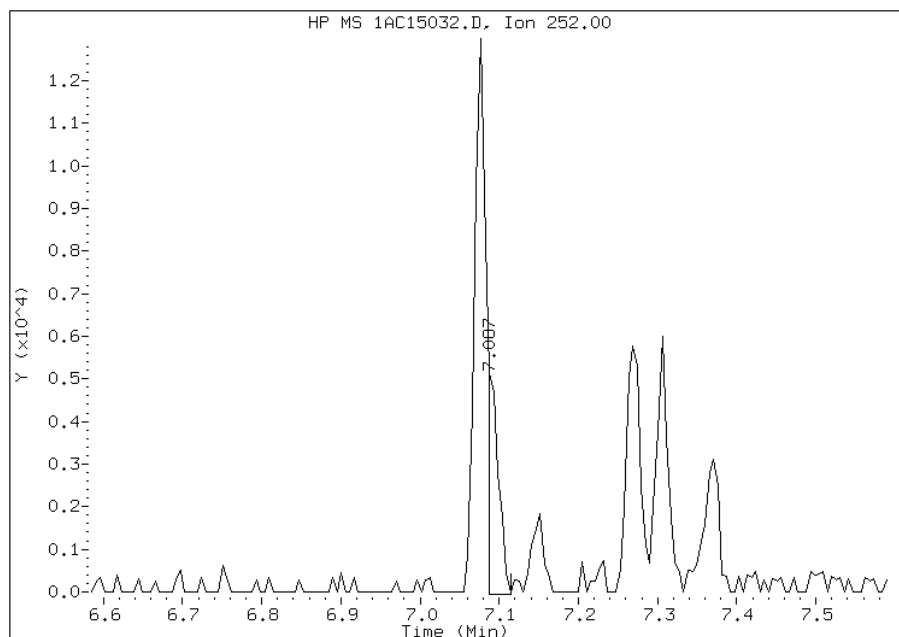
Processing Integration Results

RT: 7.08
Response: 16573
Amount: 1
Conc: 414



Manual Integration Results

RT: 7.09
Response: 4857
Amount: 0
Conc: 121



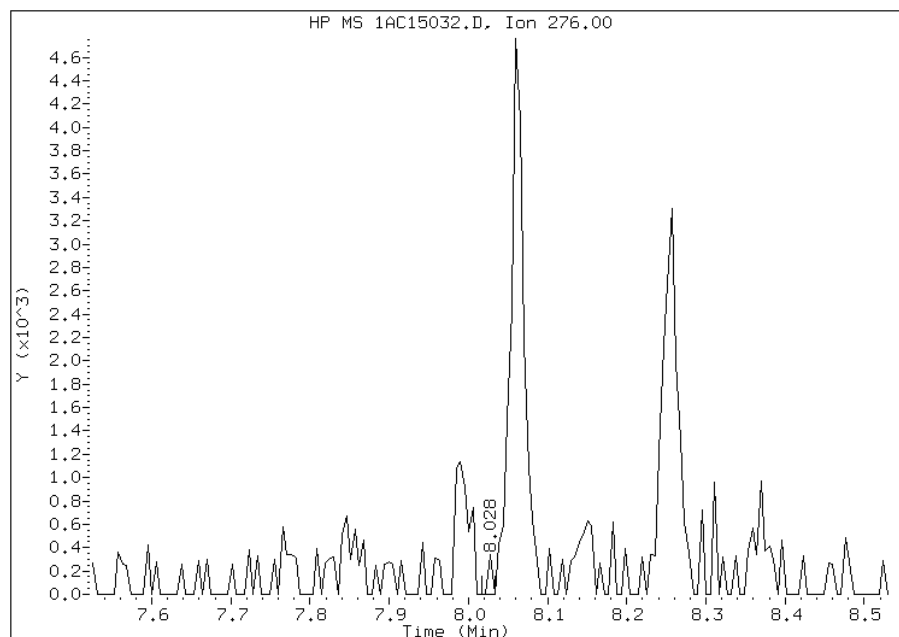
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15032.D
Inj. Date and Time: 15-MAR-2013 20:36
Instrument ID: BSMA5973.i
Client ID: CV0945A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

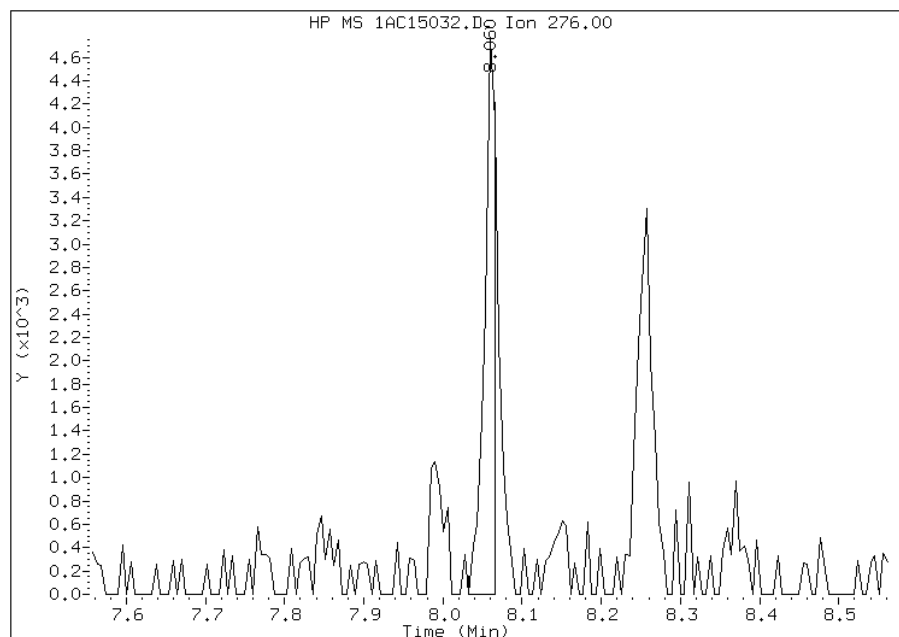
Processing Integration Results

RT: 8.03
Response: 109
Amount: 0
Conc: 3



Manual Integration Results

RT: 8.06
Response: 4411
Amount: 0
Conc: 141



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0960A-CS Lab Sample ID: 680-88118-19
 Matrix: Solid Lab File ID: 1AC15033.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 10:15
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 14.98(g) Date Analyzed: 03/15/2013 20:51
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 18.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	24	J	49	6.1
120-12-7	Anthracene	33		10	5.2
56-55-3	Benzo[a]anthracene	320		9.8	4.8
50-32-8	Benzo[a]pyrene	350		13	6.4
205-99-2	Benzo[b]fluoranthene	680		15	7.5
191-24-2	Benzo[g,h,i]perylene	360		25	5.4
207-08-9	Benzo[k]fluoranthene	230		9.8	4.4
218-01-9	Chrysene	420		11	5.5
53-70-3	Dibenz(a,h)anthracene	140		25	5.0
206-44-0	Fluoranthene	350		25	4.9
86-73-7	Fluorene	25	U	25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	330		25	8.7
90-12-0	1-Methylnaphthalene	76		49	5.4
91-57-6	2-Methylnaphthalene	160		49	8.7
91-20-3	Naphthalene	110		49	5.4
85-01-8	Phenanthrene	180		9.8	4.8
129-00-0	Pyrene	370		25	4.5

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15033.D
 Lab Smp Id: 680-88118-A-19-A Client Smp ID: CV0960A-CS
 Inj Date : 15-MAR-2013 20:51
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-19-a
 Misc Info : 680-88118-A-19-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 33
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	18.519	% 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		2.314	2.303	(1.000)	415955	40.0000		
* 6 Acenaphthene-d10	164		3.334	3.324	(1.000)	320167	40.0000		
* 10 Phenanthrene-d10	188		4.258	4.248	(1.000)	473351	40.0000		
\$ 14 o-Terphenyl	230		4.531	4.526	(1.064)	41341	6.68403	547.6054	
* 18 Chrysene-d12	240		6.267	6.246	(1.000)	361121	40.0000	(H)	
* 23 Perylene-d12	264		7.362	7.330	(1.000)	420172	40.0000		
2 Naphthalene	128		2.319	2.314	(1.002)	13102	1.36338	111.6979	
3 2-Methylnaphthalene	141		2.725	2.715	(1.178)	6004	1.89930	155.6049	
4 1-Methylnaphthalene	142		2.778	2.773	(1.201)	5102	0.92328	75.6422	
5 Acenaphthylene	152		3.249	3.238	(0.974)	1458	0.29270	23.9801	
11 Phenanthrene	178		4.274	4.264	(1.004)	26024	2.16922	177.7184	
12 Anthracene	178		4.306	4.296	(1.011)	4748	0.40816	33.4397	
13 Carbazole	167		4.472	4.456	(1.050)	3087	0.30277	24.8055	
15 Fluoranthene	202		5.129	5.113	(1.204)	50497	4.25815	348.8592	

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
16 Pyrene	202		5.295	5.279	(0.845)	47303	4.56850	374.2851(H)
17 Benzo(a)anthracene	228		6.256	6.235	(0.998)	39601	3.94998	323.6120(H)
19 Chrysene	228		6.278	6.262	(1.002)	48150	5.14799	421.7613(H)
20 Benzo(b)fluoranthene	252		7.079	7.052	(0.962)	82739	8.34902	684.0137(M)
21 Benzo(k)fluoranthene	252		7.090	7.074	(0.963)	31130	2.74666	225.0265(QM)
22 Benzo(a)pyrene	252		7.309	7.282	(0.993)	41751	4.23413	346.8916
24 Indeno(1,2,3-cd)pyrene	276		8.067	8.035	(1.096)	35368	3.97517	325.6752(M)
25 Dibenzo(a,h)anthracene	278		8.073	8.045	(1.097)	14832	1.68201	137.8030
26 Benzo(g,h,i)perylene	276		8.265	8.222	(1.123)	39292	4.38724	359.4352

QC Flag Legend

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

Data File: 1AC15033.D

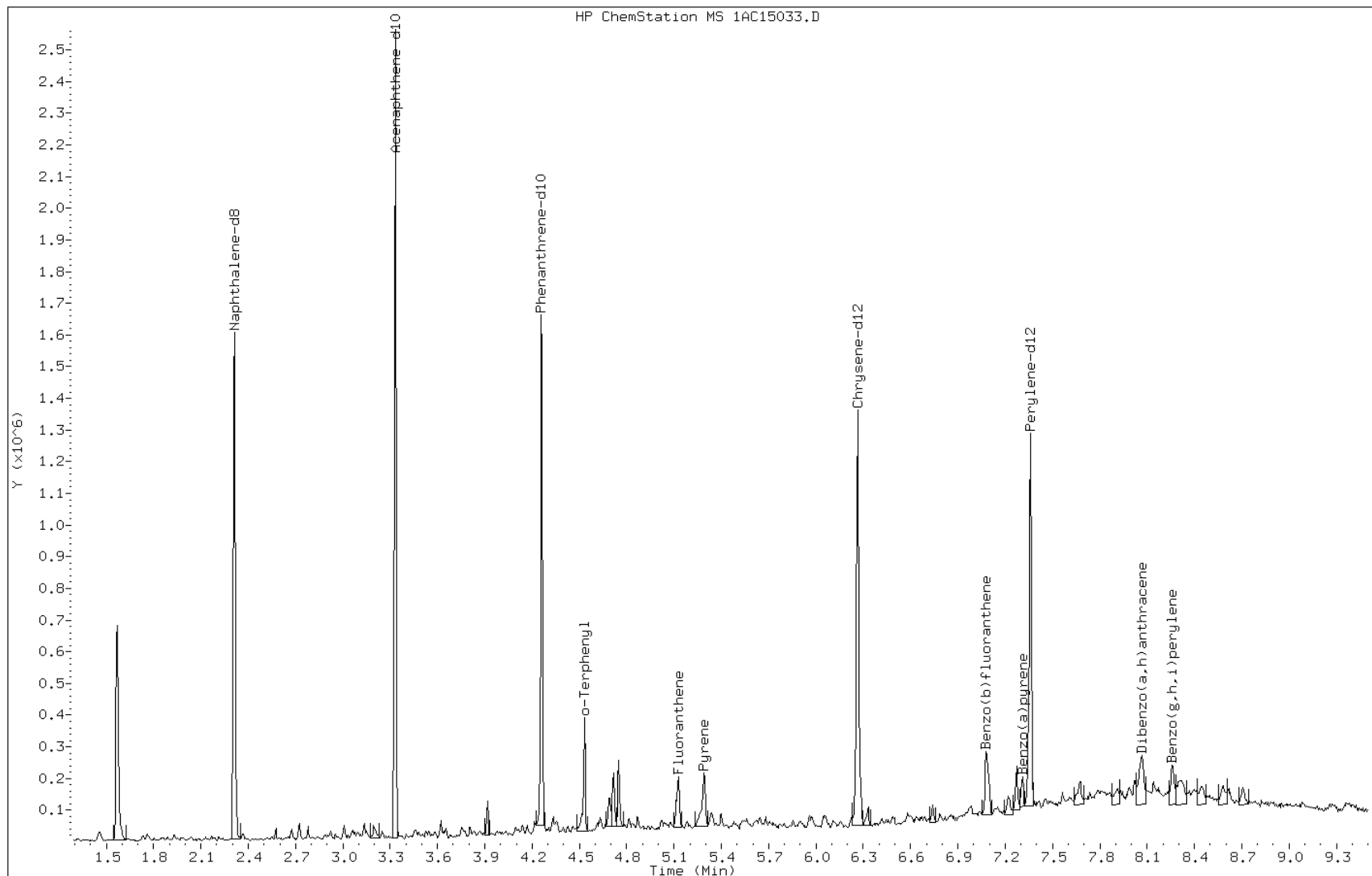
Date: 15-MAR-2013 20:51

Client ID: CV0960A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-19-a

Operator: SCC



Data File: 1AC15033.D

Date: 15-MAR-2013 20:51

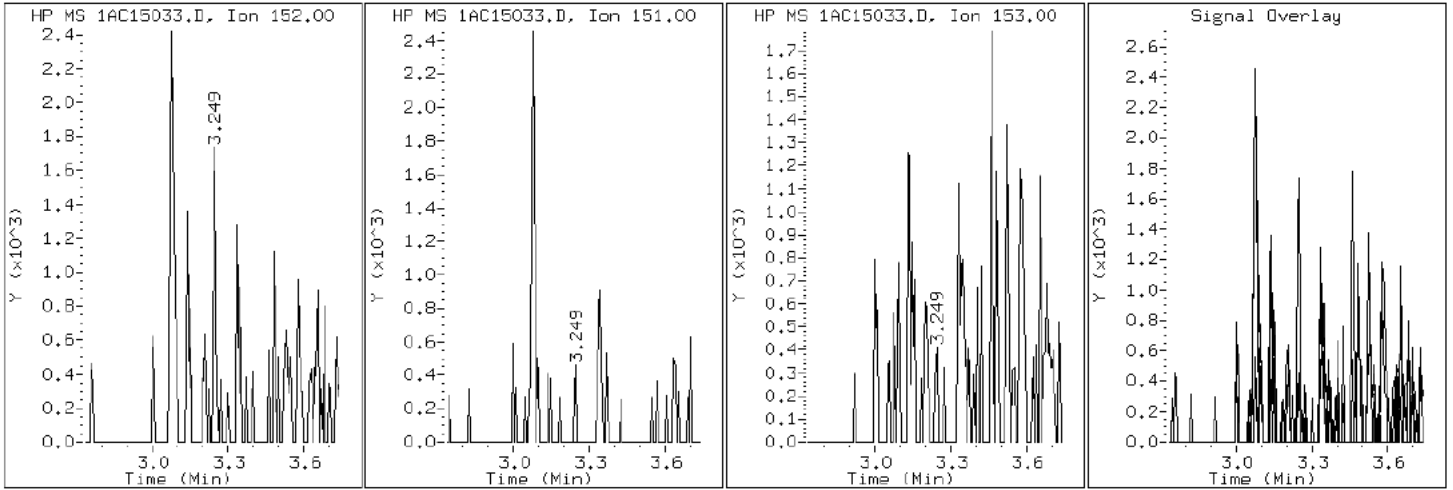
Client ID: CV0960A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-19-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15033.D

Date: 15-MAR-2013 20:51

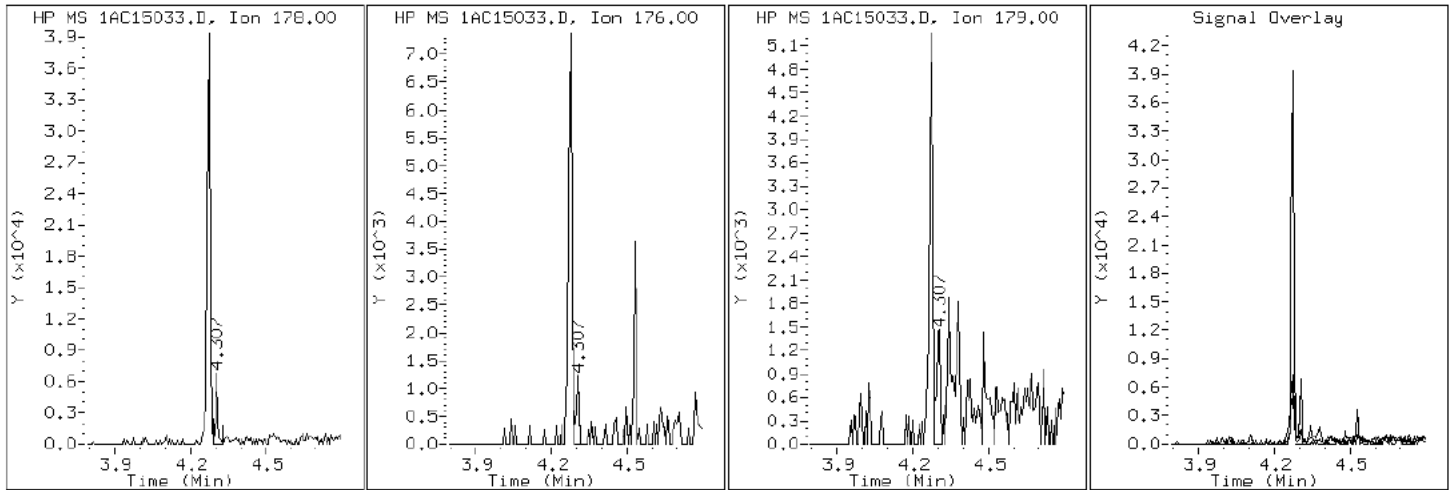
Client ID: CV0960A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-19-a

Operator: SCC

12 Anthracene



Data File: 1AC15033.D

Date: 15-MAR-2013 20:51

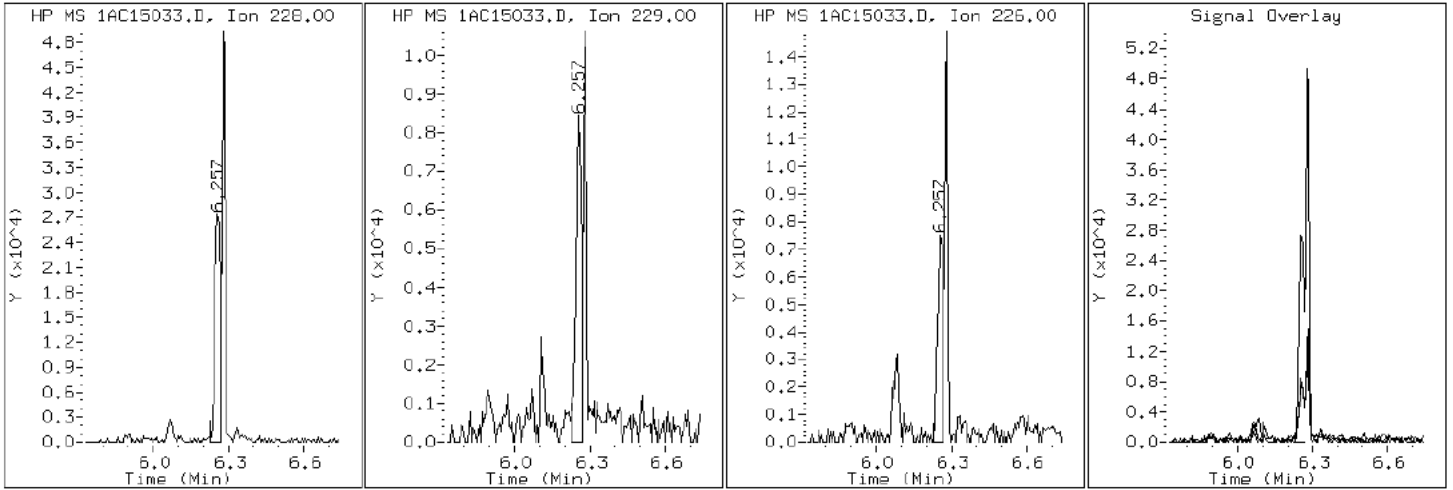
Client ID: CV0960A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-19-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15033.D

Date: 15-MAR-2013 20:51

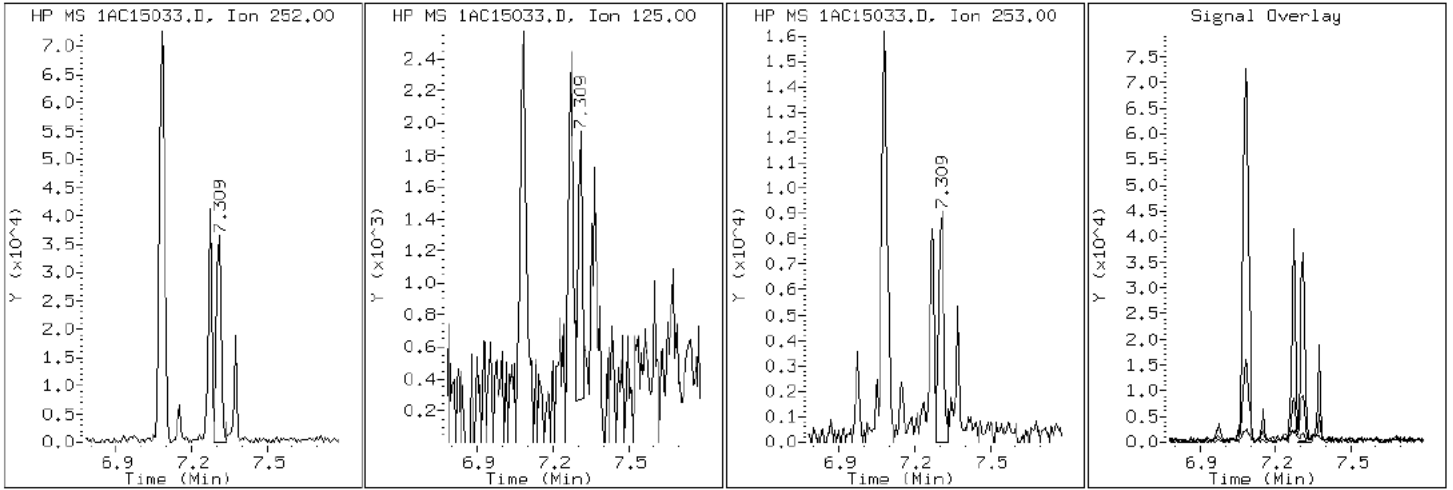
Client ID: CV0960A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-19-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15033.D

Date: 15-MAR-2013 20:51

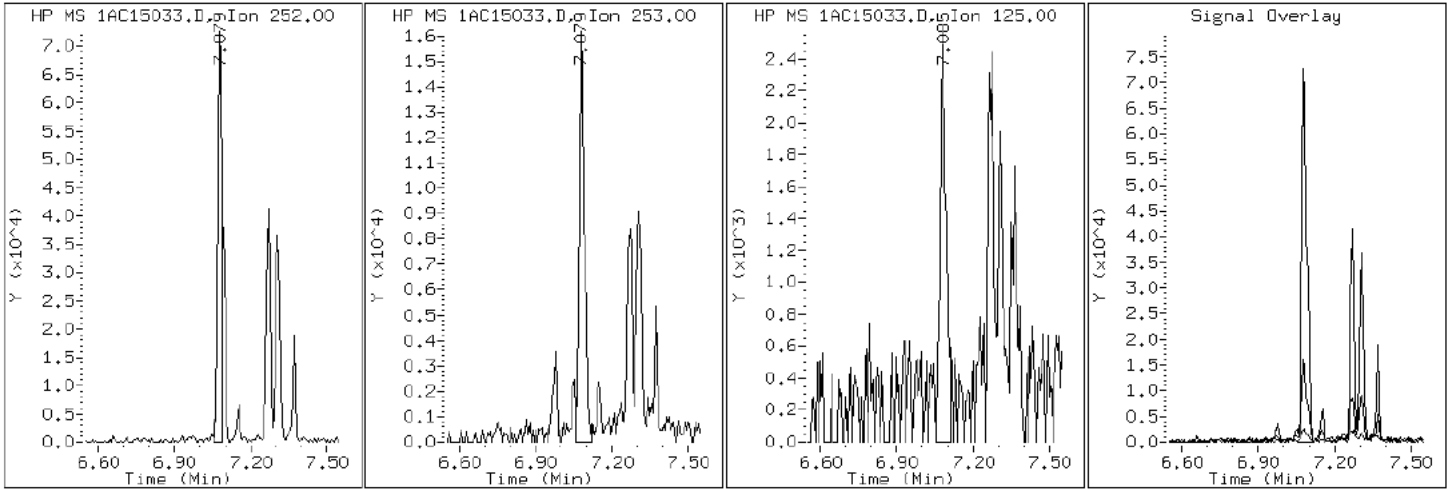
Client ID: CV0960A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-19-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15033.D

Date: 15-MAR-2013 20:51

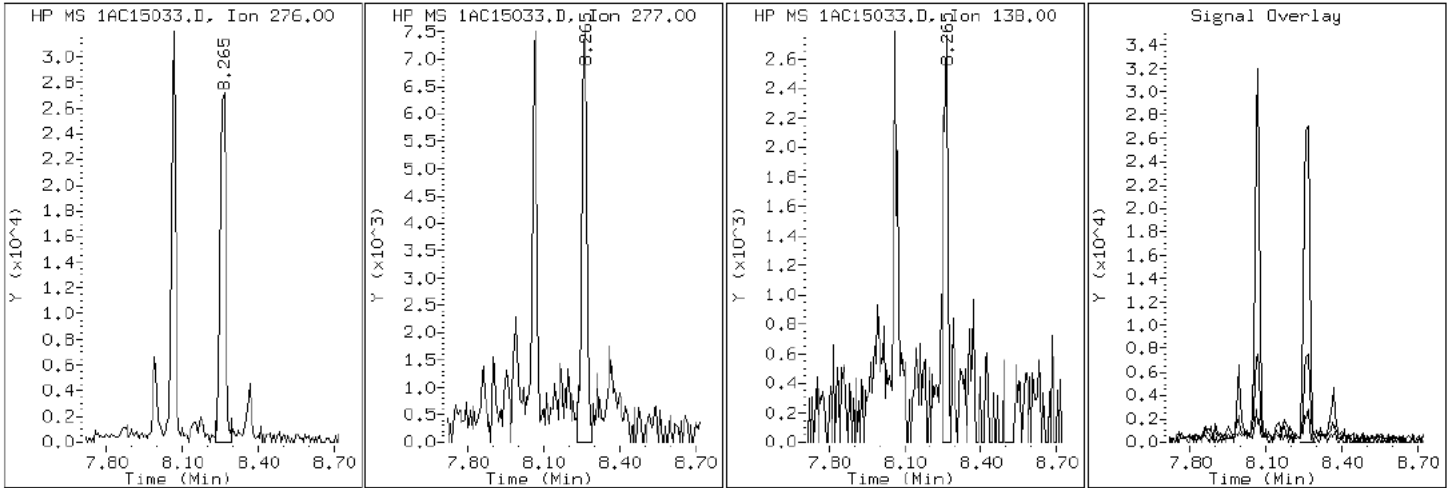
Client ID: CV0960A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-19-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15033.D

Date: 15-MAR-2013 20:51

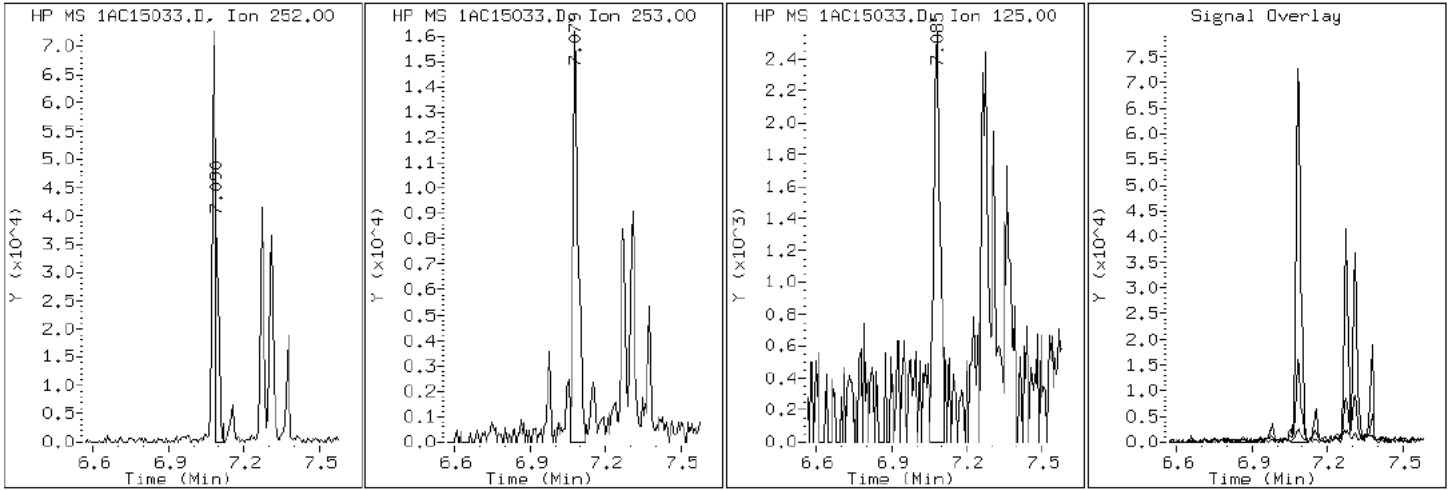
Client ID: CV0960A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-19-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15033.D

Date: 15-MAR-2013 20:51

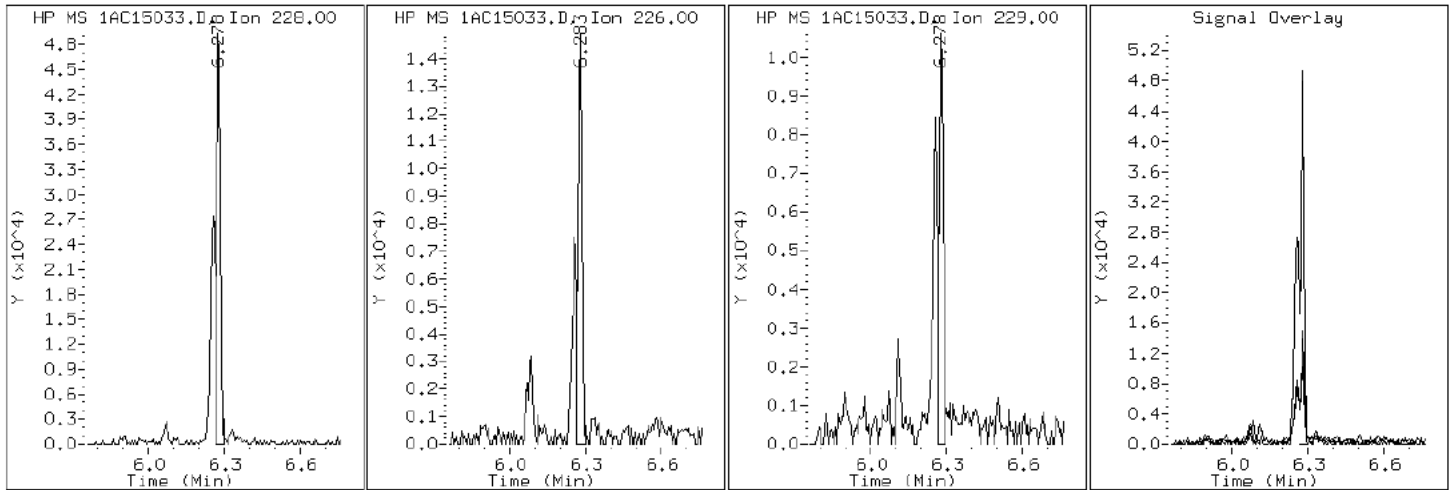
Client ID: CV0960A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-19-a

Operator: SCC

19 Chrysene



Data File: 1AC15033.D

Date: 15-MAR-2013 20:51

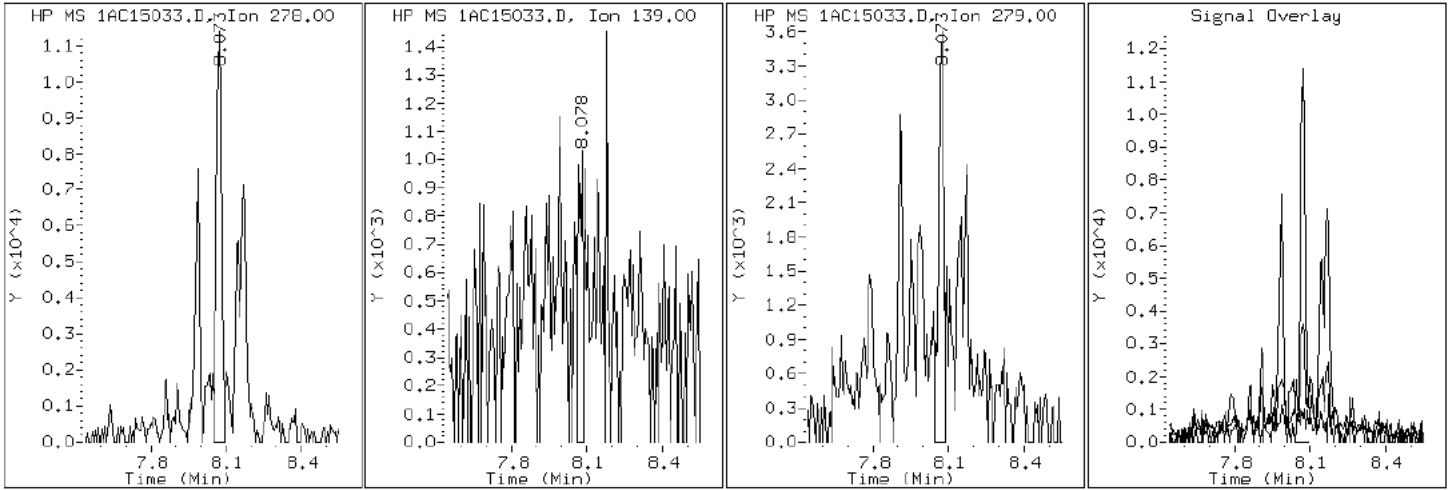
Client ID: CV0960A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-19-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC15033.D

Date: 15-MAR-2013 20:51

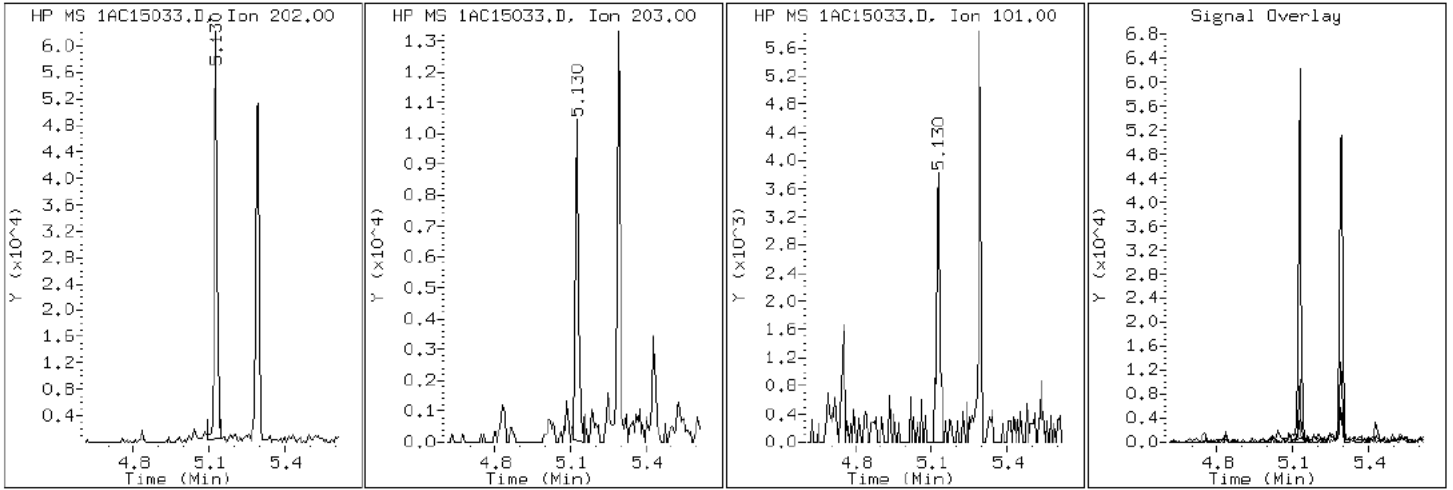
Client ID: CV0960A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-19-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15033.D

Date: 15-MAR-2013 20:51

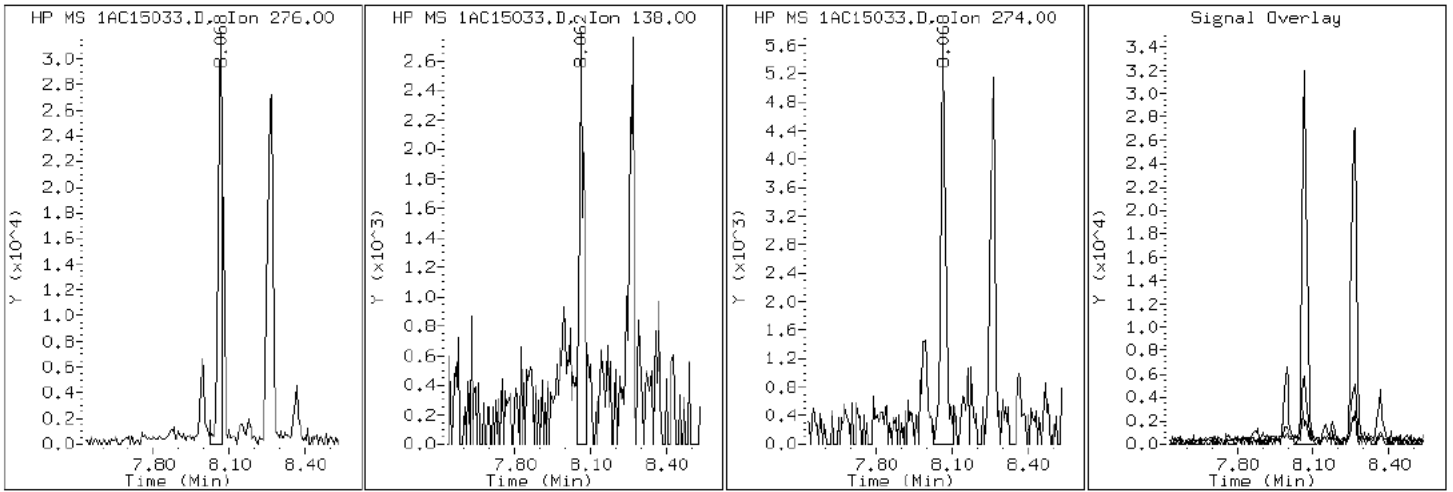
Client ID: CV0960A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-19-a

Operator: SCC

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



Data File: 1AC15033.D

Date: 15-MAR-2013 20:51

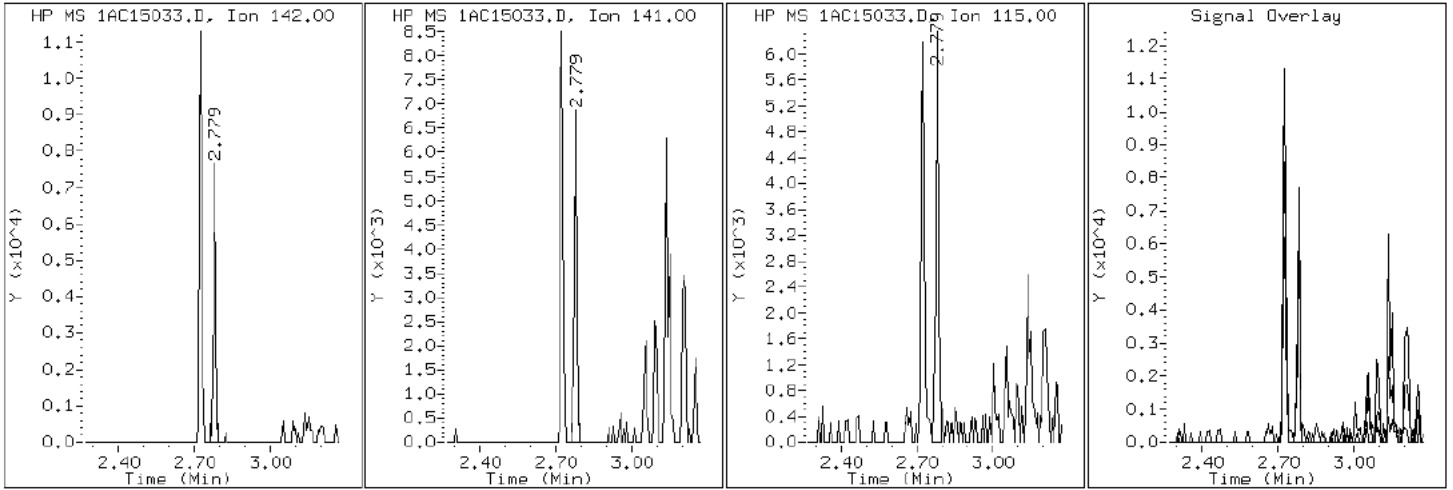
Client ID: CV0960A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-19-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15033.D

Date: 15-MAR-2013 20:51

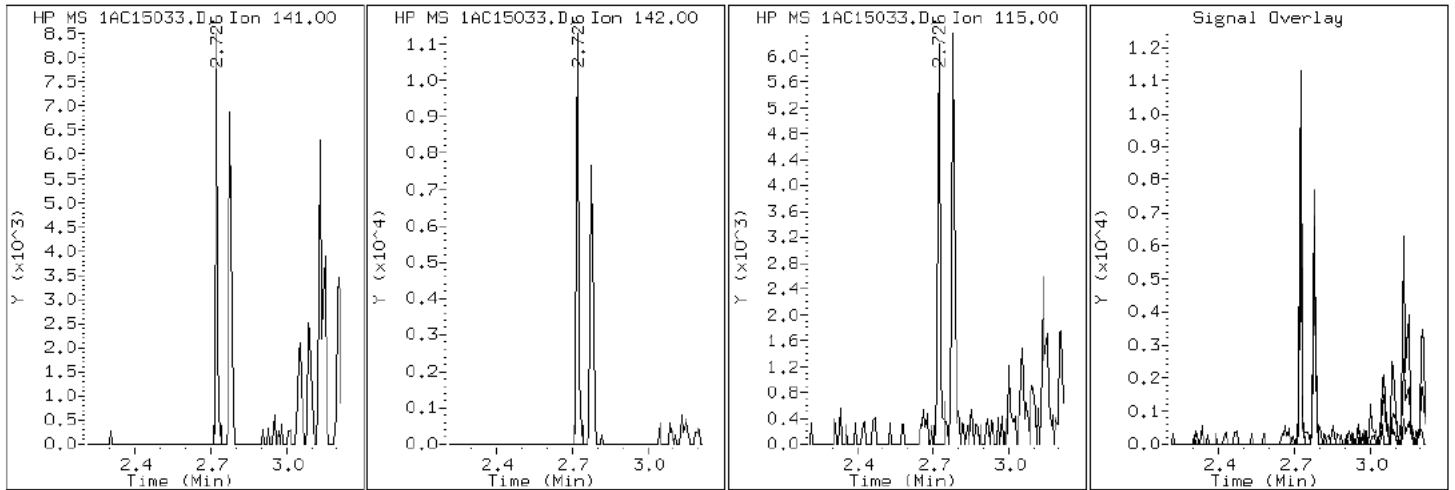
Client ID: CV0960A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-19-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15033.D

Date: 15-MAR-2013 20:51

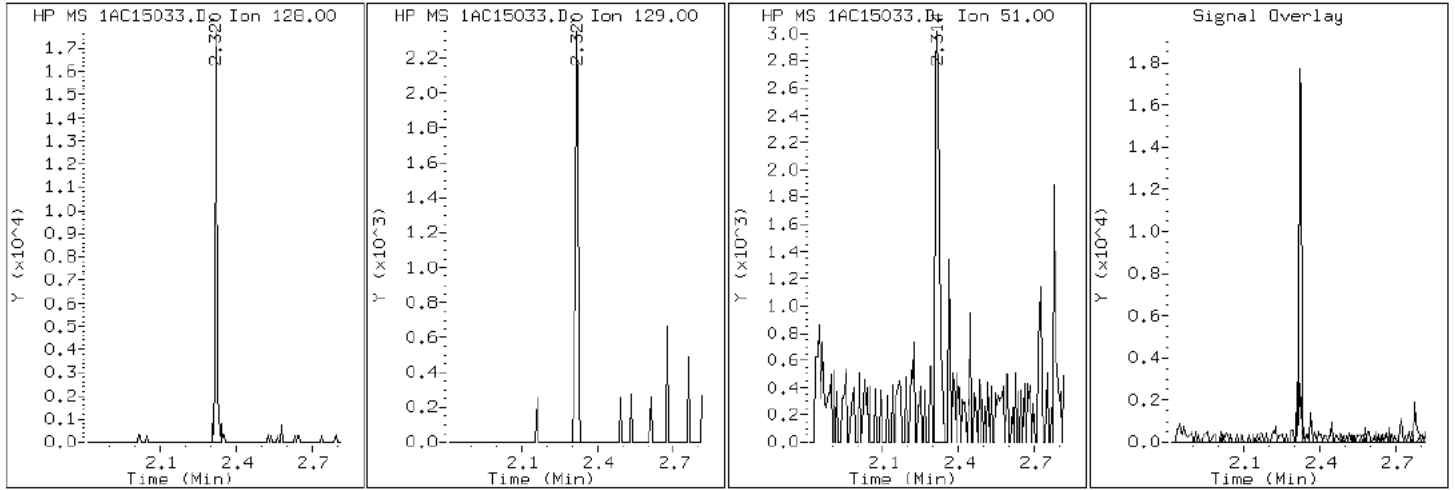
Client ID: CV0960A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-19-a

Operator: SCC

2 Naphthalene



Data File: 1AC15033.D

Date: 15-MAR-2013 20:51

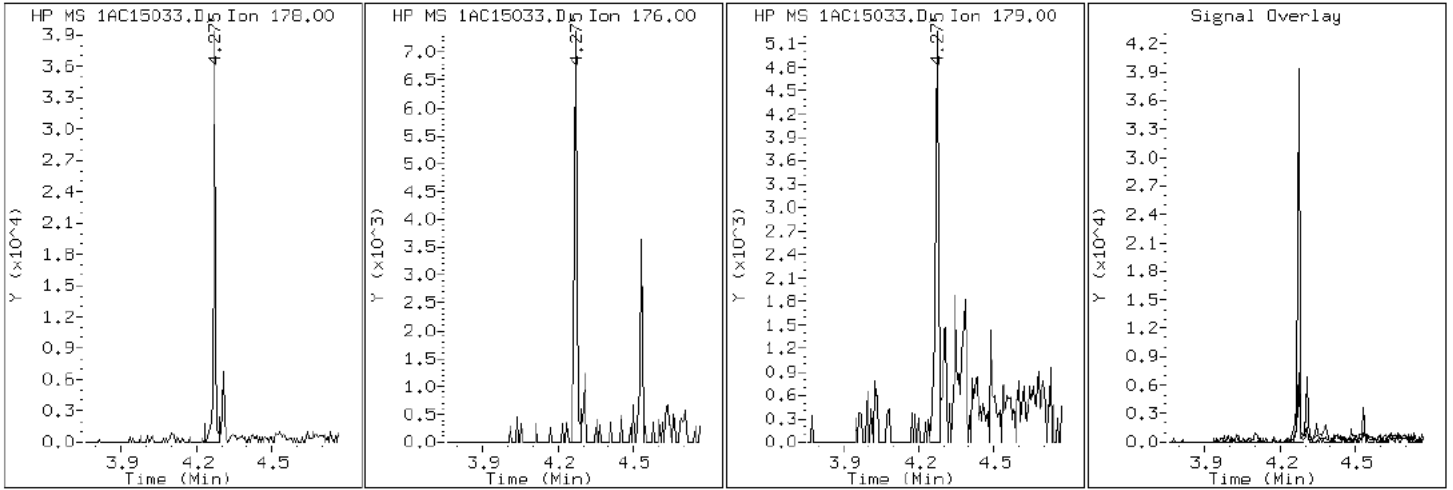
Client ID: CV0960A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-19-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15033.D

Date: 15-MAR-2013 20:51

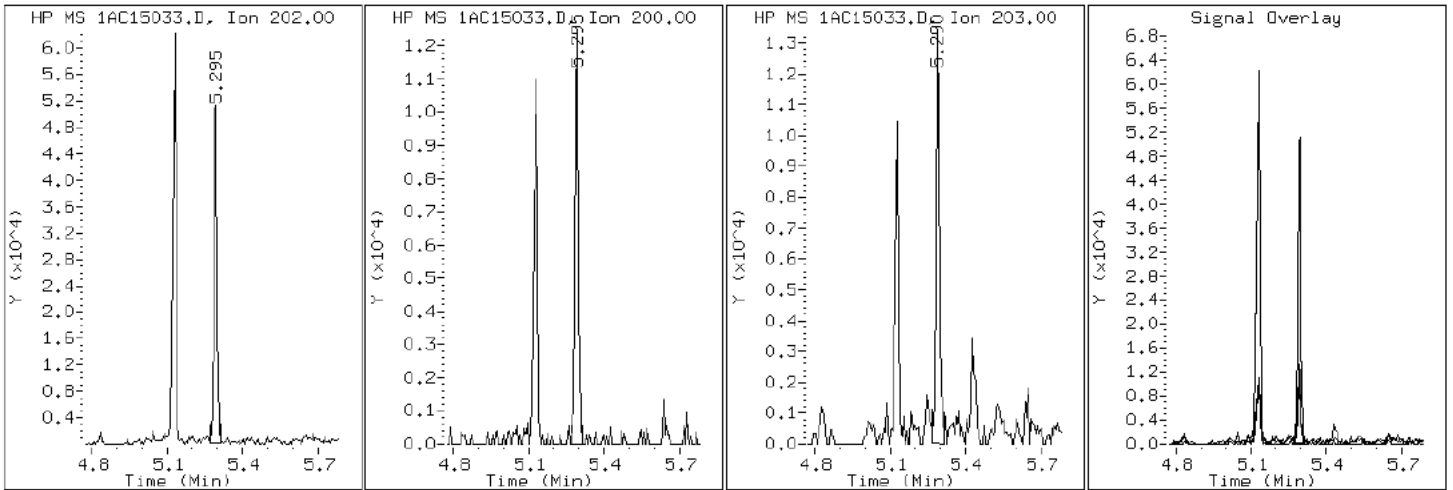
Client ID: CV0960A-CS

Instrument: BSMA5973.i

Sample Info: 680-88118-a-19-a

Operator: SCC

16 Pyrene

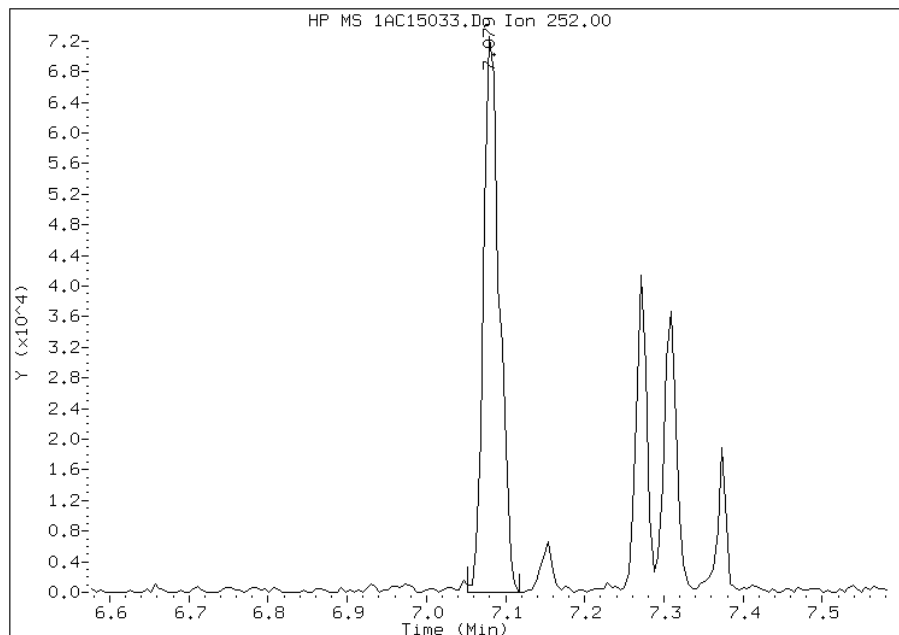


Manual Integration Report

Data File: 1AC15033.D
Inj. Date and Time: 15-MAR-2013 20:51
Instrument ID: BSMA5973.i
Client ID: CV0960A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

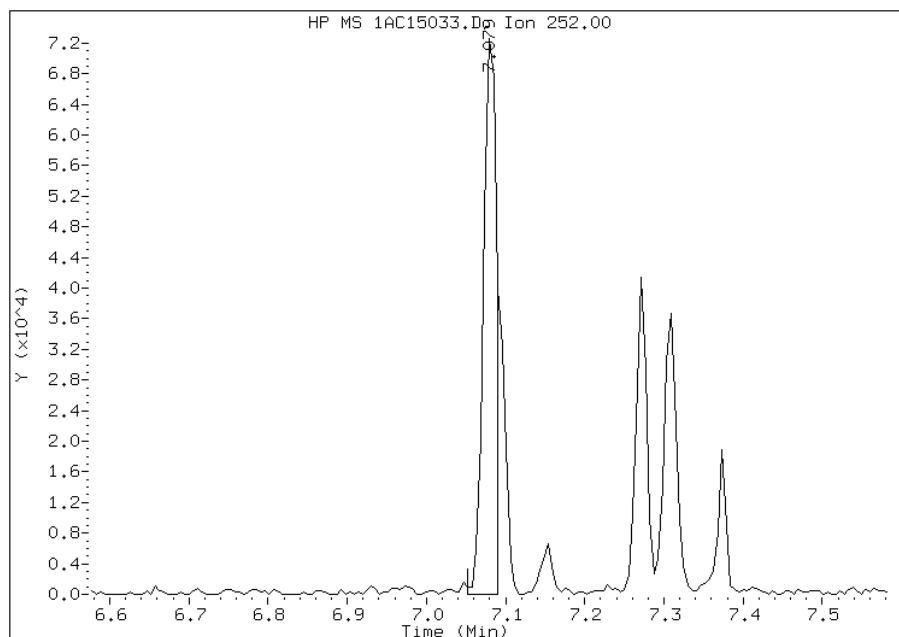
Processing Integration Results

RT: 7.08
Response: 101015
Amount: 10
Conc: 813



Manual Integration Results

RT: 7.08
Response: 82739
Amount: 8
Conc: 684



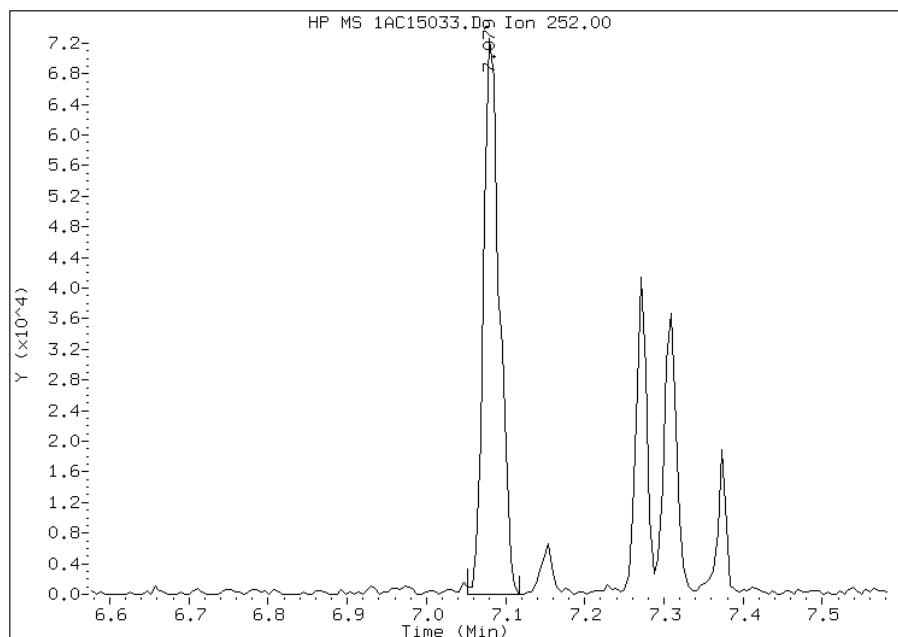
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:25
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15033.D
Inj. Date and Time: 15-MAR-2013 20:51
Instrument ID: BSMA5973.i
Client ID: CV0960A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

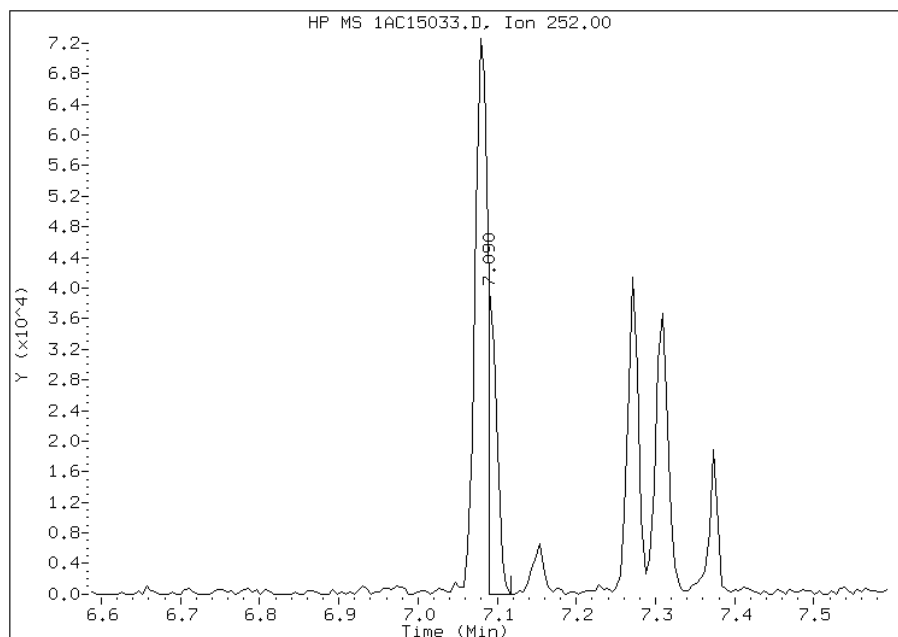
Processing Integration Results

RT: 7.08
Response: 101015
Amount: 9
Conc: 730



Manual Integration Results

RT: 7.09
Response: 31130
Amount: 3
Conc: 225



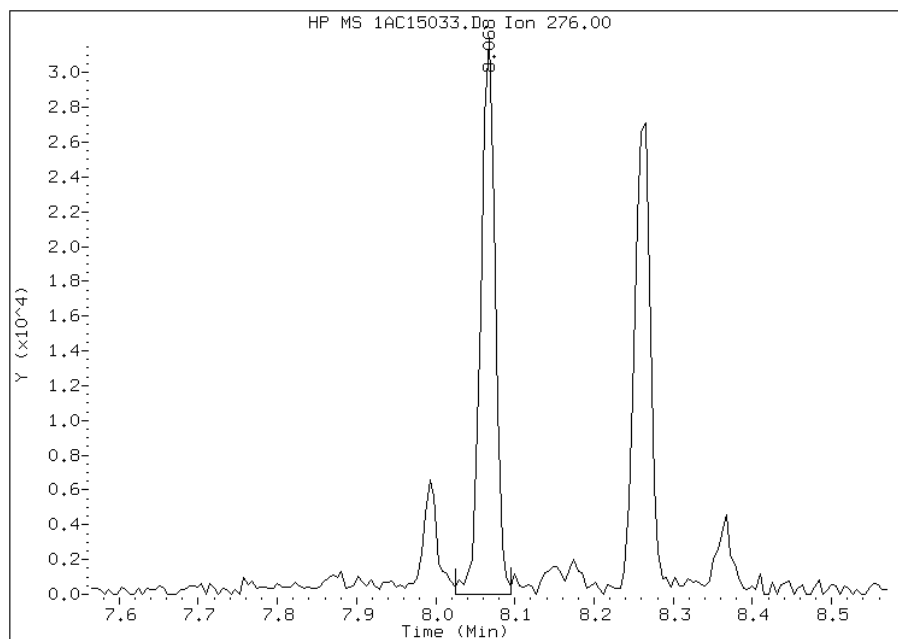
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:26
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15033.D
Inj. Date and Time: 15-MAR-2013 20:51
Instrument ID: BSMA5973.i
Client ID: CV0960A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

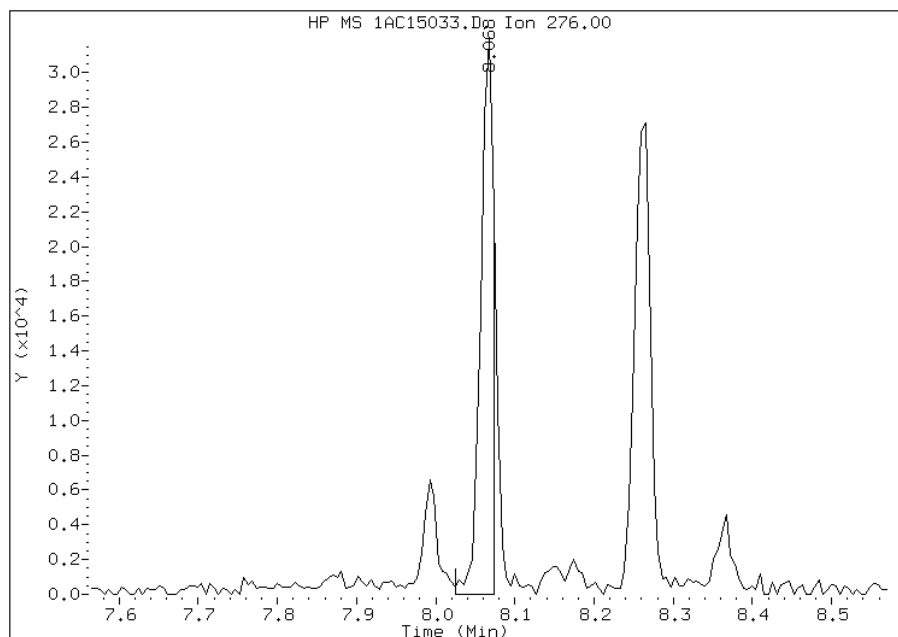
Processing Integration Results

RT: 8.07
Response: 40212
Amount: 5
Conc: 370



Manual Integration Results

RT: 8.07
Response: 35368
Amount: 4
Conc: 326



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: FM0116A-CS-SP Lab Sample ID: 680-88118-20
 Matrix: Solid Lab File ID: 1AC15034.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 10:37
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 14.93(g) Date Analyzed: 03/15/2013 21:06
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 30.6 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	580	U	580	120
208-96-8	Acenaphthylene	170	J	230	29
120-12-7	Anthracene	180		49	24
56-55-3	Benzo[a]anthracene	770		46	23
50-32-8	Benzo[a]pyrene	550		60	30
205-99-2	Benzo[b]fluoranthene	1200		71	35
191-24-2	Benzo[g,h,i]perylene	400		120	25
207-08-9	Benzo[k]fluoranthene	450		46	21
218-01-9	Chrysene	800		52	26
53-70-3	Dibenz(a,h)anthracene	120		120	24
206-44-0	Fluoranthene	1300		120	23
86-73-7	Fluorene	120	U	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	350		120	41
90-12-0	1-Methylnaphthalene	170	J	230	25
91-57-6	2-Methylnaphthalene	610		230	41
91-20-3	Naphthalene	230		230	25
85-01-8	Phenanthrene	680		46	23
129-00-0	Pyrene	1100		120	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15034.D
 Lab Smp Id: 680-88118-A-20-A Client Smp ID: FM0116A-CS-SP
 Inj Date : 15-MAR-2013 21:06
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-20-a
 Misc Info : 680-88118-A-20-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 34
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	30.603	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.309	2.303	(1.000)	381522	40.0000	
* 6 Acenaphthene-d10	164		3.335	3.324	(1.000)	290227	40.0000	
* 10 Phenanthrene-d10	188		4.259	4.248	(1.000)	391941	40.0000	
\$ 14 o-Terphenyl	230		4.531	4.526	(1.064)	10801	2.20157	849.9524
* 18 Chrysene-d12	240		6.262	6.246	(1.000)	312198	40.0000	
* 23 Perylene-d12	264		7.363	7.330	(1.000)	377639	40.0000	(H)
2 Naphthalene	128		2.320	2.314	(1.005)	5301	0.60140	232.1802
3 2-Methylnaphthalene	141		2.726	2.715	(1.180)	3724	1.56958	605.9612
4 1-Methylnaphthalene	142		2.779	2.773	(1.204)	2245	0.44293	171.0016
5 Acenaphthylene	152		3.249	3.238	(0.974)	2734	0.43017	166.0725
11 Phenanthrene	178		4.275	4.264	(1.004)	17447	1.75636	678.0704
12 Anthracene	178		4.307	4.296	(1.011)	4515	0.46875	180.9697
13 Carbazole	167		4.473	4.456	(1.050)	2140	0.25349	97.8635
15 Fluoranthene	202		5.130	5.113	(1.204)	31994	3.25827	1257.9078

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
16 Pyrene	202		5.290	5.279	(0.845)	25124	2.80670	1083.5733
17 Benzo(a)anthracene	228		6.257	6.235	(0.999)	16499	1.99079	768.5786
19 Chrysene	228		6.278	6.262	(1.003)	16833	2.08173	803.6883
20 Benzo(b)fluoranthene	252		7.080	7.052	(0.962)	19017	3.03023	1169.8696(MH)
21 Benzo(k)fluoranthene	252		7.085	7.074	(0.962)	11802	1.15859	447.2945(MH)
22 Benzo(a)pyrene	252		7.309	7.282	(0.993)	12690	1.43189	552.8048(H)
24 Indeno(1,2,3-cd)pyrene	276		8.063	8.035	(1.095)	7313	0.91451	353.0637(MH)
25 Dibenzo(a,h)anthracene	278		8.073	8.045	(1.096)	2510	0.31670	122.2689(QH)
26 Benzo(g,h,i)perylene	276		8.260	8.222	(1.122)	8417	1.04567	403.6985(H)

QC Flag Legend

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

Data File: 1AC15034.D

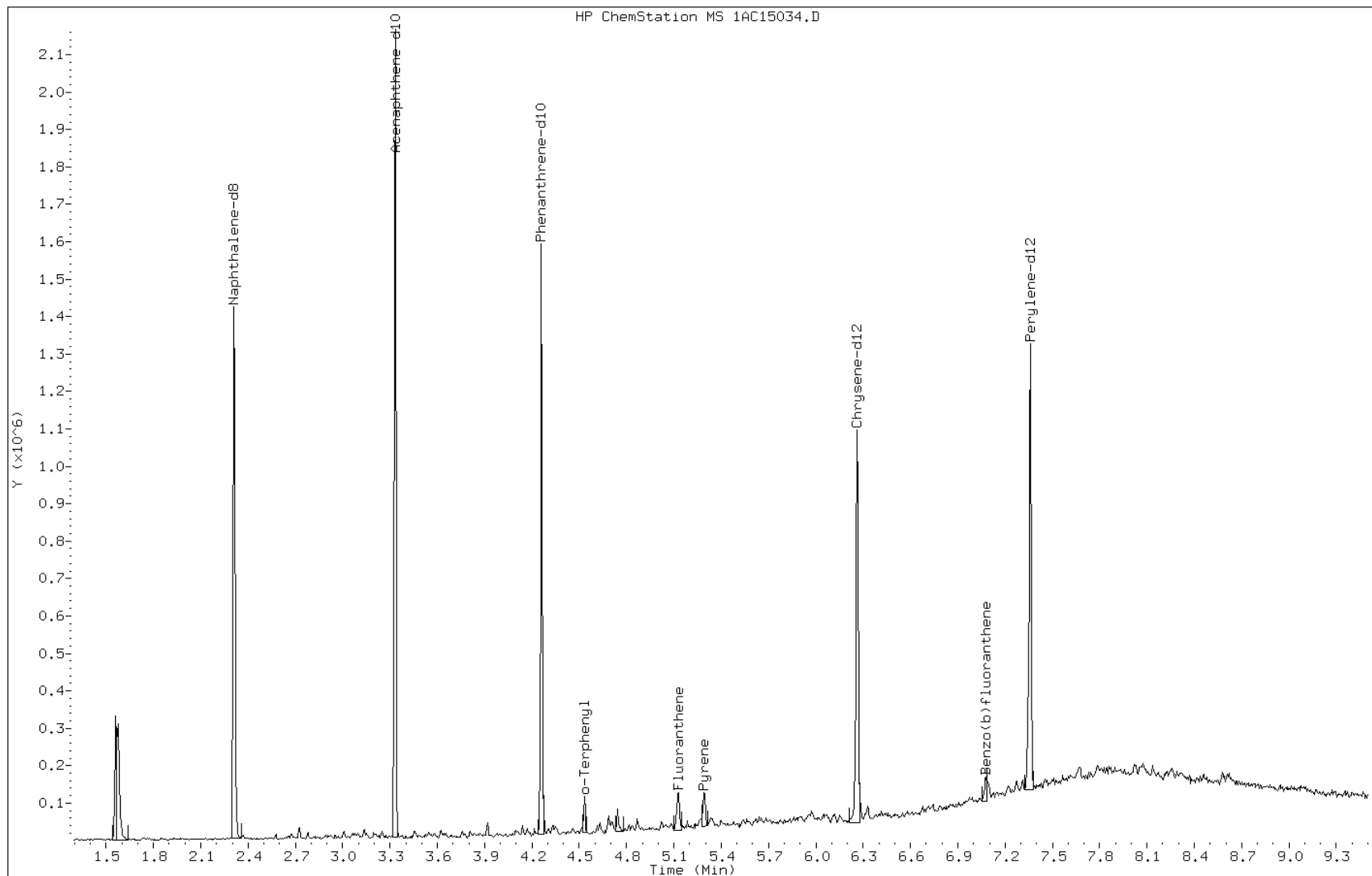
Date: 15-MAR-2013 21:06

Client ID: FM0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-20-a

Operator: SCC



Data File: 1AC15034.D

Date: 15-MAR-2013 21:06

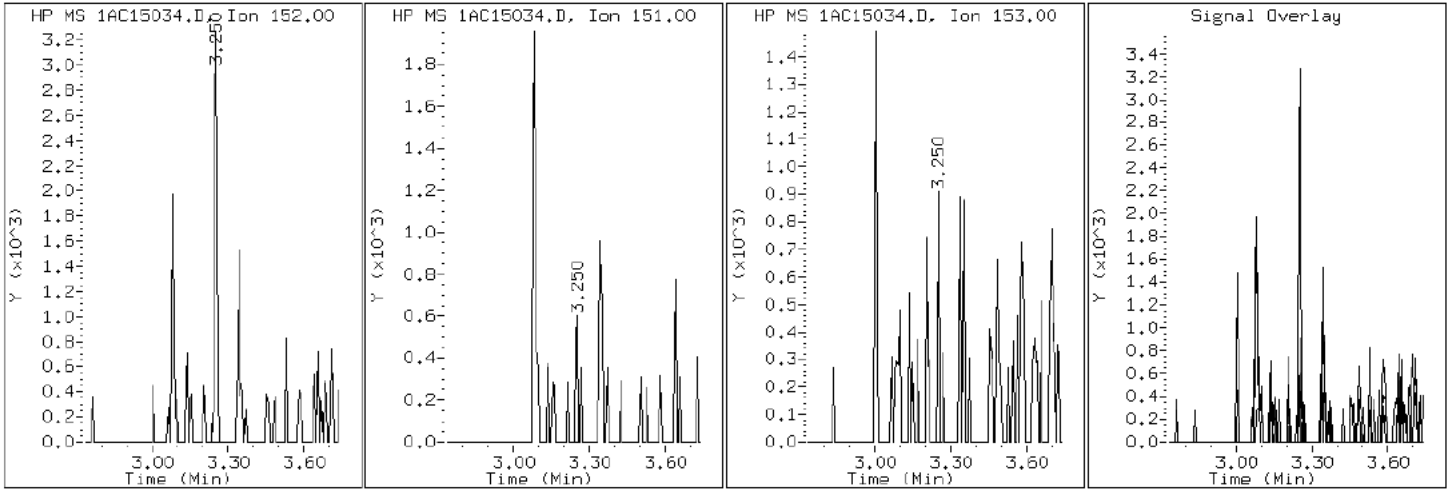
Client ID: FM0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-20-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC15034.D

Date: 15-MAR-2013 21:06

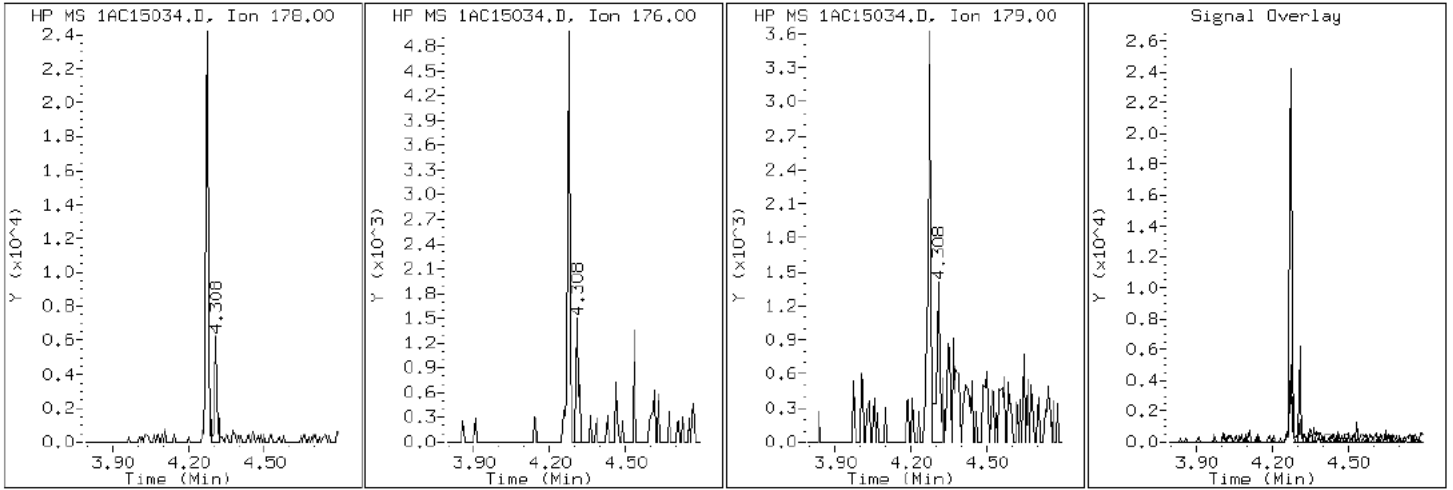
Client ID: FM0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-20-a

Operator: SCC

12 Anthracene



Data File: 1AC15034.D

Date: 15-MAR-2013 21:06

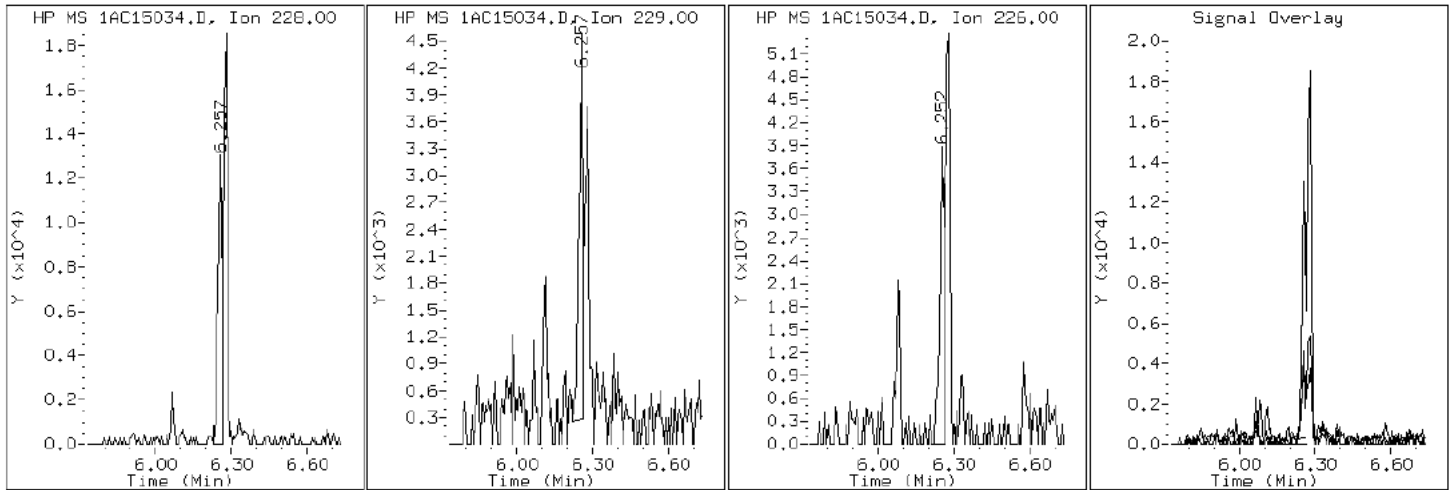
Client ID: FM0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-20-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC15034.D

Date: 15-MAR-2013 21:06

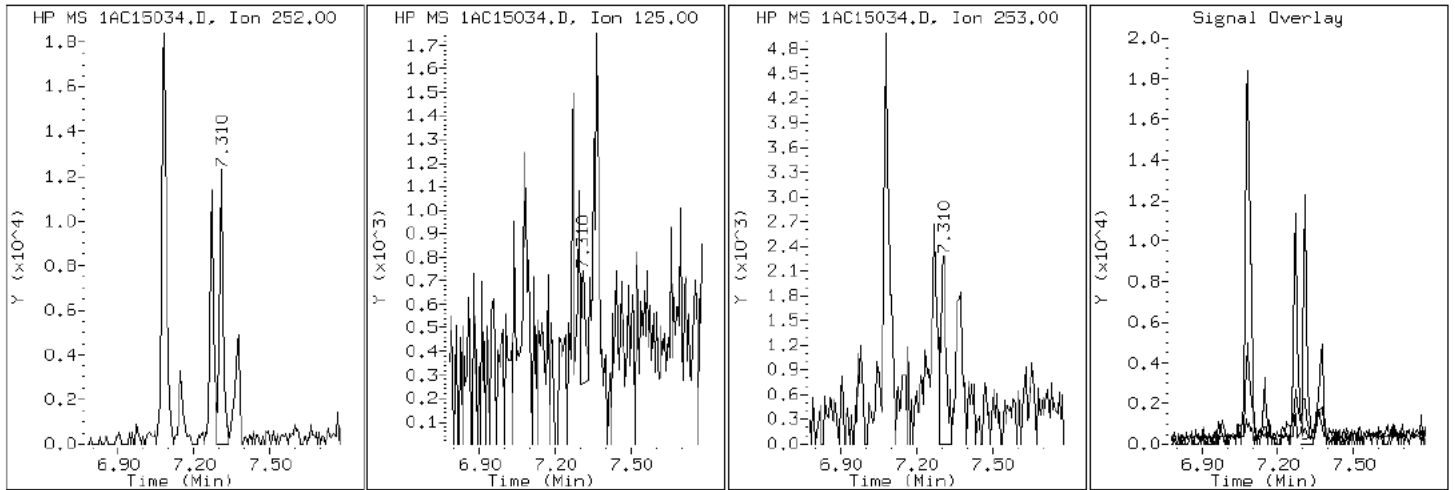
Client ID: FM0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-20-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC15034.D

Date: 15-MAR-2013 21:06

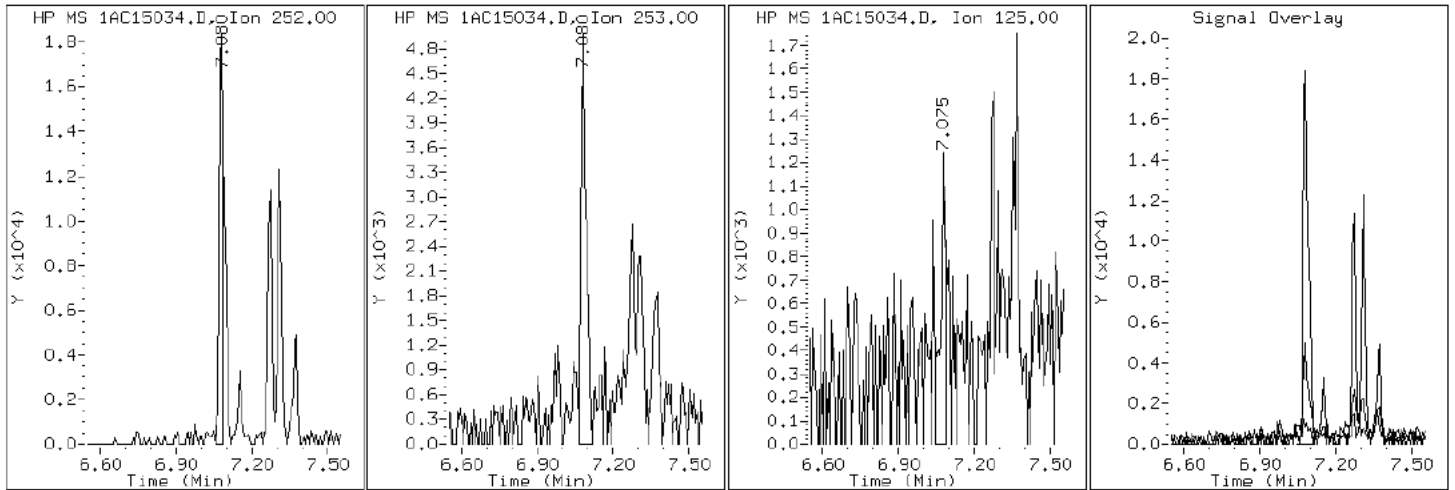
Client ID: FM0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-20-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC15034.D

Date: 15-MAR-2013 21:06

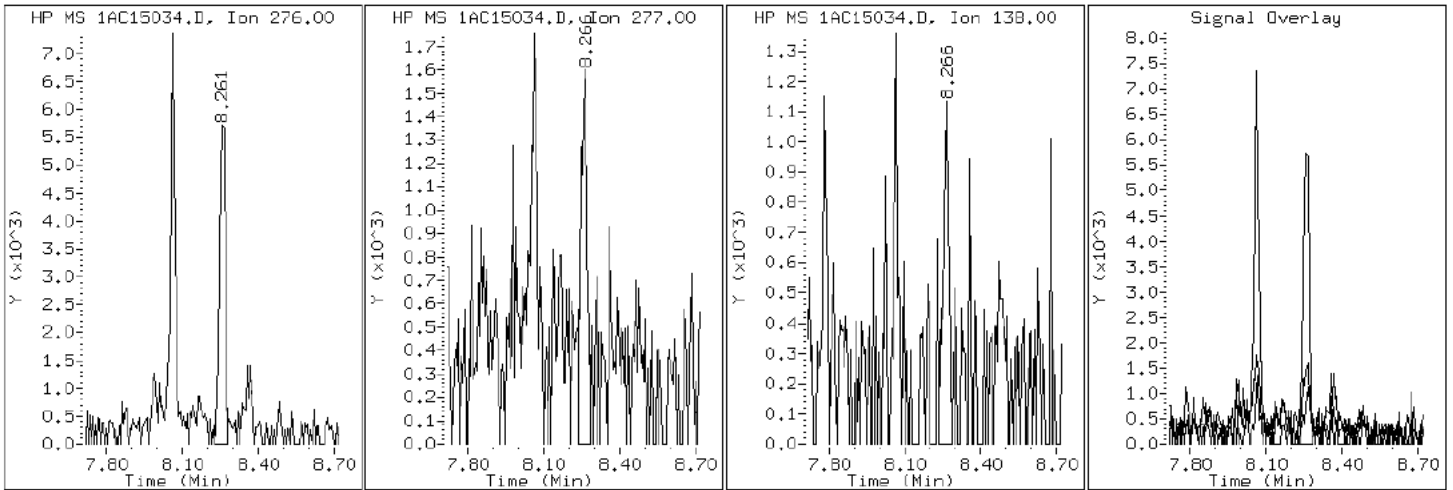
Client ID: FM0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-20-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC15034.D

Date: 15-MAR-2013 21:06

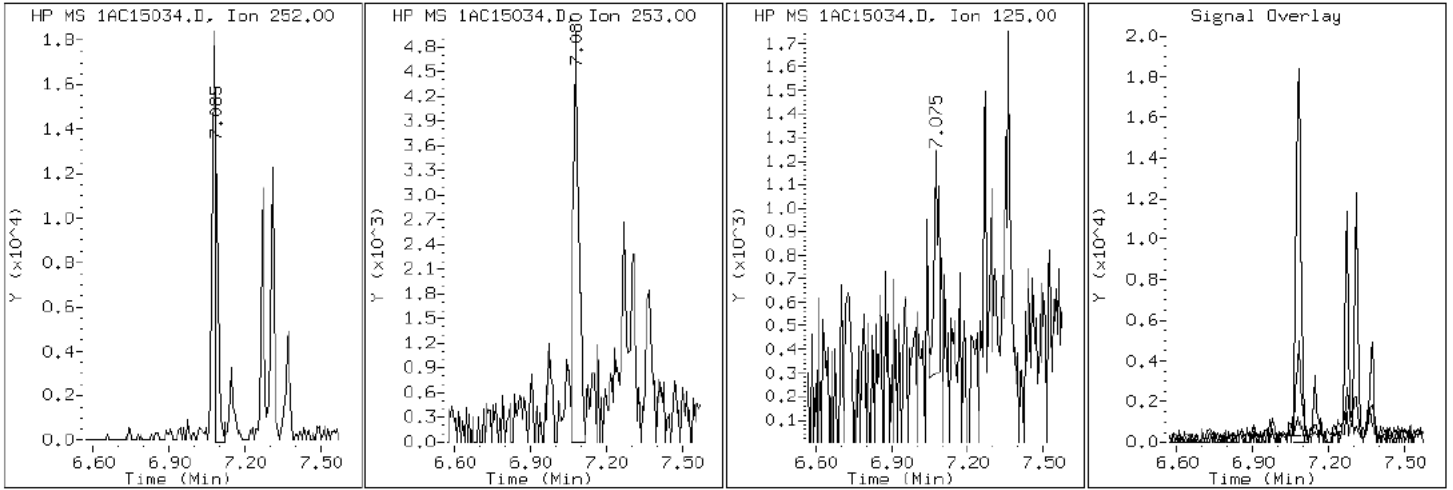
Client ID: FM0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-20-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC15034.D

Date: 15-MAR-2013 21:06

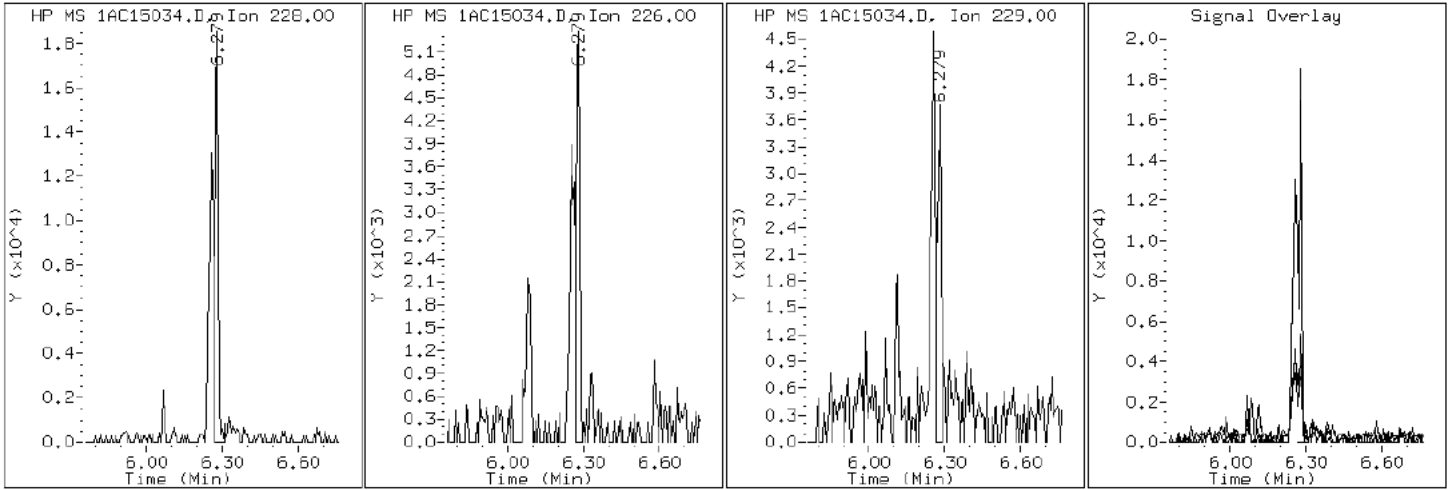
Client ID: FM0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-20-a

Operator: SCC

19 Chrysene



Data File: 1AC15034.D

Date: 15-MAR-2013 21:06

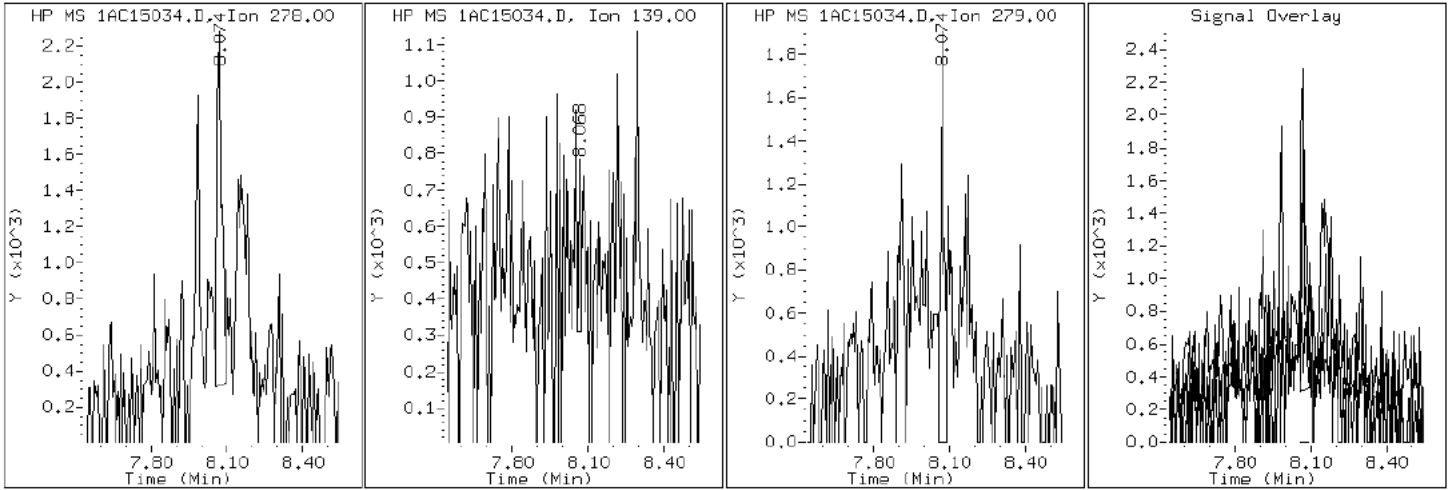
Client ID: FM0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-20-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC15034.D

Date: 15-MAR-2013 21:06

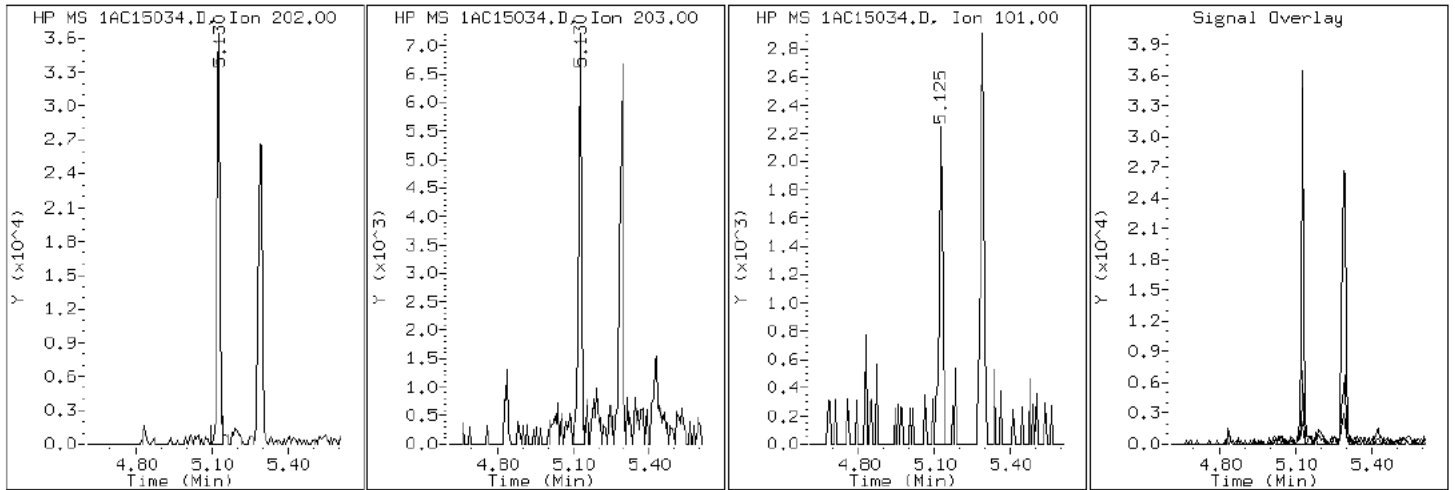
Client ID: FM0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-20-a

Operator: SCC

15 Fluoranthene



Data File: 1AC15034.D

Date: 15-MAR-2013 21:06

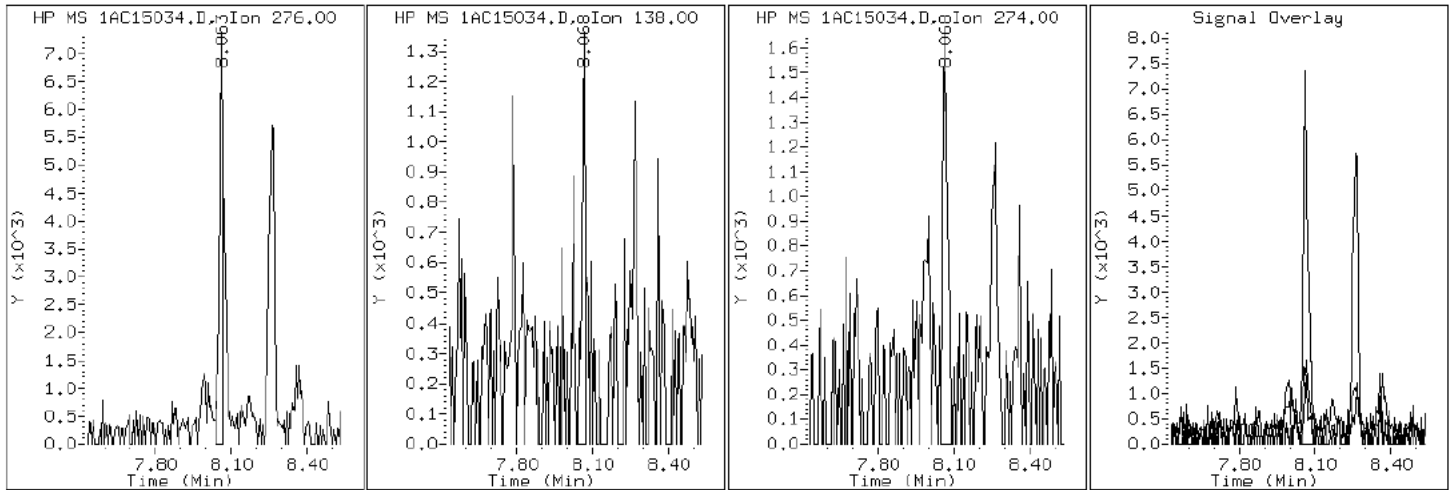
Client ID: FM0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-20-a

Operator: SCC

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



Data File: 1AC15034.D

Date: 15-MAR-2013 21:06

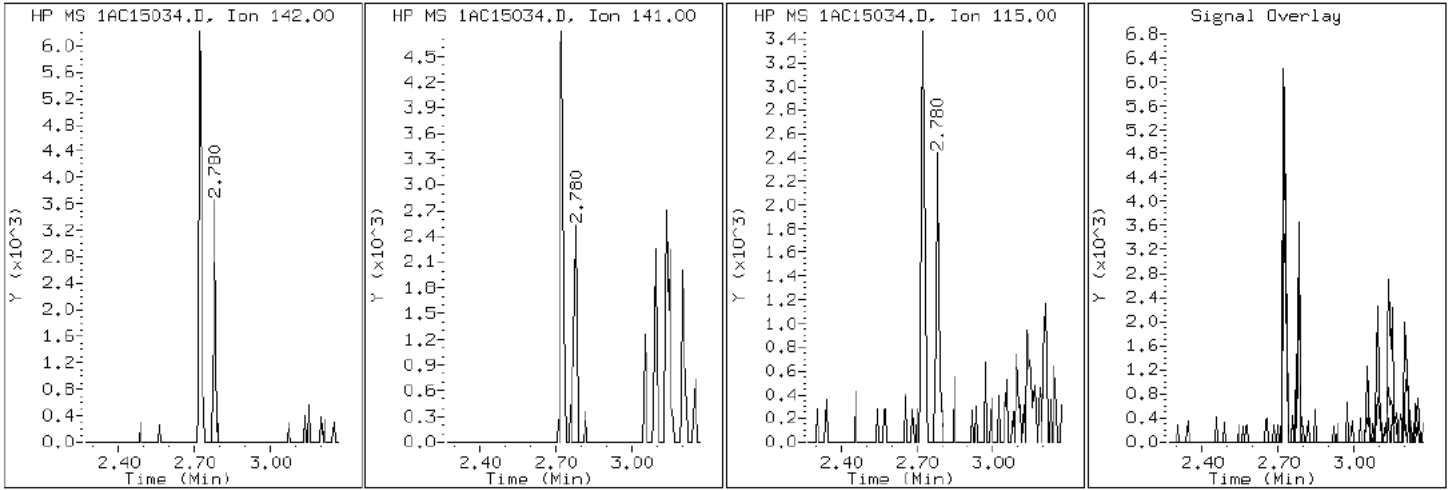
Client ID: FM0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-20-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC15034.D

Date: 15-MAR-2013 21:06

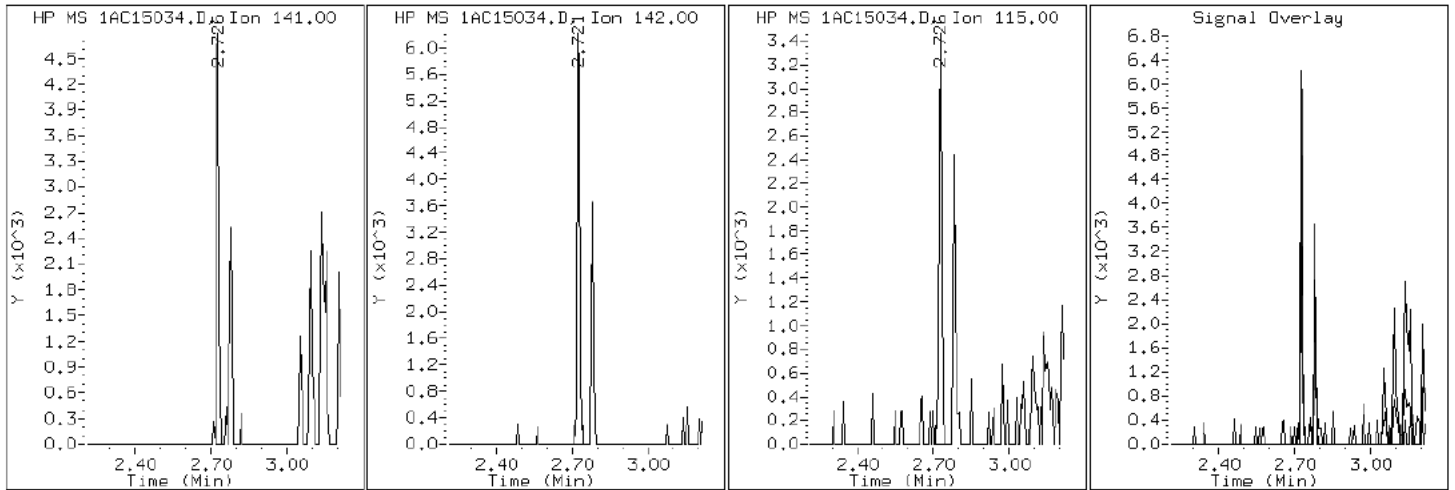
Client ID: FM0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-20-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC15034.D

Date: 15-MAR-2013 21:06

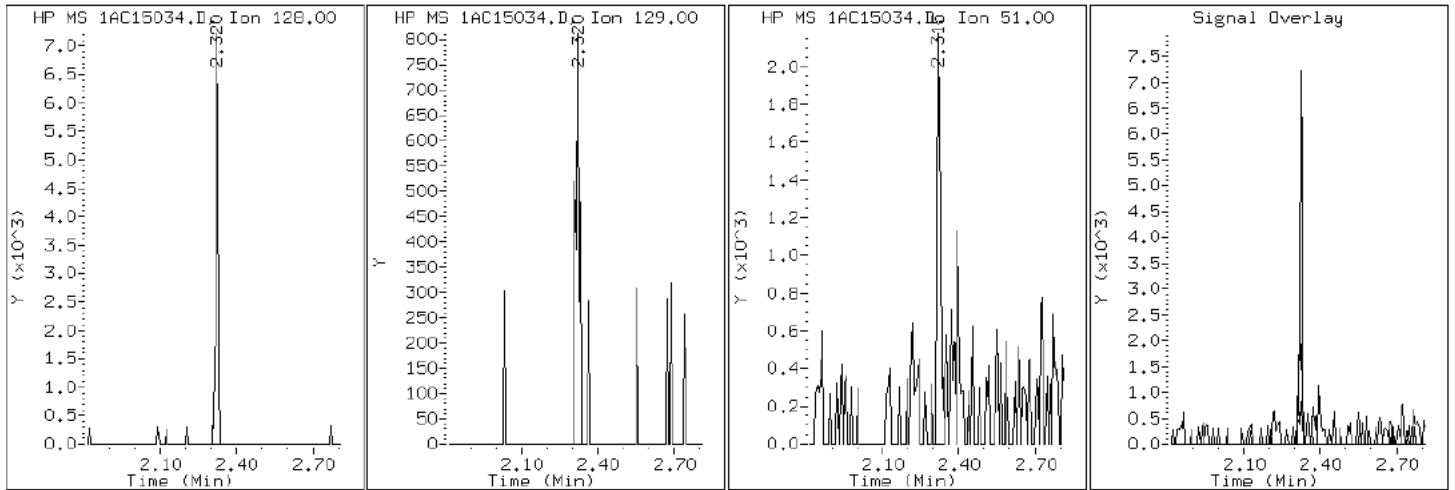
Client ID: FM0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-20-a

Operator: SCC

2 Naphthalene



Data File: 1AC15034.D

Date: 15-MAR-2013 21:06

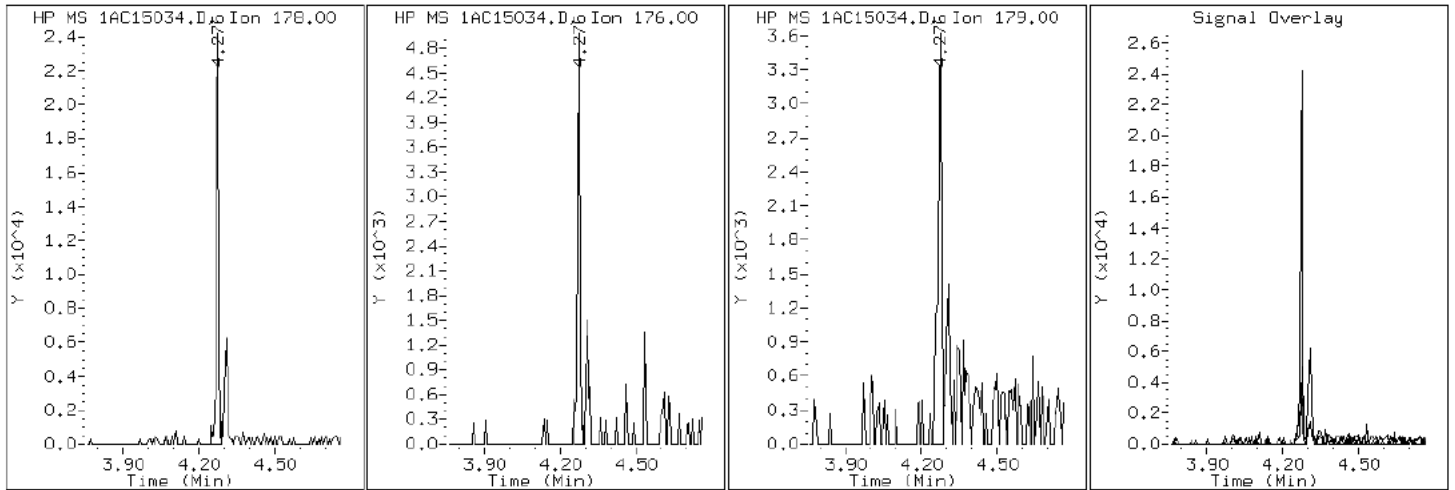
Client ID: FM0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-20-a

Operator: SCC

11 Phenanthrene



Data File: 1AC15034.D

Date: 15-MAR-2013 21:06

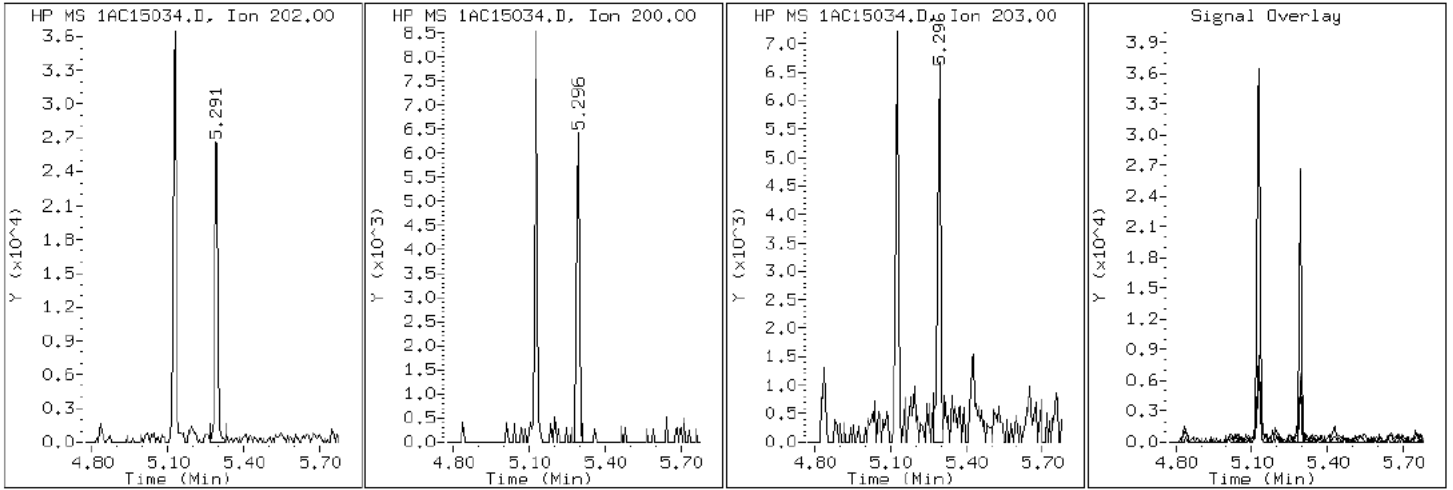
Client ID: FM0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88118-a-20-a

Operator: SCC

16 Pyrene

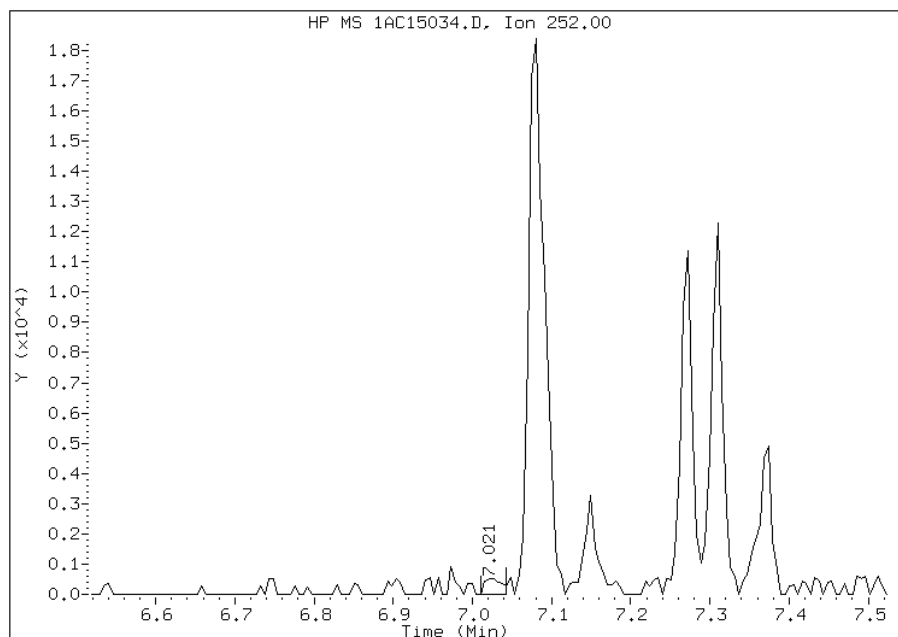


Manual Integration Report

Data File: 1AC15034.D
Inj. Date and Time: 15-MAR-2013 21:06
Instrument ID: BSMA5973.i
Client ID: FM0116A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

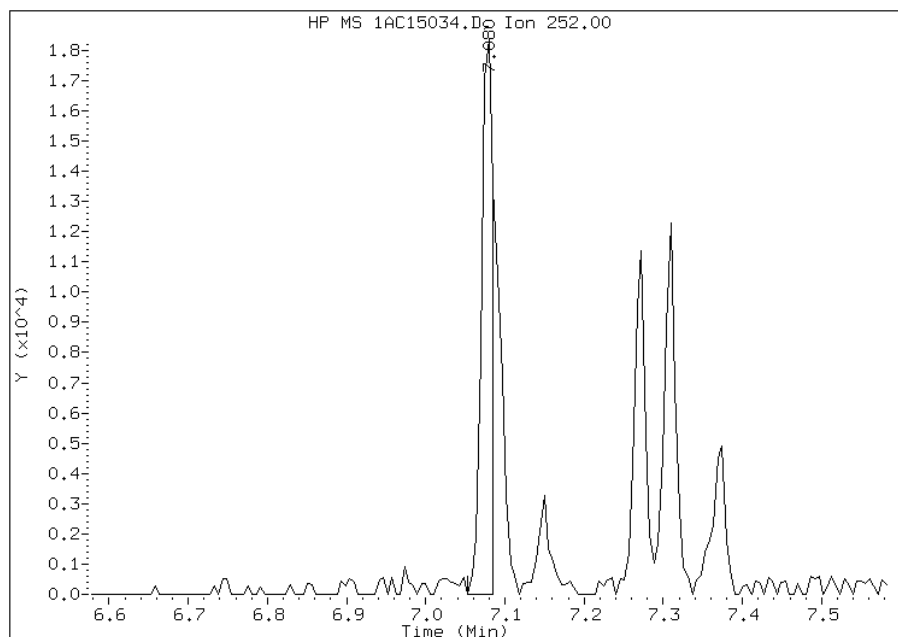
Processing Integration Results

RT: 7.02
Response: 802
Amount: 1
Conc: 494



Manual Integration Results

RT: 7.08
Response: 19017
Amount: 3
Conc: 1170



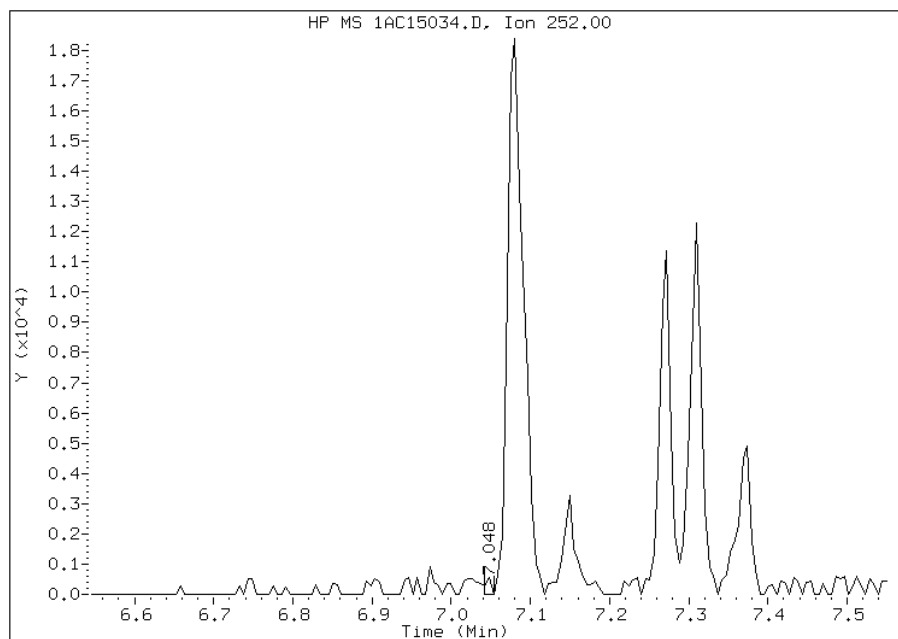
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC15034.D
Inj. Date and Time: 15-MAR-2013 21:06
Instrument ID: BSMA5973.i
Client ID: FM0116A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

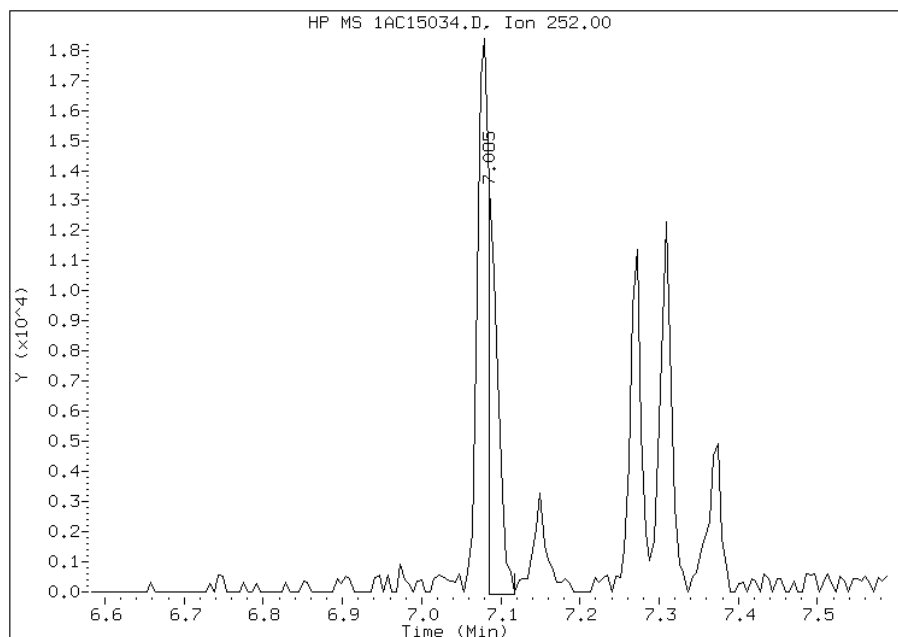
Processing Integration Results

RT: 7.05
Response: 277
Amount: 0
Conc: 10



Manual Integration Results

RT: 7.09
Response: 11802
Amount: 1
Conc: 447



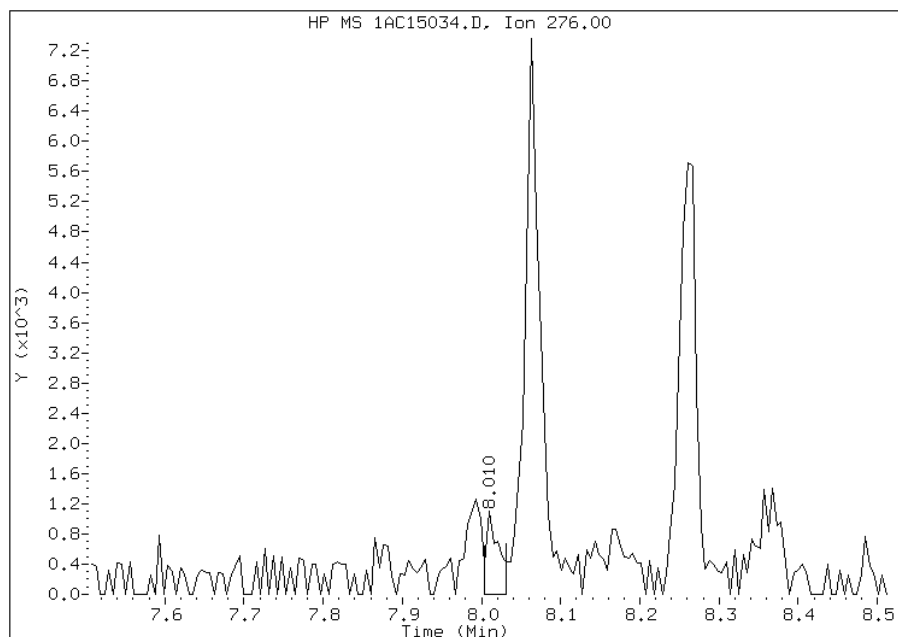
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15034.D
Inj. Date and Time: 15-MAR-2013 21:06
Instrument ID: BSMA5973.i
Client ID: FM0116A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

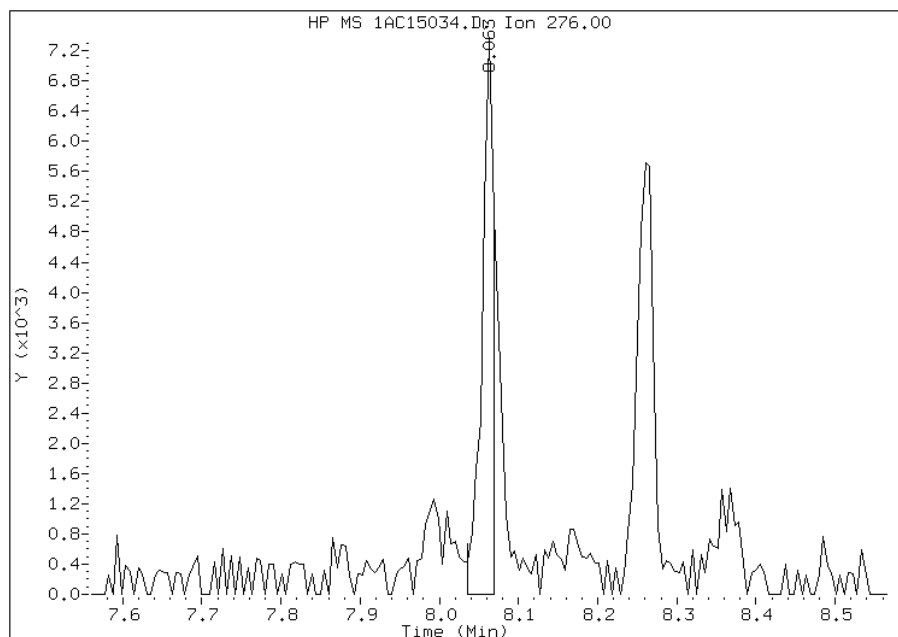
Processing Integration Results

RT: 8.01
Response: 1212
Amount: 0
Conc: 59



Manual Integration Results

RT: 8.06
Response: 7313
Amount: 1
Conc: 353



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:30
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88118-1 Analy Batch No.: 135466

SDG No.: 68088118-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2013 12:54 Calibration End Date: 03/15/2013 14:25 Calibration ID: 2833

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-135466/4	1AC15004.D
Level 2	IC 660-135466/5	1AC15005.D
Level 3	IC 660-135466/6	1AC15006.D
Level 4	IC 660-135466/7	1AC15007.D
Level 5	ICIS 660-135466/3	1AC15003.D
Level 6	IC 660-135466/8	1AC15008.D
Level 7	IC 660-135466/9	1AC15009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Naphthalene	0.9182 0.9843	0.8682 1.0304	0.8414	0.9130	0.9134	Ave		0.9241			0.0000	7.0		15.0			
2-Methylnaphthalene	0.3173 0.5626	0.3880 0.5601	0.4398	0.4970	0.4939	Lin	0.0220	0.5669			0.0000				0.9977		0.9900
1-Methylnaphthalene	0.4777 0.5845	0.5531 0.6040	0.4506	0.5167	0.5332	Ave		0.5314			0.0000	10.4		15.0			
Acenaphthylene	1.0811 1.6297	1.1761 1.8722	1.3170	1.5059	1.4858	Qua	0.0041	0.7073	-0.075		0.0000				0.9997		0.9900
Acenaphthene	0.5482 0.9648	0.7151 1.1119	0.7239	0.7842	0.8623	Qua	0.0105	1.2107	-0.231		0.0000				0.9995		0.9900
Fluorene	0.9196 1.1621	0.7108 1.4041	0.9794	0.9875	1.0362	Qua	0.0051	1.0243	-0.180		0.0000				0.9997		0.9900
Phenanthrene	0.8931 1.0963	0.9370 1.1892	0.9513	1.0358	0.9939	Ave		1.0138			0.0000	10.1		15.0			
Anthracene	0.7882 1.0781	0.9144 1.1902	0.9143	1.0125	0.9832	Ave		0.9830			0.0000	13.1		15.0			
Carbazole	0.9171 0.8644	0.8482 1.0183	0.7772	0.8200	0.7858	Ave		0.8616			0.0000	9.8		15.0			
Fluoranthene	0.8759 1.0892	0.9263 1.2393	0.9139	1.0041	0.9662	Ave		1.0021			0.0000	12.5		15.0			
Pyrene	1.1506 1.2084	1.1188 1.2358	1.0383	1.1546	1.1218	Ave		1.1469			0.0000	5.6		15.0			
Benzo[a]anthracene	2.3322 1.1494	1.0618 1.1597	1.0397	1.1448	1.1388	Lin	0.0042	1.1599			0.0000				0.9998		0.9900
Chrysene	0.9519 1.0963	1.1293 1.0909	0.9784	1.0416	0.9636	Ave		1.0360			0.0000	6.9		15.0			
Benzo[b]fluoranthene	0.5952 0.9716	0.9206 1.1134	0.8928	0.9147	0.9663	Lin	0.0301	1.1022			0.0000				0.9937		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88118-1 Analy Batch No.: 135466

SDG No.: 68088118-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2013 12:54 Calibration End Date: 03/15/2013 14:25 Calibration ID: 2833

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Benzo[k]fluoranthene	1.2698 1.1415	0.8332 1.1801	0.9701	1.1224	1.0355	Ave		1.0790			0.0000	13.5		15.0			
Benzo[a]pyrene	0.9834 0.9683	0.8745 1.0399	0.8429	0.9297	0.9323	Ave		0.9387			0.0000	7.1		15.0			
Indeno[1,2,3-cd]pyrene	0.7699 0.8966	0.7718 1.0634	0.7357	0.8848	0.8069	Ave		0.8470			0.0000	13.3		15.0			
Dibenz(a,h)anthracene	0.7891 0.8904	0.7149 1.0350	0.7901	0.8091	0.8477	Ave		0.8395			0.0000	12.1		15.0			
Benzo[g,h,i]perylene	0.9244 0.8344	0.8719 0.9257	0.7802	0.8324	0.7992	Ave		0.8526			0.0000	6.7		15.0			
o-Terphenyl	0.6407 0.6114	0.4486 0.7113	0.5134	0.5554	0.5318	Qua	0.0019	1.9448	-0.611		0.0000				0.9992		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88118-1 Analy Batch No.: 135466

SDG No.: 68088118-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2013 12:54 Calibration End Date: 03/15/2013 14:25 Calibration ID: 2833

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-135466/4	1AC15004.D
Level 2	IC 660-135466/5	1AC15005.D
Level 3	IC 660-135466/6	1AC15006.D
Level 4	IC 660-135466/7	1AC15007.D
Level 5	ICIS 660-135466/3	1AC15003.D
Level 6	IC 660-135466/8	1AC15008.D
Level 7	IC 660-135466/9	1AC15009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Naphthalene	NPT	Ave	2130 303622	9402 536733	48636	91487	212955	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Lin	736 173551	4202 291739	25420	49806	115161	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1108 180305	5990 314615	26047	51777	124303	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Qua	1761 319635	9023 568020	45490	91795	222508	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Qua	893 189235	5486 337349	25006	47803	129142	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Qua	1498 227926	5453 425998	33830	60194	155177	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	1974 303905	9354 493056	49383	93111	231718	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	1742 298885	9128 493502	47464	91019	229236	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	2027 239621	8467 422232	40347	73717	183202	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	1936 301939	9247 513840	47441	90262	225265	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	2259 323353	9768 535158	49430	97774	238669	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin	4579 307563	9270 502221	49496	96948	242288	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	1869 293362	9859 472426	46576	88211	205028	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Lin	1363 285512	9078 523197	49338	86931	204244	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	2908 335436	8216 554548	53608	106676	218874	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88118-1 Analy Batch No.: 135466

SDG No.: 68088118-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2013 12:54 Calibration End Date: 03/15/2013 14:25 Calibration ID: 2833

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Benzo[a]pyrene	PRY	Ave	2252 284542	8623 488657	46577	88362	197061	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	1763 263461	7610 499702	40658	84090	170555	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	1807 261651	7049 486347	43660	76903	179169	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	2117 245198	8597 434983	43115	79114	168914	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Qua	1416 169501	4478 294944	26653	49925	123980	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Qua = Quadratic ISTD

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15003.D
 Lab Smp Id: ICIS-1512372
 Inj Date : 15-MAR-2013 12:54
 Operator : SCC
 Smp Info : ICIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1A-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 3 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		2.303	2.303	(1.000)	466294	40.0000	
* 6 Acenaphthene-d10	164		3.323	3.323	(1.000)	299519	40.0000	
* 10 Phenanthrene-d10	188		4.247	4.247	(1.000)	466296	40.0000	
\$ 14 o-Terphenyl	230		4.525	4.525	(1.065)	123980	20.0000	18.5533
* 18 Chrysene-d12	240		6.245	6.245	(1.000)	425528	40.0000	
* 23 Perylene-d12	264		7.330	7.330	(1.000)	422731	40.0000	
2 Naphthalene	128		2.313	2.313	(1.005)	212955	20.0000	19.7675
3 2-Methylnaphthalene	141		2.714	2.714	(1.179)	115161	20.0000	21.2202
4 1-Methylnaphthalene	142		2.773	2.773	(1.204)	124303	20.0000	20.0661
5 Acenaphthylene	152		3.238	3.238	(0.974)	222508	20.0000	20.6609
7 Acenaphthene	154		3.344	3.344	(1.006)	129142	20.0000	21.1411
9 Fluorene	166		3.649	3.649	(1.098)	155177	20.0000	20.1489
11 Phenanthrene	178		4.263	4.263	(1.004)	231718	20.0000	19.6069
12 Anthracene	178		4.295	4.295	(1.011)	229236	20.0000	20.0044
13 Carbazole	167		4.456	4.456	(1.049)	183202	20.0000	18.2403
15 Fluoranthene	202		5.113	5.113	(1.204)	225265	20.0000	19.2828
16 Pyrene	202		5.278	5.278	(0.845)	238669	20.0000	19.5616
17 Benzo(a)anthracene	228		6.235	6.235	(0.998)	242288	20.0000	19.7327
19 Chrysene	228		6.261	6.261	(1.003)	205028	20.0000	18.6028
20 Benzo(b)fluoranthene	252		7.052	7.052	(0.962)	204244	20.0000	21.2219
21 Benzo(k)fluoranthene	252		7.073	7.073	(0.965)	218874	20.0000	19.1947
22 Benzo(a)pyrene	252		7.282	7.282	(0.993)	197061	20.0000	19.8637
24 Indeno(1,2,3-cd)pyrene	276		8.035	8.035	(1.096)	170555	20.0000	19.0533(M)
25 Dibenzo(a,h)anthracene	278		8.045	8.045	(1.098)	179169	20.0000	20.1955
26 Benzo(g,h,i)perylene	276		8.222	8.222	(1.122)	168914	20.0000	18.7463

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15003.D

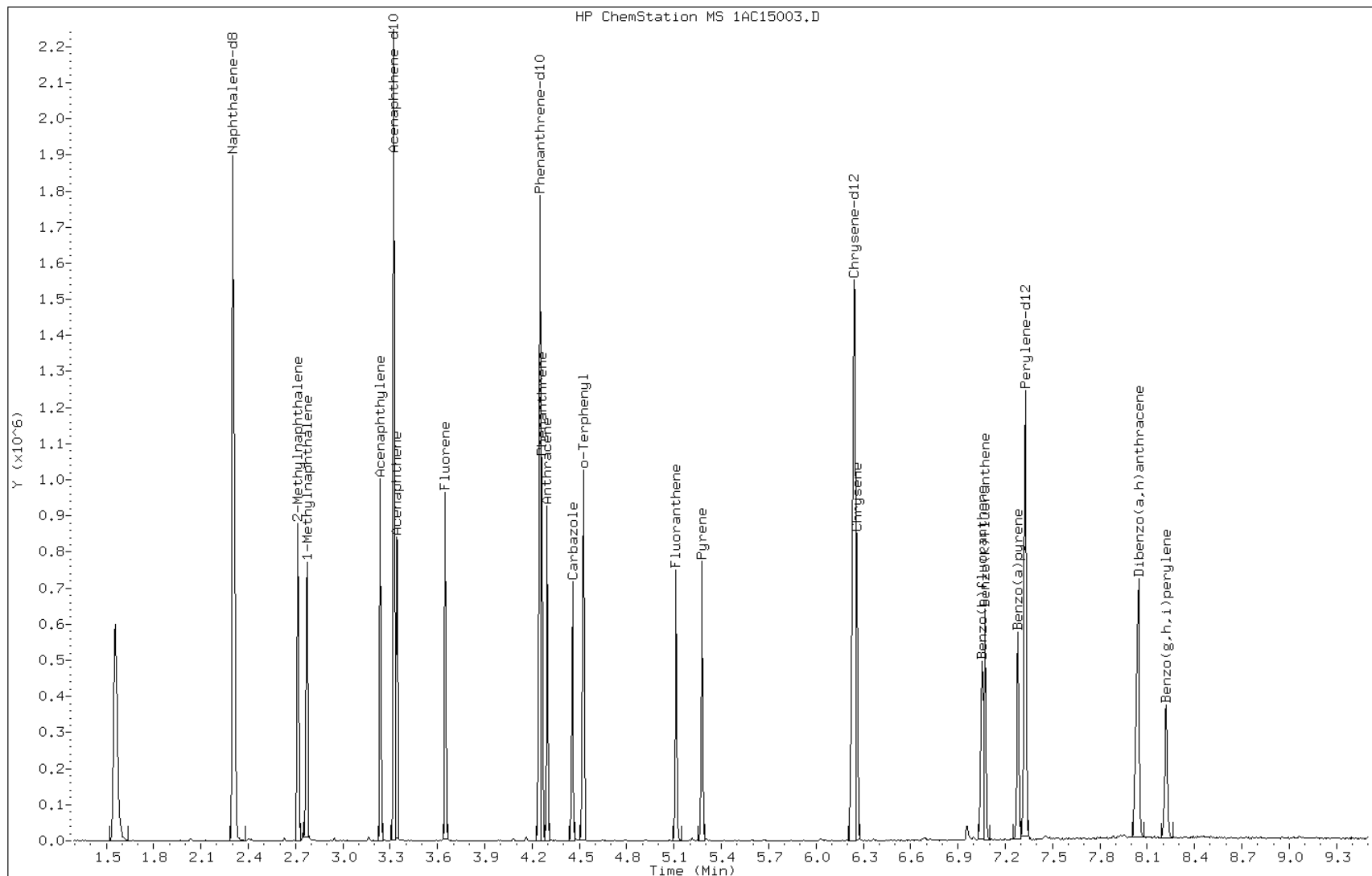
Date: 15-MAR-2013 12:54

Client ID:

Instrument: BSMA5973.i

Sample Info: ICIS-1512372

Operator: SCC

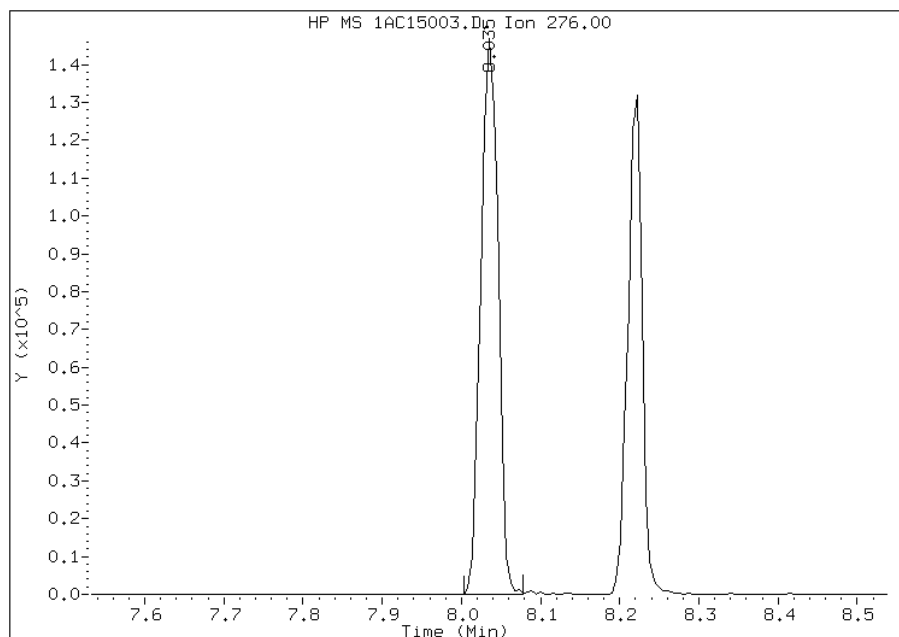


Manual Integration Report

Data File: 1AC15003.D
Inj. Date and Time: 15-MAR-2013 12:54
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

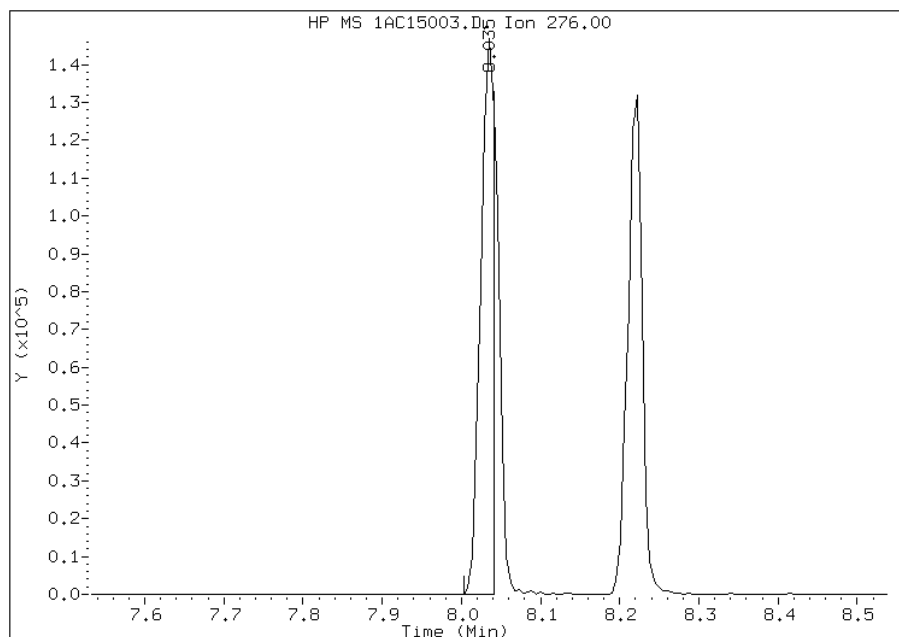
Processing Integration Results

RT: 8.04
Response: 220748
Amount: 25
Conc: 25



Manual Integration Results

RT: 8.04
Response: 170555
Amount: 19
Conc: 19



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 14:45
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15004.D
 Lab Smp Id: IC-1512358
 Inj Date : 15-MAR-2013 13:09
 Operator : SCC
 Smp Info : IC-1512358
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1A-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD
 Cal Date : 15-MAR-2013 12:54 Cal File: 1AC15003.D
 Als bottle: 4 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	=====	136	2.306	2.303	(1.000)	463929	40.0000	
* 6 Acenaphthene-d10	=====	164	3.321	3.323	(1.000)	325790	40.0000	
* 10 Phenanthrene-d10	=====	188	4.245	4.247	(1.000)	442045	40.0000	
\$ 14 o-Terphenyl	=====	230	4.517	4.525	(1.064)	1416	0.20000	0.2235
* 18 Chrysene-d12	=====	240	6.243	6.245	(1.000)	392679	40.0000	
* 23 Perylene-d12	=====	264	7.327	7.330	(1.000)	458007	40.0000	
2 Naphthalene	=====	128	2.311	2.313	(1.002)	2130	0.20000	0.1987
3 2-Methylnaphthalene	=====	141	2.717	2.714	(1.178)	736	0.20000	0.1363(Q)
4 1-Methylnaphthalene	=====	142	2.770	2.773	(1.202)	1108	0.20000	0.1797
5 Acenaphthylene	=====	152	3.235	3.238	(0.974)	1761	0.20000	0.1503
7 Acenaphthene	=====	154	3.337	3.344	(1.005)	893	0.20000	0.1344
9 Fluorene	=====	166	3.646	3.649	(1.098)	1498	0.20000	0.1788(T)
11 Phenanthrene	=====	178	4.261	4.263	(1.004)	1974	0.20000	0.1761
12 Anthracene	=====	178	4.298	4.295	(1.013)	1742	0.20000	0.1603
13 Carbazole	=====	167	4.453	4.456	(1.049)	2027	0.20000	0.2128(T)
15 Fluoranthene	=====	202	5.110	5.113	(1.204)	1936	0.20000	0.1748
16 Pyrene	=====	202	5.276	5.278	(0.845)	2259	0.20000	0.2006
17 Benzo(a)anthracene	=====	228	6.237	6.235	(0.999)	4579	0.20000	0.4041
19 Chrysene	=====	228	6.253	6.261	(1.002)	1869	0.20000	0.1837
20 Benzo(b)fluoranthene	=====	252	7.049	7.052	(0.962)	1363	0.20000	0.1307
21 Benzo(k)fluoranthene	=====	252	7.065	7.073	(0.964)	2908	0.20000	0.2353
22 Benzo(a)pyrene	=====	252	7.274	7.282	(0.993)	2252	0.20000	0.2095
24 Indeno(1,2,3-cd)pyrene	=====	276	8.027	8.035	(1.096)	1763	0.20000	0.1817(M)
25 Dibenzo(a,h)anthracene	=====	278	8.032	8.045	(1.096)	1807	0.20000	0.1879
26 Benzo(g,h,i)perylene	=====	276	8.214	8.222	(1.121)	2117	0.20000	0.2168

QC Flag Legend

- T - Target compound detected outside RT window.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: 1AC15004.D

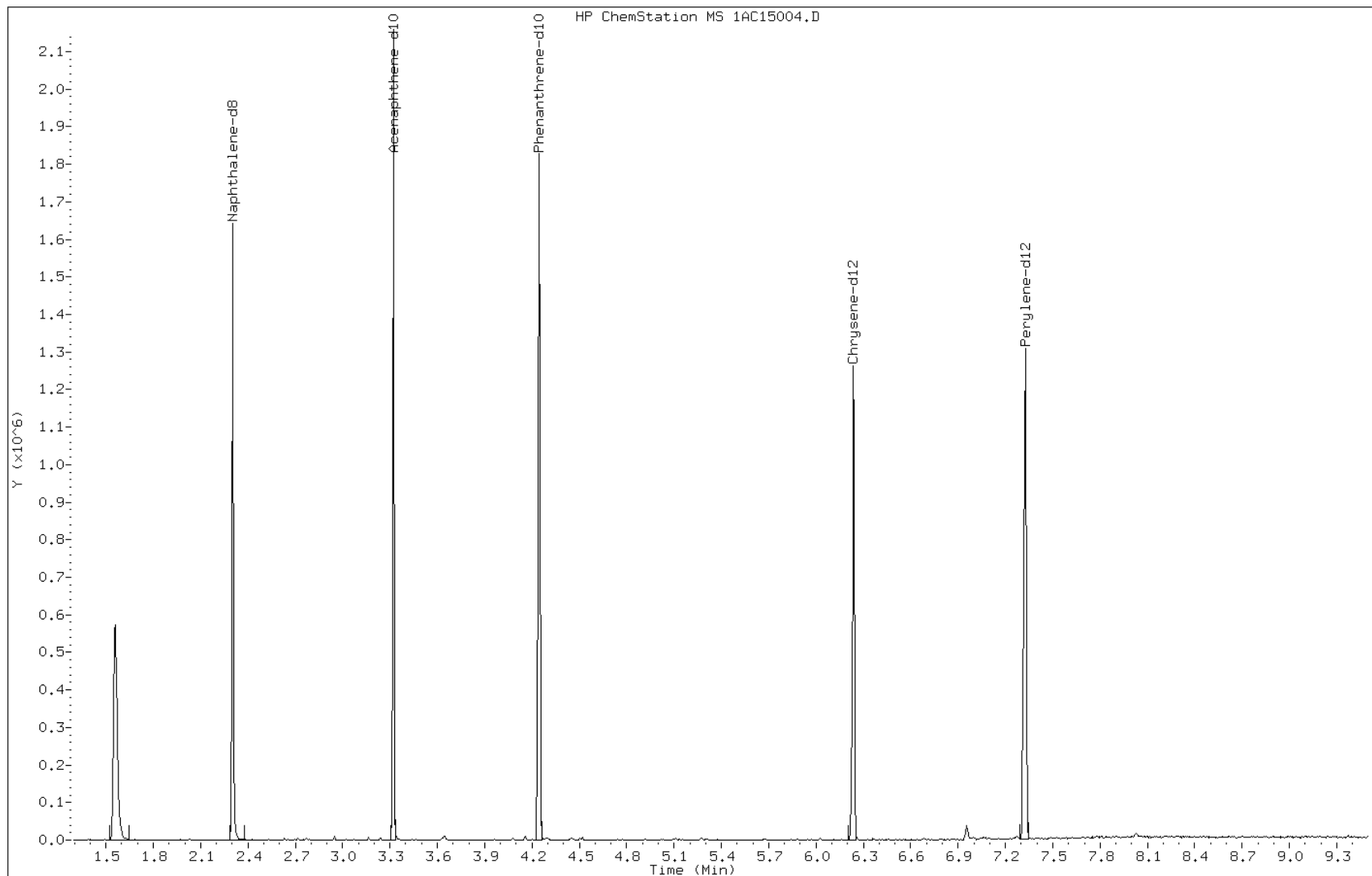
Date: 15-MAR-2013 13:09

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512358

Operator: SCC

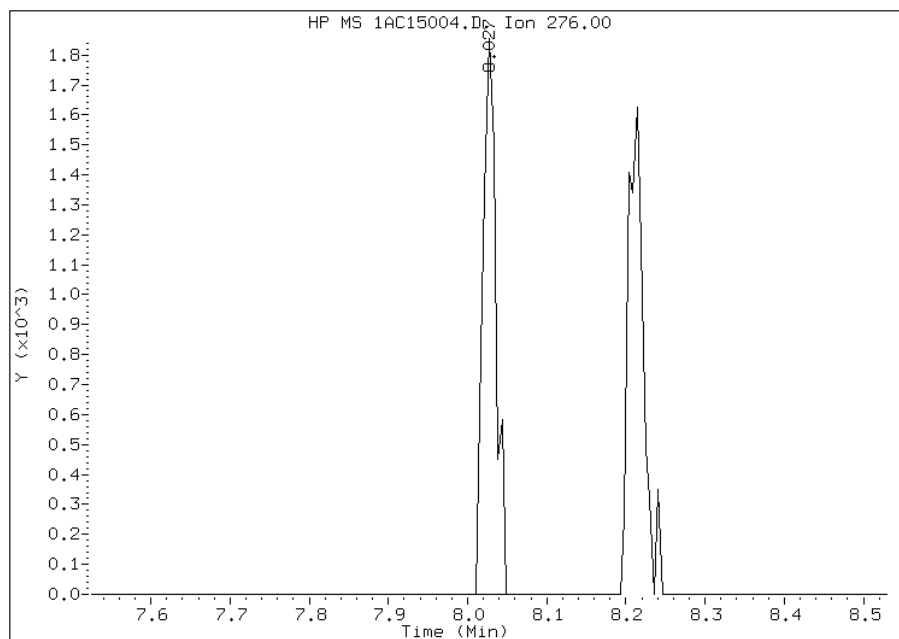


Manual Integration Report

Data File: 1AC15004.D
Inj. Date and Time: 15-MAR-2013 13:09
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

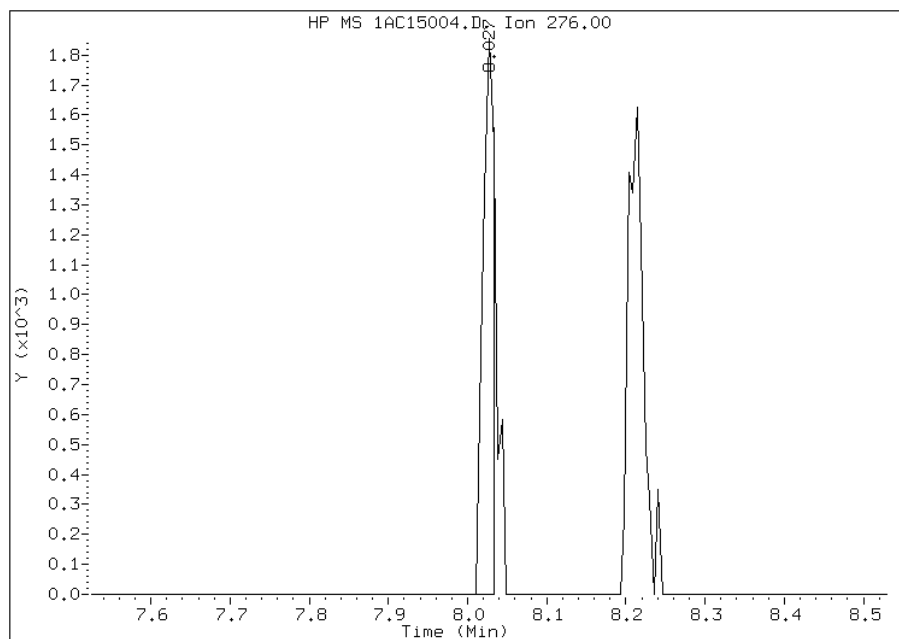
Processing Integration Results

RT: 8.03
Response: 2094
Amount: 0
Conc: 0



Manual Integration Results

RT: 8.03
Response: 1763
Amount: 0
Conc: 0



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 14:47
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15005.D
 Lab Smp Id: IC-1512359
 Inj Date : 15-MAR-2013 13:24
 Operator : SCC
 Smp Info : IC-1512359
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1A-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD
 Cal Date : 15-MAR-2013 13:09 Cal File: 1AC15004.D
 Als bottle: 5 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
* 1 Naphthalene-d8	136		2.304	2.303	(1.000)	433180	40.0000	
* 6 Acenaphthene-d10	164		3.324	3.323	(1.000)	306883	40.0000	
* 10 Phenanthrene-d10	188		4.248	4.247	(1.000)	399304	40.0000	
\$ 14 o-Terphenyl	230		4.521	4.525	(1.064)	4478	1.00000	0.7825
* 18 Chrysene-d12	240		6.241	6.245	(1.000)	349216	40.0000	
* 23 Perylene-d12	264		7.325	7.330	(1.000)	394419	40.0000	
2 Naphthalene	128		2.314	2.313	(1.005)	9402	1.00000	0.9394
3 2-Methylnaphthalene	141		2.715	2.714	(1.179)	4202	1.00000	0.8334
4 1-Methylnaphthalene	142		2.768	2.773	(1.202)	5990	1.00000	1.0408
5 Acenaphthylene	152		3.239	3.238	(0.974)	9023	1.00000	0.8177
7 Acenaphthene	154		3.340	3.344	(1.005)	5486	1.00000	0.8765
9 Fluorene	166		3.650	3.649	(1.098)	5453	1.00000	0.6910
11 Phenanthrene	178		4.259	4.263	(1.002)	9354	1.00000	0.9242
12 Anthracene	178		4.291	4.295	(1.010)	9128	1.00000	0.9302
13 Carbazole	167		4.451	4.456	(1.048)	8467	1.00000	0.9844
15 Fluoranthene	202		5.114	5.113	(1.204)	9247	1.00000	0.9243
16 Pyrene	202		5.274	5.278	(0.845)	9768	1.00000	0.9755
17 Benzo(a)anthracene	228		6.235	6.235	(0.999)	9270	1.00000	0.9199
19 Chrysene	228		6.252	6.261	(1.002)	9859	1.00000	1.0900
20 Benzo(b)fluoranthene	252		7.048	7.052	(0.962)	9078	1.00000	1.0109
21 Benzo(k)fluoranthene	252		7.064	7.073	(0.964)	8216	1.00000	0.7722
22 Benzo(a)pyrene	252		7.277	7.282	(0.993)	8623	1.00000	0.9315
24 Indeno(1,2,3-cd)pyrene	276		8.025	8.035	(1.096)	7610	1.00000	0.9111(M)
25 Dibenzo(a,h)anthracene	278		8.030	8.045	(1.096)	7049	1.00000	0.8515
26 Benzo(g,h,i)perylene	276		8.212	8.222	(1.121)	8597	1.00000	1.0225

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15005.D

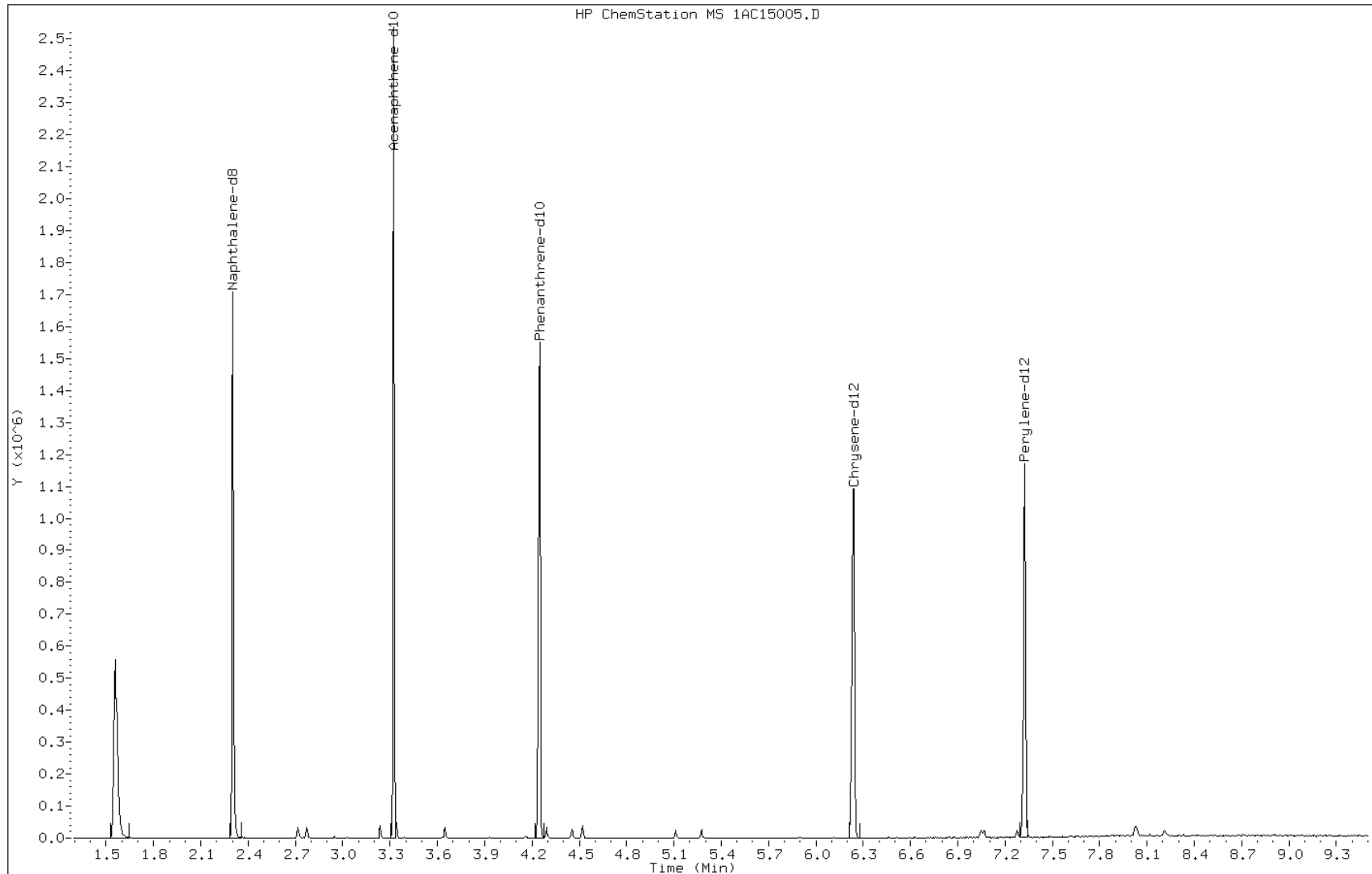
Date: 15-MAR-2013 13:24

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512359

Operator: SCC

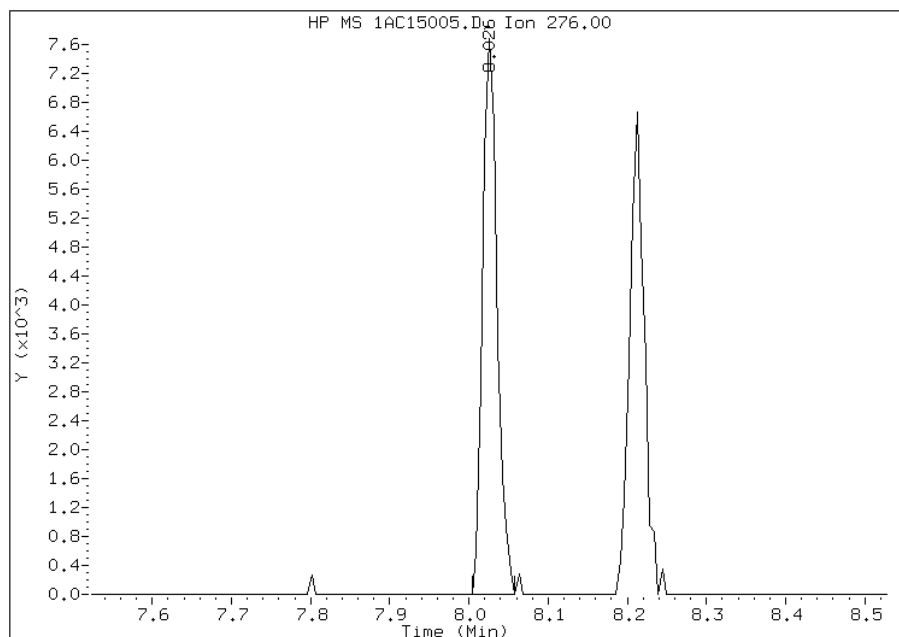


Manual Integration Report

Data File: 1AC15005.D
Inj. Date and Time: 15-MAR-2013 13:24
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

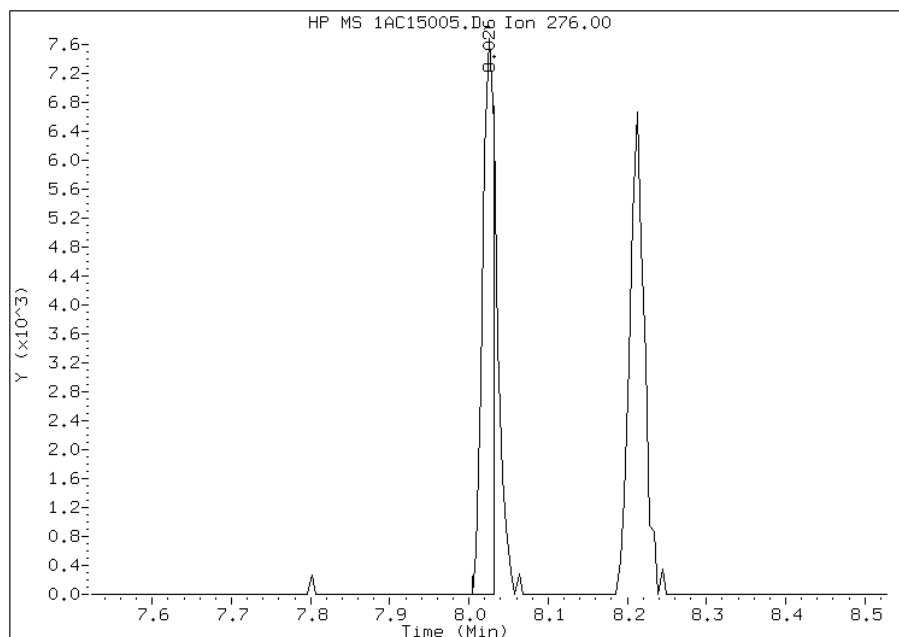
Processing Integration Results

RT: 8.03
Response: 9630
Amount: 1
Conc: 1



Manual Integration Results

RT: 8.03
Response: 7610
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 14:48
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15006.D
 Lab Smp Id: IC-1512360
 Inj Date : 15-MAR-2013 13:39
 Operator : SCC
 Smp Info : IC-1512360
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1A-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD
 Cal Date : 15-MAR-2013 13:24 Cal File: 1AC15005.D
 Als bottle: 6 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.301	2.303	(1.000)	462418	40.0000	
* 6 Acenaphthene-d10	164	3.322	3.323	(1.000)	276334	40.0000	
* 10 Phenanthrene-d10	188	4.246	4.247	(1.000)	415283	40.0000	
\$ 14 o-Terphenyl	230	4.523	4.525	(1.065)	26653	5.00000	4.4785
* 18 Chrysene-d12	240	6.238	6.245	(1.000)	380837	40.0000	
* 23 Perylene-d12	264	7.328	7.330	(1.000)	442088	40.0000	
2 Naphthalene	128	2.312	2.313	(1.005)	48636	5.00000	4.5524
3 2-Methylnaphthalene	141	2.713	2.714	(1.179)	25420	5.00000	4.7233
4 1-Methylnaphthalene	142	2.771	2.773	(1.204)	26047	5.00000	4.2399
5 Acenaphthylene	152	3.236	3.238	(0.974)	45490	5.00000	4.5783
7 Acenaphthene	154	3.338	3.344	(1.005)	25006	5.00000	4.4370
9 Fluorene	166	3.647	3.649	(1.098)	33830	5.00000	4.7612
11 Phenanthrene	178	4.262	4.263	(1.004)	49383	5.00000	4.6918
12 Anthracene	178	4.294	4.295	(1.011)	47464	5.00000	4.6507
13 Carbazole	167	4.449	4.456	(1.048)	40347	5.00000	4.5105
15 Fluoranthene	202	5.111	5.113	(1.204)	47441	5.00000	4.5598
16 Pyrene	202	5.271	5.278	(0.845)	49430	5.00000	4.5267
17 Benzo(a)anthracene	228	6.233	6.235	(0.999)	49496	5.00000	4.5041
19 Chrysene	228	6.254	6.261	(1.003)	46576	5.00000	4.7219
20 Benzo(b)fluoranthene	252	7.050	7.052	(0.962)	49338	5.00000	4.9020
21 Benzo(k)fluoranthene	252	7.066	7.073	(0.964)	53608	5.00000	4.4954
22 Benzo(a)pyrene	252	7.275	7.282	(0.993)	46577	5.00000	4.4893
24 Indeno(1,2,3-cd)pyrene	276	8.023	8.035	(1.095)	40658	5.00000	4.3431(M)
25 Dibenzo(a,h)anthracene	278	8.033	8.045	(1.096)	43660	5.00000	4.7057
26 Benzo(g,h,i)perylene	276	8.210	8.222	(1.120)	43115	5.00000	4.5754

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15006.D

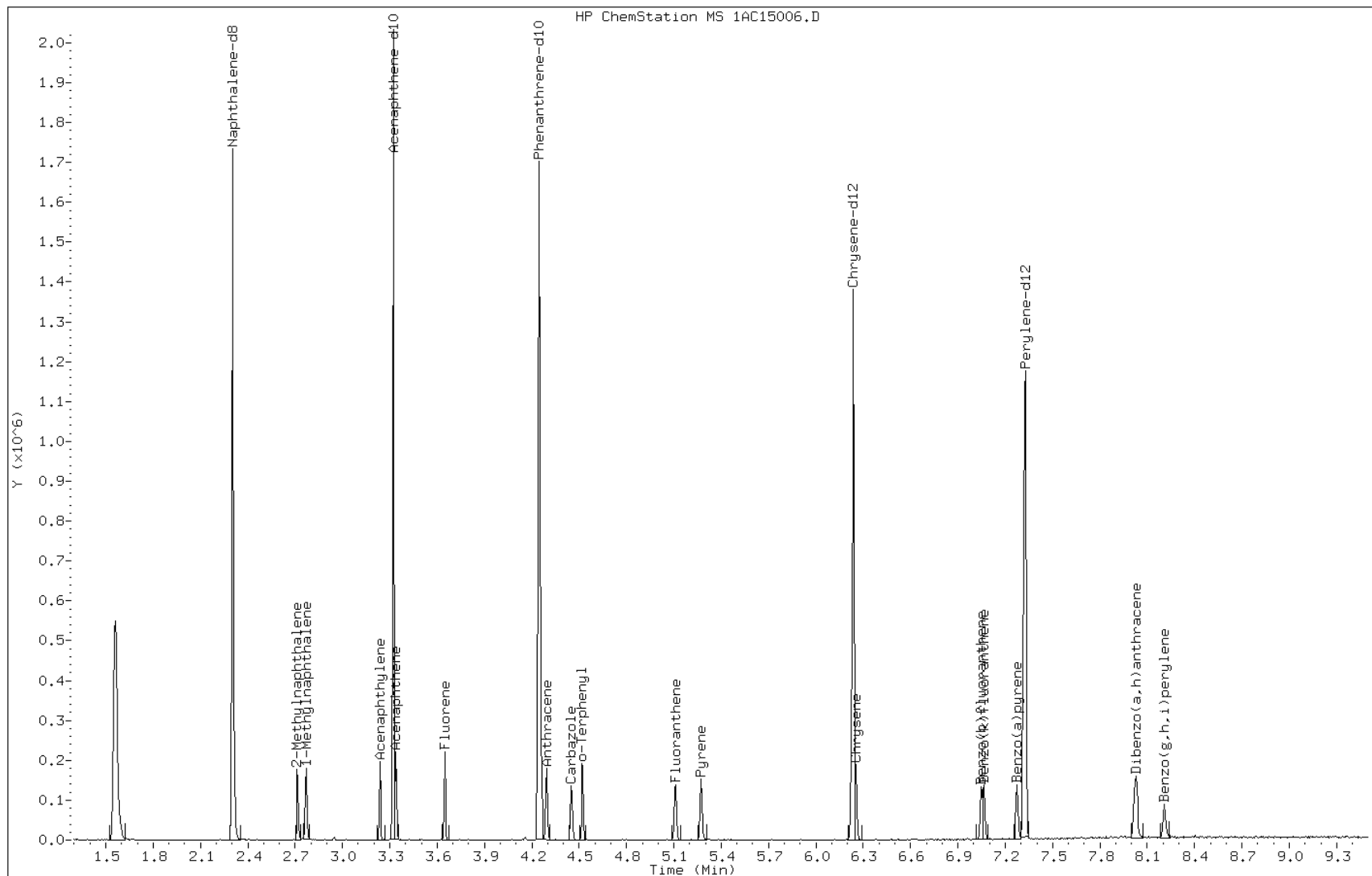
Date: 15-MAR-2013 13:39

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512360

Operator: SCC

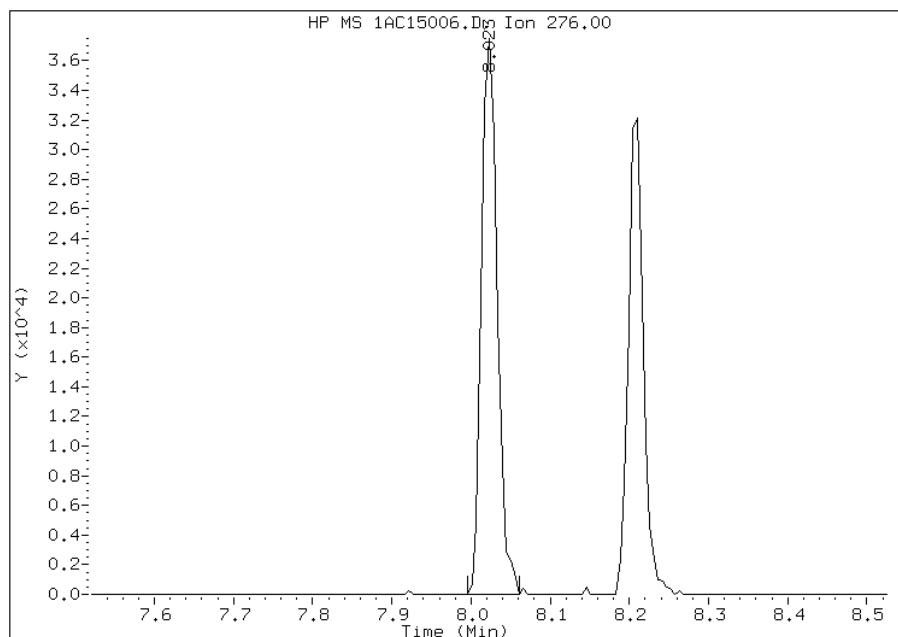


Manual Integration Report

Data File: 1AC15006.D
Inj. Date and Time: 15-MAR-2013 13:39
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

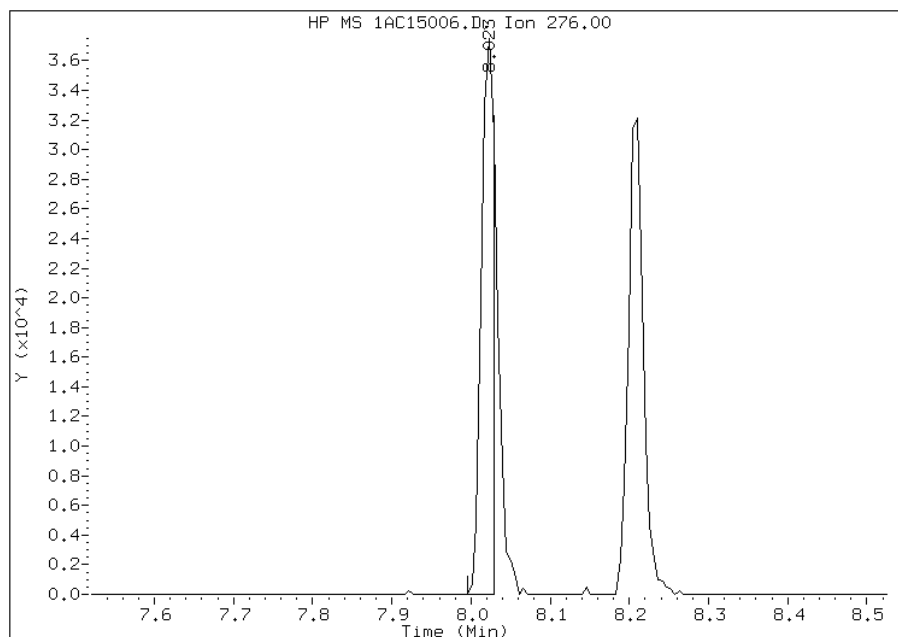
Processing Integration Results

RT: 8.02
Response: 51555
Amount: 5
Conc: 5



Manual Integration Results

RT: 8.02
Response: 40658
Amount: 4
Conc: 4



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 14:48
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15007.D
 Lab Smp Id: IC-1512361
 Inj Date : 15-MAR-2013 13:54
 Operator : SCC
 Smp Info : IC-1512361
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15007.D
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD
 Cal Date : 15-MAR-2013 13:39 Cal File: 1AC15006.D
 Als bottle: 7 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		2.301	2.303	(1.000)	400821	40.0000	
* 6 Acenaphthene-d10	164		3.321	3.323	(1.000)	243827	40.0000	
* 10 Phenanthrene-d10	188		4.245	4.247	(1.000)	359580	40.0000	
\$ 14 o-Terphenyl	230		4.523	4.525	(1.065)	49925	10.0000	9.6884
* 18 Chrysene-d12	240		6.238	6.245	(1.000)	338736	40.0000	
* 23 Perylene-d12	264		7.322	7.330	(1.000)	380168	40.0000	
2 Naphthalene	128		2.312	2.313	(1.005)	91487	10.0000	9.8794
3 2-Methylnaphthalene	141		2.718	2.714	(1.181)	49806	10.0000	10.6766
4 1-Methylnaphthalene	142		2.771	2.773	(1.204)	51777	10.0000	9.7236
5 Acenaphthylene	152		3.236	3.238	(0.974)	91795	10.0000	10.4704
7 Acenaphthene	154		3.343	3.344	(1.006)	47803	10.0000	9.6130
9 Fluorene	166		3.647	3.649	(1.098)	60194	10.0000	9.6010
11 Phenanthrene	178		4.261	4.263	(1.004)	93111	10.0000	10.2168
12 Anthracene	178		4.293	4.295	(1.011)	91019	10.0000	10.3001
13 Carbazole	167		4.454	4.456	(1.049)	73717	10.0000	9.5178
15 Fluoranthene	202		5.111	5.113	(1.204)	90262	10.0000	10.0195
16 Pyrene	202		5.271	5.278	(0.845)	97774	10.0000	10.0669
17 Benzo(a)anthracene	228		6.227	6.235	(0.998)	96948	10.0000	9.9188
19 Chrysene	228		6.254	6.261	(1.003)	88211	10.0000	10.0543
20 Benzo(b)fluoranthene	252		7.050	7.052	(0.963)	86931	10.0000	10.0438
21 Benzo(k)fluoranthene	252		7.066	7.073	(0.965)	106676	10.0000	10.4026
22 Benzo(a)pyrene	252		7.274	7.282	(0.993)	88362	10.0000	9.9040
24 Indeno(1,2,3-cd)pyrene	276		8.028	8.035	(1.096)	84090	10.0000	10.4457(M)
25 Dibenzo(a,h)anthracene	278		8.033	8.045	(1.097)	76903	10.0000	9.6388
26 Benzo(g,h,i)perylene	276		8.209	8.222	(1.121)	79114	10.0000	9.7632

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15007.D

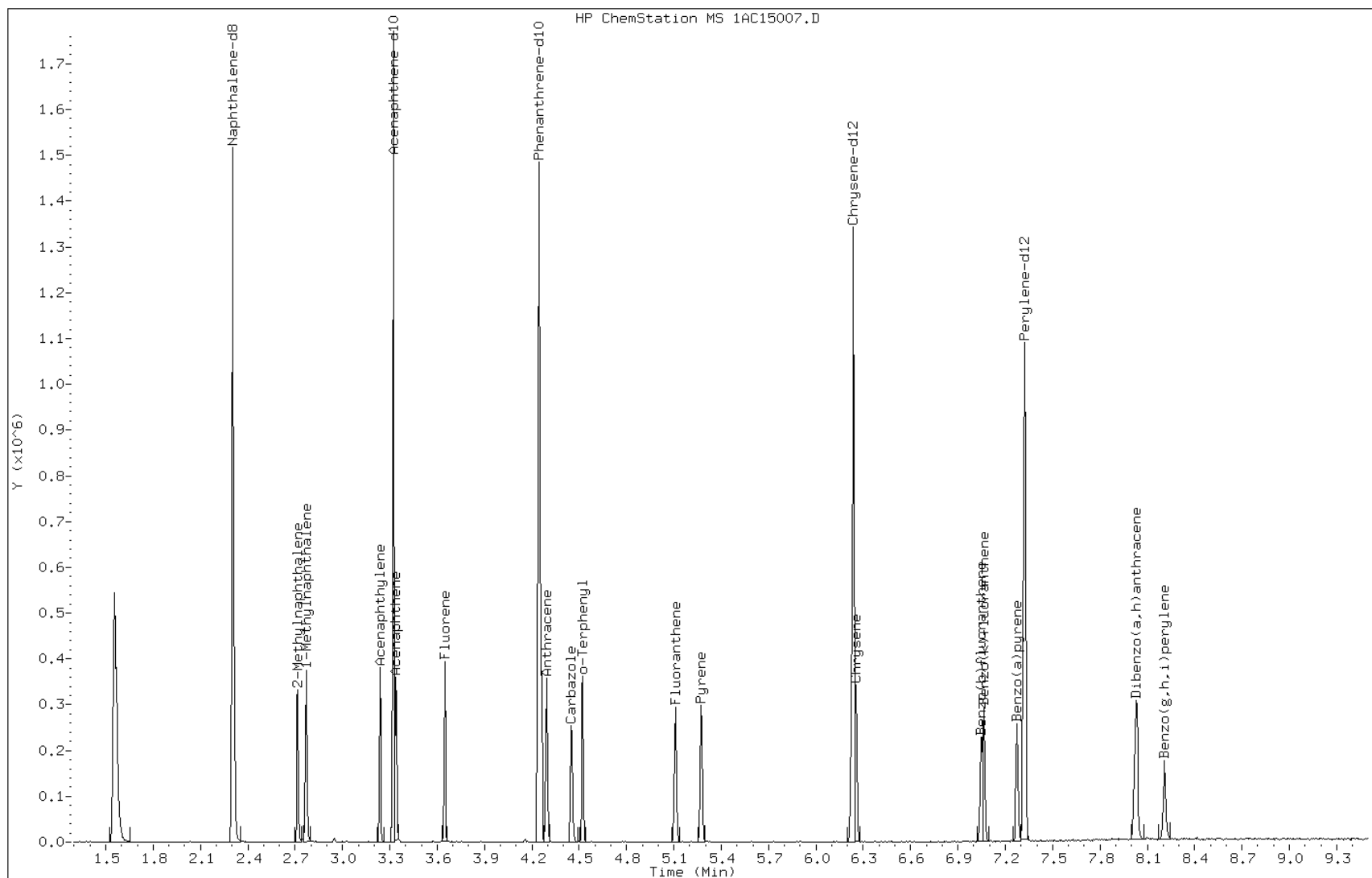
Date: 15-MAR-2013 13:54

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512361

Operator: SCC

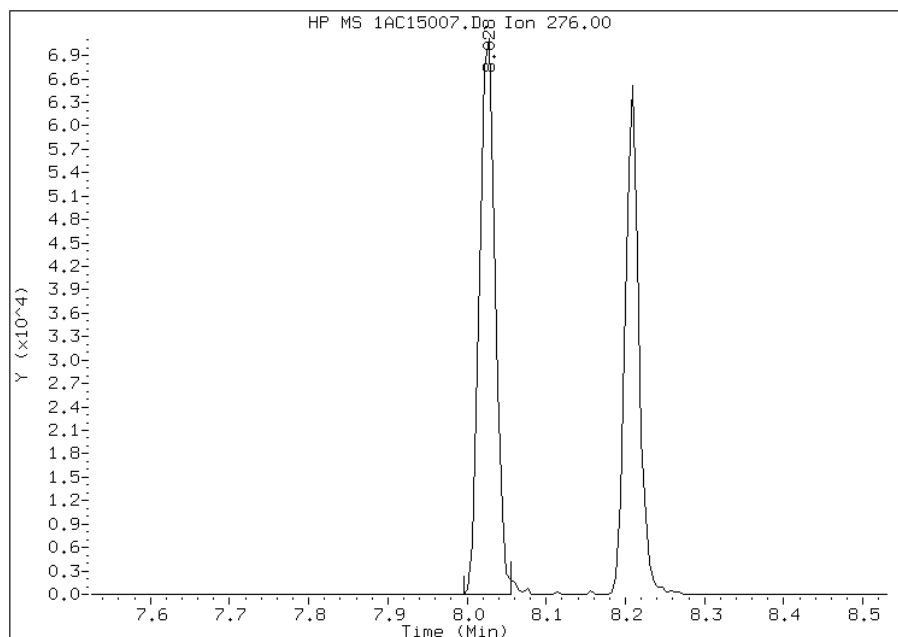


Manual Integration Report

Data File: 1AC15007.D
Inj. Date and Time: 15-MAR-2013 13:54
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

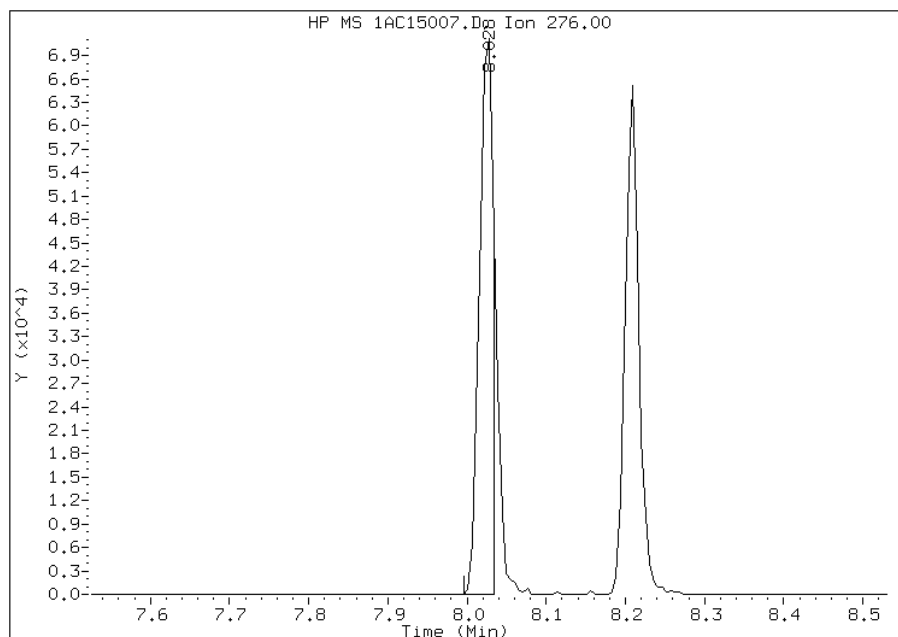
Processing Integration Results

RT: 8.03
Response: 97441
Amount: 11
Conc: 11



Manual Integration Results

RT: 8.03
Response: 84090
Amount: 10
Conc: 10



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 14:49
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15008.D
 Lab Smp Id: IC-1512373
 Inj Date : 15-MAR-2013 14:10
 Operator : SCC
 Smp Info : IC-1512373
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1A-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD
 Cal Date : 15-MAR-2013 13:54 Cal File: 1AC15007.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	AMOUNTS					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		2.302	2.303	(1.000)	411292	40.0000	
* 6 Acenaphthene-d10	164		3.323	3.323	(1.000)	261514	40.0000	
* 10 Phenanthrene-d10	188		4.247	4.247	(1.000)	369627	40.0000	
\$ 14 o-Terphenyl	230		4.525	4.525	(1.065)	169501	30.0000	31.9993
* 18 Chrysene-d12	240		6.239	6.245	(1.000)	356785	40.0000	
* 23 Perylene-d12	264		7.329	7.330	(1.000)	391800	40.0000	
2 Naphthalene	128		2.313	2.313	(1.005)	303622	30.0000	31.9527
3 2-Methylnaphthalene	141		2.719	2.714	(1.181)	173551	30.0000	36.2562
4 1-Methylnaphthalene	142		2.772	2.773	(1.204)	180305	30.0000	32.9988
5 Acenaphthylene	152		3.237	3.238	(0.974)	319635	30.0000	33.9929
7 Acenaphthene	154		3.344	3.344	(1.006)	189235	30.0000	35.4807
9 Fluorene	166		3.648	3.649	(1.098)	227926	30.0000	33.8959
11 Phenanthrene	178		4.263	4.263	(1.004)	303905	30.0000	32.4404
12 Anthracene	178		4.295	4.295	(1.011)	298885	30.0000	32.9038
13 Carbazole	167		4.455	4.456	(1.049)	239621	30.0000	30.0972
15 Fluoranthene	202		5.112	5.113	(1.204)	301939	30.0000	32.6057
16 Pyrene	202		5.278	5.278	(0.846)	323353	30.0000	31.6087
17 Benzo(a)anthracene	228		6.229	6.235	(0.998)	307563	30.0000	29.8752
19 Chrysene	228		6.261	6.261	(1.003)	293362	30.0000	31.7461
20 Benzo(b)fluoranthene	252		7.051	7.052	(0.962)	285512	30.0000	32.0081
21 Benzo(k)fluoranthene	252		7.073	7.073	(0.965)	335436	30.0000	31.7393
22 Benzo(a)pyrene	252		7.281	7.282	(0.993)	284542	30.0000	30.9461
24 Indeno(1,2,3-cd)pyrene	276		8.040	8.035	(1.097)	263461	30.0000	31.7558(M)
25 Dibenzo(a,h)anthracene	278		8.050	8.045	(1.098)	261651	30.0000	31.8210
26 Benzo(g,h,i)perylene	276		8.221	8.222	(1.122)	245198	30.0000	29.3607

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15008.D

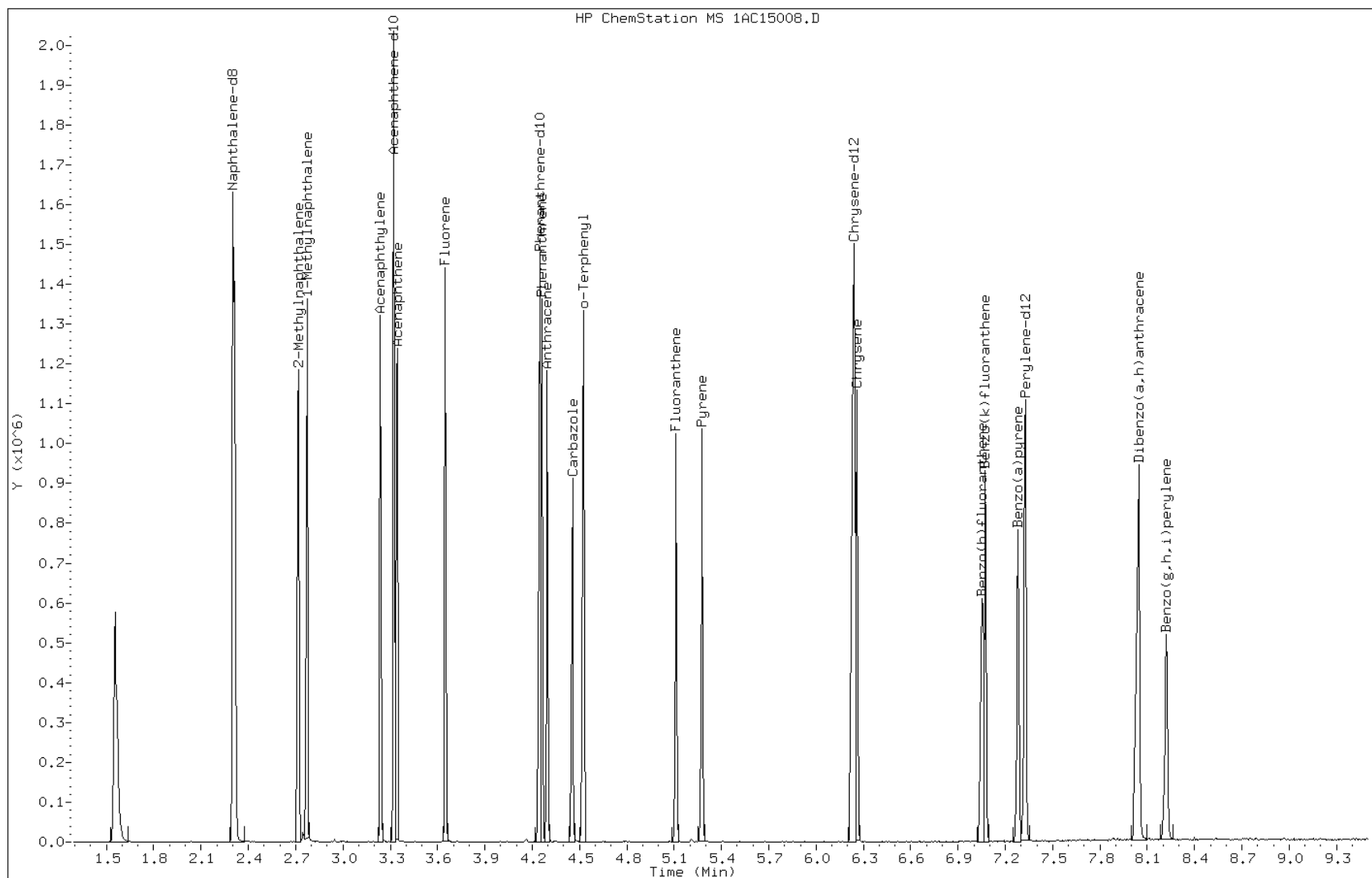
Date: 15-MAR-2013 14:10

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512373

Operator: SCC

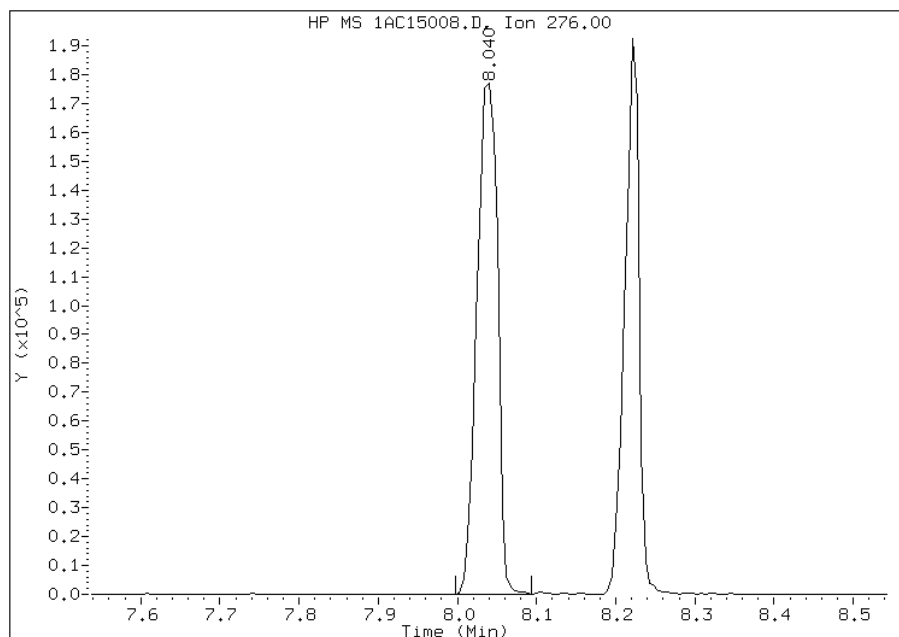


Manual Integration Report

Data File: 1AC15008.D
Inj. Date and Time: 15-MAR-2013 14:10
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

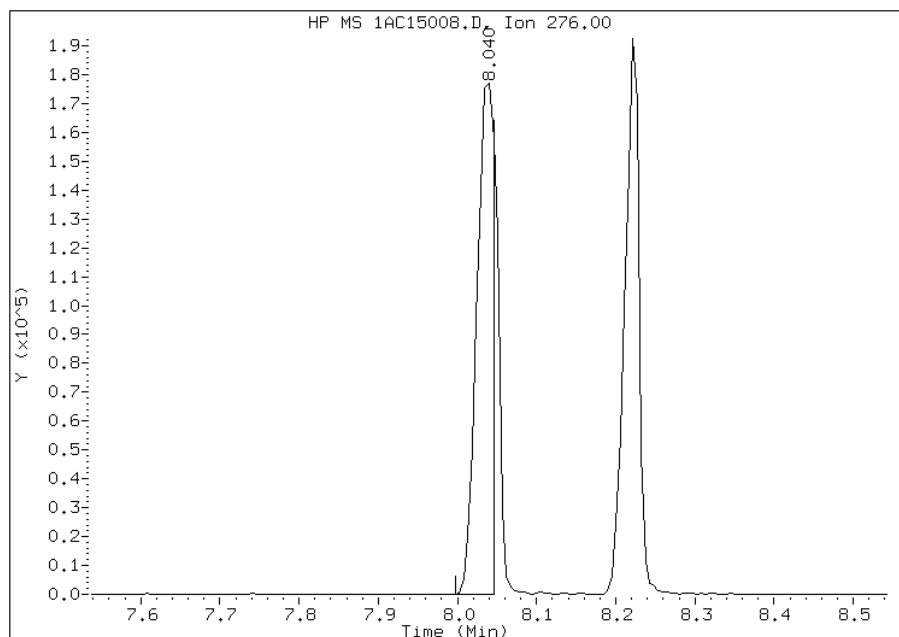
Processing Integration Results

RT: 8.04
Response: 316858
Amount: 34
Conc: 34



Manual Integration Results

RT: 8.04
Response: 263461
Amount: 32
Conc: 32



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 14:49
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMA5973.i\1A031513.b\1AC15009.D
 Lab Smp Id: IC-1512374
 Inj Date : 15-MAR-2013 14:25
 Operator : SCC
 Smp Info : IC-1512374
 Misc Info :
 Comment :
 Method : \\tam-chemsrv\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:10 Cal File: 1AC15008.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					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.303	2.303	(1.000)	416711	40.0000	
* 6 Acenaphthene-d10	164	3.324	3.323	(1.000)	242716	40.0000	
* 10 Phenanthrene-d10	188	4.248	4.247	(1.000)	331701	40.0000	
\$ 14 o-Terphenyl	230	4.526	4.525	(1.065)	294944	50.0000	62.0476(A)
* 18 Chrysene-d12	240	6.246	6.245	(1.000)	346445	40.0000	
* 23 Perylene-d12	264	7.330	7.330	(1.000)	375920	40.0000	
2 Naphthalene	128	2.314	2.313	(1.005)	536733	50.0000	55.7504(A)
3 2-Methylnaphthalene	141	2.720	2.714	(1.181)	291739	50.0000	60.1540(A)
4 1-Methylnaphthalene	142	2.773	2.773	(1.204)	314615	50.0000	56.8310(A)
5 Acenaphthylene	152	3.244	3.238	(0.976)	568020	50.0000	65.0871(A)
7 Acenaphthene	154	3.345	3.344	(1.006)	337349	50.0000	68.1501(A)
9 Fluorene	166	3.655	3.649	(1.100)	425998	50.0000	68.2586(A)
11 Phenanthrene	178	4.264	4.263	(1.004)	493056	50.0000	58.6491(A)
12 Anthracene	178	4.301	4.295	(1.013)	493502	50.0000	60.5408(A)
13 Carbazole	167	4.462	4.456	(1.050)	422232	50.0000	59.0976(A)
15 Fluoranthene	202	5.113	5.113	(1.204)	513840	50.0000	61.8329(A)
16 Pyrene	202	5.279	5.278	(0.845)	535158	50.0000	53.8747(A)
17 Benzo(a)anthracene	228	6.235	6.235	(0.998)	502221	50.0000	50.2394(A)
19 Chrysene	228	6.267	6.261	(1.003)	472426	50.0000	52.6494(A)
20 Benzo(b)fluoranthene	252	7.058	7.052	(0.963)	523197	50.0000	61.1322(A)
21 Benzo(k)fluoranthene	252	7.085	7.073	(0.966)	554548	50.0000	54.6885(A)
22 Benzo(a)pyrene	252	7.288	7.282	(0.994)	488657	50.0000	55.3902(A)
24 Indeno(1,2,3-cd)pyrene	276	8.051	8.035	(1.098)	499702	50.0000	62.7751(A)
25 Dibenzo(a,h)anthracene	278	8.057	8.045	(1.099)	486347	50.0000	61.6464(A)
26 Benzo(g,h,i)perylene	276	8.238	8.222	(1.124)	434983	50.0000	54.2864(A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File: 1AC15009.D

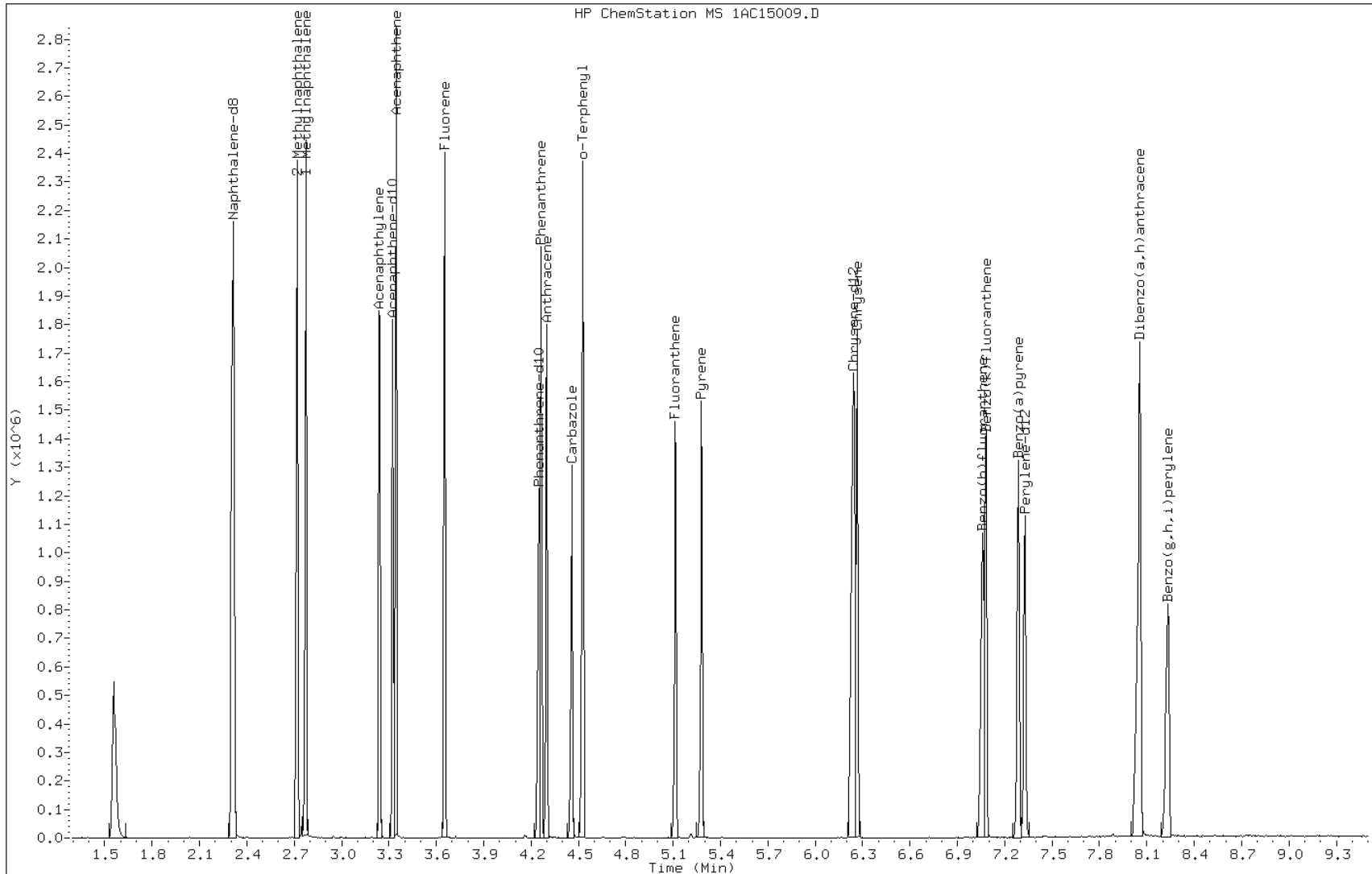
Date: 15-MAR-2013 14:25

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512374

Operator: SCC

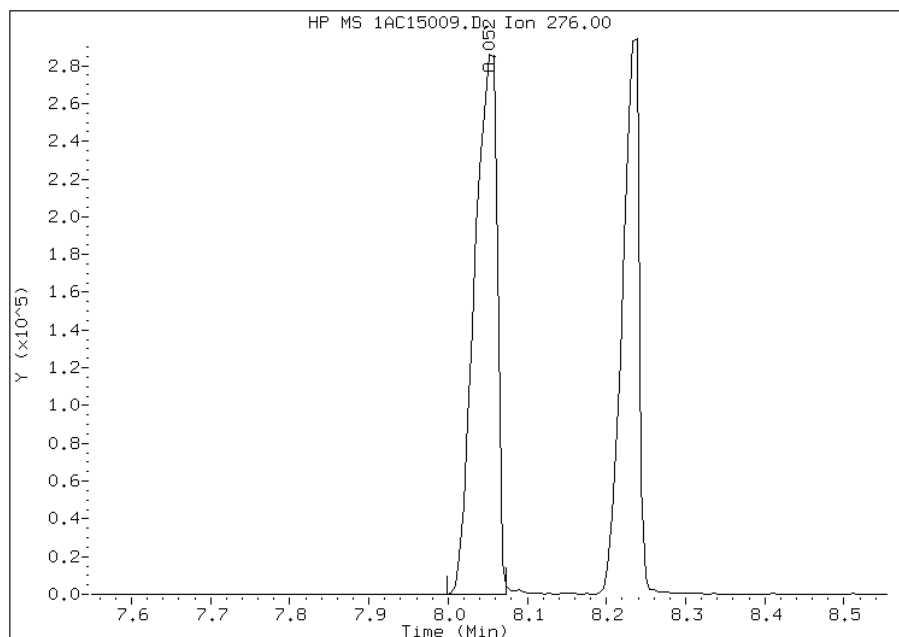


Manual Integration Report

Data File: 1AC15009.D
Inj. Date and Time: 15-MAR-2013 14:25
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

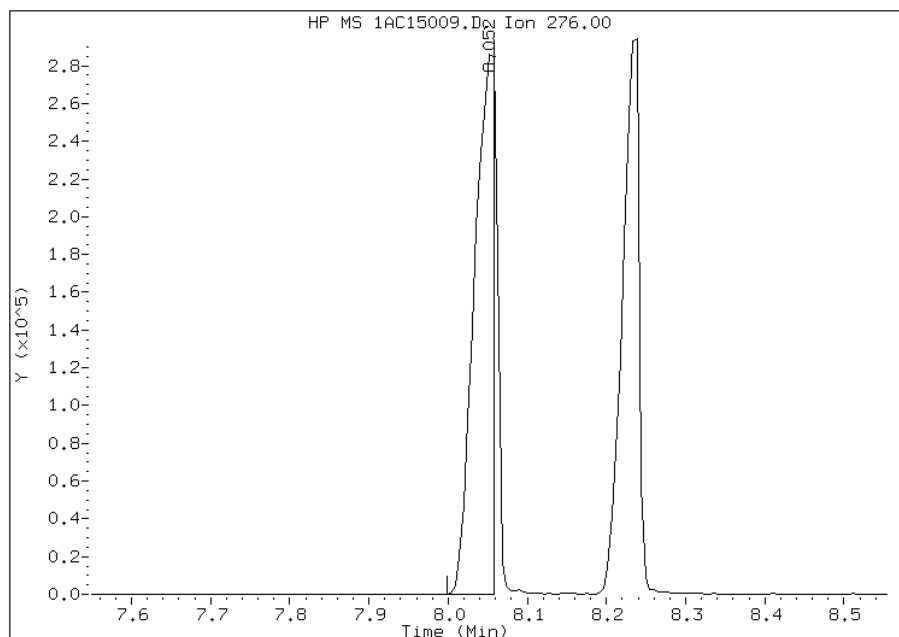
Processing Integration Results

RT: 8.05
Response: 563658
Amount: 61
Conc: 61



Manual Integration Results

RT: 8.05
Response: 499702
Amount: 63
Conc: 63



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 14:50
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88118-1 Analy Batch No.: 134776

SDG No.: 68088118-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Naphthalene	0.9712 1.0467	1.0104 1.0669	1.0471	1.0871	1.0600	Ave		1.0414			0.0000	3.7	15.0				
2-Methylnaphthalene	0.7372 0.6936	0.6277 0.6981	0.6498	0.7330	0.7230	Ave		0.6946			0.0000	6.0	15.0				
1-Methylnaphthalene	0.5602 0.6374	0.5666 0.6603	0.6541	0.6977	0.6523	Ave		0.6326			0.0000	8.0	15.0				
Acenaphthylene	1.6507 1.6289	1.4259 1.6887	1.5782	1.6615	1.6547	Ave		1.6127			0.0000	5.5	15.0				
Acenaphthene	1.1992 0.9520	0.9269 0.9711	1.0052	0.9958	0.9664	Ave		1.0024			0.0000	9.0	15.0				
Fluorene	1.2003 1.2968	1.2155 1.3216	1.2084	1.3213	1.3097	Ave		1.2677			0.0000	4.5	15.0				
Phenanthrene	1.3236 1.1268	1.1829 1.1367	1.1369	1.0982	1.0913	Ave		1.1566			0.0000	6.9	15.0				
Anthracene	1.1830 1.1477	1.0495 1.1690	1.1368	1.1486	1.0836	Ave		1.1312			0.0000	4.2	15.0				
Carbazole	1.1097 0.9866	0.9191 1.0122	0.9992	1.0253	0.9866	Ave		1.0055			0.0000	5.7	15.0				
Fluoranthene	1.3263 1.3062	1.1270 1.2838	1.2811	1.2806	1.2615	Ave		1.2666			0.0000	5.1	15.0				
Pyrene	1.0694 1.0644	1.0908 1.1171	1.0556	1.0637	1.0636	Ave		1.0749			0.0000	2.0	15.0				
Benzo[a]anthracene	1.5187 1.0791	1.1715 1.0797	1.0862	1.0840	1.0620	Ave		1.1545			0.0000	14.3	15.0				
Chrysene	1.3833 1.1146	1.1955 1.1060	1.0804	1.1163	1.0913	Ave		1.1553			0.0000	9.3	15.0				
Benzo[b]fluoranthene	1.0729 1.0767	0.9591 1.0902	0.9699	1.0114	1.1373	Ave		1.0453			0.0000	6.4	15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88118-1 Analy Batch No.: 134776
 SDG No.: 68088118-1
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N
 Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Benzo[k]fluoranthene	1.0803 1.0851	0.9472 1.1214	1.1337	1.1178	1.0210	Ave		1.0724			0.0000	6.2	15.0				
Benzo[a]pyrene	0.9920 1.0612	0.9445 1.0775	0.9754	1.0337	1.0234	Ave		1.0154			0.0000	4.7	15.0				
Indeno[1,2,3-cd]pyrene	0.9988 0.9513	0.8331 1.0162	0.9231	0.9673	0.9964	Ave		0.9552			0.0000	6.5	15.0				
Dibenz(a,h)anthracene	0.9790 0.9541	0.8572 0.9549	0.9225	0.9559	0.9165	Ave		0.9343			0.0000	4.3	15.0				
Benzo[g,h,i]perylene	1.0736 0.9972	0.9178 1.0017	1.0049	1.0311	0.9680	Ave		0.9992			0.0000	4.9	15.0				
o-Terphenyl	0.5990 0.6241	0.5420 0.6195	0.6120	0.6306	0.6003	Ave		0.6039			0.0000	4.9	15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88118-1 Analy Batch No.: 134776

SDG No.: 68088118-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	5702 977462	31413 1788680	148399	315626	643945	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	4328 647691	19516 1170415	92089	212804	439231	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	3289 595177	17615 1106965	92698	202550	396283	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	7443 1208002	33214 2158422	172573	371048	771781	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	5407 706037	21590 1241216	109910	222376	450754	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	5412 961751	28314 1689190	132137	295086	610839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	11408 1575924	51473 2774518	234717	474400	1014750	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	10196 1605221	45666 2853457	234701	496179	1007571	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	9564 1379814	39992 2470847	206292	442919	917432	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	11431 1826908	49039 3133704	264484	553174	1173070	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12023 1978030	58472 3458322	286919	587163	1289224	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	17074 2005529	62799 3342573	295256	598352	1287277	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15552 2071419	64086 3423784	293675	616185	1322748	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	13018 2159068	56338 3419972	280988	609549	1514965	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	13108 2175966	55640 3517880	328460	673624	1360131	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88118-1 Analy Batch No.: 134776

SDG No.: 68088118-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	12036	55481	282594	622966	1363217	0.200	1.00	5.00	10.0	20.0
			2128065	3380087				30.0	50.0			
Indeno[1,2,3-cd]pyrene	PRY	Ave	12119	48940	267436	582935	1327322	0.200	1.00	5.00	10.0	20.0
			1907725	3187834				30.0	50.0			
Dibenz(a,h)anthracene	PRY	Ave	11879	50354	267252	576071	1220845	0.200	1.00	5.00	10.0	20.0
			1913283	2995648				30.0	50.0			
Benzo[g,h,i]perylene	PRY	Ave	13026	53913	291148	621425	1289503	0.200	1.00	5.00	10.0	20.0
			1999689	3142464				30.0	50.0			
o-Terphenyl	PHN	Ave	5163	23584	126358	272397	558161	0.200	1.00	5.00	10.0	20.0
			872937	1512079				30.0	50.0			

Curve Type Legend:

Ave = Average ISTD

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C022213.b\1CB22003.D
 Lab Smp Id: IC-1512358
 Inj Date : 22-FEB-2013 11:57
 Operator : SCC
 Smp Info : IC-1512358
 Misc Info :
 Comment :
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C022213.b\1CB22003.D\1CB22003.D
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 3 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1174200	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	901777	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1723779	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	5163	0.20000	0.1983
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2248468	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2426654	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	5702	0.20000	0.1865(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	4328	0.20000	0.2122
4 1-Methylnaphthalene	142	4.310	4.310	(1.133)	3289	0.20000	0.1771
5 Acenaphthylene	152	4.804	4.804	(0.982)	7443	0.20000	0.2047
7 Acenaphthene	154	4.915	4.915	(1.005)	5407	0.20000	0.2392
9 Fluorene	166	5.233	5.233	(1.070)	5412	0.20000	0.1893
11 Phenanthrene	178	5.862	5.862	(1.003)	11408	0.20000	0.2288
12 Anthracene	178	5.898	5.898	(1.009)	10196	0.20000	0.2091
13 Carbazole	167	6.004	6.004	(1.027)	9564	0.20000	0.2207
15 Fluoranthene	202	6.704	6.704	(1.147)	11431	0.20000	0.2094
16 Pyrene	202	6.874	6.874	(0.882)	12023	0.20000	0.1989
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	17074	0.20000	0.2631
19 Chrysene	228	7.815	7.815	(1.002)	15552	0.20000	0.2394
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	13018	0.20000	0.2052
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	13108	0.20000	0.2014
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	12036	0.20000	0.1953
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	12119	0.20000	0.2001(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	11879	0.20000	0.2095
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	13026	0.20000	0.2148

QC Flag Legend

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

Data File: 1CB22003.D

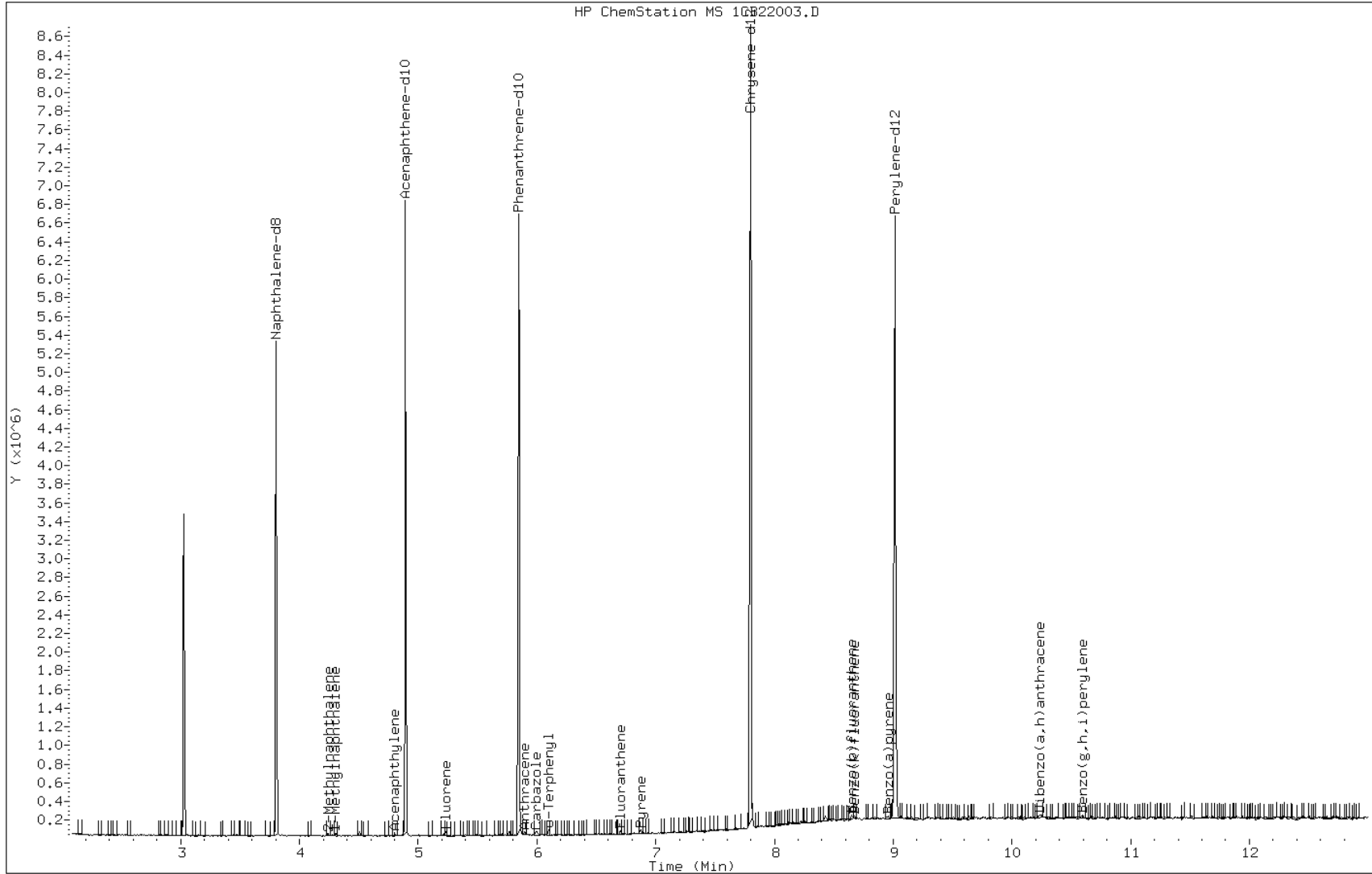
Date: 22-FEB-2013 11:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512358

Operator: SCC

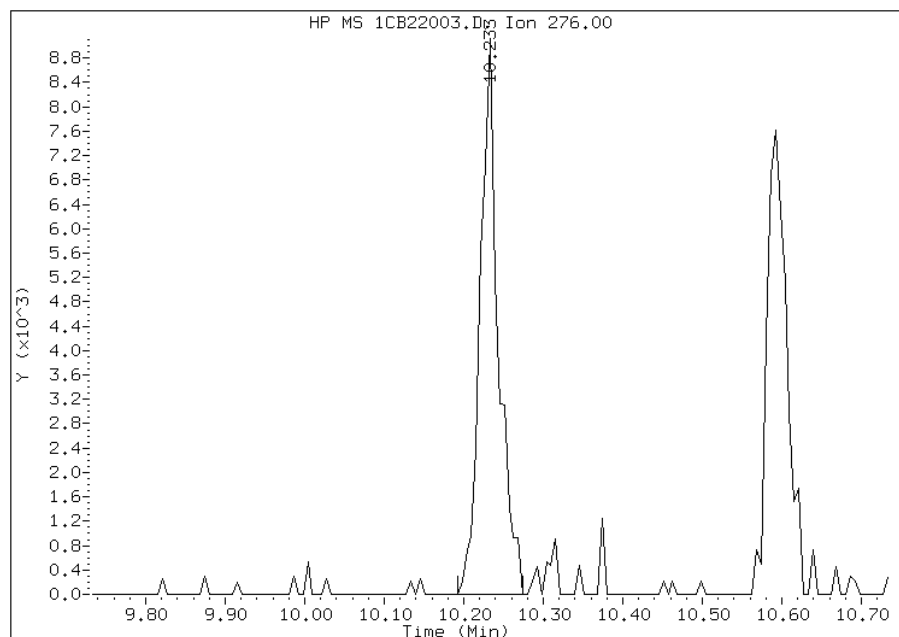


Manual Integration Report

Data File: 1CB22003.D
Inj. Date and Time: 22-FEB-2013 11:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

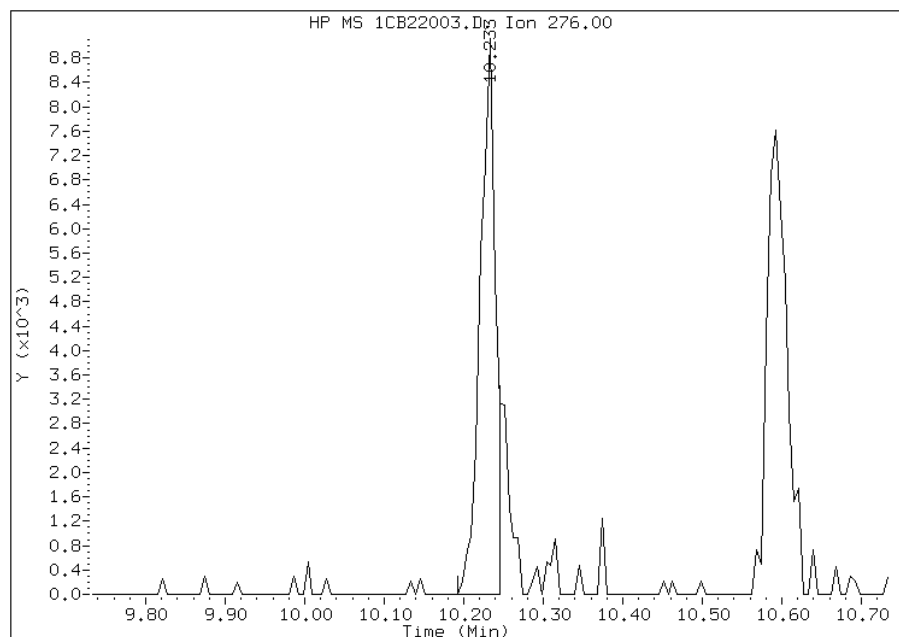
Processing Integration Results

RT: 10.23
Response: 14380
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.23
Response: 12119
Amount: 0
Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:13
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22004.D
 Lab Smp Id: IC-1512359
 Inj Date : 22-FEB-2013 12:16
 Operator : SCC
 Smp Info : IC-1512359
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 11:57 Cal File: 1CB22003.D
 Als bottle: 4 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1243608	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	931732	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1740509	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	23584	1.00000	0.8974
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2144273	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2349732	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	31413	1.00000	0.9702(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	19516	1.00000	0.9036
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	17615	1.00000	0.8955
5 Acenaphthylene	152	4.804	4.804	(0.982)	33214	1.00000	0.8841
7 Acenaphthene	154	4.910	4.910	(1.004)	21590	1.00000	0.9246
9 Fluorene	166	5.233	5.233	(1.070)	28314	1.00000	0.9588
11 Phenanthrene	178	5.862	5.862	(1.003)	51473	1.00000	1.0227
12 Anthracene	178	5.898	5.898	(1.009)	45666	1.00000	0.9277
13 Carbazole	167	6.004	6.004	(1.027)	39992	1.00000	0.9140
15 Fluoranthene	202	6.704	6.704	(1.147)	49039	1.00000	0.8897
16 Pyrene	202	6.874	6.874	(0.882)	58472	1.00000	1.0147
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	62799	1.00000	1.0147
19 Chrysene	228	7.815	7.815	(1.002)	64086	1.00000	1.0347
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	56338	1.00000	0.9174
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	55640	1.00000	0.8832
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	55481	1.00000	0.9301
24 Indeno(1,2,3-cd)pyrene	276	10.221	10.221	(1.134)	48940	1.00000	0.8346(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	50354	1.00000	0.9174
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	53913	1.00000	0.9185

QC Flag Legend

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

Data File: 1CB22004.D

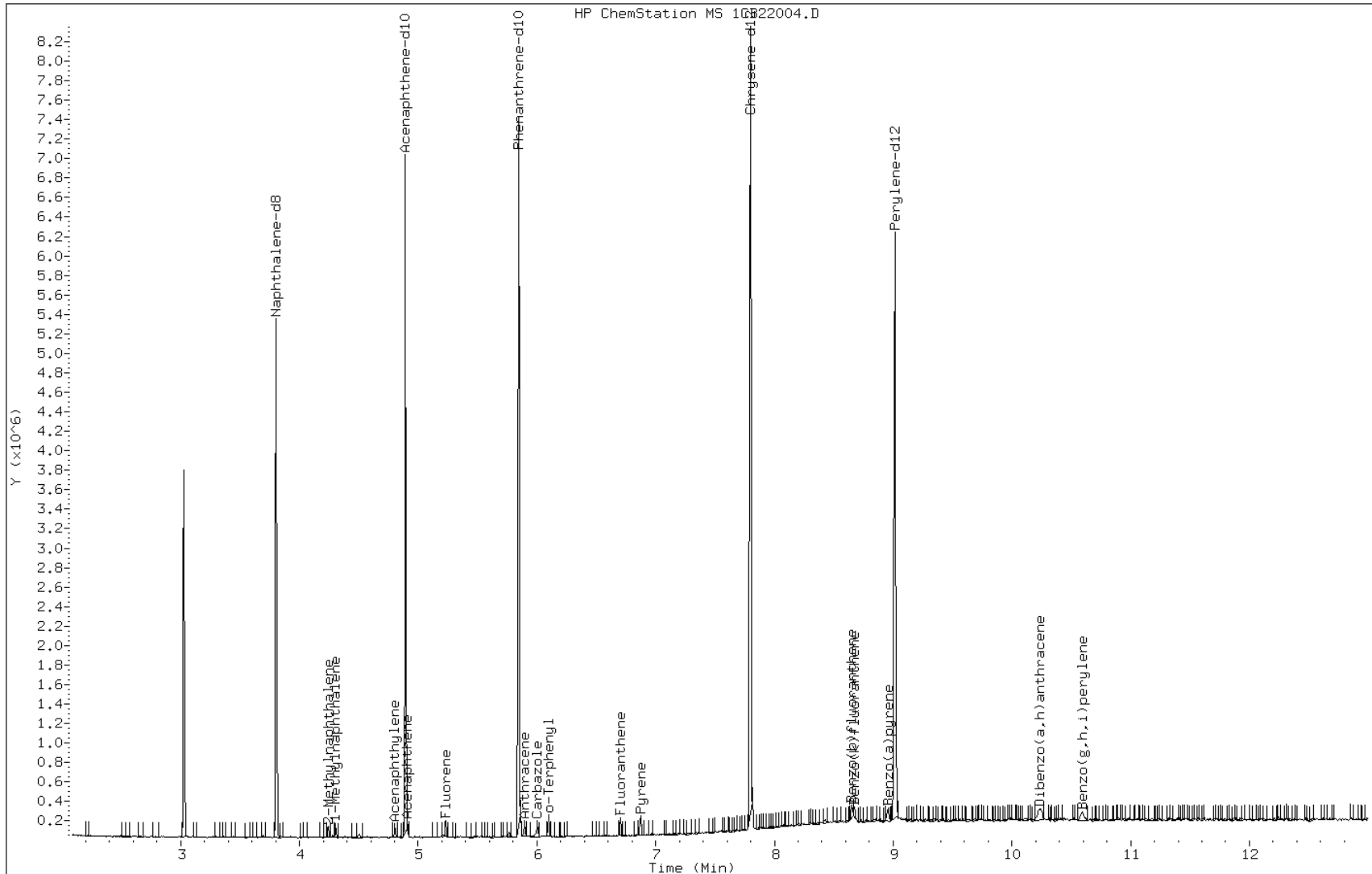
Date: 22-FEB-2013 12:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512359

Operator: SCC

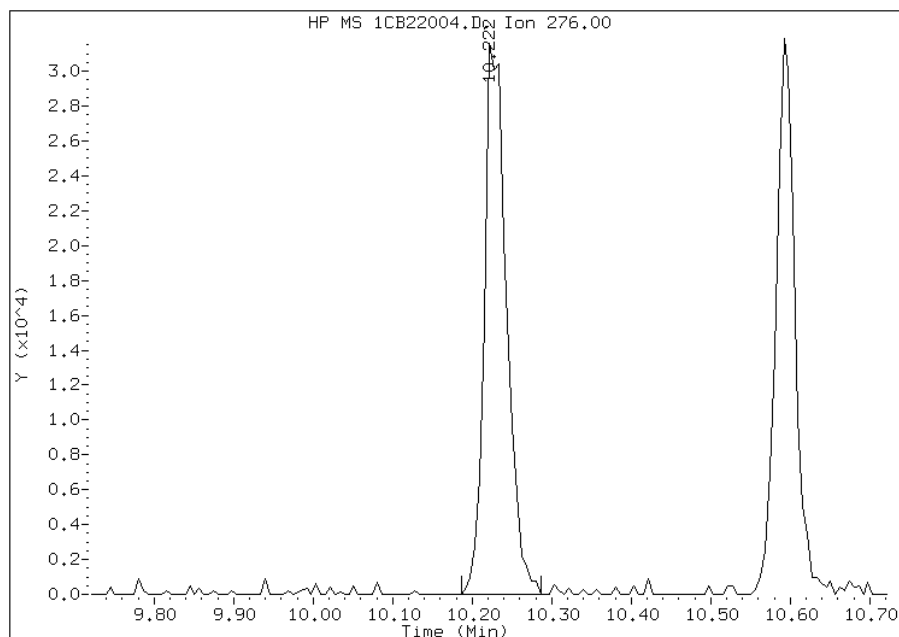


Manual Integration Report

Data File: 1CB22004.D
Inj. Date and Time: 22-FEB-2013 12:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

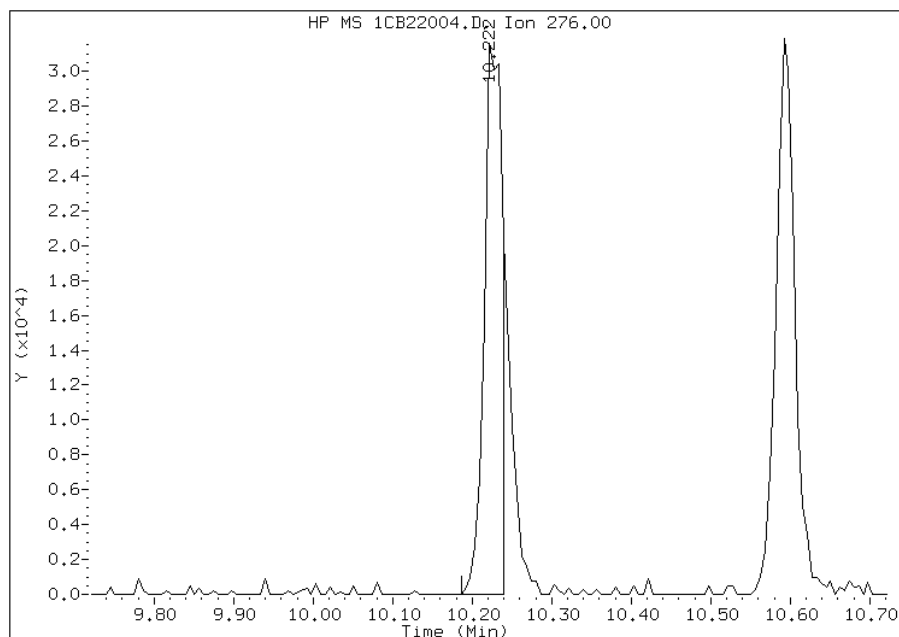
Processing Integration Results

RT: 10.22
Response: 61246
Amount: 1
Conc: 1



Manual Integration Results

RT: 10.22
Response: 48940
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22005.D
 Lab Smp Id: IC-1512360
 Inj Date : 22-FEB-2013 12:34
 Operator : SCC
 Smp Info : IC-1512360
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:16 Cal File: 1CB22004.D
 Als bottle: 5 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1133793	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	874757	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1651631	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	126358	5.00000	5.0671
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2174554	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2317716	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	148399	5.00000	5.0275
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	92089	5.00000	4.6771
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	92698	5.00000	5.1694
5 Acenaphthylene	152	4.804	4.804	(0.982)	172573	5.00000	4.8932
7 Acenaphthene	154	4.910	4.910	(1.004)	109910	5.00000	5.0139
9 Fluorene	166	5.233	5.233	(1.070)	132137	5.00000	4.7663
11 Phenanthrene	178	5.863	5.863	(1.003)	234717	5.00000	4.9147
12 Anthracene	178	5.898	5.898	(1.009)	234701	5.00000	5.0249
13 Carbazole	167	6.004	6.004	(1.027)	206292	5.00000	4.9685
15 Fluoranthene	202	6.704	6.704	(1.147)	264484	5.00000	5.0569
16 Pyrene	202	6.874	6.874	(0.882)	286919	5.00000	4.9098
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	295256	5.00000	4.7043
19 Chrysene	228	7.815	7.815	(1.002)	293675	5.00000	4.6756
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	280988	5.00000	4.6390
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	328460	5.00000	5.2861
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	282594	5.00000	4.8032
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	267436	5.00000	4.6238(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	267252	5.00000	4.9366
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	291148	5.00000	5.0287

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22005.D

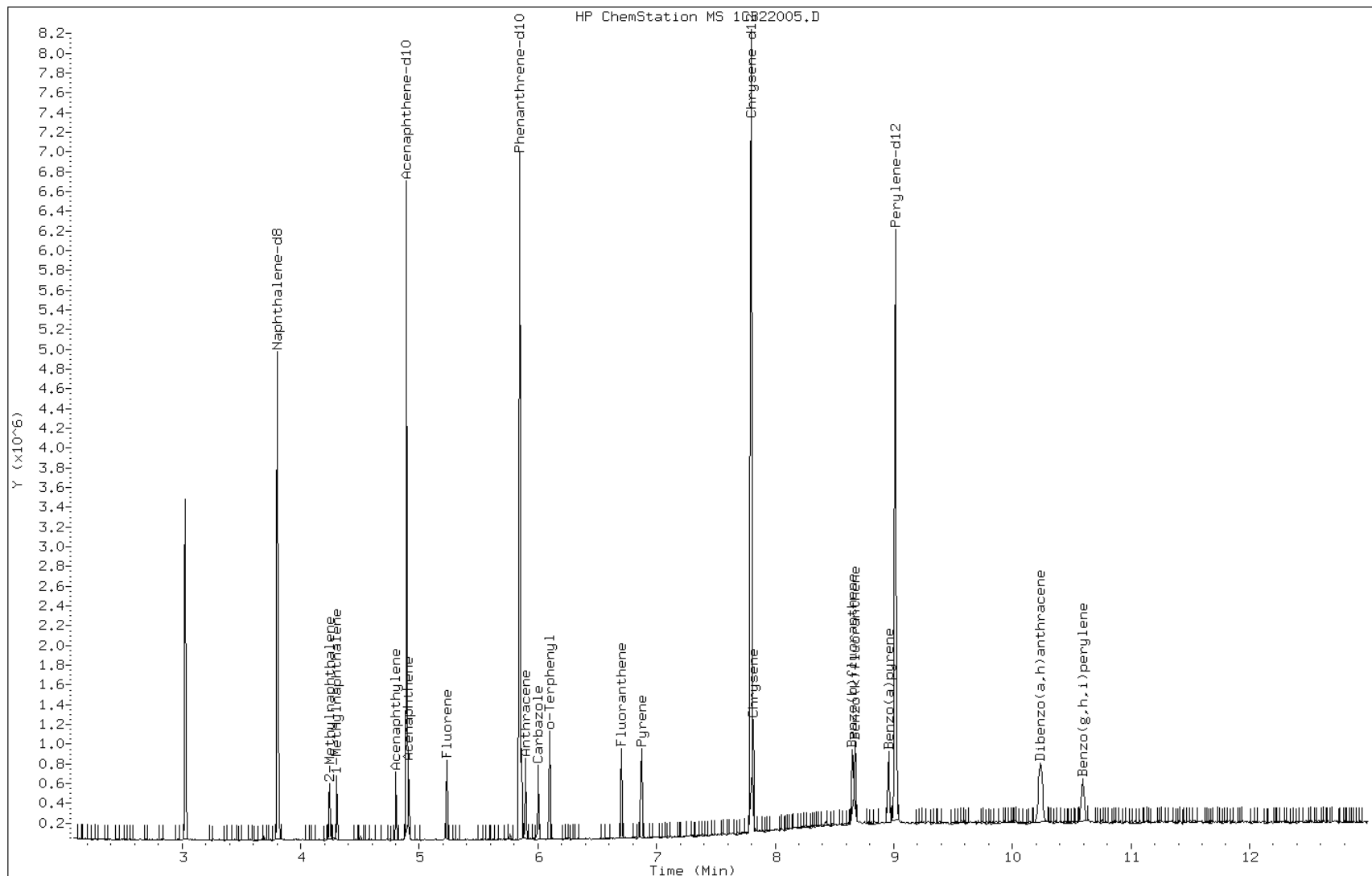
Date: 22-FEB-2013 12:34

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512360

Operator: SCC

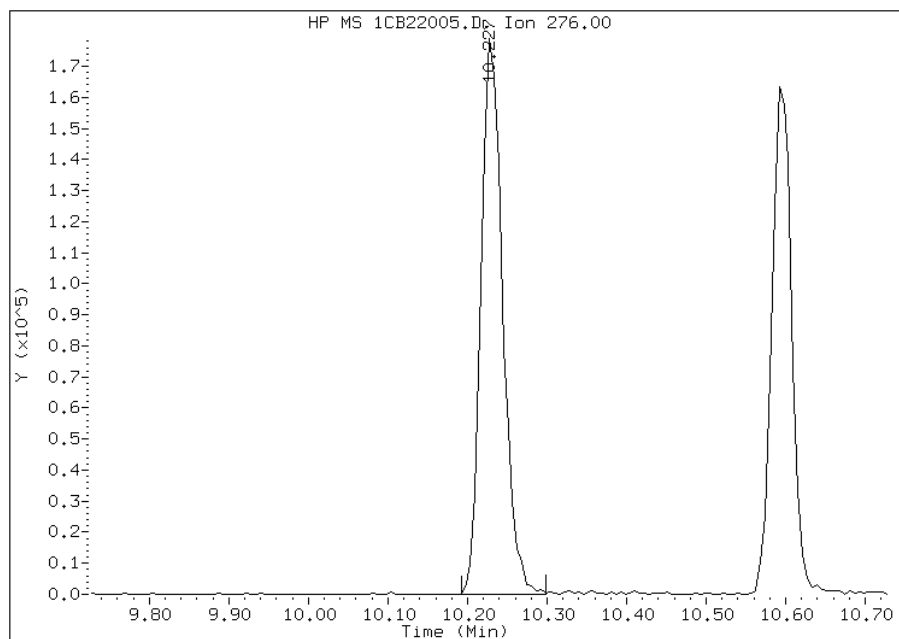


Manual Integration Report

Data File: 1CB22005.D
Inj. Date and Time: 22-FEB-2013 12:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

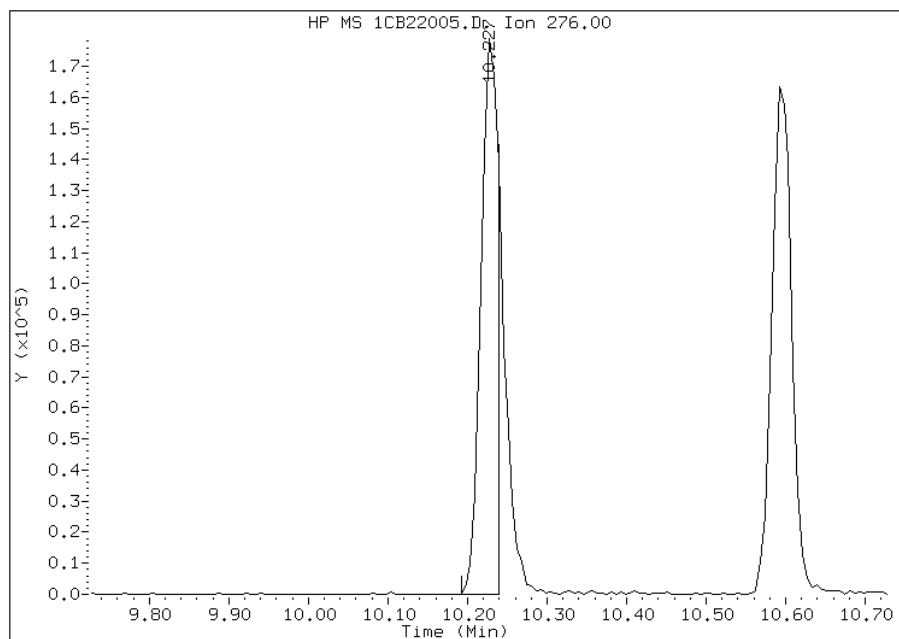
Processing Integration Results

RT: 10.23
Response: 336913
Amount: 6
Conc: 6



Manual Integration Results

RT: 10.23
Response: 267436
Amount: 5
Conc: 5



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22006.D
 Lab Smp Id: IC-1512361
 Inj Date : 22-FEB-2013 12:53
 Operator : SCC
 Smp Info : IC-1512361
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:34 Cal File: 1CB22005.D
 Als bottle: 6 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1161301	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	893287	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1727894	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	272397	10.0000	10.4413
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2207928	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2410622	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	315626	10.0000	10.4397
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	212804	10.0000	10.5522
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	202550	10.0000	11.0278
5 Acenaphthylene	152	4.804	4.804	(0.982)	371048	10.0000	10.3027
7 Acenaphthene	154	4.910	4.910	(1.004)	222376	10.0000	9.9341
9 Fluorene	166	5.233	5.233	(1.070)	295086	10.0000	10.4233
11 Phenanthrene	178	5.862	5.862	(1.003)	474400	10.0000	9.4950
12 Anthracene	178	5.898	5.898	(1.009)	496179	10.0000	10.1543
13 Carbazole	167	6.004	6.004	(1.027)	442919	10.0000	10.1969
15 Fluoranthene	202	6.704	6.704	(1.147)	553174	10.0000	10.1099
16 Pyrene	202	6.874	6.874	(0.882)	587163	10.0000	9.8957
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	598352	10.0000	9.3895
19 Chrysene	228	7.815	7.815	(1.002)	616185	10.0000	9.6621
20 Benzo(b)fluoranthene	252	8.650	8.650	(0.960)	609549	10.0000	9.6756
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	673624	10.0000	10.4233
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	622966	10.0000	10.1804
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	582935	10.0000	9.6902(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	576071	10.0000	10.2310
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	621425	10.0000	10.3197

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22006.D

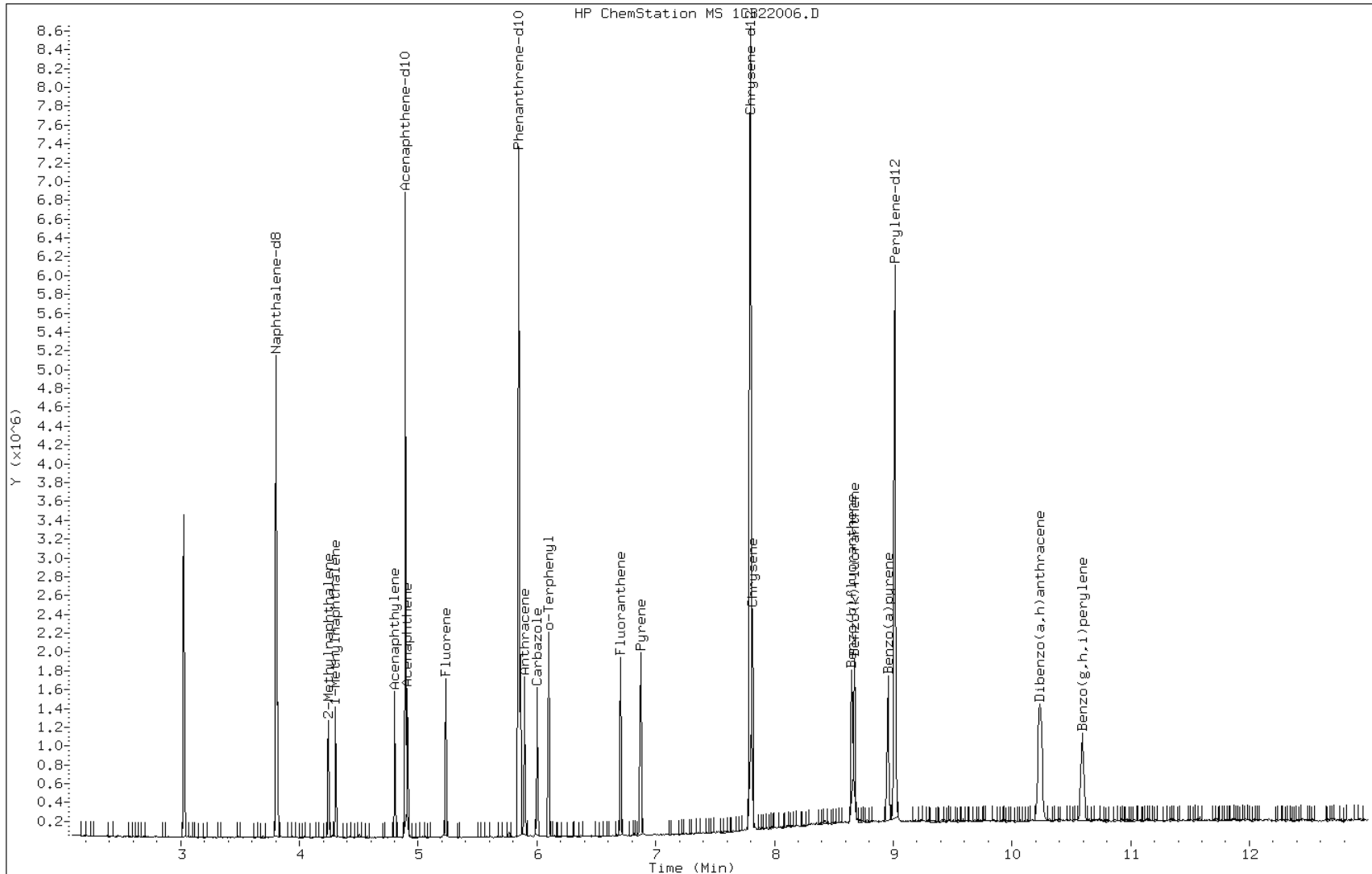
Date: 22-FEB-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512361

Operator: SCC

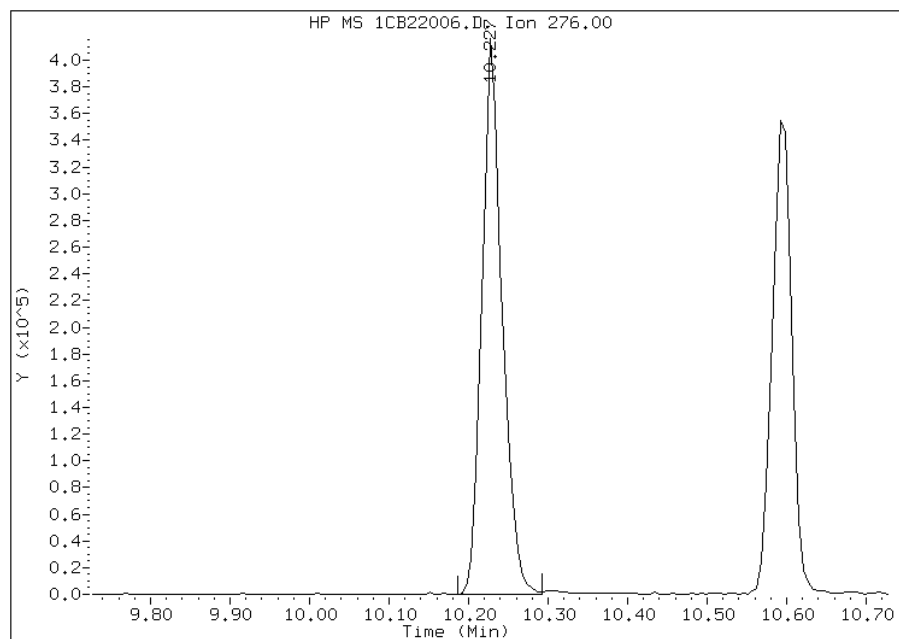


Manual Integration Report

Data File: 1CB22006.D
Inj. Date and Time: 22-FEB-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

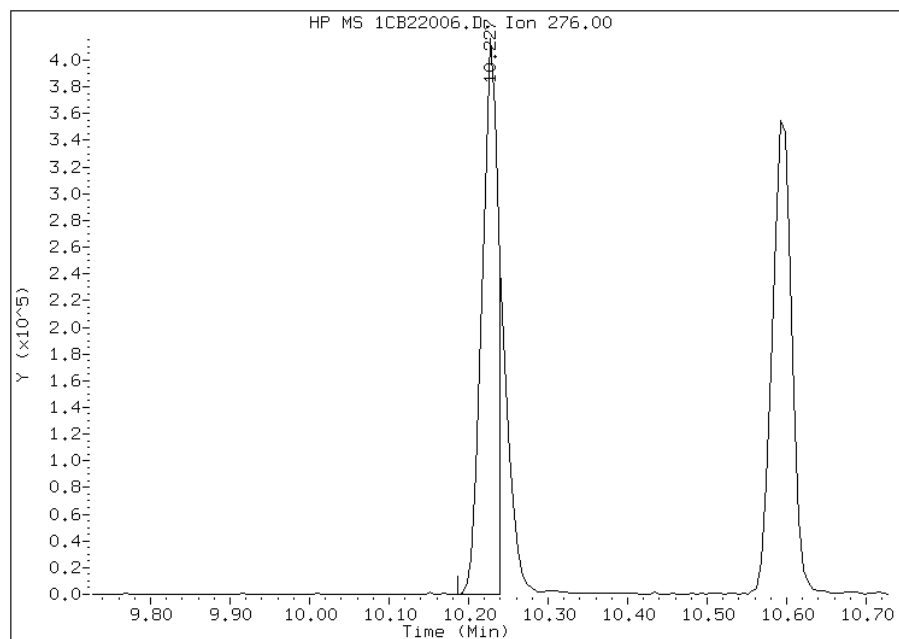
Processing Integration Results

RT: 10.23
Response: 727358
Amount: 13
Conc: 13



Manual Integration Results

RT: 10.23
Response: 582935
Amount: 10
Conc: 10



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C022213.b\1CB22007.D
 Lab Smp Id: ICIS-1512372
 Inj Date : 22-FEB-2013 13:11
 Operator : SCC
 Smp Info : ICIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:53 Cal File: 1CB22006.D
 Als bottle: 7 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1215005	40.0000		
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	932815	40.0000		
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1859738	40.0000		
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	558161	20.0000	19.8783	
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2424157	40.0000		
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2664188	40.0000		
2 Naphthalene	128	3.816	3.816	(1.003)	643945	20.0000	20.3579	
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	439231	20.0000	20.8172	
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	396283	20.0000	20.6220	
5 Acenaphthylene	152	4.804	4.804	(0.982)	771781	20.0000	20.5216	
7 Acenaphthene	154	4.910	4.910	(1.004)	450754	20.0000	19.2831	
9 Fluorene	166	5.233	5.233	(1.070)	610839	20.0000	20.6625	
11 Phenanthrene	178	5.863	5.863	(1.003)	1014750	20.0000	18.8701	
12 Anthracene	178	5.898	5.898	(1.009)	1007571	20.0000	19.1582	
13 Carbazole	167	6.004	6.004	(1.027)	917432	20.0000	19.6239	
15 Fluoranthene	202	6.704	6.704	(1.147)	1173070	20.0000	19.9194	
16 Pyrene	202	6.874	6.874	(0.882)	1289224	20.0000	19.7898	
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1287277	20.0000	18.3986	
19 Chrysene	228	7.815	7.815	(1.002)	1322748	20.0000	18.8914	
20 Benzo(b)fluoranthene	252	8.657	8.657	(0.960)	1514965	20.0000	21.7588	
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1360131	20.0000	19.0428	
22 Benzo(a)pyrene	252	8.957	8.957	(0.993)	1363217	20.0000	20.1573	
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1327322	20.0000	19.9642(M)	
25 Dibenzo(a,h)anthracene	278	10.251	10.251	(1.137)	1220845	20.0000	19.6186	
26 Benzo(g,h,i)perylene	276	10.598	10.598	(1.175)	1289503	20.0000	19.3760	

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22007.D

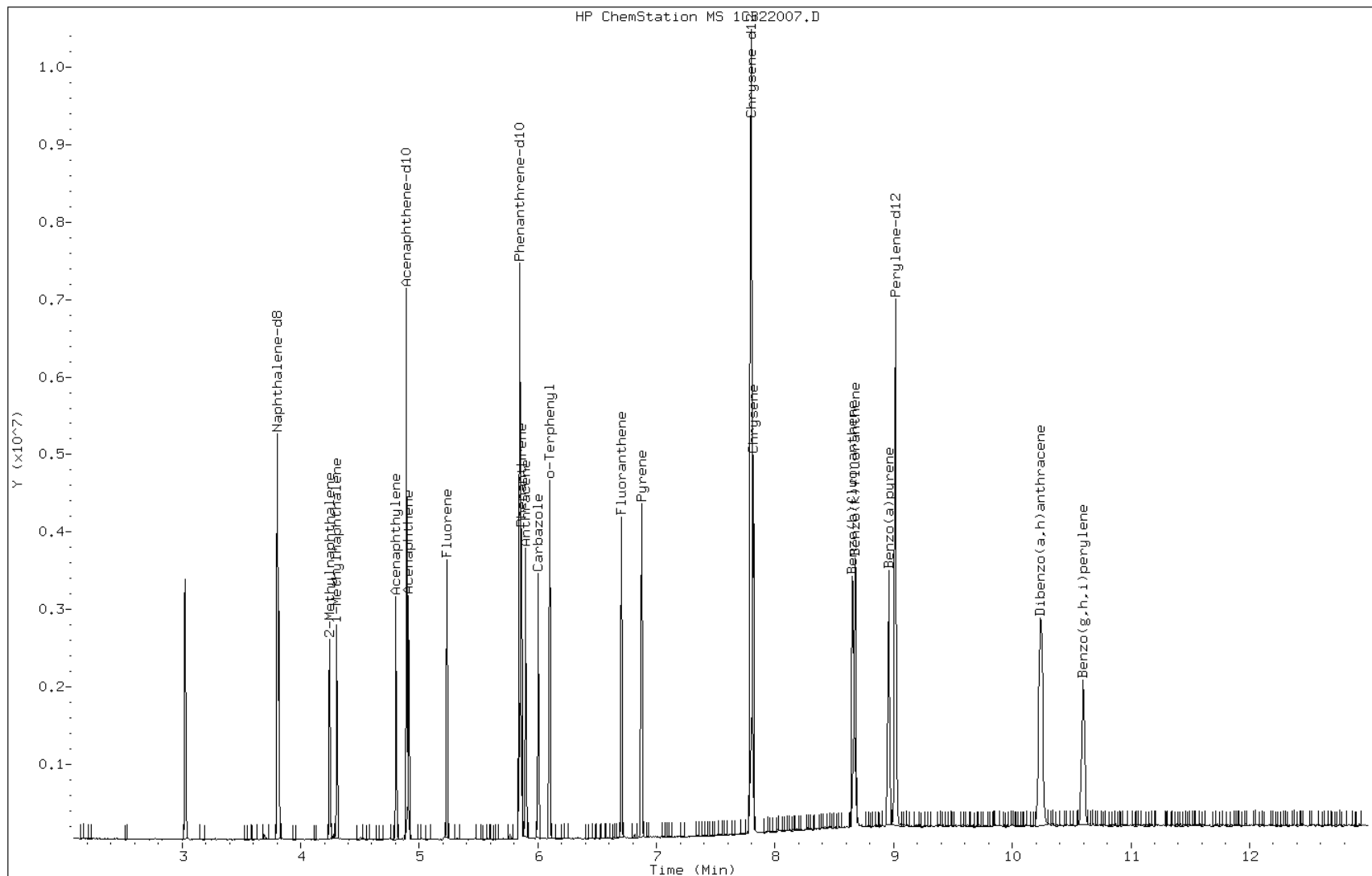
Date: 22-FEB-2013 13:11

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1512372

Operator: SCC

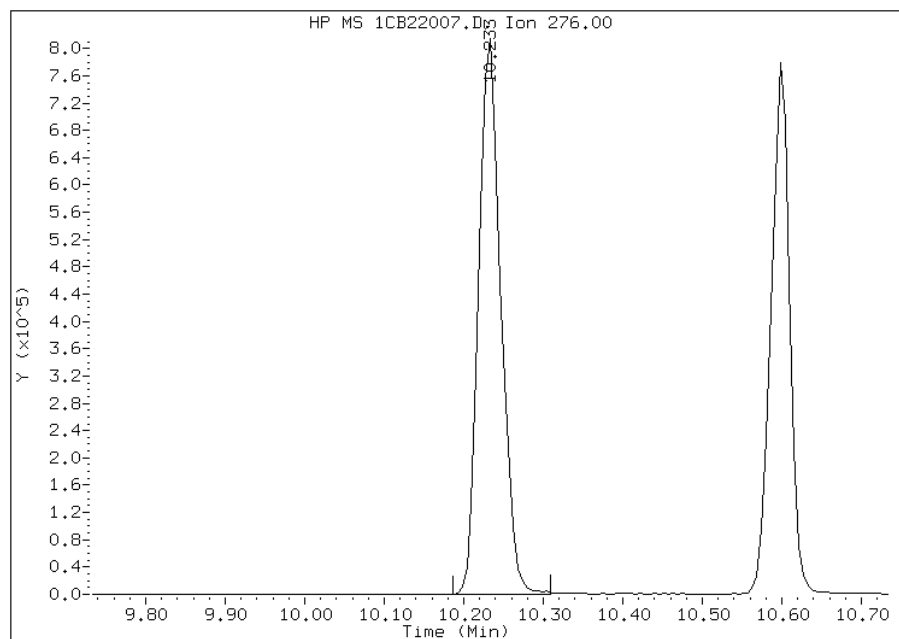


Manual Integration Report

Data File: 1CB22007.D
Inj. Date and Time: 22-FEB-2013 13:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

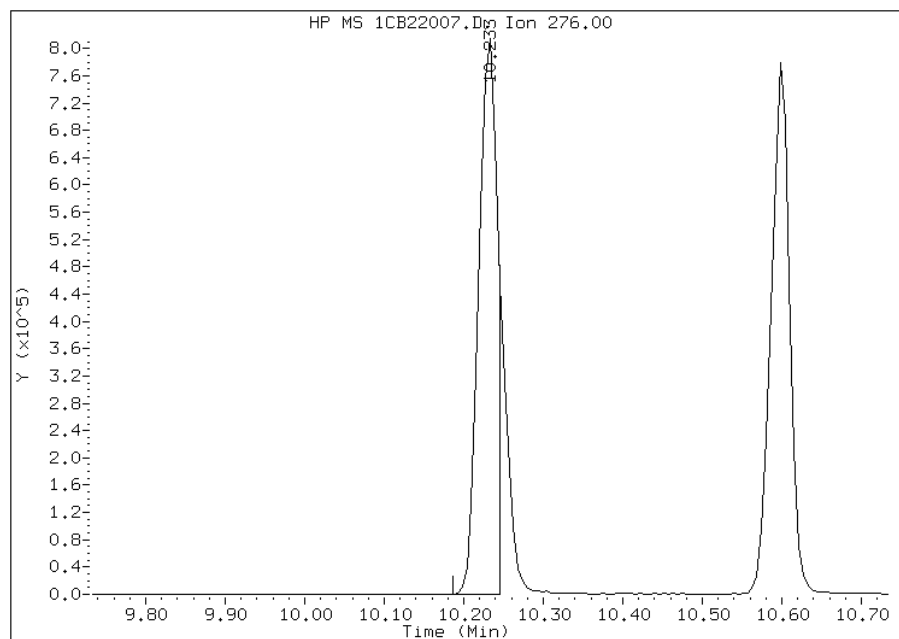
Processing Integration Results

RT: 10.23
Response: 1569498
Amount: 25
Conc: 25



Manual Integration Results

RT: 10.23
Response: 1327322
Amount: 20
Conc: 20



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:11
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22008.D
 Lab Smp Id: IC-1512373
 Inj Date : 22-FEB-2013 13:29
 Operator : SCC
 Smp Info : IC-1512373
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:11 Cal File: 1CB22007.D
 Als bottle: 8 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		3.804	3.804	(1.000)	1245095	40.0000	
* 6 Acenaphthene-d10	164		4.892	4.892	(1.000)	988838	40.0000	
* 10 Phenanthrene-d10	188		5.845	5.845	(1.000)	1864829	40.0000	
\$ 14 o-Terphenyl	230		6.098	6.098	(1.043)	872937	30.0000	31.0038
* 18 Chrysene-d12	240		7.798	7.798	(1.000)	2477918	40.0000	
* 23 Perylene-d12	264		9.015	9.015	(1.000)	2673716	40.0000	
2 Naphthalene	128		3.816	3.816	(1.003)	977462	30.0000	30.1550
3 2-Methylnaphthalene	142		4.245	4.245	(1.116)	647691	30.0000	29.9553
4 1-Methylnaphthalene	142		4.304	4.304	(1.131)	595177	30.0000	30.2237
5 Acenaphthylene	152		4.804	4.804	(0.982)	1208002	30.0000	30.3009
7 Acenaphthene	154		4.910	4.910	(1.004)	706037	30.0000	28.4928
9 Fluorene	166		5.233	5.233	(1.070)	961751	30.0000	30.6894
11 Phenanthrene	178		5.863	5.863	(1.003)	1575924	30.0000	29.2256
12 Anthracene	178		5.898	5.898	(1.009)	1605221	30.0000	30.4388
13 Carbazole	167		6.004	6.004	(1.027)	1379814	30.0000	29.4337
15 Fluoranthene	202		6.704	6.704	(1.147)	1826908	30.0000	30.9373
16 Pyrene	202		6.874	6.874	(0.882)	1978030	30.0000	29.7043
17 Benzo(a)anthracene	228		7.792	7.792	(0.999)	2005529	30.0000	28.0424
19 Chrysene	228		7.821	7.821	(1.003)	2071419	30.0000	28.9420
20 Benzo(b)fluoranthene	252		8.656	8.656	(0.960)	2159068	30.0000	30.8993
21 Benzo(k)fluoranthene	252		8.680	8.680	(0.963)	2175966	30.0000	30.3566
22 Benzo(a)pyrene	252		8.962	8.962	(0.994)	2128065	30.0000	31.3547
24 Indeno(1,2,3-cd)pyrene	276		10.233	10.233	(1.135)	1907725	30.0000	28.5918(M)
25 Dibenzo(a,h)anthracene	278		10.250	10.250	(1.137)	1913283	30.0000	30.6363
26 Benzo(g,h,i)perylene	276		10.603	10.603	(1.176)	1999689	30.0000	29.9402

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22008.D

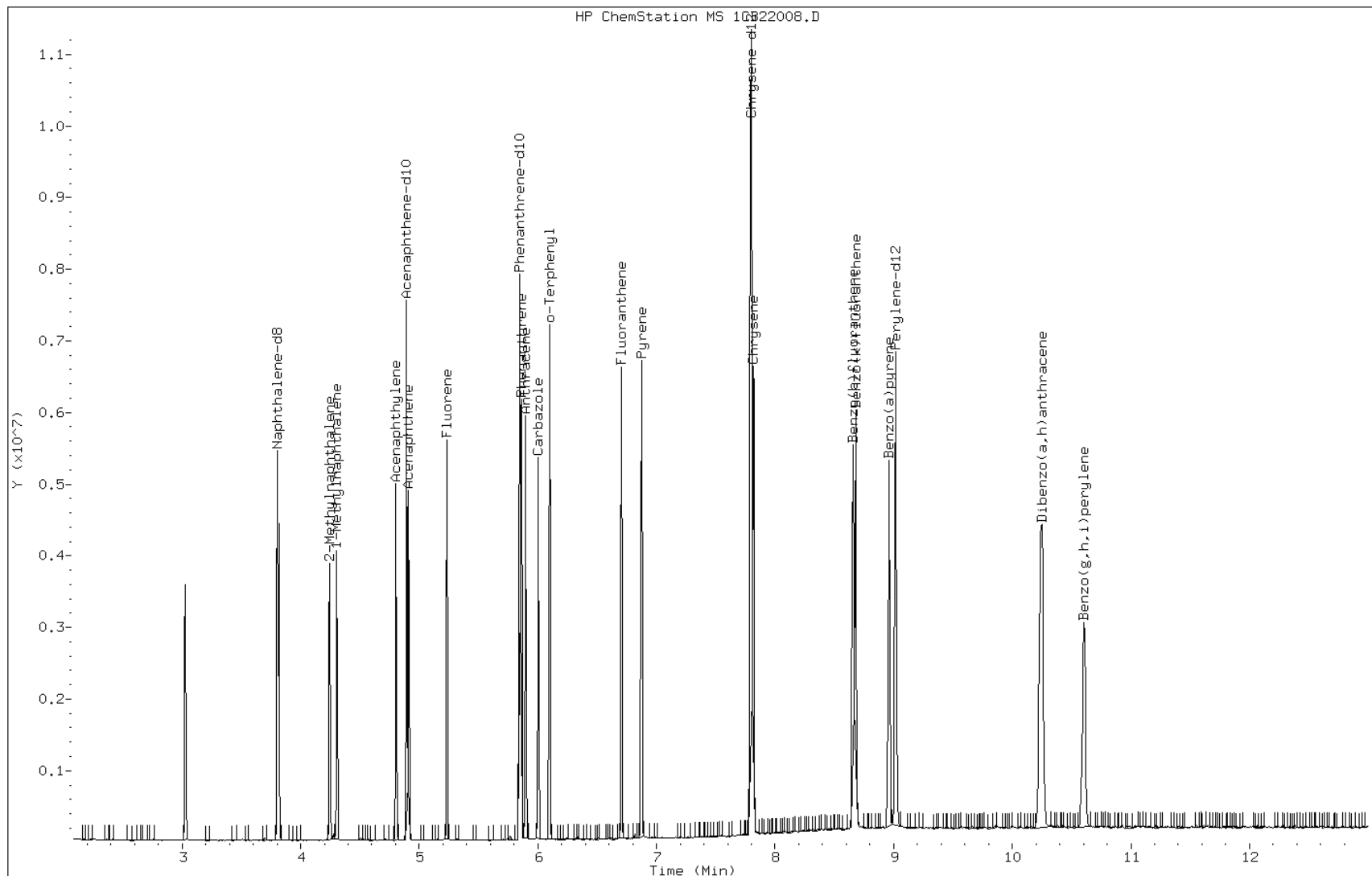
Date: 22-FEB-2013 13:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512373

Operator: SCC

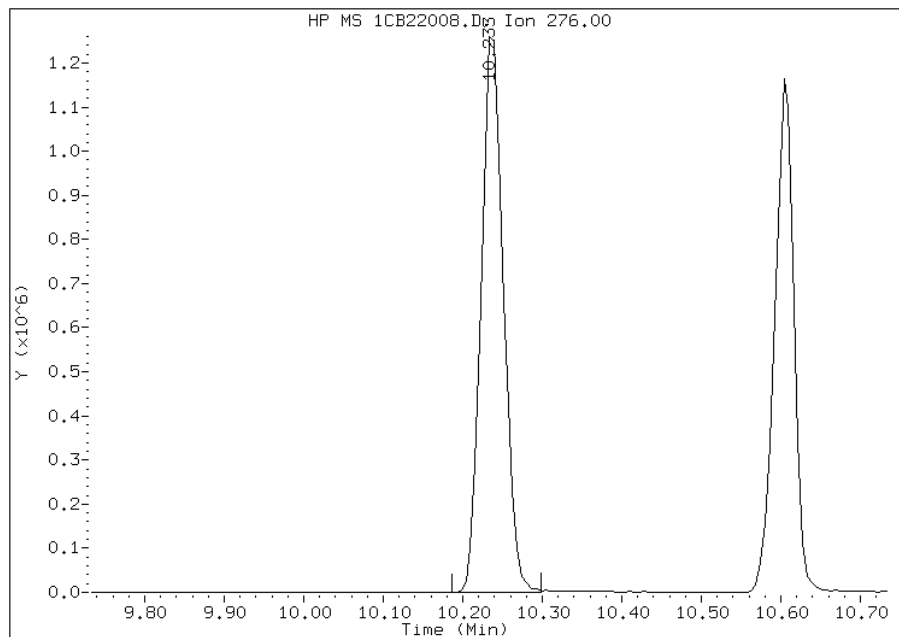


Manual Integration Report

Data File: 1CB22008.D
Inj. Date and Time: 22-FEB-2013 13:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

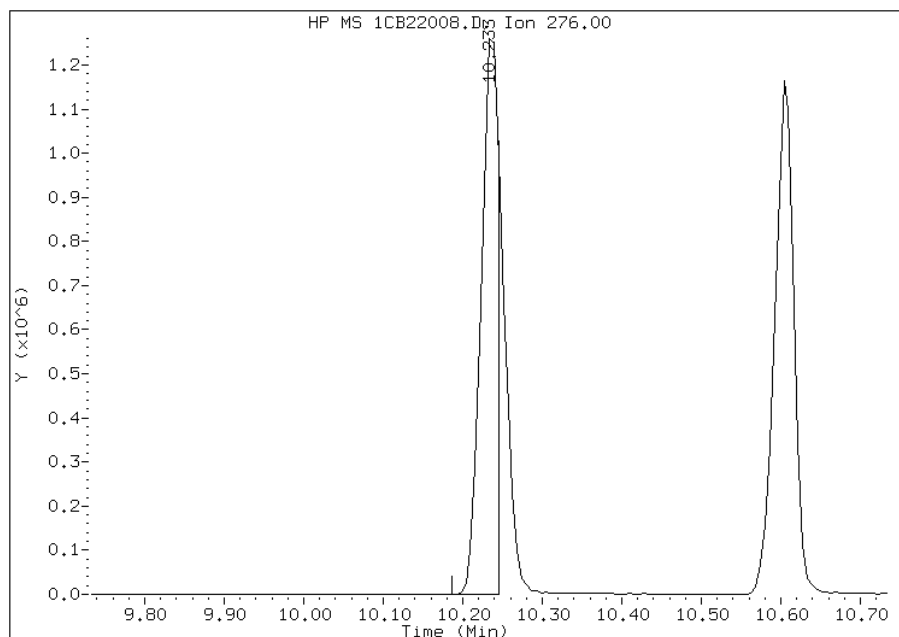
Processing Integration Results

RT: 10.23
Response: 2435528
Amount: 36
Conc: 36



Manual Integration Results

RT: 10.23
Response: 1907725
Amount: 29
Conc: 29



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22009.D
 Lab Smp Id: IC-1512374
 Inj Date : 22-FEB-2013 13:48
 Operator : SCC
 Smp Info : IC-1512374
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:29 Cal File: 1CB22008.D
 Als bottle: 9 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					ON-COL
			CAL-AMT	ON-COL	REL RT	RESPONSE	(ug/ml)	
MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)		
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1341221	40.0000		
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1022497	40.0000		
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1952764	40.0000		
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	1512079	50.0000	51.2857(A)	
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2476604	40.0000		
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2509650	40.0000		
2 Naphthalene	128	3.815	3.815	(1.003)	1788680	50.0000	51.2265(A)	
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	1170415	50.0000	50.2513(A)	
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	1106965	50.0000	52.1840(A)	
5 Acenaphthylene	152	4.804	4.804	(0.982)	2158422	50.0000	52.3585(A)	
7 Acenaphthene	154	4.910	4.910	(1.004)	1241216	50.0000	48.4415	
9 Fluorene	166	5.233	5.233	(1.070)	1689190	50.0000	52.1276(A)	
11 Phenanthrene	178	5.862	5.862	(1.003)	2774518	50.0000	49.1366	
12 Anthracene	178	5.898	5.898	(1.009)	2853457	50.0000	51.6717(A)	
13 Carbazole	167	6.004	6.004	(1.027)	2470847	50.0000	50.3338(A)	
15 Fluoranthene	202	6.704	6.704	(1.147)	3133704	50.0000	50.6773(A)	
16 Pyrene	202	6.874	6.874	(0.882)	3458322	50.0000	51.9617(A)	
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	3342573	50.0000	46.7626	
19 Chrysene	228	7.821	7.821	(1.003)	3423784	50.0000	47.8628	
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	3419972	50.0000	52.1444(A)	
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	3517880	50.0000	52.2859(A)	
22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	3380087	50.0000	53.0576(A)	
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.239	(1.136)	3187834	50.0000	50.9008(AM)	
25 Dibenzo(a,h)anthracene	278	10.256	10.256	(1.138)	2995648	50.0000	51.1034(A)	
26 Benzo(g,h,i)perylene	276	10.609	10.609	(1.177)	3142464	50.0000	50.1261(A)	

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File: 1CB22009.D

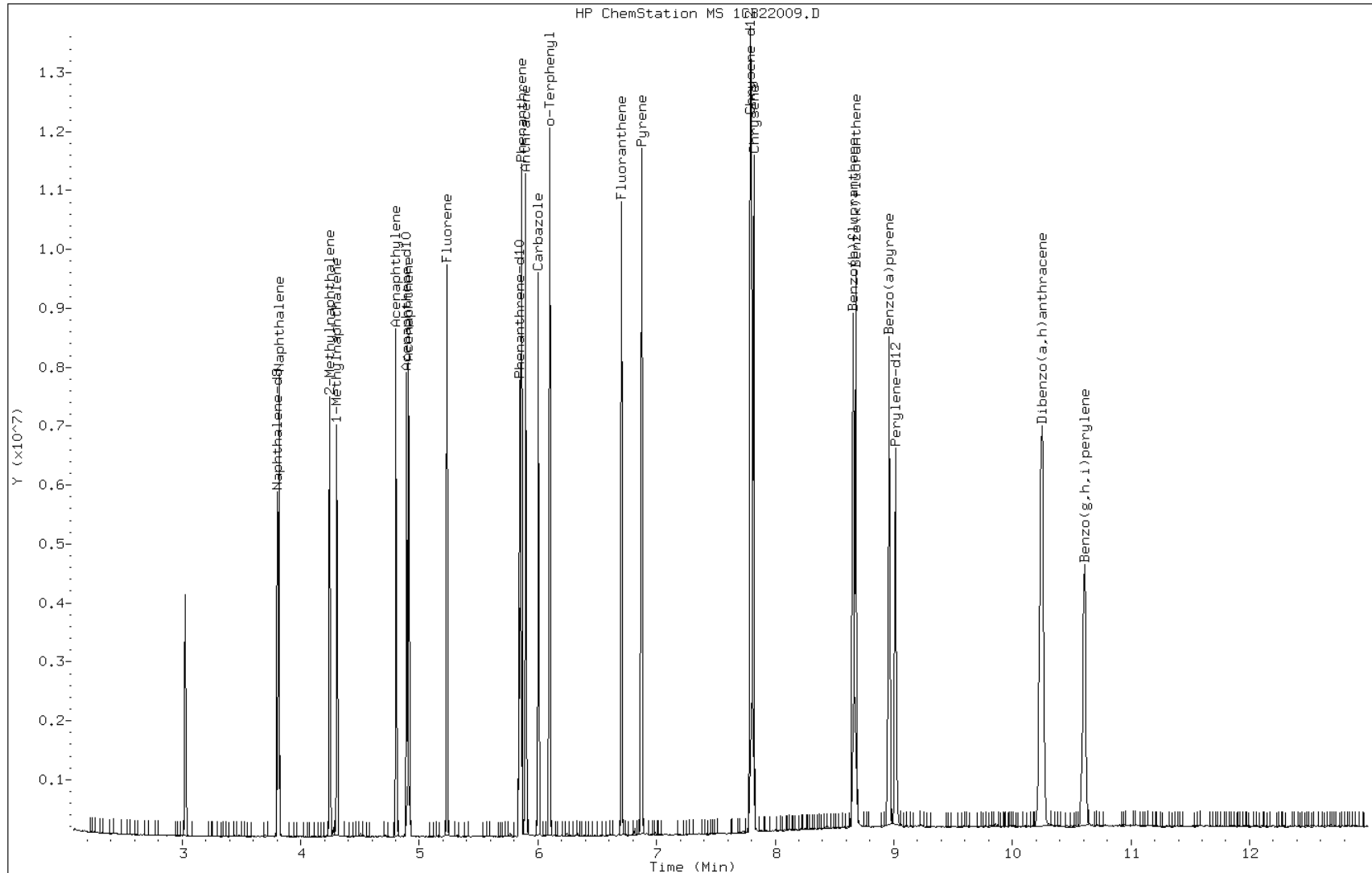
Date: 22-FEB-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512374

Operator: SCC

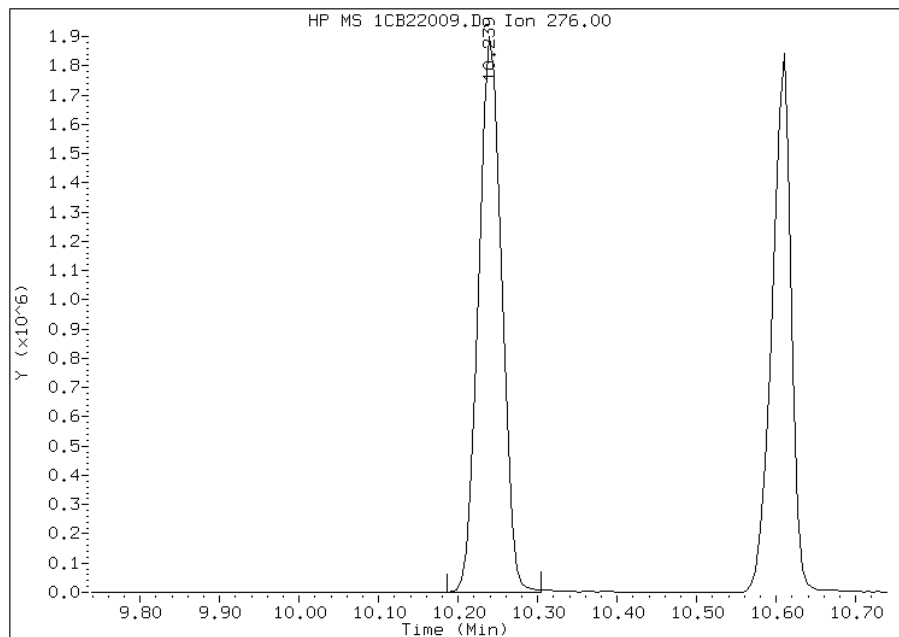


Manual Integration Report

Data File: 1CB22009.D
Inj. Date and Time: 22-FEB-2013 13:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

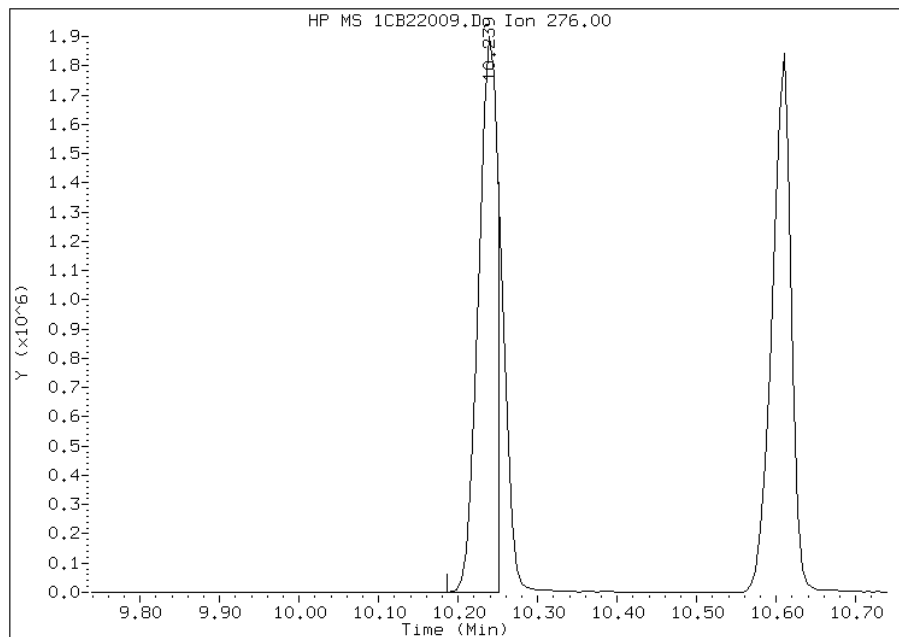
Processing Integration Results

RT: 10.24
Response: 3825990
Amount: 51
Conc: 51



Manual Integration Results

RT: 10.24
Response: 3187834
Amount: 51
Conc: 51



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Lab Sample ID: ICV 660-135466/10 Calibration Date: 03/15/2013 14:39
 Instrument ID: BSMA5973 Calib Start Date: 03/15/2013 12:54
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 03/15/2013 14:25
 Lab File ID: 1AC15010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9241	0.8127	0.0000	17600	20000	-12.1	35.0
2-Methylnaphthalene	Lin	0.4655	0.4454	0.0000	16600	20000	-17.0	35.0
1-Methylnaphthalene	Ave	0.5314	0.4701	0.0000	17700	20000	-11.5	35.0
Acenaphthylene	Qua	1.438	1.431	0.0000	18900	20000	-5.6	35.0
Acenaphthene	Qua	0.8158	0.7621	0.0000	17500	20000	-12.4	35.0
Fluorene	Qua	1.029	0.9558	0.0000	18100	20000	-9.3	35.0
Phenanthrene	Ave	1.014	0.8372	0.0000	16500	20000	-17.4	35.0
Anthracene	Ave	0.9830	0.8213	0.0000	16700	20000	-16.5	35.0
Carbazole	Ave	0.8616	0.6430	0.0000	14900	20000	-25.4	35.0
Fluoranthene	Ave	1.002	0.8708	0.0000	17400	20000	-13.1	35.0
Pyrene	Ave	1.147	0.9863	0.0000	17200	20000	-14.0	35.0
Benzo[a]anthracene	Lin	1.289	1.034	0.0000	18000	20000	-10.0	35.0
Chrysene	Ave	1.036	0.8884	0.0000	17200	20000	-14.2	35.0
Benzo[b]fluoranthene	Lin	0.9107	0.8244	0.0000	16200	20000	-19.2	35.0
Benzo[k]fluoranthene	Ave	1.079	0.9294	0.0000	17200	20000	-13.9	35.0
Benzo[a]pyrene	Ave	0.9387	0.6809	0.0000	14500	20000	-27.5	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.8470	0.6791	0.0000	16000	20000	-19.8	35.0
Dibenz(a,h)anthracene	Ave	0.8395	0.7632	0.0000	18200	20000	-9.1	35.0
Benzo[g,h,i]perylene	Ave	0.8526	0.6704	0.0000	15700	20000	-21.4	35.0
o-Terphenyl	Qua	0.5732	0.4541	0.0000	16500	20000	-17.6	35.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15010.D
 Lab Smp Id: ICV-1448440
 Inj Date : 15-MAR-2013 14:39
 Operator : SCC
 Smp Info : ICV-1448440
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\A-BFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 10 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Inst ID: BSMA5973.i
 Compound Sublist: pah.sub

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	2.305	2.303	(1.000)	495704	40.0000		
* 6 Acenaphthene-d10	164	3.325	3.324	(1.000)	291089	40.0000		
* 10 Phenanthrene-d10	188	4.250	4.248	(1.000)	473626	40.0000		
\$ 14 o-Terphenyl	230	4.522	4.526	(1.064)	107532	16.4780	16.4780	
* 18 Chrysene-d12	240	6.242	6.246	(1.000)	433094	40.0000		
* 23 Perylene-d12	264	7.327	7.330	(1.000)	475583	40.0000		
2 Naphthalene	128	2.316	2.314	(1.005)	201427	17.5881	17.5881	
3 2-Methylnaphthalene	141	2.716	2.715	(1.178)	110399	16.5942	16.5942	
4 1-Methylnaphthalene	142	2.770	2.773	(1.202)	116516	17.6931	17.6931	
5 Acenaphthylene	152	3.240	3.238	(0.974)	208291	18.8736	18.8735	
7 Acenaphthene	154	3.347	3.345	(1.006)	110915	17.5296	17.5296	
9 Fluorene	166	3.651	3.649	(1.098)	139114	18.1415	18.1415	
11 Phenanthrene	178	4.266	4.264	(1.004)	198264	16.5166	16.5166	
12 Anthracene	178	4.298	4.296	(1.011)	194486	16.7093	16.7093	
13 Carbazole	167	4.453	4.456	(1.048)	152266	14.9256	14.9256(M)	
15 Fluoranthene	202	5.110	5.113	(1.202)	206210	17.3785	17.3785	
16 Pyrene	202	5.275	5.279	(0.845)	213575	17.1991	17.1990	
17 Benzo(a)anthracene	228	6.237	6.235	(0.999)	223832	17.9907	17.9907	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/l)
-----	----	----	-----	-----	-----	-----	-----
19 Chrysene	228	6.258	6.262	(1.003)	192383	17.1506	17.1505
20 Benzo(b)fluoranthene	252	7.049	7.052	(0.962)	196044	16.1625	16.1625
21 Benzo(k)fluoranthene	252	7.070	7.074	(0.965)	221006	17.2278	17.2278
22 Benzo(a)pyrene	252	7.279	7.282	(0.993)	161910	14.5068	14.5068
24 Indeno(1,2,3-cd)pyrene	276	8.032	8.035	(1.096)	161474	16.0342	16.0342(M)
25 Dibenzo(a,h)anthracene	278	8.043	8.045	(1.098)	181488	18.1835	18.1835
26 Benzo(g,h,i)perylene	276	8.214	8.222	(1.121)	159418	15.7263	15.7262

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15010.D

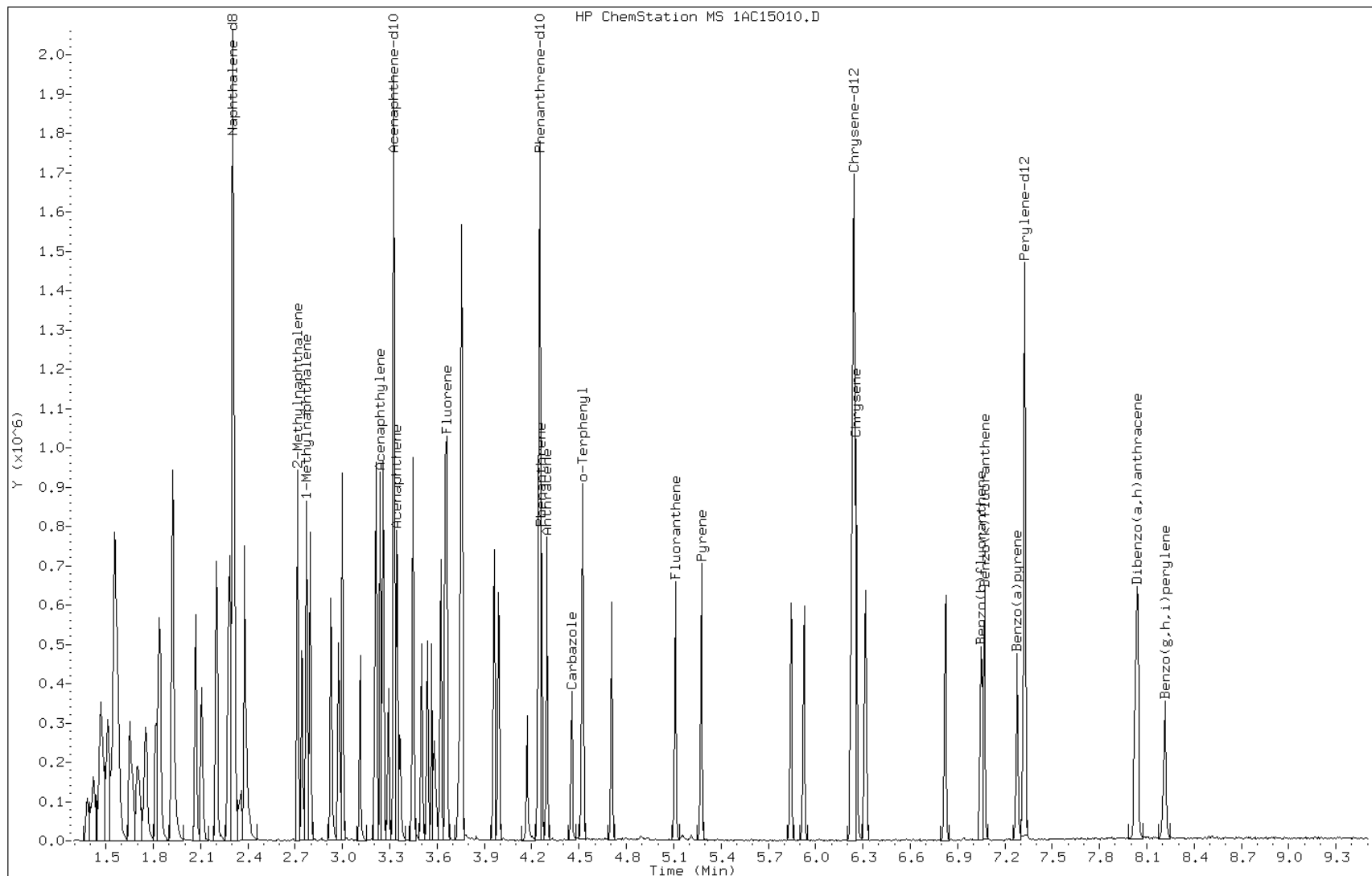
Date: 15-MAR-2013 14:39

Client ID:

Instrument: BSMA5973.i

Sample Info: ICV-1448440

Operator: SCC

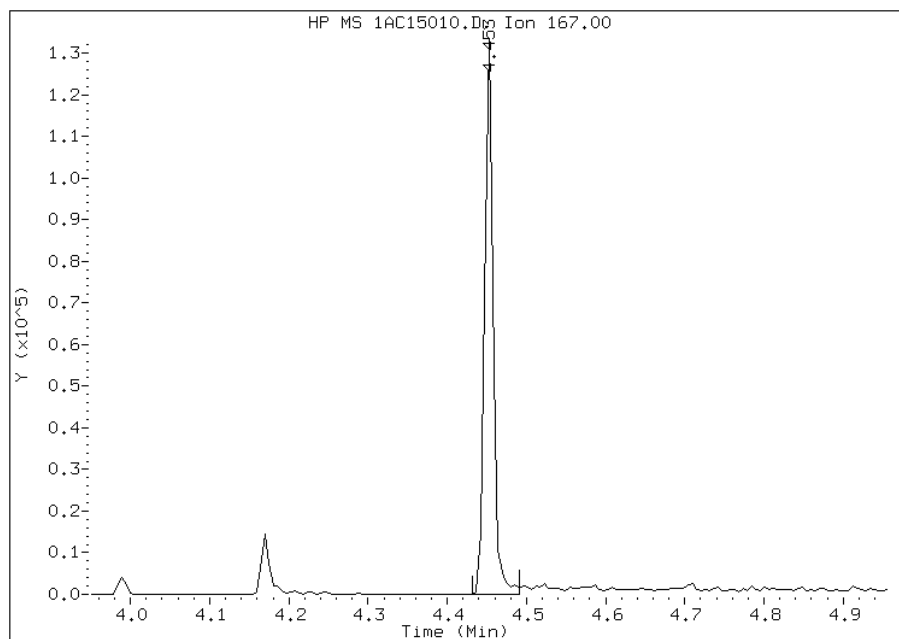


Manual Integration Report

Data File: 1AC15010.D
Inj. Date and Time: 15-MAR-2013 14:39
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 03/15/2013

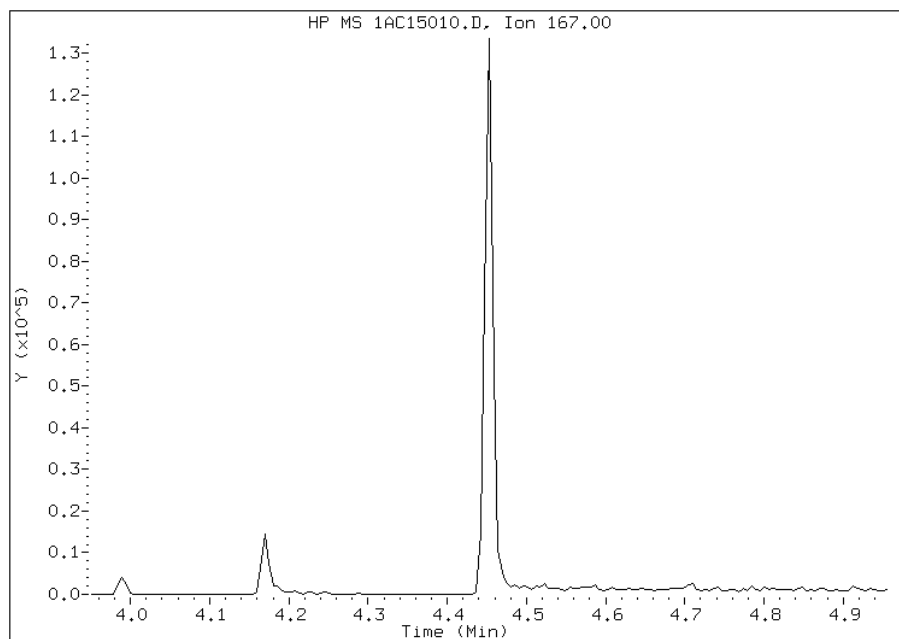
Processing Integration Results

RT: 4.45
Response: 95852
Amount: 9
Conc: 9



Manual Integration Results

RT: 4.45
Response: 152266
Amount: 15
Conc: 15



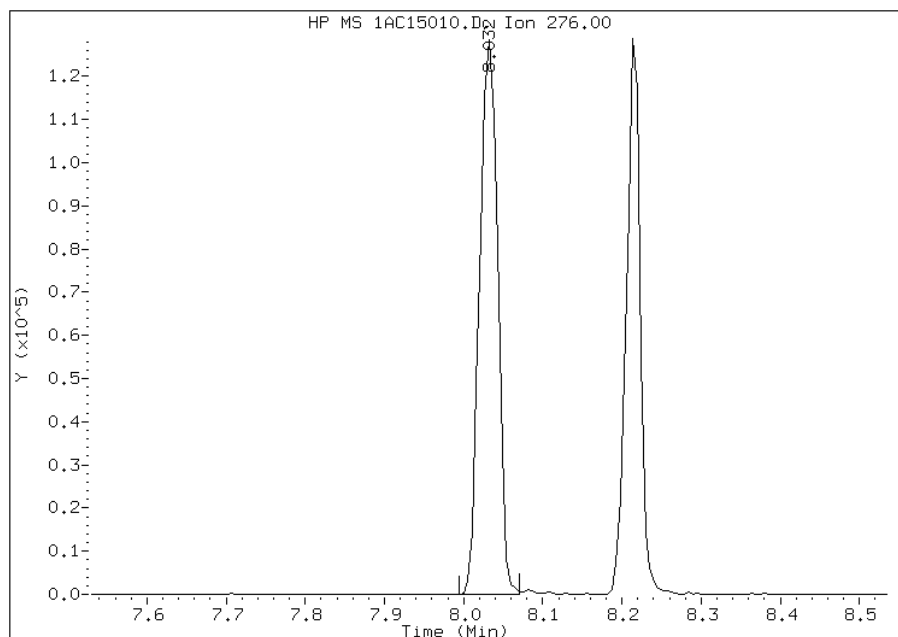
Manually Integrated By: cantins
Modification Date: 15-Mar-2013 15:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15010.D
Inj. Date and Time: 15-MAR-2013 14:39
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

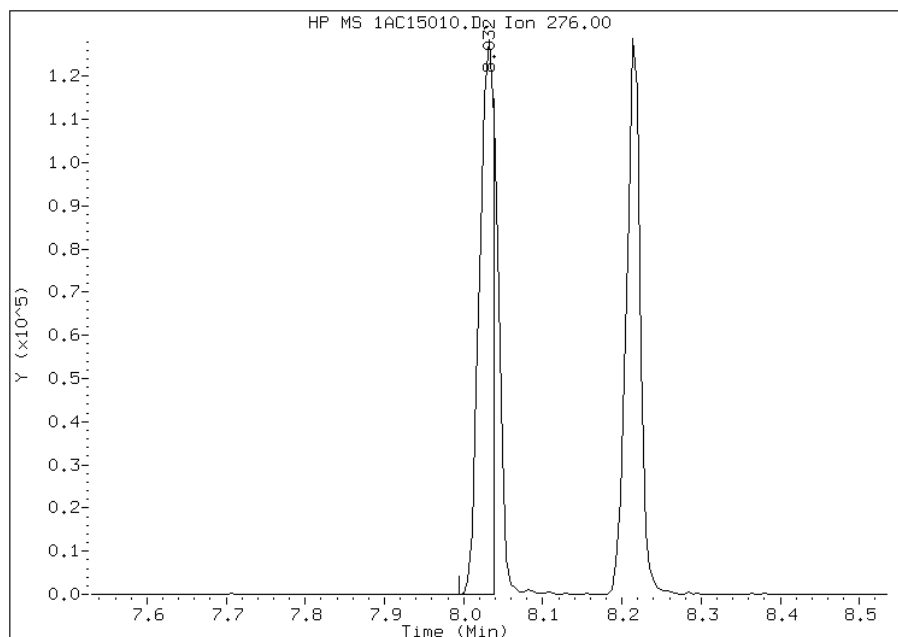
Processing Integration Results

RT: 8.03
Response: 202054
Amount: 20
Conc: 20



Manual Integration Results

RT: 8.03
Response: 161474
Amount: 16
Conc: 16



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 15:00
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Lab Sample ID: ICV 660-134776/10 Calibration Date: 02/22/2013 14:06
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48
 Lab File ID: 1CB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	0.9304	0.0000	17900	20000	-10.7	35.0
2-Methylnaphthalene	Ave	0.6946	0.6168	0.0000	17800	20000	-11.2	35.0
1-Methylnaphthalene	Ave	0.6326	0.5884	0.0000	18600	20000	-7.0	35.0
Acenaphthylene	Ave	1.613	1.474	0.0000	18300	20000	-8.6	35.0
Acenaphthene	Ave	1.002	0.9523	0.0000	19000	20000	-5.0	35.0
Fluorene	Ave	1.268	1.140	0.0000	18000	20000	-10.1	35.0
Phenanthrene	Ave	1.157	0.9494	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.131	0.9716	0.0000	17200	20000	-14.1	35.0
Carbazole	Ave	1.006	0.8745	0.0000	17400	20000	-13.0	35.0
Fluoranthene	Ave	1.267	1.118	0.0000	17700	20000	-11.7	35.0
Pyrene	Ave	1.075	0.8809	0.0000	16400	20000	-18.1	35.0
Benzo[a]anthracene	Ave	1.154	0.9788	0.0000	17000	20000	-15.2	35.0
Chrysene	Ave	1.155	0.9170	0.0000	15900	20000	-20.6	35.0
Benzo[b]fluoranthene	Ave	1.045	0.9777	0.0000	18700	20000	-6.5	35.0
Benzo[k]fluoranthene	Ave	1.072	0.8826	0.0000	16500	20000	-17.7	35.0
Benzo[a]pyrene	Ave	1.015	0.7948	0.0000	15700	20000	-21.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.8384	0.0000	17600	20000	-12.2	35.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8876	0.0000	19000	20000	-5.0	35.0
Benzo[g,h,i]perylene	Ave	0.999	0.8655	0.0000	17300	20000	-13.4	35.0
o-Terphenyl	Ave	0.6039	0.4936	0.0000	16300	20000	-18.3	35.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22010.D
 Lab Smp Id: ICV-1448440
 Inj Date : 22-FEB-2013 14:06
 Operator : SCC
 Smp Info : ICV-1448440
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 10 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136		3.804	3.804	(1.000)	1383069	40.0000		
* 6 Acenaphthene-d10	164		4.892	4.892	(1.000)	1075067	40.0000		
* 10 Phenanthrene-d10	188		5.845	5.845	(1.000)	2141313	40.0000		
\$ 14 o-Terphenyl	230		6.098	6.098	(1.043)	528461	16.3458	16.3457	
* 18 Chrysene-d12	240		7.798	7.798	(1.000)	2766374	40.0000		
* 23 Perylene-d12	264		9.015	9.016	(1.000)	3034368	40.0000		
2 Naphthalene	128		3.816	3.816	(1.003)	643385	17.8686	17.8685	
3 2-Methylnaphthalene	142		4.245	4.245	(1.116)	426527	17.7587	17.7586	
4 1-Methylnaphthalene	142		4.304	4.304	(1.131)	406896	18.6013	18.6013	
5 Acenaphthylene	152		4.804	4.804	(0.982)	792099	18.2750	18.2749	
7 Acenaphthene	154		4.910	4.910	(1.004)	511893	19.0010	19.0010	
9 Fluorene	166		5.233	5.234	(1.070)	612561	17.9790	17.9790	
11 Phenanthrene	178		5.863	5.863	(1.003)	1016506	16.4172	16.4171	
12 Anthracene	178		5.898	5.898	(1.009)	1040221	17.1782	17.1781	
13 Carbazole	167		6.004	6.004	(1.027)	936321	17.3944	17.3943	
15 Fluoranthene	202		6.704	6.704	(1.147)	1196804	17.6502	17.6501	
16 Pyrene	202		6.874	6.875	(0.882)	1218381	16.3888	16.3887	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/l)
=====	=====		=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228		7.792	7.792	(0.999)	1353867	16.9566	16.9566
19 Chrysene	228		7.815	7.822	(1.002)	1268380	15.8740	15.8740
20 Benzo(b)fluoranthene	252		8.656	8.657	(0.960)	1483299	18.7051	18.7050
21 Benzo(k)fluoranthene	252		8.680	8.680	(0.963)	1339047	16.4606	16.4605
22 Benzo(a)pyrene	252		8.956	8.963	(0.993)	1205817	15.6548	15.6547
24 Indeno(1,2,3-cd)pyrene	276		10.233	10.239	(1.135)	1271997	17.5546	17.5546(M)
25 Dibenzo(a,h)anthracene	278		10.250	10.257	(1.137)	1346652	19.0003	19.0002
26 Benzo(g,h,i)perylene	276		10.597	10.610	(1.175)	1313135	17.3240	17.3240

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22010.D

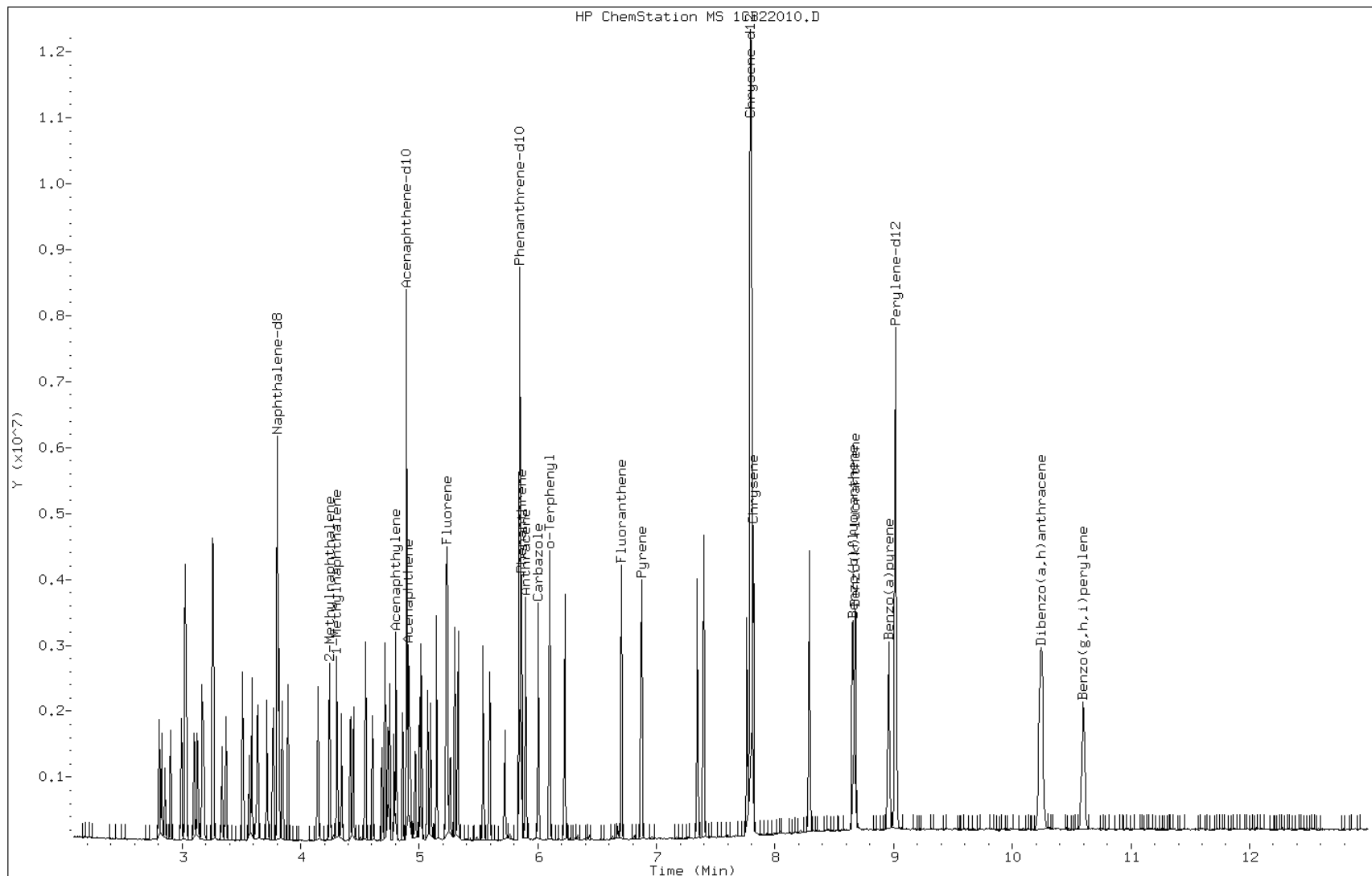
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

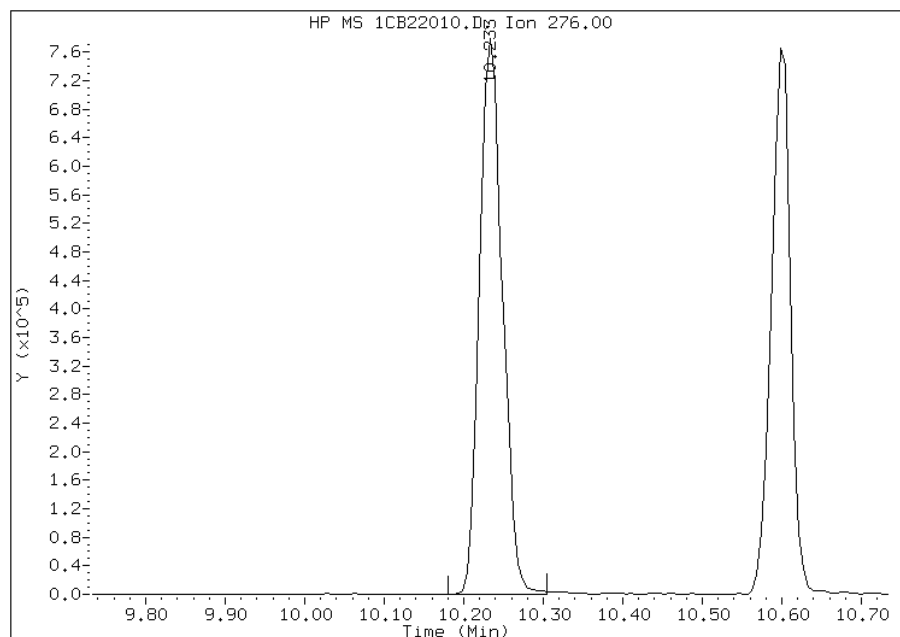


Manual Integration Report

Data File: 1CB22010.D
Inj. Date and Time: 22-FEB-2013 14:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

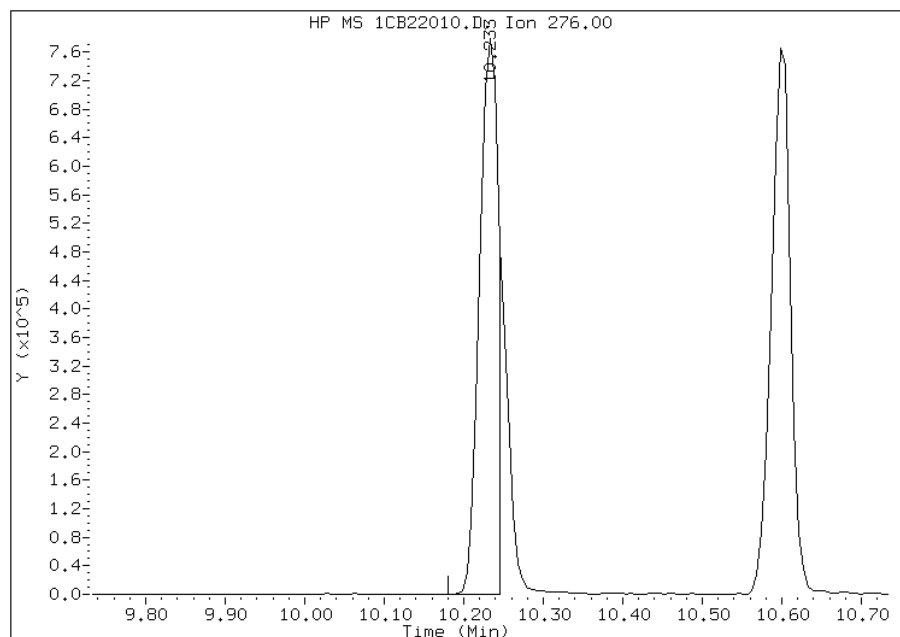
Processing Integration Results

RT: 10.23
Response: 1550656
Amount: 21
Conc: 21



Manual Integration Results

RT: 10.23
Response: 1271997
Amount: 18
Conc: 18



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:21
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Lab Sample ID: CCVIS 660-135536/3 Calibration Date: 03/19/2013 11:18
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48
 Lab File ID: 1CC19003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.101	0.0000	21200	20000	5.8	20.0
2-Methylnaphthalene	Ave	0.6946	0.6898	0.0000	19900	20000	-0.7	20.0
1-Methylnaphthalene	Ave	0.6326	0.6796	0.0000	21500	20000	7.4	20.0
Acenaphthylene	Ave	1.613	1.580	0.0000	19600	20000	-2.0	20.0
Acenaphthene	Ave	1.002	0.9652	0.0000	19300	20000	-3.7	20.0
Fluorene	Ave	1.268	1.218	0.0000	19200	20000	-3.9	20.0
Phenanthrene	Ave	1.157	1.114	0.0000	19300	20000	-3.7	20.0
Anthracene	Ave	1.131	1.103	0.0000	19500	20000	-2.5	20.0
Carbazole	Ave	1.006	1.002	0.0000	19900	20000	-0.4	20.0
Fluoranthene	Ave	1.267	1.241	0.0000	19600	20000	-2.0	20.0
Pyrene	Ave	1.075	1.098	0.0000	20400	20000	2.2	20.0
Benzo[a]anthracene	Ave	1.154	1.069	0.0000	18500	20000	-7.4	20.0
Chrysene	Ave	1.155	1.085	0.0000	18800	20000	-6.1	20.0
Benzo[b]fluoranthene	Ave	1.045	1.036	0.0000	19800	20000	-0.9	20.0
Benzo[k]fluoranthene	Ave	1.072	1.050	0.0000	19600	20000	-2.1	20.0
Benzo[a]pyrene	Ave	1.015	1.034	0.0000	20400	20000	1.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.8699	0.0000	18200	20000	-8.9	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8804	0.0000	18800	20000	-5.8	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9540	0.0000	19100	20000	-4.5	20.0
o-Terphenyl	Ave	0.6039	0.5821	0.0000	19300	20000	-3.6	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031913.b\1CC19003.D
 Lab Smp Id: CCVIS-1512372
 Inj Date : 19-MAR-2013 11:18
 Operator : SCC
 Smp Info : CCVIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031913.b\a-bFASTPAHi-m.m
 Meth Date : 19-Mar-2013 11:39 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.745	3.745	(1.000)	865475	40.0000	(H)
* 6 Acenaphthene-d10	164	4.827	4.827	(1.000)	693688	40.0000	(H)
* 10 Phenanthrene-d10	188	5.780	5.780	(1.000)	1269350	40.0000	(H)
\$ 14 o-Terphenyl	230	6.033	6.033	(1.044)	369429	20.0000	19.2762(H)
* 18 Chrysene-d12	240	7.721	7.721	(1.000)	1624187	40.0000	(H)
* 23 Perylene-d12	264	8.909	8.909	(1.000)	1682198	40.0000	(H)
2 Naphthalene	128	3.757	3.757	(1.003)	476619	20.0000	21.1533(H)
3 2-Methylnaphthalene	142	4.180	4.180	(1.116)	298514	20.0000	19.8617(H)
4 1-Methylnaphthalene	142	4.245	4.245	(1.133)	294078	20.0000	21.4838(H)
5 Acenaphthylene	152	4.745	4.745	(0.983)	547941	20.0000	19.5921(H)
7 Acenaphthene	154	4.851	4.851	(1.005)	334759	20.0000	19.2575(H)
9 Fluorene	166	5.168	5.168	(1.071)	422482	20.0000	19.2174(H)
11 Phenanthrene	178	5.792	5.792	(1.002)	706784	20.0000	19.2563(H)
12 Anthracene	178	5.827	5.827	(1.008)	699799	20.0000	19.4950(H)
13 Carbazole	167	5.933	5.933	(1.026)	635651	20.0000	19.9205(H)
15 Fluoranthene	202	6.633	6.633	(1.148)	787845	20.0000	19.6004(H)
16 Pyrene	202	6.798	6.798	(0.880)	891783	20.0000	20.4313(H)
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	867843	20.0000	18.5131(H)
19 Chrysene	228	7.745	7.745	(1.003)	881245	20.0000	18.7849(H)
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	871023	20.0000	19.8130(H)
21 Benzo(k)fluoranthene	252	8.586	8.586	(0.964)	883468	20.0000	19.5898(H)
22 Benzo(a)pyrene	252	8.856	8.856	(0.994)	869504	20.0000	20.3623(H)
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.080	(1.131)	731657	20.0000	18.2139(MH)
25 Dibenzo(a,h)anthracene	278	10.097	10.097	(1.133)	740460	20.0000	18.8450(H)
26 Benzo(g,h,i)perylene	276	10.433	10.433	(1.171)	802375	20.0000	19.0944(H)

QC Flag Legend

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

Data File: 1CC19003.D

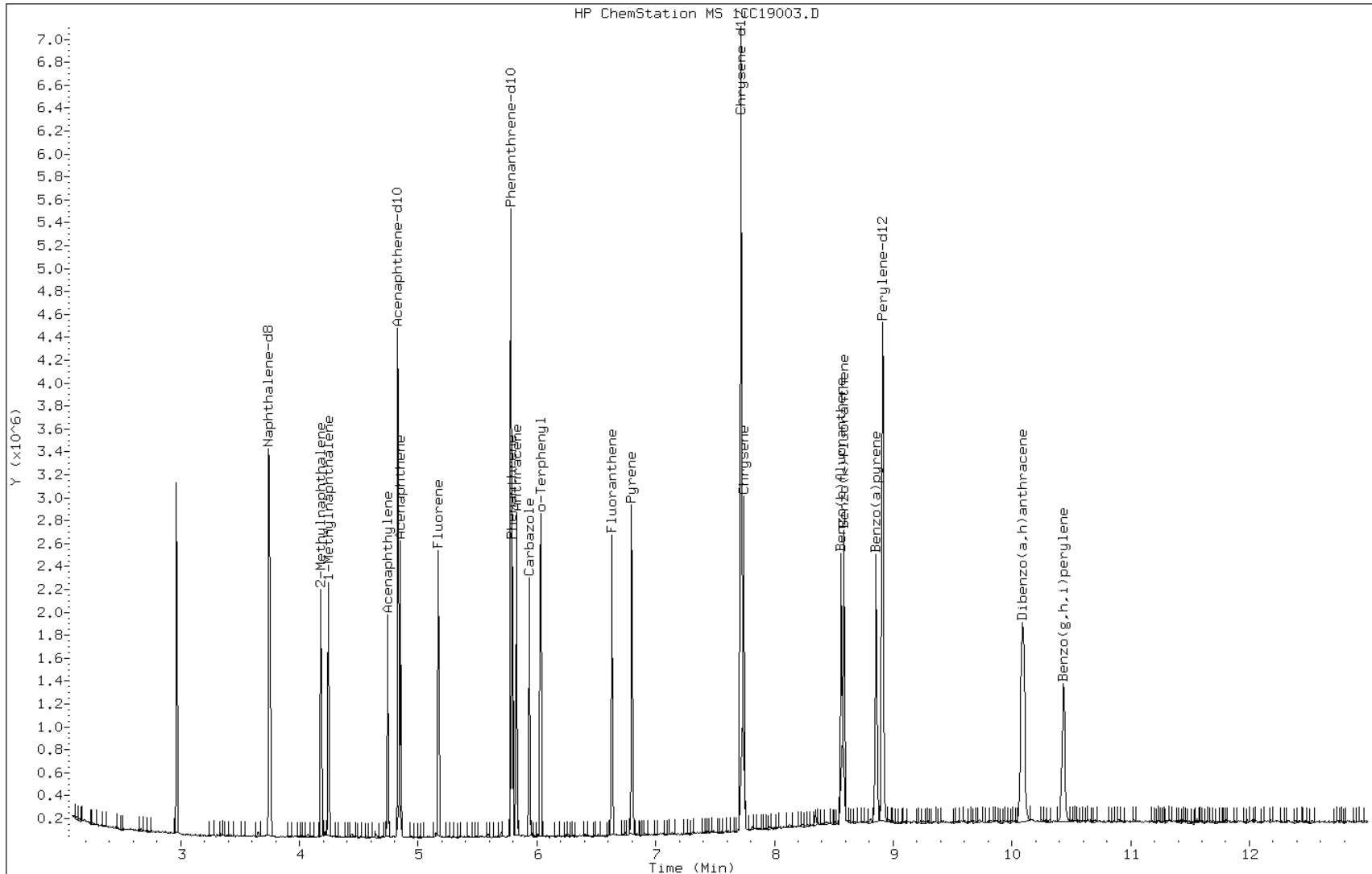
Date: 19-MAR-2013 11:18

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC

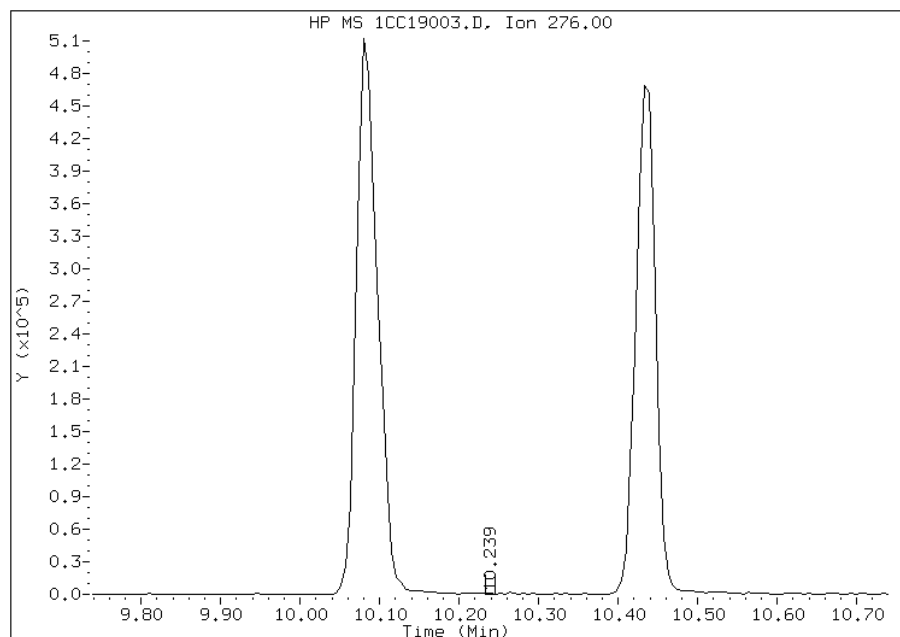


Manual Integration Report

Data File: 1CC19003.D
Inj. Date and Time: 19-MAR-2013 11:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/19/2013

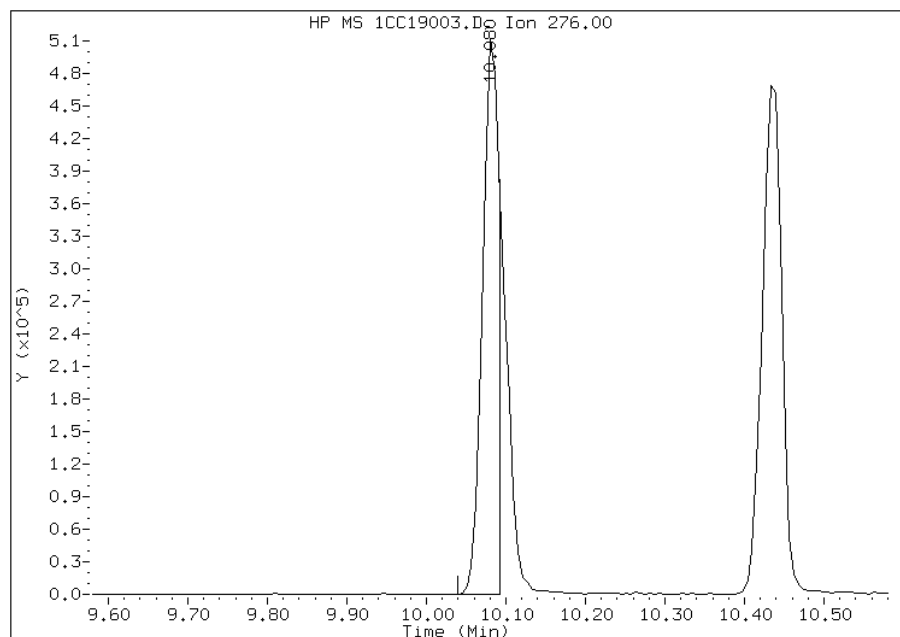
Processing Integration Results

RT: 10.24
Response: 622
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.08
Response: 731657
Amount: 18
Conc: 18



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:41
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 15-MAR-2013 12:38
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : DFTPP-1465456
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-dftpp198.m
 Meth Date : 09-Jan-2013 15:25 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
4.576	4.928	-0.352	198	29405			50.00-	0.00	100.00
4.576	4.928	-0.352	51	21805			10.00-	80.00	74.15
4.576	4.928	-0.352	68	259			0.00-	2.00	1.46
4.576	4.928	-0.352	69	17703			0.00-	0.00	60.20
4.576	4.928	-0.352	70	119			0.00-	2.00	0.67
4.576	4.928	-0.352	127	14373			10.00-	80.00	48.88
4.576	4.928	-0.352	197	110			0.00-	2.00	0.37
4.576	4.928	-0.352	442	16982			50.00-	0.00	57.75
4.576	4.928	-0.352	199	1936			5.00-	9.00	6.58
4.576	4.928	-0.352	275	7091			10.00-	60.00	24.11
4.576	4.928	-0.352	365	1588			1.00-	0.00	5.40
4.576	4.928	-0.352	441	2270			0.01-	99.99	66.76
4.576	4.928	-0.352	443	3400			15.00-	24.00	20.02

Data File: 1AC15002.D

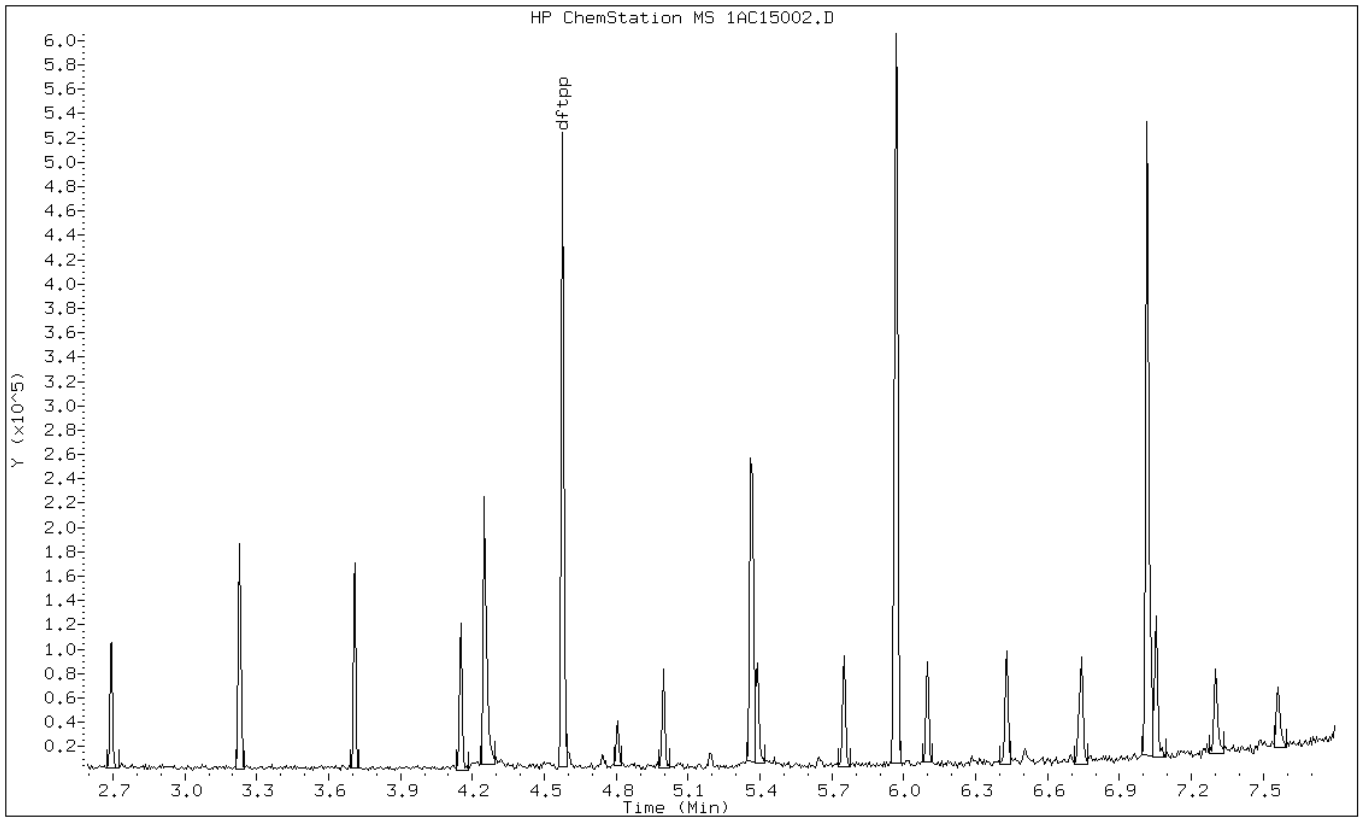
Date: 15-MAR-2013 12:38

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC



Data File: 1AC15002.D

Date: 15-MAR-2013 12:38

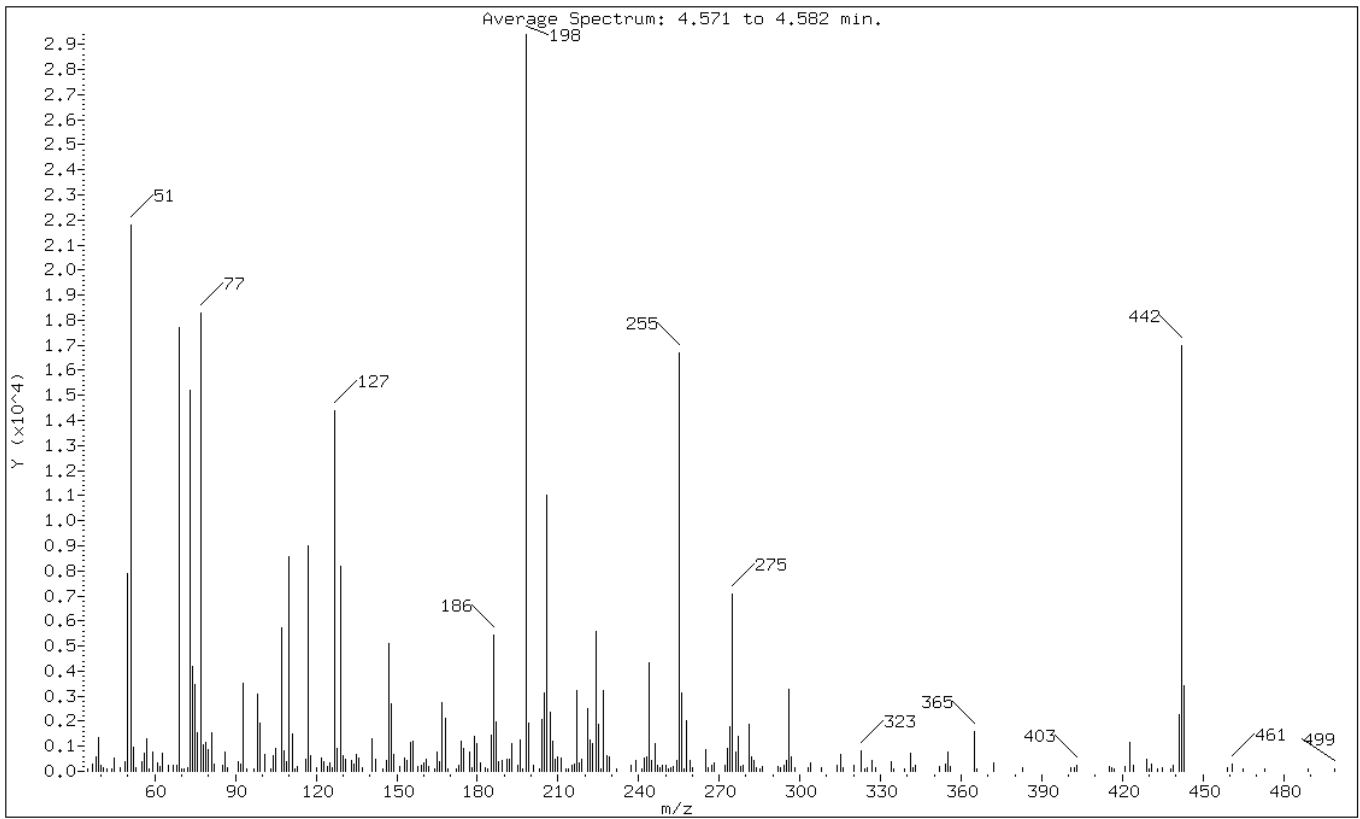
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	74.15
68	Less than 2.00% of mass 69	0.88 (1.46)
69	Mass 69 relative abundance	60.20
70	Less than 2.00% of mass 69	0.40 (0.67)
127	10.00 - 80.00% of mass 198	48.88
197	Less than 2.00% of mass 198	0.37
442	Greater than 50.00% of mass 198	57.75
199	5.00 - 9.00% of mass 198	6.58
275	10.00 - 60.00% of mass 198	24.11
365	Greater than 1.00% of mass 198	5.40
441	Present, but less than mass 443	7.72
443	15.00 - 24.00% of mass 442	11.56 (20.02)

Data File: 1AC15002.D

Date: 15-MAR-2013 12:38

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15002.D

Spectrum: Average Spectrum: 4.571 to 4.582 min.

Location of Maximum: 198.00

Number of points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	85	120.00	163	203.00	115	285.00	106
37.00	306	122.00	547	204.00	2072	286.00	202
38.00	562	123.00	402	205.00	3135	292.00	179
39.00	1366	124.00	186	206.00	11017	293.00	164
40.00	219	125.00	359	207.00	2371	294.00	253
41.00	145	126.00	125	208.00	1184	295.00	431
42.00	104	127.00	14373	209.00	493	296.00	3259
44.00	111	128.00	931	210.00	592	297.00	601
45.00	514	129.00	8181	211.00	507	298.00	158
47.00	153	130.00	641	213.00	103	303.00	163
49.00	409	131.00	484	214.00	106	304.00	353
50.00	7874	133.00	441	215.00	246	308.00	126
51.00	21800	134.00	297	216.00	266	314.00	232
52.00	976	135.00	686	217.00	3206	315.00	691
53.00	134	136.00	518	218.00	342	316.00	143
55.00	389	137.00	163	219.00	478	320.00	252
56.00	727	141.00	1291	221.00	2523	323.00	809
57.00	1307	142.00	492	222.00	1268	324.00	92
58.00	107	145.00	94	223.00	1098	325.00	126
59.00	793	146.00	454	224.00	5572	327.00	416
61.00	323	147.00	5081	225.00	1855	328.00	128
62.00	191	148.00	2688	226.00	100	334.00	404
63.00	726	149.00	664	227.00	3220	335.00	101
65.00	254	151.00	171	228.00	620	339.00	85
67.00	256	153.00	543	229.00	562	341.00	733
68.00	259	154.00	417	232.00	90	342.00	128
69.00	17696	155.00	1172	237.00	244	343.00	219
70.00	119	156.00	1192	239.00	420	352.00	194
71.00	92	158.00	173	241.00	115	354.00	273
72.00	145	159.00	247	242.00	506	355.00	787
73.00	15202	160.00	320	243.00	600	356.00	190
74.00	4191	161.00	504	244.00	4329	365.00	1588
75.00	3459	162.00	191	245.00	453	366.00	94
76.00	1521	164.00	88	246.00	1109	372.00	337
77.00	18264	165.00	792	247.00	251	383.00	164
78.00	1070	166.00	404	248.00	162	401.00	168
79.00	1167	167.00	2720	249.00	262	402.00	137
80.00	889	168.00	2122	250.00	238	403.00	222
81.00	1552	169.00	104	251.00	92	415.00	211
82.00	281	172.00	102	252.00	132	416.00	144

85.00	253	173.00	241	253.00	172	417.00	97
86.00	792	174.00	1204	254.00	453	421.00	203
87.00	130	175.00	896	255.00	16688	423.00	1165
91.00	363	177.00	758	256.00	3108	424.00	230
92.00	278	178.00	124	257.00	112	429.00	472
93.00	3505	179.00	1405	258.00	2025	430.00	101
94.00	96	180.00	1111	259.00	447	431.00	293
97.00	99	181.00	330	260.00	168	433.00	113
98.00	3092	183.00	122	265.00	881	435.00	131
99.00	1912	184.00	107	266.00	161	438.00	91
101.00	693	185.00	1466	267.00	245	439.00	239
103.00	85	186.00	5418	268.00	325	441.00	2270
104.00	611	187.00	1965	272.00	255	442.00	16976
105.00	929	188.00	394	273.00	917	443.00	3400
107.00	5742	189.00	415	274.00	1773	459.00	158
108.00	799	191.00	472	275.00	7091	461.00	289
109.00	402	192.00	486	276.00	776	465.00	98
110.00	8543	193.00	1108	277.00	1382	473.00	97
111.00	1505	195.00	248	278.00	211	489.00	118
112.00	112	196.00	1229	279.00	247	499.00	87
113.00	202	197.00	110	281.00	1864		
116.00	464	198.00	29400	282.00	600		
117.00	9017	199.00	1936	283.00	454		
118.00	642	201.00	258	284.00	163		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 22-FEB-2013 11:41
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\c-dftpp198.m
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
7.404	7.469	-0.065	198	73440			50.00-	0.00	100.00
7.404	7.469	-0.065	51	31096			10.00-	80.00	42.34
7.404	7.469	-0.065	68	471			0.00-	2.00	1.08
7.404	7.469	-0.065	69	43512			0.00-	0.00	59.25
7.404	7.469	-0.065	70	192			0.00-	2.00	0.44
7.404	7.469	-0.065	127	39368			10.00-	80.00	53.61
7.404	7.469	-0.065	197	733			0.00-	2.00	1.00
7.404	7.469	-0.065	442	38240			50.00-	0.00	52.07
7.404	7.469	-0.065	199	6330			5.00-	9.00	8.62
7.404	7.469	-0.065	275	14104			10.00-	60.00	19.20
7.404	7.469	-0.065	365	1462			1.00-	0.00	1.99
7.404	7.469	-0.065	441	5496			0.01-	99.99	86.06
7.404	7.469	-0.065	443	6386			15.00-	24.00	16.70

Data File: 1CB22002.D

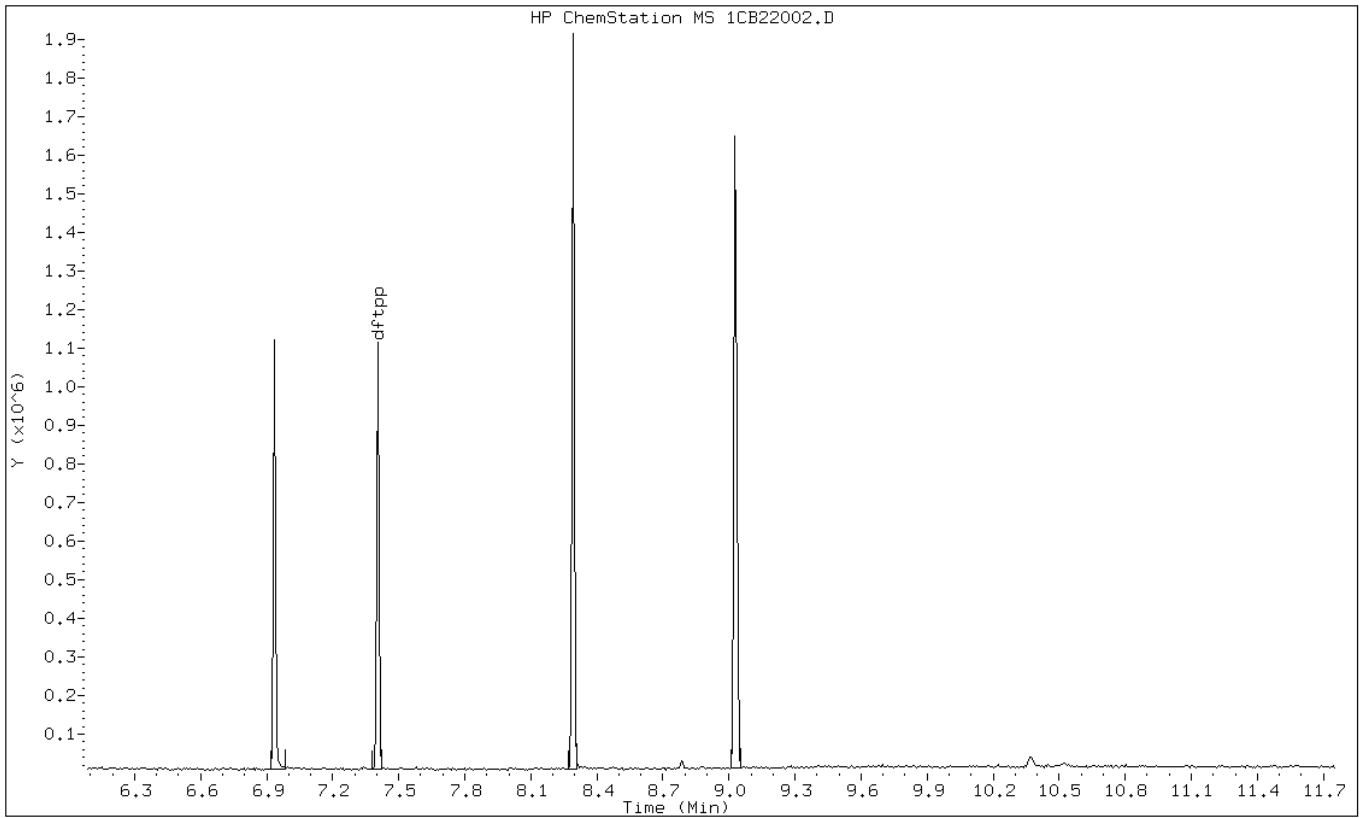
Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

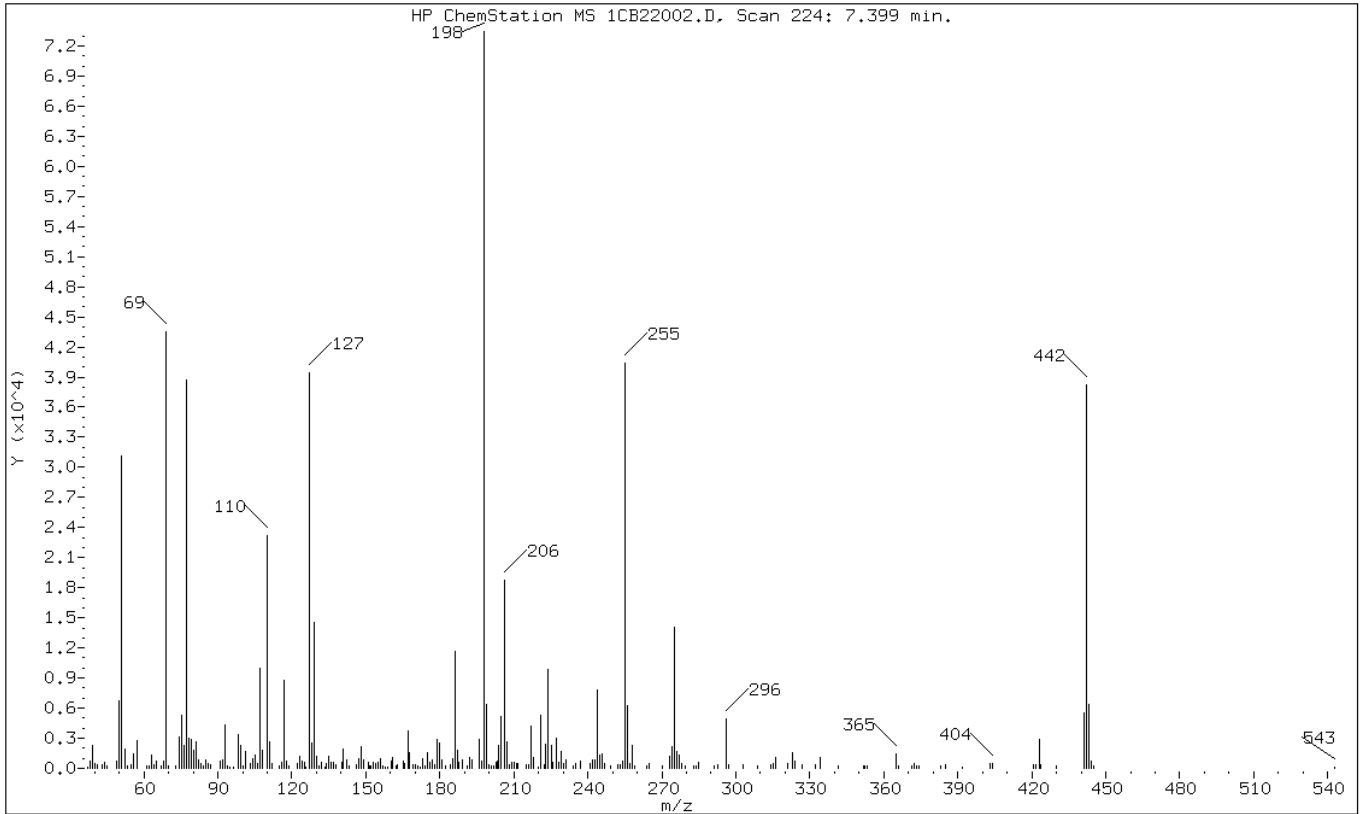
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	42.34
68	Less than 2.00% of mass 69	0.64 (1.08)
69	Mass 69 relative abundance	59.25
70	Less than 2.00% of mass 69	0.26 (0.44)
127	10.00 - 80.00% of mass 198	53.61
197	Less than 2.00% of mass 198	1.00
442	Greater than 50.00% of mass 198	52.07
199	5.00 - 9.00% of mass 198	8.62
275	10.00 - 60.00% of mass 198	19.20
365	Greater than 1.00% of mass 198	1.99
441	Present, but less than mass 443	7.48
443	15.00 - 24.00% of mass 442	8.70 (16.70)

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\1CB22002.D

Spectrum: HP ChemStation MS 1CB22002.D, Scan 224: 7.399 min.

Location of Maximum: 198.00

Number of points: 238

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	176	115.10	214	181.00	901	256.00	6303
38.10	755	116.00	605	182.10	220	256.90	429
39.10	2229	117.00	8730	184.00	307	257.90	2280
40.10	531	117.90	749	185.10	1015	258.90	258
41.10	318	119.00	225	186.10	11683	263.90	210
42.90	335	122.00	424	187.10	1756	265.00	509
44.00	648	123.00	1147	187.90	552	270.00	205
45.20	211	124.10	749	188.90	869	273.00	1169
49.10	738	125.10	635	191.00	237	274.00	2122
50.10	6757	125.80	170	192.00	1104	275.00	14104
51.10	31096	127.10	39368	193.10	865	275.90	1652
52.10	1930	128.10	2564	196.00	2872	277.00	1264
53.20	277	129.00	14531	196.90	733	277.90	505
55.00	369	129.80	1177	198.00	73440	279.70	194
56.00	1418	131.00	276	199.00	6330	283.00	190
57.00	2762	132.10	570	199.90	373	283.80	183
61.00	226	133.20	171	201.00	298	285.00	556
62.00	292	134.10	490	201.60	269	291.10	200
63.20	1348	135.10	1144	202.90	583	292.90	373
64.00	333	136.10	602	203.30	687	296.00	4941
65.10	737	137.00	557	204.00	2340	297.00	339
66.90	287	137.80	323	205.00	5123	302.90	397
67.80	471	140.10	644	206.10	18696	308.90	282
68.20	663	141.00	1972	207.10	2615	314.00	365
69.10	43512	142.00	851	208.00	418	315.10	502
70.00	192	143.10	211	209.00	555	316.10	1036
73.10	186	146.10	337	210.30	624	321.00	472
74.10	3155	147.00	919	210.90	494	323.00	1518
75.10	5232	148.00	2159	211.60	459	324.00	680
76.10	2236	149.00	790	214.90	324	327.10	397
77.10	38720	151.00	613	215.80	325	332.10	308
78.10	3056	151.70	298	217.00	4236	334.20	1026
79.10	2911	152.20	189	218.00	1088	341.30	184
80.00	1751	153.00	575	220.00	170	351.80	221
81.10	2627	154.10	436	221.10	5285	352.40	258
82.00	869	155.10	587	222.20	336	353.20	226
83.10	502	156.00	912	222.80	2398	364.90	1462
83.90	288	156.80	189	224.00	9837	365.90	266
85.00	785	158.00	151	225.10	2230	371.10	209
86.10	533	158.90	165	226.00	626	372.10	462

87.10	324	160.10	719	227.00	3030	373.10	210
91.10	726	160.90	1140	228.00	610	374.50	233
91.90	792	162.10	280	229.00	1664	383.20	274
93.10	4314	162.70	420	230.00	453	384.80	322
94.00	297	165.00	758	231.00	869	391.80	159
+-----+							
95.00	178	165.90	506	234.00	203	402.90	522
96.10	155	167.00	3698	234.90	491	404.10	524
98.10	3307	167.80	1598	236.90	687	420.90	334
99.10	2331	169.10	332	240.80	432	421.80	348
100.00	203	170.20	321	242.00	793	423.00	2839
+-----+							
101.00	1667	171.10	292	242.90	893	423.80	381
103.00	538	171.80	156	244.00	7817	430.10	181
104.10	935	173.20	904	245.00	1351	441.00	5496
105.10	1280	174.10	287	246.00	1390	442.00	38240
106.20	492	175.00	1609	246.80	435	443.10	6386
+-----+							
107.00	9992	176.00	544	249.00	291	444.00	706
108.00	1788	177.10	810	252.10	410	444.90	181
110.00	23216	177.80	349	252.90	317	542.80	156
111.10	2593	179.10	2922	253.90	662		
112.10	540	180.00	2572	255.00	40344		
+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031913.b\1CC19002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 19-MAR-2013 10:57
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031913.b\c-dftpp198.m
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
7.339	7.469	-0.130	198	121464			50.00-	0.00	100.00
7.339	7.469	-0.130	51	41972			10.00-	80.00	34.56
7.339	7.469	-0.130	68	1087			0.00-	2.00	1.91
7.339	7.469	-0.130	69	56828			0.00-	0.00	46.79
7.339	7.469	-0.130	70	432			0.00-	2.00	0.76
7.339	7.469	-0.130	127	55992			10.00-	80.00	46.10
7.339	7.469	-0.130	197	603			0.00-	2.00	0.50
7.339	7.469	-0.130	442	97832			50.00-	0.00	80.54
7.339	7.469	-0.130	199	9235			5.00-	9.00	7.60
7.339	7.469	-0.130	275	27396			10.00-	60.00	22.55
7.339	7.469	-0.130	365	2988			1.00-	0.00	2.46
7.339	7.469	-0.130	441	15691			0.01-	99.99	81.22
7.339	7.469	-0.130	443	19320			15.00-	24.00	19.75

Data File: 1CC19002.D

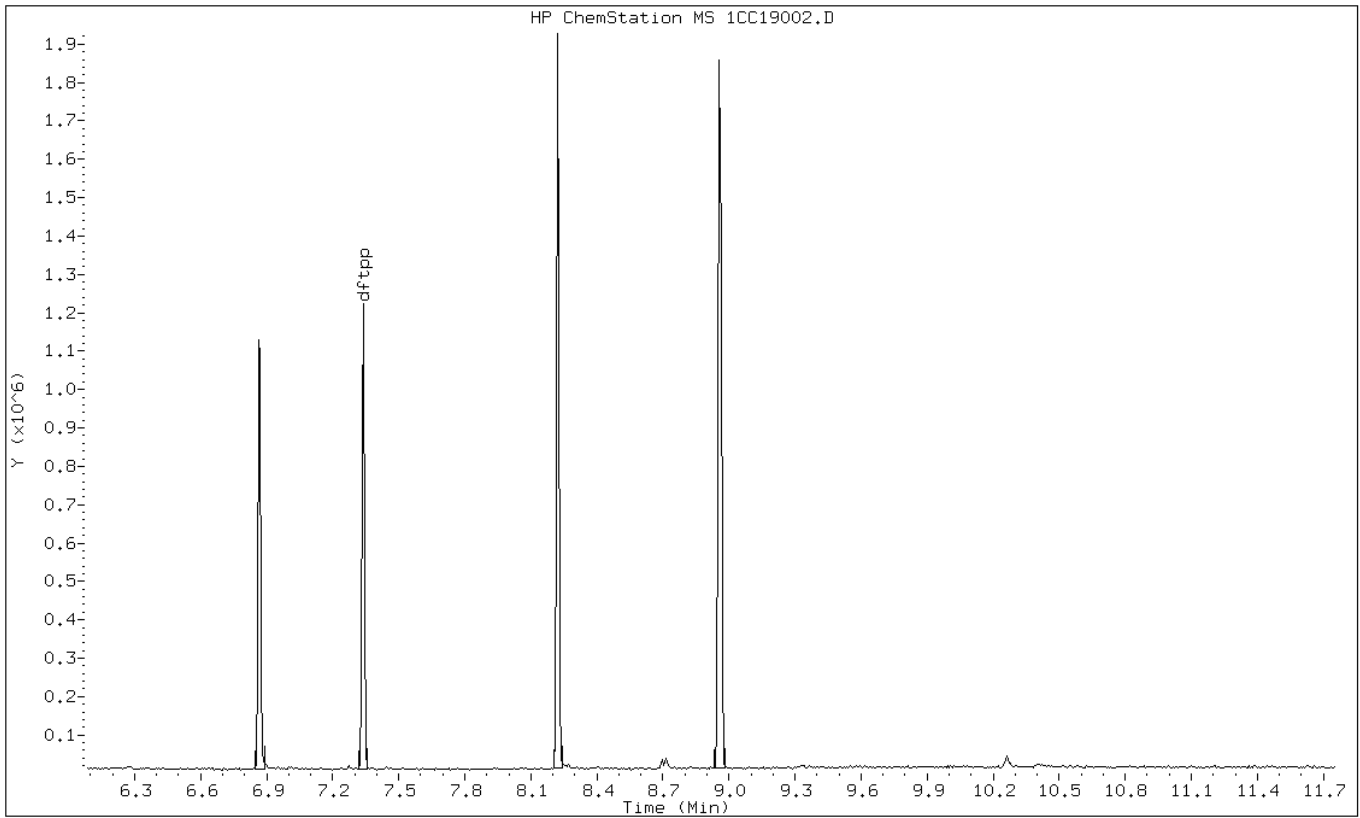
Date: 19-MAR-2013 10:57

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CC19002.D

Date: 19-MAR-2013 10:57

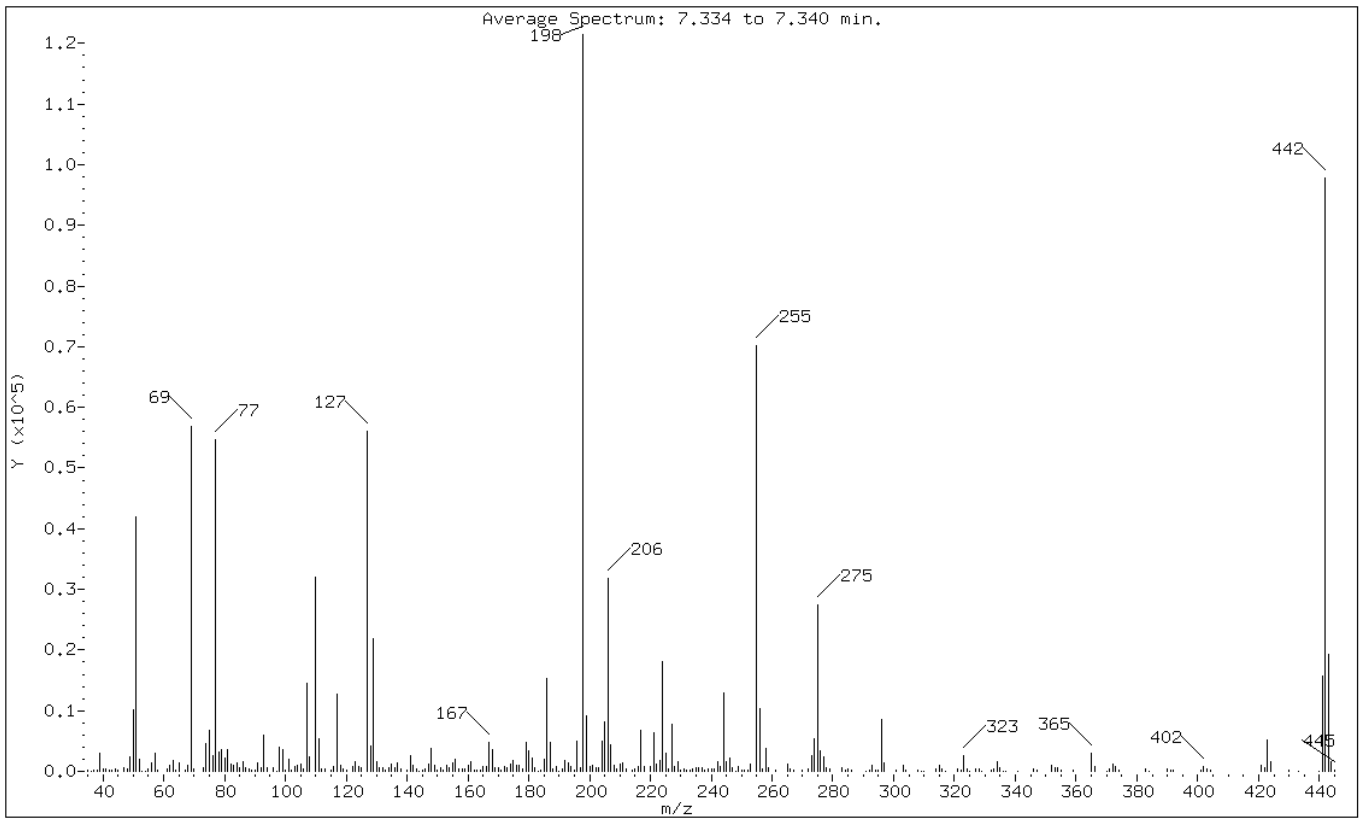
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	34.56
68	Less than 2.00% of mass 69	0.89 (1.91)
69	Mass 69 relative abundance	46.79
70	Less than 2.00% of mass 69	0.36 (0.76)
127	10.00 - 80.00% of mass 198	46.10
197	Less than 2.00% of mass 198	0.50
442	Greater than 50.00% of mass 198	80.54
199	5.00 - 9.00% of mass 198	7.60
275	10.00 - 60.00% of mass 198	22.55
365	Greater than 1.00% of mass 198	2.46
441	Present, but less than mass 443	12.92
443	15.00 - 24.00% of mass 442	15.91 (19.75)

Data File: 1CC19002.D

Date: 19-MAR-2013 10:57

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C031913.b\1CC19002.D

Spectrum: Average Spectrum: 7.334 to 7.340 min.

Location of Maximum: 198.00

Number of points: 294

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	110	118.00	986	195.00	140	279.00	328
36.00	93	119.00	347	196.00	4961	283.00	528
37.00	156	120.00	222	197.00	603	284.00	119
38.00	272	122.00	796	198.00	121464	285.00	475
39.00	2885	123.00	1678	199.00	9235	286.00	201
40.00	415	124.00	707	200.00	718	291.00	75
41.00	487	125.00	527	201.00	986	292.00	256
42.00	276	127.00	55992	202.00	644	293.00	973
43.00	193	128.00	4250	203.00	691	294.00	228
44.00	446	129.00	21960	204.00	5046	295.00	251
45.00	141	130.00	1540	205.00	8217	296.00	8593
47.00	590	131.00	614	206.00	31896	297.00	1348
48.00	369	132.00	533	207.00	4345	301.00	275
49.00	2298	133.00	124	208.00	1043	303.00	1013
50.00	10227	134.00	527	209.00	425	304.00	269
51.00	41968	135.00	1192	210.00	1157	308.00	201
52.00	1948	136.00	597	211.00	1335	309.00	75
53.00	76	137.00	1322	212.00	396	310.00	84
54.00	88	138.00	319	214.00	186	314.00	405
55.00	319	140.00	265	215.00	461	315.00	991
56.00	1460	141.00	2682	216.00	774	316.00	337
57.00	2931	142.00	1027	217.00	6684	317.00	75
58.00	165	143.00	440	218.00	771	321.00	307
61.00	306	144.00	98	220.00	789	322.00	105
62.00	981	145.00	118	221.00	6327	323.00	2681
63.00	1859	146.00	479	222.00	1144	324.00	465
64.00	103	147.00	1279	223.00	1873	325.00	90
65.00	1309	148.00	3702	224.00	18032	327.00	469
67.00	210	149.00	1008	225.00	3075	328.00	412
68.00	1087	150.00	127	226.00	392	329.00	77
69.00	56824	151.00	576	227.00	7795	332.00	213
70.00	432	152.00	165	228.00	850	333.00	327
73.00	507	153.00	969	229.00	1626	334.00	1614
74.00	4519	154.00	622	230.00	169	335.00	508
75.00	6714	155.00	1427	231.00	491	336.00	81
76.00	2636	156.00	1923	232.00	100	337.00	75
77.00	54576	157.00	492	233.00	252	341.00	92
78.00	3193	158.00	439	234.00	479	346.00	477
79.00	3488	159.00	491	235.00	578	347.00	237
80.00	2233	160.00	967	236.00	506	352.00	939

81.00	3660	161.00	1581	237.00	529	353.00	678
82.00	1248	162.00	182	238.00	135	354.00	657
83.00	933	163.00	147	239.00	430	355.00	101
84.00	1358	164.00	175	240.00	322	359.00	112
85.00	647	165.00	882	241.00	415	365.00	2988
86.00	1510	166.00	815	242.00	1601	366.00	745
87.00	508	167.00	4715	243.00	822	370.00	79
88.00	351	168.00	3656	244.00	12905	371.00	311
89.00	290	169.00	659	245.00	1543	372.00	1290
90.00	123	170.00	557	246.00	2146	373.00	709
91.00	1408	171.00	136	247.00	523	374.00	148
92.00	687	172.00	764	248.00	76	383.00	384
93.00	6024	173.00	590	249.00	833	384.00	83
94.00	632	174.00	1202	250.00	215	390.00	321
96.00	623	175.00	1831	251.00	250	391.00	260
97.00	75	176.00	1023	252.00	247	392.00	197
98.00	4033	177.00	985	253.00	1096	401.00	280
99.00	3604	178.00	324	255.00	70144	402.00	819
100.00	189	179.00	4856	256.00	10310	403.00	428
101.00	1972	180.00	3358	257.00	490	404.00	113
102.00	225	181.00	2095	258.00	3820	421.00	930
103.00	713	182.00	512	259.00	652	422.00	627
104.00	1030	183.00	98	261.00	158	423.00	5144
105.00	1128	184.00	227	265.00	1199	424.00	1681
106.00	309	185.00	1911	266.00	429	430.00	142
107.00	14440	186.00	15270	267.00	148	433.00	81
108.00	2349	187.00	4695	270.00	242	440.00	88
110.00	31952	188.00	390	272.00	313	441.00	15691
111.00	5270	189.00	767	273.00	2590	442.00	97832
112.00	368	190.00	79	274.00	5391	443.00	19320
113.00	407	191.00	348	275.00	27392	444.00	1641
115.00	257	192.00	1847	276.00	3321	445.00	139
116.00	820	193.00	1470	277.00	2296		
117.00	12690	194.00	701	278.00	660		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: _____ Lab Sample ID: MB 660-135376/1-A
 Matrix: Solid Lab File ID: 1AC15011.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 14.92(g) Date Analyzed: 03/15/2013 15:17
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 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	83		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15011.D
 Lab Smp Id: mb 660-135376/1-a
 Inj Date : 15-MAR-2013 15:17
 Operator : SCC
 Smp Info : mb 660-135376/1-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 11 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.300	2.303	(1.000)	445360	40.0000	
* 6 Acenaphthene-d10	164		3.326	3.324	(1.000)	344611	40.0000	
* 10 Phenanthrene-d10	188		4.250	4.248	(1.000)	488679	40.0000	
\$ 14 o-Terphenyl	230		4.522	4.526	(1.064)	53408	8.28632	555.3835
* 18 Chrysene-d12	240		6.242	6.246	(1.000)	398865	40.0000	
* 23 Perylene-d12	264		7.332	7.330	(1.000)	419045	40.0000	

Data File: 1AC15011.D

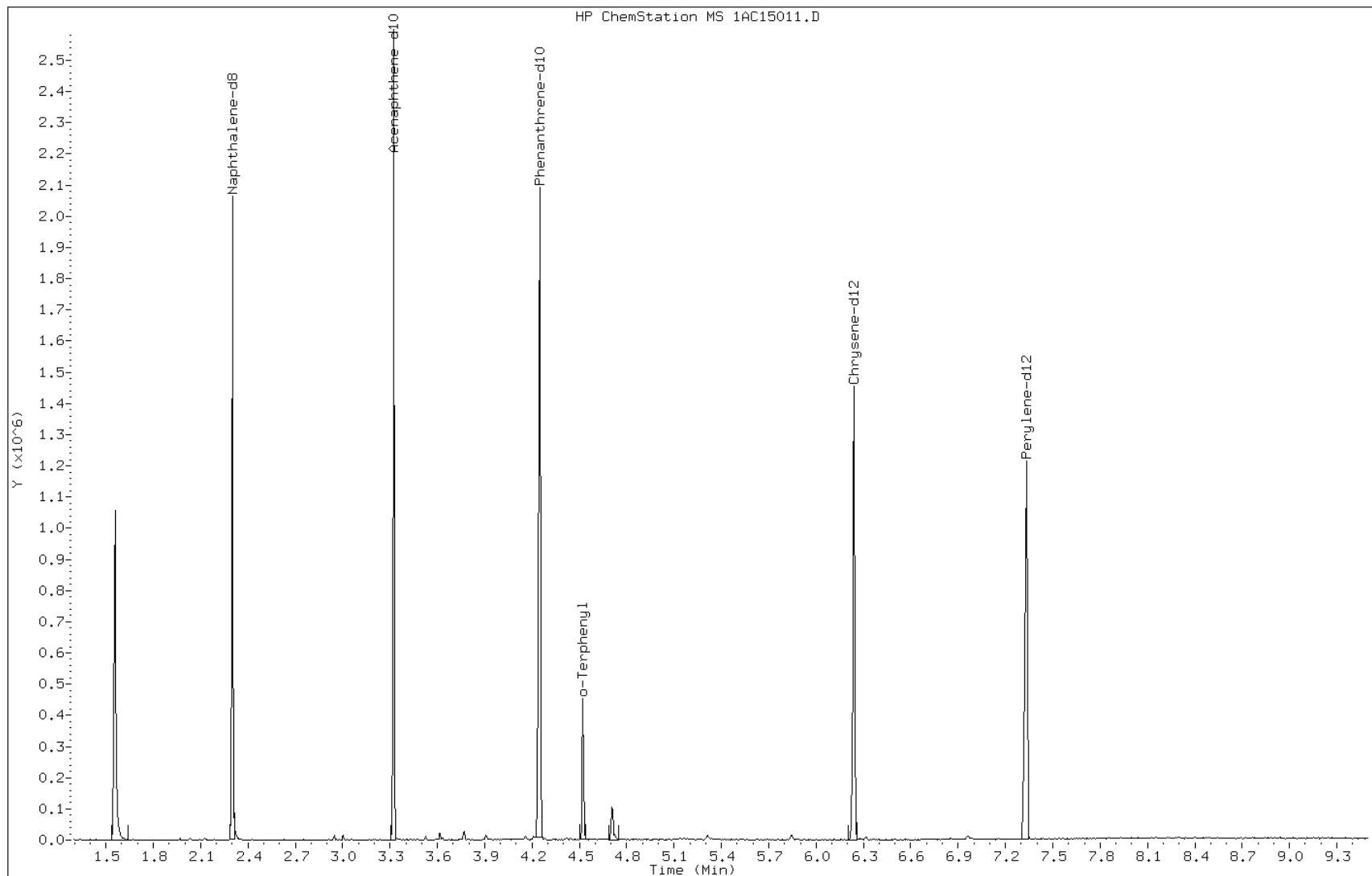
Date: 15-MAR-2013 15:17

Client ID:

Instrument: BSMA5973.i

Sample Info: mb 660-135376/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: _____ Lab Sample ID: LCS 660-135376/2-A
 Matrix: Solid Lab File ID: 1AC15012.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.41(g) Date Analyzed: 03/15/2013 15:32
 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.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	503		97	19
208-96-8	Acenaphthylene	497		39	4.9
120-12-7	Anthracene	550		8.2	4.1
56-55-3	Benzo[a]anthracene	593		7.8	3.8
50-32-8	Benzo[a]pyrene	518		10	5.1
205-99-2	Benzo[b]fluoranthene	572		12	5.9
191-24-2	Benzo[g,h,i]perylene	547		19	4.3
207-08-9	Benzo[k]fluoranthene	549		7.8	3.5
218-01-9	Chrysene	557		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	561		19	4.0
206-44-0	Fluoranthene	590		19	3.9
86-73-7	Fluorene	529		19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	567		19	6.9
90-12-0	1-Methylnaphthalene	579		39	4.3
91-57-6	2-Methylnaphthalene	497		39	6.9
91-20-3	Naphthalene	512		39	4.3
85-01-8	Phenanthrene	536		7.8	3.8
129-00-0	Pyrene	520		19	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15012.D
 Lab Smp Id: lcs 660-135376/2-a
 Inj Date : 15-MAR-2013 15:32
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : lcs 660-135376/2-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.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:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.410	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		2.303	2.303	(1.000)	466661	40.0000		
* 6 Acenaphthene-d10	164		3.324	3.324	(1.000)	322394	40.0000		
* 10 Phenanthrene-d10	188		4.248	4.248	(1.000)	444410	40.0000		
\$ 14 o-Terphenyl	230		4.520	4.526	(1.064)	52758	8.96691	581.8892	
* 18 Chrysene-d12	240		6.241	6.246	(1.000)	461531	40.0000		
* 23 Perylene-d12	264		7.330	7.330	(1.000)	497063	40.0000		
2 Naphthalene	128		2.314	2.314	(1.005)	85077	7.89106	512.0740	
3 2-Methylnaphthalene	141		2.715	2.715	(1.179)	44840	7.66027	497.0973	
4 1-Methylnaphthalene	142		2.768	2.773	(1.202)	55319	8.92307	579.0439	
5 Acenaphthylene	152		3.238	3.238	(0.974)	87909	7.65527	496.7729	
7 Acenaphthene	154		3.340	3.345	(1.005)	50330	7.75320	503.1278	
9 Fluorene	166		3.650	3.649	(1.098)	64872	8.15816	529.4070	
11 Phenanthrene	178		4.259	4.264	(1.002)	93009	8.25760	535.8595	
12 Anthracene	178		4.296	4.296	(1.011)	92548	8.47403	549.9042	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.451	4.456	(1.048)	83642	8.73788	567.0266
15 Fluoranthene	202	5.108	5.113	(1.202)	101193	9.08877	589.7971
16 Pyrene	202	5.274	5.279	(0.845)	106107	8.01827	520.3287
17 Benzo(a)anthracene	228	6.235	6.235	(0.999)	120123	9.14370	593.3613
19 Chrysene	228	6.257	6.262	(1.003)	102666	8.58855	557.3359
20 Benzo(b)fluoranthene	252	7.047	7.052	(0.961)	104313	8.81869	572.2705
21 Benzo(k)fluoranthene	252	7.069	7.074	(0.964)	113400	8.45774	548.8472
22 Benzo(a)pyrene	252	7.277	7.282	(0.993)	93177	7.98771	518.3456
24 Indeno(1,2,3-cd)pyrene	276	8.030	8.035	(1.095)	92010	8.74169	567.2741(M)
25 Dibenzo(a,h)anthracene	278	8.041	8.045	(1.097)	90118	8.63887	560.6017
26 Benzo(g,h,i)perylene	276	8.212	8.222	(1.120)	89383	8.43641	547.4636

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15012.D

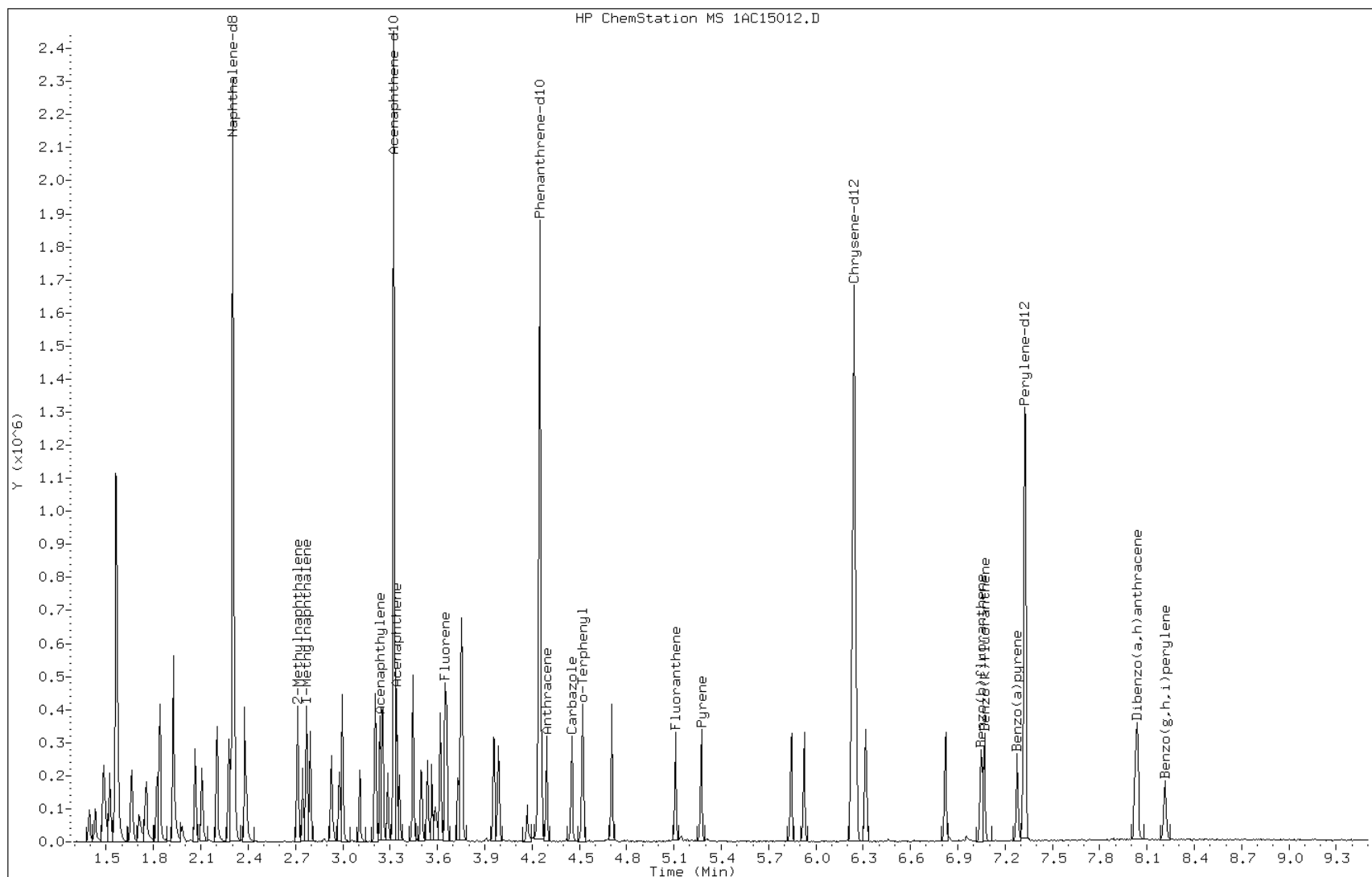
Date: 15-MAR-2013 15:32

Client ID:

Instrument: BSMA5973.i

Sample Info: lcs 660-135376/2-a

Operator: SCC

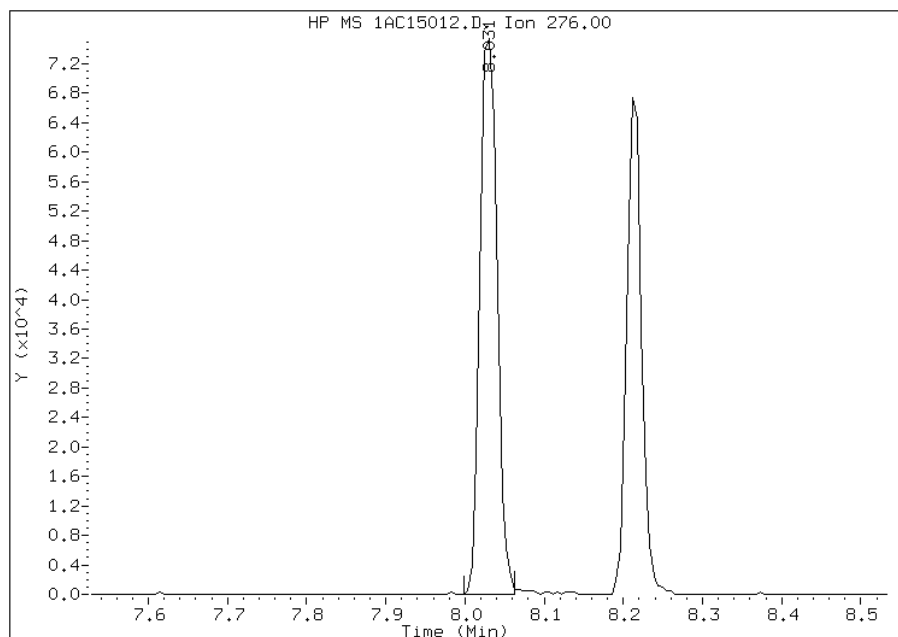


Manual Integration Report

Data File: 1AC15012.D
Inj. Date and Time: 15-MAR-2013 15:32
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

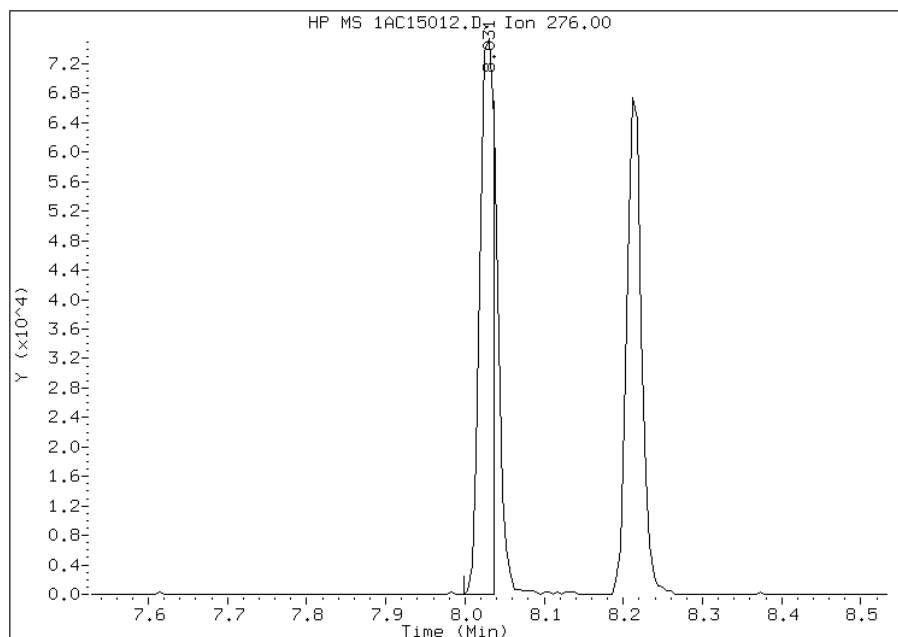
Processing Integration Results

RT: 8.03
Response: 112715
Amount: 11
Conc: 695



Manual Integration Results

RT: 8.03
Response: 92010
Amount: 9
Conc: 567



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 10:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0684B-CS-SP MS Lab Sample ID: 680-88118-11 MS
 Matrix: Solid Lab File ID: 1AC15024.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 12:50
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.22(g) Date Analyzed: 03/15/2013 18:34
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 20.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	477		120	25
208-96-8	Acenaphthylene	449		49	6.2
120-12-7	Anthracene	497		10	5.2
56-55-3	Benzo[a]anthracene	656		9.9	4.8
50-32-8	Benzo[a]pyrene	434		13	6.4
205-99-2	Benzo[b]fluoranthene	632		15	7.5
191-24-2	Benzo[g,h,i]perylene	483		25	5.4
207-08-9	Benzo[k]fluoranthene	397		9.9	4.5
218-01-9	Chrysene	568		11	5.6
53-70-3	Dibenz(a,h)anthracene	510		25	5.1
206-44-0	Fluoranthene	600		25	4.9
86-73-7	Fluorene	534		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	478		25	8.8
90-12-0	1-Methylnaphthalene	651		49	5.4
91-57-6	2-Methylnaphthalene	565		49	8.8
91-20-3	Naphthalene	466		49	5.4
85-01-8	Phenanthrene	732		9.9	4.8
129-00-0	Pyrene	687		25	4.6

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15024.D
 Lab Smp Id: 680-88118-a-11-b ms
 Inj Date : 15-MAR-2013 18:34
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-11-b ms
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 24 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.220	Weight Extracted
M	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				CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.309	2.303	(1.000)	449001	40.0000	
* 6 Acenaphthene-d10	164	3.329	3.324	(1.000)	310548	40.0000	
* 10 Phenanthrene-d10	188	4.259	4.248	(1.000)	468978	40.0000	
\$ 14 o-Terphenyl	230	4.531	4.526	(1.064)	36399	5.96683	392.0390
* 18 Chrysene-d12	240	6.262	6.246	(1.000)	362797	40.0000	
* 23 Perylene-d12	264	7.357	7.330	(1.000)	409387	40.0000	
2 Naphthalene	128	2.319	2.314	(1.005)	58643	5.65319	371.4316
3 2-Methylnaphthalene	141	2.720	2.715	(1.178)	37962	6.84613	449.8113
4 1-Methylnaphthalene	142	2.774	2.773	(1.201)	47050	7.88776	518.2496
5 Acenaphthylene	152	3.244	3.238	(0.974)	59205	5.44850	357.9827
7 Acenaphthene	154	3.345	3.345	(1.005)	35177	5.78517	380.1032
9 Fluorene	166	3.655	3.649	(1.098)	48837	6.47057	425.1361
11 Phenanthrene	178	4.269	4.264	(1.002)	105439	8.87077	582.8363
12 Anthracene	178	4.301	4.296	(1.010)	69423	6.02362	395.7699

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	4.467	4.456	(1.049)	57267	5.66914	372.4798
15 Fluoranthene	202	5.124	5.113	(1.203)	85455	7.27317	477.8692
16 Pyrene	202	5.290	5.279	(0.845)	86600	8.32514	546.9868
17 Benzo(a)anthracene	228	6.257	6.235	(0.999)	81889	7.95208	522.4758
19 Chrysene	228	6.278	6.262	(1.003)	64649	6.88006	452.0405
20 Benzo(b)fluoranthene	252	7.074	7.052	(0.962)	72827	7.65861	503.1940
21 Benzo(k)fluoranthene	252	7.090	7.074	(0.964)	53079	4.80664	315.8104
22 Benzo(a)pyrene	252	7.304	7.282	(0.993)	50576	5.26423	345.8761
24 Indeno(1,2,3-cd)pyrene	276	8.062	8.035	(1.096)	50242	5.79569	380.7941(M)
25 Dibenzo(a,h)anthracene	278	8.068	8.045	(1.097)	53155	6.18681	406.4924
26 Benzo(g,h,i)perylene	276	8.255	8.222	(1.122)	51073	5.85291	384.5537

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15024.D

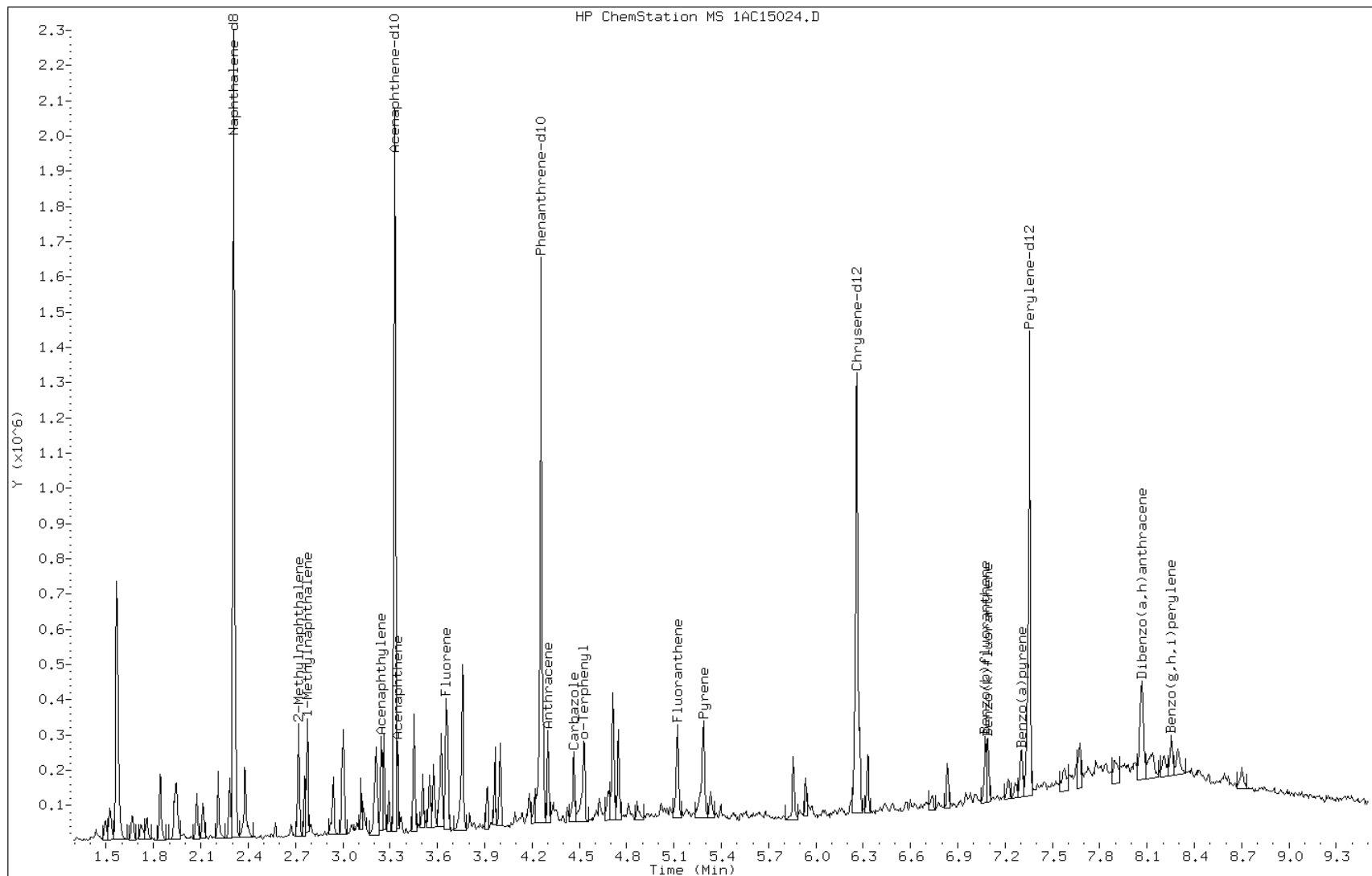
Date: 15-MAR-2013 18:34

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-b ms

Operator: SCC

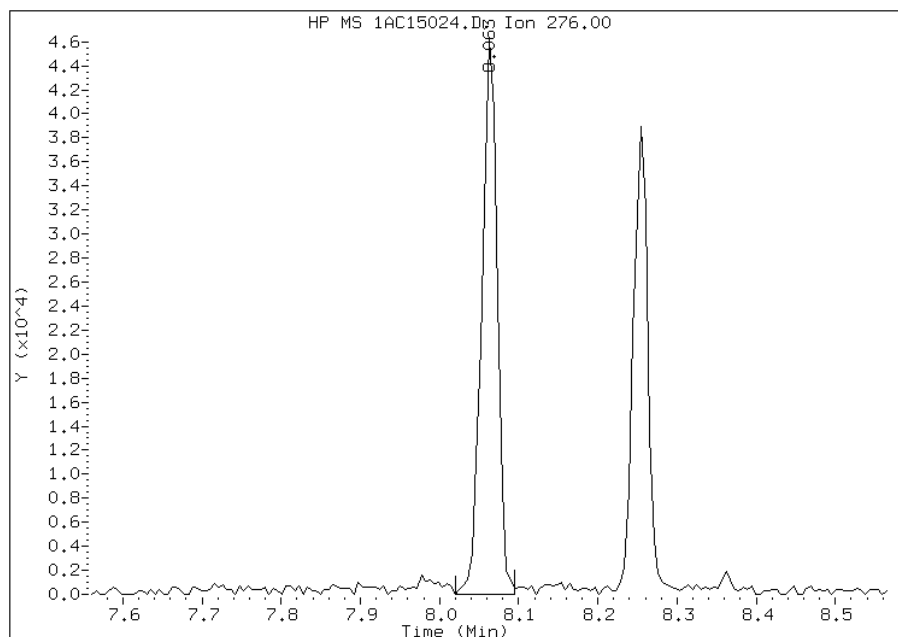


Manual Integration Report

Data File: 1AC15024.D
Inj. Date and Time: 15-MAR-2013 18:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

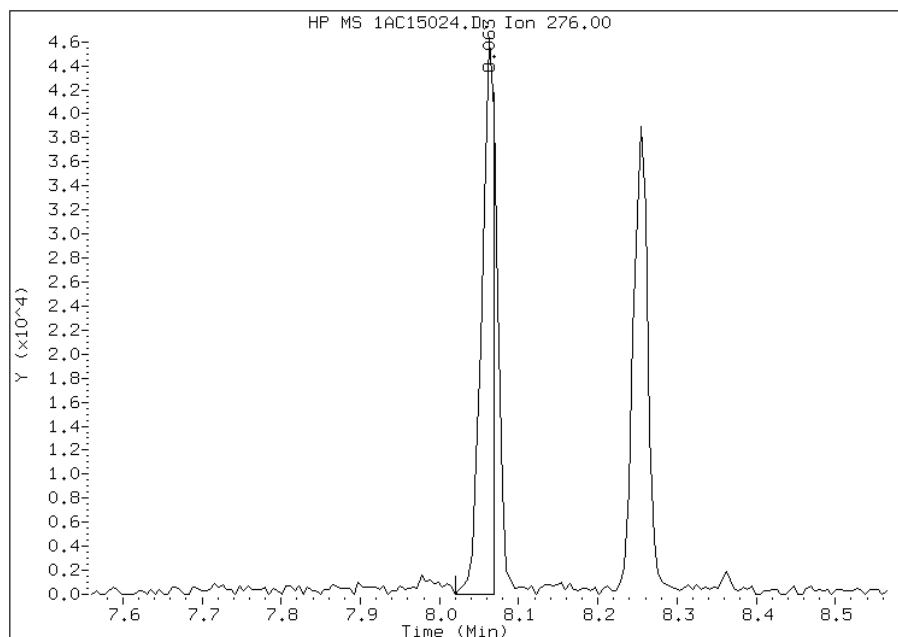
Processing Integration Results

RT: 8.06
Response: 62156
Amount: 7
Conc: 471



Manual Integration Results

RT: 8.06
Response: 50242
Amount: 6
Conc: 381



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:05
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1
 SDG No.: 68088118-1
 Client Sample ID: CV0684B-CS-SP MSD Lab Sample ID: 680-88118-11 MSD
 Matrix: Solid Lab File ID: 1AC15025.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 12:50
 Extract. Method: 3546 Date Extracted: 03/14/2013 08:53
 Sample wt/vol: 15.22(g) Date Analyzed: 03/15/2013 18:49
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 20.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135466 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	475		120	25
208-96-8	Acenaphthylene	437		49	6.2
120-12-7	Anthracene	558		10	5.2
56-55-3	Benzo[a]anthracene	711		9.9	4.8
50-32-8	Benzo[a]pyrene	477		13	6.4
205-99-2	Benzo[b]fluoranthene	645		15	7.5
191-24-2	Benzo[g,h,i]perylene	527		25	5.4
207-08-9	Benzo[k]fluoranthene	482		9.9	4.5
218-01-9	Chrysene	648		11	5.6
53-70-3	Dibenz(a,h)anthracene	569		25	5.1
206-44-0	Fluoranthene	675		25	4.9
86-73-7	Fluorene	516		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	568		25	8.8
90-12-0	1-Methylnaphthalene	760		49	5.4
91-57-6	2-Methylnaphthalene	590		49	8.8
91-20-3	Naphthalene	547		49	5.4
85-01-8	Phenanthrene	768		9.9	4.8
129-00-0	Pyrene	761		25	4.6

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15025.D
 Lab Smp Id: 680-88118-a-11-c ms
 Inj Date : 15-MAR-2013 18:49
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88118-a-11-c msd
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
 Als bottle: 25 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.220	Weight Extracted
M	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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.308	2.303	(1.000)	450087	40.0000	
* 6 Acenaphthene-d10	164		3.334	3.324	(1.000)	337225	40.0000	
* 10 Phenanthrene-d10	188		4.258	4.248	(1.000)	444488	40.0000	
\$ 14 o-Terphenyl	230		4.530	4.526	(1.064)	37543	6.47257	425.2674
* 18 Chrysene-d12	240		6.261	6.246	(1.000)	310596	40.0000	
* 23 Perylene-d12	264		7.356	7.330	(1.000)	403663	40.0000	
2 Naphthalene	128		2.319	2.314	(1.005)	68935	6.62931	435.5653
3 2-Methylnaphthalene	141		2.719	2.715	(1.178)	40022	7.15466	470.0824
4 1-Methylnaphthalene	142		2.778	2.773	(1.204)	55072	9.21034	605.1472
5 Acenaphthylene	152		3.248	3.238	(0.974)	62487	5.30319	348.4357
7 Acenaphthene	154		3.350	3.345	(1.005)	37973	5.75414	378.0643
9 Fluorene	166		3.654	3.649	(1.096)	51133	6.25235	410.7981
11 Phenanthrene	178		4.269	4.264	(1.002)	104913	9.31283	611.8811
12 Anthracene	178		4.306	4.296	(1.011)	73934	6.76847	444.7091

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.466	4.456 (1.049)		54256	5.66700	372.3390
15 Fluoranthene	202	5.123	5.113 (1.203)		91163	8.18648	537.8765
16 Pyrene	202	5.289	5.279 (0.845)		82101	9.21913	605.7246
17 Benzo(a)anthracene	228	6.256	6.235 (0.999)		76088	8.61620	566.1105
19 Chrysene	228	6.277	6.262 (1.003)		63212	7.85774	516.2772
20 Benzo(b)fluoranthene	252	7.079	7.052 (0.962)		73634	7.82271	513.9758
21 Benzo(k)fluoranthene	252	7.095	7.074 (0.964)		63602	5.84123	383.7865
22 Benzo(a)pyrene	252	7.303	7.282 (0.993)		54804	5.78520	380.1048
24 Indeno(1,2,3-cd)pyrene	276	8.067	8.035 (1.097)		58824	6.88189	452.1608(M)
25 Dibenzo(a,h)anthracene	278	8.078	8.045 (1.098)		58476	6.90265	453.5248
26 Benzo(g,h,i)perylene	276	8.259	8.222 (1.123)		55005	6.39290	420.0325

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15025.D

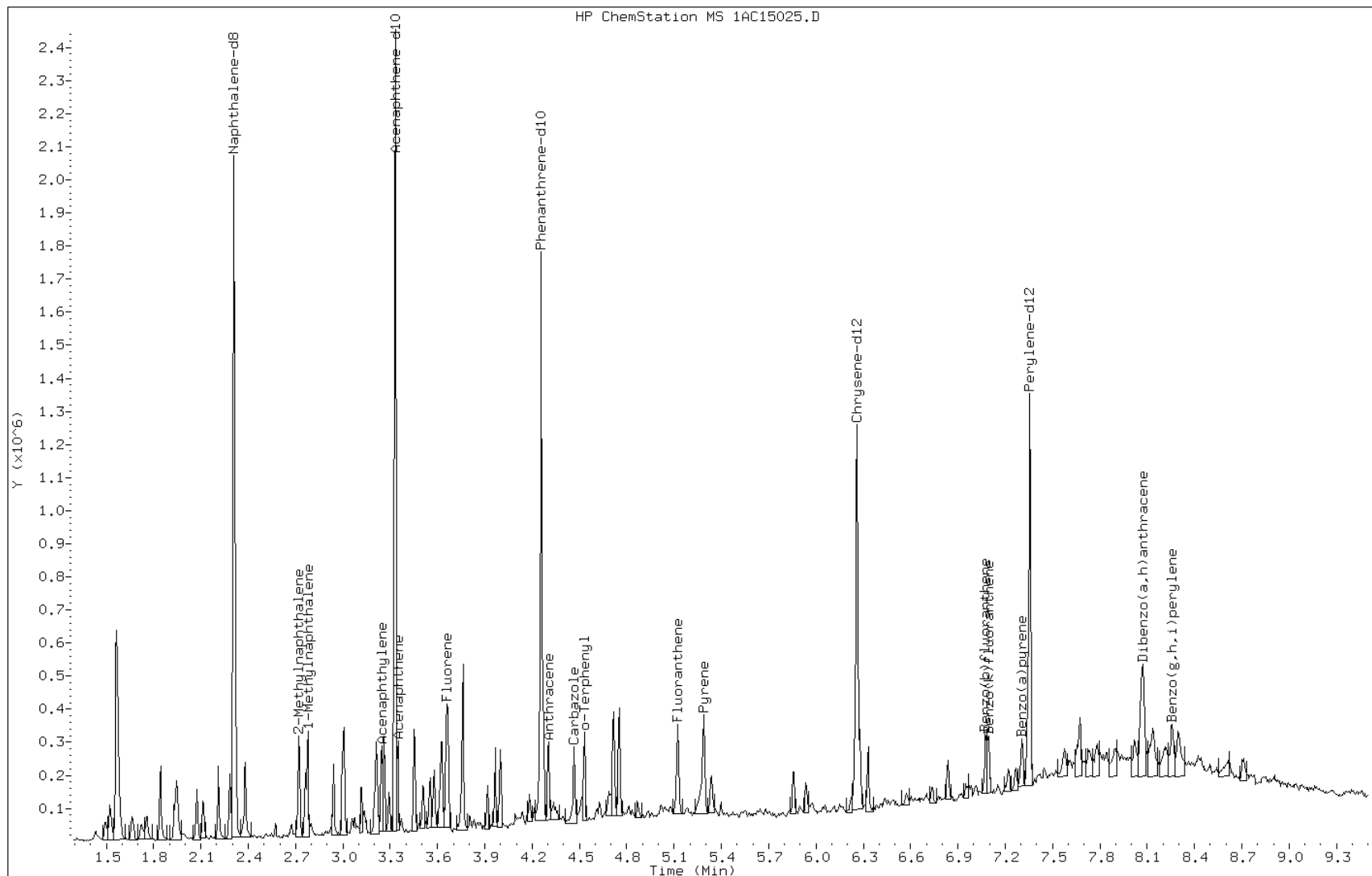
Date: 15-MAR-2013 18:49

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-88118-a-11-c msd

Operator: SCC

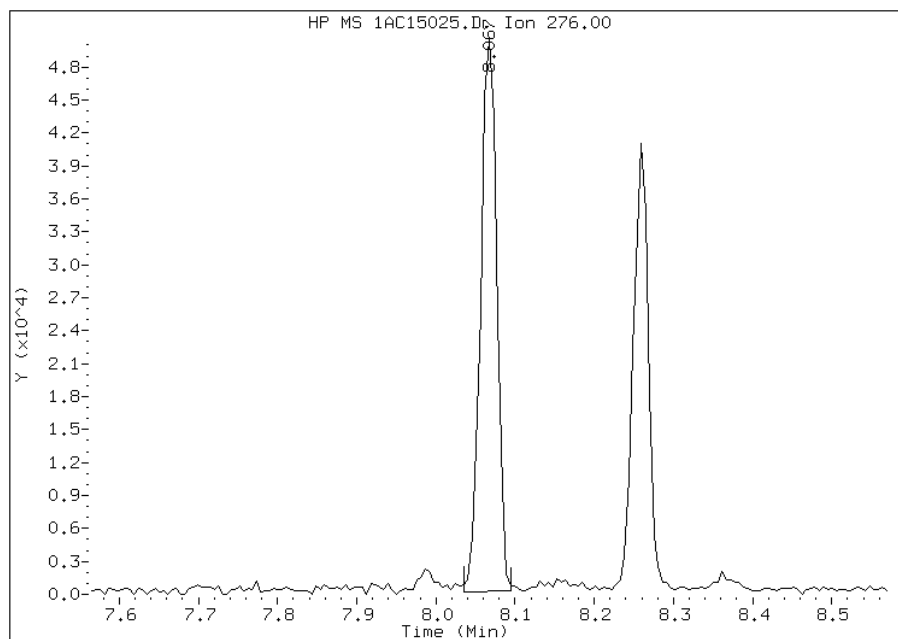


Manual Integration Report

Data File: 1AC15025.D
Inj. Date and Time: 15-MAR-2013 18:49
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

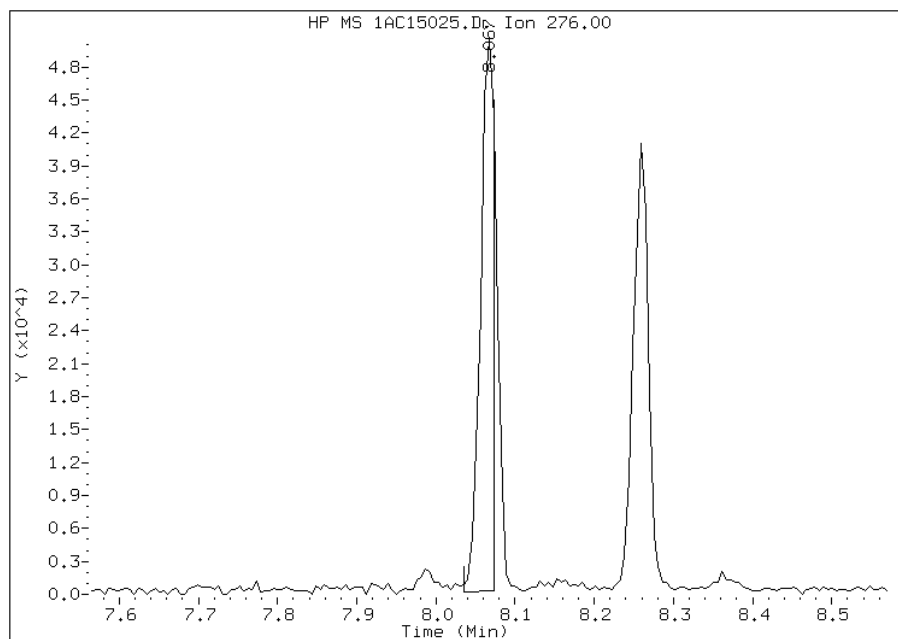
Processing Integration Results

RT: 8.07
Response: 70447
Amount: 8
Conc: 542



Manual Integration Results

RT: 8.07
Response: 58824
Amount: 7
Conc: 452



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:05
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88118-1SDG No.: 68088118-1Instrument ID: BSMA5973Start Date: 03/15/2013 12:08Analysis Batch Number: 135466End Date: 03/15/2013 21:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/15/2013 12:08	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 12:23	1		DB-5MS 250 (um)
DFTPP 660-135466/2		03/15/2013 12:38	1	1AC15002.D	DB-5MS 250 (um)
ICIS 660-135466/3		03/15/2013 12:54	1	1AC15003.D	DB-5MS 250 (um)
IC 660-135466/4		03/15/2013 13:09	1	1AC15004.D	DB-5MS 250 (um)
IC 660-135466/5		03/15/2013 13:24	1	1AC15005.D	DB-5MS 250 (um)
IC 660-135466/6		03/15/2013 13:39	1	1AC15006.D	DB-5MS 250 (um)
IC 660-135466/7		03/15/2013 13:54	1	1AC15007.D	DB-5MS 250 (um)
IC 660-135466/8		03/15/2013 14:10	1	1AC15008.D	DB-5MS 250 (um)
IC 660-135466/9		03/15/2013 14:25	1	1AC15009.D	DB-5MS 250 (um)
ICV 660-135466/10		03/15/2013 14:39	1	1AC15010.D	DB-5MS 250 (um)
MB 660-135376/1-A		03/15/2013 15:17	1	1AC15011.D	DB-5MS 250 (um)
LCS 660-135376/2-A		03/15/2013 15:32	1	1AC15012.D	DB-5MS 250 (um)
680-88118-1	CV0144A-CS-SP	03/15/2013 15:47	4	1AC15013.D	DB-5MS 250 (um)
680-88118-2	CV0144B-CS-SP	03/15/2013 16:02	4	1AC15014.D	DB-5MS 250 (um)
680-88118-3	CV0193A-CS-SP	03/15/2013 16:17	4	1AC15015.D	DB-5MS 250 (um)
680-88118-4	CV0628A-CS-SP	03/15/2013 16:33	1	1AC15016.D	DB-5MS 250 (um)
680-88118-5	CV0628B-CS-SP	03/15/2013 16:48	1	1AC15017.D	DB-5MS 250 (um)
680-88118-6	CV0628C-CS-SP	03/15/2013 17:03	1	1AC15018.D	DB-5MS 250 (um)
680-88118-7	CV0683A-CS-SP	03/15/2013 17:18	4	1AC15019.D	DB-5MS 250 (um)
680-88118-8	CV0683B-CS-SP	03/15/2013 17:33	1	1AC15020.D	DB-5MS 250 (um)
680-88118-9	CV0683C-GS-SP	03/15/2013 17:49	4	1AC15021.D	DB-5MS 250 (um)
680-88118-10	CV0684A-CS-SP	03/15/2013 18:04	1	1AC15022.D	DB-5MS 250 (um)
680-88118-11	CV0684B-CS-SP	03/15/2013 18:19	1	1AC15023.D	DB-5MS 250 (um)
680-88118-11 MS	CV0684B-CS-SP MS	03/15/2013 18:34	1	1AC15024.D	DB-5MS 250 (um)
680-88118-11 MSD	CV0684B-CS-SP MSD	03/15/2013 18:49	1	1AC15025.D	DB-5MS 250 (um)
680-88118-12	CV0684C-GS-SP	03/15/2013 19:05	4	1AC15026.D	DB-5MS 250 (um)
680-88118-13	CV0713A-CS-SP	03/15/2013 19:20	4	1AC15027.D	DB-5MS 250 (um)
680-88118-14	CV0713B-CS-SP	03/15/2013 19:35	1	1AC15028.D	DB-5MS 250 (um)
680-88118-15	CV0844A-CS	03/15/2013 19:50	1	1AC15029.D	DB-5MS 250 (um)
680-88118-16	CV0844B-CS	03/15/2013 20:05	4	1AC15030.D	DB-5MS 250 (um)
680-88118-17	CV0846A-CS	03/15/2013 20:21	1	1AC15031.D	DB-5MS 250 (um)
680-88118-18	CV0945A-CS	03/15/2013 20:36	4	1AC15032.D	DB-5MS 250 (um)
680-88118-19	CV0960A-CS	03/15/2013 20:51	1	1AC15033.D	DB-5MS 250 (um)
680-88118-20	FM0116A-CS-SP	03/15/2013 21:06	4	1AC15034.D	DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88118-1SDG No.: 68088118-1Instrument ID: BSMC5973Start Date: 02/22/2013 11:04Analysis Batch Number: 134776End Date: 02/22/2013 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:04	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 11:23	1		DB-5MS 250 (um)
DFTPP 660-134776/2		02/22/2013 11:41	1	1CB22002.D	DB-5MS 250 (um)
IC 660-134776/3		02/22/2013 11:57	1	1CB22003.D	DB-5MS 250 (um)
IC 660-134776/4		02/22/2013 12:16	1	1CB22004.D	DB-5MS 250 (um)
IC 660-134776/5		02/22/2013 12:34	1	1CB22005.D	DB-5MS 250 (um)
IC 660-134776/6		02/22/2013 12:53	1	1CB22006.D	DB-5MS 250 (um)
ICIS 660-134776/7		02/22/2013 13:11	1	1CB22007.D	DB-5MS 250 (um)
IC 660-134776/8		02/22/2013 13:29	1	1CB22008.D	DB-5MS 250 (um)
IC 660-134776/9		02/22/2013 13:48	1	1CB22009.D	DB-5MS 250 (um)
ICV 660-134776/10		02/22/2013 14:06	1	1CB22010.D	DB-5MS 250 (um)
ZZZZZ		02/22/2013 14:26	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 14:45	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:03	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:21	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:40	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:58	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:16	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:34	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:53	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:11	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:29	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:48	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:06	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:24	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:43	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:01	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:38	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88118-1SDG No.: 68088118-1Instrument ID: BSMC5973 Start Date: 03/19/2013 10:20Analysis Batch Number: 135536 End Date: 03/19/2013 14:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/19/2013 10:20	1		DB-5MS 250 (um)
ZZZZZ		03/19/2013 10:38	1		DB-5MS 250 (um)
DFTPP 660-135536/2		03/19/2013 10:57	1	1CC19002.D	DB-5MS 250 (um)
CCVIS 660-135536/3		03/19/2013 11:18	1	1CC19003.D	DB-5MS 250 (um)
ZZZZZ		03/19/2013 11:45	1		DB-5MS 250 (um)
ZZZZZ		03/19/2013 12:11	1		DB-5MS 250 (um)
680-88118-15 DL	CV0844A-CS DL	03/19/2013 12:30	4	1CC19006.D	DB-5MS 250 (um)
ZZZZZ		03/19/2013 12:48	1		DB-5MS 250 (um)
ZZZZZ		03/19/2013 13:07	1		DB-5MS 250 (um)
ZZZZZ		03/19/2013 13:25	1		DB-5MS 250 (um)
ZZZZZ		03/19/2013 14:47	20		DB-5MS 250 (um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1SDG No.: 68088118-1Batch Number: 135376 Batch Start Date: 03/14/13 08:53 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/14/13 16:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00177		
MB 660-135376/1		3546, 8270C LL		14.92 g	1 mL		1 mL		
LCS 660-135376/2		3546, 8270C LL		15.41 g	1 mL	1 mL	1 mL		
680-88118-A-1	CV0144A-CS-SP	3546, 8270C LL	T	15.12 g	1 mL		1 mL		
680-88118-A-2	CV0144B-CS-SP	3546, 8270C LL	T	15.03 g	1 mL		1 mL		
680-88118-A-3	CV0193A-CS-SP	3546, 8270C LL	T	15.25 g	1 mL		1 mL		
680-88118-A-4	CV0628A-CS-SP	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-88118-A-5	CV0628B-CS-SP	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-88118-A-6	CV0628C-CS-SP	3546, 8270C LL	T	15.23 g	1 mL		1 mL		
680-88118-A-7	CV0683A-CS-SP	3546, 8270C LL	T	15.12 g	1 mL		1 mL		
680-88118-A-8	CV0683B-CS-SP	3546, 8270C LL	T	15.47 g	1 mL		1 mL		
680-88118-A-9	CV0683C-GS-SP	3546, 8270C LL	T	15.18 g	1 mL		1 mL		
680-88118-A-10	CV0684A-CS-SP	3546, 8270C LL	T	15.49 g	1 mL		1 mL		
680-88118-A-11	CV0684B-CS-SP	3546, 8270C LL	T	15.22 g	1 mL		1 mL		
680-88118-A-11 MS	CV0684B-CS-SP	3546, 8270C LL	T	15.22 g	1 mL	1 mL	1 mL		
680-88118-A-11 MSD	CV0684B-CS-SP	3546, 8270C LL	T	15.22 g	1 mL	1 mL	1 mL		
680-88118-A-12	CV0684C-GS-SP	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-88118-A-13	CV0713A-CS-SP	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-88118-A-14	CV0713B-CS-SP	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-88118-A-15	CV0844A-CS	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-88118-A-16	CV0844B-CS	3546, 8270C LL	T	15.20 g	1 mL		1 mL		
680-88118-A-17	CV0846A-CS	3546, 8270C LL	T	15.26 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

Page 1 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1SDG No.: 68088118-1Batch Number: 135376 Batch Start Date: 03/14/13 08:53 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/14/13 16:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00177		
680-88118-A-18	CV0945A-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-88118-A-19	CV0960A-CS	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-88118-A-20	FM0116A-CS-SP	3546, 8270C LL	T	14.93 g	1 mL		1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT_49
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL 54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_54
MeCl2/Acetone Lot #	DCM/ACETON_42
Microwave Start Time	10:30 3/14/13
Microwave Stop Time	11:05 3/14/13
Na2SO4 Lot Number	EX-NA2S04A_63
Ottawa Sand Lot #	EX-OTTOWA SAND 12
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT_177
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88118-1
SDG No.: 68088118-1
Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0144A-CS-SP	680-88118-1
CV0144B-CS-SP	680-88118-2
CV0193A-CS-SP	680-88118-3
CV0628A-CS-SP	680-88118-4
CV0628B-CS-SP	680-88118-5
CV0628C-CS-SP	680-88118-6
CV0683A-CS-SP	680-88118-7
CV0683B-CS-SP	680-88118-8
CV0683C-GS-SP	680-88118-9
CV0684A-CS-SP	680-88118-10
CV0684B-CS-SP	680-88118-11
CV0684C-GS-SP	680-88118-12
CV0713A-CS-SP	680-88118-13
CV0713B-CS-SP	680-88118-14
CV0844A-CS	680-88118-15
CV0844B-CS	680-88118-16
CV0846A-CS	680-88118-17
CV0945A-CS	680-88118-18
CV0960A-CS	680-88118-19
FM0116A-CS-SP	680-88118-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88118-1
SDG Number: 68088118-1
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: 680-88118-1
SDG Number: 68088118-1
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1

SDG No.: 68088118-1

Batch Number: 135258 Batch Start Date: 03/11/13 12:26 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-135258/1		Moisture		mb	0 g	9.21 g	9.19 g		
680-88118-A-19	CV0960A-CS	Moisture	T	1	0 g	4.86 g	3.96 g		
680-88118-A-7	CV0683A-CS-SP	Moisture	T	2	0 g	4.22 g	3.05 g		
680-88118-A-4	CV0628A-CS-SP	Moisture	T	3	0 g	4.39 g	3.07 g		
680-88118-A-15	CV0844A-CS	Moisture	T	9	0 g	5.04 g	3.99 g		
680-88118-A-13	CV0713A-CS-SP	Moisture	T	10	0 g	5.17 g	4.07 g		
680-88118-A-9	CV0683C-GS-SP	Moisture	T	11	0 g	5.74 g	4.66 g		
680-88118-A-12	CV0684C-GS-SP	Moisture	T	13	0 g	5.39 g	3.93 g		
680-88118-A-3	CV0193A-CS-SP	Moisture	T	16	0 g	4.32 g	3.43 g		
680-88118-A-10	CV0684A-CS-SP	Moisture	T	19	0 g	4.84 g	3.64 g		
680-88118-A-17	CV0846A-CS	Moisture	T	20	0 g	4.59 g	3.86 g		
680-88118-A-1	CV0144A-CS-SP	Moisture	T	21	0 g	4.80 g	3.74 g		
680-88118-A-6	CV0628C-CS-SP	Moisture	T	25	0 g	5.22 g	3.82 g		
680-88118-A-2	CV0144B-CS-SP	Moisture	T	26	0 g	4.72 g	3.48 g		
680-88118-A-8	CV0683B-CS-SP	Moisture	T	27	0 g	5.35 g	4.23 g		
680-88118-A-21 MS		Moisture	T	28	0 g	4.62 g	3.04 g		
680-88118-A-21 MSD		Moisture	T	28	0 g	4.62 g	3.04 g		
680-88118-A-20	FM0116A-CS-SP	Moisture	T	31	0 g	4.64 g	3.22 g		
680-88118-A-18	CV0945A-CS	Moisture	T	32	0 g	4.43 g	3.34 g		
680-88118-A-16	CV0844B-CS	Moisture	T	33	0 g	4.98 g	3.91 g		
680-88118-A-11	CV0684B-CS-SP	Moisture	T	35	0 g	6.73 g	5.36 g		
680-88118-A-11 MS	CV0684B-CS-SP	Moisture	T	35	0 g	6.73 g	5.36 g		
680-88118-A-11 MSD	CV0684B-CS-SP	Moisture	T	35	0 g	6.73 g	5.36 g		
680-88118-A-5	CV0628B-CS-SP	Moisture	T	36	0 g	4.65 g	3.35 g		
680-88118-A-14	CV0713B-CS-SP	Moisture	T	38	0 g	4.90 g	3.81 g		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-1

SDG No.: 68088118-1

Batch Number: 135258 Batch Start Date: 03/11/13 12:26 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: _____

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	3.11.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

Shipping and Receiving Documents

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE 35th Avenue Removal	PROJECT NO.	PROJECT LOCATION (STATE) GA	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 1	OF 4
TAL (LAB) PROJECT MANAGER Lisa Harvey	P.O. NUMBER 2005148-1356	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...) ULPRA PCRA 8	PRESERVATIVE	STANDARD REPORT DELIVERY	<input type="checkbox"/>
	CLIENT FAX				DATE DUE _____	EXPEDITED REPORT DELIVERY (SURCHARGE)
					DATE DUE _____	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED				REMARKS
DATE	TIME							1	2	3	4	
3/16/13	0932	CV0144A-CS-SP	C	✓			X					
	0952	CV0144B-CS-SP	C	✓			X					
	1338	CV0193A-CS-SP	C	✓			X					
	0825	CV0628A-CS-SP	C	✓			X					
	0830	CV0628B-CS-SP	C	✓			X					
	0835	CV0628C-CS-SP	C	✓			X					
	1211	CV0683A-CS-SP	C	✓			X					
	1220	CV0683B-CS-SP	C	✓			X					
	1227	CV0683C-GS-SP	G	✓			X					
	1238	CV0684A-CS-SP	C	✓			X					
	1250	CV0684B-CS-SP	C	✓			X	X				
	1301	CV0684C-GS-SP	G	✓			X					

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3/16/13	TIME 1800	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY						
RECEIVED FOR LABORATORY BY (SIGNATURE) <i>[Signature]</i>	DATE 03/08/13	TIME 0921	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 88118	LABORATORY REMARKS 2-8 c

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

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TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE 35th Avenue Removal	PROJECT NO.	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 2 OF 4																																								
TAL (LAB) PROJECT MANAGER Lisa Horvath	P.O. NUMBER 2005148-1356	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE	<table border="1"> <tr> <td>LCRA</td> <td>PCRA</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="20" style="text-align: center;">PRESERVATIVE</td> </tr> </table>	LCRA	PCRA																			PRESERVATIVE																				STANDARD REPORT DELIVERY <input type="checkbox"/>
LCRA	PCRA																																												
PRESERVATIVE																																													
					DATE DUE _____																																								
					EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>																																								
					DATE DUE _____																																								
					NUMBER OF COOLERS SUBMITTED PER SHIPMENT:																																								

(b) (6)
(b) (6)
(b) (6)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	WATER	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS								
DATE	TIME																									
3/6/13	0857	CV0713A-CS-SP	C	✓			X																			
	0911	CV0713B-CS-SP	C	✓			X																			
	0930	CV0844A-CS	C	✓			X																			
	0940	CV0844B-CS	C	✓			X																			
	0905	CV0846A-CS	C	✓			X																			
	10:45	CV0945A-CS	C	✓			X																			
	10:15	CV0960A-CS	C	✓			X																			
	1037	PM0116A-CS-SP	C	✓			X																			
	10:47	PM0116B-CS-SP	C	✓			X																			
	08:35	NP0113A-CS	C	✓			X																			
	08:35	NP0113A-CSO	C	✓			X																			
	15:40	CV0116A-CS	C	✓			X																			

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3/7/13	TIME 18:00	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY							
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 03/07/13	TIME 0921	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-88118	LABORATORY REMARKS 2-80	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-1

SDG Number: 68088118-1

Login Number: 88118

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 $<6\text{mm}$ (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: 680-88118-1

SDG Number: 68088118-1

Login Number: 88118

List Source: TestAmerica Tampa

List Number: 1

List Creation: 03/09/13 12:05 PM

Creator: Edwards, Erricka

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-1

SDG Number: 68088118-1

Login Number: 88118
List Number: 2
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 03/12/13 08:49 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-88118-1

TestAmerica Sample Delivery Group: 68088118-1

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:

3/20/2013 1:26:35 PM

Bernard Kirkland

Project Manager I

bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey

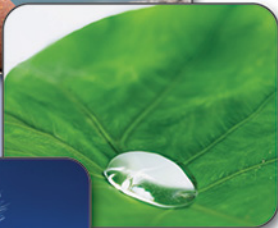
Project Manager II

lisa.harvey@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.



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Case Narrative

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

TestAmerica Job ID: 680-88118-1
SDG: 68088118-1

Job ID: 680-88118-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88118-1

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 03/08/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0144A-CS-SP (680-88118-1), CV0144B-CS-SP (680-88118-2), CV0193A-CS-SP (680-88118-3), CV0628A-CS-SP (680-88118-4), CV0628B-CS-SP (680-88118-5), CV0628C-CS-SP (680-88118-6), CV0683A-CS-SP (680-88118-7), CV0683B-CS-SP (680-88118-8), CV0683C-GS-SP (680-88118-9), CV0684A-CS-SP (680-88118-10), CV0684B-CS-SP (680-88118-11), CV0684C-GS-SP (680-88118-12), CV0713A-CS-SP (680-88118-13), CV0713B-CS-SP (680-88118-14), CV0844A-CS (680-88118-15), CV0844B-CS (680-88118-16), CV0846A-CS (680-88118-17), CV0945A-CS (680-88118-18), CV0960A-CS (680-88118-19) and FM0116A-CS-SP (680-88118-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/14/2013 and analyzed on 03/15/2013 and 03/19/2013.

Samples CV0144A-CS-SP (680-88118-1)[4X], CV0144B-CS-SP (680-88118-2)[4X], CV0193A-CS-SP (680-88118-3)[4X], CV0683A-CS-SP (680-88118-7)[4X], CV0683C-GS-SP (680-88118-9)[4X], CV0684C-GS-SP (680-88118-12)[4X], CV0713A-CS-SP (680-88118-13)[4X], CV0844A-CS (680-88118-15)[4X], CV0844B-CS (680-88118-16)[4X], CV0945A-CS (680-88118-18)[4X] and FM0116A-CS-SP (680-88118-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[a]pyrene recovered outside the recovery criteria for the MS/MSD of sample CV0684B-CS-SP (680-88118-11) in batch 660-135466.

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: 680-88118-1
SDG: 68088118-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88118-1	CV0144A-CS-SP	Solid	03/06/13 09:32	03/08/13 09:21
680-88118-2	CV0144B-CS-SP	Solid	03/06/13 09:52	03/08/13 09:21
680-88118-3	CV0193A-CS-SP	Solid	03/06/13 13:38	03/08/13 09:21
680-88118-4	CV0628A-CS-SP	Solid	03/06/13 08:25	03/08/13 09:21
680-88118-5	CV0628B-CS-SP	Solid	03/06/13 08:30	03/08/13 09:21
680-88118-6	CV0628C-CS-SP	Solid	03/06/13 08:35	03/08/13 09:21
680-88118-7	CV0683A-CS-SP	Solid	03/06/13 12:11	03/08/13 09:21
680-88118-8	CV0683B-CS-SP	Solid	03/06/13 12:20	03/08/13 09:21
680-88118-9	CV0683C-GS-SP	Solid	03/06/13 12:27	03/08/13 09:21
680-88118-10	CV0684A-CS-SP	Solid	03/06/13 12:38	03/08/13 09:21
680-88118-11	CV0684B-CS-SP	Solid	03/06/13 12:50	03/08/13 09:21
680-88118-12	CV0684C-GS-SP	Solid	03/06/13 13:01	03/08/13 09:21
680-88118-13	CV0713A-CS-SP	Solid	03/06/13 08:57	03/08/13 09:21
680-88118-14	CV0713B-CS-SP	Solid	03/06/13 09:11	03/08/13 09:21
680-88118-15	CV0844A-CS	Solid	03/06/13 09:30	03/08/13 09:21
680-88118-16	CV0844B-CS	Solid	03/06/13 09:40	03/08/13 09:21
680-88118-17	CV0846A-CS	Solid	03/06/13 09:05	03/08/13 09:21
680-88118-18	CV0945A-CS	Solid	03/06/13 10:45	03/08/13 09:21
680-88118-19	CV0960A-CS	Solid	03/06/13 10:15	03/08/13 09:21
680-88118-20	FM0116A-CS-SP	Solid	03/06/13 10:37	03/08/13 09:21

Method Summary

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

TestAmerica Job ID: 680-88118-1
SDG: 68088118-1

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

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Definitions/Glossary

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

TestAmerica Job ID: 680-88118-1
SDG: 68088118-1

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.
α	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: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0144A-CS-SP

Lab Sample ID: 680-88118-1

Date Collected: 03/06/13 09:32

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	J	510	100	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4
Acenaphthylene	160	J	200	25	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4
Anthracene	200		43	21	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4
Benzo[a]anthracene	670		41	20	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4
Benzo[a]pyrene	420		53	26	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4
Benzo[b]fluoranthene	1100		62	31	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4
Benzo[g,h,i]perylene	280		100	22	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4
Benzo[k]fluoranthene	160		41	18	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4
Chrysene	650		46	23	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4
Dibenz(a,h)anthracene	110		100	21	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4
Fluoranthene	870		100	20	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4
Fluorene	150		100	21	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4
Indeno[1,2,3-cd]pyrene	240		100	36	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4
1-Methylnaphthalene	220		200	22	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4
2-Methylnaphthalene	540		200	36	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4
Naphthalene	220		200	22	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4
Phenanthrene	790		41	20	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4
Pyrene	720		100	19	ug/Kg	☼	03/14/13 08:53	03/15/13 15:47	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	73		30 - 130	03/14/13 08:53	03/15/13 15:47	4

Client Sample ID: CV0144B-CS-SP

Lab Sample ID: 680-88118-2

Date Collected: 03/06/13 09:52

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 73.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1200		540	110	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4
Acenaphthylene	300		220	27	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4
Anthracene	940		45	23	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4
Benzo[a]anthracene	3700		43	21	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4
Benzo[a]pyrene	3100		56	28	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4
Benzo[b]fluoranthene	5000		66	33	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4
Benzo[g,h,i]perylene	2000		110	24	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4
Benzo[k]fluoranthene	1800		43	19	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4
Chrysene	4600		49	24	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4
Dibenz(a,h)anthracene	800		110	22	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4
Fluoranthene	9800		110	22	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4
Fluorene	1200		110	22	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4
Indeno[1,2,3-cd]pyrene	1900		110	38	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4
1-Methylnaphthalene	2700		220	24	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4
2-Methylnaphthalene	3000		220	38	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4
Naphthalene	3400		220	24	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4
Phenanthrene	14000		43	21	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4
Pyrene	8900		110	20	ug/Kg	☼	03/14/13 08:53	03/15/13 16:02	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	89		30 - 130	03/14/13 08:53	03/15/13 16:02	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0193A-CS-SP

Lab Sample ID: 680-88118-3

Date Collected: 03/06/13 13:38

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	J	500	99	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Acenaphthylene	170	J	200	25	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Anthracene	140		42	21	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Benzo[a]anthracene	560		40	19	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Benzo[a]pyrene	370		52	26	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Benzo[b]fluoranthene	930		60	30	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Benzo[g,h,i]perylene	220		99	22	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Benzo[k]fluoranthene	260		40	18	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Chrysene	570		45	22	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Dibenz(a,h)anthracene	130		99	20	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Fluoranthene	760		99	20	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Fluorene	120		99	20	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Indeno[1,2,3-cd]pyrene	240		99	35	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
1-Methylnaphthalene	160	J	200	22	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
2-Methylnaphthalene	480		200	35	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Naphthalene	160	J	200	22	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Phenanthrene	510		40	19	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Pyrene	640		99	18	ug/Kg	☼	03/14/13 08:53	03/15/13 16:17	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	90		30 - 130				03/14/13 08:53	03/15/13 16:17	4

Client Sample ID: CV0628A-CS-SP

Lab Sample ID: 680-88118-4

Date Collected: 03/06/13 08:25

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 69.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	51	J	140	29	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Acenaphthylene	32	J	57	7.1	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Anthracene	26		12	6.0	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Benzo[a]anthracene	130		11	5.6	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Benzo[a]pyrene	92		15	7.4	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Benzo[b]fluoranthene	260		17	8.7	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Benzo[g,h,i]perylene	84		29	6.3	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Benzo[k]fluoranthene	55		11	5.1	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Chrysene	190		13	6.4	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Dibenz(a,h)anthracene	30		29	5.9	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Fluoranthene	140		29	5.7	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Fluorene	36		29	5.9	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Indeno[1,2,3-cd]pyrene	74		29	10	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
1-Methylnaphthalene	81		57	6.3	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
2-Methylnaphthalene	160		57	10	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Naphthalene	89		57	6.3	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Phenanthrene	160		11	5.6	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Pyrene	190		29	5.3	ug/Kg	☼	03/14/13 08:53	03/15/13 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		30 - 130				03/14/13 08:53	03/15/13 16:33	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0628B-CS-SP

Lab Sample ID: 680-88118-5

Date Collected: 03/06/13 08:30

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 72.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	46	J	140	28	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
Acenaphthylene	30	J	55	6.9	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
Anthracene	24		12	5.8	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
Benzo[a]anthracene	98		11	5.4	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
Benzo[a]pyrene	76		14	7.2	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
Benzo[b]fluoranthene	220		17	8.5	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
Benzo[g,h,i]perylene	67		28	6.1	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
Benzo[k]fluoranthene	51		11	5.0	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
Chrysene	140		12	6.2	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
Dibenz(a,h)anthracene	24	J	28	5.7	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
Fluoranthene	120		28	5.5	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
Fluorene	25	J	28	5.7	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
Indeno[1,2,3-cd]pyrene	41		28	9.8	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
1-Methylnaphthalene	59		55	6.1	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
2-Methylnaphthalene	140		55	9.8	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
Naphthalene	58		55	6.1	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
Phenanthrene	120		11	5.4	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
Pyrene	150		28	5.1	ug/Kg	☼	03/14/13 08:53	03/15/13 16:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		30 - 130				03/14/13 08:53	03/15/13 16:48	1

Client Sample ID: CV0628C-CS-SP

Lab Sample ID: 680-88118-6

Date Collected: 03/06/13 08:35

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 73.2

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	☼	03/14/13 08:53	03/15/13 17:03	1
Acenaphthylene	25	J	54	6.7	ug/Kg	☼	03/14/13 08:53	03/15/13 17:03	1
Anthracene	19		11	5.7	ug/Kg	☼	03/14/13 08:53	03/15/13 17:03	1
Benzo[a]anthracene	100		11	5.2	ug/Kg	☼	03/14/13 08:53	03/15/13 17:03	1
Benzo[a]pyrene	53		14	7.0	ug/Kg	☼	03/14/13 08:53	03/15/13 17:03	1
Benzo[b]fluoranthene	200		16	8.2	ug/Kg	☼	03/14/13 08:53	03/15/13 17:03	1
Benzo[g,h,i]perylene	60		27	5.9	ug/Kg	☼	03/14/13 08:53	03/15/13 17:03	1
Benzo[k]fluoranthene	36		11	4.8	ug/Kg	☼	03/14/13 08:53	03/15/13 17:03	1
Chrysene	85		12	6.1	ug/Kg	☼	03/14/13 08:53	03/15/13 17:03	1
Dibenz(a,h)anthracene	27		27	5.5	ug/Kg	☼	03/14/13 08:53	03/15/13 17:03	1
Fluoranthene	80		27	5.4	ug/Kg	☼	03/14/13 08:53	03/15/13 17:03	1
Fluorene	27	U	27	5.5	ug/Kg	☼	03/14/13 08:53	03/15/13 17:03	1
Indeno[1,2,3-cd]pyrene	45		27	9.6	ug/Kg	☼	03/14/13 08:53	03/15/13 17:03	1
1-Methylnaphthalene	31	J	54	5.9	ug/Kg	☼	03/14/13 08:53	03/15/13 17:03	1
2-Methylnaphthalene	120		54	9.6	ug/Kg	☼	03/14/13 08:53	03/15/13 17:03	1
Naphthalene	53	J	54	5.9	ug/Kg	☼	03/14/13 08:53	03/15/13 17:03	1
Phenanthrene	63		11	5.2	ug/Kg	☼	03/14/13 08:53	03/15/13 17:03	1
Pyrene	120		27	5.0	ug/Kg	☼	03/14/13 08:53	03/15/13 17:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130				03/14/13 08:53	03/15/13 17:03	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0683A-CS-SP

Lab Sample ID: 680-88118-7

Date Collected: 03/06/13 12:11

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 72.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
Acenaphthylene	96	J	220	27	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
Anthracene	84		46	23	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
Benzo[a]anthracene	380		44	21	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
Benzo[a]pyrene	220		57	29	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
Benzo[b]fluoranthene	820		67	33	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
Benzo[g,h,i]perylene	220		110	24	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
Benzo[k]fluoranthene	130		44	20	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
Chrysene	440		49	25	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
Dibenz(a,h)anthracene	86	J	110	23	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
Fluoranthene	430		110	22	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
Fluorene	110	U	110	23	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
Indeno[1,2,3-cd]pyrene	170		110	39	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
1-Methylnaphthalene	120	J	220	24	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
2-Methylnaphthalene	460		220	39	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
Naphthalene	200	J	220	24	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
Phenanthrene	340		44	21	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
Pyrene	380		110	20	ug/Kg	☼	03/14/13 08:53	03/15/13 17:18	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	74		30 - 130				03/14/13 08:53	03/15/13 17:18	4

Client Sample ID: CV0683B-CS-SP

Lab Sample ID: 680-88118-8

Date Collected: 03/06/13 12:20

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
Acenaphthylene	28	J	49	6.1	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
Anthracene	30		10	5.2	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
Benzo[a]anthracene	98		9.8	4.8	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
Benzo[a]pyrene	62		13	6.4	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
Benzo[b]fluoranthene	190		15	7.5	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
Benzo[g,h,i]perylene	70		25	5.4	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
Benzo[k]fluoranthene	36		9.8	4.4	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
Chrysene	120		11	5.5	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
Dibenz(a,h)anthracene	22	J	25	5.0	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
Fluoranthene	110		25	4.9	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
Fluorene	25	U	25	5.0	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
Indeno[1,2,3-cd]pyrene	56		25	8.7	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
1-Methylnaphthalene	38	J	49	5.4	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
2-Methylnaphthalene	130		49	8.7	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
Naphthalene	76		49	5.4	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
Phenanthrene	110		9.8	4.8	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
Pyrene	100		25	4.5	ug/Kg	☼	03/14/13 08:53	03/15/13 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130				03/14/13 08:53	03/15/13 17:33	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0683C-GS-SP

Lab Sample ID: 680-88118-9

Date Collected: 03/06/13 12:27

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	190	J	490	97	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
Acenaphthylene	180	J	190	24	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
Anthracene	220		41	20	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
Benzo[a]anthracene	700		39	19	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
Benzo[a]pyrene	310		51	25	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
Benzo[b]fluoranthene	900		59	30	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
Benzo[g,h,i]perylene	410		97	21	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
Benzo[k]fluoranthene	300		39	18	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
Chrysene	790		44	22	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
Dibenz(a,h)anthracene	190		97	20	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
Fluoranthene	710		97	19	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
Fluorene	230		97	20	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
Indeno[1,2,3-cd]pyrene	310		97	35	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
1-Methylnaphthalene	540		190	21	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
2-Methylnaphthalene	840		190	35	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
Naphthalene	580		190	21	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
Phenanthrene	1100		39	19	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
Pyrene	790		97	18	ug/Kg	☼	03/14/13 08:53	03/15/13 17:49	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	80		30 - 130				03/14/13 08:53	03/15/13 17:49	4

Client Sample ID: CV0684A-CS-SP

Lab Sample ID: 680-88118-10

Date Collected: 03/06/13 12:38

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	47	J	130	26	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
Acenaphthylene	49	J	52	6.4	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
Anthracene	56		11	5.4	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
Benzo[a]anthracene	280		10	5.0	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
Benzo[a]pyrene	170		13	6.7	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
Benzo[b]fluoranthene	410		16	7.9	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
Benzo[g,h,i]perylene	190		26	5.7	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
Benzo[k]fluoranthene	89		10	4.6	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
Chrysene	360		12	5.8	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
Dibenz(a,h)anthracene	87		26	5.3	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
Fluoranthene	330		26	5.2	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
Fluorene	57		26	5.3	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
Indeno[1,2,3-cd]pyrene	140		26	9.1	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
1-Methylnaphthalene	130		52	5.7	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
2-Methylnaphthalene	220		52	9.1	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
Naphthalene	150		52	5.7	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
Phenanthrene	360		10	5.0	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
Pyrene	310		26	4.8	ug/Kg	☼	03/14/13 08:53	03/15/13 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	54		30 - 130				03/14/13 08:53	03/15/13 18:04	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0684B-CS-SP

Lab Sample ID: 680-88118-11

Date Collected: 03/06/13 12:50

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
Acenaphthylene	34	J	49	6.2	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
Anthracene	33		10	5.2	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
Benzo[a]anthracene	200		9.9	4.8	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
Benzo[a]pyrene	120	F	13	6.4	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
Benzo[b]fluoranthene	280		15	7.5	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
Benzo[g,h,i]perylene	120		25	5.4	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
Benzo[k]fluoranthene	58		9.9	4.5	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
Chrysene	180		11	5.6	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
Dibenz(a,h)anthracene	52		25	5.1	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
Fluoranthene	170		25	4.9	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
Fluorene	25	U	25	5.1	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
Indeno[1,2,3-cd]pyrene	110		25	8.8	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
1-Methylnaphthalene	78		49	5.4	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
2-Methylnaphthalene	150		49	8.8	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
Naphthalene	96		49	5.4	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
Phenanthrene	180		9.9	4.8	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
Pyrene	170		25	4.6	ug/Kg	☼	03/14/13 08:53	03/15/13 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130				03/14/13 08:53	03/15/13 18:19	1

Client Sample ID: CV0684C-GS-SP

Lab Sample ID: 680-88118-12

Date Collected: 03/06/13 13:01

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 72.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	200	J	550	110	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
Acenaphthylene	200	J	220	27	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
Anthracene	200		46	23	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
Benzo[a]anthracene	730		44	21	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
Benzo[a]pyrene	370		57	28	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
Benzo[b]fluoranthene	1000		67	33	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
Benzo[g,h,i]perylene	410		110	24	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
Benzo[k]fluoranthene	220		44	20	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
Chrysene	900		49	25	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
Dibenz(a,h)anthracene	160		110	22	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
Fluoranthene	910		110	22	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
Fluorene	260		110	22	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
Indeno[1,2,3-cd]pyrene	310		110	39	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
1-Methylnaphthalene	660		220	24	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
2-Methylnaphthalene	920		220	39	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
Naphthalene	650		220	24	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
Phenanthrene	1200		44	21	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
Pyrene	890		110	20	ug/Kg	☼	03/14/13 08:53	03/15/13 19:05	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		30 - 130				03/14/13 08:53	03/15/13 19:05	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0713A-CS-SP

Lab Sample ID: 680-88118-13

Date Collected: 03/06/13 08:57

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
Acenaphthylene	73	J	200	25	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
Anthracene	110		42	21	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
Benzo[a]anthracene	420		40	20	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
Benzo[a]pyrene	230		52	26	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
Benzo[b]fluoranthene	780		62	31	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
Benzo[g,h,i]perylene	200		100	22	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
Benzo[k]fluoranthene	120		40	18	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
Chrysene	360		45	23	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
Dibenz(a,h)anthracene	68	J	100	21	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
Fluoranthene	650		100	20	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
Fluorene	140		100	21	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
Indeno[1,2,3-cd]pyrene	170		100	36	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
1-Methylnaphthalene	35	J	200	22	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
2-Methylnaphthalene	360		200	36	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
Naphthalene	66	J	200	22	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
Phenanthrene	460		40	20	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
Pyrene	610		100	19	ug/Kg	☼	03/14/13 08:53	03/15/13 19:20	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	80		30 - 130				03/14/13 08:53	03/15/13 19:20	4

Client Sample ID: CV0713B-CS-SP

Lab Sample ID: 680-88118-14

Date Collected: 03/06/13 09:11

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
Acenaphthylene	24	J	52	6.5	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
Anthracene	15		11	5.4	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
Benzo[a]anthracene	93		10	5.0	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
Benzo[a]pyrene	59		13	6.7	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
Benzo[b]fluoranthene	190		16	7.9	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
Benzo[g,h,i]perylene	45		26	5.7	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
Benzo[k]fluoranthene	31		10	4.7	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
Chrysene	81		12	5.8	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
Dibenz(a,h)anthracene	19	J	26	5.3	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
Fluoranthene	89		26	5.2	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
Fluorene	26	U	26	5.3	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
Indeno[1,2,3-cd]pyrene	39		26	9.2	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
1-Methylnaphthalene	26	J	52	5.7	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
2-Methylnaphthalene	120		52	9.2	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
Naphthalene	48	J	52	5.7	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
Phenanthrene	60		10	5.0	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
Pyrene	110		26	4.8	ug/Kg	☼	03/14/13 08:53	03/15/13 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		30 - 130				03/14/13 08:53	03/15/13 19:35	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0844A-CS

Lab Sample ID: 680-88118-15

Date Collected: 03/06/13 09:30

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	96	J	130	25	ug/Kg	☼	03/14/13 08:53	03/15/13 19:50	1
Acenaphthylene	40	J	50	6.3	ug/Kg	☼	03/14/13 08:53	03/15/13 19:50	1
Anthracene	390		11	5.3	ug/Kg	☼	03/14/13 08:53	03/15/13 19:50	1
Benzo[a]anthracene	2000		10	4.9	ug/Kg	☼	03/14/13 08:53	03/15/13 19:50	1
Benzo[a]pyrene	1400		13	6.5	ug/Kg	☼	03/14/13 08:53	03/15/13 19:50	1
Benzo[b]fluoranthene	2000		15	7.7	ug/Kg	☼	03/14/13 08:53	03/15/13 19:50	1
Benzo[g,h,i]perylene	900		25	5.5	ug/Kg	☼	03/14/13 08:53	03/15/13 19:50	1
Benzo[k]fluoranthene	740		10	4.5	ug/Kg	☼	03/14/13 08:53	03/15/13 19:50	1
Chrysene	1800		11	5.7	ug/Kg	☼	03/14/13 08:53	03/15/13 19:50	1
Dibenz(a,h)anthracene	360		25	5.2	ug/Kg	☼	03/14/13 08:53	03/15/13 19:50	1
Fluorene	85		25	5.2	ug/Kg	☼	03/14/13 08:53	03/15/13 19:50	1
Indeno[1,2,3-cd]pyrene	900		25	8.9	ug/Kg	☼	03/14/13 08:53	03/15/13 19:50	1
1-Methylnaphthalene	50		50	5.5	ug/Kg	☼	03/14/13 08:53	03/15/13 19:50	1
2-Methylnaphthalene	130		50	8.9	ug/Kg	☼	03/14/13 08:53	03/15/13 19:50	1
Naphthalene	59		50	5.5	ug/Kg	☼	03/14/13 08:53	03/15/13 19:50	1
Phenanthrene	2500		10	4.9	ug/Kg	☼	03/14/13 08:53	03/15/13 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	58		30 - 130				03/14/13 08:53	03/15/13 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	3400		100	20	ug/Kg	☼	03/14/13 08:53	03/19/13 12:30	4
Pyrene	2600		100	19	ug/Kg	☼	03/14/13 08:53	03/19/13 12:30	4

Client Sample ID: CV0844B-CS

Lab Sample ID: 680-88118-16

Date Collected: 03/06/13 09:40

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4
Acenaphthylene	98	J	200	25	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4
Anthracene	89		42	21	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4
Benzo[a]anthracene	770		40	20	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4
Benzo[a]pyrene	720		52	26	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4
Benzo[b]fluoranthene	1500		61	31	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4
Benzo[g,h,i]perylene	690		100	22	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4
Benzo[k]fluoranthene	430		40	18	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4
Chrysene	830		45	23	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4
Dibenz(a,h)anthracene	280		100	21	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4
Fluoranthene	750		100	20	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4
Fluorene	100	U	100	21	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4
Indeno[1,2,3-cd]pyrene	570		100	36	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4
1-Methylnaphthalene	90	J	200	22	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4
2-Methylnaphthalene	360		200	36	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4
Naphthalene	53	J	200	22	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4
Phenanthrene	330		40	20	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4
Pyrene	840		100	19	ug/Kg	☼	03/14/13 08:53	03/15/13 20:05	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0844B-CS

Lab Sample ID: 680-88118-16

Date Collected: 03/06/13 09:40

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 78.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	81		30 - 130	03/14/13 08:53	03/15/13 20:05	4

Client Sample ID: CV0846A-CS

Lab Sample ID: 680-88118-17

Date Collected: 03/06/13 09:05

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	52	J	120	23	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
Acenaphthylene	33	J	47	5.8	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
Anthracene	110		9.8	4.9	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
Benzo[a]anthracene	320		9.4	4.6	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
Benzo[a]pyrene	190		12	6.1	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
Benzo[b]fluoranthene	350		14	7.1	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
Benzo[g,h,i]perylene	150		23	5.1	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
Benzo[k]fluoranthene	180		9.4	4.2	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
Chrysene	340		11	5.3	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
Dibenz(a,h)anthracene	52		23	4.8	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
Fluoranthene	600		23	4.7	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
Fluorene	49		23	4.8	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
Indeno[1,2,3-cd]pyrene	110		23	8.3	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
1-Methylnaphthalene	100		47	5.1	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
2-Methylnaphthalene	180		47	8.3	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
Naphthalene	82		47	5.1	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
Phenanthrene	480		9.4	4.6	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
Pyrene	600		23	4.3	ug/Kg	☼	03/14/13 08:53	03/15/13 20:21	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
<i>o</i> -Terphenyl	79		30 - 130	03/14/13 08:53	03/15/13 20:21	1			

Client Sample ID: CV0945A-CS

Lab Sample ID: 680-88118-18

Date Collected: 03/06/13 10:45

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4
Acenaphthylene	100	J	210	27	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4
Anthracene	84		45	22	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4
Benzo[a]anthracene	380		43	21	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4
Benzo[a]pyrene	180		55	28	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4
Benzo[b]fluoranthene	760		65	32	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4
Benzo[g,h,i]perylene	140		110	23	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4
Benzo[k]fluoranthene	120		43	19	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4
Chrysene	330		48	24	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4
Dibenz(a,h)anthracene	59	J	110	22	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4
Fluoranthene	440		110	21	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4
Fluorene	110	U	110	22	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4
Indeno[1,2,3-cd]pyrene	140		110	38	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4
1-Methylnaphthalene	130	J	210	23	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4
2-Methylnaphthalene	450		210	38	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0945A-CS

Lab Sample ID: 680-88118-18

Date Collected: 03/06/13 10:45

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	140	J	210	23	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4
Phenanthrene	310		43	21	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4
Pyrene	430		110	20	ug/Kg	☼	03/14/13 08:53	03/15/13 20:36	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	65		30 - 130				03/14/13 08:53	03/15/13 20:36	4

Client Sample ID: CV0960A-CS

Lab Sample ID: 680-88118-19

Date Collected: 03/06/13 10:15

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 81.5

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	☼	03/14/13 08:53	03/15/13 20:51	1
Acenaphthylene	24	J	49	6.1	ug/Kg	☼	03/14/13 08:53	03/15/13 20:51	1
Anthracene	33		10	5.2	ug/Kg	☼	03/14/13 08:53	03/15/13 20:51	1
Benzo[a]anthracene	320		9.8	4.8	ug/Kg	☼	03/14/13 08:53	03/15/13 20:51	1
Benzo[a]pyrene	350		13	6.4	ug/Kg	☼	03/14/13 08:53	03/15/13 20:51	1
Benzo[b]fluoranthene	680		15	7.5	ug/Kg	☼	03/14/13 08:53	03/15/13 20:51	1
Benzo[g,h,i]perylene	360		25	5.4	ug/Kg	☼	03/14/13 08:53	03/15/13 20:51	1
Benzo[k]fluoranthene	230		9.8	4.4	ug/Kg	☼	03/14/13 08:53	03/15/13 20:51	1
Chrysene	420		11	5.5	ug/Kg	☼	03/14/13 08:53	03/15/13 20:51	1
Dibenz(a,h)anthracene	140		25	5.0	ug/Kg	☼	03/14/13 08:53	03/15/13 20:51	1
Fluoranthene	350		25	4.9	ug/Kg	☼	03/14/13 08:53	03/15/13 20:51	1
Fluorene	25	U	25	5.0	ug/Kg	☼	03/14/13 08:53	03/15/13 20:51	1
Indeno[1,2,3-cd]pyrene	330		25	8.7	ug/Kg	☼	03/14/13 08:53	03/15/13 20:51	1
1-Methylnaphthalene	76		49	5.4	ug/Kg	☼	03/14/13 08:53	03/15/13 20:51	1
2-Methylnaphthalene	160		49	8.7	ug/Kg	☼	03/14/13 08:53	03/15/13 20:51	1
Naphthalene	110		49	5.4	ug/Kg	☼	03/14/13 08:53	03/15/13 20:51	1
Phenanthrene	180		9.8	4.8	ug/Kg	☼	03/14/13 08:53	03/15/13 20:51	1
Pyrene	370		25	4.5	ug/Kg	☼	03/14/13 08:53	03/15/13 20:51	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	67		30 - 130				03/14/13 08:53	03/15/13 20:51	1

Client Sample ID: FM0116A-CS-SP

Lab Sample ID: 680-88118-20

Date Collected: 03/06/13 10:37

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 69.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	580	U	580	120	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4
Acenaphthylene	170	J	230	29	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4
Anthracene	180		49	24	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4
Benzo[a]anthracene	770		46	23	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4
Benzo[a]pyrene	550		60	30	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4
Benzo[b]fluoranthene	1200		71	35	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4
Benzo[g,h,i]perylene	400		120	25	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4
Benzo[k]fluoranthene	450		46	21	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4
Chrysene	800		52	26	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

Client Sample ID: FM0116A-CS-SP

Lab Sample ID: 680-88118-20

Date Collected: 03/06/13 10:37

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 69.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	120		120	24	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4
Fluoranthene	1300		120	23	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4
Fluorene	120	U	120	24	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4
Indeno[1,2,3-cd]pyrene	350		120	41	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4
1-Methylnaphthalene	170	J	230	25	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4
2-Methylnaphthalene	610		230	41	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4
Naphthalene	230		230	25	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4
Phenanthrene	680		46	23	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4
Pyrene	1100		120	21	ug/Kg	☼	03/14/13 08:53	03/15/13 21:06	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	88		30 - 130				03/14/13 08:53	03/15/13 21:06	4

QC Sample Results

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

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

Lab Sample ID: MB 660-135376/1-A

Matrix: Solid

Analysis Batch: 135466

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 135376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		03/14/13 08:53	03/15/13 15:17	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/14/13 08:53	03/15/13 15:17	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		03/14/13 08:53	03/15/13 15:17	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		03/14/13 08:53	03/15/13 15:17	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/14/13 08:53	03/15/13 15:17	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/14/13 08:53	03/15/13 15:17	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/14/13 08:53	03/15/13 15:17	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		03/14/13 08:53	03/15/13 15:17	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		03/14/13 08:53	03/15/13 15:17	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		03/14/13 08:53	03/15/13 15:17	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/14/13 08:53	03/15/13 15:17	1
Fluorene	20	U	20	4.1	ug/Kg		03/14/13 08:53	03/15/13 15:17	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		03/14/13 08:53	03/15/13 15:17	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/14/13 08:53	03/15/13 15:17	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		03/14/13 08:53	03/15/13 15:17	1
Naphthalene	40	U	40	4.4	ug/Kg		03/14/13 08:53	03/15/13 15:17	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		03/14/13 08:53	03/15/13 15:17	1
Pyrene	20	U	20	3.7	ug/Kg		03/14/13 08:53	03/15/13 15:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	83		30 - 130	03/14/13 08:53	03/15/13 15:17	1

Lab Sample ID: LCS 660-135376/2-A

Matrix: Solid

Analysis Batch: 135466

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	649	503		ug/Kg		78	39 - 130
Acenaphthylene	649	497		ug/Kg		77	38 - 130
Anthracene	649	550		ug/Kg		85	37 - 130
Benzo[a]anthracene	649	593		ug/Kg		91	40 - 130
Benzo[a]pyrene	649	518		ug/Kg		80	49 - 130
Benzo[b]fluoranthene	649	572		ug/Kg		88	37 - 130
Benzo[g,h,i]perylene	649	547		ug/Kg		84	32 - 130
Benzo[k]fluoranthene	649	549		ug/Kg		85	32 - 130
Chrysene	649	557		ug/Kg		86	41 - 130
Dibenz(a,h)anthracene	649	561		ug/Kg		86	27 - 130
Fluoranthene	649	590		ug/Kg		91	40 - 130
Fluorene	649	529		ug/Kg		82	40 - 130
Indeno[1,2,3-cd]pyrene	649	567		ug/Kg		87	30 - 130
1-Methylnaphthalene	649	579		ug/Kg		89	31 - 130
2-Methylnaphthalene	649	497		ug/Kg		77	33 - 130
Naphthalene	649	512		ug/Kg		79	36 - 130
Phenanthrene	649	536		ug/Kg		83	42 - 130
Pyrene	649	520		ug/Kg		80	44 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

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

Lab Sample ID: LCS 660-135376/2-A
Matrix: Solid
Analysis Batch: 135466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135376

Surrogate	LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	90		30 - 130

Lab Sample ID: 680-88118-11 MS
Matrix: Solid
Analysis Batch: 135466

Client Sample ID: CV0684B-CS-SP
Prep Type: Total/NA
Prep Batch: 135376

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Acenaphthene	120	U	825	477		ug/Kg	☼	58		39 - 130
Acenaphthylene	34	J	825	449		ug/Kg	☼	50		38 - 130
Anthracene	33		825	497		ug/Kg	☼	56		37 - 130
Benzo[a]anthracene	200		825	656		ug/Kg	☼	55		40 - 130
Benzo[a]pyrene	120	F	825	434	F	ug/Kg	☼	38		49 - 130
Benzo[b]fluoranthene	280		825	632		ug/Kg	☼	43		37 - 130
Benzo[g,h,i]perylene	120		825	483		ug/Kg	☼	44		32 - 130
Benzo[k]fluoranthene	58		825	397		ug/Kg	☼	41		32 - 130
Chrysene	180		825	568		ug/Kg	☼	47		41 - 130
Dibenz(a,h)anthracene	52		825	510		ug/Kg	☼	56		27 - 130
Fluoranthene	170		825	600		ug/Kg	☼	53		40 - 130
Fluorene	25	U	825	534		ug/Kg	☼	65		40 - 130
Indeno[1,2,3-cd]pyrene	110		825	478		ug/Kg	☼	45		30 - 130
1-Methylnaphthalene	78		825	651		ug/Kg	☼	69		31 - 130
2-Methylnaphthalene	150		825	565		ug/Kg	☼	50		33 - 130
Naphthalene	96		825	466		ug/Kg	☼	45		36 - 130
Phenanthrene	180		825	732		ug/Kg	☼	67		42 - 130
Pyrene	170		825	687		ug/Kg	☼	63		44 - 130

Surrogate	MS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	60		30 - 130

Lab Sample ID: 680-88118-11 MSD
Matrix: Solid
Analysis Batch: 135466

Client Sample ID: CV0684B-CS-SP
Prep Type: Total/NA
Prep Batch: 135376

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
Acenaphthene	120	U	825	475		ug/Kg	☼	58		39 - 130	1	40
Acenaphthylene	34	J	825	437		ug/Kg	☼	49		38 - 130	3	40
Anthracene	33		825	558		ug/Kg	☼	64		37 - 130	12	40
Benzo[a]anthracene	200		825	711		ug/Kg	☼	62		40 - 130	8	40
Benzo[a]pyrene	120	F	825	477	F	ug/Kg	☼	43		49 - 130	9	40
Benzo[b]fluoranthene	280		825	645		ug/Kg	☼	44		37 - 130	2	40
Benzo[g,h,i]perylene	120		825	527		ug/Kg	☼	49		32 - 130	9	40
Benzo[k]fluoranthene	58		825	482		ug/Kg	☼	51		32 - 130	19	40
Chrysene	180		825	648		ug/Kg	☼	57		41 - 130	13	40
Dibenz(a,h)anthracene	52		825	569		ug/Kg	☼	63		27 - 130	11	40
Fluoranthene	170		825	675		ug/Kg	☼	62		40 - 130	12	40
Fluorene	25	U	825	516		ug/Kg	☼	63		40 - 130	3	40
Indeno[1,2,3-cd]pyrene	110		825	568		ug/Kg	☼	56		30 - 130	17	40
1-Methylnaphthalene	78		825	760		ug/Kg	☼	83		31 - 130	15	40

TestAmerica Savannah

QC Association Summary

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

GC/MS Semi VOA

Prep Batch: 135376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88118-1	CV0144A-CS-SP	Total/NA	Solid	3546	
680-88118-2	CV0144B-CS-SP	Total/NA	Solid	3546	
680-88118-3	CV0193A-CS-SP	Total/NA	Solid	3546	
680-88118-4	CV0628A-CS-SP	Total/NA	Solid	3546	
680-88118-5	CV0628B-CS-SP	Total/NA	Solid	3546	
680-88118-6	CV0628C-CS-SP	Total/NA	Solid	3546	
680-88118-7	CV0683A-CS-SP	Total/NA	Solid	3546	
680-88118-8	CV0683B-CS-SP	Total/NA	Solid	3546	
680-88118-9	CV0683C-GS-SP	Total/NA	Solid	3546	
680-88118-10	CV0684A-CS-SP	Total/NA	Solid	3546	
680-88118-11	CV0684B-CS-SP	Total/NA	Solid	3546	
680-88118-11 MS	CV0684B-CS-SP	Total/NA	Solid	3546	
680-88118-11 MSD	CV0684B-CS-SP	Total/NA	Solid	3546	
680-88118-12	CV0684C-GS-SP	Total/NA	Solid	3546	
680-88118-13	CV0713A-CS-SP	Total/NA	Solid	3546	
680-88118-14	CV0713B-CS-SP	Total/NA	Solid	3546	
680-88118-15	CV0844A-CS	Total/NA	Solid	3546	
680-88118-15 - DL	CV0844A-CS	Total/NA	Solid	3546	
680-88118-16	CV0844B-CS	Total/NA	Solid	3546	
680-88118-17	CV0846A-CS	Total/NA	Solid	3546	
680-88118-18	CV0945A-CS	Total/NA	Solid	3546	
680-88118-19	CV0960A-CS	Total/NA	Solid	3546	
680-88118-20	FM0116A-CS-SP	Total/NA	Solid	3546	
LCS 660-135376/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135376/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 135466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88118-1	CV0144A-CS-SP	Total/NA	Solid	8270C LL	135376
680-88118-2	CV0144B-CS-SP	Total/NA	Solid	8270C LL	135376
680-88118-3	CV0193A-CS-SP	Total/NA	Solid	8270C LL	135376
680-88118-4	CV0628A-CS-SP	Total/NA	Solid	8270C LL	135376
680-88118-5	CV0628B-CS-SP	Total/NA	Solid	8270C LL	135376
680-88118-6	CV0628C-CS-SP	Total/NA	Solid	8270C LL	135376
680-88118-7	CV0683A-CS-SP	Total/NA	Solid	8270C LL	135376
680-88118-8	CV0683B-CS-SP	Total/NA	Solid	8270C LL	135376
680-88118-9	CV0683C-GS-SP	Total/NA	Solid	8270C LL	135376
680-88118-10	CV0684A-CS-SP	Total/NA	Solid	8270C LL	135376
680-88118-11	CV0684B-CS-SP	Total/NA	Solid	8270C LL	135376
680-88118-11 MS	CV0684B-CS-SP	Total/NA	Solid	8270C LL	135376
680-88118-11 MSD	CV0684B-CS-SP	Total/NA	Solid	8270C LL	135376
680-88118-12	CV0684C-GS-SP	Total/NA	Solid	8270C LL	135376
680-88118-13	CV0713A-CS-SP	Total/NA	Solid	8270C LL	135376
680-88118-14	CV0713B-CS-SP	Total/NA	Solid	8270C LL	135376
680-88118-15	CV0844A-CS	Total/NA	Solid	8270C LL	135376
680-88118-16	CV0844B-CS	Total/NA	Solid	8270C LL	135376
680-88118-17	CV0846A-CS	Total/NA	Solid	8270C LL	135376
680-88118-18	CV0945A-CS	Total/NA	Solid	8270C LL	135376
680-88118-19	CV0960A-CS	Total/NA	Solid	8270C LL	135376
680-88118-20	FM0116A-CS-SP	Total/NA	Solid	8270C LL	135376
LCS 660-135376/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135376

TestAmerica Savannah

QC Association Summary

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

TestAmerica Job ID: 680-88118-1
SDG: 68088118-1

GC/MS Semi VOA (Continued)

Analysis Batch: 135466 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-135376/1-A	Method Blank	Total/NA	Solid	8270C LL	135376

Analysis Batch: 135536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88118-15 - DL	CV0844A-CS	Total/NA	Solid	8270C LL	135376

General Chemistry

Analysis Batch: 135258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88118-1	CV0144A-CS-SP	Total/NA	Solid	Moisture	
680-88118-2	CV0144B-CS-SP	Total/NA	Solid	Moisture	
680-88118-3	CV0193A-CS-SP	Total/NA	Solid	Moisture	
680-88118-4	CV0628A-CS-SP	Total/NA	Solid	Moisture	
680-88118-5	CV0628B-CS-SP	Total/NA	Solid	Moisture	
680-88118-6	CV0628C-CS-SP	Total/NA	Solid	Moisture	
680-88118-7	CV0683A-CS-SP	Total/NA	Solid	Moisture	
680-88118-8	CV0683B-CS-SP	Total/NA	Solid	Moisture	
680-88118-9	CV0683C-GS-SP	Total/NA	Solid	Moisture	
680-88118-10	CV0684A-CS-SP	Total/NA	Solid	Moisture	
680-88118-11	CV0684B-CS-SP	Total/NA	Solid	Moisture	
680-88118-11 MS	CV0684B-CS-SP	Total/NA	Solid	Moisture	
680-88118-11 MSD	CV0684B-CS-SP	Total/NA	Solid	Moisture	
680-88118-12	CV0684C-GS-SP	Total/NA	Solid	Moisture	
680-88118-13	CV0713A-CS-SP	Total/NA	Solid	Moisture	
680-88118-14	CV0713B-CS-SP	Total/NA	Solid	Moisture	
680-88118-15	CV0844A-CS	Total/NA	Solid	Moisture	
680-88118-16	CV0844B-CS	Total/NA	Solid	Moisture	
680-88118-17	CV0846A-CS	Total/NA	Solid	Moisture	
680-88118-18	CV0945A-CS	Total/NA	Solid	Moisture	
680-88118-19	CV0960A-CS	Total/NA	Solid	Moisture	
680-88118-20	FM0116A-CS-SP	Total/NA	Solid	Moisture	
MB 660-135258/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0144A-CS-SP

Lab Sample ID: 680-88118-1

Date Collected: 03/06/13 09:32

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135466	03/15/13 15:47	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0144B-CS-SP

Lab Sample ID: 680-88118-2

Date Collected: 03/06/13 09:52

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135466	03/15/13 16:02	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0193A-CS-SP

Lab Sample ID: 680-88118-3

Date Collected: 03/06/13 13:38

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135466	03/15/13 16:17	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0628A-CS-SP

Lab Sample ID: 680-88118-4

Date Collected: 03/06/13 08:25

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 69.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135466	03/15/13 16:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0628B-CS-SP

Lab Sample ID: 680-88118-5

Date Collected: 03/06/13 08:30

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 72.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135466	03/15/13 16:48	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0628C-CS-SP

Lab Sample ID: 680-88118-6

Date Collected: 03/06/13 08:35

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 73.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135466	03/15/13 17:03	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0683A-CS-SP

Lab Sample ID: 680-88118-7

Date Collected: 03/06/13 12:11

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 72.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135466	03/15/13 17:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0683B-CS-SP

Lab Sample ID: 680-88118-8

Date Collected: 03/06/13 12:20

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135466	03/15/13 17:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0683C-GS-SP

Lab Sample ID: 680-88118-9

Date Collected: 03/06/13 12:27

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135466	03/15/13 17:49	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0684A-CS-SP

Lab Sample ID: 680-88118-10

Date Collected: 03/06/13 12:38

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135466	03/15/13 18:04	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0684B-CS-SP

Lab Sample ID: 680-88118-11

Date Collected: 03/06/13 12:50

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135466	03/15/13 18:19	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0684C-GS-SP

Lab Sample ID: 680-88118-12

Date Collected: 03/06/13 13:01

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 72.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135466	03/15/13 19:05	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0713A-CS-SP

Lab Sample ID: 680-88118-13

Date Collected: 03/06/13 08:57

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135466	03/15/13 19:20	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0713B-CS-SP

Lab Sample ID: 680-88118-14

Date Collected: 03/06/13 09:11

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135466	03/15/13 19:35	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0844A-CS

Lab Sample ID: 680-88118-15

Date Collected: 03/06/13 09:30

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135466	03/15/13 19:50	SCC	TAL TAM
Total/NA	Prep	3546	DL		135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL	DL	4	135536	03/19/13 12:30	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

TestAmerica Savannah

Lab Chronicle

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

Client Sample ID: CV0844B-CS

Lab Sample ID: 680-88118-16

Date Collected: 03/06/13 09:40

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135466	03/15/13 20:05	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0846A-CS

Lab Sample ID: 680-88118-17

Date Collected: 03/06/13 09:05

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135466	03/15/13 20:21	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0945A-CS

Lab Sample ID: 680-88118-18

Date Collected: 03/06/13 10:45

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135466	03/15/13 20:36	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0960A-CS

Lab Sample ID: 680-88118-19

Date Collected: 03/06/13 10:15

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135466	03/15/13 20:51	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: FM0116A-CS-SP

Lab Sample ID: 680-88118-20

Date Collected: 03/06/13 10:37

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 69.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135376	03/14/13 08:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135466	03/15/13 21:06	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

TestAmerica Savannah

Serial Number 59587

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE 35th Avenue Removal	PROJECT NO.	PROJECT LOCATION (STATE) AZ	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 1 OF 9
TAL (LAB) PROJECT MANAGER Lisa Harvey	P.O. NUMBER 2005148-1356	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...) LLPAA PCRA 2	STANDARD REPORT DELIVERY DATE DUE _____ EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE _____	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
		CLIENT FAX			

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS			
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12	
3/16/13	0932	CV0144A-CS-SP	C	✓			X														
	0952	CV0144B-CS-SP	C	✓			X														
	1338	CV0193A-CS-SP	C	✓			X														
	0825	CV0628A-CS-SP	C	✓			X														
	0830	CV0628B-CS-SP	C	✓			X														
	0835	CV0628C-CS-SP	C	✓			X														
	1211	CV0683A-CS-SP	C	✓			X														
	1220	CV0683B-CS-SP	C	✓			X														
	1227	CV0683C-GS-SP	G	✓			X														
	1238	CV0684A-CS-SP	C	✓			X														
	1250	CV0684B-CS-SP	C	✓			X	X													
	1301	CV0684C-GS-SP	G	✓			X														

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3/11/13	TIME 1800	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 03/08/13	TIME 0921	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680 88118	LABORATORY REMARKS 2-8
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(b) (6)
(b) (6)
(b) (6)

Page 26 of 32

3/20/2013



Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-1

SDG Number: 68088118-1

Login Number: 88118

List Number: 1

Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-1

SDG Number: 68088118-1

Login Number: 88118

List Number: 1

Creator: Edwards, Erricka

List Source: TestAmerica Tampa

List Creation: 03/09/13 12:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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: 680-88118-1

SDG Number: 68088118-1

Login Number: 88118

List Number: 2

Creator: McNulty, Carol

List Source: TestAmerica Tampa

List Creation: 03/12/13 08:49 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Certification Summary

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

TestAmerica Job ID: 680-88118-1
 SDG: 68088118-1

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	03-31-13
A2LA	ISO/IEC 17025		399.01	03-31-13
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
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
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	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

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Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13

TestAmerica Savannah

Certification Summary

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

TestAmerica Job ID: 680-88118-1
SDG: 68088118-1

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
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14

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