Data Validation Checklist
Inorganic Analyses

Project:	35TH Avenue Superfund Site	Project No:	60430028; 1
Laboratory:	TestAmerica – Savannah, GA	Job ID.:	680-107159-1
Method:	SW-846 6010C[1]	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Date(s) Collected:	11/07/2014
Reviewer:	Teresa Amentt Jennings, URS Group, Inc.	Date:	08/24/2015
Concurrence[2]:	Martha Meyers-Lee, URS Group, Inc.	Date:	08/31/2015

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample preservation requirements met? If pH of aqueous sample >2 and was not adjusted by laboratory prior to analysis, J- flag positive results and R- flag non-detect 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/sediment samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Have any technical holding times, determined from date of collection to date of analysis, been exceeded? (Hg: ≤28 days, other metals: ≤6 months; Cr+6: ≤24 hours from extraction). If not, then J- flag positive results and R- flag non-detect aqueous results.		✓			
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?		✓		Resident Soil RSL with THQ = 1.0 (ORNL, June 2015) for target analytes: • Aluminum: 77000 mg/kg • Arsenic: 0.68 mg/Kg • Iron: 55000 mg/kg • Lead: 400 mg/Kg The MDL for each target analyte was less than the respective above-mentioned RSL in undiluted samples, except arsenic in samples 680-107159-3 (FM0281A-CS18"), 680-107159-6 (FM0281D-CS6"), 680-107159-9 (FM0281D-CS24"), and 680-107159-17 (FM0281G-CS12"). A data gap does not exist, as arsenic was detected in the above-mentioned samples.	
8. Were method blank (MB) prepared at the appropriate frequency (one per 20 samples, batch, matrix, and level)?	✓				

[1]Aluminum, arsenic, iron, and lead
[2] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
9. Was a calibration blank (ICB/CCB) analyzed at the beginning, after every 10th sample, and at the end of each analytical run?	✓				
10. Were target analytes detected in the method and/or calibration blanks?		✓		Target analytes were not detected in the method blanks. Calibration blanks were not evaluated.	
11. Were target analytes reported in equipment/rinsate blanks analyses above the DL?			✓	According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once a week, per the client. A rinsate blank is not associated with this sampling event. Blank contamination will be evaluated based on method blank results.	
12. Were contaminants detected in samples below the blank contamination action level? o If blank result > RL, • Flag sample results ≤ RL with a U • Flag positive sample results > RL and ≤10x blank result , as J+ positive results o If blank result ≤RL, • Flag sample results ≤ RL with a U • Flag positive sample results > RL and ≤10x blank result , as J+ positive results			✓	Target analytes were not detected during the analysis of the method blank. An evaluation of the effect of blank contamination on soil sample results was based on method blank results, and not calibration blank results.	
13. Are there negative laboratory blank results with the absolute value ≤RL? If yes, then flag positive and non-detect sample results that are < 10x absolute blank value as J- and UJ, respectively.		✓			
14. Was a field duplicate analyzed?	✓			• FM0281A-CSD6" (680-107159-5) is a field duplicate of FM0281A-CS6" (680-107159-1) • FM0281G-CSD12" (680-107159-17) is a field duplicate of FM0281G-CS12" (680-107159-14)	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to **Attachment B** (Field Duplicate Evaluation)	
16. Were initial and continuing calibration standards analyzed at the lab/project-specified frequency for each instrument? o 6010C: • ICAL: Blank and one standard • ICV initially, and CCV every 10th sample and at the end of the analytical run • Lower Limit of Quantitation Check Sample (CRI) to be analyzed after establishing lower laboratory reporting limits and as needed	✓			6010C: 11/14/2014 and 11/15/2014. One blank and one standard initially. ICV initially, and CCV every 10 samples and at end of run. CRI after initial calibration blank analysis.	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
17. Were these results within lab/project specifications? o 6010C • ICV/CCV (Criteria: 90-110%R): ▪ If %R <75, then J- flag positive results and R-flag non-detects ▪ If 75-89%R, then J- flag positive results and UJ flag non-detects ▪ If 111-125%R, then J flag positive results ▪ If >125%R, then J+ flag positive results ▪ If >160%R, then R flag positive results • CRI (Method: 70-130%R, Laboratory: 50-150%R; Project: 50-150%R for Sb, Pb, and Tl, and 70-130%R for all other analytes): ▪ If CRI %R <50 (<30% for Sb, Pb, TL), then R flag results ≤ 2x RL and J flag positive results >2x RL ▪ If CRI %R 50-69% (30-49% for Sb, Pb, TL), then J- and UJ flag positive results <2x RL and ND, respectively ▪ If CRI %R >130% and ≤180% (>150%, but ≤200% for Sb, Pb, TL), then J+ flag positive results <2x RL ▪ If CRI %R >180% (>200% for Sb, Pb, TL), then R flag positive results	✓				
18. Was the interference check sample (ICS) analyzed at the beginning of each ICP analytical run?	✓				
19. Are ICS recoveries within 80-120% of the true value? If not, qualify data as follows when native Al, Fe, Ca, and Mg sample concentrations are equal to or greater than the ICS spiking level: o If >120%R (or >true value plus 2x CRQL), J+ flag positive results o If 50-79%R (or less than true value – 2x the CRQL), J- flag positive results and UJ flag non-detects o If <50%R, J- flag positive results and R-flag non-detects	✓				
20. Was a LCS analyzed for each preparation batch (one per 20 samples per matrix and level)?	✓				
21. Did LCS recoveries meet method/laboratory/project (80-120%R) specifications? o Soil: • LCS result > Upper control limit (UCL): J+ flag positive results • LCS result < Lower control limit (LCL): J- flag positive results and UJ flag non-detects	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
22. Was the RPD between LCS and LCSD results within method/laboratory /project control limits (≤20%RPD)? If not, J and UJ flag positive and non-detect results, respectively			✓	LCS only	
23. Was a Matrix Spike (MS) and Matrix Spike Duplicate (MSD) analyzed once per preparation batch?	✓				
24. Is the MS and MSD parent sample a project-specific sample?	✓			Batch 358466: 680-107159-12 (FM0281C-CS18"), MS/MSD/ PDS.	
25. Was a post-digestion spike (PDS) analysis conducted when MS and/or MSD results did not meet control limits (Note: PDS is not required for silver, mercury, or hexavalent chromium)?	✓				
26. For all analytes with native sample concentrations < 4 x spike concentration, are spike recoveries within method (6010C: 75-125%R MS/MSD and 80-120%R PDS; 7471A: 80-120%R MS/MSD; 7196A: 85-115%R MS), laboratory (MS, MSD, and PDS: 75-125%R for 6010C/7471 (as applicable) and 80-120%R for 7196), and project (as noted below) specifications? *Only QC results for project samples are evaluated.* If not, o 6010C: • If MS %R <30 and PDS %R <75, then J- and R Flag positive and ND results, respectively • If MS %R <30 and PDS %R >75, then J flag positive and UJ flag non-detect results • If MS and MSD %R 30-74 and PDS%R <75, then J- flag positive and UJ flag non-detect results • If MS and MSD %R 30-74 and PDS%R ≥75, then J flag positive and UJ flag non-detect results • If MS, MSD, and PDS %R >125, J+ flag positive results • If MS and MSD %R >125 and PDS %R ≤125, then J flag positive results • If MS and MSD %R <30 and no PDS, then J- flag positive and R-flag non-detect results • If MS and MSD %R 30-74 and no PDS, then J- and UJ flag positive and non-detect results, respectively • If MS and MSD %R >125 and no PDS, then J+ flag positive results		✓		FM0281C-CS18" (680-107159-12), 6010C: Arsenic MS and MSD %R @ 84 and 154 (75-125%). PDS @ 103%R (80-120%R). Qualification of data is not required[3].	
27. For all analytes with native sample concentrations < 4 x spike concentration, were laboratory/project (≤20%RPD) criteria met for precision during the MS and MSD analysis? *Only QC results for project samples are evaluated.* o If RPD >20%, J and UJ flag positive and non-detect results.		✓		FM0281C-CS18" (680-107159-12), 6010C: Arsenic @ 31%RPD (≤20%RPD). J-Flag positive result.	J
28. Was a serial dilution conducted for 6010C/EPA 200.7?	✓				

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

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
29. Is the serial dilution parent sample a project-specific sample?	✓			680-107159-12 SD (FM0281C-CS18")	
30. Is the percent difference between the serially diluted result and undiluted result less 10% (for those analytes with native concentrations greater than 50x the DL)? *Only QC results for project samples are evaluated.* o If %D >10, J and UJ flag positive and non-detect results, respectively.		✓		FM0281C-CS18" (680-107159-12), 6010C: • Iron @ 11%R (≤10%R). J-Flag • Lead @ 11%R (≤10%R). J-Flag	J
31. Was a laboratory duplicate analyzed?		✓			
32. Was the lab duplicate analysis conducted on a project-specific sample?			✓		
33. Were criteria for laboratory/project precision met? *Only QC results for project samples are evaluated.* o If RPD values >20% (35% for soil/sediment) or absolute difference > RL (2x RL for soil/sediment), then J and UJ flag positive and non-detect results, respectively			✓		
34. Were lab comments included in report? If yes, summarize contents or attach a copy of the narrative.	✓			Refer to **Attachment C** (Case Narrative)	

Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Inorganic Data Review* (EPA 540-R-04-004, October 2004). Sample results have been qualified based on the results of the data review process (**Attachment D**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.

DV Flag Definitions:

J- The result is an estimated quantity, but the result may be biased low.
J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+ The result is an estimated quantity, but the result may be biased high.
R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. 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 analyzed for, but was not detected. The reported limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A

SAMPLE SUMMARY

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107159-1
Sdg Number: 680-107159-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-107159-1	FM0281A-CS6"	Solid	11/07/2014 0831	11/12/2014 0934
680-107159-2	FM0281A-CS12"	Solid	11/07/2014 0841	11/12/2014 0934
680-107159-3	FM0281A-CS18"	Solid	11/07/2014 0851	11/12/2014 0934
680-107159-4	FM0281A-CS24"	Solid	11/07/2014 0901	11/12/2014 0934
680-107159-5	FM0281A-CSD6"	Solid	11/07/2014 0836	11/12/2014 0934
680-107159-6	FM0281D-CS6"	Solid	11/07/2014 0930	11/12/2014 0934
680-107159-7	FM0281D-CS12"	Solid	11/07/2014 0941	11/12/2014 0934
680-107159-8	FM0281D-CS18"	Solid	11/07/2014 0950	11/12/2014 0934
680-107159-9	FM0281D-CS24"	Solid	11/07/2014 0959	11/12/2014 0934
680-107159-10	FM0281C-CS6"	Solid	11/07/2014 1030	11/12/2014 0934
680-107159-11	FM0281C-CS12"	Solid	11/07/2014 1040	11/12/2014 0934
680-107159-12	FM0281C-CS18"	Solid	11/07/2014 1050	11/12/2014 0934
680-107159-12MS	FM0281C-CS18"	Solid	11/07/2014 1050	11/12/2014 0934
680-107159-12MSD	FM0281C-CS18"	Solid	11/07/2014 1050	11/12/2014 0934
680-107159-13	FM0281G-CS6"	Solid	11/07/2014 1125	11/12/2014 0934
680-107159-14	FM0281G-CS12"	Solid	11/07/2014 1135	11/12/2014 0934
680-107159-15	FM0281G-CS18"	Solid	11/07/2014 1145	11/12/2014 0934
680-107159-16	FM0281G-CS24"	Solid	11/07/2014 1155	11/12/2014 0934
680-107159-17	FM0281G-CSD12"	Solid	11/07/2014 1140	11/12/2014 0934

ATTACHMENT B

FIELD DUPLICATE EVAULATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	FM0281A-CS6" 680-107159-1	RL	FM0281A-CSD6" 680-107159-5	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Aluminum	12000	21	12000	21	mg/kg	105	0	NA	NA	None, RPD ≤ 50%
Arsenic	31	2.1	38	2.1	mg/kg	10.5	20	NA	NA	None, RPD ≤ 50%
Iron	47000	21	39000	21	mg/kg	105	19	NA	NA	None, RPD ≤ 50%
Lead	130	1.0	240	1.1	mg/kg	5.3	**59**	NA	NA	**J/UJ-flag, RPD > 50%**

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

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

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

Evaluation of Field Duplicate Results **Attachment B**

Analyte	FM0281G-CS12" 680-107159-14	RL	FM0281G-CSD12" 680-107159-17	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Aluminum	13000	22	12000	23	mg/kg	113	8	NA	NA	None, RPD ≤ 50%
Arsenic	14	2.2	13	2.3	mg/kg	11.3	7	NA	NA	None, RPD ≤ 50%
Iron	23000	22	21000	23	mg/kg	113	9	NA	NA	None, RPD ≤ 50%
Lead	120	1.1	110	1.2	mg/kg	5.8	9	NA	NA	None, RPD ≤ 50%

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

mg/kg - milligrams per kilogram
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference

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

ATTACHMENT C

CASE NARRATIVE

CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-107159-1

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 the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 11/12/2014 9:34 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH

Samples FM0281A-CS6" (680-107159-1), FM0281A-CS12" (680-107159-2), FM0281A-CS18" (680-107159-3), FM0281A-CS24" (680-107159-4), FM0281A-CSD6" (680-107159-5), FM0281D-CS6" (680-107159-6), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281D-CS24" (680-107159-9), FM0281C-CS6" (680-107159-10), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281G-CS6" (680-107159-13), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS24" (680-107159-16) and FM0281G-CSD12" (680-107159-17) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D. The samples were prepared on 11/12/2014 and analyzed on 11/18/2014, 11/19/2014 and 11/20/2014.

Method(s) 8270D_LL_PAH: The following sample(s) was diluted due to the nature of the sample matrix : FM0281A-CS18" (680-107159-3), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281C-CS18" (680-107159-12 MS), FM0281C-CS18" (680-107159-12 MSD), FM0281C-CS6" (680-107159-10), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS6" (680-107159-13), FM0281G-CSD12" (680-107159-17), FM0281A-CS12" (680-107159-2), FM0281A-CS6" (680-107159-1), FM0281D-CS6" (680-107159-6). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D_LL_PAH: The following sample(s) was diluted due to the nature of the sample matrix and abundance of target analytes: FM0281A-CSD6" (680-107159-5). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D_LL_PAH: Manual integration was performed on the following sample(s): FM0281A-CS18" (680-107159-3), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281C-CS6" (680-107159-10), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281D-CS24" (680-107159-9), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS24" (680-107159-16), FM0281G-CS6" (680-107159-13), FM0281G-CSD12" (680-107159-17), FM0281A-CS12" (680-107159-2), FM0281A-CS6" (680-107159-1), FM0281D-CS6" (680-107159-6), FM0281A-CSD6" (680-107159-5).

Indeno[1,2,3-cd]pyrene recovery is outside criteria low for the MSD of sample FM0281C-CS18" (680-107159-12) in batch 680-359245.

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

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICP)

Samples FM0281A-CS6" (680-107159-1), FM0281A-CS12" (680-107159-2), FM0281A-CS18" (680-107159-3), FM0281A-CS24" (680-107159-4), FM0281A-CSD6" (680-107159-5), FM0281D-CS6" (680-107159-6), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281D-CS24" (680-107159-9), FM0281C-CS6" (680-107159-10), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281G-CS6" (680-107159-13), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS24" (680-107159-16) and FM0281G-CSD12" (680-107159-17) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 11/13/2014 and analyzed on 11/14/2014.

Iron recovery is outside criteria low for the MS of sample FM0281C-CS18" (680-107159-12) in batch 680-359069. Aluminum recovery is outside criteria high.

Aluminum, Arsenic and Iron have recovery outside criteria high for the MSD of sample FM0281C-CS18" (680-107159-12) in batch 680-359069. Arsenic and Iron exceeded the RPD limit.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS/MOISTURE

Samples FM0281A-CS6" (680-107159-1), FM0281A-CS12" (680-107159-2), FM0281A-CS18" (680-107159-3), FM0281A-CS24" (680-107159-4), FM0281A-CSD6" (680-107159-5), FM0281D-CS6" (680-107159-6), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281D-CS24" (680-107159-9), FM0281C-CS6" (680-107159-10), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281G-CS6" (680-107159-13), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS24" (680-107159-16) and FM0281G-CSD12" (680-107159-17) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 11/12/2014.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281A-CS6"

Lab Sample ID: 680-107159-1

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 08:31

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 88.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Meth
7429-90-5	Aluminum	12000	21	10	mg/Kg			1	6010C
7440-38-2	Arsenic	31	2.1	0.61	mg/Kg			1	6010C
7439-89-6	Iron	47000	21	7.3	mg/Kg			1	6010C
7439-92-1	Lead	130	1.0	0.55	mg/Kg		J	1	6010C

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)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281A-CS12"

Lab Sample ID: 680-107159-2

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 08:41

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 86.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	12000	21	11	mg/Kg			1	6010C
7440-38-2	Arsenic	29	2.1	0.63	mg/Kg			1	6010C
7439-89-6	Iron	35000	21	7.5	mg/Kg			1	6010C
7439-92-1	Lead	64	1.1	0.57	mg/Kg			1	6010C

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)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281A-CS18"

Lab Sample ID: 680-107159-3

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 08:51

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 72.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	11000	24	12	mg/Kg			1	6010C
7440-38-2	Arsenic	16	2.4	0.71	mg/Kg			1	6010C
7439-89-6	Iron	30000	24	8.4	mg/Kg			1	6010C
7439-92-1	Lead	38	1.2	0.63	mg/Kg			1	6010C

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)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281A-CS24"

Lab Sample ID: 680-107159-4

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 09:01

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 84.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Meth
7429-90-5	Aluminum	13000	23	11	mg/Kg			1	6010C
7440-38-2	Arsenic	23	2.3	0.67	mg/Kg			1	6010C
7439-89-6	Iron	59000	23	8.0	mg/Kg			1	6010C
7439-92-1	Lead	11	1.1	0.61	mg/Kg			1	6010C

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)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281A-CSD6"

Lab Sample ID: 680-107159-5

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 08:36

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 85.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	12000	21	11	mg/Kg			1	6010C
7440-38-2	Arsenic	38	2.1	0.63	mg/Kg			1	6010C
7439-89-6	Iron	39000	21	7.5	mg/Kg			1	6010C
7439-92-1	Lead	240	1.1	0.57	mg/Kg		J	1	6010C

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)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281D-CS6"

Lab Sample ID: 680-107159-6

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 09:30

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 83.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Meth
7429-90-5	Aluminum	13000	23	12	mg/Kg			1	6010C
7440-38-2	Arsenic	29	2.3	0.69	mg/Kg			1	6010C
7439-89-6	Iron	39000	23	8.1	mg/Kg			1	6010C
7439-92-1	Lead	99	1.2	0.62	mg/Kg			1	6010C

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)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281D-CS12"

Lab Sample ID: 680-107159-7

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 09:41

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 86.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	12000	23	12	mg/Kg			1	6010C
7440-38-2	Arsenic	21	2.3	0.68	mg/Kg			1	6010C
7439-89-6	Iron	38000	23	8.1	mg/Kg			1	6010C
7439-92-1	Lead	38	1.2	0.62	mg/Kg			1	6010C

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)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281D-CS18"

Lab Sample ID: 680-107159-8

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 09:50

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 86.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Meth
7429-90-5	Aluminum	13000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	16	2.2	0.66	mg/Kg			1	6010C
7439-89-6	Iron	31000	22	7.9	mg/Kg			1	6010C
7439-92-1	Lead	30	1.1	0.59	mg/Kg			1	6010C

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)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281D-CS24"

Lab Sample ID: 680-107159-9

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 09:59

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 85.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Meth
7429-90-5	Aluminum	11000	24	12	mg/Kg			1	6010C
7440-38-2	Arsenic	9.7	2.4	0.69	mg/Kg			1	6010C
7439-89-6	Iron	24000	24	8.2	mg/Kg			1	6010C
7439-92-1	Lead	23	1.2	0.62	mg/Kg			1	6010C

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)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281C-CS6"

Lab Sample ID: 680-107159-10

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 10:30

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 91.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	5700	20	10	mg/Kg			1	6010C
7440-38-2	Arsenic	31	2.0	0.59	mg/Kg			1	6010C
7439-89-6	Iron	46000	20	7.0	mg/Kg			1	6010C
7439-92-1	Lead	220	1.0	0.53	mg/Kg			1	6010C

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)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281C-CS12"
Lab Sample ID: 680-107159-11
Lab Name: TestAmerica Savannah
Job No.: 680-107159-1
SDG ID.: 680-107159-1
Matrix: Solid
Date Sampled: 11/07/2014 10:40
Reporting Basis: DRY
Date Received: 11/12/2014 09:34
% Solids: 90.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Meth
7429-90-5	Aluminum	6500	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	17	2.2	0.64	mg/Kg			1	6010C
7439-89-6	Iron	32000	22	7.6	mg/Kg			1	6010C
7439-92-1	Lead	150	1.1	0.57	mg/Kg			1	6010C

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)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281C-CS18"

Lab Sample ID: 680-107159-12

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 10:50

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 91.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Meth
7429-90-5	Aluminum	5100	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	11	2.2	0.64	mg/Kg		J	1	6010C
7439-89-6	Iron	21000	22	7.5	mg/Kg			1	6010C
7439-92-1	Lead	110	1.1	0.57	mg/Kg			1	6010C

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)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281G-CS6"

Lab Sample ID: 680-107159-13

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 11:25

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 86.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Meth
7429-90-5	Aluminum	15000	23	11	mg/Kg			1	6010C
7440-38-2	Arsenic	23	2.3	0.67	mg/Kg			1	6010C
7439-89-6	Iron	46000	23	7.9	mg/Kg			1	6010C
7439-92-1	Lead	200	1.1	0.60	mg/Kg			1	6010C

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)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281G-CS12"
Lab Sample ID: 680-107159-14
Lab Name: TestAmerica Savannah
Job No.: 680-107159-1
SDG ID.: 680-107159-1
Matrix: Solid
Date Sampled: 11/07/2014 11:35
Reporting Basis: DRY
Date Received: 11/12/2014 09:34
% Solids: 88.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	13000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	14	2.2	0.64	mg/Kg			1	6010C
7439-89-6	Iron	23000	22	7.6	mg/Kg			1	6010C
7439-92-1	Lead	120	1.1	0.58	mg/Kg			1	6010C

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)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281G-CS18"

Lab Sample ID: 680-107159-15

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 11:45

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 81.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	13000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	13	2.2	0.64	mg/Kg			1	6010C
7439-89-6	Iron	22000	22	7.6	mg/Kg			1	6010C
7439-92-1	Lead	87	1.1	0.58	mg/Kg			1	6010C

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)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281G-CS24"

Lab Sample ID: 680-107159-16

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 11:55

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 91.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Meth
7429-90-5	Aluminum	8800	20	10	mg/Kg			1	6010C
7440-38-2	Arsenic	8.7	2.0	0.60	mg/Kg			1	6010C
7439-89-6	Iron	15000	20	7.1	mg/Kg			1	6010C
7439-92-1	Lead	61	1.0	0.54	mg/Kg			1	6010C

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)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281G-CSD12"
Lab Sample ID: 680-107159-17
Lab Name: TestAmerica Savannah
Job No.: 680-107159-1
SDG ID.: 680-107159-1
Matrix: Solid
Date Sampled: 11/07/2014 11:40
Reporting Basis: DRY
Date Received: 11/12/2014 09:34
% Solids: 83.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	12000	23	12	mg/Kg			1	6010C
7440-38-2	Arsenic	13	2.3	0.69	mg/Kg			1	6010C
7439-89-6	Iron	21000	23	8.2	mg/Kg			1	6010C
7439-92-1	Lead	110	1.2	0.62	mg/Kg			1	6010C

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)

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	60430028; 1
Laboratory:	TestAmerica - Savannah, GA	Job ID.:	680-107159-1
Method:	SW-846 8270D Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Date(s) Collected:	11/07/2014
Reviewer:	Teresa Amentt Jennings, URS Group, Inc.	Date:	08/21/2015
Concurrence[1]:	Martha Meyers-Lee, URS Group, Inc.	Date:	08/31/2015

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.			✓	Except 680-107159-4, -9, and -16, all samples were analyzed at a dilution due to elevated concentrations of target analytes and the nature of the sample matrix. Samples 680-107159-4, 9, and 16 were analyzed undiluted.	
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. 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 a week, per the client. A rinsate blank is not associated with this sampling event. Blank contamination will be evaluated based on method blank results.	
12. Were target analytes detected in equipment/rinsate blanks?			✓		

[1] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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?	✓			• FM0281A-CSD6" (680-107159-5) is a field duplicate of FM0281A-CS6" (680-107159-1) • FM0281G-CSD12" (680-107159-17) is a field duplicate of FM0281G-CS12" (680-107159-14)	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to **Attachment B** (Field Duplicate Evaluation)	J/UJ
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270D) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	✓			• Instrument ID: CMSK o Initial Calibration (ICAL): 11/19/2014 o Initial Calibration Verification (ICV): 11/19/2014 @ 15:07 • Instrument ID: CMSY o ICAL: 11/18/2014 o ICV: 11/18/2014 @ 13:56 o Continuing Calibration Verification (CCV): 11/20/2014 @ 15:07	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤20 mean %RSD (≤50% for poor performers), OR r≥0.995, OR r^2≥0.99, and RRF ≥0.050 (≥0.010 for poor performers)): o If %RSD>20 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J flag positive results and UJ flag non-detects o If mean RRF <0.050 (<0.010 for poor performers), then J flag positive results and R flag non-detects (unless the lab analyzed a detectability check standard) • ICV and CCV (ICV Criteria: ≤ ±30%D; CCV Criteria: ≤±20%D (≤50% for poor performers) and RF ≥0.050 (≥0.010 for poor performers)): o If %D> Control Limit (>50% for poor performers), then J flag positive results and UJ flag non-detects o If RF <0.050 (<0.010 for poor performers), then UJ flag non-detected semivolatile target compounds	✓				
20. Was a LCS prepared for each batch and matrix?	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
21. Were LCS recoveries within lab control limits? If no, J flag positive results when %R >Upper Control Limit (UCL) and J/R flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J flag positive results and UJ flag non-detects			✓	LCS only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			Batch 358328: 680-107159- 12 (FM0281C-CS18"), MS/MSD	
25. For all analytes with native sample concentrations < 4 x spiking level, were MS and MSD recoveries within laboratory/project specifications? *Only QC results for project samples that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J Flag positive and UJ flag non-detect results • MS and MSD R% >UCL (or 140): J Flag positive results		✓		FM0281C-CS18" (680-107159-12): Indeno[1,2,3-cd]pyrene @ 48 and 30 %R (35-148). Qualification of data not required[2]	
26. For all analytes with native sample concentrations < 4 x spiking level, were laboratory criteria met for precision during the MS and MSD analysis? *Only QC results for project samples that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J flag positive result and UJ flag non-detect result	✓				

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

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
27. Were surrogate recoveries within lab/project specifications? • If %R for 1 Acid or BN surrogates <10, then J flag positive and R flag non-detect associated sample results (i.e., acid or BN results) • If 2 or more Acid or BN %R >UCL, then J flag positive associated sample results (i.e., acid or BN results) • If 2 or more Acid or BN %R ≥10%, but <LCL, then J flag positive and UJ flag non-detect associated sample results (i.e., acid or BN results) • If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J flag positive and UJ flag non-detect associated sample results (i.e., acid or BN results)		✓		Surrogate o-terphenyl was not recovered (0%) during all diluted sample analyses. Qualification of sample results is not warranted, as the surrogate compound was diluted out of samples 680-107159-1 through -3, -5 through 8, -10 through -15, and -17.	
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J flag positive and UJ flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J flag positive and R flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.	✓				
29. Were lab comments included in report?	✓			Refer to **Attachment C** (Case Narrative)	

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

DV Flag Definitions:

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. 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 analyzed for, but was not detected. The reported limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A

SAMPLE SUMMARY

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107159-1
Sdg Number: 680-107159-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-107159-1	FM0281A-CS6"	Solid	11/07/2014 0831	11/12/2014 0934
680-107159-2	FM0281A-CS12"	Solid	11/07/2014 0841	11/12/2014 0934
680-107159-3	FM0281A-CS18"	Solid	11/07/2014 0851	11/12/2014 0934
680-107159-4	FM0281A-CS24"	Solid	11/07/2014 0901	11/12/2014 0934
680-107159-5	FM0281A-CSD6"	Solid	11/07/2014 0836	11/12/2014 0934
680-107159-6	FM0281D-CS6"	Solid	11/07/2014 0930	11/12/2014 0934
680-107159-7	FM0281D-CS12"	Solid	11/07/2014 0941	11/12/2014 0934
680-107159-8	FM0281D-CS18"	Solid	11/07/2014 0950	11/12/2014 0934
680-107159-9	FM0281D-CS24"	Solid	11/07/2014 0959	11/12/2014 0934
680-107159-10	FM0281C-CS6"	Solid	11/07/2014 1030	11/12/2014 0934
680-107159-11	FM0281C-CS12"	Solid	11/07/2014 1040	11/12/2014 0934
680-107159-12	FM0281C-CS18"	Solid	11/07/2014 1050	11/12/2014 0934
680-107159-12MS	FM0281C-CS18"	Solid	11/07/2014 1050	11/12/2014 0934
680-107159-12MSD	FM0281C-CS18"	Solid	11/07/2014 1050	11/12/2014 0934
680-107159-13	FM0281G-CS6"	Solid	11/07/2014 1125	11/12/2014 0934
680-107159-14	FM0281G-CS12"	Solid	11/07/2014 1135	11/12/2014 0934
680-107159-15	FM0281G-CS18"	Solid	11/07/2014 1145	11/12/2014 0934
680-107159-16	FM0281G-CS24"	Solid	11/07/2014 1155	11/12/2014 0934
680-107159-17	FM0281G-CSD12"	Solid	11/07/2014 1140	11/12/2014 0934

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	FM0281A-CS6" 680-107159-1	RL	FM0281A-CSD6" 680-107159-5	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene	690	150	25000	3900	µg/kg	10125	NA	**24310**	**4050**	**J/UJ-flag, absolute difference > 2x Avg RL**
Anthracene	1800	150	51000	3900	µg/kg	10125	NA	**49200**	**4050**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo[a]anthracene	6400	150	97000	3900	µg/kg	10125	NA	**90600**	**4050**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo[a]pyrene	5200	150	80000	3900	µg/kg	10125	NA	**74800**	**4050**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo[b]fluoranthene	7100	150	97000	3900	µg/kg	10125	NA	**89900**	**4050**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo[g,h,i]perylene	3200	150	42000	3900	µg/kg	10125	NA	**38800**	**4050**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo[k]fluoranthene	3400	150	33000	3900	µg/kg	10125	NA	**29600**	**4050**	**J/UJ-flag, absolute difference > 2x Avg RL**
Chrysene	6100	150	100000	3900	µg/kg	10125	NA	**93900**	**4050**	**J/UJ-flag, absolute difference > 2x Avg RL**
Dibenzo(a,h)anthracene	1100	150	16000	3900	µg/kg	10125	NA	**14900**	**4050**	**J/UJ-flag, absolute difference > 2x Avg RL**
Fluoranthene	12000	150	240000	3900	µg/kg	10125	**181**	NA	NA	**J/UJ-flag, RPD > 50%**
Fluorene	670	150	26000	3900	µg/kg	10125	NA	**25330**	**4050**	**J/UJ-flag, absolute difference > 2x Avg RL**
Indeno[1,2,3-cd]pyrene	3000	150	42000	3900	µg/kg	10125	NA	**39000**	**4050**	**J/UJ-flag, absolute difference > 2x Avg RL**
1-Methylnaphthalene	140 J	150	3400 J	3900	µg/kg	10125	NA	3260	4050	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	170	150	5700	3900	µg/kg	10125	NA	**5530**	**4050**	**J/UJ-flag, absolute difference > 2x Avg RL**
Naphthalene	370	150	16000	3900	µg/kg	10125	NA	**15630**	**4050**	**J/UJ-flag, absolute difference > 2x Avg RL**
Phenanthrene	8100	150	200000	3900	µg/kg	10125	NA	**191900**	**4050**	**J/UJ-flag, absolute difference > 2x Avg RL**
Pyrene	9400	150	170000	3900	µg/kg	10125	NA	**160600**	**4050**	**J/UJ-flag, absolute difference > 2x Avg RL**

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

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

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

Evaluation of Field Duplicate Results **Attachment B**

Analyte	FM0281G-CS12" 680-107159-14	RL	FM0281G-CSD12" 680-107159-17	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Benzo[a]anthracene	41 J	76		80	µg/kg	390	NA	41	156	None, absolute difference ≤ 2x Avg RL
Benzo[a]pyrene	45 J	76	33 J	80	µg/kg	390	NA	12	156	None, absolute difference ≤ 2x Avg RL
Benzo[b]fluoranthene	68 J	76	52 J	80	µg/kg	390	NA	16	156	None, absolute difference ≤ 2x Avg RL
Benzo[g,h,i]perylene	50 J	76	53 J	80	µg/kg	390	NA	3	156	None, absolute difference ≤ 2x Avg RL
Chrysene	58 J	76	44 J	80	µg/kg	390	NA	14	156	None, absolute difference ≤ 2x Avg RL
Fluoranthene	63 J	76	50 J	80	µg/kg	390	NA	13	156	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	43 J	76		80	µg/kg	390	NA	43	156	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	53 J	76		80	µg/kg	390	NA	53	156	None, absolute difference ≤ 2x Avg RL
Naphthalene	44 J	76		80	µg/kg	390	NA	44	156	None, absolute difference ≤ 2x Avg RL
Phenanthrene	46 J	76	38 J	80	µg/kg	390	NA	8	156	None, absolute difference ≤ 2x Avg RL
Pyrene	69 J	76		80	µg/kg	390	NA	69	156	None, absolute difference ≤ 2x Avg RL

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

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

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

ATTACHMENT C

CASE NARRATIVE

CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-107159-1

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 the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 11/12/2014 9:34 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH

Samples FM0281A-CS6" (680-107159-1), FM0281A-CS12" (680-107159-2), FM0281A-CS18" (680-107159-3), FM0281A-CS24" (680-107159-4), FM0281A-CSD6" (680-107159-5), FM0281D-CS6" (680-107159-6), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281D-CS24" (680-107159-9), FM0281C-CS6" (680-107159-10), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281G-CS6" (680-107159-13), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS24" (680-107159-16) and FM0281G-CSD12" (680-107159-17) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D. The samples were prepared on 11/12/2014 and analyzed on 11/18/2014, 11/19/2014 and 11/20/2014.

Method(s) 8270D_LL_PAH: The following sample(s) was diluted due to the nature of the sample matrix : FM0281A-CS18" (680-107159-3), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281C-CS18" (680-107159-12 MS), FM0281C-CS18" (680-107159-12 MSD), FM0281C-CS6" (680-107159-10), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS6" (680-107159-13), FM0281G-CSD12" (680-107159-17), FM0281A-CS12" (680-107159-2), FM0281A-CS6" (680-107159-1), FM0281D-CS6" (680-107159-6). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D_LL_PAH: The following sample(s) was diluted due to the nature of the sample matrix and abundance of target analytes: FM0281A-CSD6" (680-107159-5). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D_LL_PAH: Manual integration was performed on the following sample(s): FM0281A-CS18" (680-107159-3), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281C-CS6" (680-107159-10), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281D-CS24" (680-107159-9), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS24" (680-107159-16), FM0281G-CS6" (680-107159-13), FM0281G-CSD12" (680-107159-17), FM0281A-CS12" (680-107159-2), FM0281A-CS6" (680-107159-1), FM0281D-CS6" (680-107159-6), FM0281A-CSD6" (680-107159-5).

Indeno[1,2,3-cd]pyrene recovery is outside criteria low for the MSD of sample FM0281C-CS18" (680-107159-12) in batch 680-359245.

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

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICP)

Samples FM0281A-CS6" (680-107159-1), FM0281A-CS12" (680-107159-2), FM0281A-CS18" (680-107159-3), FM0281A-CS24" (680-107159-4), FM0281A-CSD6" (680-107159-5), FM0281D-CS6" (680-107159-6), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281D-CS24" (680-107159-9), FM0281C-CS6" (680-107159-10), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281G-CS6" (680-107159-13), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS24" (680-107159-16) and FM0281G-CSD12" (680-107159-17) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 11/13/2014 and analyzed on 11/14/2014.

Iron recovery is outside criteria low for the MS of sample FM0281C-CS18" (680-107159-12) in batch 680-359069. Aluminum recovery is outside criteria high.

Aluminum, Arsenic and Iron have recovery outside criteria high for the MSD of sample FM0281C-CS18" (680-107159-12) in batch 680-359069. Arsenic and Iron exceeded the RPD limit.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS/MOISTURE

Samples FM0281A-CS6" (680-107159-1), FM0281A-CS12" (680-107159-2), FM0281A-CS18" (680-107159-3), FM0281A-CS24" (680-107159-4), FM0281A-CSD6" (680-107159-5), FM0281D-CS6" (680-107159-6), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281D-CS24" (680-107159-9), FM0281C-CS6" (680-107159-10), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281G-CS6" (680-107159-13), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS24" (680-107159-16) and FM0281G-CSD12" (680-107159-17) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 11/12/2014.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281A-CS6" | Lab Sample ID: 680-107159-1

Matrix: Solid | Lab File ID: 2KK1911.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 08:31

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.07(g) | Date Analyzed: 11/19/2014 15:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

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

% Moisture: 11.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	690	J	150	75
208-96-8	Acenaphthylene	150	U	150	75
120-12-7	Anthracene	1800	J	150	75
56-55-3	Benzo[a]anthracene	6400		150	75
50-32-8	Benzo[a]pyrene	5200		150	27
205-99-2	Benzo[b]fluoranthene	7100		150	75
191-24-2	Benzo[g,h,i]perylene	3200		150	75
207-08-9	Benzo[k]fluoranthene	3400		150	45
218-01-9	Chrysene	6100		150	75
53-70-3	Dibenz(a,h)anthracene	1100		150	75
206-44-0	Fluoranthene	12000		150	75
86-73-7	Fluorene	670		150	75
193-39-5	Indeno[1,2,3-cd]pyrene	3000		150	75
90-12-0	1-Methylnaphthalene	140	J	150	70
91-57-6	2-Methylnaphthalene	170	J	150	75
91-20-3	Naphthalene	370		150	75
85-01-8	Phenanthrene	8100		150	54
129-00-0	Pyrene	9400		150	75

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

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)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281A-CS12" | Lab Sample ID: 680-107159-2

Matrix: Solid | Lab File ID: 2KK1912.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 08:41

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.07(g) | Date Analyzed: 11/19/2014 16:16

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

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

% Moisture: 13.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	920		150	76
208-96-8	Acenaphthylene	150	U	150	76
120-12-7	Anthracene	2500		150	76
56-55-3	Benzo[a]anthracene	7000		150	76
50-32-8	Benzo[a]pyrene	5800		150	28
205-99-2	Benzo[b]fluoranthene	8500		150	76
191-24-2	Benzo[g,h,i]perylene	3700		150	76
207-08-9	Benzo[k]fluoranthene	3100		150	46
218-01-9	Chrysene	7200		150	76
53-70-3	Dibenz(a,h)anthracene	1200		150	76
206-44-0	Fluoranthene	15000		150	76
86-73-7	Fluorene	920		150	76
193-39-5	Indeno[1,2,3-cd]pyrene	3600		150	76
90-12-0	1-Methylnaphthalene	220		150	72
91-57-6	2-Methylnaphthalene	320		150	76
91-20-3	Naphthalene	670		150	76
85-01-8	Phenanthrene	13000		150	55
129-00-0	Pyrene	11000		150	76

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

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)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281A-CS18" | Lab Sample ID: 680-107159-3

Matrix: Solid | Lab File ID: 1YK1720.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 08:51

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.11(g) | Date Analyzed: 11/18/2014 18:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 27.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	61	J	93	46
208-96-8	Acenaphthylene	93	U	93	46
120-12-7	Anthracene	160		93	46
56-55-3	Benzo[a]anthracene	580		93	46
50-32-8	Benzo[a]pyrene	520		93	17
205-99-2	Benzo[b]fluoranthene	720		93	46
191-24-2	Benzo[g,h,i]perylene	280		93	46
207-08-9	Benzo[k]fluoranthene	230		93	28
218-01-9	Chrysene	590		93	46
53-70-3	Dibenz(a,h)anthracene	100		93	46
206-44-0	Fluoranthene	1000		93	46
86-73-7	Fluorene	69	J	93	46
193-39-5	Indeno[1,2,3-cd]pyrene	220		93	46
90-12-0	1-Methylnaphthalene	93	U	93	43
91-57-6	2-Methylnaphthalene	93	U	93	46
91-20-3	Naphthalene	93	U	93	46
85-01-8	Phenanthrene	590		93	33
129-00-0	Pyrene	960		93	46

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

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)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281A-CS24" | Lab Sample ID: 680-107159-4

Matrix: Solid | Lab File ID: 1YK1721.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 09:01

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 29.99(g) | Date Analyzed: 11/18/2014 18:29

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 15.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	7.9	U	7.9	3.9
208-96-8	Acenaphthylene	7.9	U	7.9	3.9
120-12-7	Anthracene	7.9	U	7.9	3.9
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	7.9	U	7.9	1.4
205-99-2	Benzo[b]fluoranthene	7.9	U	7.9	3.9
191-24-2	Benzo[g,h,i]perylene	7.9	U	7.9	3.9
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	2.4
218-01-9	Chrysene	7.9	U	7.9	3.9
53-70-3	Dibenz(a,h)anthracene	7.9	U	7.9	3.9
206-44-0	Fluoranthene	7.9	U	7.9	3.9
86-73-7	Fluorene	7.9	U	7.9	3.9
193-39-5	Indeno[1,2,3-cd]pyrene	7.9	U	7.9	3.9
90-12-0	1-Methylnaphthalene	7.9	U	7.9	3.7
91-57-6	2-Methylnaphthalene	7.9	U	7.9	3.9
91-20-3	Naphthalene	7.9	U	7.9	3.9
85-01-8	Phenanthrene	7.9	U	7.9	2.8
129-00-0	Pyrene	7.9	U	7.9	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	98		36-131

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)

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281A-CSD6" | Lab Sample ID: 680-107159-5

Matrix: Solid | Lab File ID: 2YK2006.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 08:36

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.01(g) | Date Analyzed: 11/20/2014 16:13

Con. Extract Vol.: 1(mL) | Dilution Factor: 500

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 14.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	25000	J	3900	1900
208-96-8	Acenaphthylene	3900	U	3900	1900
120-12-7	Anthracene	51000	J	3900	1900
56-55-3	Benzo[a]anthracene	97000		3900	1900
50-32-8	Benzo[a]pyrene	80000		3900	700
205-99-2	Benzo[b]fluoranthene	97000		3900	1900
191-24-2	Benzo[g,h,i]perylene	42000		3900	1900
207-08-9	Benzo[k]fluoranthene	33000		3900	1200
218-01-9	Chrysene	100000		3900	1900
53-70-3	Dibenz(a,h)anthracene	16000		3900	1900
206-44-0	Fluoranthene	240000		3900	1900
86-73-7	Fluorene	26000		3900	1900
193-39-5	Indeno[1,2,3-cd]pyrene	42000		3900	1900
90-12-0	1-Methylnaphthalene	3400	J	3900	1800
91-57-6	2-Methylnaphthalene	5700	J	3900	1900
91-20-3	Naphthalene	16000		3900	1900
85-01-8	Phenanthrene	200000		3900	1400
129-00-0	Pyrene	170000		3900	1900

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

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)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281D-CS6" | Lab Sample ID: 680-107159-6

Matrix: Solid | Lab File ID: 2KK1914.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 09:30

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.03(g) | Date Analyzed: 11/19/2014 17:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

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

% Moisture: 16.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1100		400	200
208-96-8	Acenaphthylene	400	U	400	200
120-12-7	Anthracene	3300		400	200
56-55-3	Benzo[a]anthracene	12000		400	200
50-32-8	Benzo[a]pyrene	9100		400	72
205-99-2	Benzo[b]fluoranthene	13000		400	200
191-24-2	Benzo[g,h,i]perylene	5300		400	200
207-08-9	Benzo[k]fluoranthene	5700		400	120
218-01-9	Chrysene	11000		400	200
53-70-3	Dibenz(a,h)anthracene	2000		400	200
206-44-0	Fluoranthene	22000		400	200
86-73-7	Fluorene	1100		400	200
193-39-5	Indeno[1,2,3-cd]pyrene	5200		400	200
90-12-0	1-Methylnaphthalene	220	J	400	190
91-57-6	2-Methylnaphthalene	280	J	400	200
91-20-3	Naphthalene	460		400	200
85-01-8	Phenanthrene	14000		400	140
129-00-0	Pyrene	17000		400	200

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

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)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281D-CS12" | Lab Sample ID: 680-107159-7

Matrix: Solid | Lab File ID: 1YK1724.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 09:41

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.09(g) | Date Analyzed: 11/18/2014 19:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

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

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	78	U	78	38
208-96-8	Acenaphthylene	78	U	78	38
120-12-7	Anthracene	66	J	78	38
56-55-3	Benzo[a]anthracene	340		78	38
50-32-8	Benzo[a]pyrene	390		78	14
205-99-2	Benzo[b]fluoranthene	500		78	38
191-24-2	Benzo[g,h,i]perylene	230		78	38
207-08-9	Benzo[k]fluoranthene	200		78	23
218-01-9	Chrysene	380		78	38
53-70-3	Dibenz(a,h)anthracene	90		78	38
206-44-0	Fluoranthene	580		78	38
86-73-7	Fluorene	78	U	78	38
193-39-5	Indeno[1,2,3-cd]pyrene	180		78	38
90-12-0	1-Methylnaphthalene	78	U	78	36
91-57-6	2-Methylnaphthalene	78	U	78	38
91-20-3	Naphthalene	43	J	78	38
85-01-8	Phenanthrene	320		78	28
129-00-0	Pyrene	560		78	38

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

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)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281D-CS18" | Lab Sample ID: 680-107159-8

Matrix: Solid | Lab File ID: 1YK1725.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 09:50

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.07(g) | Date Analyzed: 11/18/2014 19:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 13.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	77	U	77	38
208-96-8	Acenaphthylene	77	U	77	38
120-12-7	Anthracene	77	U	77	38
56-55-3	Benzo[a]anthracene	65	J	77	38
50-32-8	Benzo[a]pyrene	68	J	77	14
205-99-2	Benzo[b]fluoranthene	78		77	38
191-24-2	Benzo[g,h,i]perylene	76	J	77	38
207-08-9	Benzo[k]fluoranthene	43	J	77	23
218-01-9	Chrysene	75	J	77	38
53-70-3	Dibenz(a,h)anthracene	77	U	77	38
206-44-0	Fluoranthene	120		77	38
86-73-7	Fluorene	77	U	77	38
193-39-5	Indeno[1,2,3-cd]pyrene	54	J	77	38
90-12-0	1-Methylnaphthalene	77	U	77	36
91-57-6	2-Methylnaphthalene	77	U	77	38
91-20-3	Naphthalene	77	U	77	38
85-01-8	Phenanthrene	73	J	77	28
129-00-0	Pyrene	110		77	38

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

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)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281D-CS24" | Lab Sample ID: 680-107159-9

Matrix: Solid | Lab File ID: 1YK1726.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 09:59

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.15(g) | Date Analyzed: 11/18/2014 20:20

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 15.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	20		7.8	3.9
208-96-8	Acenaphthylene	7.8	U	7.8	3.9
120-12-7	Anthracene	43		7.8	3.9
56-55-3	Benzo[a]anthracene	130		7.8	3.9
50-32-8	Benzo[a]pyrene	100		7.8	1.4
205-99-2	Benzo[b]fluoranthene	150		7.8	3.9
191-24-2	Benzo[g,h,i]perylene	54		7.8	3.9
207-08-9	Benzo[k]fluoranthene	50		7.8	2.3
218-01-9	Chrysene	130		7.8	3.9
53-70-3	Dibenz(a,h)anthracene	20		7.8	3.9
206-44-0	Fluoranthene	240		7.8	3.9
86-73-7	Fluorene	23		7.8	3.9
193-39-5	Indeno[1,2,3-cd]pyrene	46		7.8	3.9
90-12-0	1-Methylnaphthalene	6.5	J	7.8	3.6
91-57-6	2-Methylnaphthalene	8.4		7.8	3.9
91-20-3	Naphthalene	14		7.8	3.9
85-01-8	Phenanthrene	200		7.8	2.8
129-00-0	Pyrene	220		7.8	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	107		36-131

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)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281C-CS6" | Lab Sample ID: 680-107159-10

Matrix: Solid | Lab File ID: 1YK1727.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 10:30

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.00(g) | Date Analyzed: 11/18/2014 20:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	73	U	73	36
208-96-8	Acenaphthylene	73	U	73	36
120-12-7	Anthracene	73	U	73	36
56-55-3	Benzo[a]anthracene	140		73	36
50-32-8	Benzo[a]pyrene	140		73	13
205-99-2	Benzo[b]fluoranthene	250		73	36
191-24-2	Benzo[g,h,i]perylene	93		73	36
207-08-9	Benzo[k]fluoranthene	92		73	22
218-01-9	Chrysene	170		73	36
53-70-3	Dibenz(a,h)anthracene	38	J	73	36
206-44-0	Fluoranthene	190		73	36
86-73-7	Fluorene	73	U	73	36
193-39-5	Indeno[1,2,3-cd]pyrene	71	J	73	36
90-12-0	1-Methylnaphthalene	73	U	73	34
91-57-6	2-Methylnaphthalene	73	U	73	36
91-20-3	Naphthalene	73	U	73	36
85-01-8	Phenanthrene	77		73	26
129-00-0	Pyrene	220		73	36

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

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)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281C-CS12" | Lab Sample ID: 680-107159-11

Matrix: Solid | Lab File ID: 1YK1728.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 10:40

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 29.96(g) | Date Analyzed: 11/18/2014 21:05

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 9.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	74	U	74	36
208-96-8	Acenaphthylene	74	U	74	36
120-12-7	Anthracene	74	U	74	36
56-55-3	Benzo[a]anthracene	190		74	36
50-32-8	Benzo[a]pyrene	280		74	13
205-99-2	Benzo[b]fluoranthene	460		74	36
191-24-2	Benzo[g,h,i]perylene	220		74	36
207-08-9	Benzo[k]fluoranthene	130		74	22
218-01-9	Chrysene	300		74	36
53-70-3	Dibenz(a,h)anthracene	79		74	36
206-44-0	Fluoranthene	310		74	36
86-73-7	Fluorene	74	U	74	36
193-39-5	Indeno[1,2,3-cd]pyrene	180		74	36
90-12-0	1-Methylnaphthalene	74	U	74	34
91-57-6	2-Methylnaphthalene	74	U	74	36
91-20-3	Naphthalene	74	U	74	36
85-01-8	Phenanthrene	130		74	26
129-00-0	Pyrene	330		74	36

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

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)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281C-CS18" | Lab Sample ID: 680-107159-12

Matrix: Solid | Lab File ID: 1YK1717.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 10:50

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.03(g) | Date Analyzed: 11/18/2014 16:59

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	73	U	73	36
208-96-8	Acenaphthylene	73	U	73	36
120-12-7	Anthracene	73	U	73	36
56-55-3	Benzo[a]anthracene	73		73	36
50-32-8	Benzo[a]pyrene	100		73	13
205-99-2	Benzo[b]fluoranthene	170		73	36
191-24-2	Benzo[g,h,i]perylene	100		73	36
207-08-9	Benzo[k]fluoranthene	59	J	73	22
218-01-9	Chrysene	110		73	36
53-70-3	Dibenz(a,h)anthracene	73	U	73	36
206-44-0	Fluoranthene	140		73	36
86-73-7	Fluorene	73	U	73	36
193-39-5	Indeno[1,2,3-cd]pyrene	67	J	73	36
90-12-0	1-Methylnaphthalene	73	U	73	34
91-57-6	2-Methylnaphthalene	73	U	73	36
91-20-3	Naphthalene	73	U	73	36
85-01-8	Phenanthrene	81		73	26
129-00-0	Pyrene	140		73	36

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

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)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281G-CS6" | Lab Sample ID: 680-107159-13

Matrix: Solid | Lab File ID: 1YK1729.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 11:25

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.07(g) | Date Analyzed: 11/18/2014 21:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 13.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	77	U	77	38
208-96-8	Acenaphthylene	77	U	77	38
120-12-7	Anthracene	77	U	77	38
56-55-3	Benzo[a]anthracene	74	J	77	38
50-32-8	Benzo[a]pyrene	82		77	14
205-99-2	Benzo[b]fluoranthene	120		77	38
191-24-2	Benzo[g,h,i]perylene	74	J	77	38
207-08-9	Benzo[k]fluoranthene	33	J	77	23
218-01-9	Chrysene	100		77	38
53-70-3	Dibenz(a,h)anthracene	77	U	77	38
206-44-0	Fluoranthene	140		77	38
86-73-7	Fluorene	77	U	77	38
193-39-5	Indeno[1,2,3-cd]pyrene	49	J	77	38
90-12-0	1-Methylnaphthalene	77	U	77	36
91-57-6	2-Methylnaphthalene	77	U	77	38
91-20-3	Naphthalene	77	U	77	38
85-01-8	Phenanthrene	85		77	28
129-00-0	Pyrene	150		77	38

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

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)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281G-CS12" | Lab Sample ID: 680-107159-14

Matrix: Solid | Lab File ID: 1YK1730.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 11:35

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.03(g) | Date Analyzed: 11/18/2014 21:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 11.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	76	U	76	37
208-96-8	Acenaphthylene	76	U	76	37
120-12-7	Anthracene	76	U	76	37
56-55-3	Benzo[a]anthracene	41	J	76	37
50-32-8	Benzo[a]pyrene	45	J	76	14
205-99-2	Benzo[b]fluoranthene	68	J	76	37
191-24-2	Benzo[g,h,i]perylene	50	J	76	37
207-08-9	Benzo[k]fluoranthene	76	U	76	23
218-01-9	Chrysene	58	J	76	37
53-70-3	Dibenz(a,h)anthracene	76	U	76	37
206-44-0	Fluoranthene	63	J	76	37
86-73-7	Fluorene	76	U	76	37
193-39-5	Indeno[1,2,3-cd]pyrene	76	U	76	37
90-12-0	1-Methylnaphthalene	43	J	76	35
91-57-6	2-Methylnaphthalene	53	J	76	37
91-20-3	Naphthalene	44	J	76	37
85-01-8	Phenanthrene	46	J	76	27
129-00-0	Pyrene	69	J	76	37

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

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)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281G-CS18" | Lab Sample ID: 680-107159-15

Matrix: Solid | Lab File ID: 1YK1731.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 11:45

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.07(g) | Date Analyzed: 11/18/2014 22:11

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	82	U	82	40
208-96-8	Acenaphthylene	82	U	82	40
120-12-7	Anthracene	82	U	82	40
56-55-3	Benzo[a]anthracene	56	J	82	40
50-32-8	Benzo[a]pyrene	55	J	82	15
205-99-2	Benzo[b]fluoranthene	89		82	40
191-24-2	Benzo[g,h,i]perylene	65	J	82	40
207-08-9	Benzo[k]fluoranthene	82	U	82	25
218-01-9	Chrysene	79	J	82	40
53-70-3	Dibenz(a,h)anthracene	82	U	82	40
206-44-0	Fluoranthene	86		82	40
86-73-7	Fluorene	82	U	82	40
193-39-5	Indeno[1,2,3-cd]pyrene	40	J	82	40
90-12-0	1-Methylnaphthalene	38	J	82	38
91-57-6	2-Methylnaphthalene	42	J	82	40
91-20-3	Naphthalene	82	U	82	40
85-01-8	Phenanthrene	67	J	82	29
129-00-0	Pyrene	91		82	40

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

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)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281G-CS24" | Lab Sample ID: 680-107159-16

Matrix: Solid | Lab File ID: 1YK1732.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 11:55

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.13(g) | Date Analyzed: 11/18/2014 22:34

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 9.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	7.3	U	7.3	3.6
208-96-8	Acenaphthylene	7.3	U	7.3	3.6
120-12-7	Anthracene	7.3	U	7.3	3.6
56-55-3	Benzo[a]anthracene	12		7.3	3.6
50-32-8	Benzo[a]pyrene	12		7.3	1.3
205-99-2	Benzo[b]fluoranthene	21		7.3	3.6
191-24-2	Benzo[g,h,i]perylene	9.2		7.3	3.6
207-08-9	Benzo[k]fluoranthene	6.2	J	7.3	2.2
218-01-9	Chrysene	21		7.3	3.6
53-70-3	Dibenz(a,h)anthracene	7.3	U	7.3	3.6
206-44-0	Fluoranthene	20		7.3	3.6
86-73-7	Fluorene	7.3	U	7.3	3.6
193-39-5	Indeno[1,2,3-cd]pyrene	6.0	J	7.3	3.6
90-12-0	1-Methylnaphthalene	11		7.3	3.4
91-57-6	2-Methylnaphthalene	11		7.3	3.6
91-20-3	Naphthalene	6.5	J	7.3	3.6
85-01-8	Phenanthrene	18		7.3	2.6
129-00-0	Pyrene	7.3	U	7.3	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	108		36-131

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)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281G-CSD12" | Lab Sample ID: 680-107159-17

Matrix: Solid | Lab File ID: 1YK1733.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 11:40

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.07(g) | Date Analyzed: 11/18/2014 22:57

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 16.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	80	U	80	40
208-96-8	Acenaphthylene	80	U	80	40
120-12-7	Anthracene	80	U	80	40
56-55-3	Benzo[a]anthracene	80	U	80	40
50-32-8	Benzo[a]pyrene	33	J	80	14
205-99-2	Benzo[b]fluoranthene	52	J	80	40
191-24-2	Benzo[g,h,i]perylene	53	J	80	40
207-08-9	Benzo[k]fluoranthene	80	U	80	24
218-01-9	Chrysene	44	J	80	40
53-70-3	Dibenz(a,h)anthracene	80	U	80	40
206-44-0	Fluoranthene	50	J	80	40
86-73-7	Fluorene	80	U	80	40
193-39-5	Indeno[1,2,3-cd]pyrene	80	U	80	40
90-12-0	1-Methylnaphthalene	80	U	80	37
91-57-6	2-Methylnaphthalene	80	U	80	40
91-20-3	Naphthalene	80	U	80	40
85-01-8	Phenanthrene	38	J	80	29
129-00-0	Pyrene	80	U	80	40

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

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: 680-107159-1

SDG Number: 680-107159-1

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.
Lisa M Harvey
Project Manager II
11/21/2014 2:47 PM

Lisa M Harvey, Project Manager II
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3221
lisa.harvey@testamericainc.com
11/21/2014

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

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

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CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-107159-1

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 the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 11/12/2014 9:34 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH

Samples FM0281A-CS6" (680-107159-1), FM0281A-CS12" (680-107159-2), FM0281A-CS18" (680-107159-3), FM0281A-CS24" (680-107159-4), FM0281A-CSD6" (680-107159-5), FM0281D-CS6" (680-107159-6), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281D-CS24" (680-107159-9), FM0281C-CS6" (680-107159-10), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281G-CS6" (680-107159-13), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS24" (680-107159-16) and FM0281G-CSD12" (680-107159-17) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D. The samples were prepared on 11/12/2014 and analyzed on 11/18/2014, 11/19/2014 and 11/20/2014.

Method(s) 8270D_LL_PAH: The following sample(s) was diluted due to the nature of the sample matrix : FM0281A-CS18" (680-107159-3), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281C-CS18" (680-107159-12 MS), FM0281C-CS18" (680-107159-12 MSD), FM0281C-CS6" (680-107159-10), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS6" (680-107159-13), FM0281G-CSD12" (680-107159-17), FM0281A-CS12" (680-107159-2), FM0281A-CS6" (680-107159-1), FM0281D-CS6" (680-107159-6). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D_LL_PAH: The following sample(s) was diluted due to the nature of the sample matrix and abundance of target analytes: FM0281A-CSD6" (680-107159-5). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D_LL_PAH: Manual integration was performed on the following sample(s): FM0281A-CS18" (680-107159-3), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281C-CS6" (680-107159-10), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281D-CS24" (680-107159-9), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS24" (680-107159-16), FM0281G-CS6" (680-107159-13), FM0281G-CSD12" (680-107159-17), FM0281A-CS12" (680-107159-2), FM0281A-CS6" (680-107159-1), FM0281D-CS6" (680-107159-6), FM0281A-CSD6" (680-107159-5).

Indeno[1,2,3-cd]pyrene recovery is outside criteria low for the MSD of sample FM0281C-CS18" (680-107159-12) in batch 680-359245.

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

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICP)

Samples FM0281A-CS6" (680-107159-1), FM0281A-CS12" (680-107159-2), FM0281A-CS18" (680-107159-3), FM0281A-CS24" (680-107159-4), FM0281A-CSD6" (680-107159-5), FM0281D-CS6" (680-107159-6), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281D-CS24" (680-107159-9), FM0281C-CS6" (680-107159-10), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281G-CS6" (680-107159-13), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS24" (680-107159-16) and FM0281G-CSD12" (680-107159-17) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 11/13/2014 and analyzed on 11/14/2014.

Iron recovery is outside criteria low for the MS of sample FM0281C-CS18" (680-107159-12) in batch 680-359069. Aluminum recovery is outside criteria high.

Aluminum, Arsenic and Iron have recovery outside criteria high for the MSD of sample FM0281C-CS18" (680-107159-12) in batch 680-359069. Arsenic and Iron exceeded the RPD limit.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS/MOISTURE

Samples FM0281A-CS6" (680-107159-1), FM0281A-CS12" (680-107159-2), FM0281A-CS18" (680-107159-3), FM0281A-CS24" (680-107159-4), FM0281A-CSD6" (680-107159-5), FM0281D-CS6" (680-107159-6), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281D-CS24" (680-107159-9), FM0281C-CS6" (680-107159-10), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281G-CS6" (680-107159-13), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS24" (680-107159-16) and FM0281G-CSD12" (680-107159-17) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 11/12/2014.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107159-1
Sdg Number: 680-107159-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-107159-1	FM0281A-CS6"	Solid	11/07/2014 0831	11/12/2014 0934
680-107159-2	FM0281A-CS12"	Solid	11/07/2014 0841	11/12/2014 0934
680-107159-3	FM0281A-CS18"	Solid	11/07/2014 0851	11/12/2014 0934
680-107159-4	FM0281A-CS24"	Solid	11/07/2014 0901	11/12/2014 0934
680-107159-5	FM0281A-CSD6"	Solid	11/07/2014 0836	11/12/2014 0934
680-107159-6	FM0281D-CS6"	Solid	11/07/2014 0930	11/12/2014 0934
680-107159-7	FM0281D-CS12"	Solid	11/07/2014 0941	11/12/2014 0934
680-107159-8	FM0281D-CS18"	Solid	11/07/2014 0950	11/12/2014 0934
680-107159-9	FM0281D-CS24"	Solid	11/07/2014 0959	11/12/2014 0934
680-107159-10	FM0281C-CS6"	Solid	11/07/2014 1030	11/12/2014 0934
680-107159-11	FM0281C-CS12"	Solid	11/07/2014 1040	11/12/2014 0934
680-107159-12	FM0281C-CS18"	Solid	11/07/2014 1050	11/12/2014 0934
680-107159-12MS	FM0281C-CS18"	Solid	11/07/2014 1050	11/12/2014 0934
680-107159-12MSD	FM0281C-CS18"	Solid	11/07/2014 1050	11/12/2014 0934
680-107159-13	FM0281G-CS6"	Solid	11/07/2014 1125	11/12/2014 0934
680-107159-14	FM0281G-CS12"	Solid	11/07/2014 1135	11/12/2014 0934
680-107159-15	FM0281G-CS18"	Solid	11/07/2014 1145	11/12/2014 0934
680-107159-16	FM0281G-CS24"	Solid	11/07/2014 1155	11/12/2014 0934
680-107159-17	FM0281G-CSD12"	Solid	11/07/2014 1140	11/12/2014 0934

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107159-1
Sdg Number: 680-107159-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds (GC/MS) Low level PAH	TAL SAV	SW846 8270D_LL_PAH	
Microwave Extraction	TAL SAV		SW846 3546
Metals (ICP)	TAL SAV	SW846 6010C	
Preparation, Metals	TAL SAV		SW846 3050B
Percent Moisture	TAL SAV	EPA Moisture	

Lab References:

TAL SAV = TestAmerica Savannah

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: 680-107159-1
Sdg Number: 680-107159-1

Method	Analyst	Analyst ID
SW846 8270D_LL_PAH	Webb, Kevin M	KMW
SW846 6010C	Bland, Brian C	BCB
EPA Moisture	Longworth, Hazel M	HML

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107159-1
Sdg Number: 680-107159-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery 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.
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	F2	MS/MSD RPD exceeds control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	V	Serial Dilution exceeds the control limits

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107159-1
Sdg Number: 680-107159-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 680-358328					
LCS 680-358328/19-A	Lab Control Sample	T	Solid	3546	
MB 680-358328/18-A	Method Blank	T	Solid	3546	
680-107159-1	FM0281A-CS6"	T	Solid	3546	
680-107159-2	FM0281A-CS12"	T	Solid	3546	
680-107159-3	FM0281A-CS18"	T	Solid	3546	
680-107159-4	FM0281A-CS24"	T	Solid	3546	
680-107159-5	FM0281A-CSD6"	T	Solid	3546	
680-107159-6	FM0281D-CS6"	T	Solid	3546	
680-107159-7	FM0281D-CS12"	T	Solid	3546	
680-107159-8	FM0281D-CS18"	T	Solid	3546	
680-107159-9	FM0281D-CS24"	T	Solid	3546	
680-107159-10	FM0281C-CS6"	T	Solid	3546	
680-107159-11	FM0281C-CS12"	T	Solid	3546	
680-107159-12	FM0281C-CS18"	T	Solid	3546	
680-107159-12MS	Matrix Spike	T	Solid	3546	
680-107159-12MSD	Matrix Spike Duplicate	T	Solid	3546	
680-107159-13	FM0281G-CS6"	T	Solid	3546	
680-107159-14	FM0281G-CS12"	T	Solid	3546	
680-107159-15	FM0281G-CS18"	T	Solid	3546	
680-107159-16	FM0281G-CS24"	T	Solid	3546	
680-107159-17	FM0281G-CSD12"	T	Solid	3546	
Analysis Batch:680-359245					
LCS 680-358328/19-A	Lab Control Sample	T	Solid	8270D_LL_PAH	680-358328
MB 680-358328/18-A	Method Blank	T	Solid	8270D_LL_PAH	680-358328
680-107159-3	FM0281A-CS18"	T	Solid	8270D_LL_PAH	680-358328
680-107159-4	FM0281A-CS24"	T	Solid	8270D_LL_PAH	680-358328
680-107159-7	FM0281D-CS12"	T	Solid	8270D_LL_PAH	680-358328
680-107159-8	FM0281D-CS18"	T	Solid	8270D_LL_PAH	680-358328
680-107159-9	FM0281D-CS24"	T	Solid	8270D_LL_PAH	680-358328
680-107159-10	FM0281C-CS6"	T	Solid	8270D_LL_PAH	680-358328
680-107159-11	FM0281C-CS12"	T	Solid	8270D_LL_PAH	680-358328
680-107159-12	FM0281C-CS18"	T	Solid	8270D_LL_PAH	680-358328
680-107159-12MS	Matrix Spike	T	Solid	8270D_LL_PAH	680-358328
680-107159-12MSD	Matrix Spike Duplicate	T	Solid	8270D_LL_PAH	680-358328
680-107159-13	FM0281G-CS6"	T	Solid	8270D_LL_PAH	680-358328
680-107159-14	FM0281G-CS12"	T	Solid	8270D_LL_PAH	680-358328
680-107159-15	FM0281G-CS18"	T	Solid	8270D_LL_PAH	680-358328
680-107159-16	FM0281G-CS24"	T	Solid	8270D_LL_PAH	680-358328
680-107159-17	FM0281G-CSD12"	T	Solid	8270D_LL_PAH	680-358328
Analysis Batch:680-359503					
680-107159-1	FM0281A-CS6"	T	Solid	8270D_LL_PAH	680-358328
680-107159-2	FM0281A-CS12"	T	Solid	8270D_LL_PAH	680-358328
680-107159-6	FM0281D-CS6"	T	Solid	8270D_LL_PAH	680-358328

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107159-1
Sdg Number: 680-107159-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:680-359719					
680-107159-5	FM0281A-CSD6"	T	Solid	8270D_LL_PAH	680-358328

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107159-1
Sdg Number: 680-107159-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-358466					
LCS 680-358466/2-A	Lab Control Sample	T	Solid	3050B	
MB 680-358466/1-A	Method Blank	T	Solid	3050B	
680-107159-1	FM0281A-CS6"	T	Solid	3050B	
680-107159-2	FM0281A-CS12"	T	Solid	3050B	
680-107159-3	FM0281A-CS18"	T	Solid	3050B	
680-107159-4	FM0281A-CS24"	T	Solid	3050B	
680-107159-5	FM0281A-CSD6"	T	Solid	3050B	
680-107159-6	FM0281D-CS6"	T	Solid	3050B	
680-107159-7	FM0281D-CS12"	T	Solid	3050B	
680-107159-8	FM0281D-CS18"	T	Solid	3050B	
680-107159-9	FM0281D-CS24"	T	Solid	3050B	
680-107159-10	FM0281C-CS6"	T	Solid	3050B	
680-107159-11	FM0281C-CS12"	T	Solid	3050B	
680-107159-12	FM0281C-CS18"	T	Solid	3050B	
680-107159-12MS	Matrix Spike	T	Solid	3050B	
680-107159-12MSD	Matrix Spike Duplicate	T	Solid	3050B	
680-107159-13	FM0281G-CS6"	T	Solid	3050B	
680-107159-14	FM0281G-CS12"	T	Solid	3050B	
680-107159-15	FM0281G-CS18"	T	Solid	3050B	
680-107159-16	FM0281G-CS24"	T	Solid	3050B	
680-107159-17	FM0281G-CSD12"	T	Solid	3050B	
Analysis Batch:680-359069					
LCS 680-358466/2-A	Lab Control Sample	T	Solid	6010C	680-358466
MB 680-358466/1-A	Method Blank	T	Solid	6010C	680-358466
680-107159-1	FM0281A-CS6"	T	Solid	6010C	680-358466
680-107159-2	FM0281A-CS12"	T	Solid	6010C	680-358466
680-107159-3	FM0281A-CS18"	T	Solid	6010C	680-358466
680-107159-4	FM0281A-CS24"	T	Solid	6010C	680-358466
680-107159-5	FM0281A-CSD6"	T	Solid	6010C	680-358466
680-107159-6	FM0281D-CS6"	T	Solid	6010C	680-358466
680-107159-7	FM0281D-CS12"	T	Solid	6010C	680-358466
680-107159-8	FM0281D-CS18"	T	Solid	6010C	680-358466
680-107159-9	FM0281D-CS24"	T	Solid	6010C	680-358466
680-107159-10	FM0281C-CS6"	T	Solid	6010C	680-358466
680-107159-11	FM0281C-CS12"	T	Solid	6010C	680-358466
680-107159-12	FM0281C-CS18"	T	Solid	6010C	680-358466
680-107159-12MS	Matrix Spike	T	Solid	6010C	680-358466
680-107159-12MSD	Matrix Spike Duplicate	T	Solid	6010C	680-358466
680-107159-13	FM0281G-CS6"	T	Solid	6010C	680-358466
680-107159-14	FM0281G-CS12"	T	Solid	6010C	680-358466
680-107159-15	FM0281G-CS18"	T	Solid	6010C	680-358466
680-107159-16	FM0281G-CS24"	T	Solid	6010C	680-358466
680-107159-17	FM0281G-CSD12"	T	Solid	6010C	680-358466

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107159-1
Sdg Number: 680-107159-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Report Basis					
T = Total					
General Chemistry					
Analysis Batch:680-358398					
680-107159-1	FM0281A-CS6"	T	Solid	Moisture	
680-107159-2	FM0281A-CS12"	T	Solid	Moisture	
680-107159-3	FM0281A-CS18"	T	Solid	Moisture	
680-107159-4	FM0281A-CS24"	T	Solid	Moisture	
680-107159-5	FM0281A-CSD6"	T	Solid	Moisture	
680-107159-6	FM0281D-CS6"	T	Solid	Moisture	
680-107159-7	FM0281D-CS12"	T	Solid	Moisture	
680-107159-8	FM0281D-CS18"	T	Solid	Moisture	
680-107159-9	FM0281D-CS24"	T	Solid	Moisture	
680-107159-10	FM0281C-CS6"	T	Solid	Moisture	
680-107159-11	FM0281C-CS12"	T	Solid	Moisture	
680-107159-12	FM0281C-CS18"	T	Solid	Moisture	
680-107159-12MS	Matrix Spike	T	Solid	Moisture	
680-107159-12MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-107159-13	FM0281G-CS6"	T	Solid	Moisture	
680-107159-14	FM0281G-CS12"	T	Solid	Moisture	
680-107159-15	FM0281G-CS18"	T	Solid	Moisture	
680-107159-16	FM0281G-CS24"	T	Solid	Moisture	
680-107159-17	FM0281G-CSD12"	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Instrument ID: CMSK Analysis Batch Number: 359503

Lab Sample ID: 680-107159-1 Client Sample ID: FM0281A-CS6"

Date Analyzed: 11/19/14 15:53 Lab File ID: 2KK1911.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	10.22	Split Peak	webbk	11/20/14 08:13

Lab Sample ID: 680-107159-2 Client Sample ID: FM0281A-CS12"

Date Analyzed: 11/19/14 16:16 Lab File ID: 2KK1912.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	10.21	Split Peak	webbk	11/20/14 10:08
Benzo[k]fluoranthene	10.23	Split Peak	webbk	11/20/14 10:08

Lab Sample ID: 680-107159-6 Client Sample ID: FM0281D-CS6"

Date Analyzed: 11/19/14 17:01 Lab File ID: 2KK1914.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	10.22	Split Peak	webbk	11/20/14 08:15

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Instrument ID: CMSY Analysis Batch Number: 359245

Lab Sample ID: 680-107159-12 Client Sample ID: FM0281C-CS18"

Date Analyzed: 11/18/14 16:59 Lab File ID: 1YK1717.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	11.80	Split Peak	webbk	11/19/14 07:53
Benzo[k]fluoranthene	11.82	Split Peak	webbk	11/19/14 07:53

Lab Sample ID: 680-107159-3 Client Sample ID: FM0281A-CS18"

Date Analyzed: 11/18/14 18:07 Lab File ID: 1YK1720.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	11.80	Split Peak	webbk	11/19/14 07:58
Benzo[k]fluoranthene	11.82	Split Peak	webbk	11/19/14 07:58

Lab Sample ID: 680-107159-7 Client Sample ID: FM0281D-CS12"

Date Analyzed: 11/18/14 19:36 Lab File ID: 1YK1724.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	11.81	Split Peak	webbk	11/19/14 08:00
Benzo[k]fluoranthene	11.82	Split Peak	webbk	11/19/14 08:00

Lab Sample ID: 680-107159-8 Client Sample ID: FM0281D-CS18"

Date Analyzed: 11/18/14 19:58 Lab File ID: 1YK1725.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	11.81	Split Peak	webbk	11/19/14 08:01
Benzo[k]fluoranthene	11.82	Split Peak	webbk	11/19/14 08:01

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Instrument ID: CMSY Analysis Batch Number: 359245

Lab Sample ID: 680-107159-9 Client Sample ID: FM0281D-CS24"

Date Analyzed: 11/18/14 20:20 Lab File ID: 1YK1726.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	11.81	Split Peak	webbk	11/19/14 08:02
Benzo[k]fluoranthene	11.83	Split Peak	webbk	11/19/14 08:02

Lab Sample ID: 680-107159-10 Client Sample ID: FM0281C-CS6"

Date Analyzed: 11/18/14 20:43 Lab File ID: 1YK1727.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	11.81	Split Peak	webbk	11/19/14 08:03
Benzo[k]fluoranthene	11.82	Split Peak	webbk	11/19/14 08:03

Lab Sample ID: 680-107159-11 Client Sample ID: FM0281C-CS12"

Date Analyzed: 11/18/14 21:05 Lab File ID: 1YK1728.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	11.81	Split Peak	webbk	11/19/14 08:04
Benzo[k]fluoranthene	11.83	Split Peak	webbk	11/19/14 08:04

Lab Sample ID: 680-107159-13 Client Sample ID: FM0281G-CS6"

Date Analyzed: 11/18/14 21:27 Lab File ID: 1YK1729.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	11.81	Split Peak	webbk	11/19/14 08:06
Benzo[k]fluoranthene	11.83	Split Peak	webbk	11/19/14 08:06

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Instrument ID: CMSY Analysis Batch Number: 359245

Lab Sample ID: 680-107159-14 Client Sample ID: FM0281G-CS12"

Date Analyzed: 11/18/14 21:49 Lab File ID: 1YK1730.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	11.81	Split Peak	webbk	11/19/14 08:07
Benzo[k]fluoranthene	11.83	Split Peak	webbk	11/19/14 08:07

Lab Sample ID: 680-107159-15 Client Sample ID: FM0281G-CS18"

Date Analyzed: 11/18/14 22:11 Lab File ID: 1YK1731.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	11.80	Split Peak	webbk	11/19/14 08:08
Benzo[k]fluoranthene	11.83	Split Peak	webbk	11/19/14 08:08

Lab Sample ID: 680-107159-16 Client Sample ID: FM0281G-CS24"

Date Analyzed: 11/18/14 22:34 Lab File ID: 1YK1732.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	11.81	Split Peak	webbk	11/19/14 08:09
Benzo[k]fluoranthene	11.83	Split Peak	webbk	11/19/14 08:09

Lab Sample ID: 680-107159-17 Client Sample ID: FM0281G-CSD12"

Date Analyzed: 11/18/14 22:57 Lab File ID: 1YK1733.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	11.81	Split Peak	webbk	11/19/14 08:10
Benzo[k]fluoranthene	11.83	Split Peak	webbk	11/19/14 08:10

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Instrument ID: CMSY Analysis Batch Number: 359719

Lab Sample ID: 680-107159-5 Client Sample ID: FM0281A-CSD6"

Date Analyzed: 11/20/14 16:13 Lab File ID: 2YK2006.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	11.42	Split Peak	webbk	11/21/14 06:36
Benzo[k]fluoranthene	11.43	Split Peak	webbk	11/21/14 06:36

Method 8270D Low Level

Semivolatile Organic Compounds (GC/MS) Low Level by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Matrix: Solid Level: Low

GC Column (1): RXi- 5Sil MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	OTPH	#
FM0281A-CS6"	680-107159-1	0	D
FM0281A-CS12"	680-107159-2	0	D
FM0281A-CS18"	680-107159-3	0	D
FM0281A-CS24"	680-107159-4	98	
FM0281A-CSD6"	680-107159-5	0	D
FM0281D-CS6"	680-107159-6	0	D
FM0281D-CS12"	680-107159-7	0	D
FM0281D-CS18"	680-107159-8	0	D
FM0281D-CS24"	680-107159-9	107	
FM0281C-CS6"	680-107159-10	0	D
FM0281C-CS12"	680-107159-11	0	D
FM0281C-CS18"	680-107159-12	0	D
FM0281G-CS6"	680-107159-13	0	D
FM0281G-CS12"	680-107159-14	0	D
FM0281G-CS18"	680-107159-15	0	D
FM0281G-CS24"	680-107159-16	108	
FM0281G-CSD12"	680-107159-17	0	D
	MB 680-358328/18-A	85	
	LCS 680-358328/19-A	80	
FM0281C-CS18" MS	680-107159-12 MS	0	D
FM0281C-CS18" MSD	680-107159-12 MSD	0	D

QC LIMITS
OTPH = o-Terphenyl 36-131

Column to be used to flag recovery values

FORM II 8270D_LL_PAH

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Matrix: Solid Level: Low Lab File ID: 1YK1714.D

Lab ID: LCS 680-358328/19-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	333	215	65	33-130	
Acenaphthylene	333	221	66	37-131	
Anthracene	333	227	68	42-146	
Benzo[a]anthracene	333	266	80	39-157	
Benzo[a]pyrene	333	264	79	41-158	
Benzo[b]fluoranthene	333	266	80	35-152	
Benzo[g,h,i]perylene	333	220	66	32-150	
Benzo[k]fluoranthene	333	236	71	38-148	
Chrysene	333	254	76	38-147	
Dibenz(a,h)anthracene	333	242	73	32-155	
Fluoranthene	333	263	79	36-147	
Fluorene	333	214	64	36-138	
Indeno[1,2,3-cd]pyrene	333	253	76	35-148	
1-Methylnaphthalene	333	227	68	36-130	
2-Methylnaphthalene	333	222	67	42-130	
Naphthalene	333	214	64	33-130	
Phenanthrene	333	234	70	40-135	
Pyrene	333	254	76	38-145	

Column to be used to flag recovery and RPD values

FORM III 8270D_LL_PAH

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Matrix: Solid Level: Low Lab File ID: 1YK1715.D

Lab ID: 680-107159-12 MS Client ID: FM0281C-CS18" MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	363	73 U	246	68	33-130	
Acenaphthylene	363	73 U	250	69	37-131	
Anthracene	363	73 U	261	72	42-146	
Benzo[a]anthracene	363	73	354	78	39-157	
Benzo[a]pyrene	363	100	352	69	41-158	
Benzo[b]fluoranthene	363	170	439	74	35-152	
Benzo[g,h,i]perylene	363	100	304	56	32-150	
Benzo[k]fluoranthene	363	59 J	326	73	38-148	
Chrysene	363	110	401	79	38-147	
Dibenz(a,h)anthracene	363	73 U	254	70	32-155	
Fluoranthene	363	140	399	70	36-147	
Fluorene	363	73 U	248	68	36-138	
Indeno[1,2,3-cd]pyrene	363	67 J	242	48	35-148	
1-Methylnaphthalene	363	73 U	266	73	36-130	
2-Methylnaphthalene	363	73 U	262	72	42-130	
Naphthalene	363	73 U	250	69	33-130	
Phenanthrene	363	81	322	66	40-135	
Pyrene	363	140	466	90	38-145	

Column to be used to flag recovery and RPD values

FORM III 8270D_LL_PAH

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Matrix: Solid Level: Low Lab File ID: 1YK1716.D

Lab ID: 680-107159-12 MSD Client ID: FM0281C-CS18" MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	363	197	54	22	50	33-130	
Acenaphthylene	363	196	54	24	50	37-131	
Anthracene	363	211	58	21	50	42-146	
Benzo[a]anthracene	363	299	62	17	50	39-157	
Benzo[a]pyrene	363	307	57	14	50	41-158	
Benzo[b]fluoranthene	363	382	58	14	50	35-152	
Benzo[g,h,i]perylene	363	228	35	29	50	32-150	
Benzo[k]fluoranthene	363	280	61	15	50	38-148	
Chrysene	363	347	65	14	50	38-147	
Dibenz(a,h)anthracene	363	190	53	28	50	32-155	
Fluoranthene	363	370	62	8	50	36-147	
Fluorene	363	203	56	20	50	36-138	
Indeno[1,2,3-cd]pyrene	363	177	30	31	50	35-148	F1
1-Methylnaphthalene	363	215	59	21	50	36-130	
2-Methylnaphthalene	363	213	59	21	50	42-130	
Naphthalene	363	195	54	25	50	33-130	
Phenanthrene	363	281	55	14	50	40-135	
Pyrene	363	384	67	19	50	38-145	

Column to be used to flag recovery and RPD values

FORM III 8270D_LL_PAH

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Lab File ID: 1YK1713.D Lab Sample ID: MB 680-358328/18-A

Matrix: Solid Date Extracted: 11/12/2014 15:01

Instrument ID: CMSY Date Analyzed: 11/18/2014 15:29

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 680-358328/19-A	1YK1714.D	11/18/2014 15:52
FM0281C-CS18" MS	680-107159-12 MS	1YK1715.D	11/18/2014 16:14
FM0281C-CS18" MSD	680-107159-12 MSD	1YK1716.D	11/18/2014 16:37
FM0281C-CS18"	680-107159-12	1YK1717.D	11/18/2014 16:59
FM0281A-CS18"	680-107159-3	1YK1720.D	11/18/2014 18:07
FM0281A-CS24"	680-107159-4	1YK1721.D	11/18/2014 18:29
FM0281D-CS12"	680-107159-7	1YK1724.D	11/18/2014 19:36
FM0281D-CS18"	680-107159-8	1YK1725.D	11/18/2014 19:58
FM0281D-CS24"	680-107159-9	1YK1726.D	11/18/2014 20:20
FM0281C-CS6"	680-107159-10	1YK1727.D	11/18/2014 20:43
FM0281C-CS12"	680-107159-11	1YK1728.D	11/18/2014 21:05
FM0281G-CS6"	680-107159-13	1YK1729.D	11/18/2014 21:27
FM0281G-CS12"	680-107159-14	1YK1730.D	11/18/2014 21:49
FM0281G-CS18"	680-107159-15	1YK1731.D	11/18/2014 22:11
FM0281G-CS24"	680-107159-16	1YK1732.D	11/18/2014 22:34
FM0281G-CSD12"	680-107159-17	1YK1733.D	11/18/2014 22:57
FM0281A-CS6"	680-107159-1	2KK1911.D	11/19/2014 15:53
FM0281A-CS12"	680-107159-2	2KK1912.D	11/19/2014 16:16
FM0281D-CS6"	680-107159-6	2KK1914.D	11/19/2014 17:01
FM0281A-CSD6"	680-107159-5	2YK2006.D	11/20/2014 16:13

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

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Lab File ID: 2KK1901.D DFTPP Injection Date: 11/19/2014

Instrument ID: CMSK DFTPP Injection Time: 12:15

Analysis Batch No.: 359503

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 442	54.7	
68	Less than 2.0 % of mass 69	0.1	(0.2)1
69	Mass 69 relative abundance	43.7	
70	Less than 2.0 % of mass 69	0.3	(0.7)1
127	10.0 - 80.0 % of mass 442	50.2	
197	Less than 2.0 % of mass 198	0.8	(1.0)2
198	Greater than 50.0 % of mass 442	79.7	
199	5.0 - 9.0 % of mass 198	5.3	(6.7)2
275	10.0 - 60.0 % of mass 442	21.6	
365	Greater than 1.0 % of mass 442	4.3	
441	Present but less than mass 443	16.4	
442	Base Peak, 100% relative abundance	100.0	
443	15.0 - 24.0 % of mass 442	20.6	

1-Value is % mass 69 2-Value is % mass 198

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 680-359503/2	2KK1902.D	11/19/2014	12:29
	IC 680-359503/3	2KK1903.D	11/19/2014	12:51
	IC 680-359503/4	2KK1904.D	11/19/2014	13:14
	IC 680-359503/5	2KK1905.D	11/19/2014	13:36
	IC 680-359503/6	2KK1906.D	11/19/2014	13:59
	IC 680-359503/7	2KK1907.D	11/19/2014	14:22
	IC 680-359503/8	2KK1908.D	11/19/2014	14:45
	ICV 680-359503/9	2KK1909.D	11/19/2014	15:07
FM0281A-CS6"	680-107159-1	2KK1911.D	11/19/2014	15:53
FM0281A-CS12"	680-107159-2	2KK1912.D	11/19/2014	16:16
FM0281D-CS6"	680-107159-6	2KK1914.D	11/19/2014	17:01

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

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Lab File ID: 1YK1701.D DFTPP Injection Date: 11/18/2014

Instrument ID: CMSY DFTPP Injection Time: 10:58

Analysis Batch No.: 359245

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 442	32.1	
68	Less than 2.0 % of mass 69	0.5	(1.5)1
69	Mass 69 relative abundance	31.7	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 442	40.1	
197	Less than 2.0 % of mass 198	0.5	(0.7)2
198	Greater than 50.0 % of mass 442	75.4	
199	5.0 - 9.0 % of mass 198	5.2	(6.8)2
275	10.0 - 60.0 % of mass 442	20.1	
365	Greater than 1.0 % of mass 442	3.5	
441	Present but less than mass 443	15.4	
442	Base Peak, 100% relative abundance	100.0	
443	15.0 - 24.0 % of mass 442	19.4	

1-Value is % mass 69 2-Value is % mass 198

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 680-359245/2	1YK1702.D	11/18/2014	11:20
	IC 680-359245/3	1YK1703.D	11/18/2014	11:42
	IC 680-359245/4	1YK1704.D	11/18/2014	12:04
	IC 680-359245/5	1YK1705.D	11/18/2014	12:26
	IC 680-359245/6	1YK1706.D	11/18/2014	12:48
	IC 680-359245/7	1YK1707.D	11/18/2014	13:10
	IC 680-359245/8	1YK1708.D	11/18/2014	13:33
	ICV 680-359245/9	1YK1709.D	11/18/2014	13:56
	MB 680-358328/18-A	1YK1713.D	11/18/2014	15:29
	LCS 680-358328/19-A	1YK1714.D	11/18/2014	15:52
FM0281C-CS18" MS	680-107159-12 MS	1YK1715.D	11/18/2014	16:14
FM0281C-CS18" MSD	680-107159-12 MSD	1YK1716.D	11/18/2014	16:37
FM0281C-CS18"	680-107159-12	1YK1717.D	11/18/2014	16:59
FM0281A-CS18"	680-107159-3	1YK1720.D	11/18/2014	18:07
FM0281A-CS24"	680-107159-4	1YK1721.D	11/18/2014	18:29
FM0281D-CS12"	680-107159-7	1YK1724.D	11/18/2014	19:36
FM0281D-CS18"	680-107159-8	1YK1725.D	11/18/2014	19:58
FM0281D-CS24"	680-107159-9	1YK1726.D	11/18/2014	20:20
FM0281C-CS6"	680-107159-10	1YK1727.D	11/18/2014	20:43
FM0281C-CS12"	680-107159-11	1YK1728.D	11/18/2014	21:05
FM0281G-CS6"	680-107159-13	1YK1729.D	11/18/2014	21:27
FM0281G-CS12"	680-107159-14	1YK1730.D	11/18/2014	21:49
FM0281G-CS18"	680-107159-15	1YK1731.D	11/18/2014	22:11

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

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Lab File ID: 1YK1701.D DFTPP Injection Date: 11/18/2014

Instrument ID: CMSY DFTPP Injection Time: 10:58

Analysis Batch No.: 359245

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 442	32.1	
68	Less than 2.0 % of mass 69	0.5	(1.5)1
69	Mass 69 relative abundance	31.7	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 442	40.1	
197	Less than 2.0 % of mass 198	0.5	(0.7)2
198	Greater than 50.0 % of mass 442	75.4	
199	5.0 - 9.0 % of mass 198	5.2	(6.8)2
275	10.0 - 60.0 % of mass 442	20.1	
365	Greater than 1.0 % of mass 442	3.5	
441	Present but less than mass 443	15.4	
442	Base Peak, 100% relative abundance	100.0	
443	15.0 - 24.0 % of mass 442	19.4	

1-Value is % mass 69 2-Value is % mass 198

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
FM0281G-CS24"	680-107159-16	1YK1732.D	11/18/2014	22:34
FM0281G-CSD12"	680-107159-17	1YK1733.D	11/18/2014	22:57

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

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Lab File ID: 2YK2002.D DFTPP Injection Date: 11/20/2014

Instrument ID: CMSY DFTPP Injection Time: 14:48

Analysis Batch No.: 359719

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 442	19.9	
68	Less than 2.0 % of mass 69	0.3	(1.6)1
69	Mass 69 relative abundance	19.2	
70	Less than 2.0 % of mass 69	0.2	(0.9)1
127	10.0 - 80.0 % of mass 442	26.5	
197	Less than 2.0 % of mass 198	0.1	(0.2)2
198	Greater than 50.0 % of mass 442	53.1	
199	5.0 - 9.0 % of mass 198	3.7	(6.9)2
275	10.0 - 60.0 % of mass 442	15.3	
365	Greater than 1.0 % of mass 442	2.6	
441	Present but less than mass 443	15.0	
442	Base Peak, 100% relative abundance	100.0	
443	15.0 - 24.0 % of mass 442	19.6	

1-Value is % mass 69 2-Value is % mass 198

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 680-359719/3	2YK2003.D	11/20/2014	15:07
FM0281A-CSD6"	680-107159-5	2YK2006.D	11/20/2014	16:13

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

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Sample No.: ICIS 680-359503/2 Date Analyzed: 11/19/2014 12:29

Instrument ID: CMSK GC Column: RXi- 5Sil MS ID: 0.25(mm)

Lab File ID (Standard): 2KK1902.D Heated Purge: (Y/N) N

Calibration ID: 35824

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		751580	3.11	404374	4.81	646042	6.36
UPPER LIMIT		1503160	3.61	808748	5.31	1292084	6.86
LOWER LIMIT		375790	2.61	202187	4.31	323021	5.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 680-359503/9		679367	3.11	348565	4.81	536799	6.36
680-107159-1	FM0281A-CS6"	586183	3.11	300981	4.81	489426	6.36
680-107159-2	FM0281A-CS12"	631575	3.11	329244	4.81	516681	6.37
680-107159-6	FM0281D-CS6"	762559	3.11	412250	4.81	676119	6.37

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 8270D_LL_PAH

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

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Sample No.: ICIS 680-359503/2 Date Analyzed: 11/19/2014 12:29

Instrument ID: CMSK GC Column: RXi- 5Sil MS ID: 0.25(mm)

Lab File ID (Standard): 2KK1902.D Heated Purge: (Y/N) N

Calibration ID: 35824

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		658322	9.20	479342	10.52		
UPPER LIMIT		1316644	9.70	958684	11.02		
LOWER LIMIT		329161	8.70	239671	10.02		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 680-359503/9		492124	9.20	336254	10.52		
680-107159-1	FM0281A-CS6"	512442	9.20	367709	10.52		
680-107159-2	FM0281A-CS12"	592711	9.20	443917	10.52		
680-107159-6	FM0281D-CS6"	657507	9.20	468475	10.52		

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 8270D_LL_PAH

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

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Sample No.: ICIS 680-359245/2 Date Analyzed: 11/18/2014 11:20

Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25(mm)

Lab File ID (Standard): 1YK1702.D Heated Purge: (Y/N) N

Calibration ID: 35803

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		394405	4.26	207557	6.11	342806	7.77
UPPER LIMIT		788810	4.76	415114	6.61	685612	8.27
LOWER LIMIT		197203	3.76	103779	5.61	171403	7.27
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 680-359245/9		422162	4.26	244045	6.11	408397	7.77
MB 680-358328/18-A		508604	4.25	288539	6.10	501251	7.77
LCS 680-358328/19-A		475745	4.25	261785	6.11	456535	7.77
680-107159-12 MS	FM0281C-CS18" MS	518286	4.26	275428	6.11	473633	7.77
680-107159-12 MSD	FM0281C-CS18" MSD	595860	4.26	337852	6.11	593809	7.77
680-107159-12	FM0281C-CS18"	557305	4.26	315691	6.11	550578	7.77
680-107159-3	FM0281A-CS18"	652465	4.26	380442	6.11	669926	7.77
680-107159-4	FM0281A-CS24"	530922	4.25	303672	6.10	534592	7.77
680-107159-7	FM0281D-CS12"	579905	4.26	330492	6.11	561487	7.77
680-107159-8	FM0281D-CS18"	494144	4.26	287118	6.11	493178	7.77
680-107159-9	FM0281D-CS24"	490549	4.25	280495	6.10	484557	7.77
680-107159-10	FM0281C-CS6"	480251	4.26	276058	6.11	482181	7.77
680-107159-11	FM0281C-CS12"	474778	4.26	276177	6.11	470238	7.77
680-107159-13	FM0281G-CS6"	445826	4.26	254810	6.11	445526	7.77
680-107159-14	FM0281G-CS12"	434700	4.26	240594	6.11	420827	7.77
680-107159-15	FM0281G-CS18"	461346	4.26	265053	6.11	458928	7.77
680-107159-16	FM0281G-CS24"	462048	4.25	257615	6.10	443012	7.77
680-107159-17	FM0281G-CSD12"	458340	4.26	263961	6.11	450687	7.77

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 8270D_LL_PAH

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

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Sample No.: ICIS 680-359245/2 Date Analyzed: 11/18/2014 11:20

Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25(mm)

Lab File ID (Standard): 1YK1702.D Heated Purge: (Y/N) N

Calibration ID: 35803

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		330944	10.66	264820	12.27		
UPPER LIMIT		661888	11.16	529640	12.77		
LOWER LIMIT		165472	10.16	132410	11.77		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 680-359245/9		380798	10.66	315696	12.27		
MB 680-358328/18-A		474254	10.66	381721	12.27		
LCS 680-358328/19-A		449527	10.66	398066	12.27		
680-107159-12 MS	FM0281C-CS18" MS	356884	10.66	245436	12.27		
680-107159-12 MSD	FM0281C-CS18" MSD	501616	10.66	335548	12.27		
680-107159-12	FM0281C-CS18"	432965	10.66	300647	12.27		
680-107159-3	FM0281A-CS18"	528022	10.66	341918	12.27		
680-107159-4	FM0281A-CS24"	443410	10.66	298916	12.27		
680-107159-7	FM0281D-CS12"	406627	10.66	261007	12.28		
680-107159-8	FM0281D-CS18"	358633	10.66	234607	12.28		
680-107159-9	FM0281D-CS24"	360289	10.66	246631	12.28		
680-107159-10	FM0281C-CS6"	355142	10.66	225149	12.28		
680-107159-11	FM0281C-CS12"	344395	10.66	256454	12.28		
680-107159-13	FM0281G-CS6"	336572	10.66	220837	12.28		
680-107159-14	FM0281G-CS12"	332827	10.66	217744	12.28		
680-107159-15	FM0281G-CS18"	345141	10.66	232864	12.28		
680-107159-16	FM0281G-CS24"	325380	10.66	222716	12.28		
680-107159-17	FM0281G-CSD12"	321102	10.66	206179	12.28		

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 8270D_LL_PAH

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

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Sample No.: CCVIS 680-359719/3 Date Analyzed: 11/20/2014 15:07

Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25(mm)

Lab File ID (Standard): 2YK2003.D Heated Purge: (Y/N) N

Calibration ID: 35803

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		299717	3.98	160881	5.80	273666	7.45
UPPER LIMIT		599434	4.48	321762	6.30	547332	7.95
LOWER LIMIT		149859	3.48	80441	5.30	136833	6.95
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-107159-5	FM0281A-CSD6"	218942	3.98	116303	5.80	205262	7.45

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 8270D_LL_PAH

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

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Sample No.: CCVIS 680-359719/3 Date Analyzed: 11/20/2014 15:07

Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25(mm)

Lab File ID (Standard): 2YK2003.D Heated Purge: (Y/N) N

Calibration ID: 35803

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		276838	10.34	241637	11.83		
UPPER LIMIT		553676	10.84	483274	12.33		
LOWER LIMIT		138419	9.84	120819	11.33		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-107159-5	FM0281A-CSD6"	211311	10.34	179438	11.84		

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 8270D_LL_PAH

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281A-CS6" | Lab Sample ID: 680-107159-1

Matrix: Solid | Lab File ID: 2KK1911.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 08:31

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.07(g) | Date Analyzed: 11/19/2014 15:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

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

% Moisture: 11.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	690		150	75
208-96-8	Acenaphthylene	150	U	150	75
120-12-7	Anthracene	1800		150	75
56-55-3	Benzo[a]anthracene	6400		150	75
50-32-8	Benzo[a]pyrene	5200		150	27
205-99-2	Benzo[b]fluoranthene	7100		150	75
191-24-2	Benzo[g,h,i]perylene	3200		150	75
207-08-9	Benzo[k]fluoranthene	3400		150	45
218-01-9	Chrysene	6100		150	75
53-70-3	Dibenz(a,h)anthracene	1100		150	75
206-44-0	Fluoranthene	12000		150	75
86-73-7	Fluorene	670		150	75
193-39-5	Indeno[1,2,3-cd]pyrene	3000		150	75
90-12-0	1-Methylnaphthalene	140	J	150	70
91-57-6	2-Methylnaphthalene	170		150	75
91-20-3	Naphthalene	370		150	75
85-01-8	Phenanthrene	8100		150	54
129-00-0	Pyrene	9400		150	75

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Sample Type:	Client				
Inject. Date:	19-Nov-2014 15:53:30	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Sample Info:	680-107159-B-1-A 1:20				
Misc. Info.:	680-0014922-011				
Operator ID:	RM	Instrument ID:	CMSK		
Method:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m				
Limit Group:	8270D_LL_PAH				
Last Update:	20-Nov-2014 10:08:41	Calib Date:	19-Nov-2014 14:45:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D				
Column 1 :	Restek RXi-5Sil MS (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK022				
First Level Reviewer: webbk		Date:	20-Nov-2014 08:13:25		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.114	3.114	0.000	100	586183	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	93	300981	2.00	
* 3 Phenanthrene-d10	188	6.363	6.363	0.000	99	489426	2.00	
* 4 Chrysene-d12	240	9.195	9.196	-0.001	99	512442	2.00	
* 5 Perylene-d12	264	10.523	10.518	0.005	98	367709	2.00	
7 Naphthalene	128	3.132	3.138	-0.006	98	161506	0.4914	
9 2-Methylnaphthalene	142	3.772	3.778	-0.006	83	45592	0.2278	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	95	34926	0.1917	
11 Acenaphthylene	152	4.654	4.654	0.000	97	30823	0.0968	
12 Acenaphthene	153	4.836	4.842	-0.006	96	171944	0.9091	
14 Fluorene	166	5.376	5.382	-0.006	96	198146	0.8913	
15 Phenanthrene	178	6.393	6.393	0.000	97	3178343	10.7	
16 Anthracene	178	6.446	6.446	0.000	98	714597	2.35	
17 Fluoranthene	202	7.680	7.674	0.006	98	5773089	16.5	
18 Pyrene	202	7.915	7.909	0.006	96	4475262	12.5	
19 Benzo[a]anthracene	228	9.190	9.190	0.000	98	2408536	8.42	
20 Chrysene	228	9.225	9.225	0.000	98	2169355	8.07	
21 Benzo[b]fluoranthene	252	10.206	10.200	0.006	98	2403017	9.36	
22 Benzo[k]fluoranthene	252	10.224	10.224	0.000	99	1108969	4.55	M
23 Benzo[a]pyrene	252	10.476	10.471	0.006	97	1443283	6.87	
24 Indeno[1,2,3-cd]pyrene	276	11.393	11.399	-0.006	99	738216	3.99	
25 Dibenz(a,h)anthracene	278	11.416	11.422	-0.006	93	201578	1.47	
26 Benzo[g,h,i]perylene	276	11.634	11.634	0.000	98	654706	4.24	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

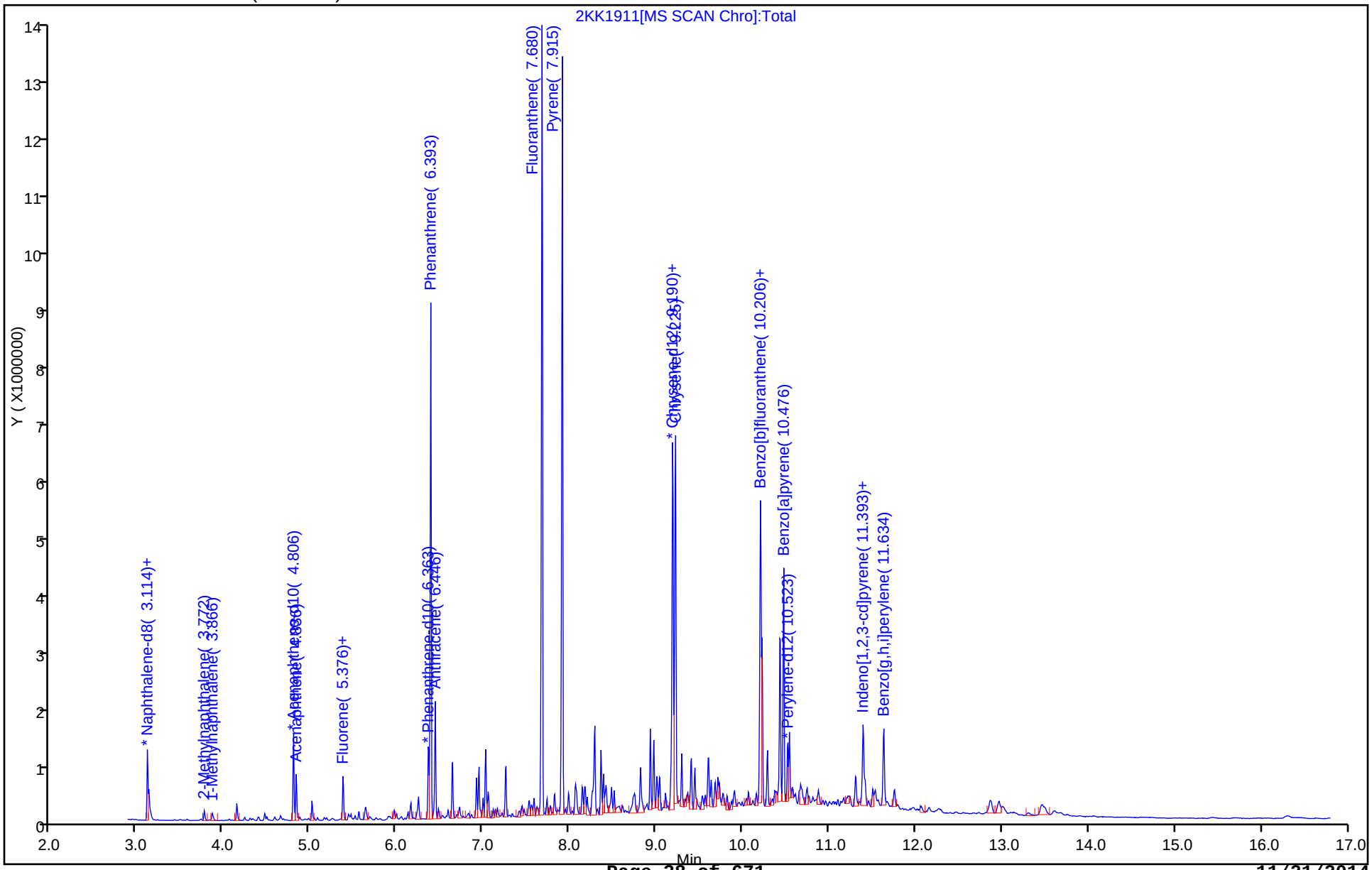
SM-LLISTD_00114	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Nov-2014 10:09:27 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1	Worklist Smp#:	11
Client ID:	FM0281A-CS6"				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	11
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)

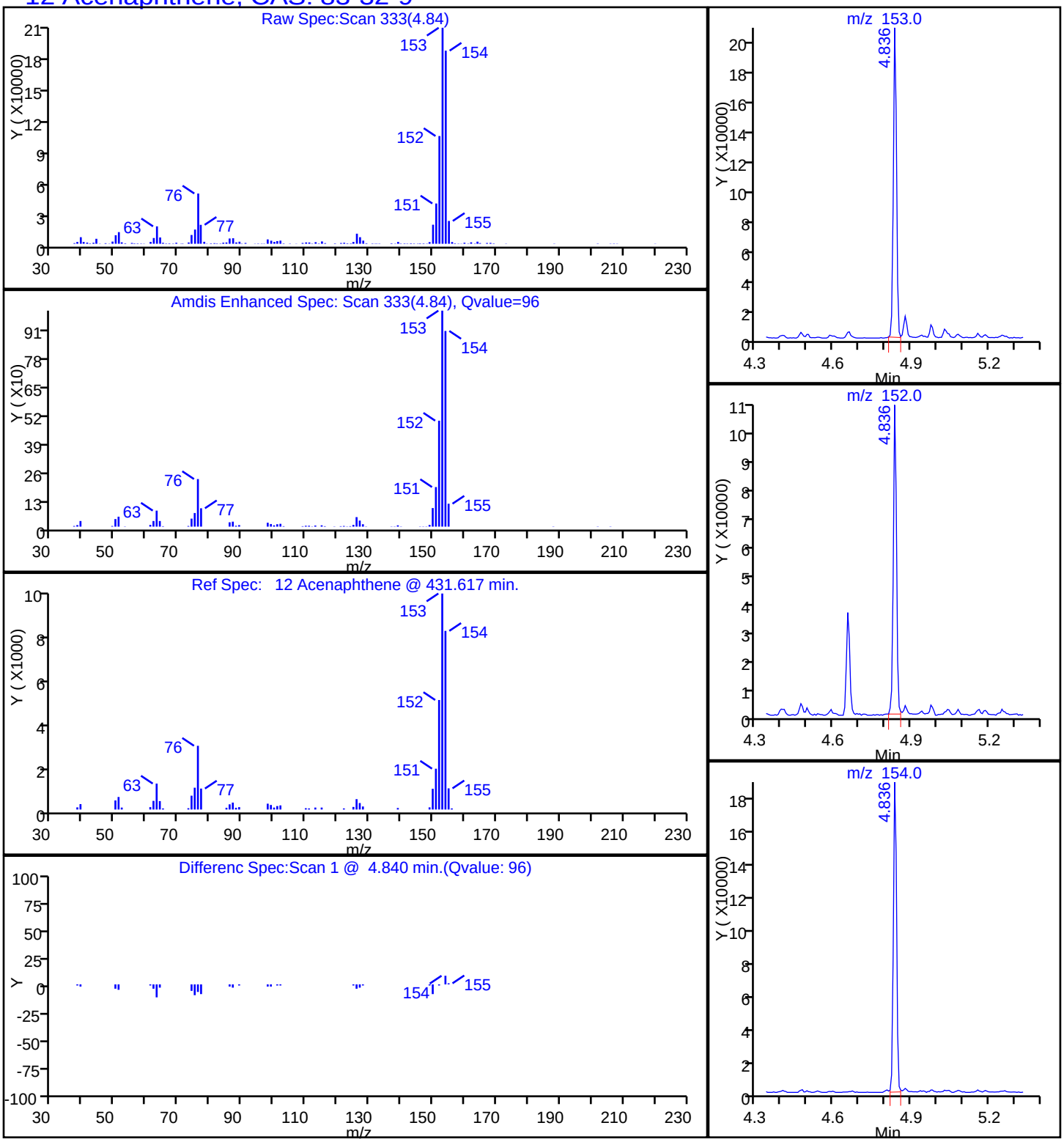


Report Date: 20-Nov-2014 10:09:27 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

12 Acenaphthene, CAS: 83-32-9

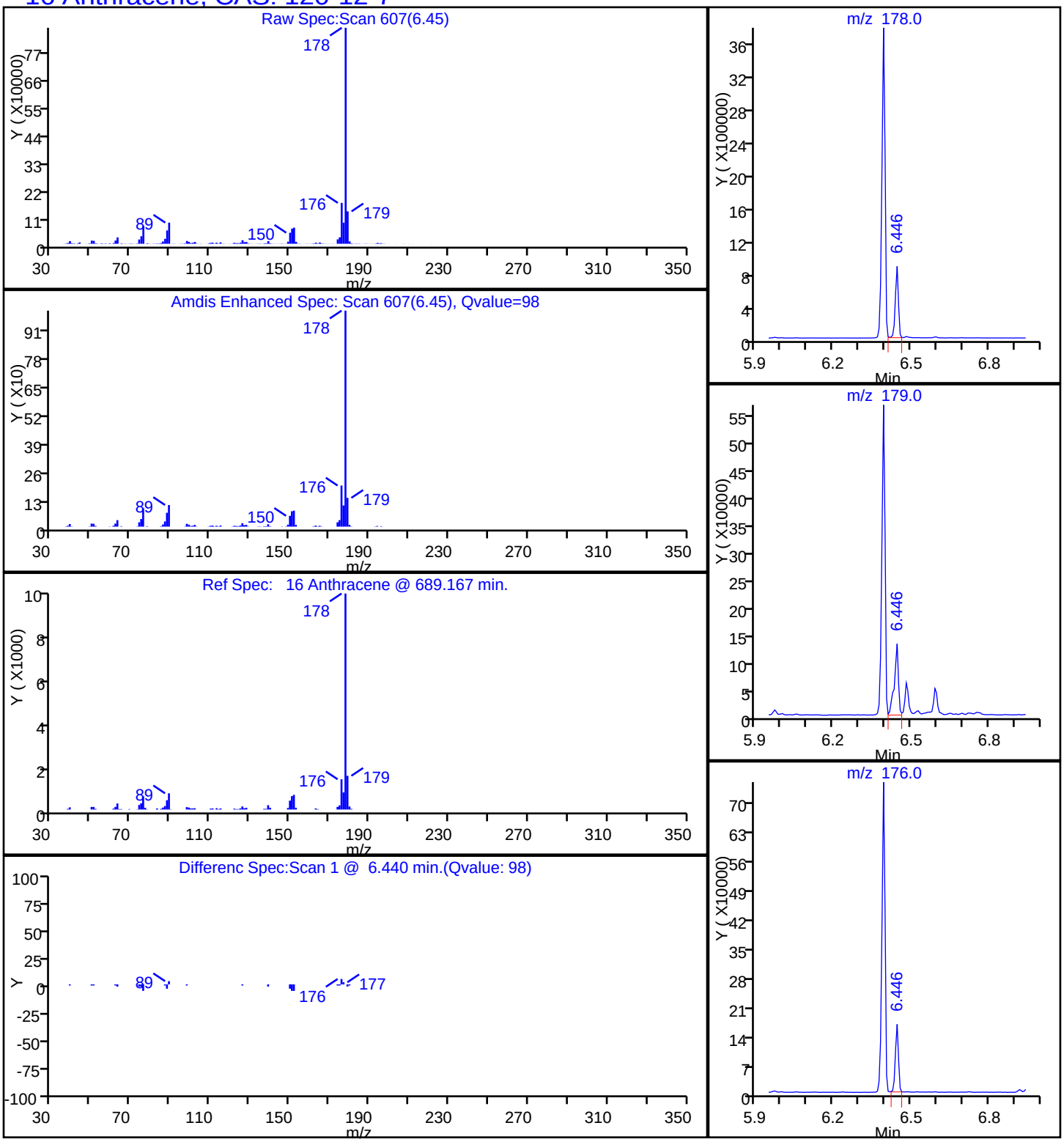


Report Date: 20-Nov-2014 10:09:27 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

16 Anthracene, CAS: 120-12-7

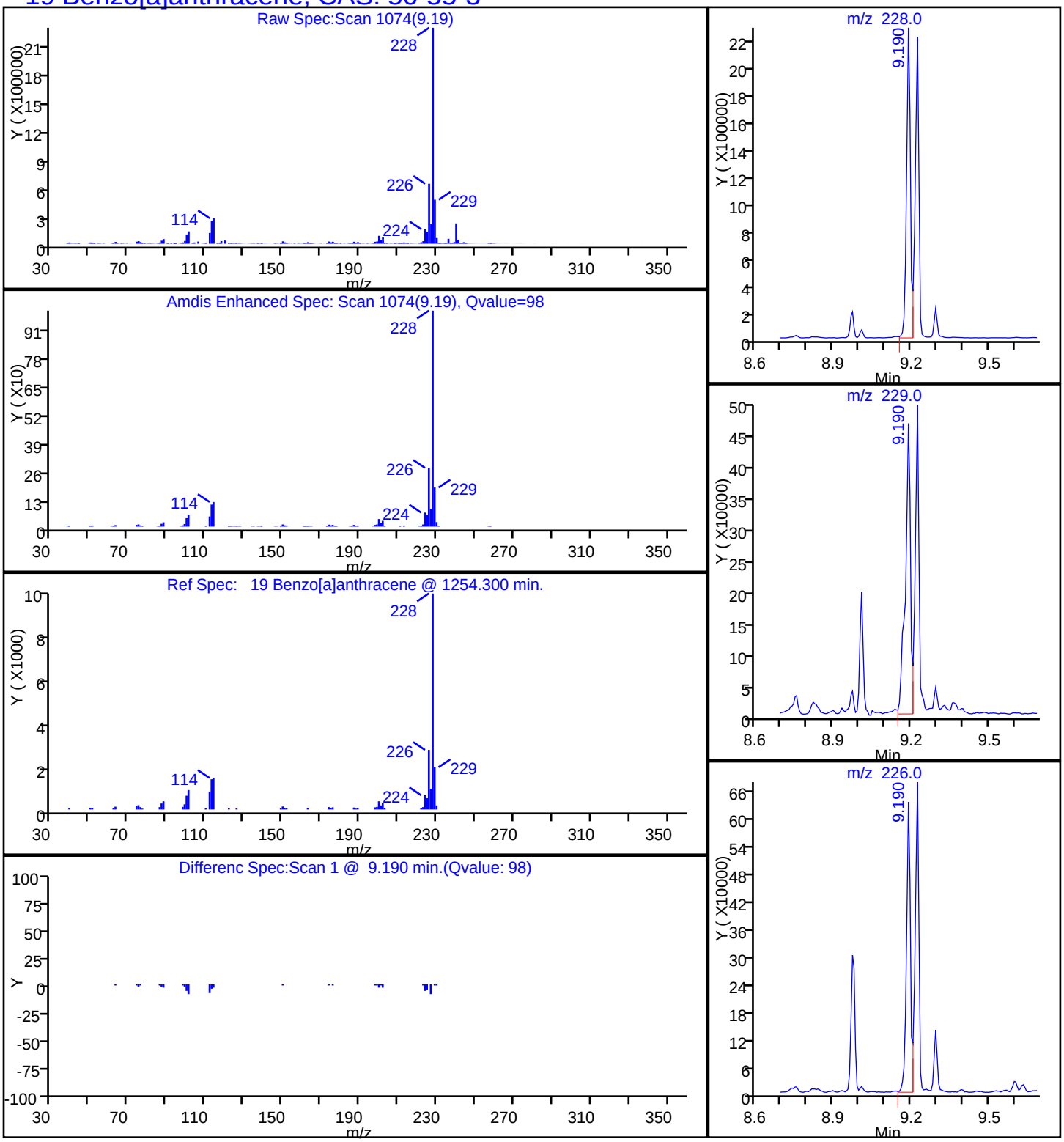


Report Date: 20-Nov-2014 10:09:27 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 Benzo[a]anthracene, CAS: 56-55-3

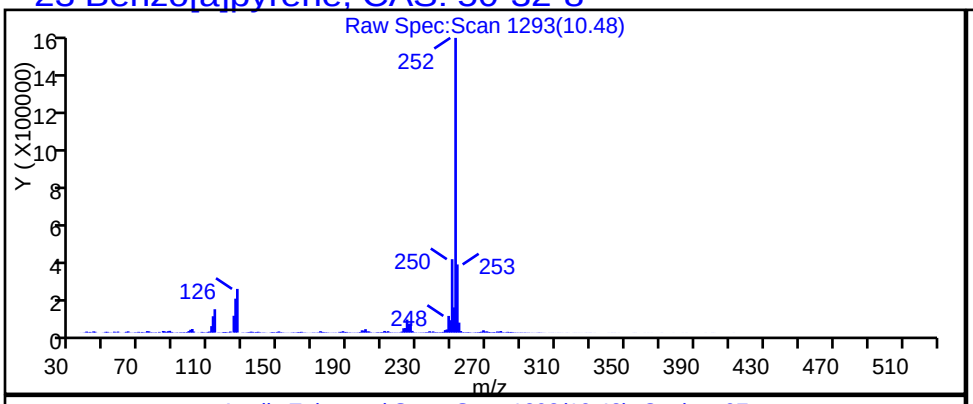


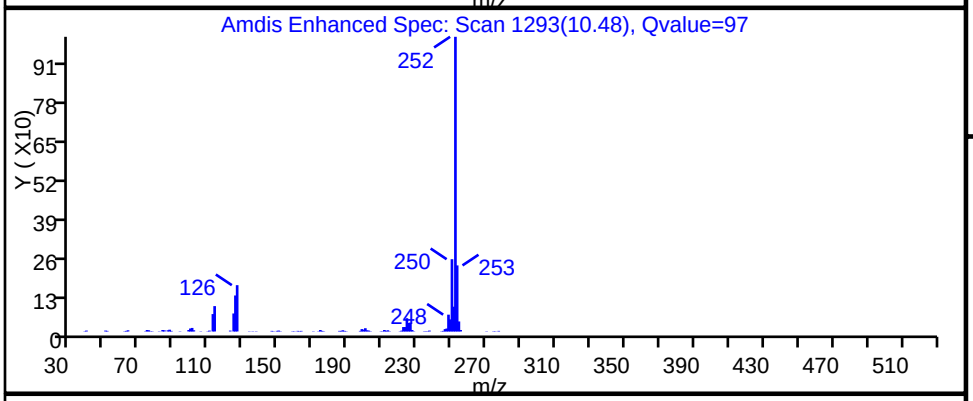
Report Date: 20-Nov-2014 10:09:27 Chrom Revision: 2.2 06-Nov-2014 14:50:32

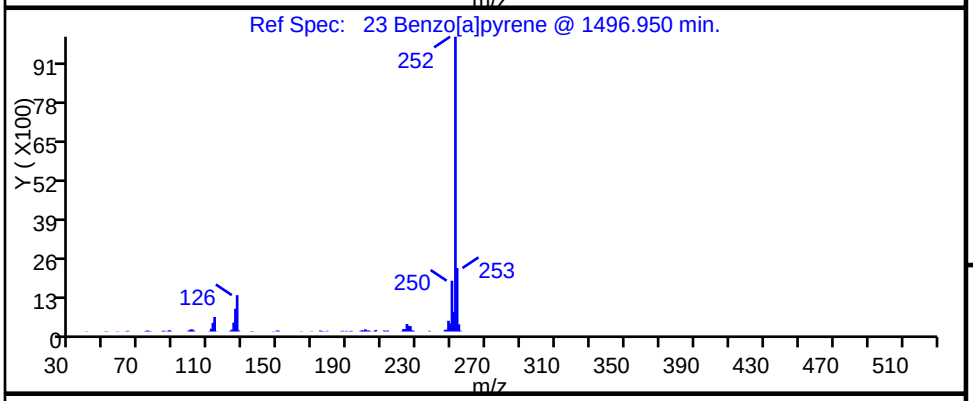
TestAmerica Savannah

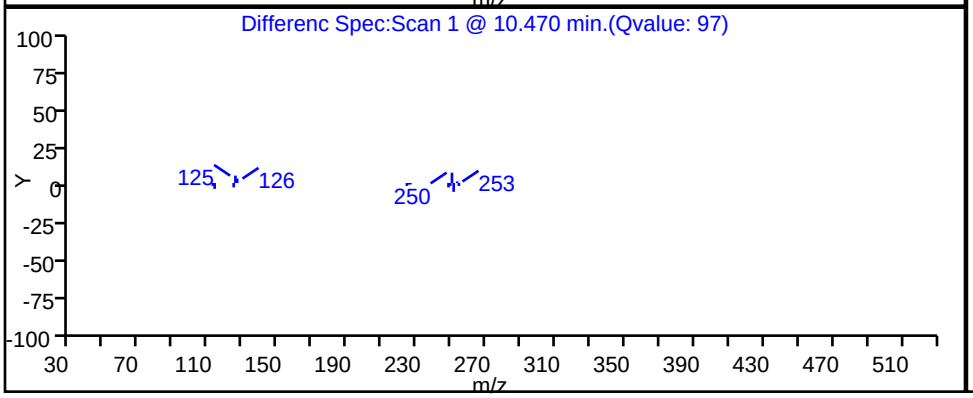
Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

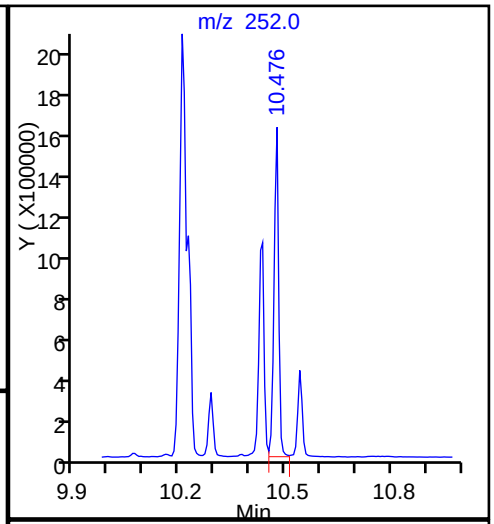
23 Benzo[a]pyrene, CAS: 50-32-8

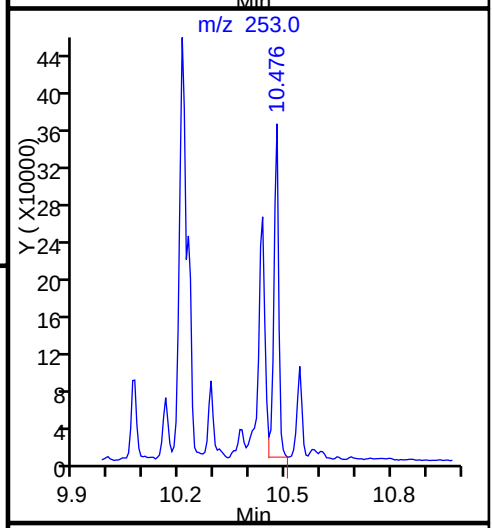


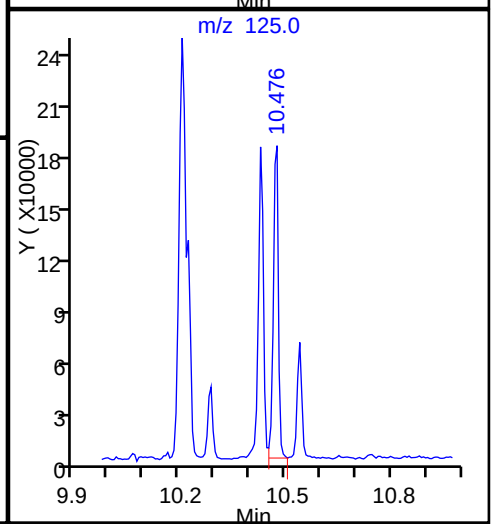










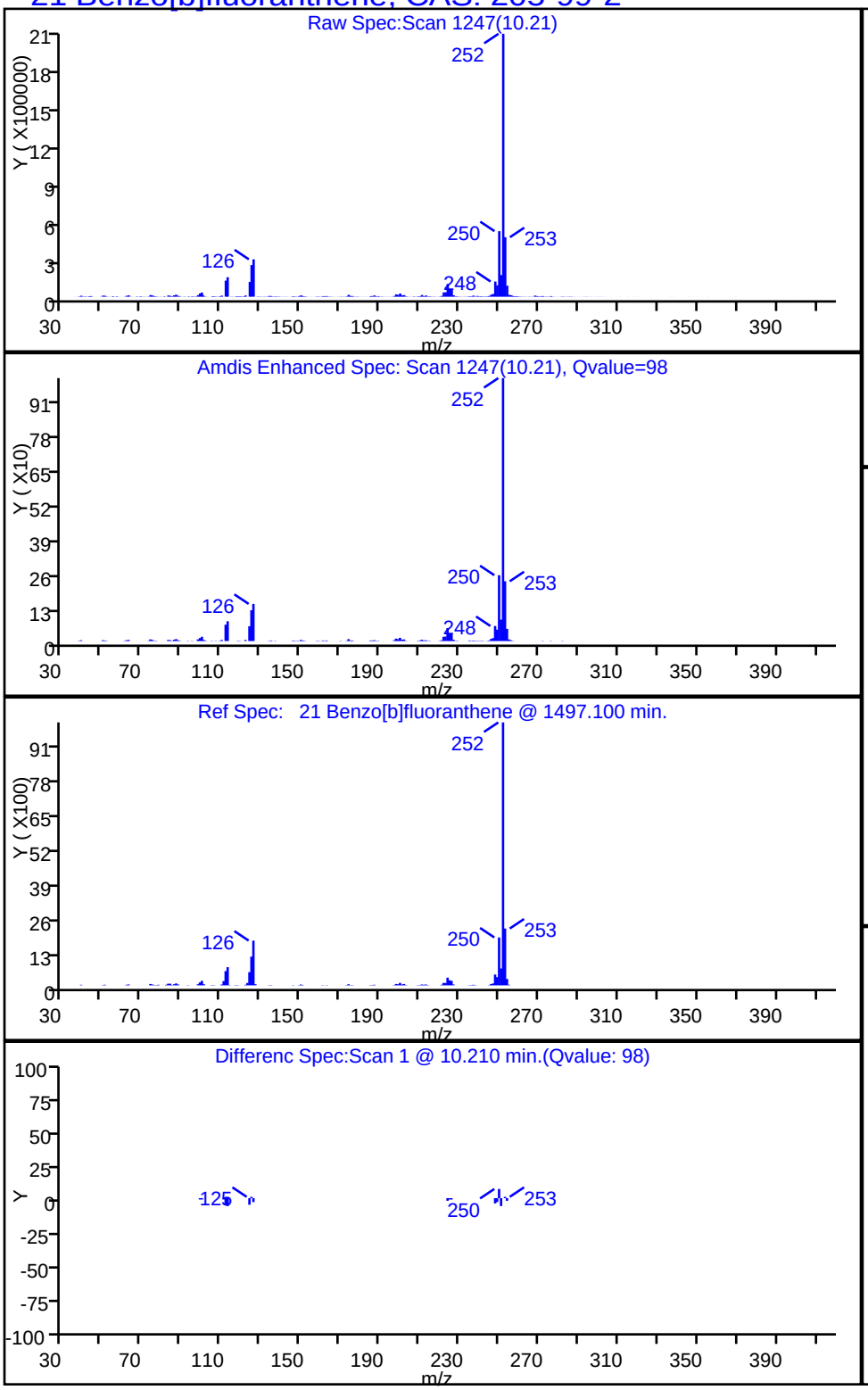


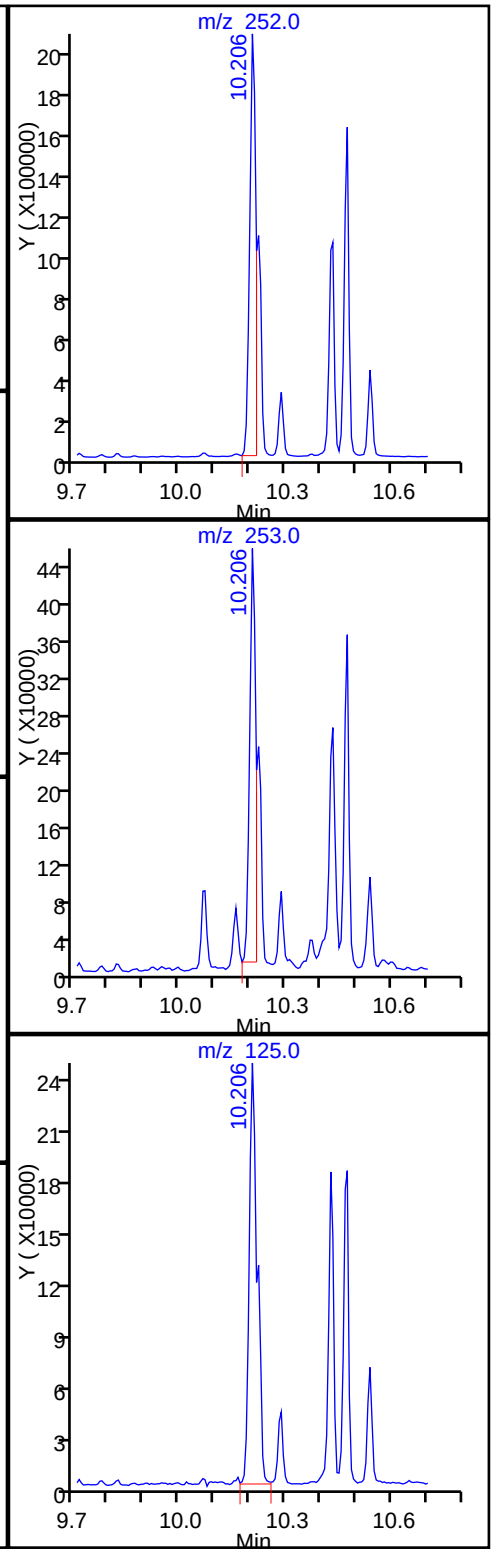
Report Date: 20-Nov-2014 10:09:27 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

21 Benzo[b]fluoranthene, CAS: 205-99-2



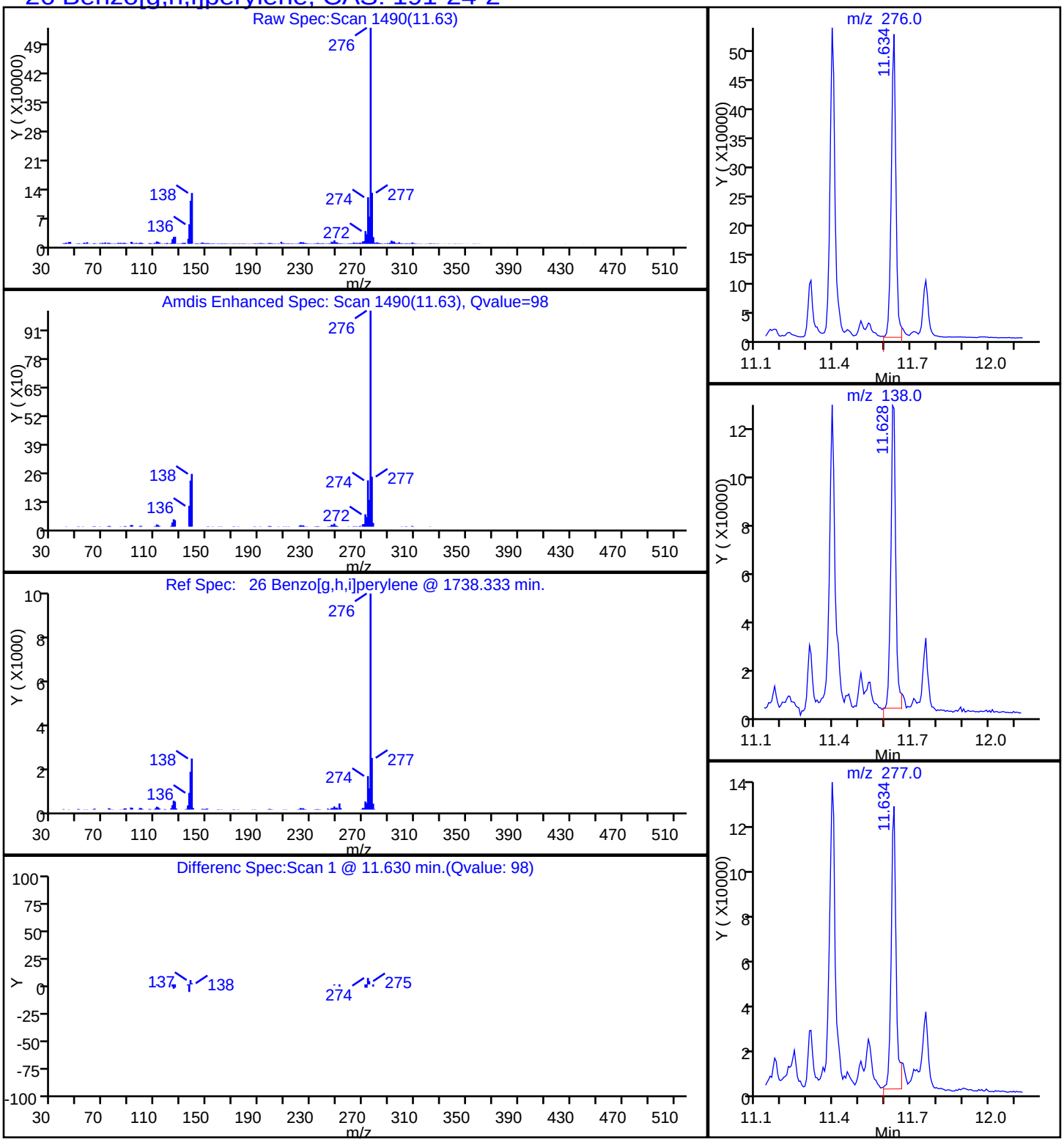


Report Date: 20-Nov-2014 10:09:27 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

26 Benzo[g,h,i]perylene, CAS: 191-24-2

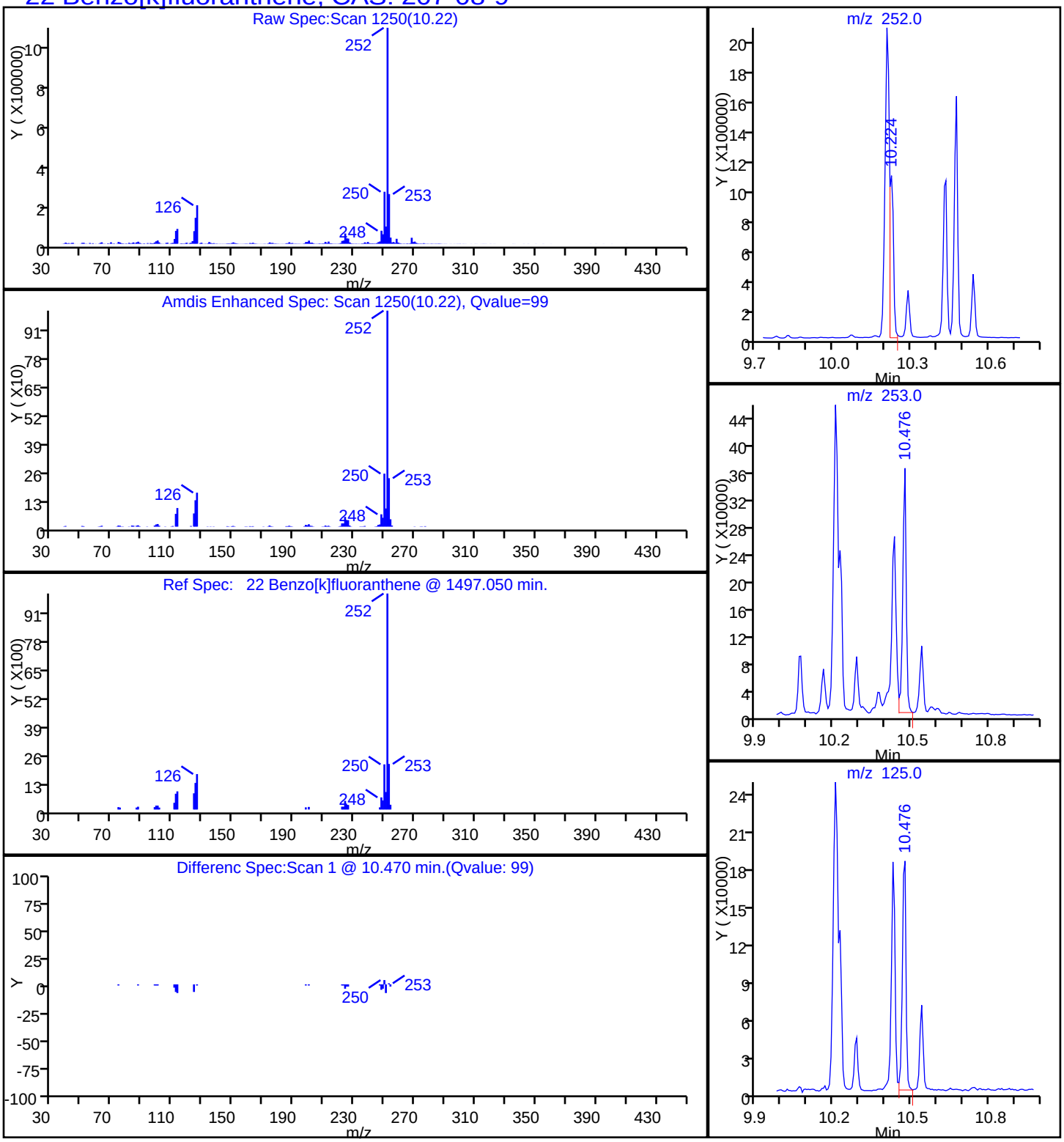


Report Date: 20-Nov-2014 10:09:27 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Benzo[k]fluoranthene, CAS: 207-08-9

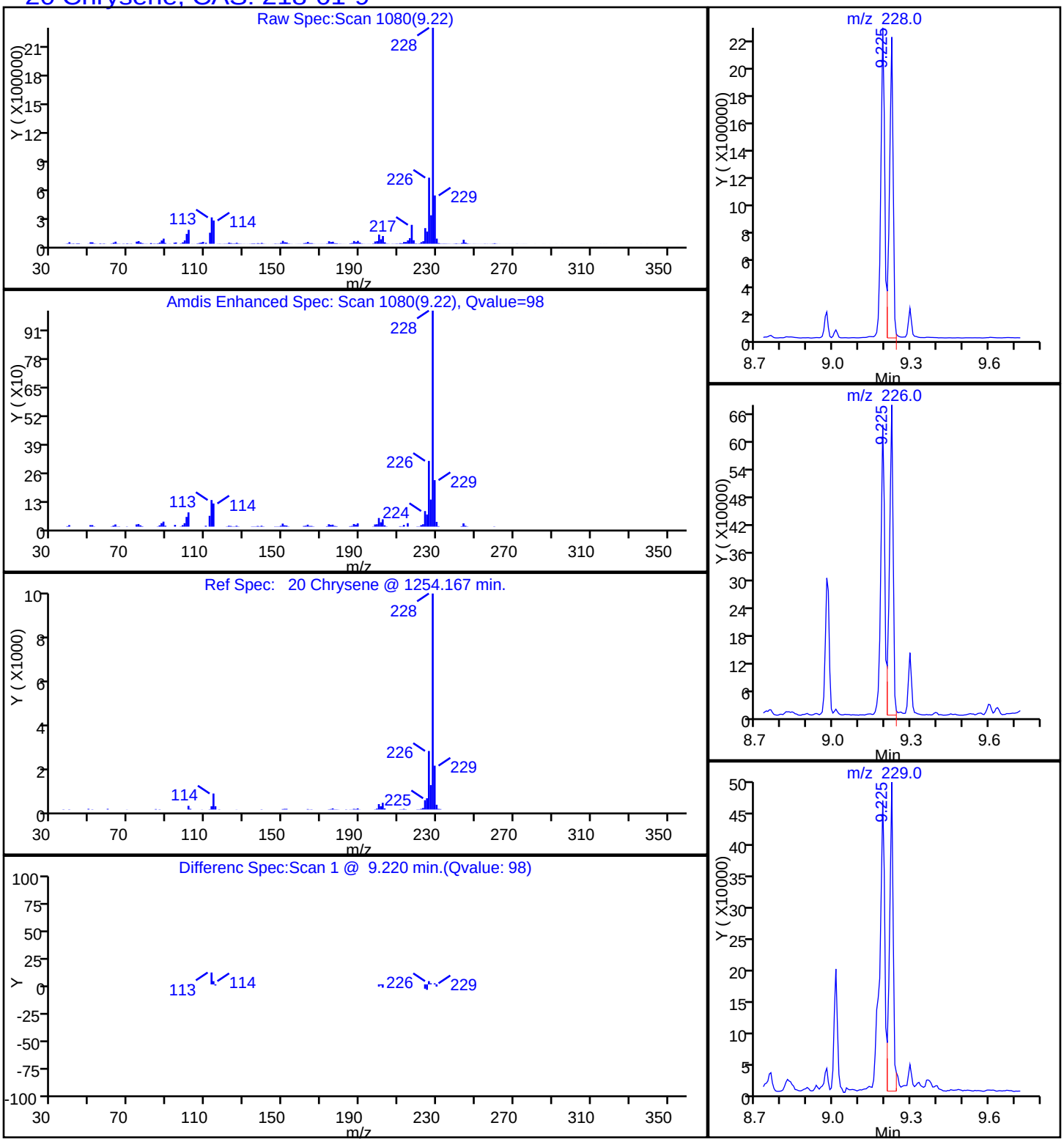


Report Date: 20-Nov-2014 10:09:27 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Chrysene, CAS: 218-01-9

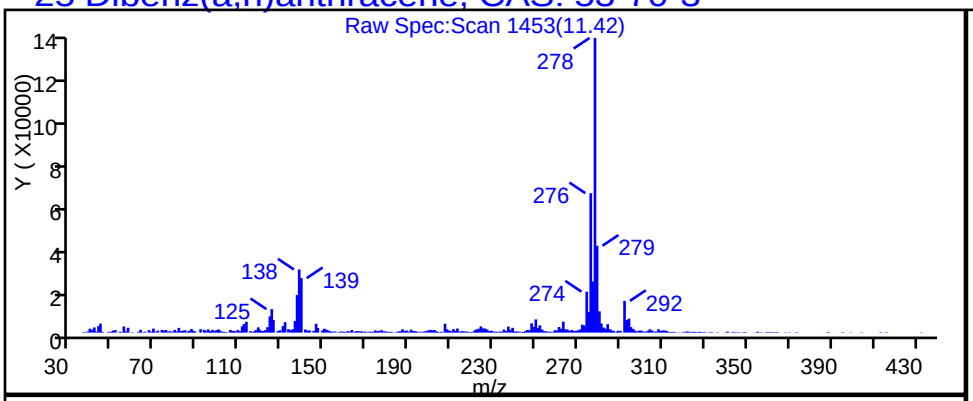


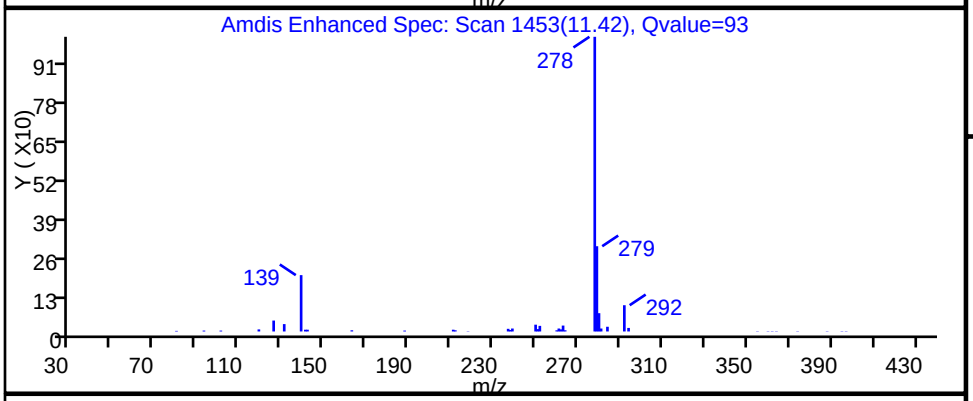
Report Date: 20-Nov-2014 10:09:27 Chrom Revision: 2.2 06-Nov-2014 14:50:32

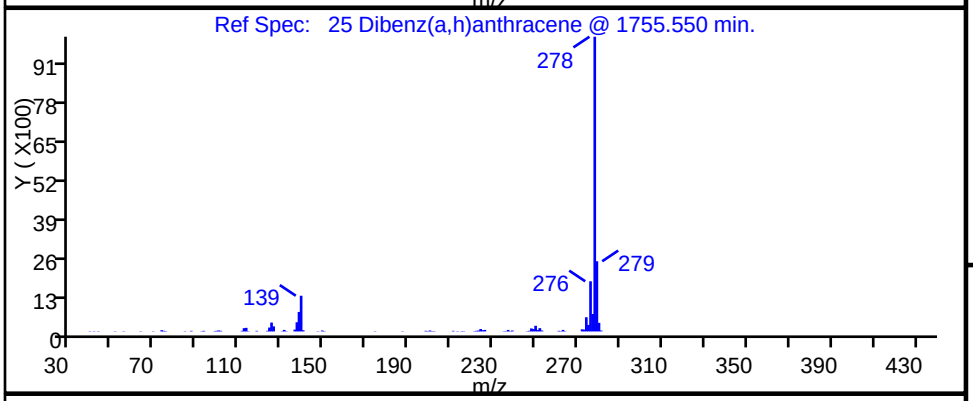
TestAmerica Savannah

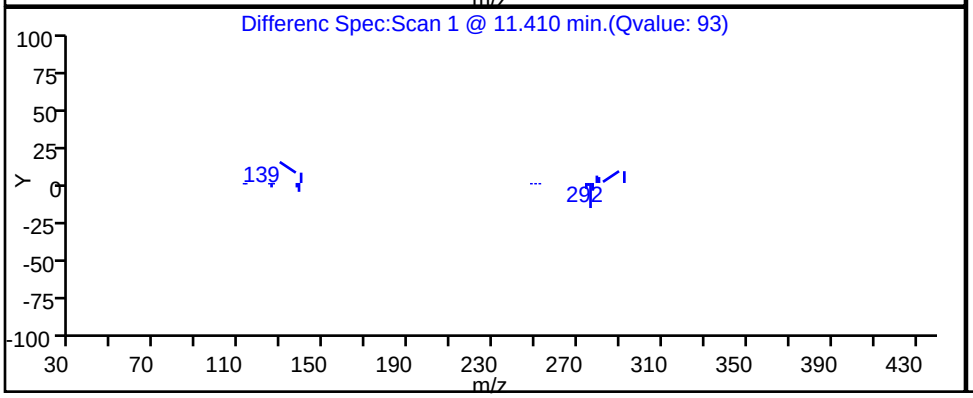
Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

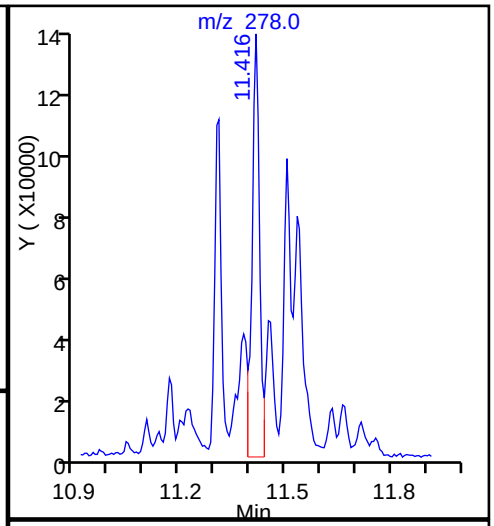
25 Dibenz(a,h)anthracene, CAS: 53-70-3

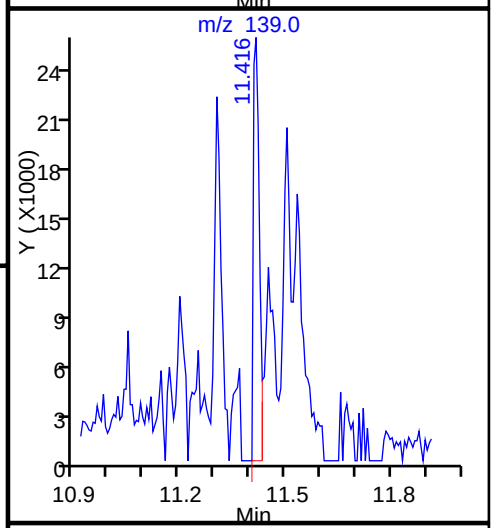


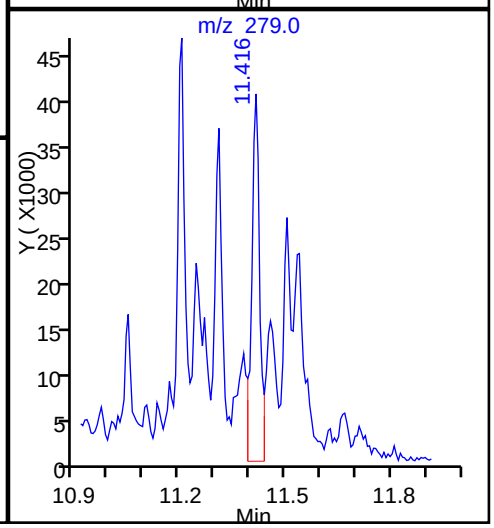












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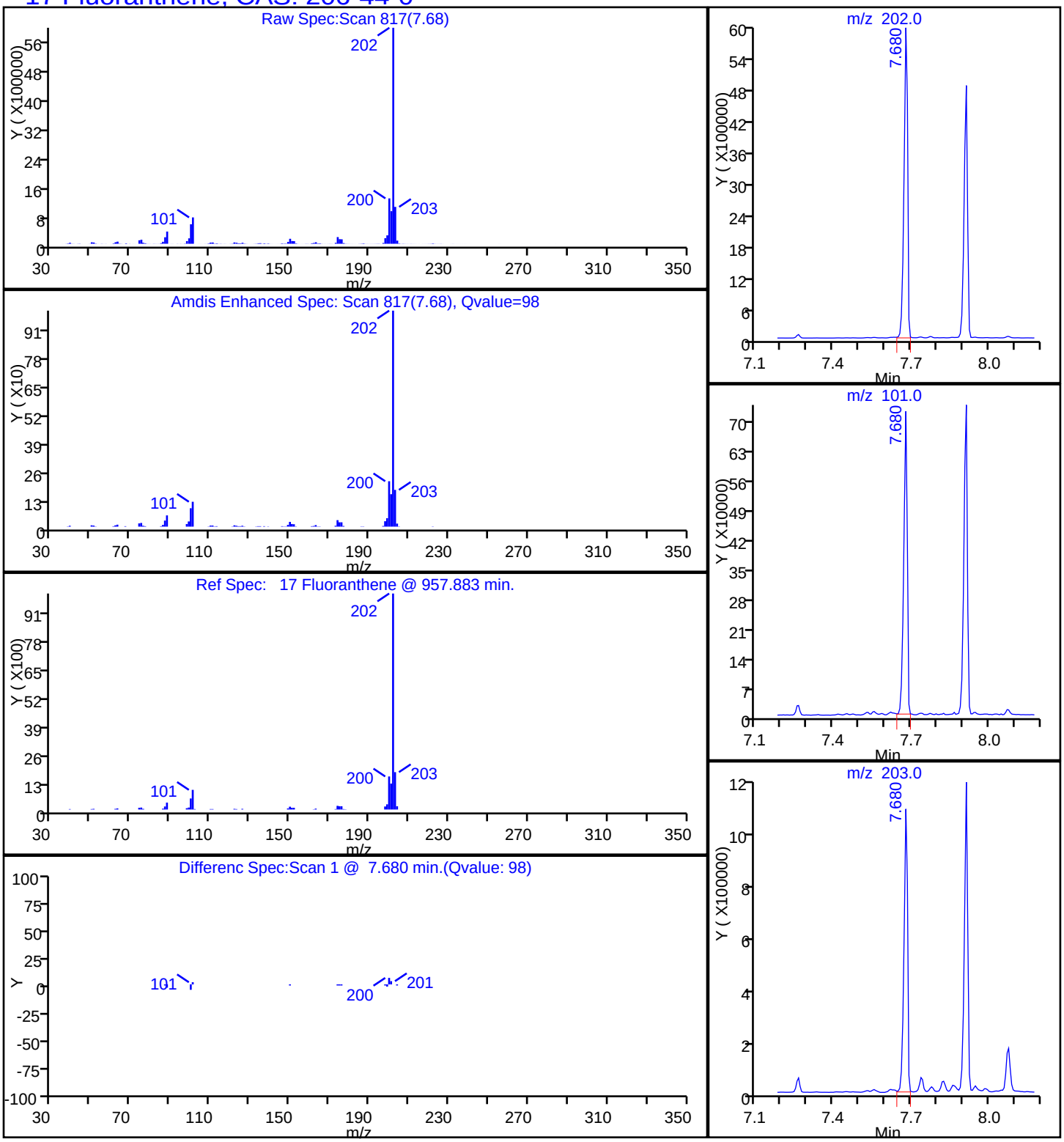
Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Fluoranthene, CAS: 206-44-0

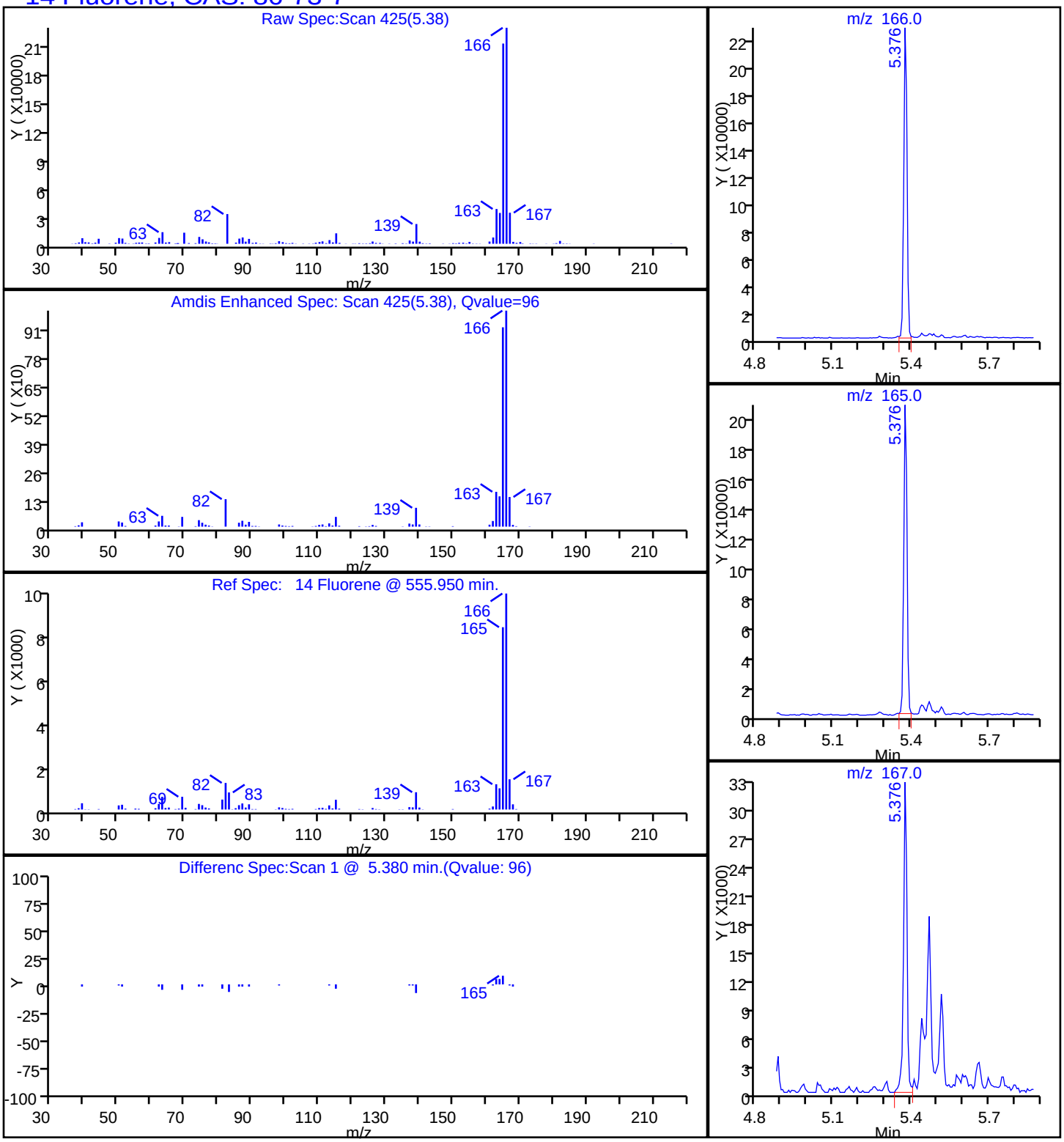


Report Date: 20-Nov-2014 10:09:27 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

14 Fluorene, CAS: 86-73-7



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TestAmerica Savannah

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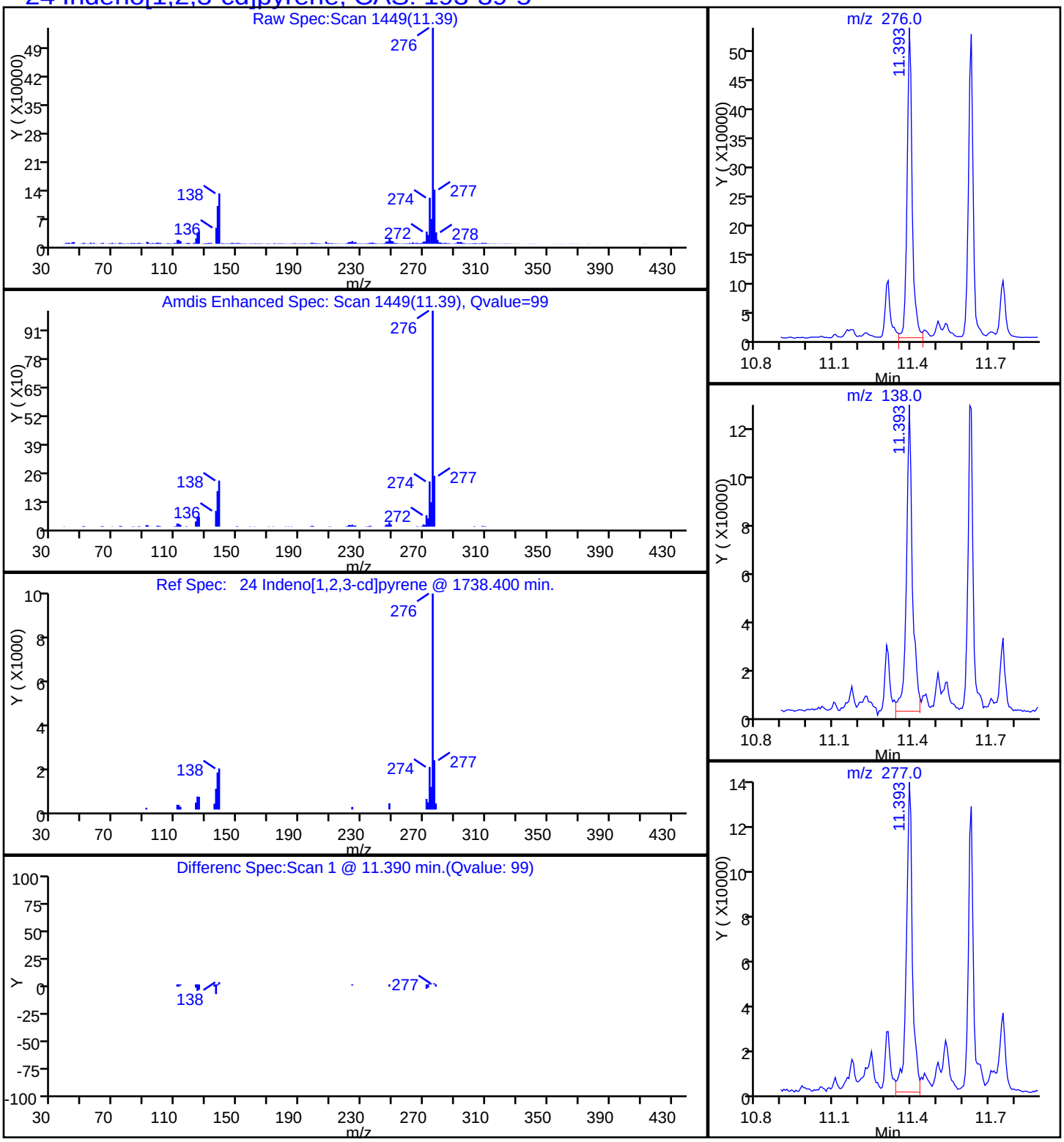
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



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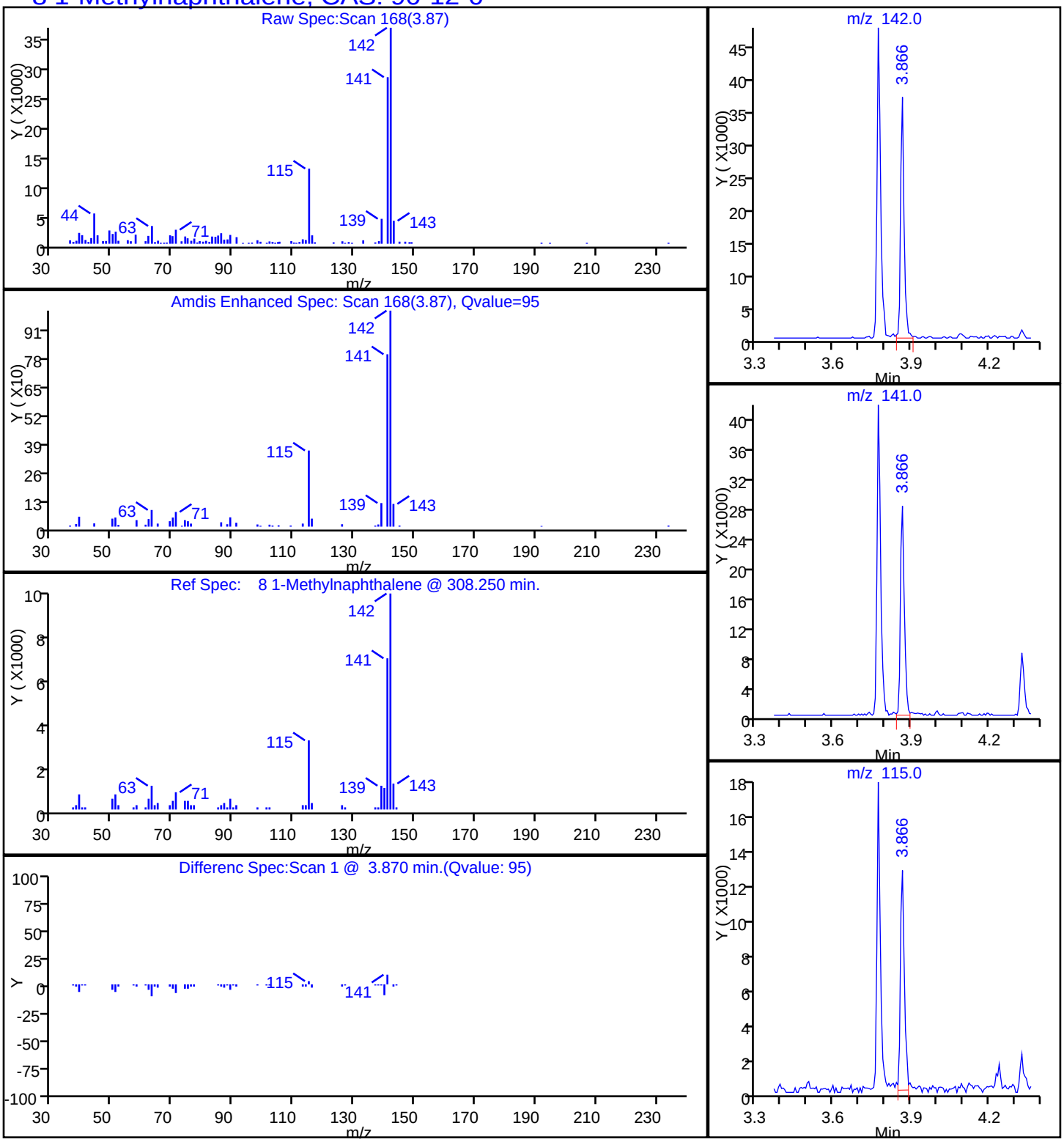
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

8 1-Methylnaphthalene, CAS: 90-12-0



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TestAmerica Savannah

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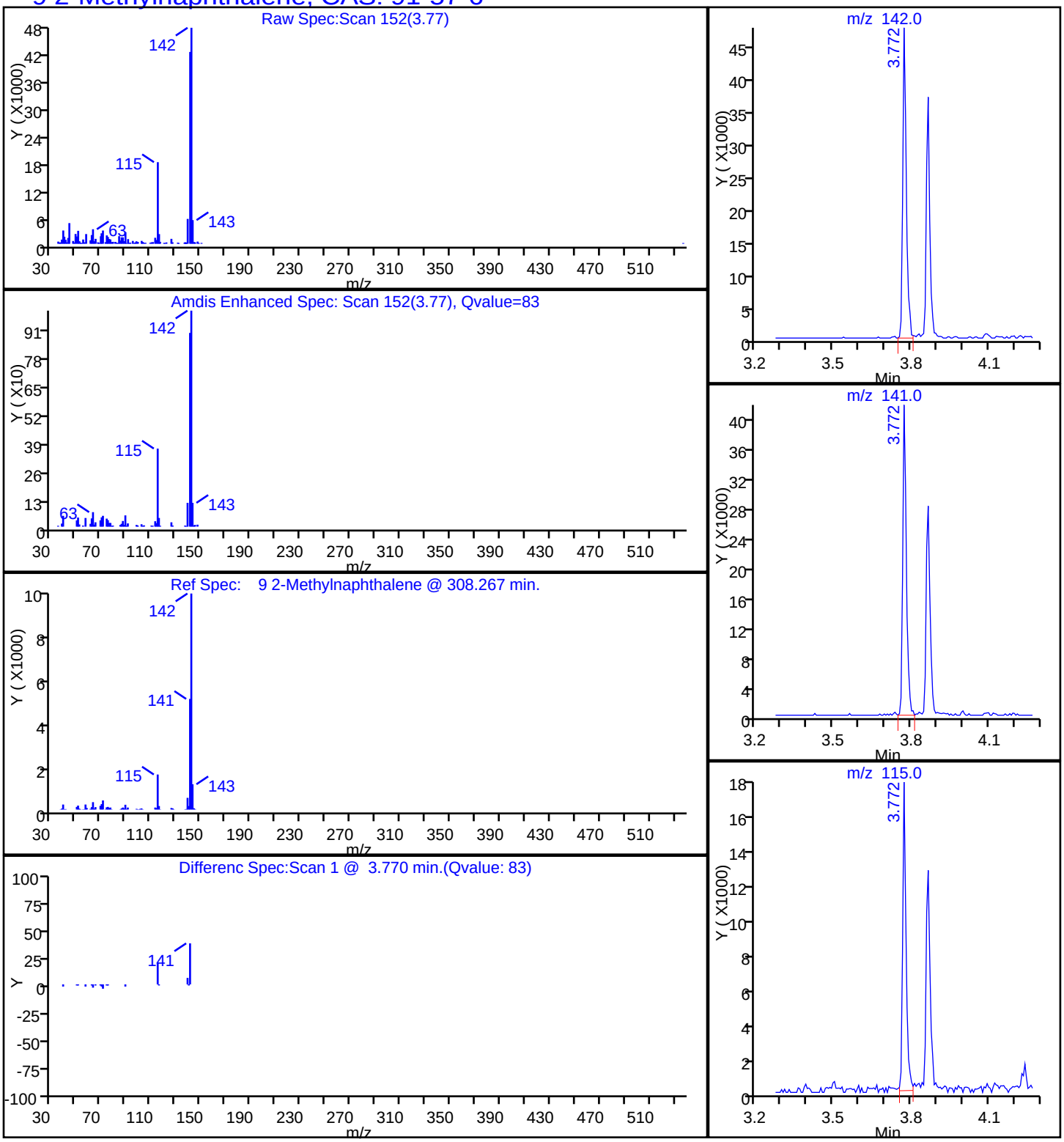
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

9 2-Methylnaphthalene, CAS: 91-57-6



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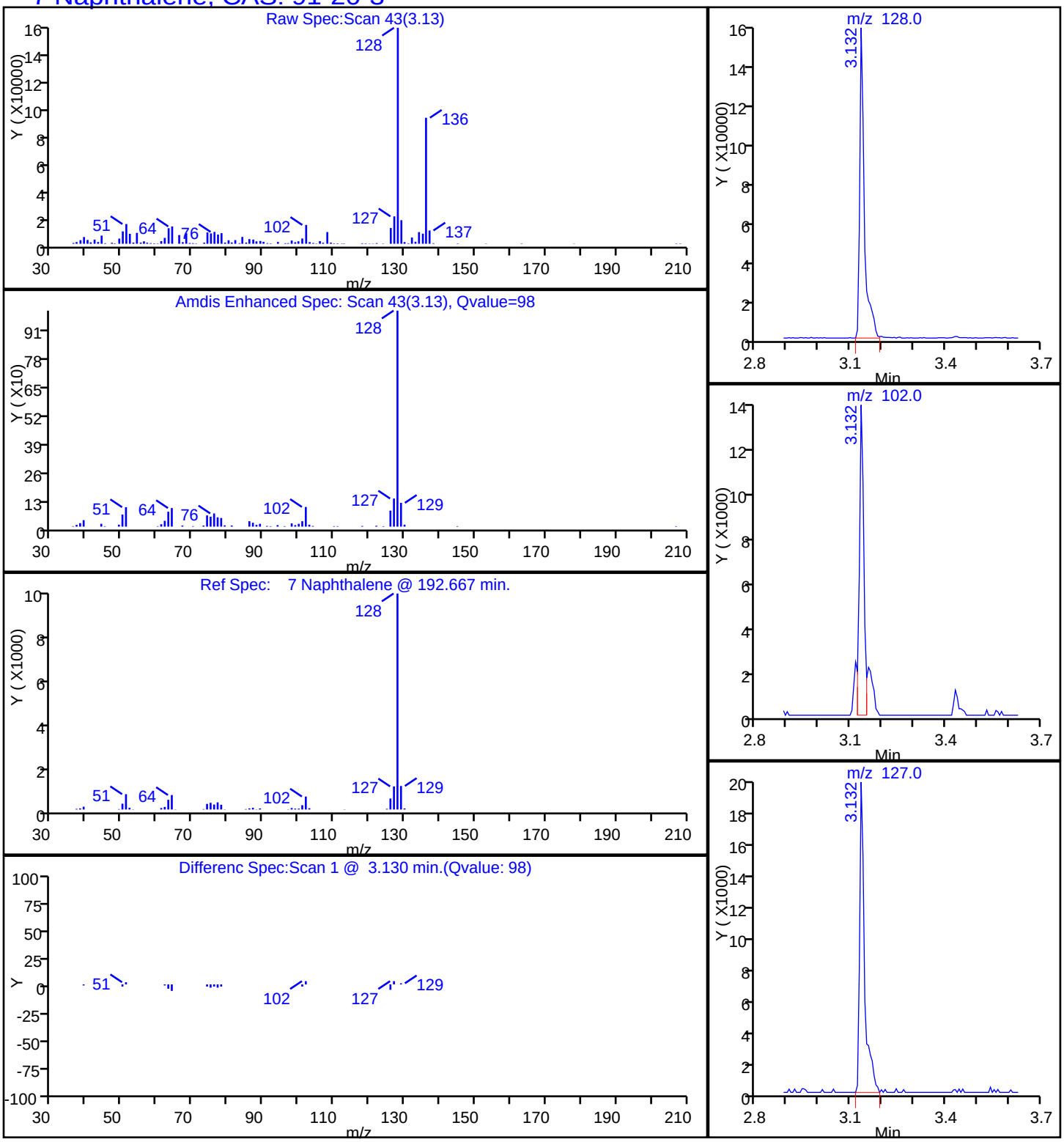
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Naphthalene, CAS: 91-20-3



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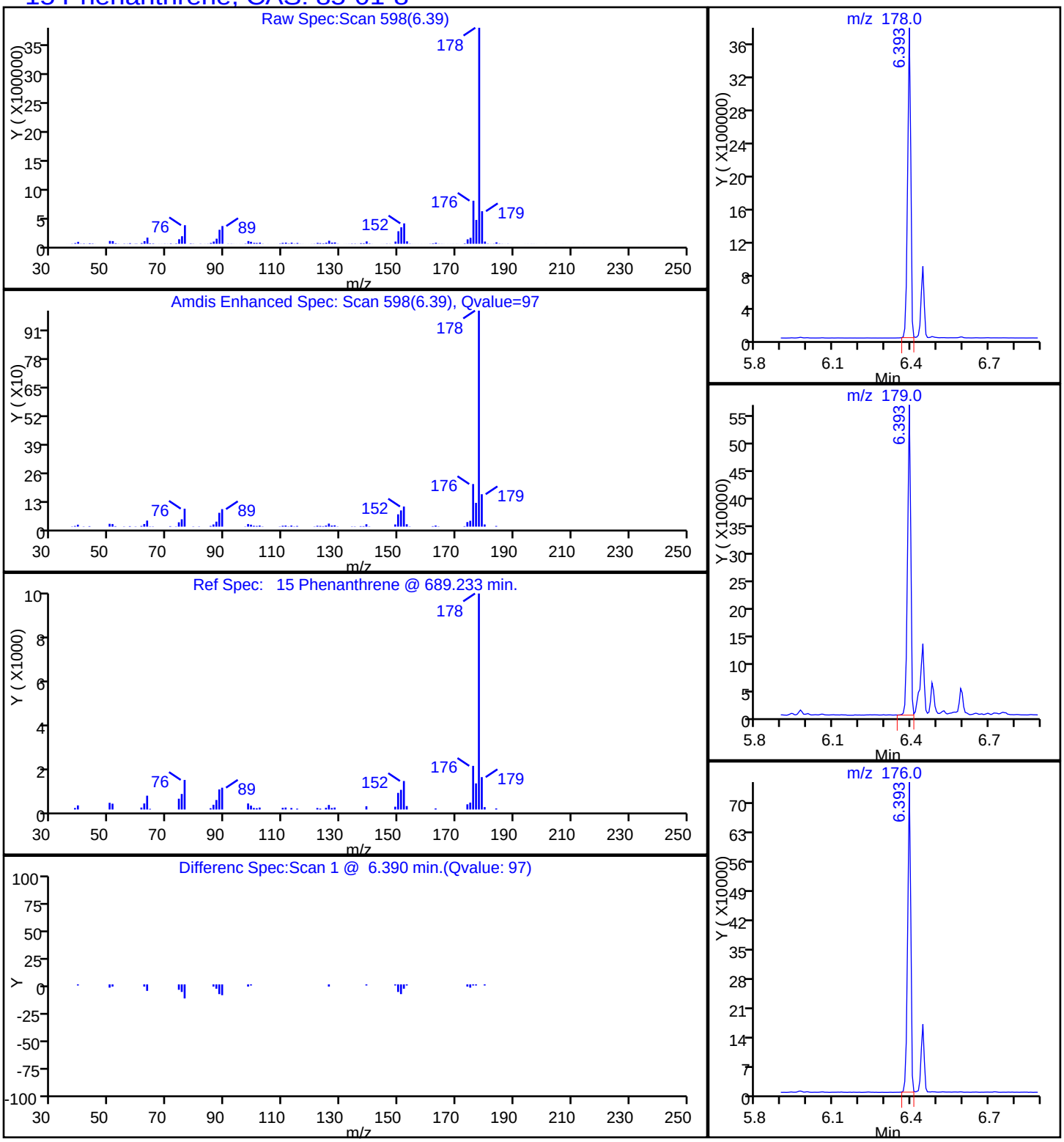
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

15 Phenanthrene, CAS: 85-01-8



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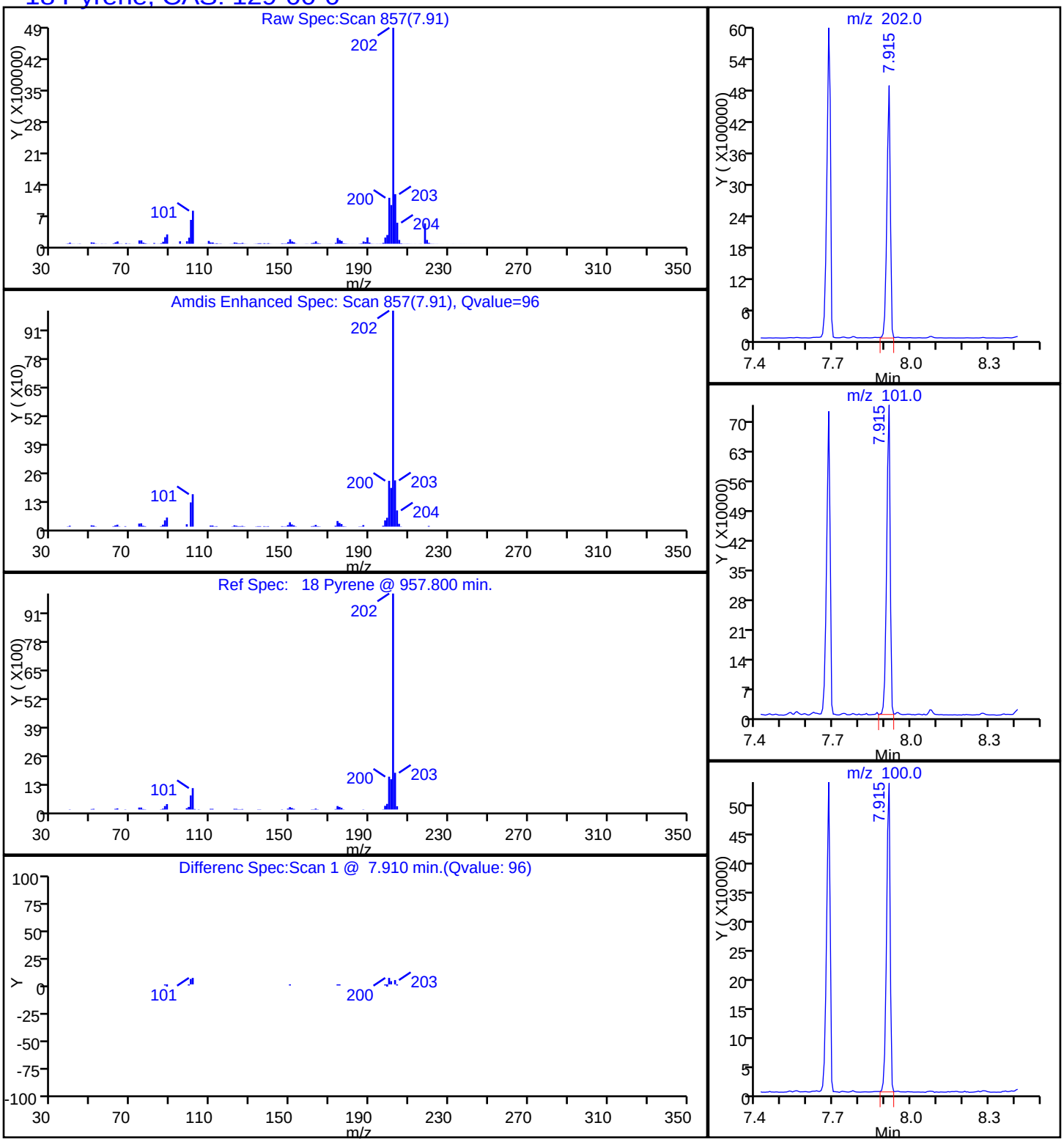
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

18 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

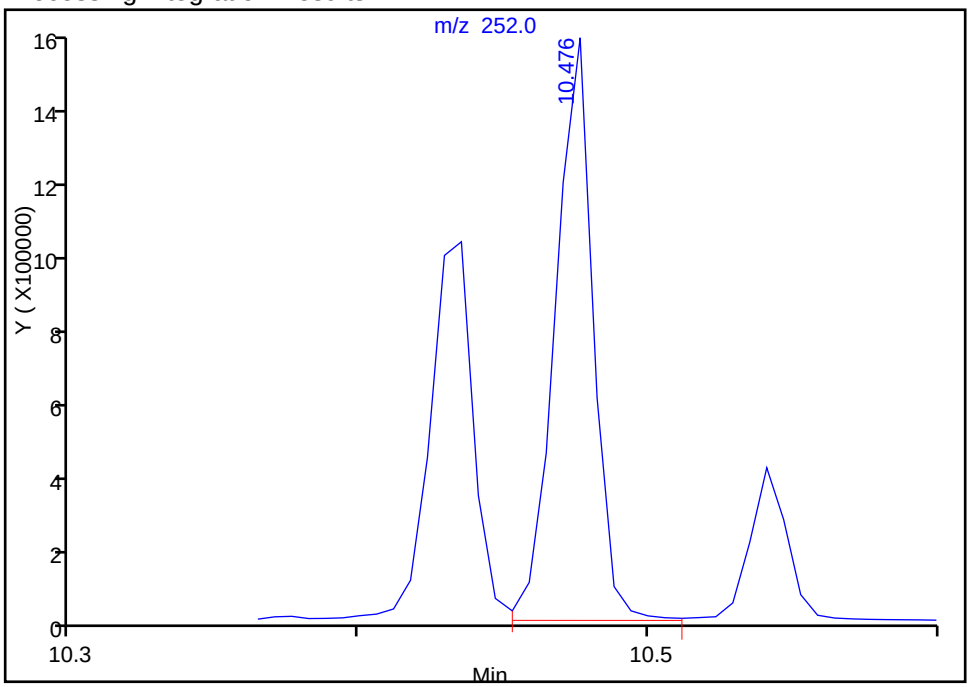
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1911.D				
Injection Date:	19-Nov-2014 15:53:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-1-A	Lab Sample ID:	680-107159-1		
Client ID:	FM0281A-CS6"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Benzo[k]fluoranthene, CAS: 207-08-9

Processing Integration Results

RT: 10.48
Response: 1443283
Amount: 5.916102



Manual Integration Results

RT: 10.22
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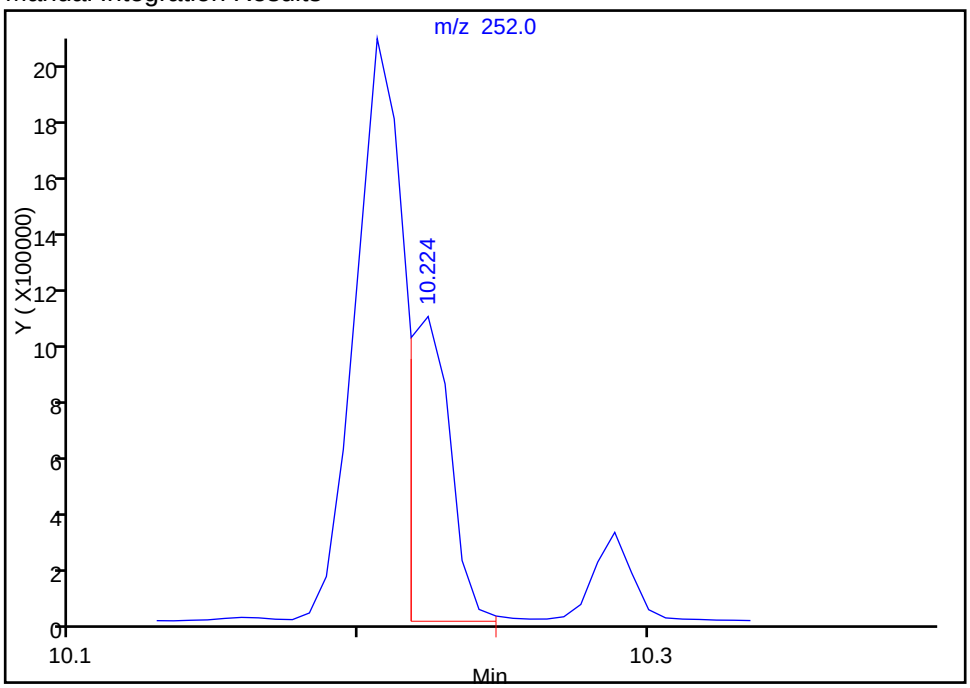
Amount: 4.545730



Reviewer: webbk, 20-Nov-2014 08:13:25
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah
Job No.: 680-107159-1
SDG No.: 680-107159-1
Client Sample ID: FM0281A-CS12"
Lab Sample ID: 680-107159-2
Matrix: Solid
Lab File ID: 2KK1912.D
Analysis Method: 8270D_LL_PAH
Date Collected: 11/07/2014 08:41
Extract. Method: 3546
Date Extracted: 11/12/2014 15:01
Sample wt/vol: 30.07(g)
Date Analyzed: 11/19/2014 16:16
Con. Extract Vol.: 1(mL)
Dilution Factor: 20
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 13.7
GPC Cleanup:(Y/N) N
Analysis Batch No.: 359503
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	920		150	76
208-96-8	Acenaphthylene	150	U	150	76
120-12-7	Anthracene	2500		150	76
56-55-3	Benzo[a]anthracene	7000		150	76
50-32-8	Benzo[a]pyrene	5800		150	28
205-99-2	Benzo[b]fluoranthene	8500		150	76
191-24-2	Benzo[g,h,i]perylene	3700		150	76
207-08-9	Benzo[k]fluoranthene	3100		150	46
218-01-9	Chrysene	7200		150	76
53-70-3	Dibenz(a,h)anthracene	1200		150	76
206-44-0	Fluoranthene	15000		150	76
86-73-7	Fluorene	920		150	76
193-39-5	Indeno[1,2,3-cd]pyrene	3600		150	76
90-12-0	1-Methylnaphthalene	220		150	72
91-57-6	2-Methylnaphthalene	320		150	76
91-20-3	Naphthalene	670		150	76
85-01-8	Phenanthrene	13000		150	55
129-00-0	Pyrene	11000		150	76

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1912.D
Lims ID: 680-107159-B-2-A Lab Sample ID: 680-107159-2
Client ID: FM0281A-CS12"
Sample Type: Client
Inject. Date: 19-Nov-2014 16:16:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: 680-107159-B-2-A 1:20
Misc. Info.: 680-0014922-012
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:08:41 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 20-Nov-2014 08:13:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.114	3.114	0.000	99	631575	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	93	329244	2.00	
* 3 Phenanthrene-d10	188	6.369	6.363	0.006	98	516681	2.00	
* 4 Chrysene-d12	240	9.201	9.196	0.005	99	592711	2.00	
* 5 Perylene-d12	264	10.523	10.518	0.005	99	443917	2.00	
7 Naphthalene	128	3.132	3.138	-0.006	99	305823	0.8637	
9 2-Methylnaphthalene	142	3.772	3.778	-0.006	86	88926	0.4124	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	92	57163	0.2912	
11 Acenaphthylene	152	4.654	4.654	0.000	98	28934	0.0831	
12 Acenaphthene	153	4.836	4.842	-0.006	96	247767	1.20	
14 Fluorene	166	5.376	5.382	-0.006	96	291317	1.20	
15 Phenanthrene	178	6.399	6.393	0.006	97	5157440	16.5	
16 Anthracene	178	6.446	6.446	0.000	98	1045646	3.24	
17 Fluoranthene	202	7.685	7.674	0.011	98	7403089	19.7	
18 Pyrene	202	7.915	7.909	0.006	97	5863289	14.1	
19 Benzo[a]anthracene	228	9.195	9.190	0.005	98	3005617	9.08	
20 Chrysene	228	9.225	9.225	0.000	98	2890340	9.29	
21 Benzo[b]fluoranthene	252	10.212	10.200	0.012	98	3482224	11.0	M
22 Benzo[k]fluoranthene	252	10.230	10.224	0.006	99	1170175	3.97	M
23 Benzo[a]pyrene	252	10.476	10.471	0.006	97	1928945	7.56	
24 Indeno[1,2,3-cd]pyrene	276	11.399	11.399	0.000	99	988618	4.61	
25 Dibenz(a,h)anthracene	278	11.416	11.422	-0.006	94	262126	1.58	
26 Benzo[g,h,i]perylene	276	11.634	11.634	0.000	98	886241	4.75	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

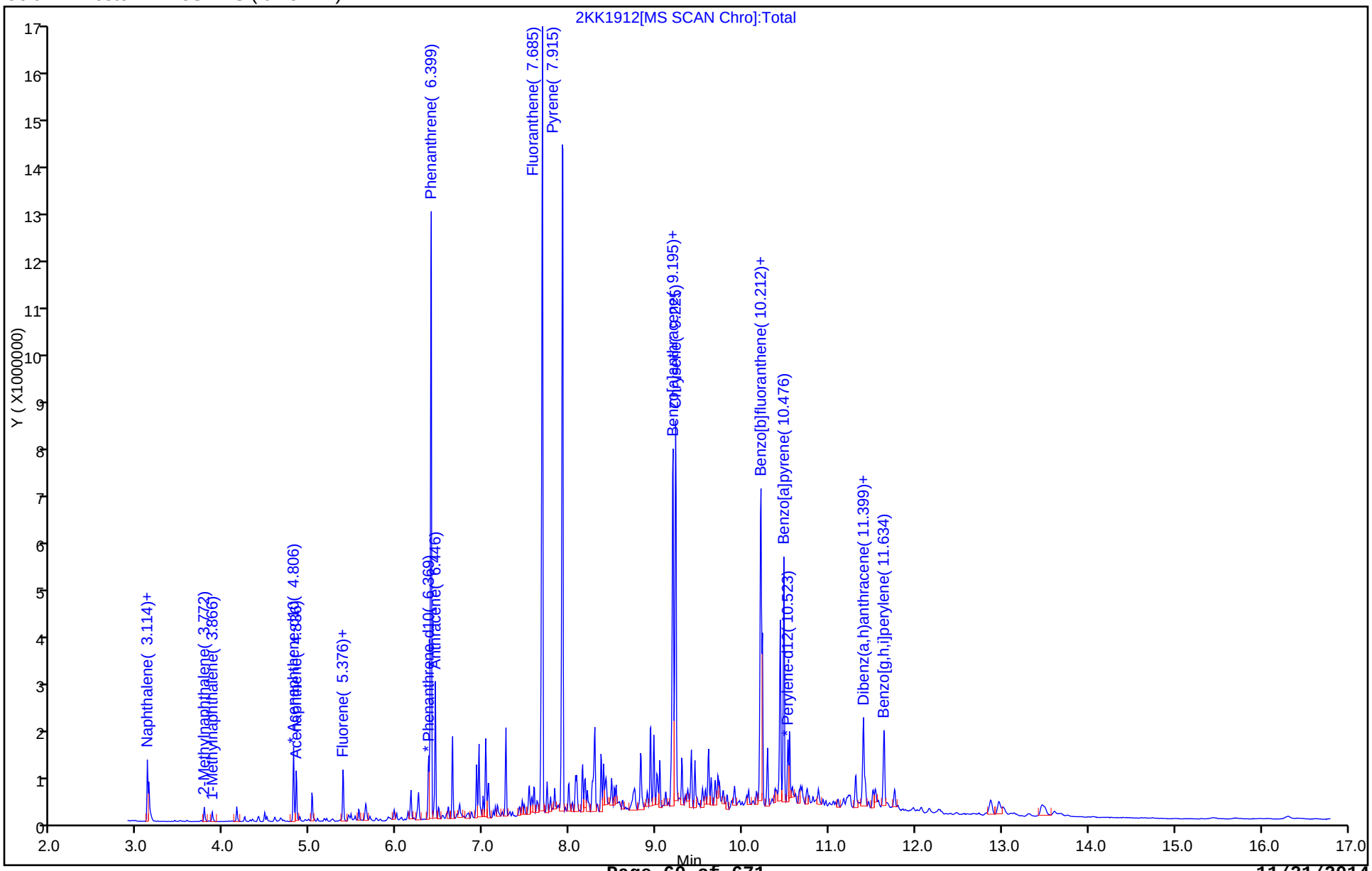
SM-LLISTD_00114	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Nov-2014 10:09:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1912.D				
Injection Date:	19-Nov-2014 16:16:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-107159-B-2-A	Lab Sample ID:	680-107159-2	Worklist Smp#:	12
Client ID:	FM0281A-CS12"				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	12
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)



Report Date: 20-Nov-2014 10:09:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1912.D				
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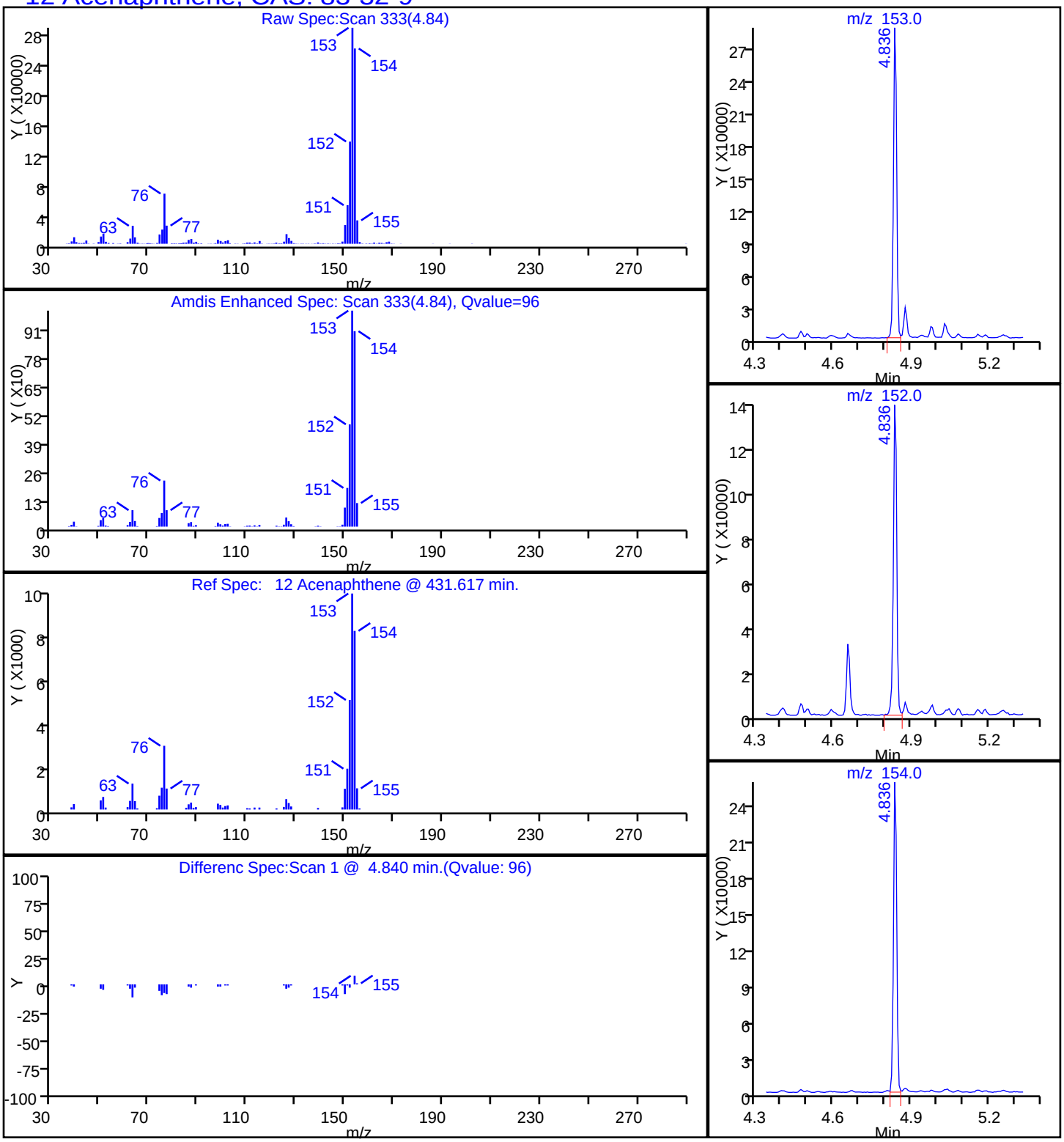
Lims ID:	680-107159-B-2-A	Lab Sample ID:	680-107159-2		
Client ID:	FM0281A-CS12"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

12 Acenaphthene, CAS: 83-32-9



Report Date: 20-Nov-2014 10:09:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1912.D				
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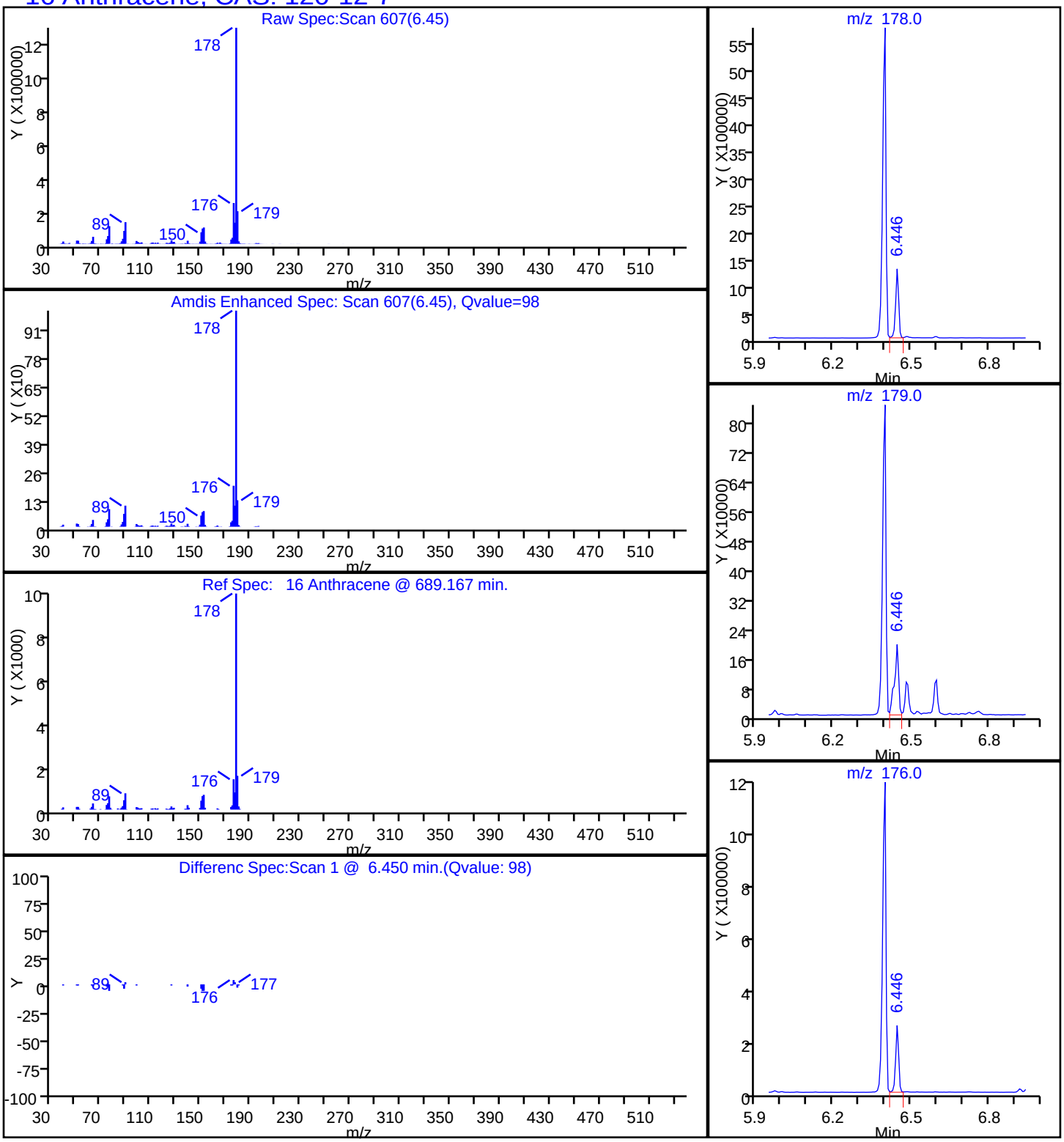
Lims ID:	680-107159-B-2-A	Lab Sample ID:	680-107159-2		
Client ID:	FM0281A-CS12"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

16 Anthracene, CAS: 120-12-7

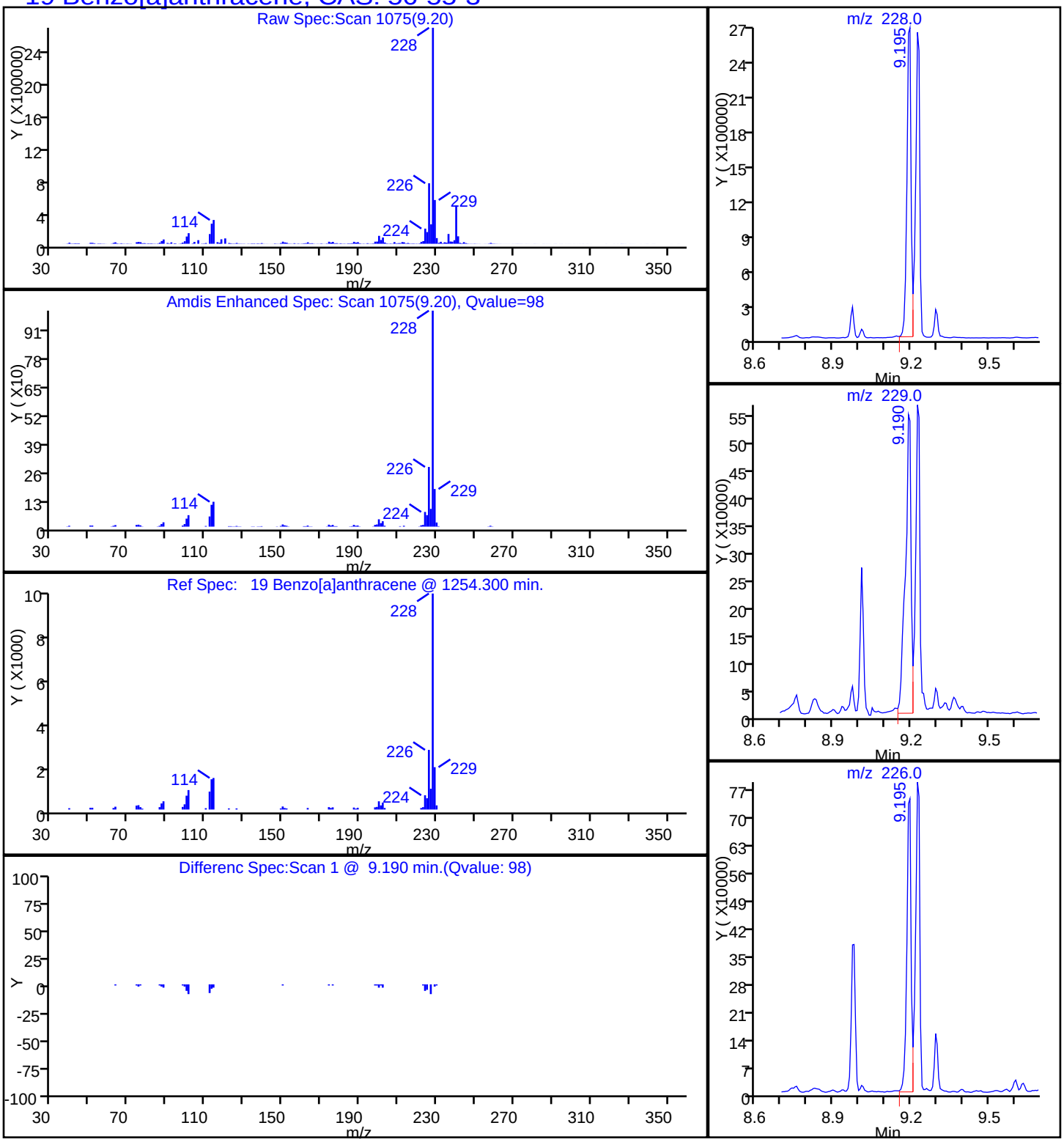


Report Date: 20-Nov-2014 10:09:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1912.D				
Injection Date:	19-Nov-2014 16:16:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-2-A	Lab Sample ID:	680-107159-2		
Client ID:	FM0281A-CS12"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 Benzo[a]anthracene, CAS: 56-55-3



Report Date: 20-Nov-2014 10:09:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

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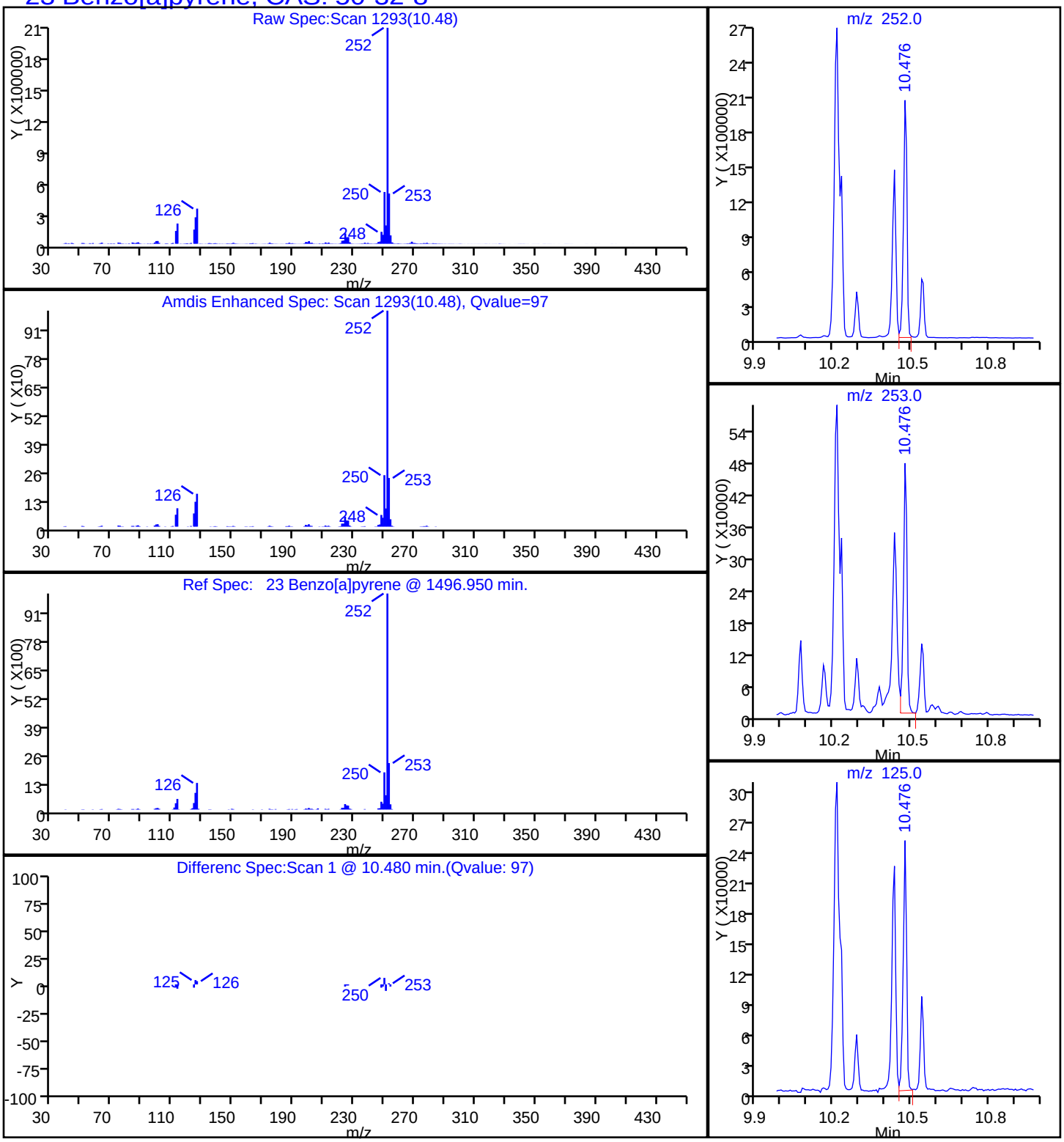
Client ID:	FM0281A-CS12"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[a]pyrene, CAS: 50-32-8



Report Date: 20-Nov-2014 10:09:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

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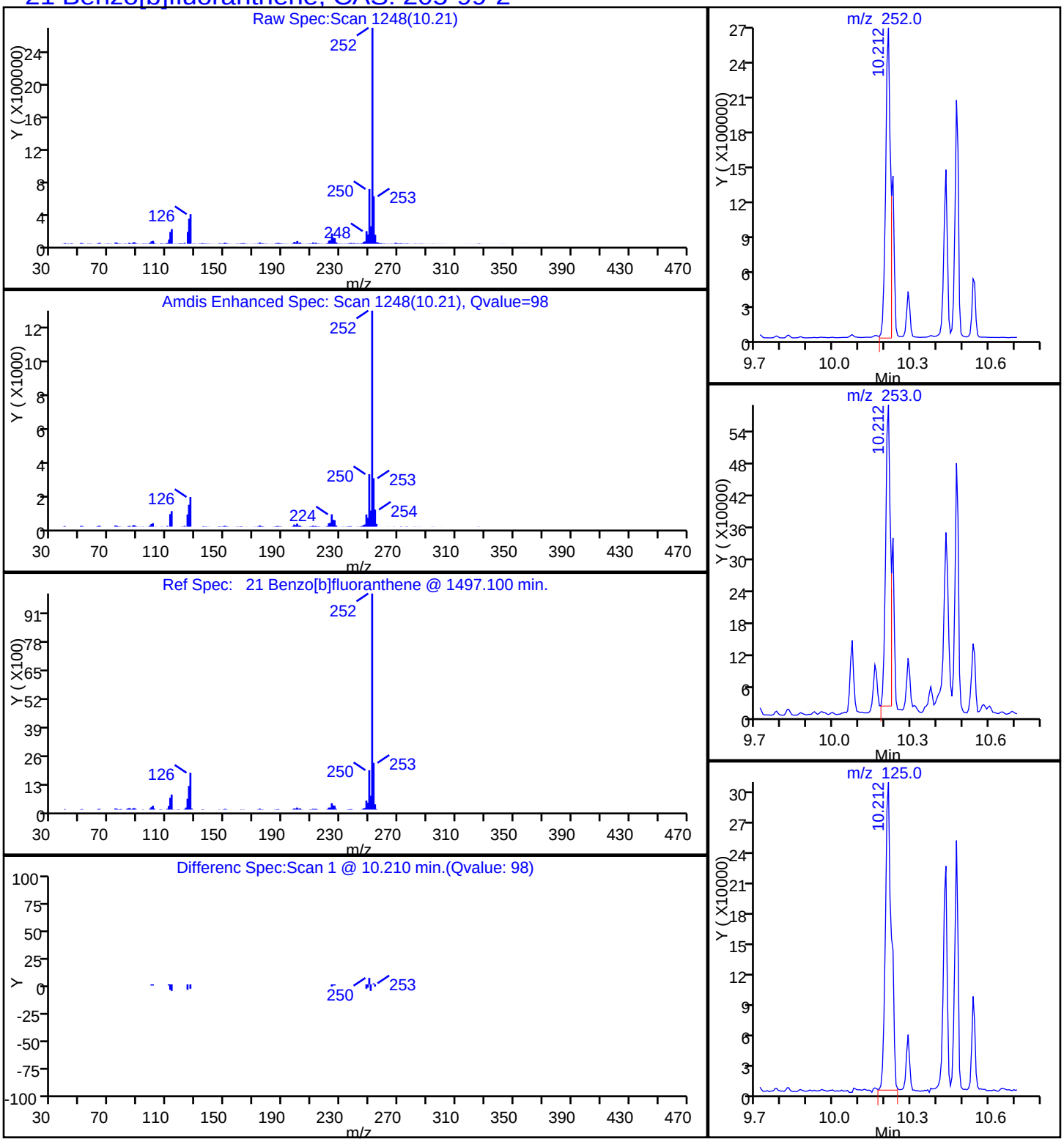
Lims ID:	680-107159-B-2-A	Lab Sample ID:	680-107159-2		
Client ID:	FM0281A-CS12"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

21 Benzo[b]fluoranthene, CAS: 205-99-2



Report Date: 20-Nov-2014 10:09:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

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Client ID:	FM0281A-CS12"				
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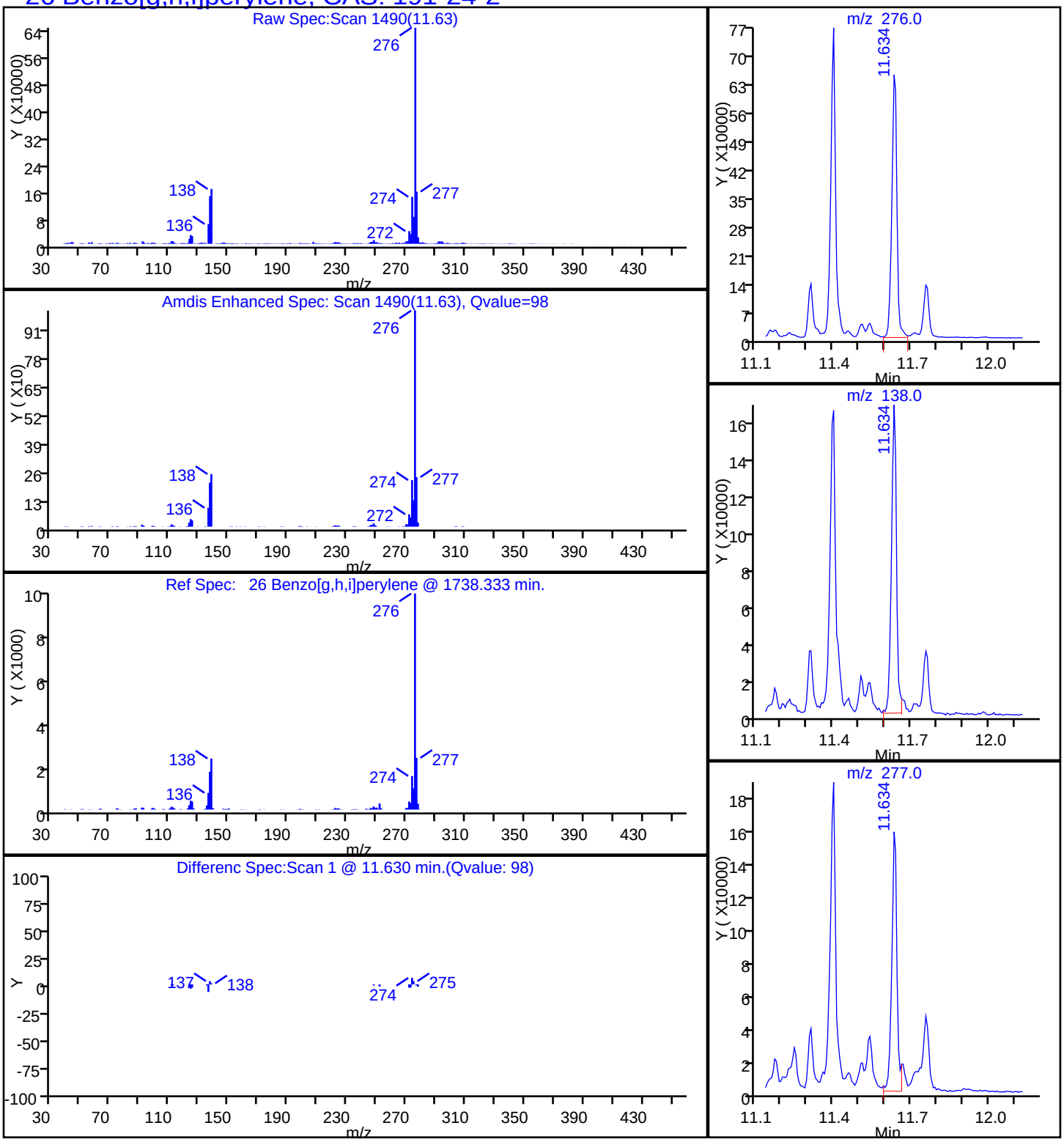
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

26 Benzo[g,h,i]perylene, CAS: 191-24-2



Report Date: 20-Nov-2014 10:09:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1912.D				
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Client ID:	FM0281A-CS12"				
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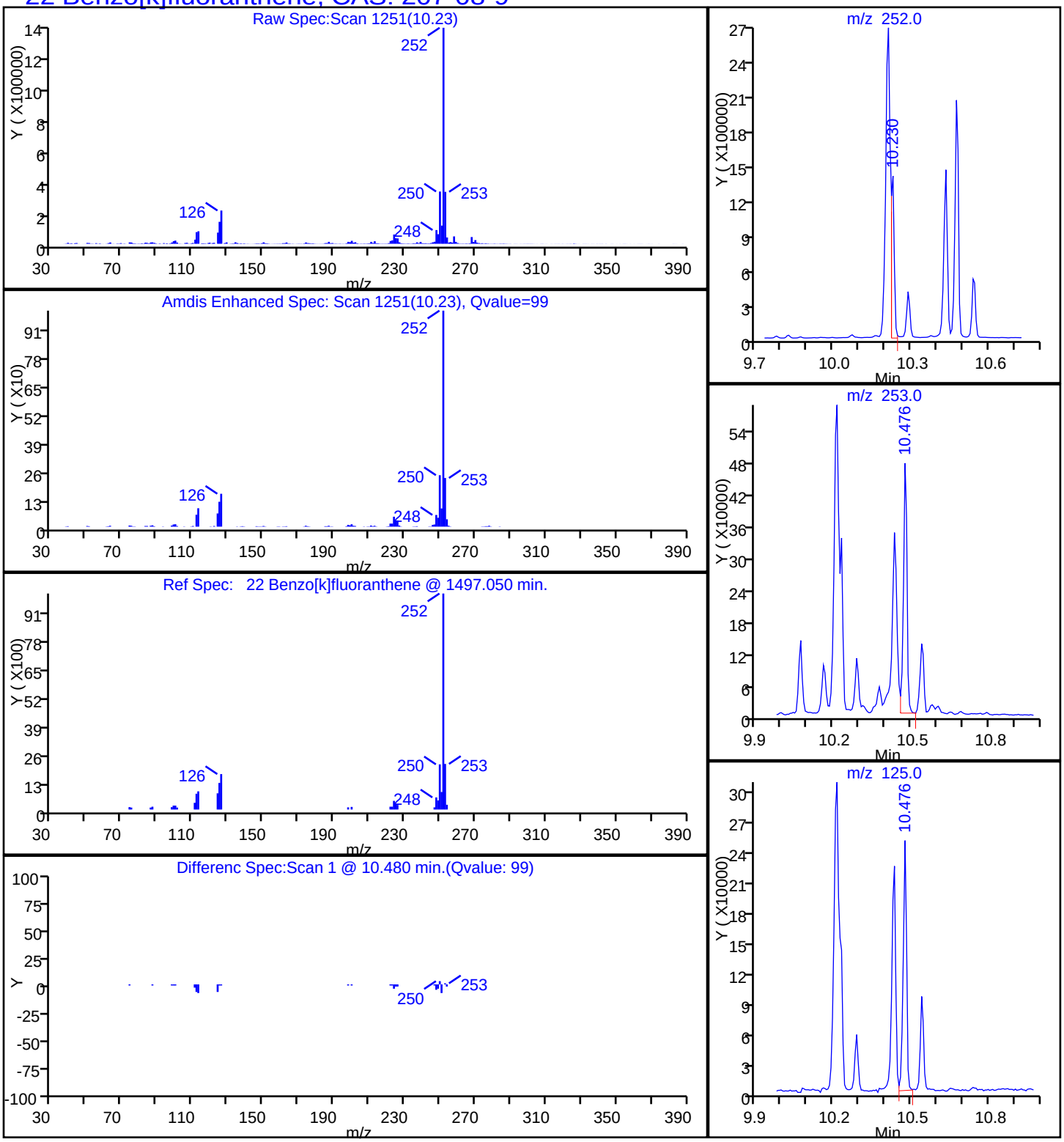
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Benzo[k]fluoranthene, CAS: 207-08-9



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TestAmerica Savannah

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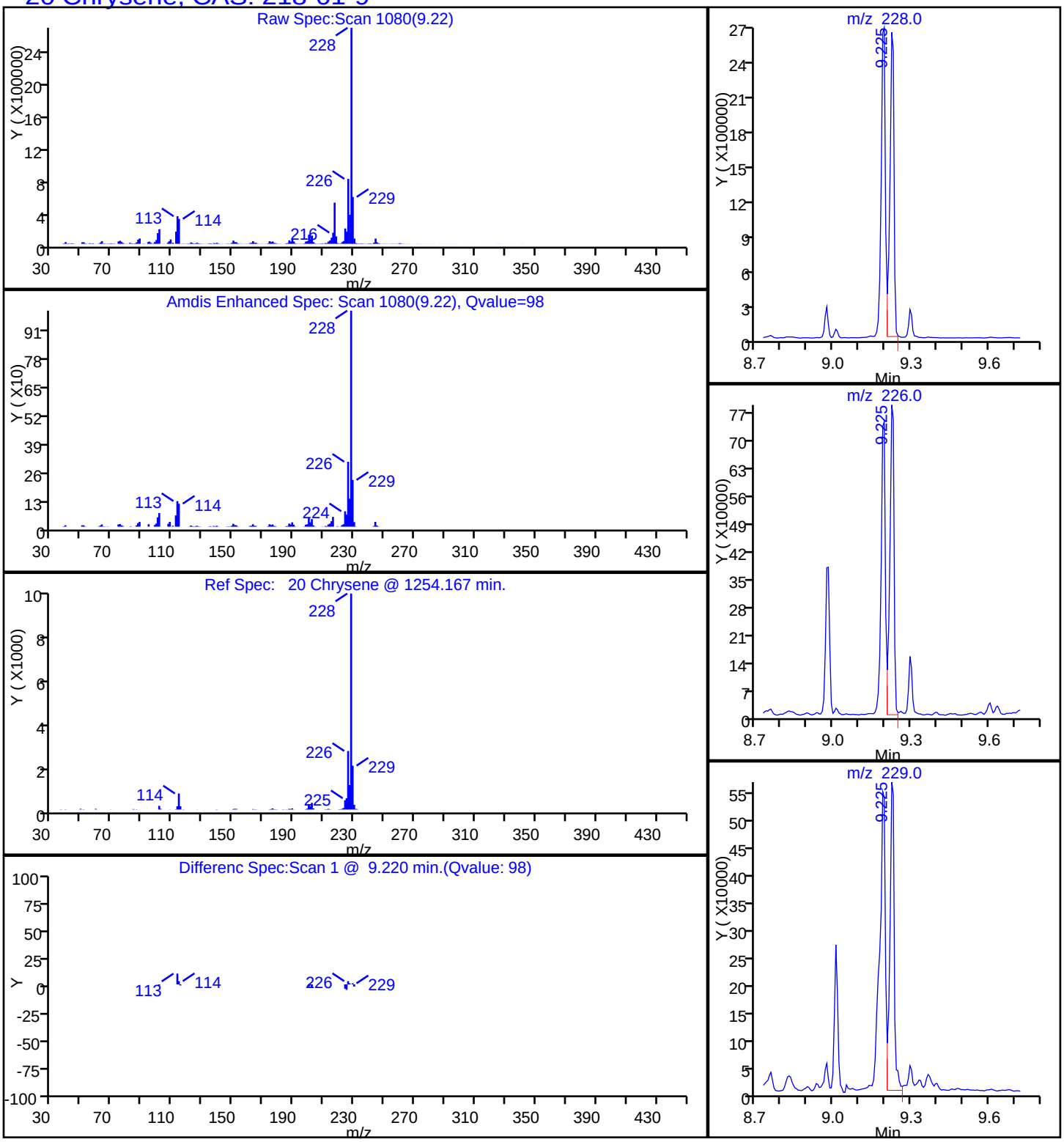
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Chrysene, CAS: 218-01-9



Report Date: 20-Nov-2014 10:09:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1912.D				
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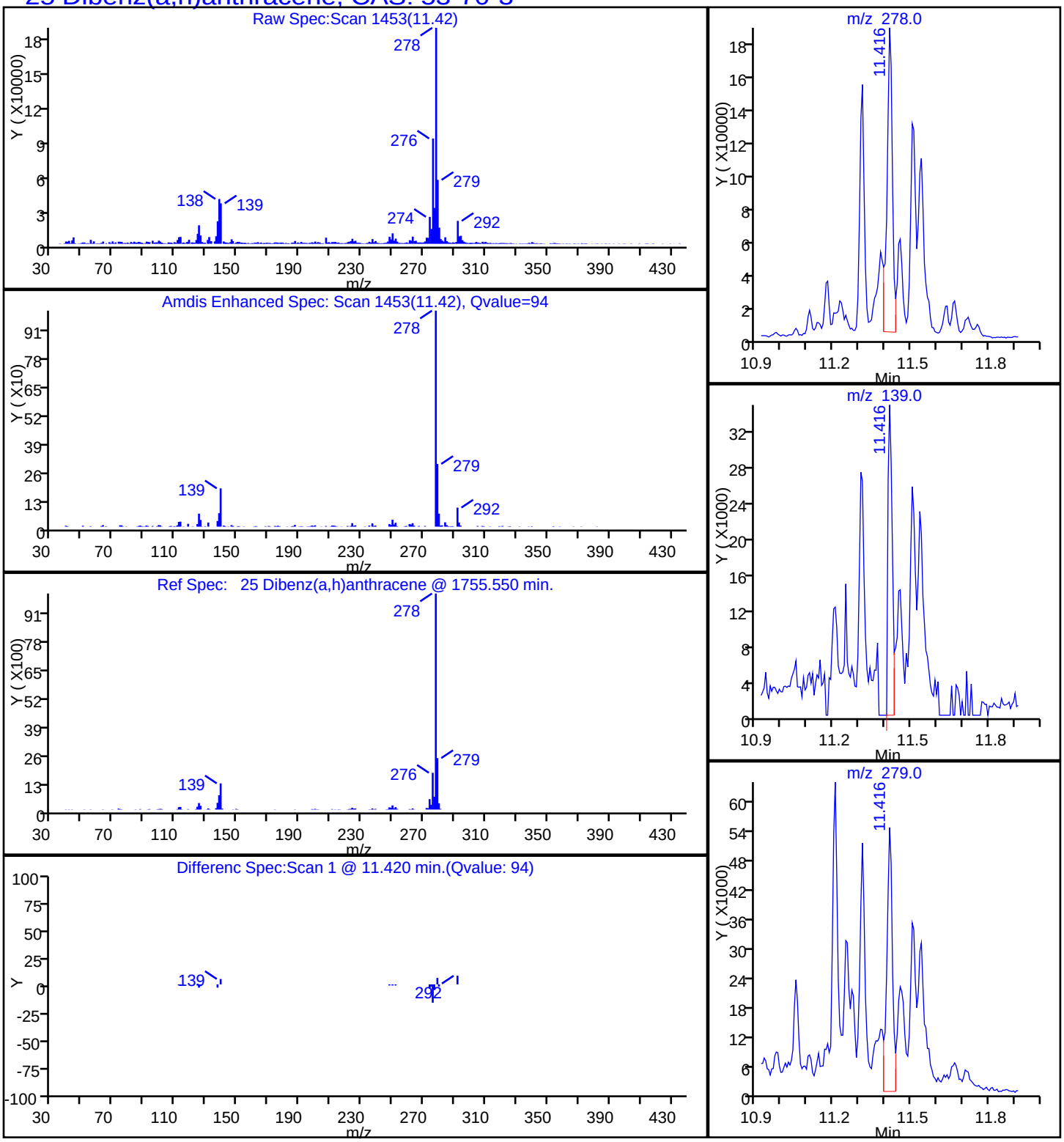
Client ID:	FM0281A-CS12"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

25 Dibenz(a,h)anthracene, CAS: 53-70-3



Report Date: 20-Nov-2014 10:09:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1912.D				
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Client ID:	FM0281A-CS12"				
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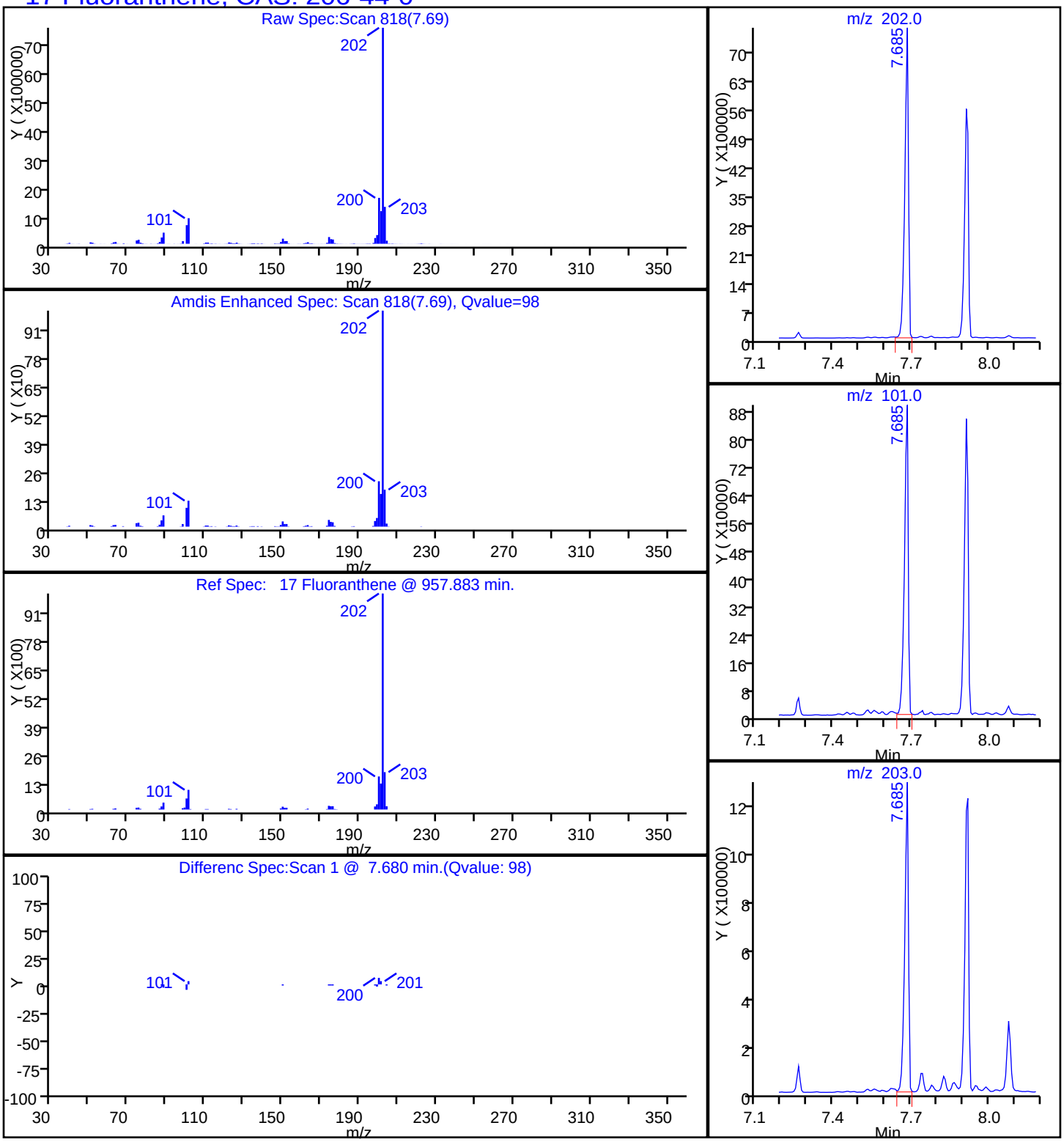
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Fluoranthene, CAS: 206-44-0



Report Date: 20-Nov-2014 10:09:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1912.D				
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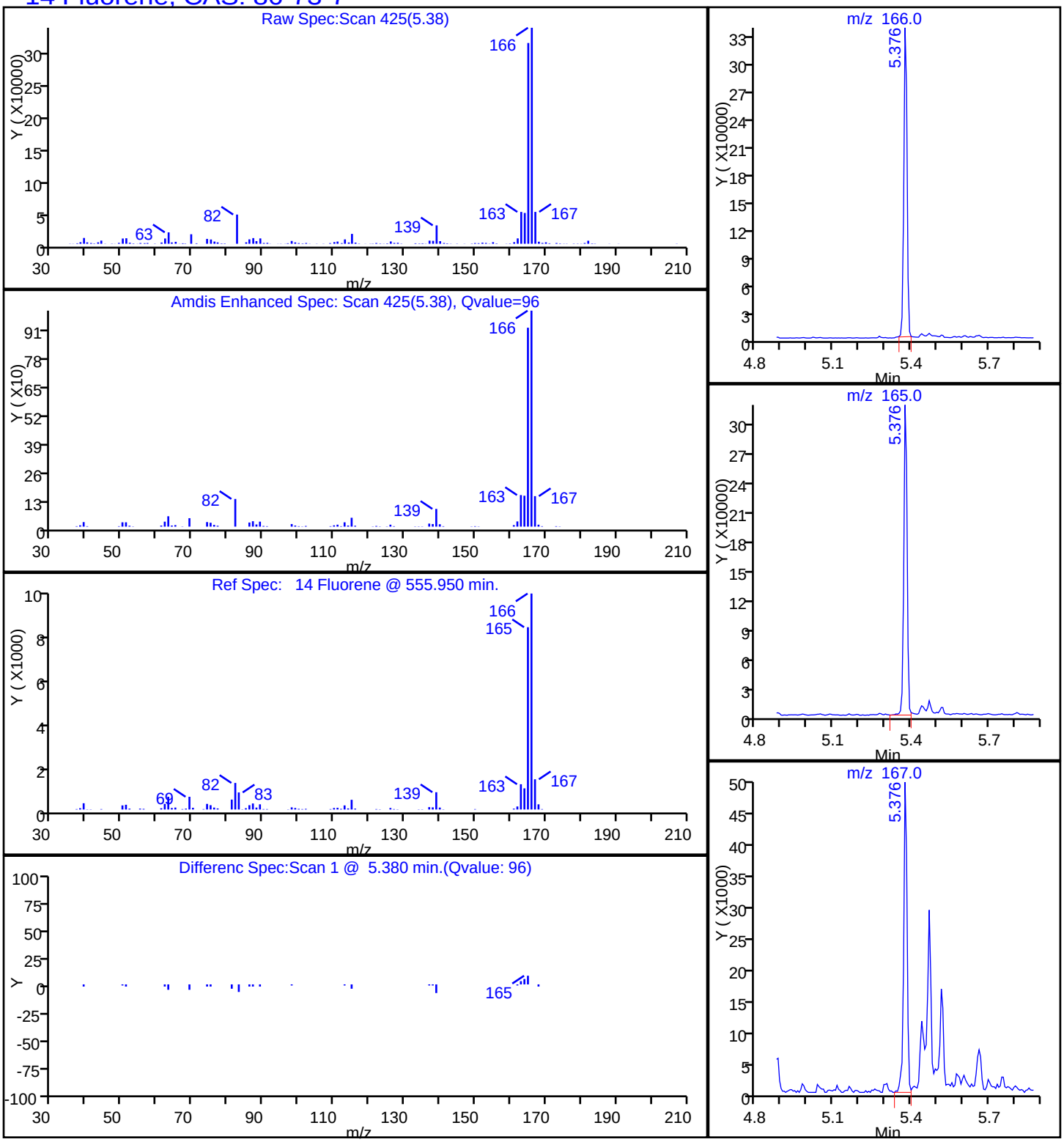
Lims ID:	680-107159-B-2-A	Lab Sample ID:	680-107159-2		
Client ID:	FM0281A-CS12"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

14 Fluorene, CAS: 86-73-7



Report Date: 20-Nov-2014 10:09:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1912.D				
Injection Date:	19-Nov-2014 16:16:30	Instrument ID:	CMSK		
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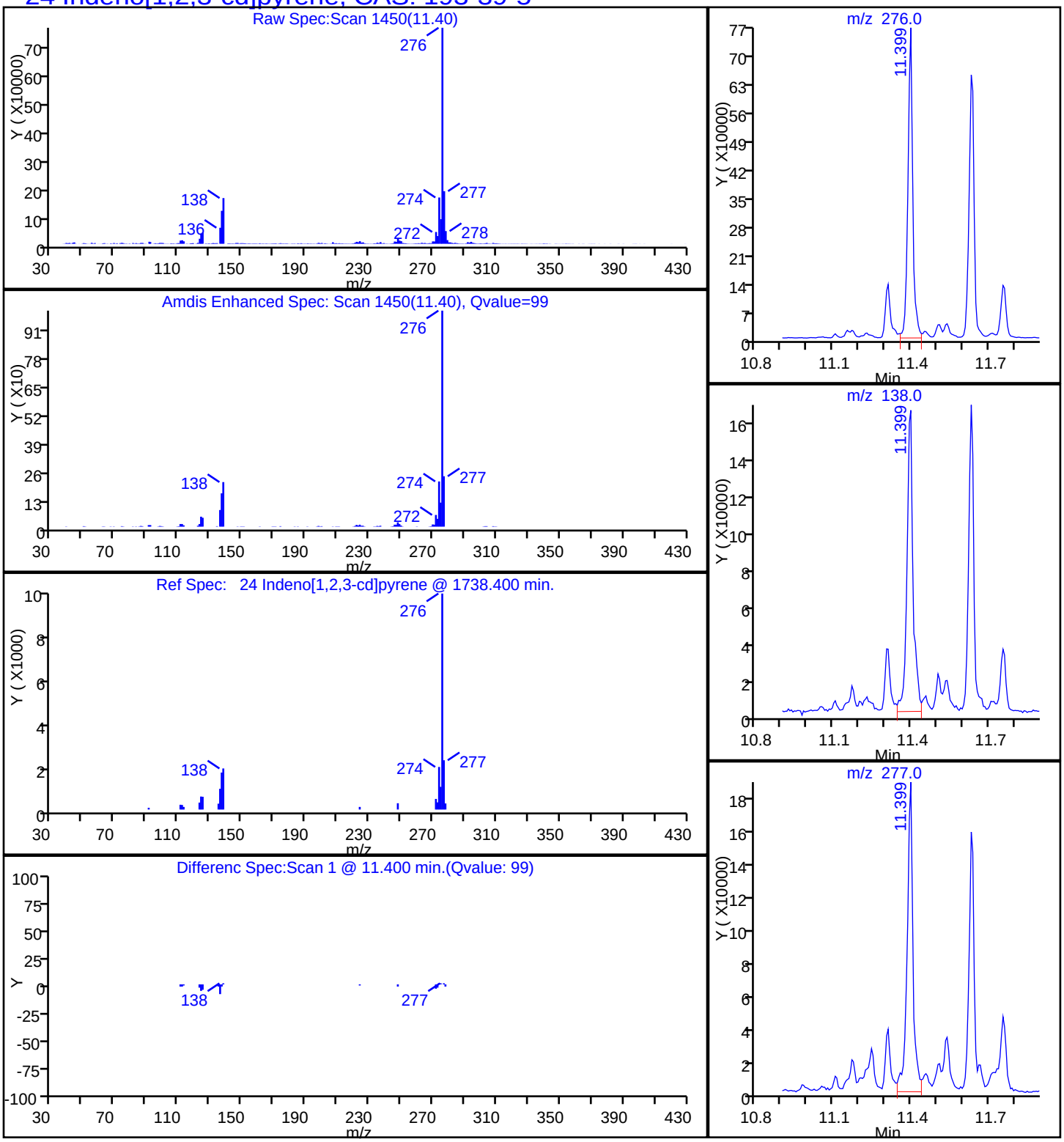
Client ID:	FM0281A-CS12"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



Report Date: 20-Nov-2014 10:09:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

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Injection Date:	19-Nov-2014 16:16:30	Instrument ID:	CMSK		
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Client ID:	FM0281A-CS12"				
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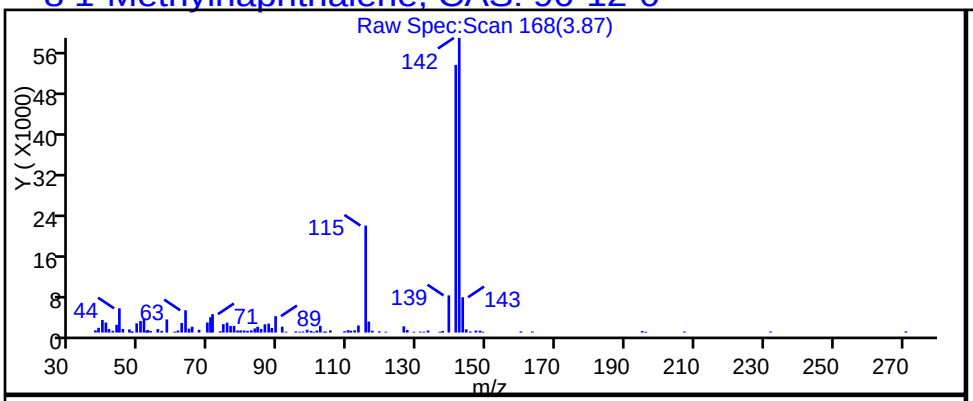
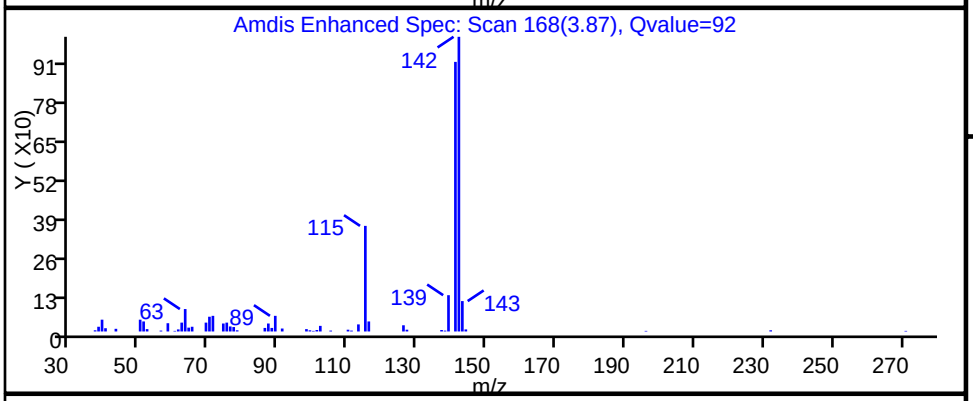
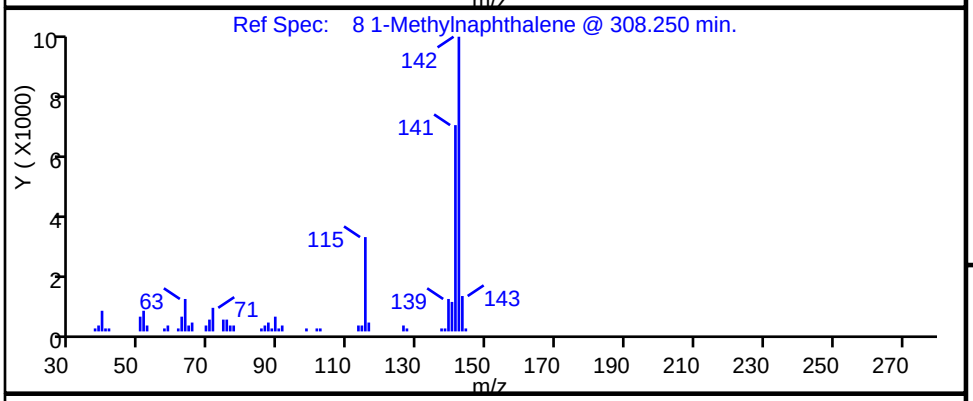
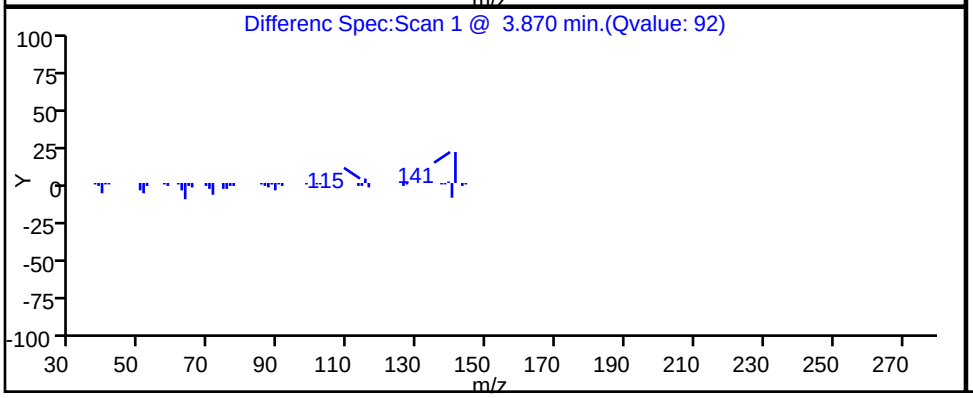
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

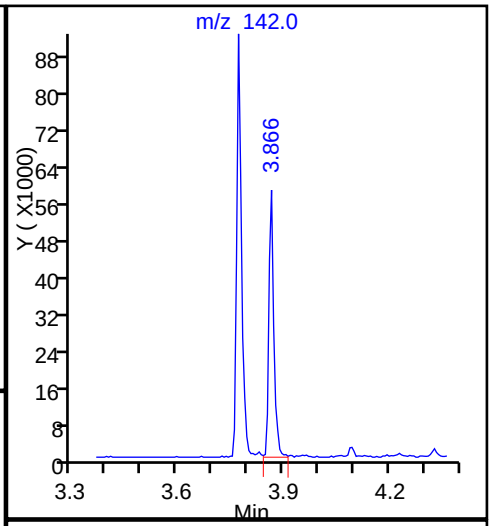
8 1-Methylnaphthalene, CAS: 90-12-0

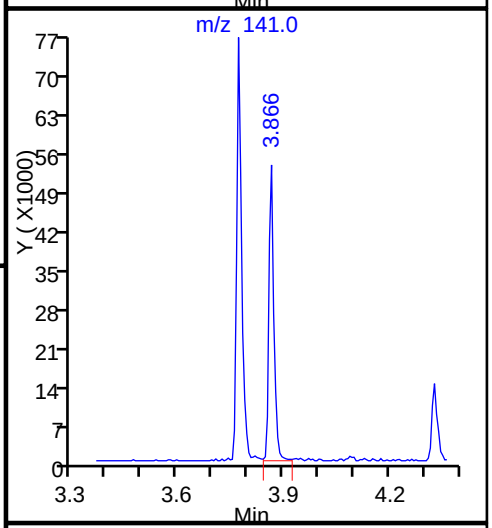


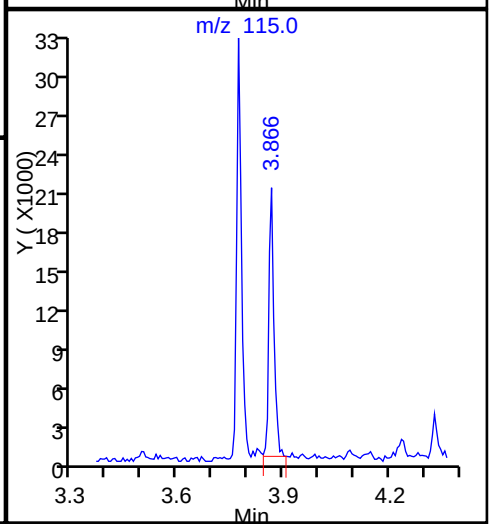










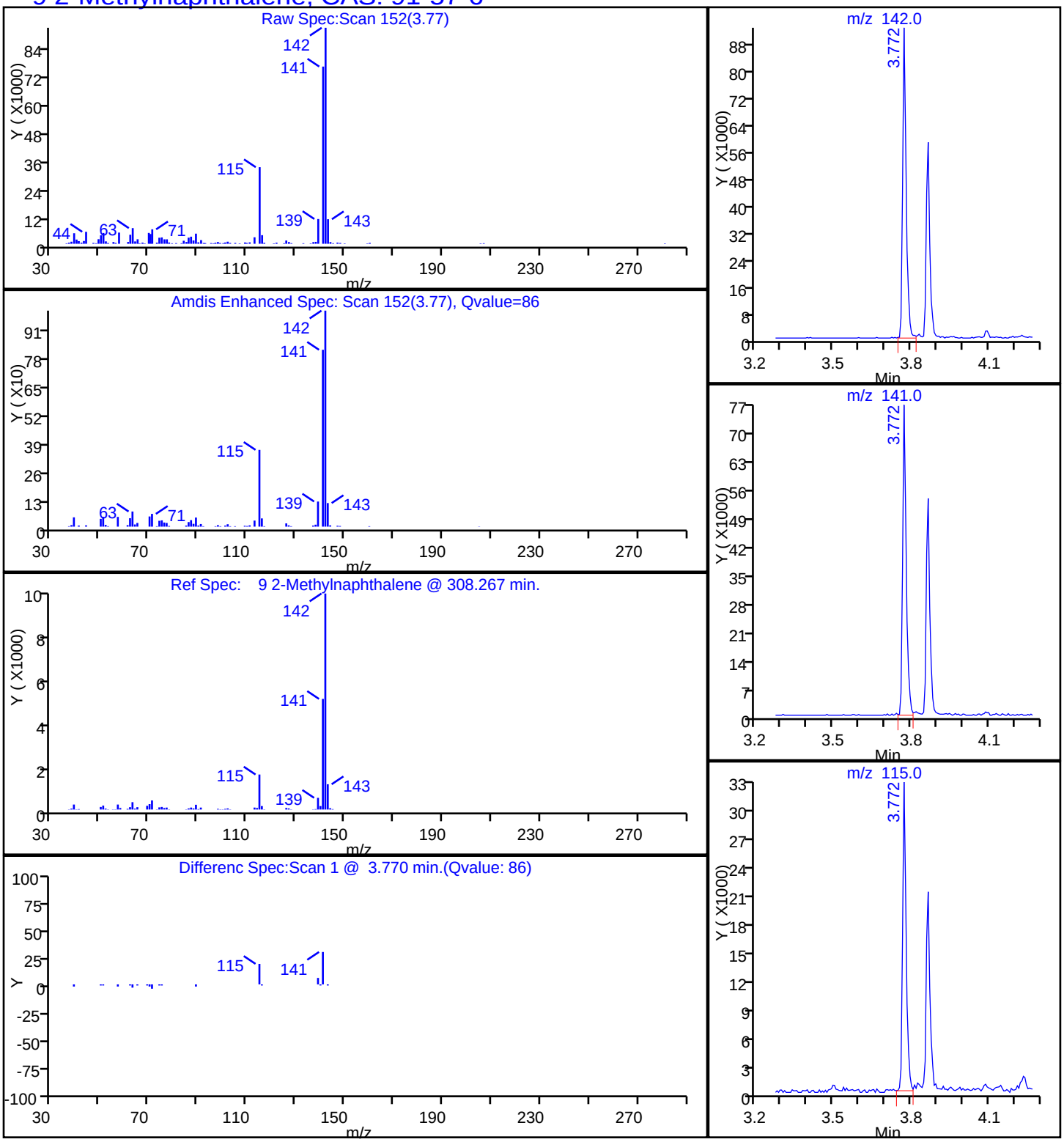


Report Date: 20-Nov-2014 10:09:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1912.D				
Injection Date:	19-Nov-2014 16:16:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-2-A	Lab Sample ID:	680-107159-2		
Client ID:	FM0281A-CS12"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

9 2-Methylnaphthalene, CAS: 91-57-6

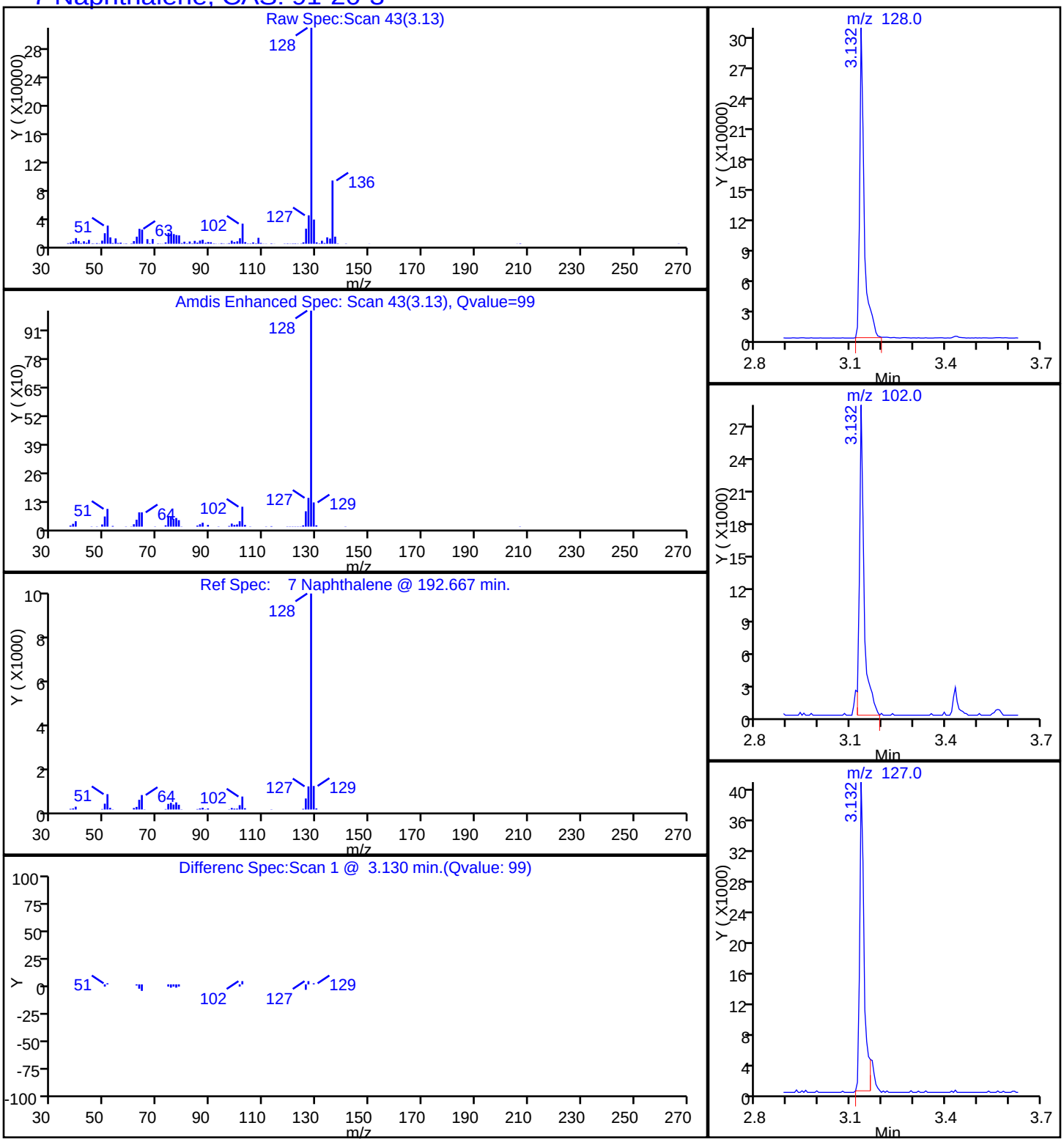


Report Date: 20-Nov-2014 10:09:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1912.D				
Injection Date:	19-Nov-2014 16:16:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-2-A	Lab Sample ID:	680-107159-2		
Client ID:	FM0281A-CS12"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Naphthalene, CAS: 91-20-3

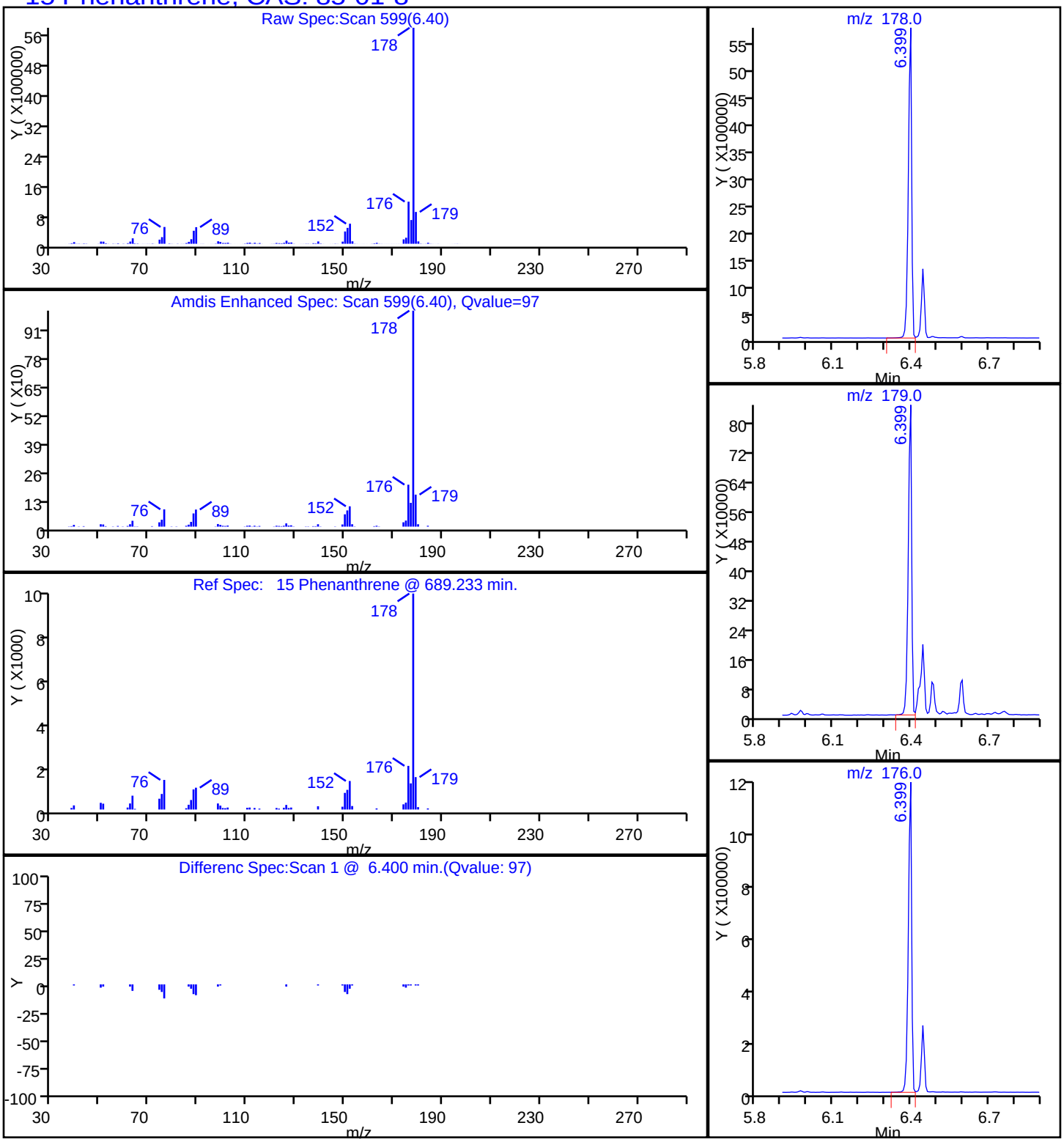


Report Date: 20-Nov-2014 10:09:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1912.D				
Injection Date:	19-Nov-2014 16:16:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-2-A	Lab Sample ID:	680-107159-2		
Client ID:	FM0281A-CS12"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

15 Phenanthrene, CAS: 85-01-8

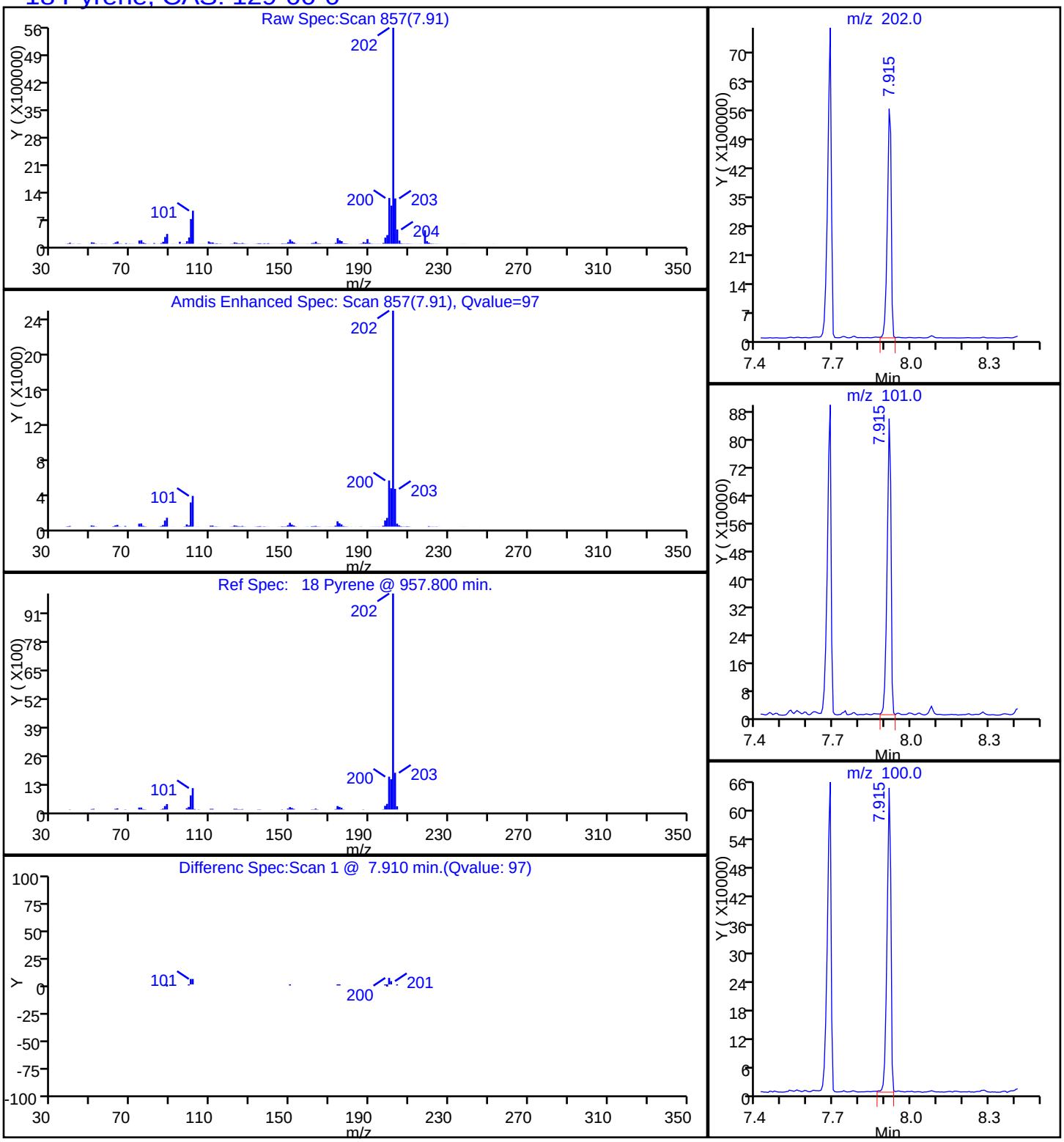


Report Date: 20-Nov-2014 10:09:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1912.D				
Injection Date:	19-Nov-2014 16:16:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-2-A	Lab Sample ID:	680-107159-2		
Client ID:	FM0281A-CS12"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

18 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

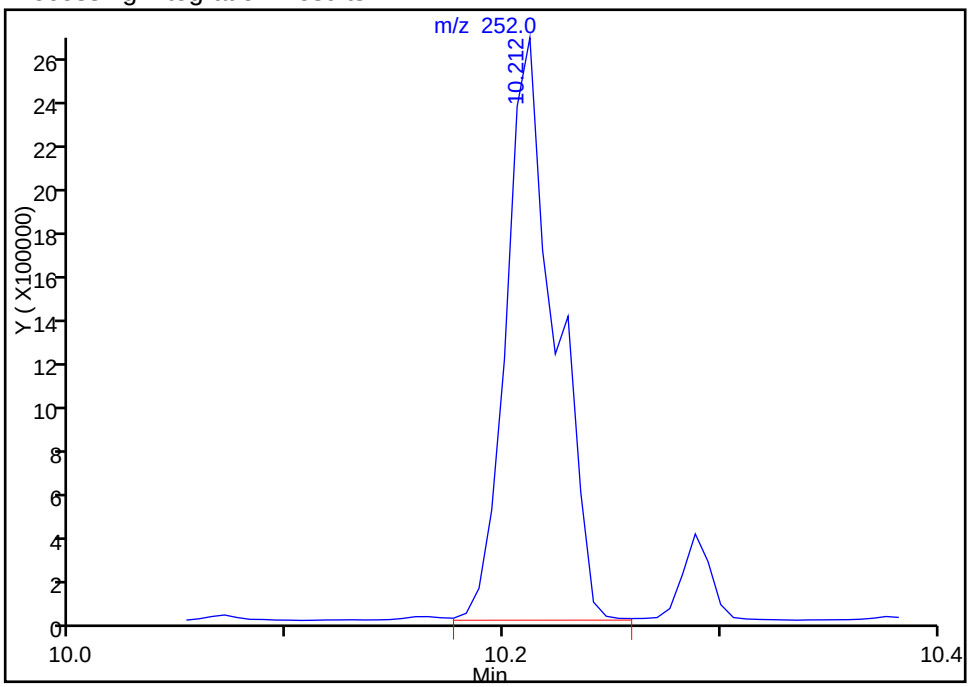
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1912.D				
Injection Date:	19-Nov-2014 16:16:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-2-A	Lab Sample ID:	680-107159-2		
Client ID:	FM0281A-CS12"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

21 Benzo[b]fluoranthene, CAS: 205-99-2

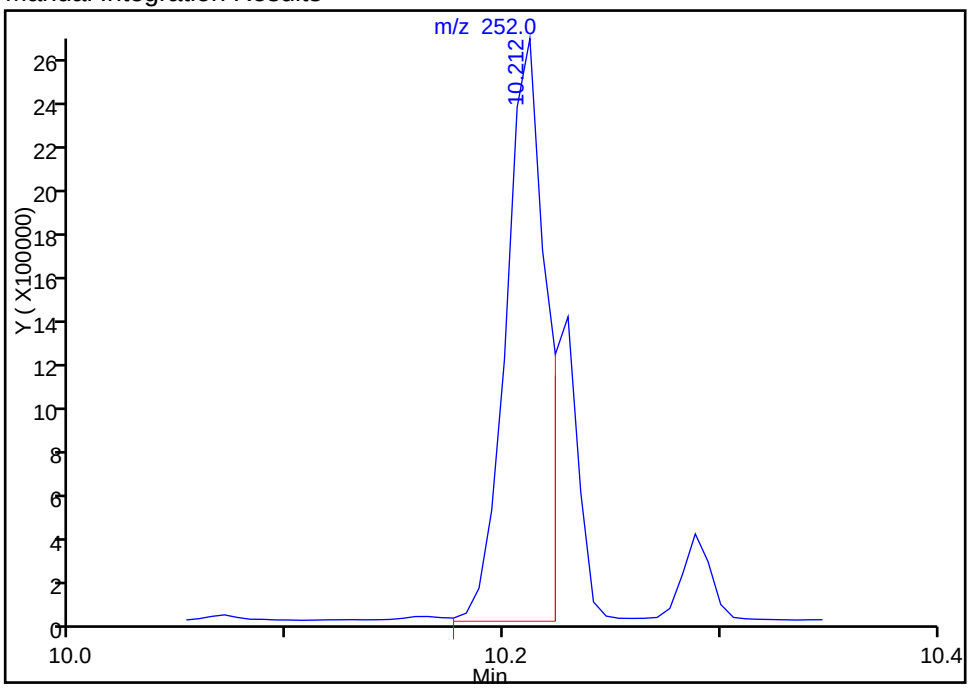
Processing Integration Results

RT: 10.21
Response: 4202591
Amount: 13.058374



Manual Integration Results

RT: 10.21
Response: 3482224
Amount: 11.040052



Reviewer: webbk, 20-Nov-2014 10:08:21
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

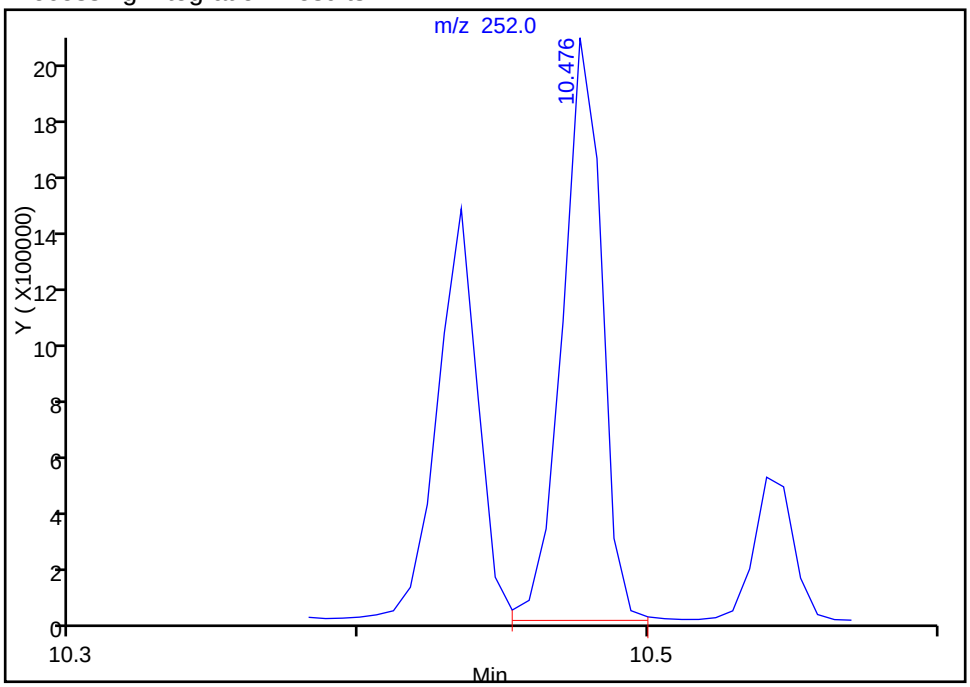
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1912.D				
Injection Date:	19-Nov-2014 16:16:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-2-A	Lab Sample ID:	680-107159-2		
Client ID:	FM0281A-CS12"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Benzo[k]fluoranthene, CAS: 207-08-9

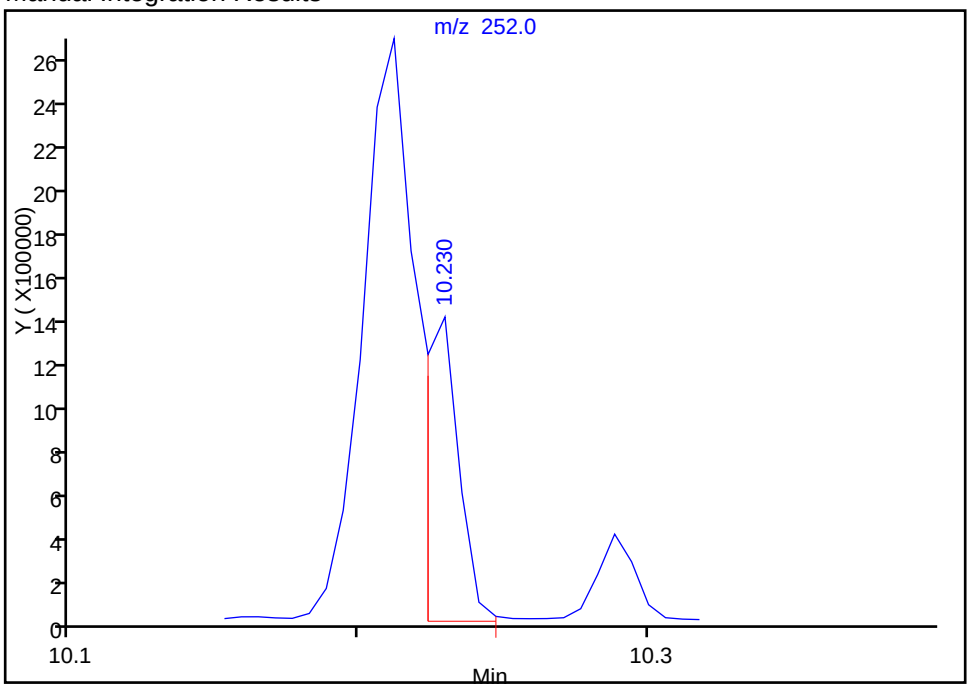
Processing Integration Results

RT: 10.48
Response: 1928945
Amount: 6.549475



Manual Integration Results

RT: 10.23
Response: 1170175
Amount: 3.973173



Reviewer: webbk, 20-Nov-2014 10:08:21
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281A-CS18" | Lab Sample ID: 680-107159-3

Matrix: Solid | Lab File ID: 1YK1720.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 08:51

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.11(g) | Date Analyzed: 11/18/2014 18:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 27.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	61	J	93	46
208-96-8	Acenaphthylene	93	U	93	46
120-12-7	Anthracene	160		93	46
56-55-3	Benzo[a]anthracene	580		93	46
50-32-8	Benzo[a]pyrene	520		93	17
205-99-2	Benzo[b]fluoranthene	720		93	46
191-24-2	Benzo[g,h,i]perylene	280		93	46
207-08-9	Benzo[k]fluoranthene	230		93	28
218-01-9	Chrysene	590		93	46
53-70-3	Dibenz(a,h)anthracene	100		93	46
206-44-0	Fluoranthene	1000		93	46
86-73-7	Fluorene	69	J	93	46
193-39-5	Indeno[1,2,3-cd]pyrene	220		93	46
90-12-0	1-Methylnaphthalene	93	U	93	43
91-57-6	2-Methylnaphthalene	93	U	93	46
91-20-3	Naphthalene	93	U	93	46
85-01-8	Phenanthrene	590		93	33
129-00-0	Pyrene	960		93	46

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3		
Client ID:	FM0281A-CS18"				
Sample Type:	Client				
Inject. Date:	18-Nov-2014 18:07:30	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Sample Info:	107159-B-3-A 1:10				
Misc. Info.:	680-0014871-020				
Operator ID:		Instrument ID:	CMSY		

Method:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m		
Limit Group:	8270D_LL_PAH		
Last Update:	19-Nov-2014 08:10:37	Calib Date:	18-Nov-2014 13:33:30
Integrator:	RTE	ID Type:	RT Order ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D		

Column 1 :	Restek RXi-5Sil MS (0.25 mm)		Det: MS SCAN
Process Host:	XAWRK051		

First Level Reviewer: webbk Date: 19-Nov-2014 07:58:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.264	4.264	0.000	99	652465	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	92	380442	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	669926	2.00	
* 4 Chrysene-d12	240	10.655	10.655	0.000	99	528022	2.00	
* 5 Perylene-d12	264	12.271	12.265	0.006	98	341918	2.00	
7 Naphthalene	128	4.285	4.285	0.000	67	31076	0.0905	
9 2-Methylnaphthalene	142	4.981	4.986	-0.005	81	16037	0.0722	
10 1-Methylnaphthalene	142	5.088	5.087	0.001	74	11633	0.0574	
14 Acenaphthene	153	6.141	6.141	0.000	63	31597	0.1327	
16 Fluorene	166	6.714	6.713	0.001	84	38201	0.1501	
17 Phenanthrene	178	7.794	7.794	0.000	97	498555	1.29	
18 Anthracene	178	7.853	7.853	0.000	97	124361	0.3383	
19 Fluoranthene	202	9.126	9.126	0.000	98	869417	2.27	
20 Pyrene	202	9.372	9.372	0.000	97	676606	2.07	
21 Benzo[a]anthracene	228	10.645	10.645	0.000	93	368878	1.25	
22 Chrysene	228	10.682	10.682	0.000	92	335127	1.28	
23 Benzo[b]fluoranthene	252	11.800	11.795	0.005	98	329993	1.57	M
24 Benzo[k]fluoranthene	252	11.821	11.827	-0.006	95	111858	0.4966	M
25 Benzo[a]pyrene	252	12.201	12.196	0.005	97	187327	1.12	
26 Indeno[1,2,3-cd]pyrene	276	13.881	13.870	0.011	99	109622	0.4796	
27 Dibenz(a,h)anthracene	278	13.902	13.897	0.005	73	32249	0.2278	
28 Benzo[g,h,i]perylene	276	14.367	14.357	0.010	90	97196	0.6123	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

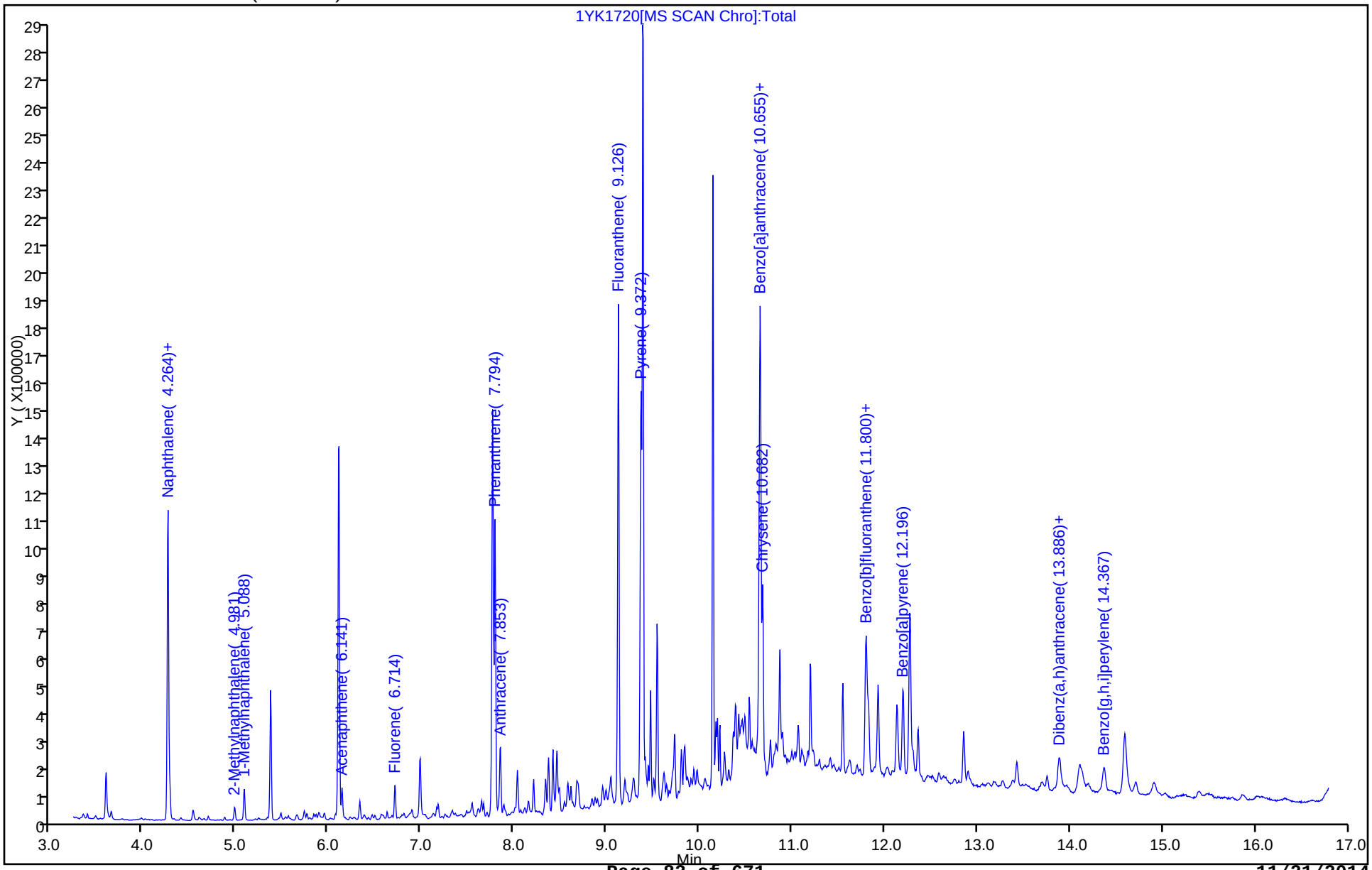
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Nov-2014 08:49:58 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Injection Date:	18-Nov-2014 18:07:30	Instrument ID:	CMSY	Operator ID:	
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3	Worklist Smp#:	20
Client ID:	FM0281A-CS18"				
Injection Vol:	2.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	20
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)

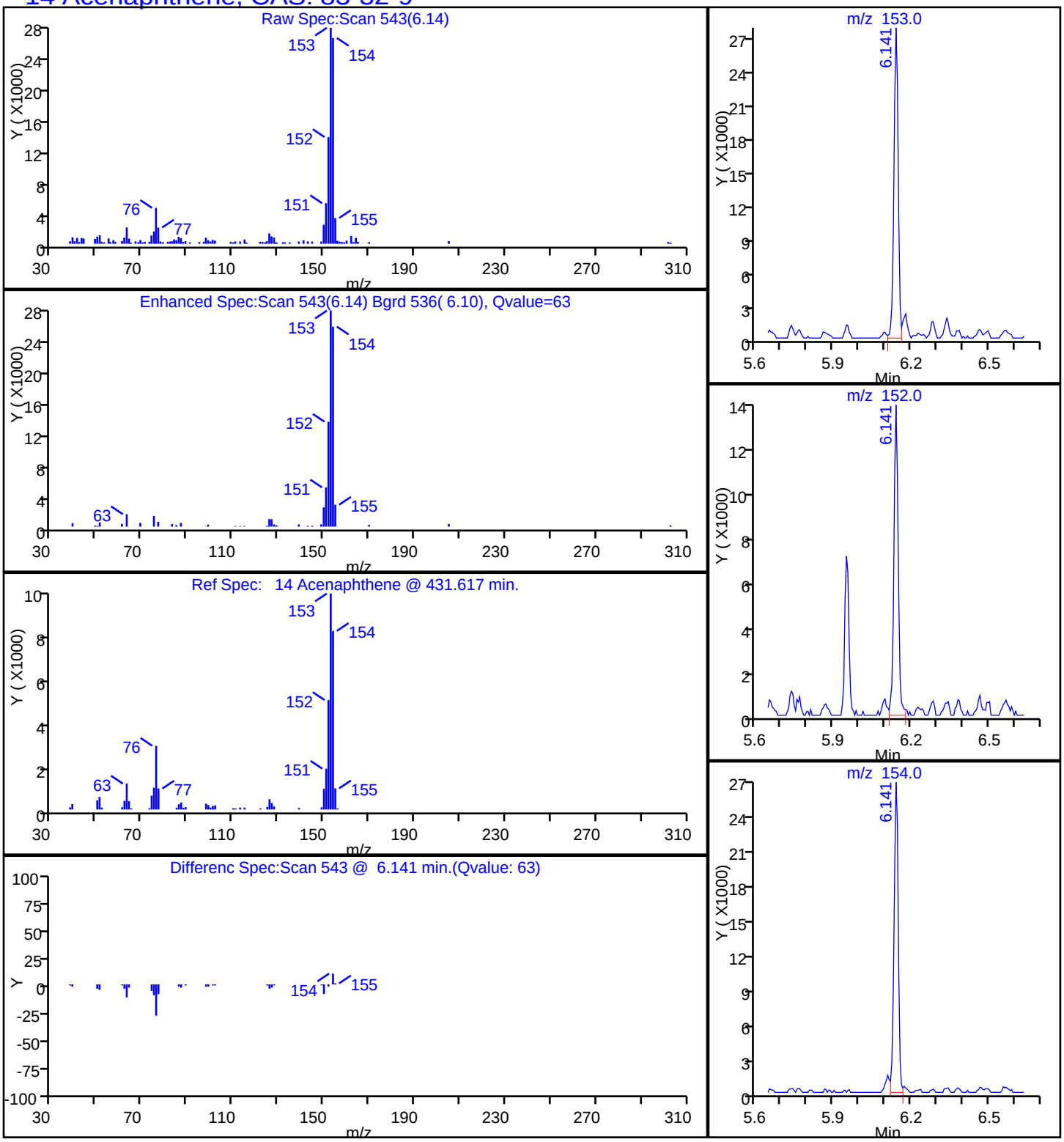


Report Date: 19-Nov-2014 08:49:58 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Injection Date:	18-Nov-2014 18:07:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3		
Client ID:	FM0281A-CS18"				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9

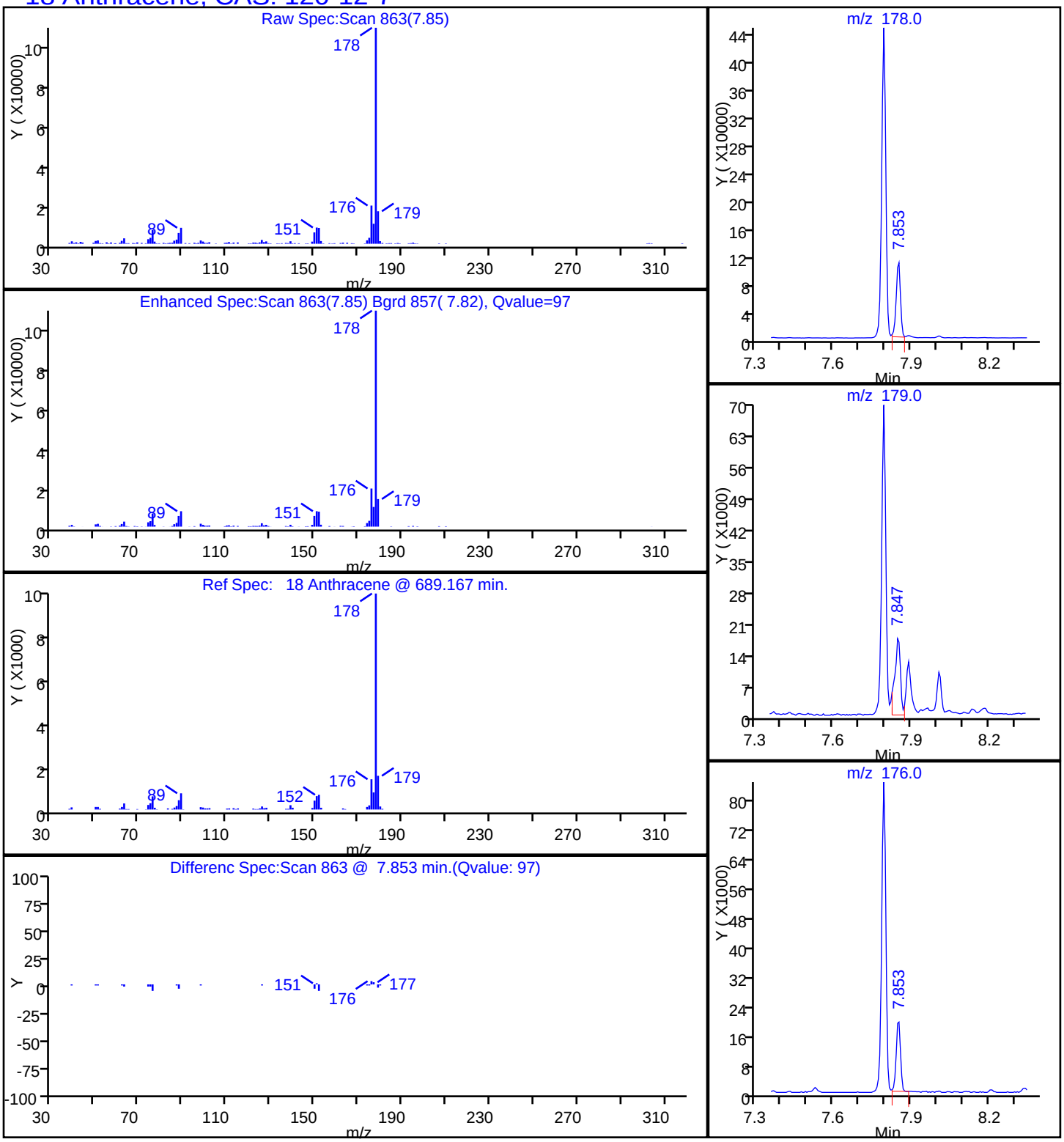


Report Date: 19-Nov-2014 08:49:58 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Injection Date:	18-Nov-2014 18:07:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3		
Client ID:	FM0281A-CS18"				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

18 Anthracene, CAS: 120-12-7

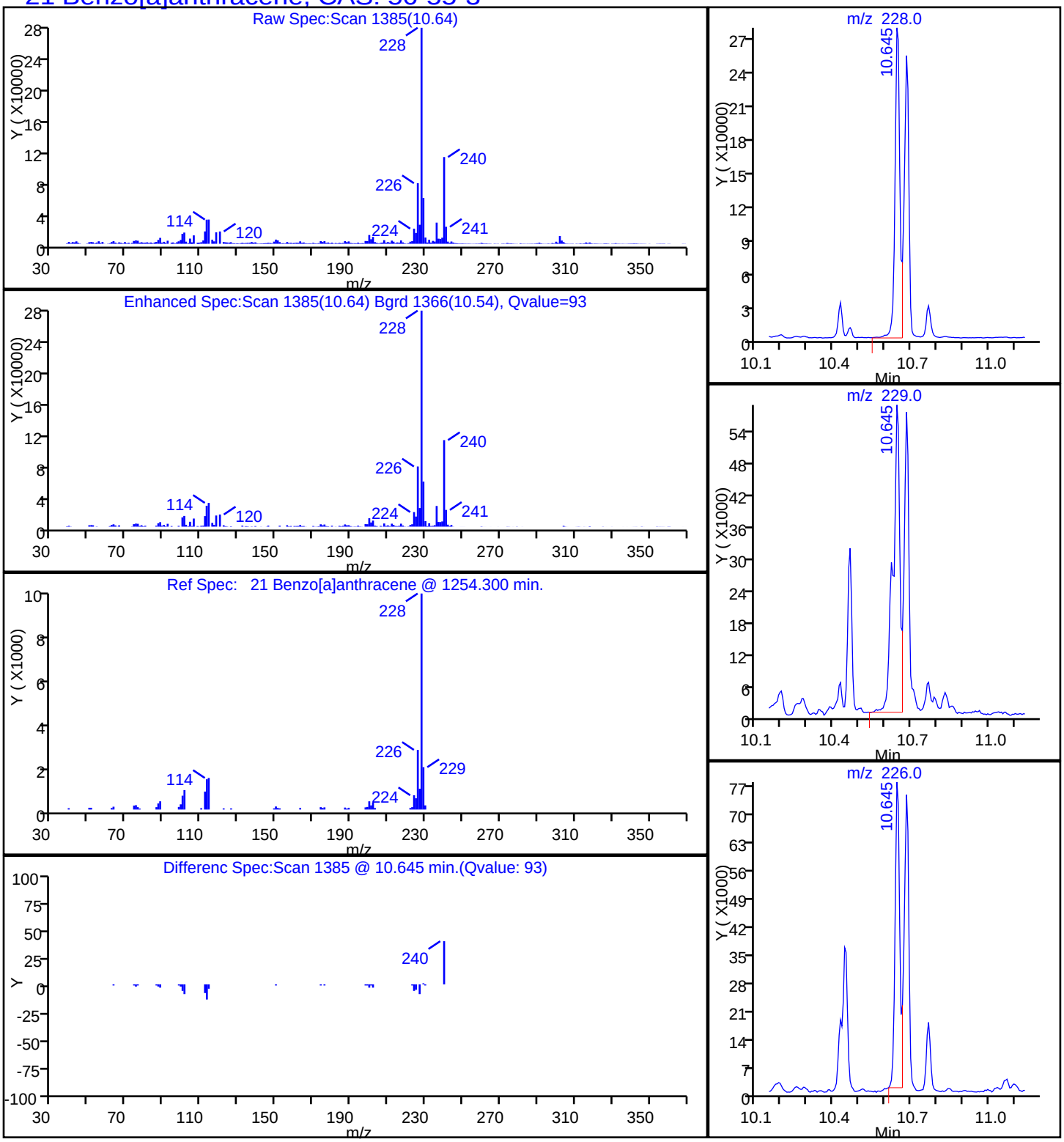


Report Date: 19-Nov-2014 08:49:59 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Injection Date:	18-Nov-2014 18:07:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3		
Client ID:	FM0281A-CS18"				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

21 Benzo[a]anthracene, CAS: 56-55-3

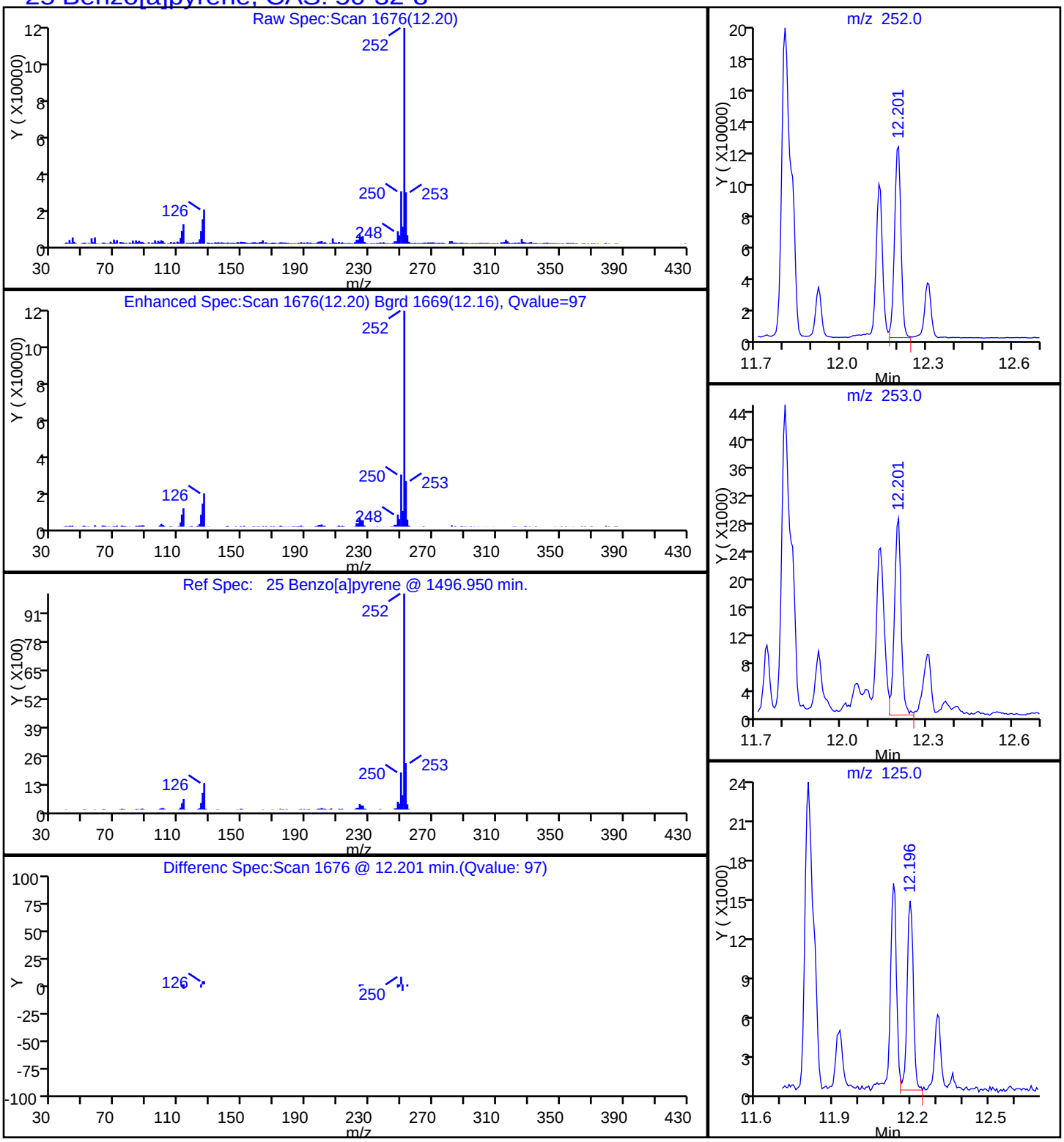


Report Date: 19-Nov-2014 08:49:59 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Injection Date:	18-Nov-2014 18:07:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3		
Client ID:	FM0281A-CS18"				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

25 Benzo[a]pyrene, CAS: 50-32-8

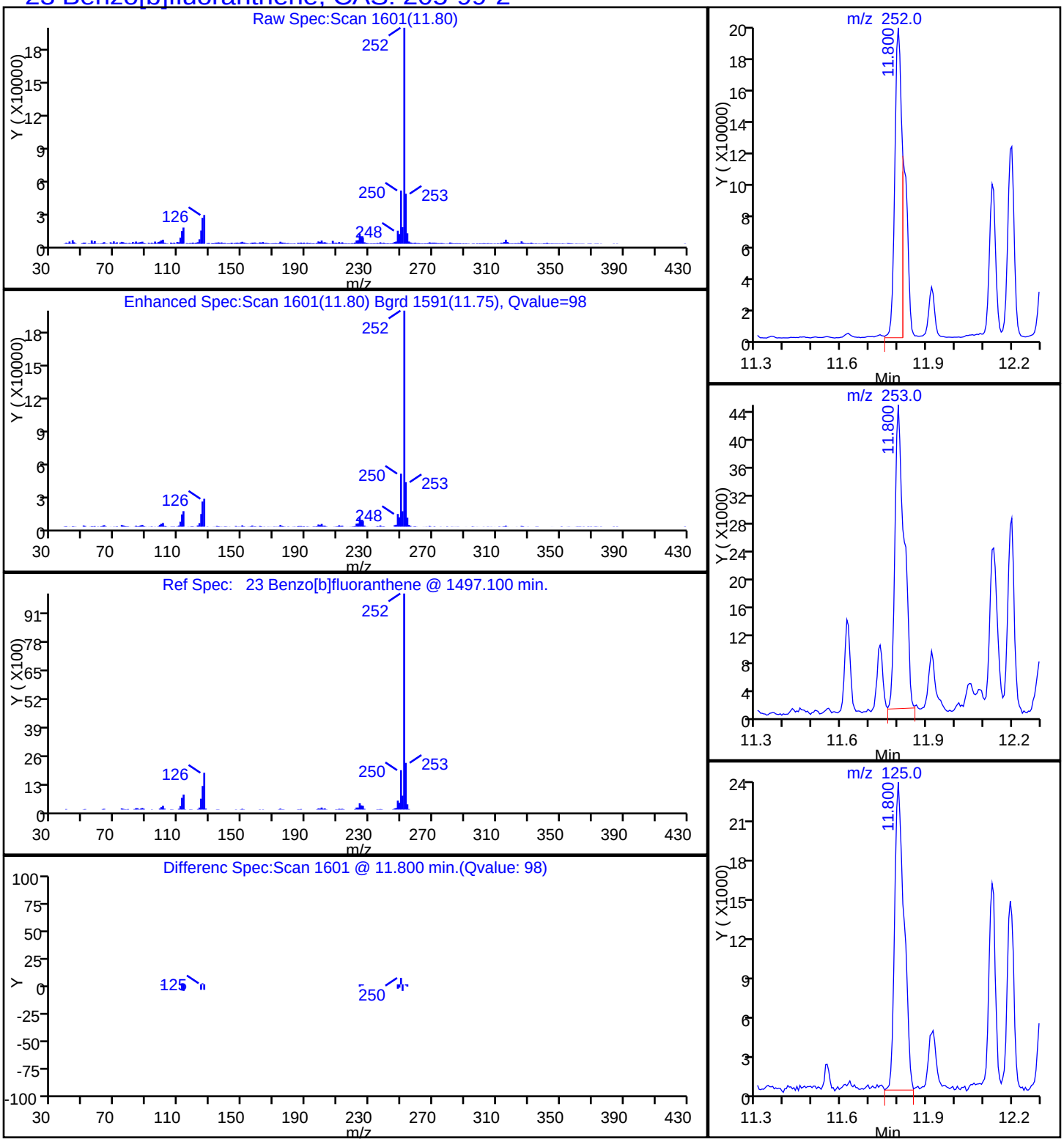


Report Date: 19-Nov-2014 08:49:59 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Injection Date:	18-Nov-2014 18:07:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3		
Client ID:	FM0281A-CS18"				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

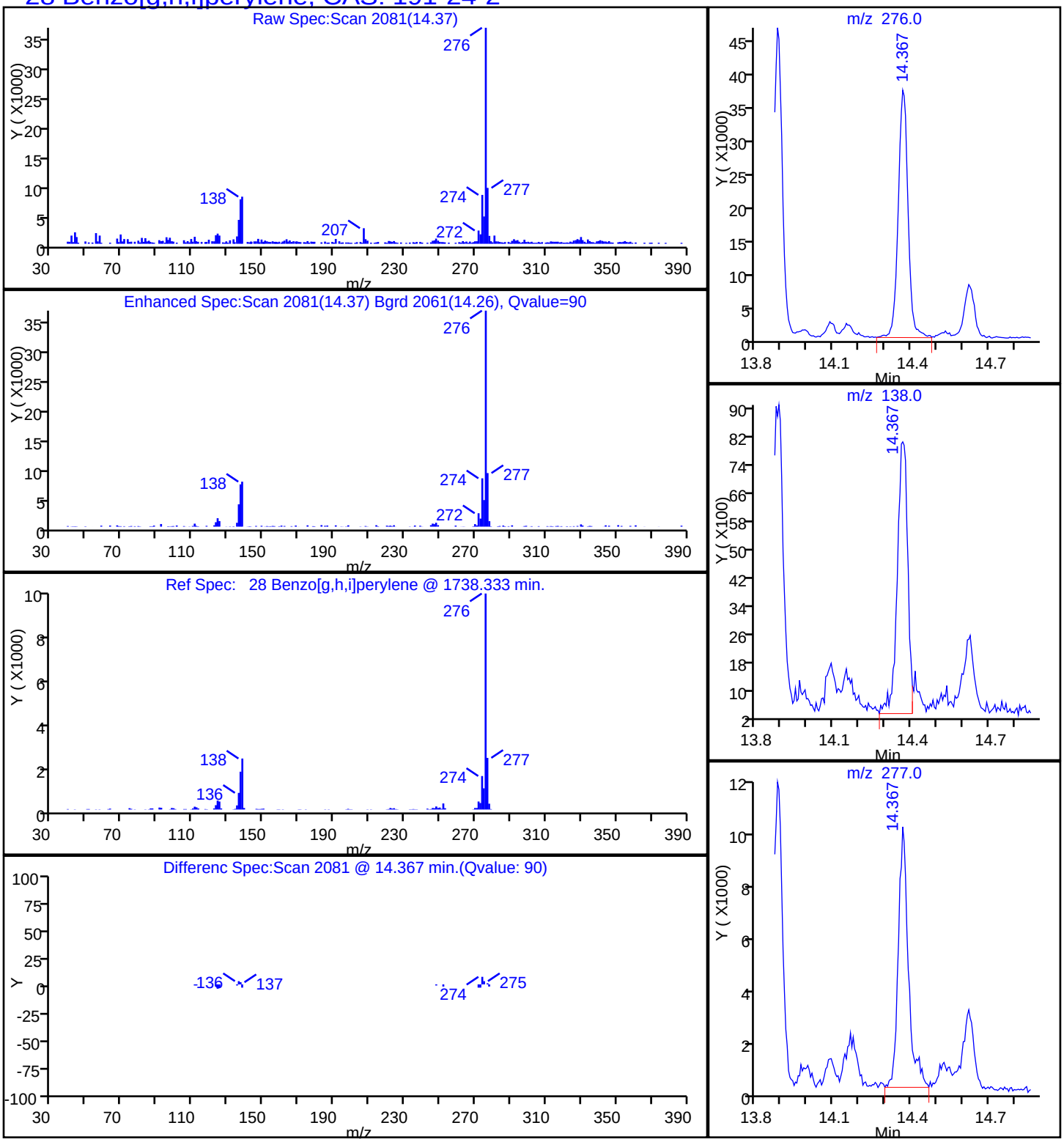


Report Date: 19-Nov-2014 08:49:59 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Injection Date:	18-Nov-2014 18:07:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3		
Client ID:	FM0281A-CS18"				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

28 Benzo[g,h,i]perylene, CAS: 191-24-2

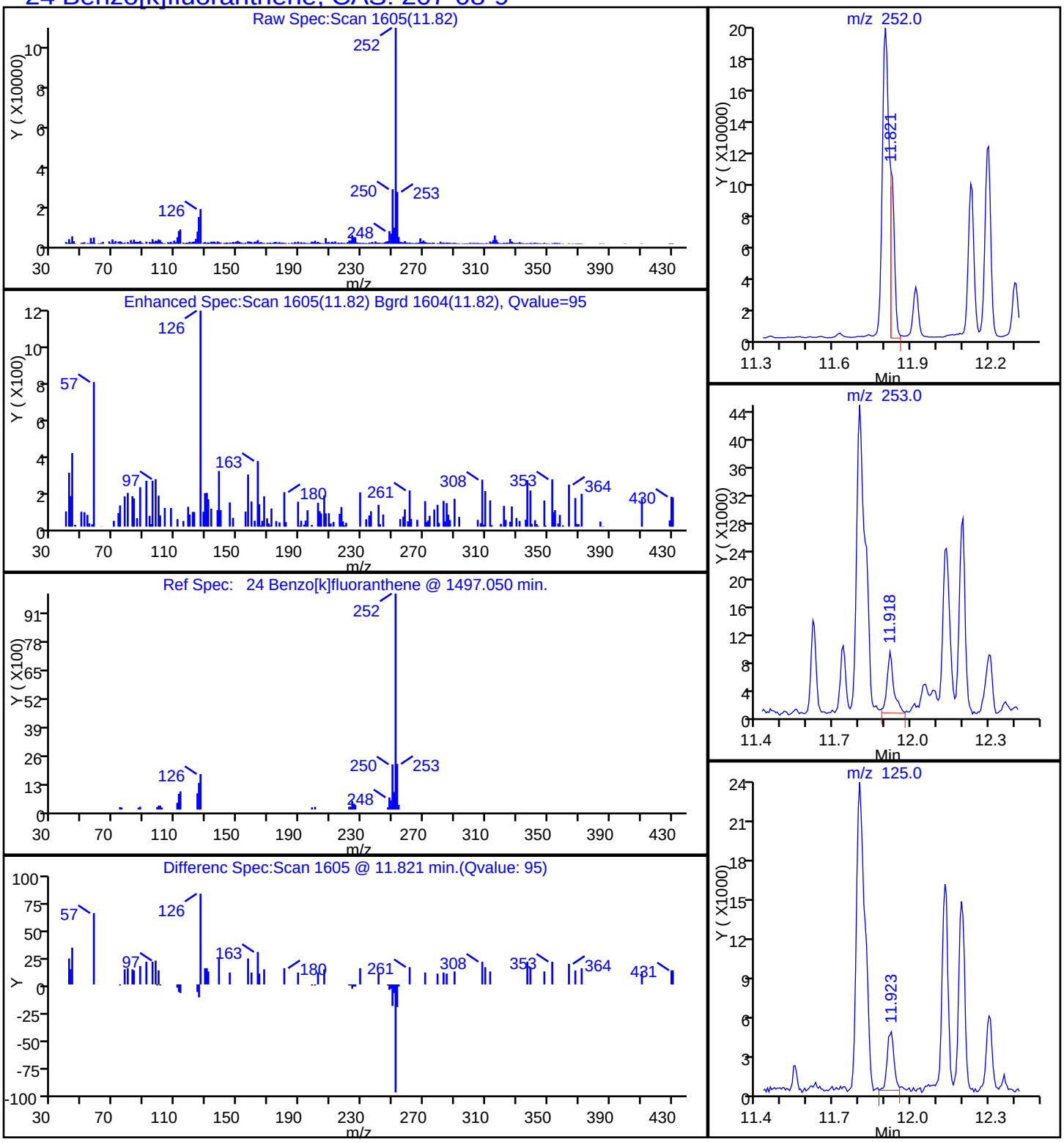


Report Date: 19-Nov-2014 08:49:59 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Injection Date:	18-Nov-2014 18:07:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3		
Client ID:	FM0281A-CS18"				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

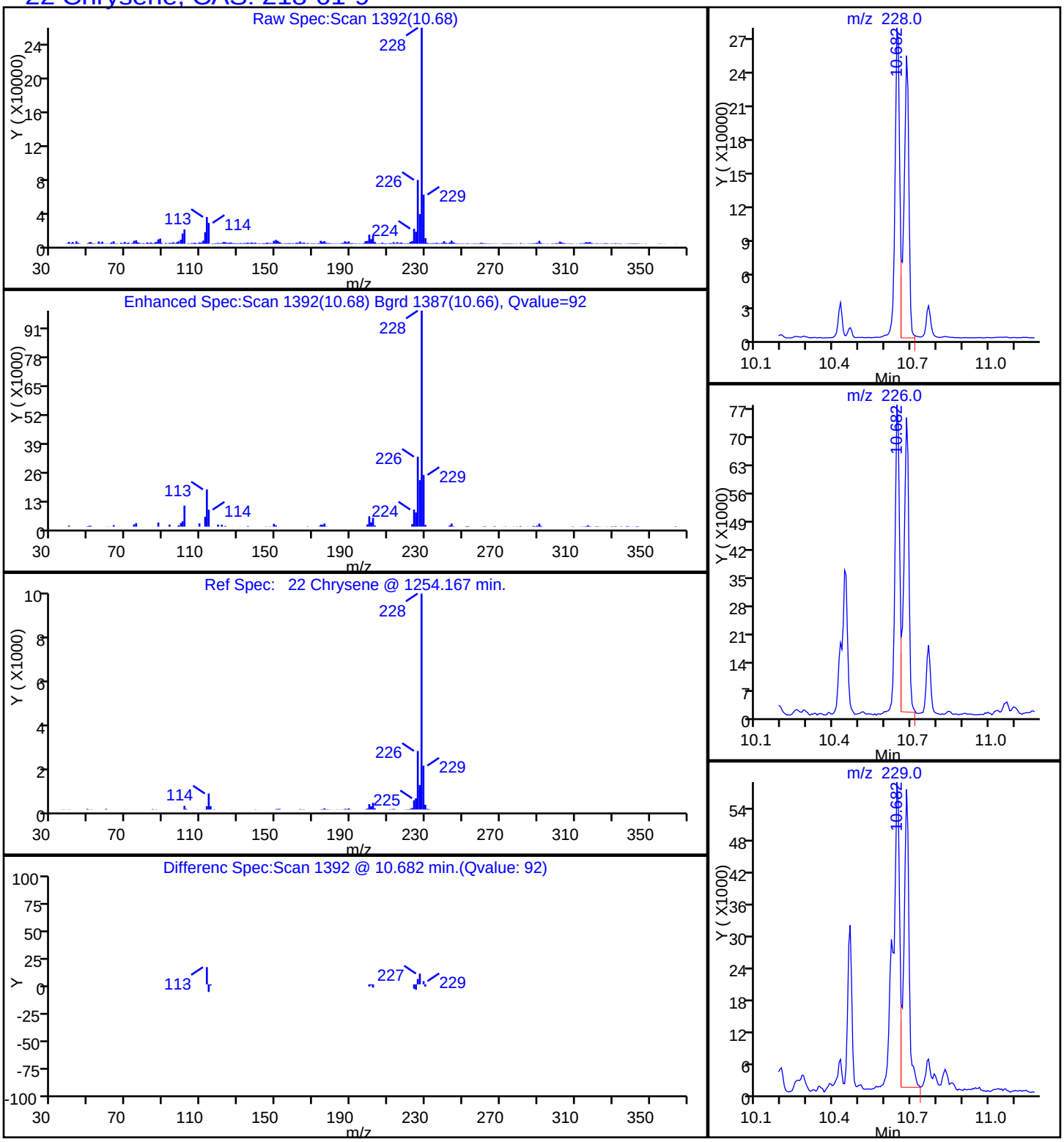


Report Date: 19-Nov-2014 08:49:59 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Injection Date:	18-Nov-2014 18:07:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3		
Client ID:	FM0281A-CS18"				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Chrysene, CAS: 218-01-9

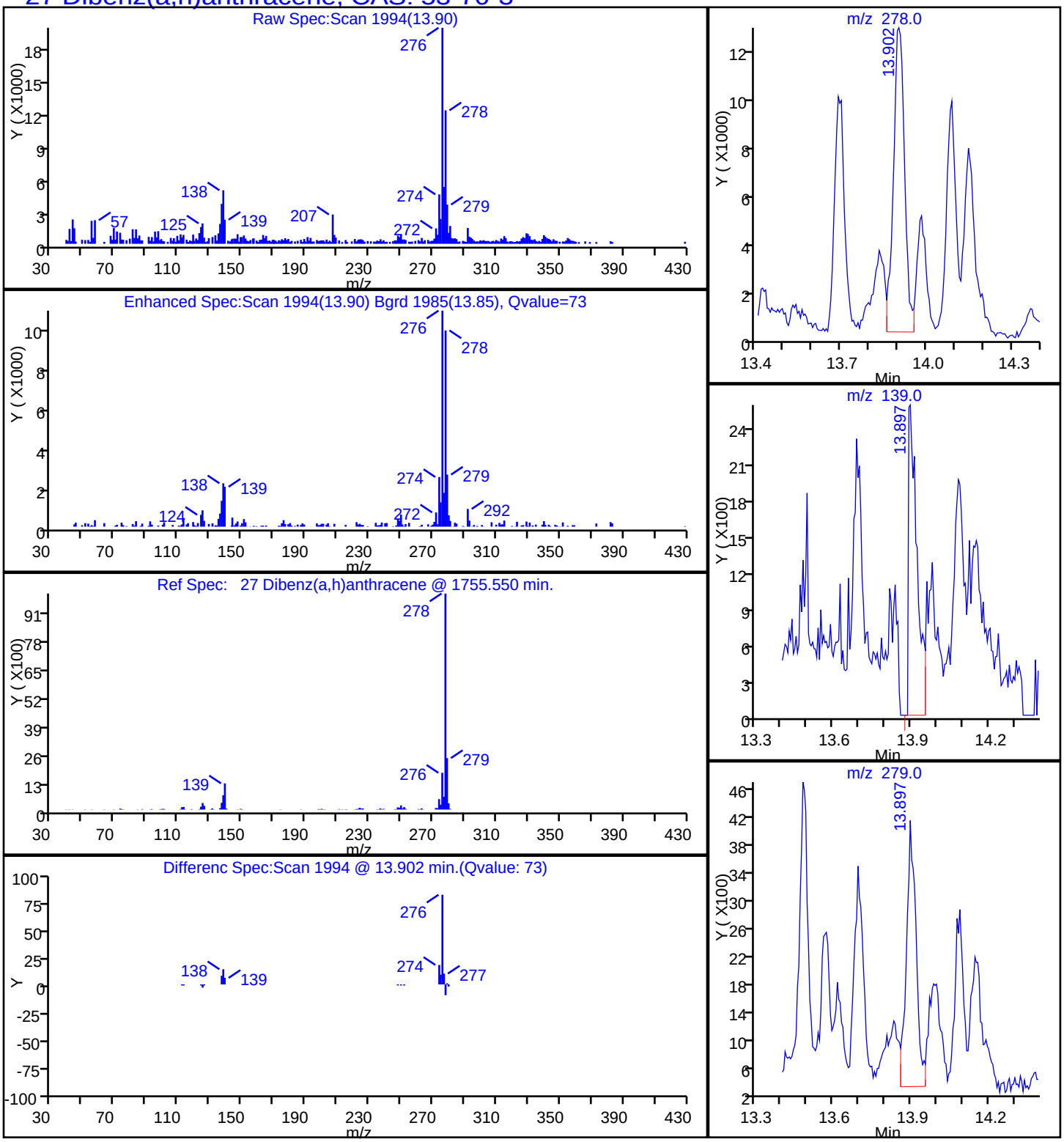


Report Date: 19-Nov-2014 08:49:59 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Injection Date:	18-Nov-2014 18:07:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3		
Client ID:	FM0281A-CS18"				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

27 Dibenz(a,h)anthracene, CAS: 53-70-3

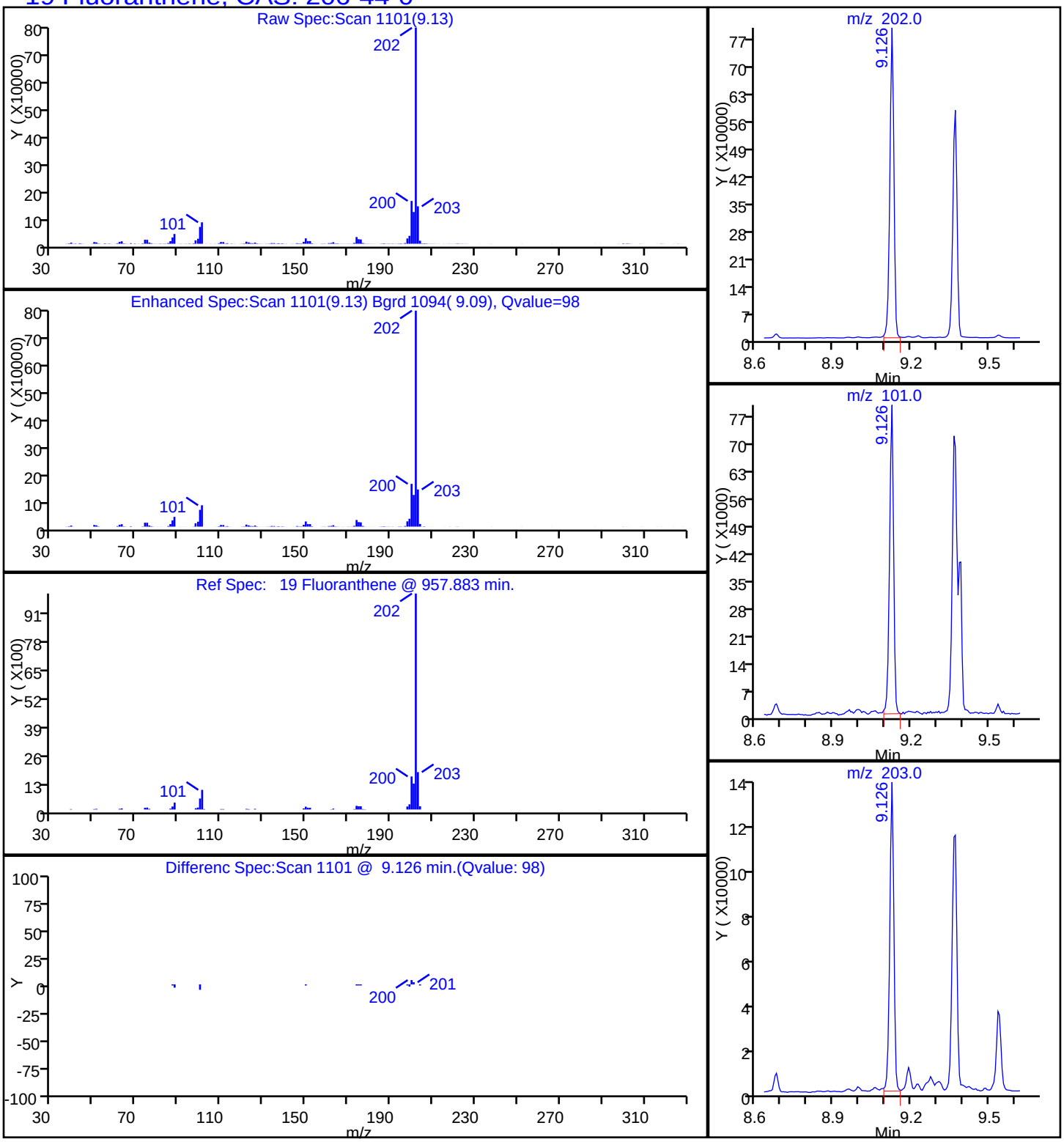


Report Date: 19-Nov-2014 08:49:59 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Injection Date:	18-Nov-2014 18:07:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3		
Client ID:	FM0281A-CS18"				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 Fluoranthene, CAS: 206-44-0

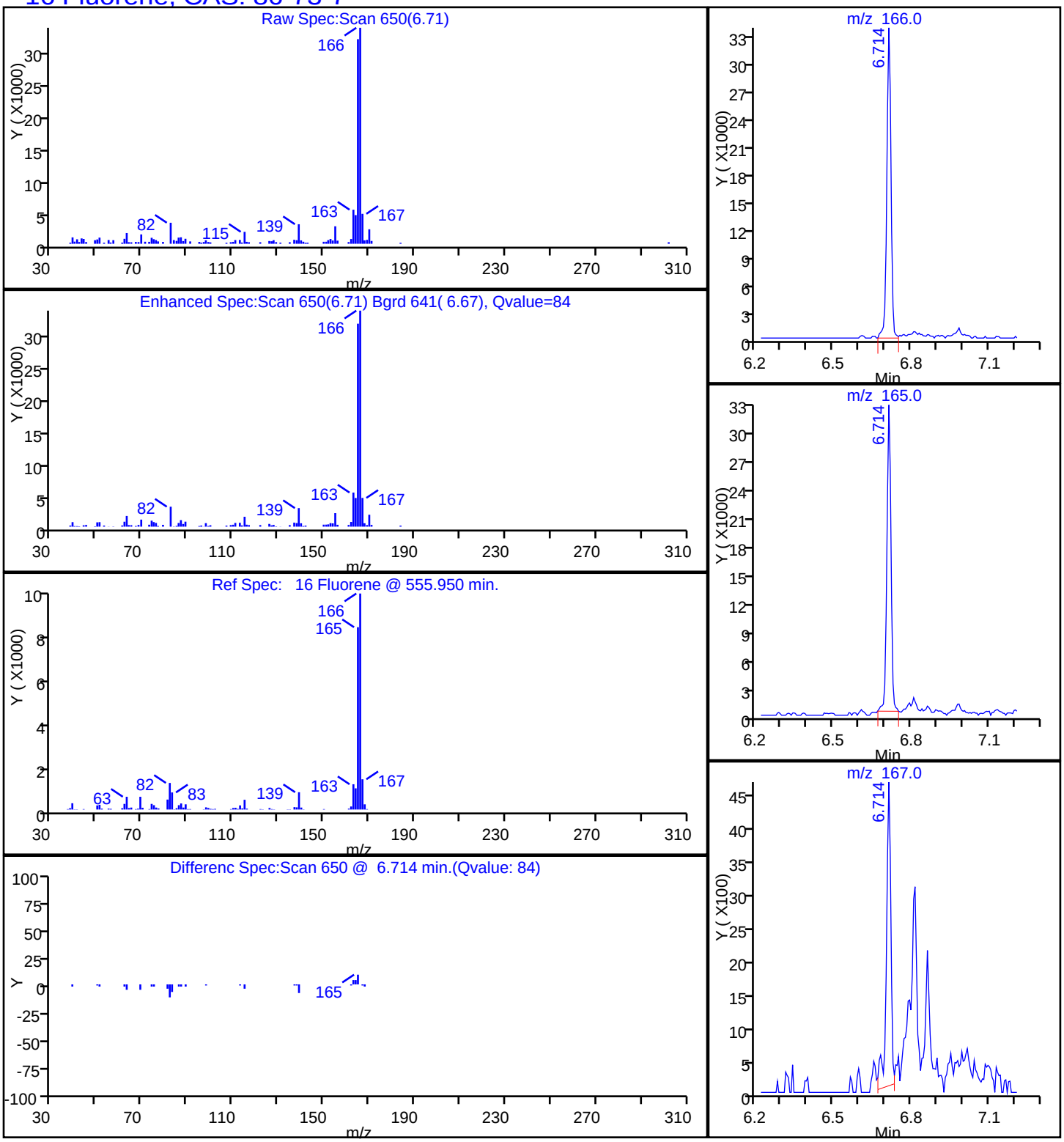


Report Date: 19-Nov-2014 08:49:58 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Injection Date:	18-Nov-2014 18:07:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3		
Client ID:	FM0281A-CS18"				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

16 Fluorene, CAS: 86-73-7

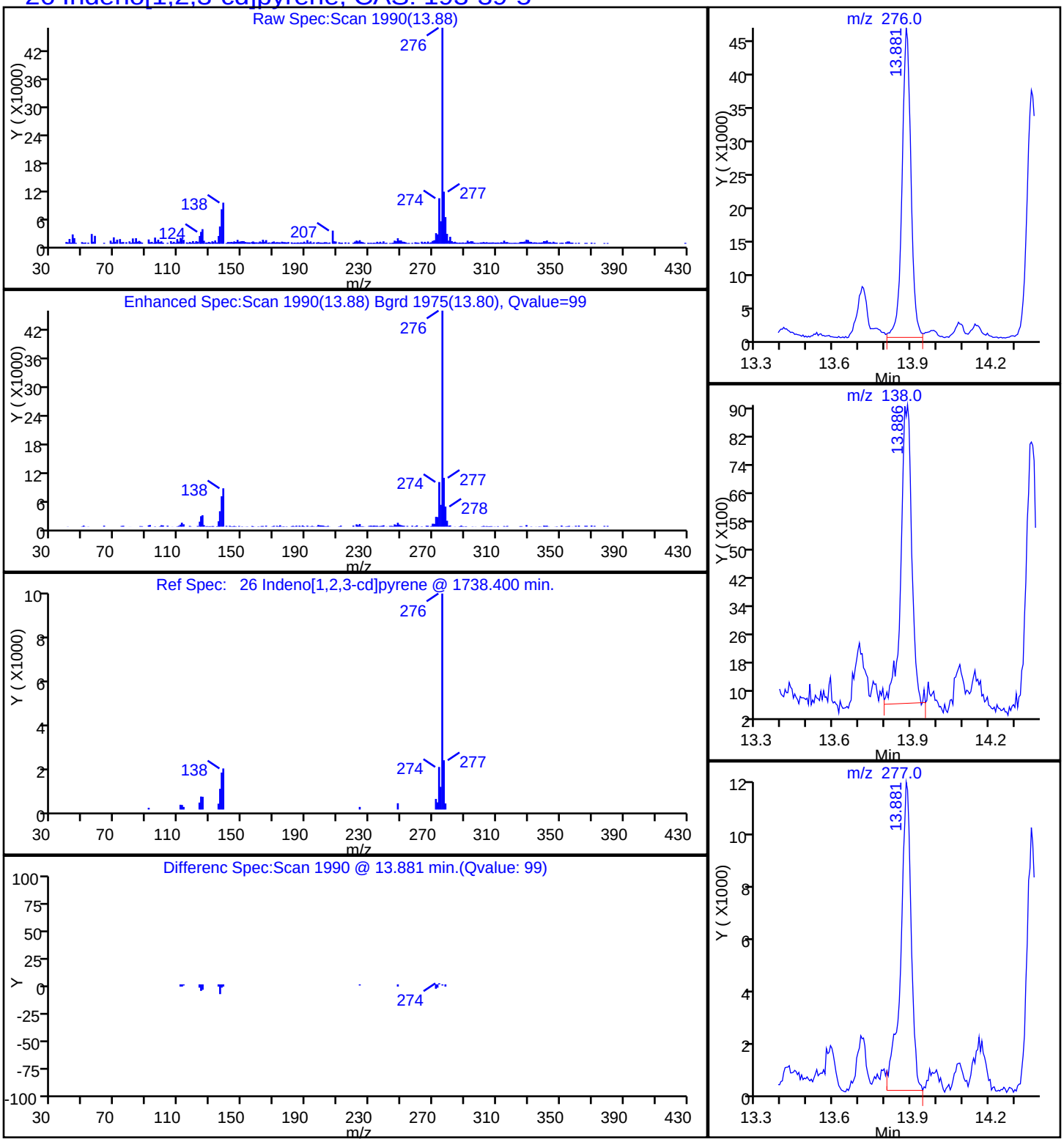


Report Date: 19-Nov-2014 08:49:59 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Injection Date:	18-Nov-2014 18:07:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3		
Client ID:	FM0281A-CS18"				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

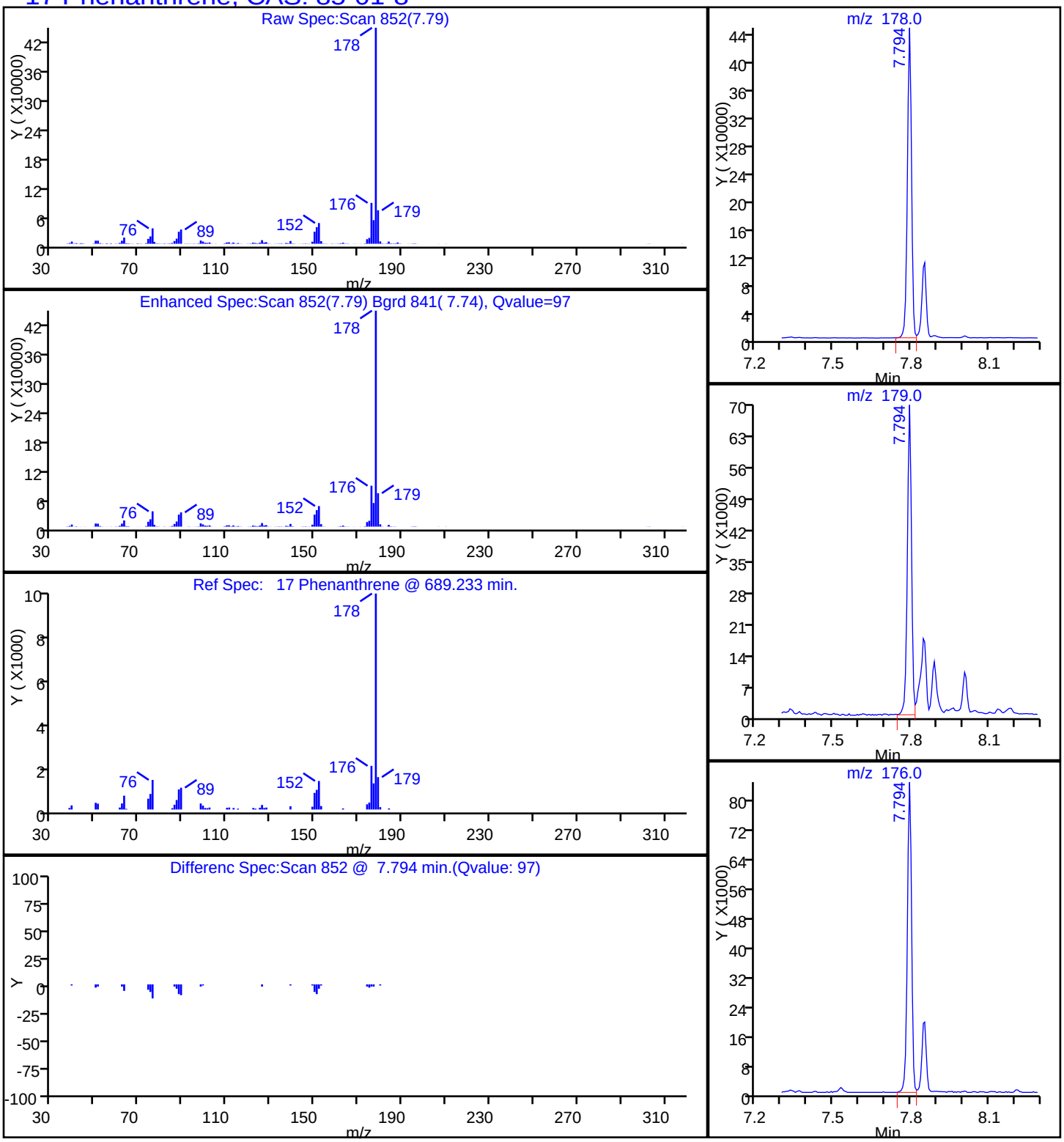


Report Date: 19-Nov-2014 08:49:58 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Injection Date:	18-Nov-2014 18:07:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3		
Client ID:	FM0281A-CS18"				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Phenanthrene, CAS: 85-01-8

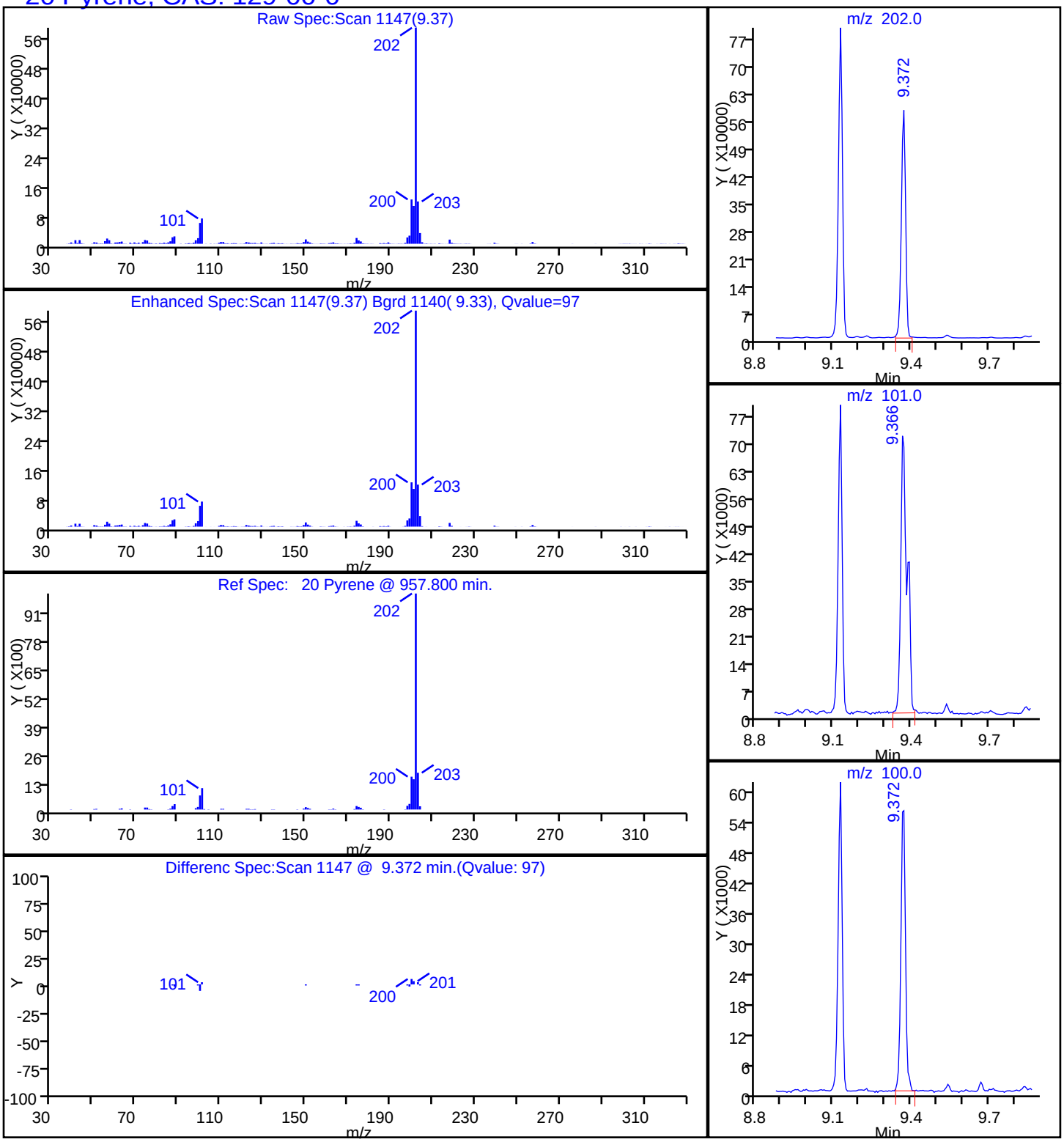


Report Date: 19-Nov-2014 08:49:59 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Injection Date:	18-Nov-2014 18:07:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3		
Client ID:	FM0281A-CS18"				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

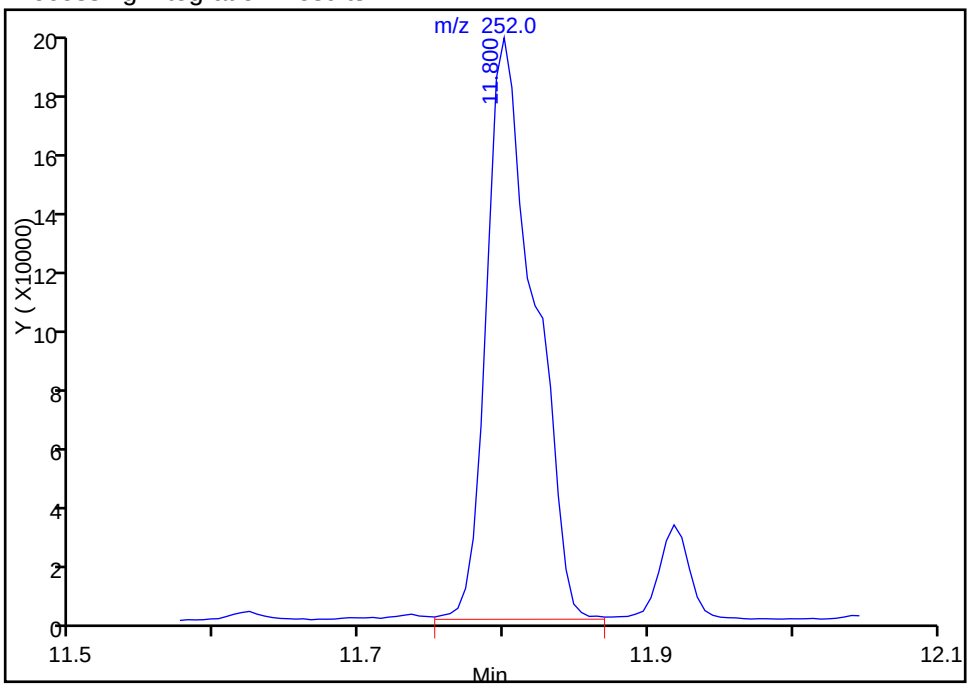
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Injection Date:	18-Nov-2014 18:07:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3		
Client ID:	FM0281A-CS18"				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

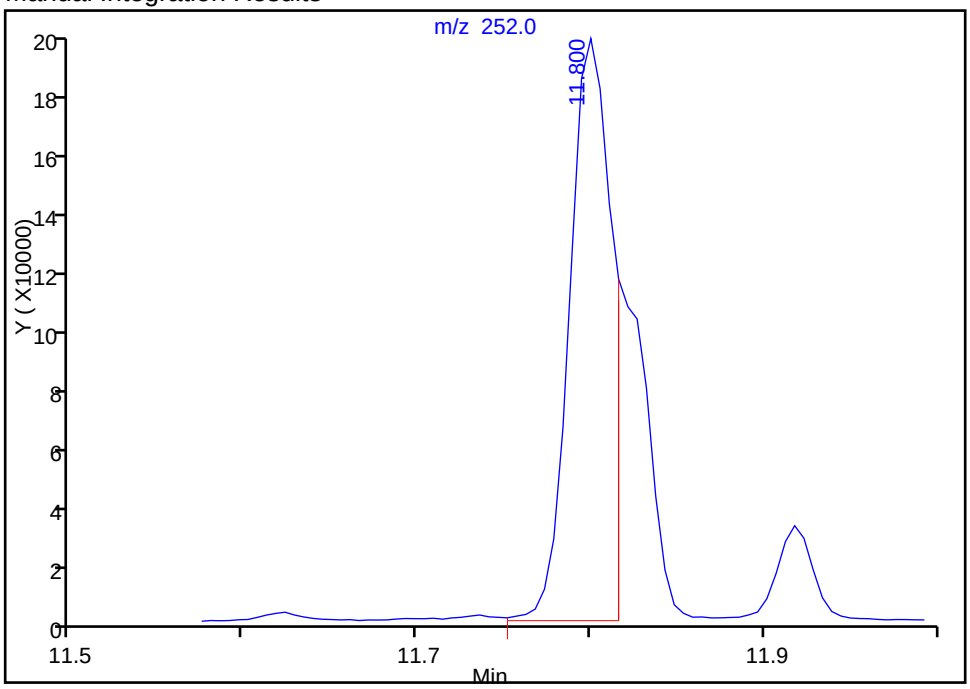
Processing Integration Results

RT: 11.80
Response: 440381
Amount: 2.089260



Manual Integration Results

RT: 11.80
Response: 329993
Amount: 1.565556



Reviewer: webbk, 19-Nov-2014 07:58:01
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

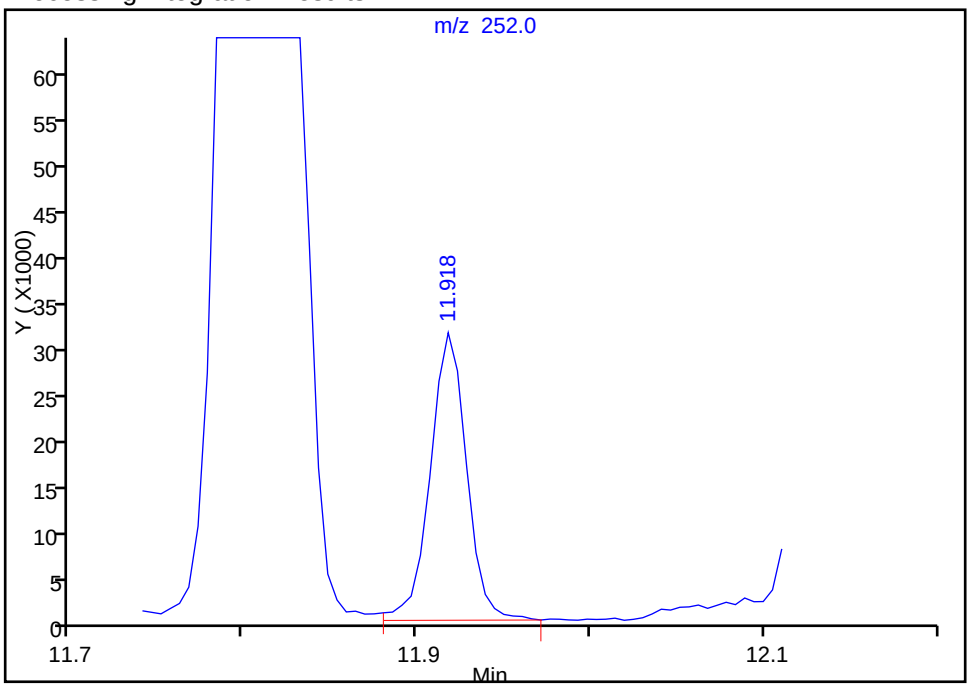
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1720.D				
Injection Date:	18-Nov-2014 18:07:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-3-A	Lab Sample ID:	680-107159-3		
Client ID:	FM0281A-CS18"				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

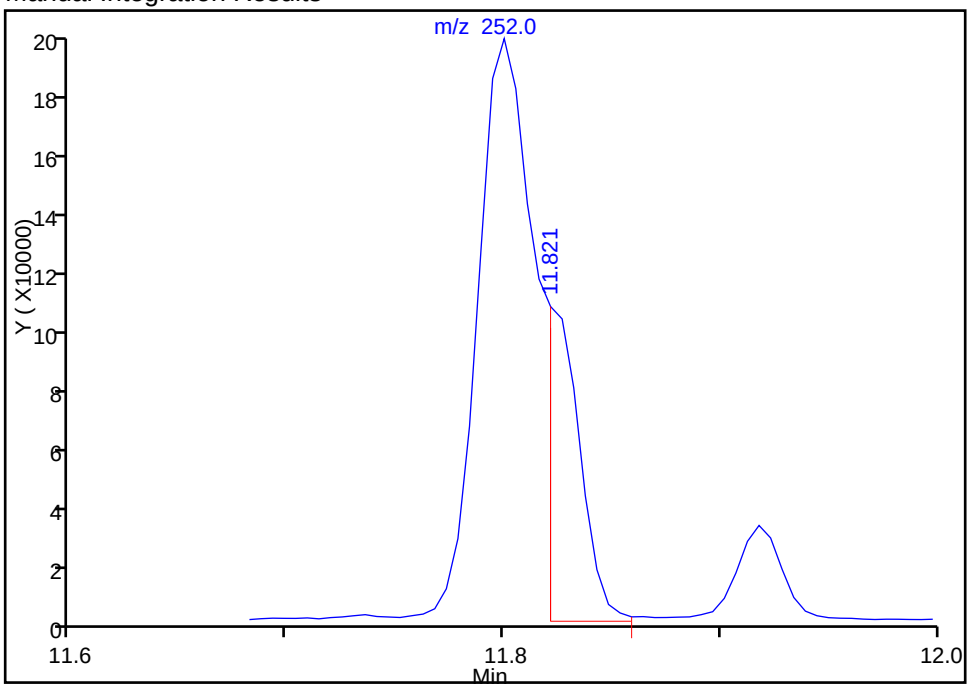
Processing Integration Results

RT: 11.92
Response: 45425
Amount: 0.200722



Manual Integration Results

RT: 11.82
Response: 111858
Amount: 0.496561



Reviewer: webbk, 19-Nov-2014 07:58:01
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281A-CS24" | Lab Sample ID: 680-107159-4

Matrix: Solid | Lab File ID: 1YK1721.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 09:01

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 29.99(g) | Date Analyzed: 11/18/2014 18:29

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 15.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	7.9	U	7.9	3.9
208-96-8	Acenaphthylene	7.9	U	7.9	3.9
120-12-7	Anthracene	7.9	U	7.9	3.9
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	7.9	U	7.9	1.4
205-99-2	Benzo[b]fluoranthene	7.9	U	7.9	3.9
191-24-2	Benzo[g,h,i]perylene	7.9	U	7.9	3.9
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	2.4
218-01-9	Chrysene	7.9	U	7.9	3.9
53-70-3	Dibenz(a,h)anthracene	7.9	U	7.9	3.9
206-44-0	Fluoranthene	7.9	U	7.9	3.9
86-73-7	Fluorene	7.9	U	7.9	3.9
193-39-5	Indeno[1,2,3-cd]pyrene	7.9	U	7.9	3.9
90-12-0	1-Methylnaphthalene	7.9	U	7.9	3.7
91-57-6	2-Methylnaphthalene	7.9	U	7.9	3.9
91-20-3	Naphthalene	7.9	U	7.9	3.9
85-01-8	Phenanthrene	7.9	U	7.9	2.8
129-00-0	Pyrene	7.9	U	7.9	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	98		36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1721.D				
Lims ID:	680-107159-B-4-A	Lab Sample ID:	680-107159-4		
Client ID:	FM0281A-CS24"				
Sample Type:	Client				
Inject. Date:	18-Nov-2014 18:29:30	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Sample Info:	107159-B-4-A				
Misc. Info.:	680-0014871-021				
Operator ID:		Instrument ID:	CMSY		
Method:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m				
Limit Group:	8270D_LL_PAH				
Last Update:	19-Nov-2014 08:10:37	Calib Date:	18-Nov-2014 13:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D				
Column 1 :	Restek RXi-5Sil MS (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: webbk		Date:	19-Nov-2014 07:58:18		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.248	4.264	-0.016	99	530922	2.00	
* 2 Acenaphthene-d10	164	6.104	6.109	-0.005	92	303672	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	534592	2.00	
* 4 Chrysene-d12	240	10.655	10.655	0.000	99	443410	2.00	
* 5 Perylene-d12	264	12.271	12.265	0.006	99	298916	2.00	
$ 6 o-Terphenyl	230	8.211	8.211	0.000	90	273447	1.96	

Reagents:

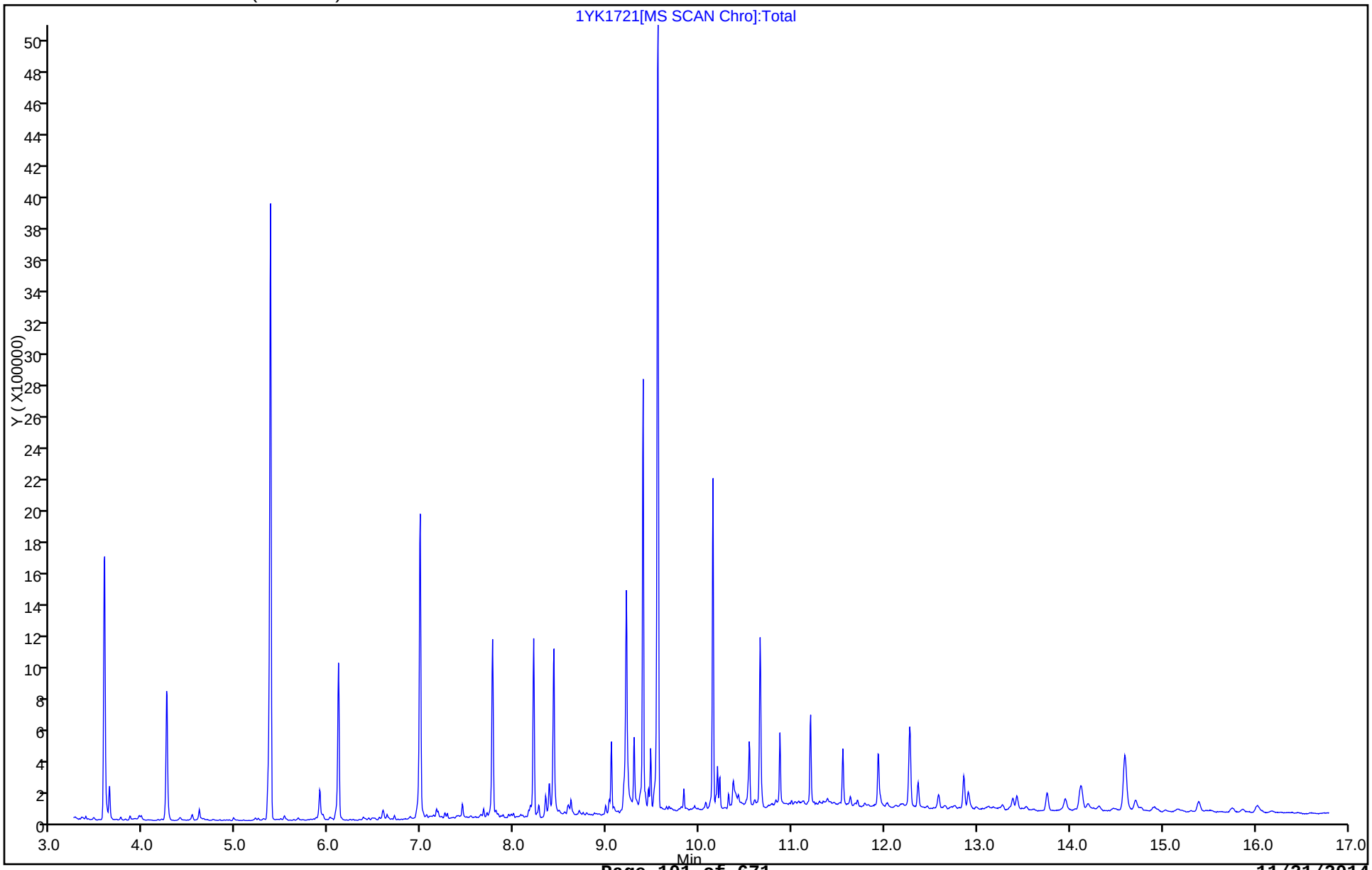
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Nov-2014 08:50:00 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1721.D				
Injection Date:	18-Nov-2014 18:29:30	Instrument ID:	CMSY	Operator ID:	
Lims ID:	680-107159-B-4-A	Lab Sample ID:	680-107159-4	Worklist Smp#:	21
Client ID:	FM0281A-CS24"				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281A-CSD6" | Lab Sample ID: 680-107159-5

Matrix: Solid | Lab File ID: 2YK2006.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 08:36

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.01(g) | Date Analyzed: 11/20/2014 16:13

Con. Extract Vol.: 1(mL) | Dilution Factor: 500

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 14.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	25000		3900	1900
208-96-8	Acenaphthylene	3900	U	3900	1900
120-12-7	Anthracene	51000		3900	1900
56-55-3	Benzo[a]anthracene	97000		3900	1900
50-32-8	Benzo[a]pyrene	80000		3900	700
205-99-2	Benzo[b]fluoranthene	97000		3900	1900
191-24-2	Benzo[g,h,i]perylene	42000		3900	1900
207-08-9	Benzo[k]fluoranthene	33000		3900	1200
218-01-9	Chrysene	100000		3900	1900
53-70-3	Dibenz(a,h)anthracene	16000		3900	1900
206-44-0	Fluoranthene	240000		3900	1900
86-73-7	Fluorene	26000		3900	1900
193-39-5	Indeno[1,2,3-cd]pyrene	42000		3900	1900
90-12-0	1-Methylnaphthalene	3400	J	3900	1800
91-57-6	2-Methylnaphthalene	5700		3900	1900
91-20-3	Naphthalene	16000		3900	1900
85-01-8	Phenanthrene	200000		3900	1400
129-00-0	Pyrene	170000		3900	1900

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D
Lims ID: 680-107159-B-5-A Lab Sample ID: 680-107159-5
Client ID: FM0281A-CSD6"
Sample Type: Client
Inject. Date: 20-Nov-2014 16:13:30 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 500.0000
Sample Info: 107159-A-5-A 1:500
Misc. Info.: 680-0014972-006
Operator ID: Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141120-14972.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 21-Nov-2014 06:47:33 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: webbk Date: 21-Nov-2014 06:36:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.978	3.978	0.000	99	218942	2.00	
* 2 Acenaphthene-d10	164	5.802	5.802	0.000	92	116303	2.00	
* 3 Phenanthrene-d10	188	7.449	7.449	0.000	97	205262	2.00	
* 4 Chrysene-d12	240	10.343	10.343	0.000	98	211311	2.00	
* 5 Perylene-d12	264	11.835	11.830	0.005	98	179438	2.00	
7 Naphthalene	128	3.994	3.999	-0.005	97	93782	0.8139	
9 2-Methylnaphthalene	142	4.689	4.695	-0.006	81	21892	0.2935	
10 1-Methylnaphthalene	142	4.791	4.796	-0.005	78	11936	0.1755	
14 Acenaphthene	153	5.834	5.839	-0.005	88	91777	1.26	
16 Fluorene	166	6.401	6.406	-0.005	84	105167	1.35	
17 Phenanthrene	178	7.476	7.476	0.000	97	1122855	10.1	
18 Anthracene	178	7.530	7.535	-0.005	99	295056	2.62	
19 Fluoranthene	202	8.808	8.808	0.000	98	1461243	12.4	
20 Pyrene	202	9.054	9.054	0.000	97	1117898	8.79	
21 Benzo[a]anthracene	228	10.332	10.332	0.000	97	588242	4.99	
22 Chrysene	228	10.364	10.370	-0.006	89	536280	5.16	
23 Benzo[b]fluoranthene	252	11.418	11.413	0.005	98	548511	4.96	M
24 Benzo[k]fluoranthene	252	11.434	11.439	-0.005	96	198978	1.72	M
25 Benzo[a]pyrene	252	11.771	11.771	0.000	97	360080	4.10	
26 Indeno[1,2,3-cd]pyrene	276	13.247	13.253	-0.006	99	196830	2.15	
27 Dibenz(a,h)anthracene	278	13.269	13.285	-0.016	86	59365	0.7991	
28 Benzo[g,h,i]perylene	276	13.670	13.680	-0.010	91	177650	2.13	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

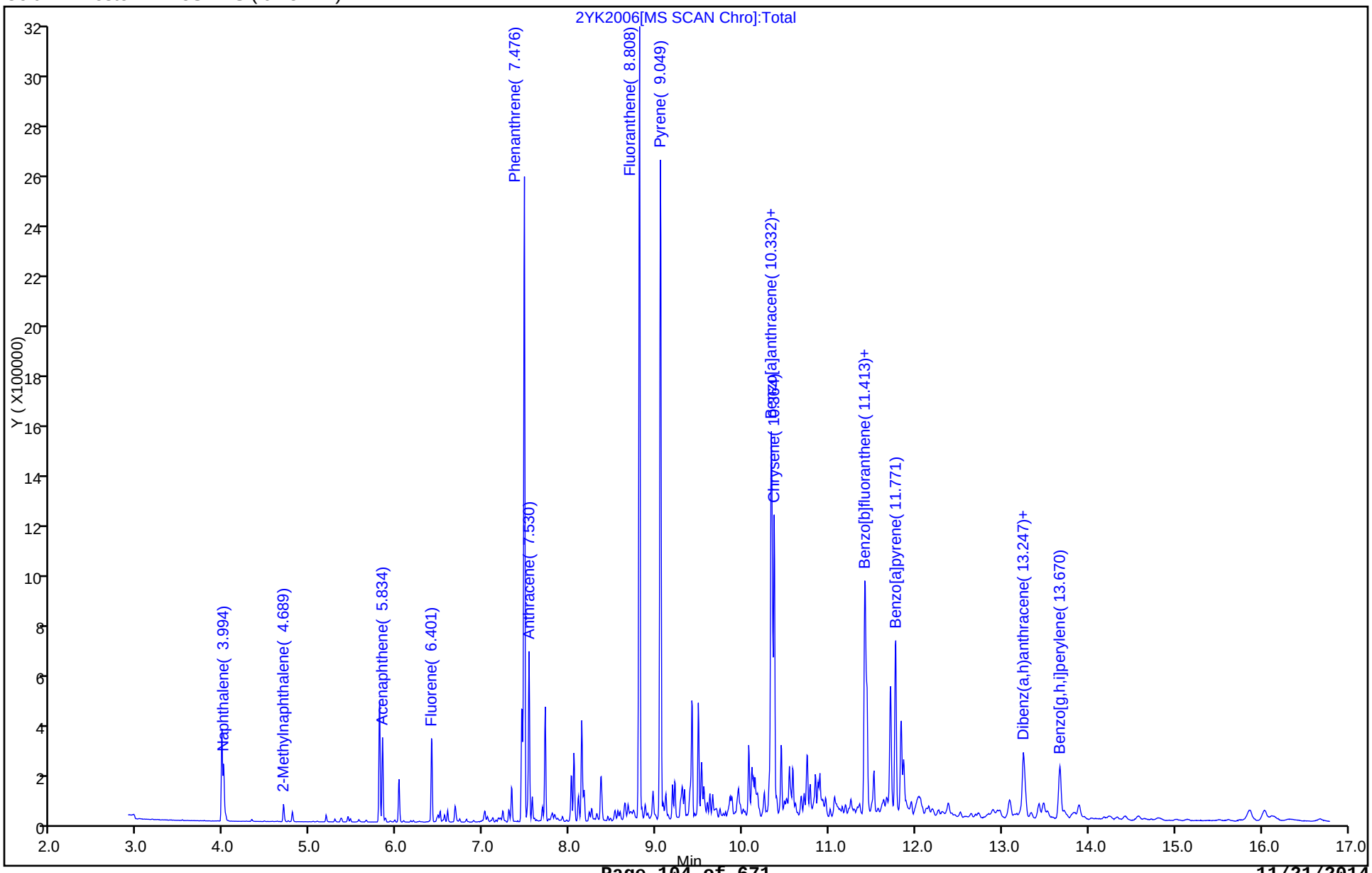
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 21-Nov-2014 06:47:36 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY	Operator ID:	
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5	Worklist Smp#:	6
Client ID:	FM0281A-CSD6"				
Injection Vol:	2.0 ul	Dil. Factor:	500.0000	ALS Bottle#:	5
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)

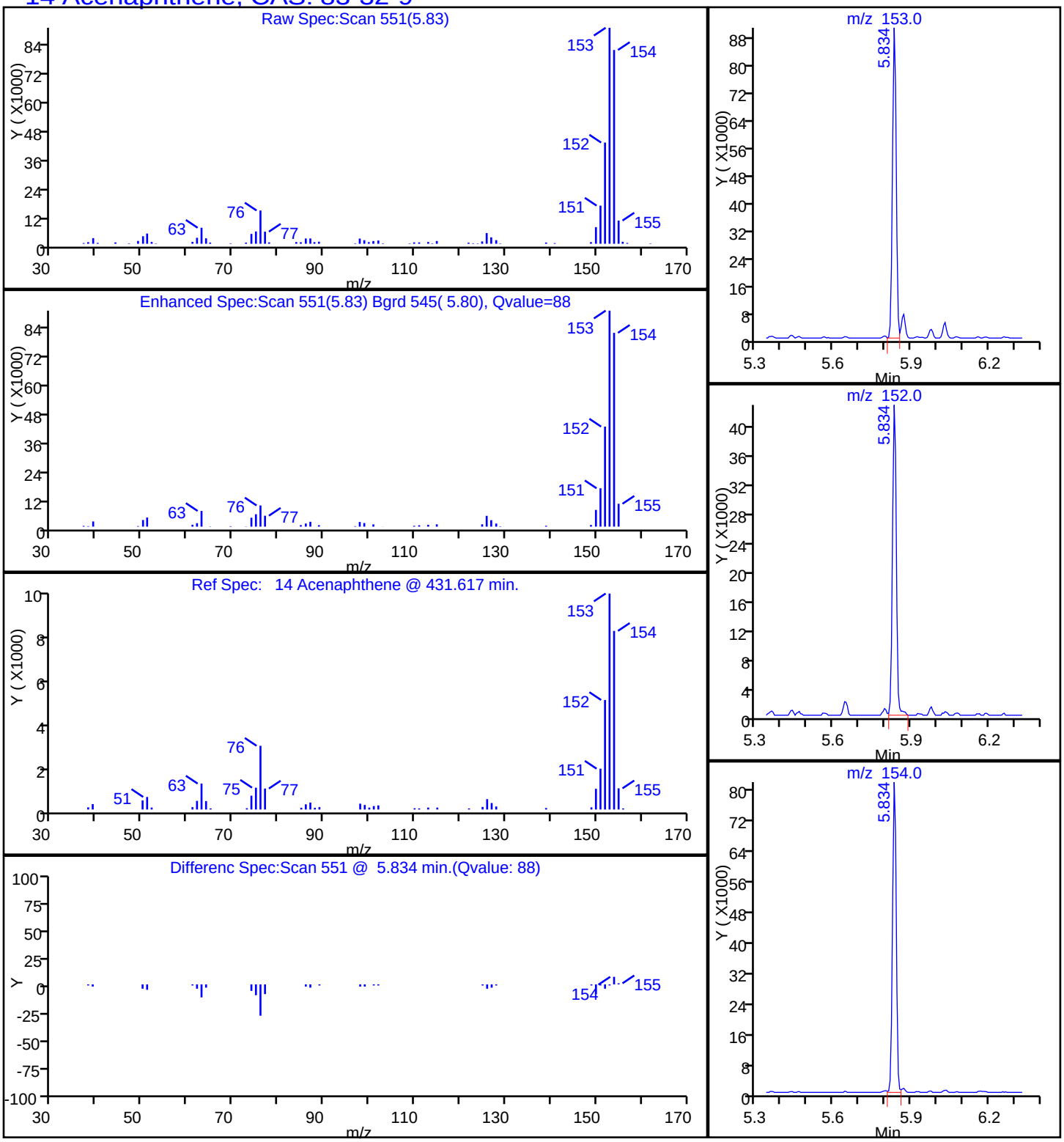


Report Date: 21-Nov-2014 06:47:36 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9

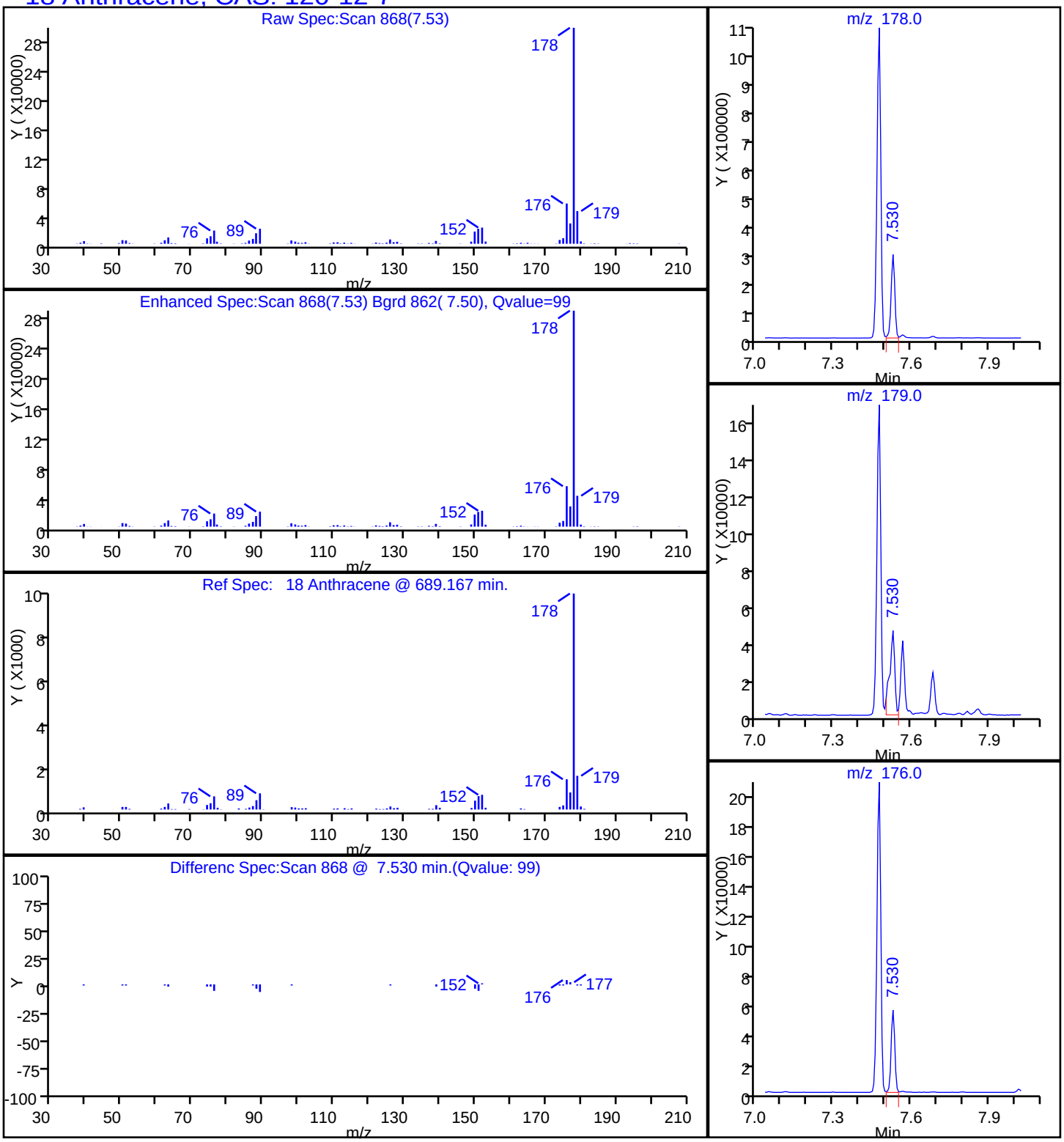


Report Date: 21-Nov-2014 06:47:36 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

18 Anthracene, CAS: 120-12-7

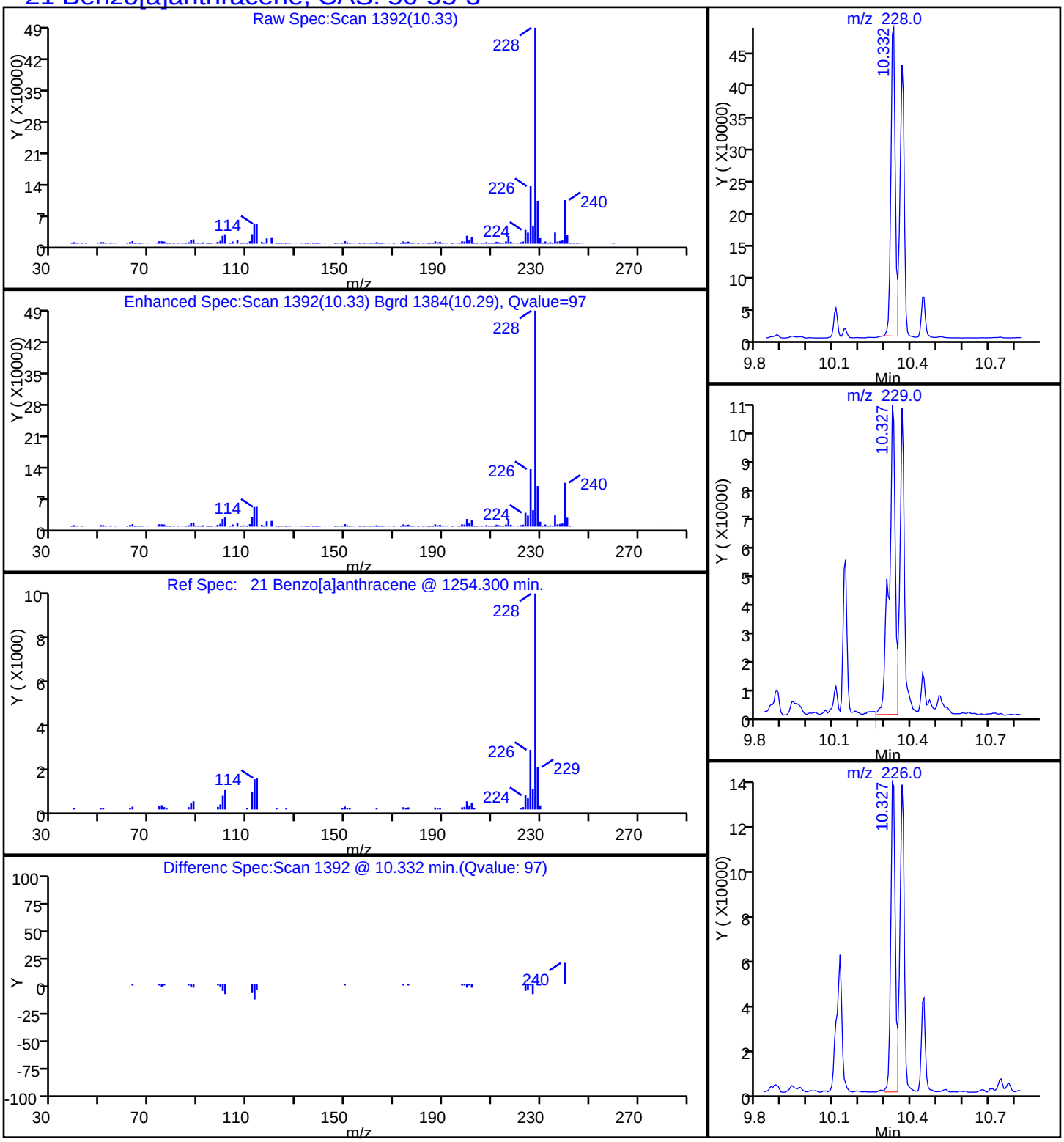


Report Date: 21-Nov-2014 06:47:37 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

21 Benzo[a]anthracene, CAS: 56-55-3

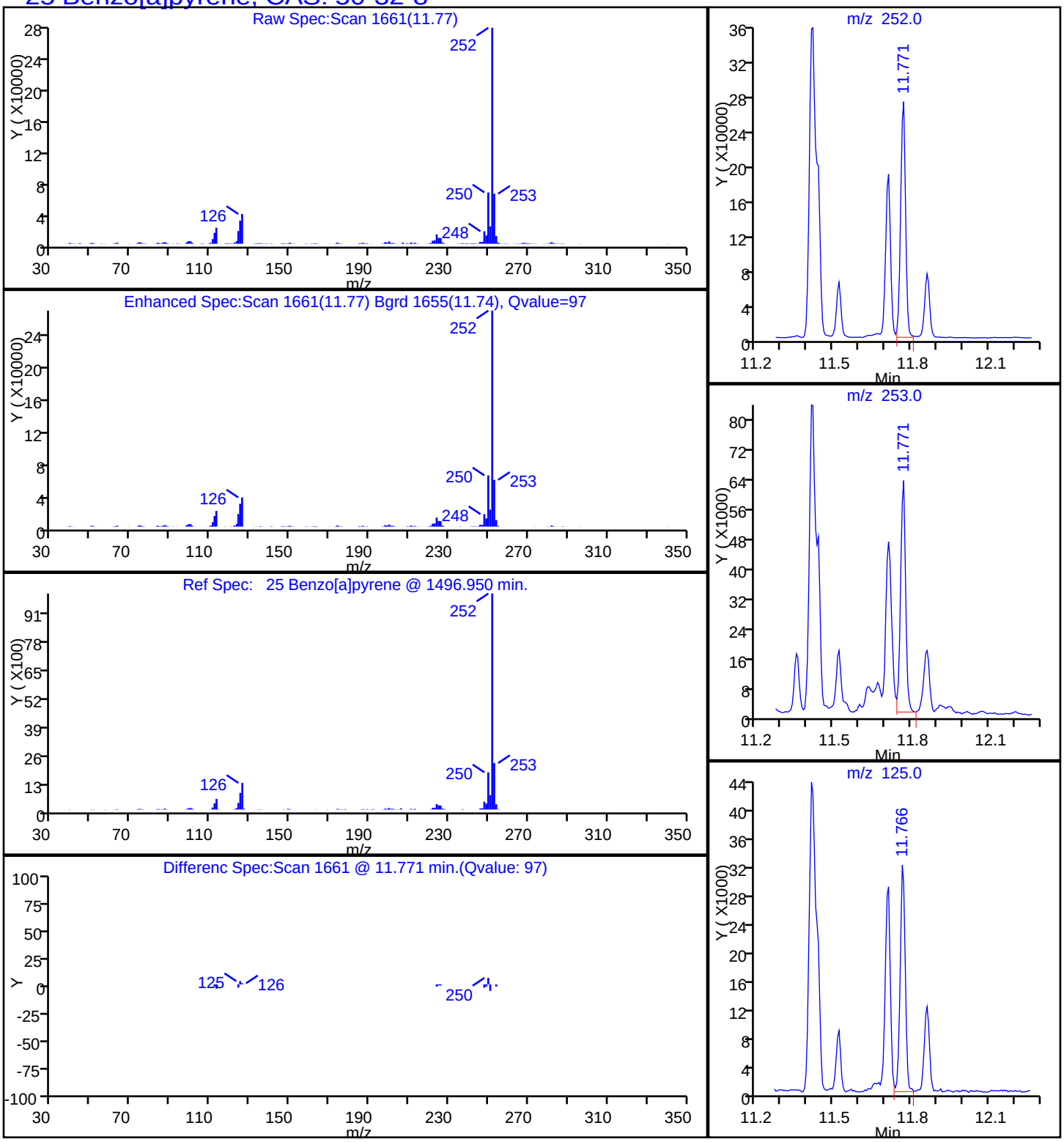


Report Date: 21-Nov-2014 06:47:37 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

25 Benzo[a]pyrene, CAS: 50-32-8

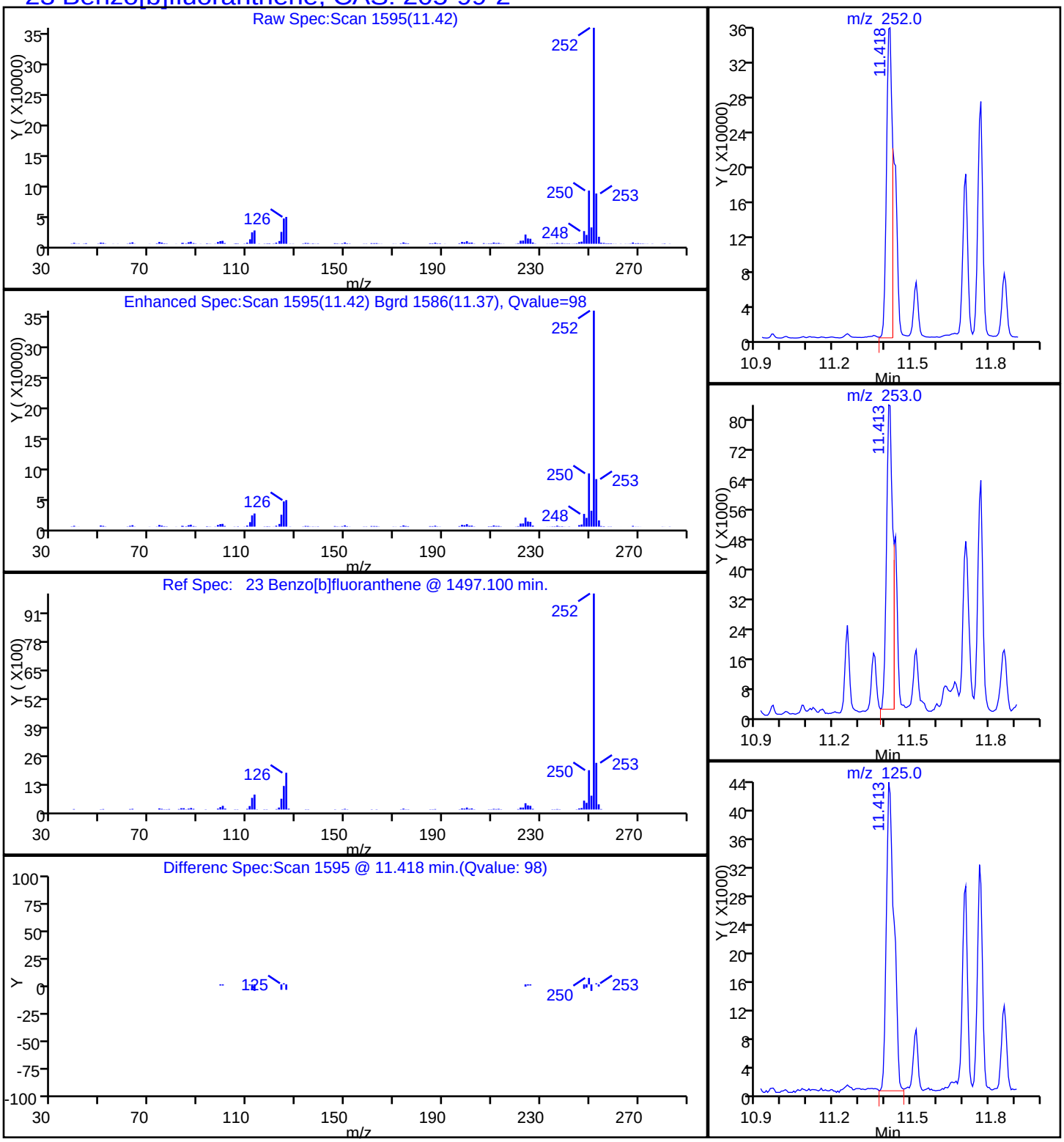


Report Date: 21-Nov-2014 06:47:37 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

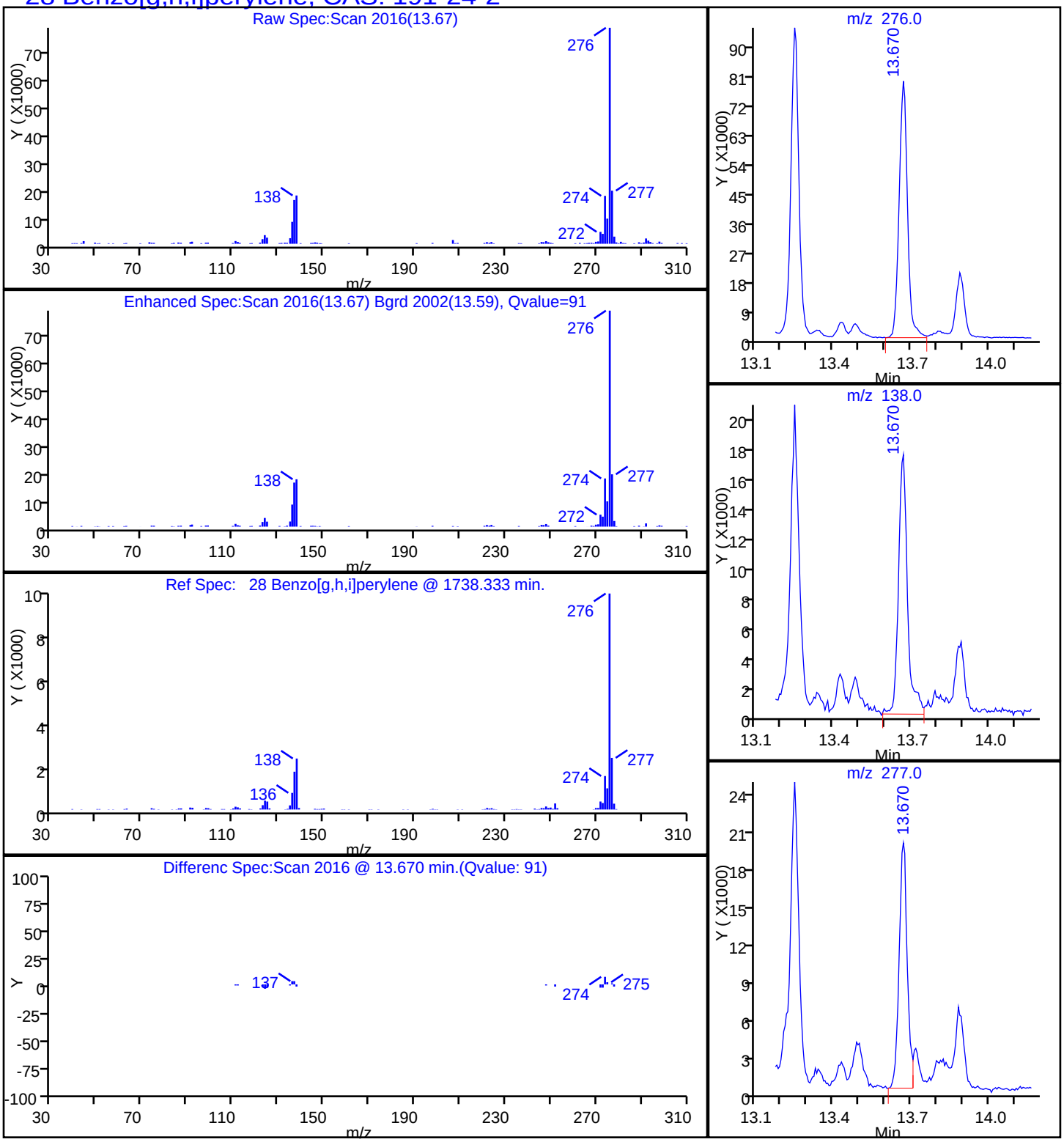


Report Date: 21-Nov-2014 06:47:37 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

28 Benzo[g,h,i]perylene, CAS: 191-24-2

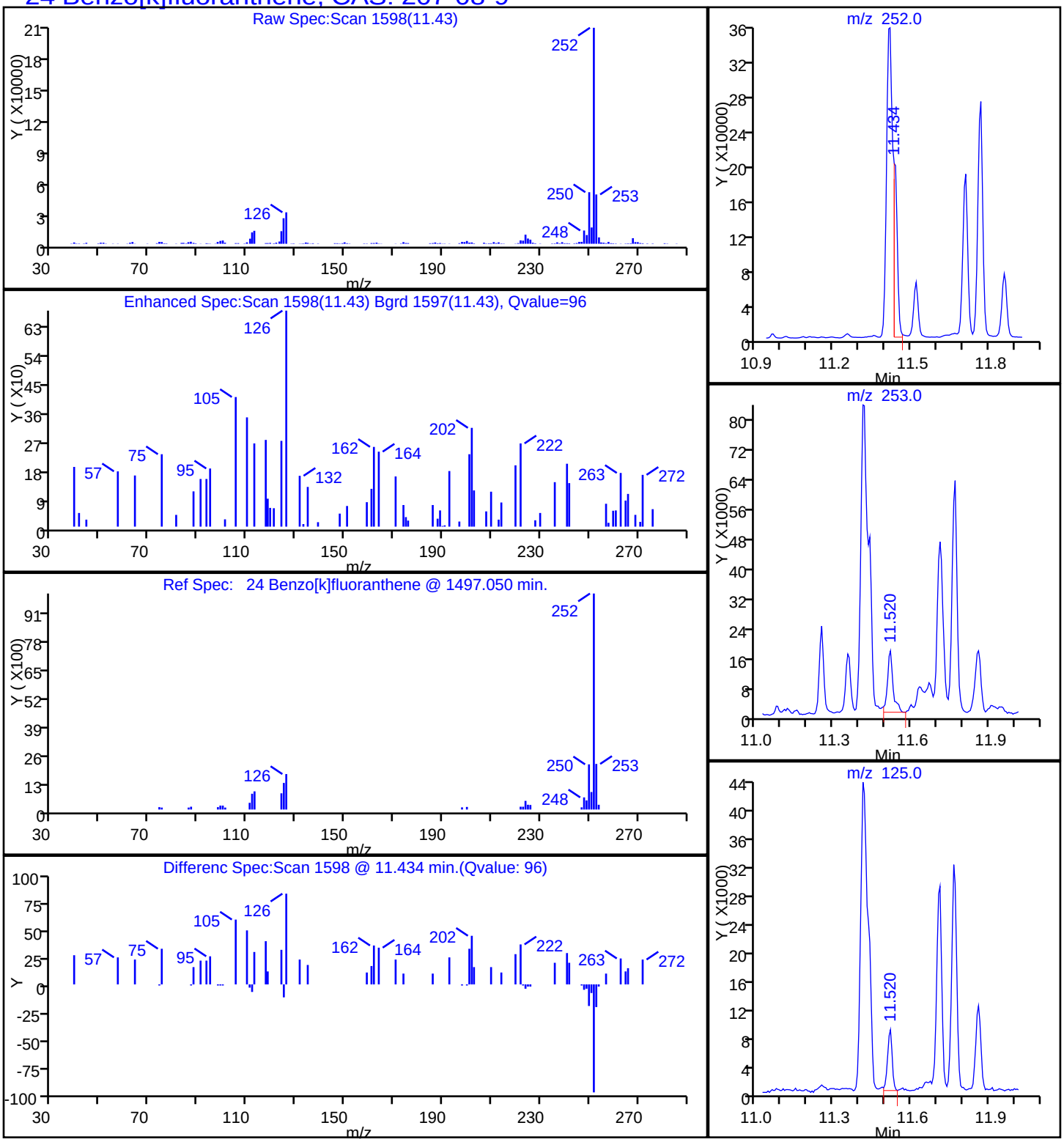


Report Date: 21-Nov-2014 06:47:37 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

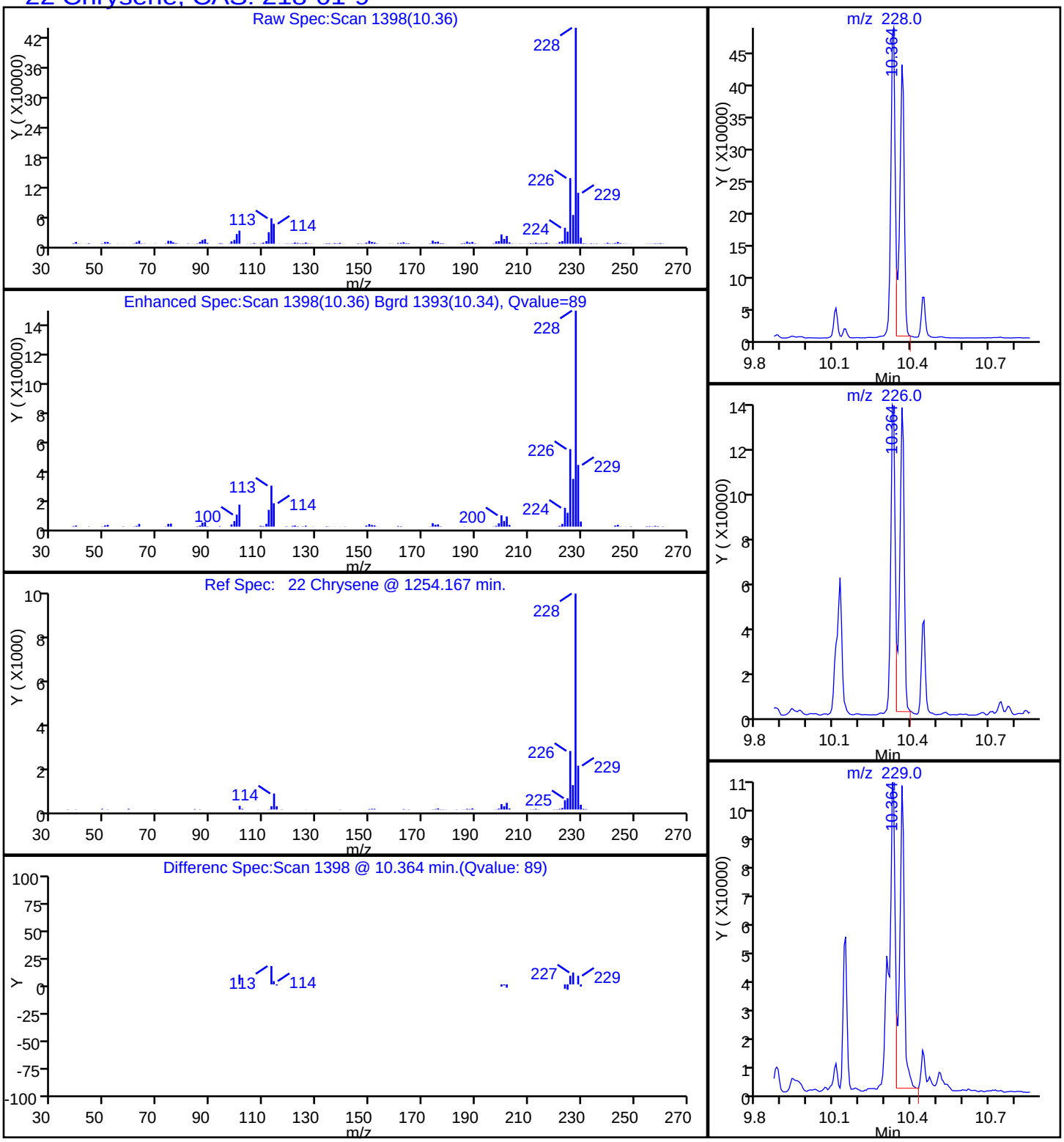


Report Date: 21-Nov-2014 06:47:37 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Chrysene, CAS: 218-01-9

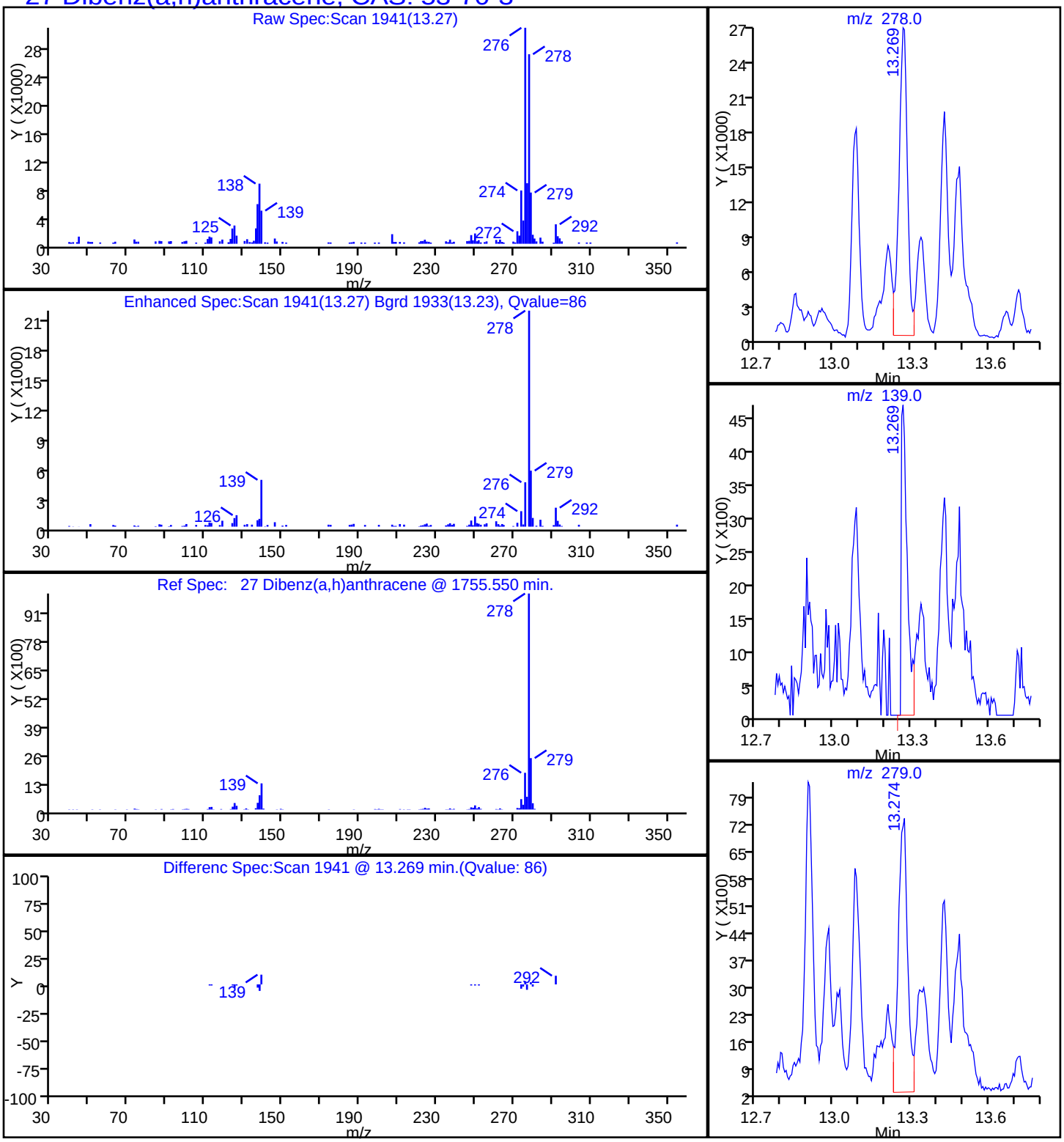


Report Date: 21-Nov-2014 06:47:37 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

27 Dibenz(a,h)anthracene, CAS: 53-70-3

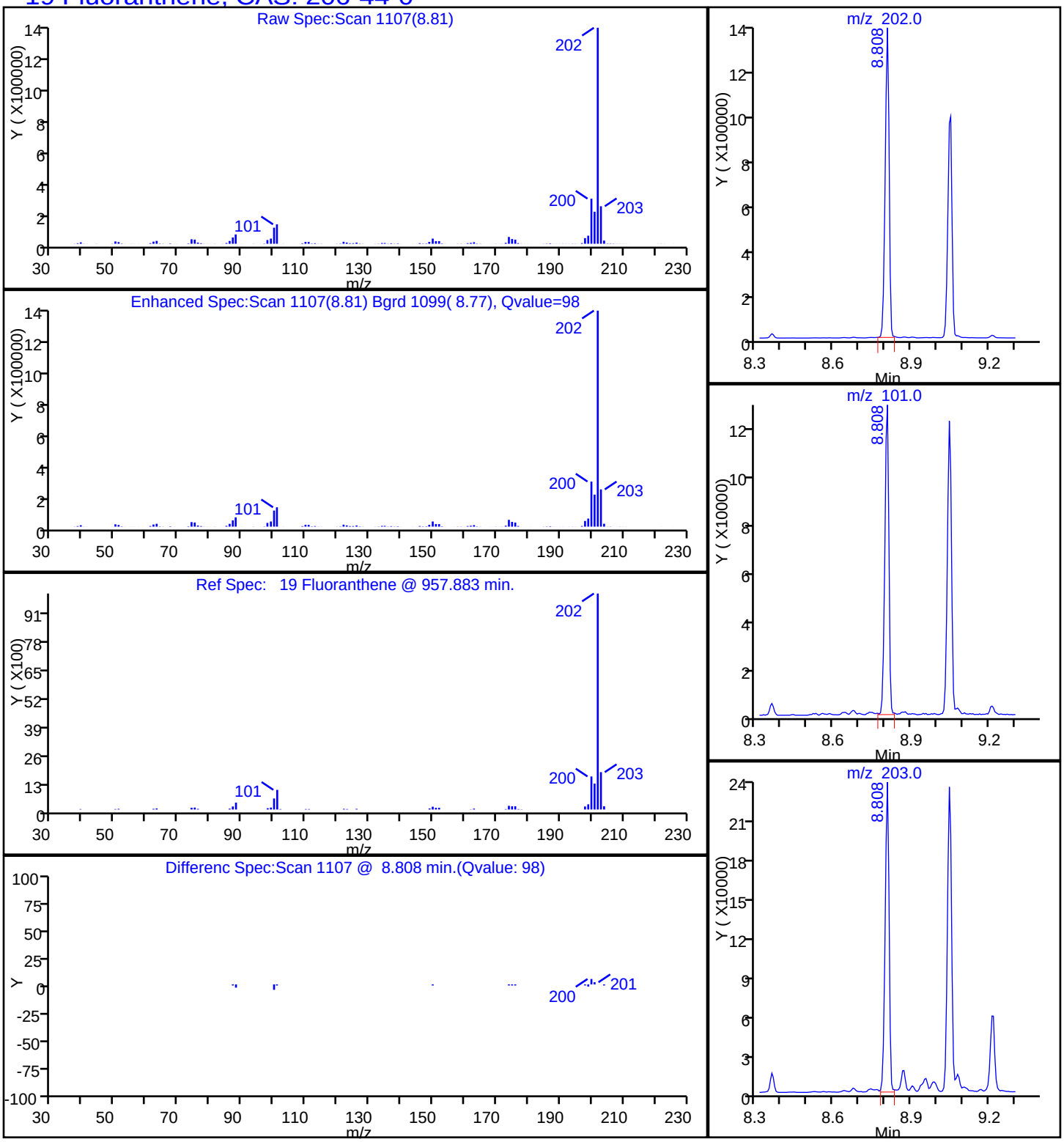


Report Date: 21-Nov-2014 06:47:36 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 Fluoranthene, CAS: 206-44-0

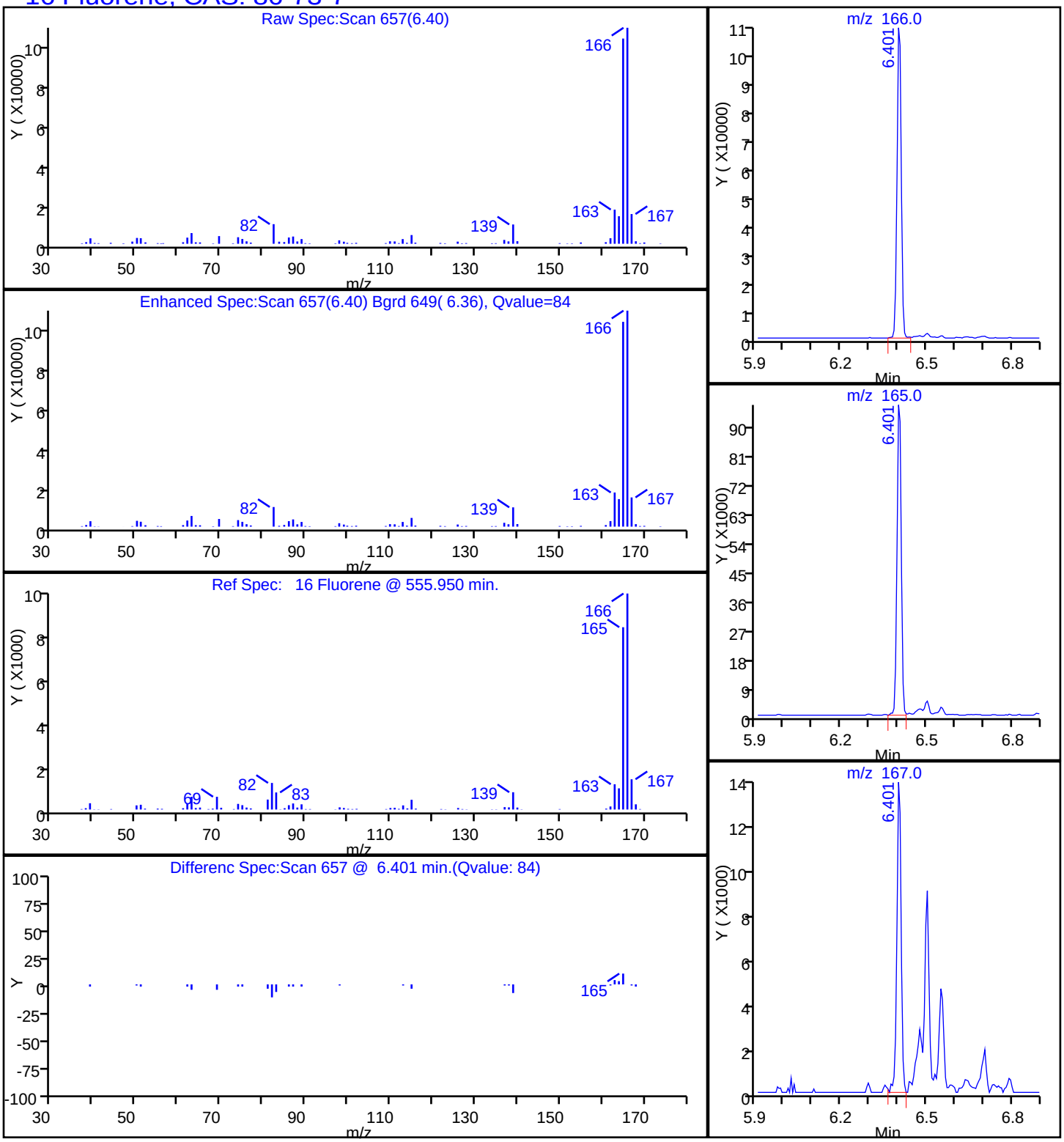


Report Date: 21-Nov-2014 06:47:36 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

16 Fluorene, CAS: 86-73-7

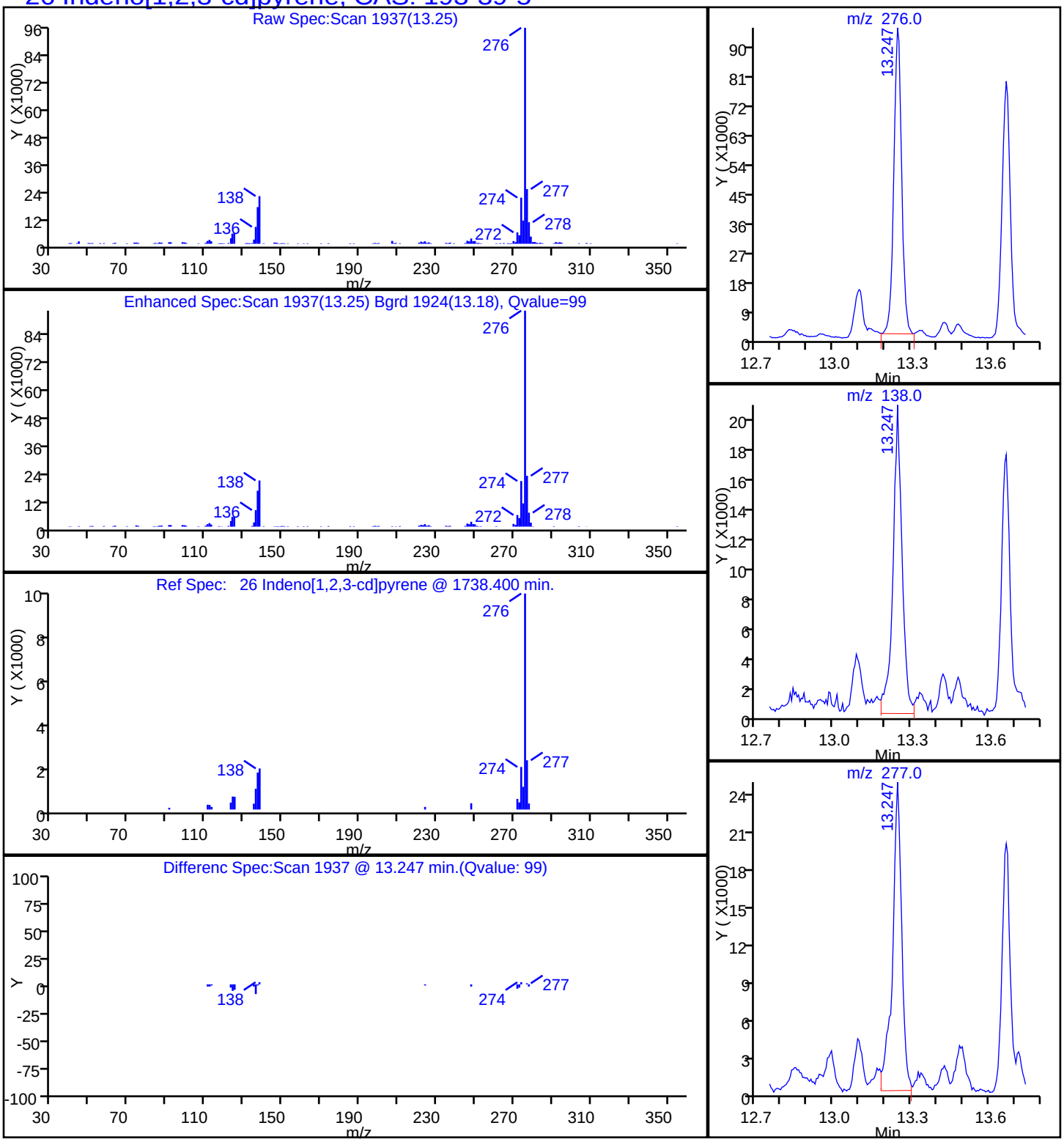


Report Date: 21-Nov-2014 06:47:37 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

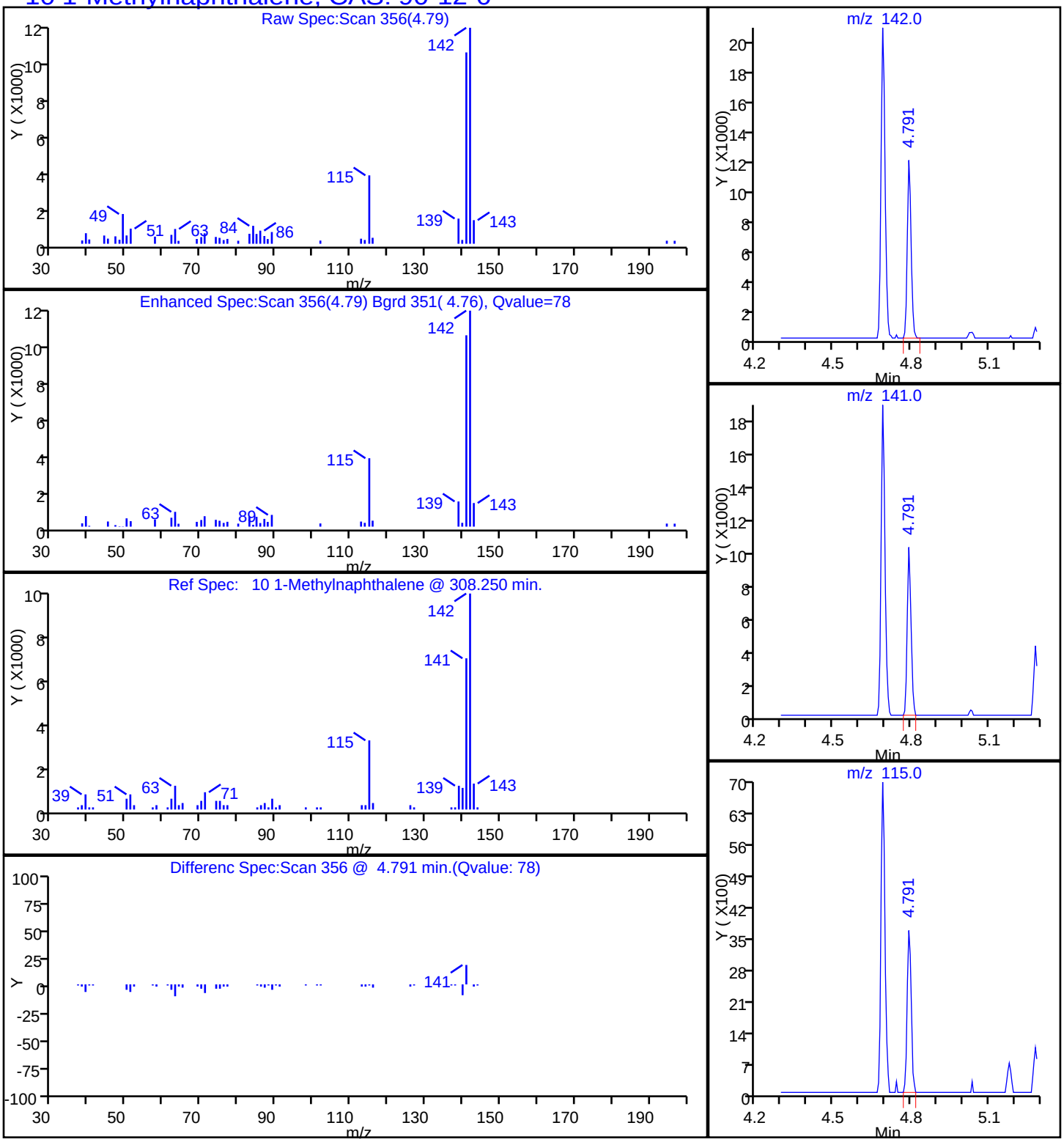


Report Date: 21-Nov-2014 06:47:36 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

10 1-Methylnaphthalene, CAS: 90-12-0

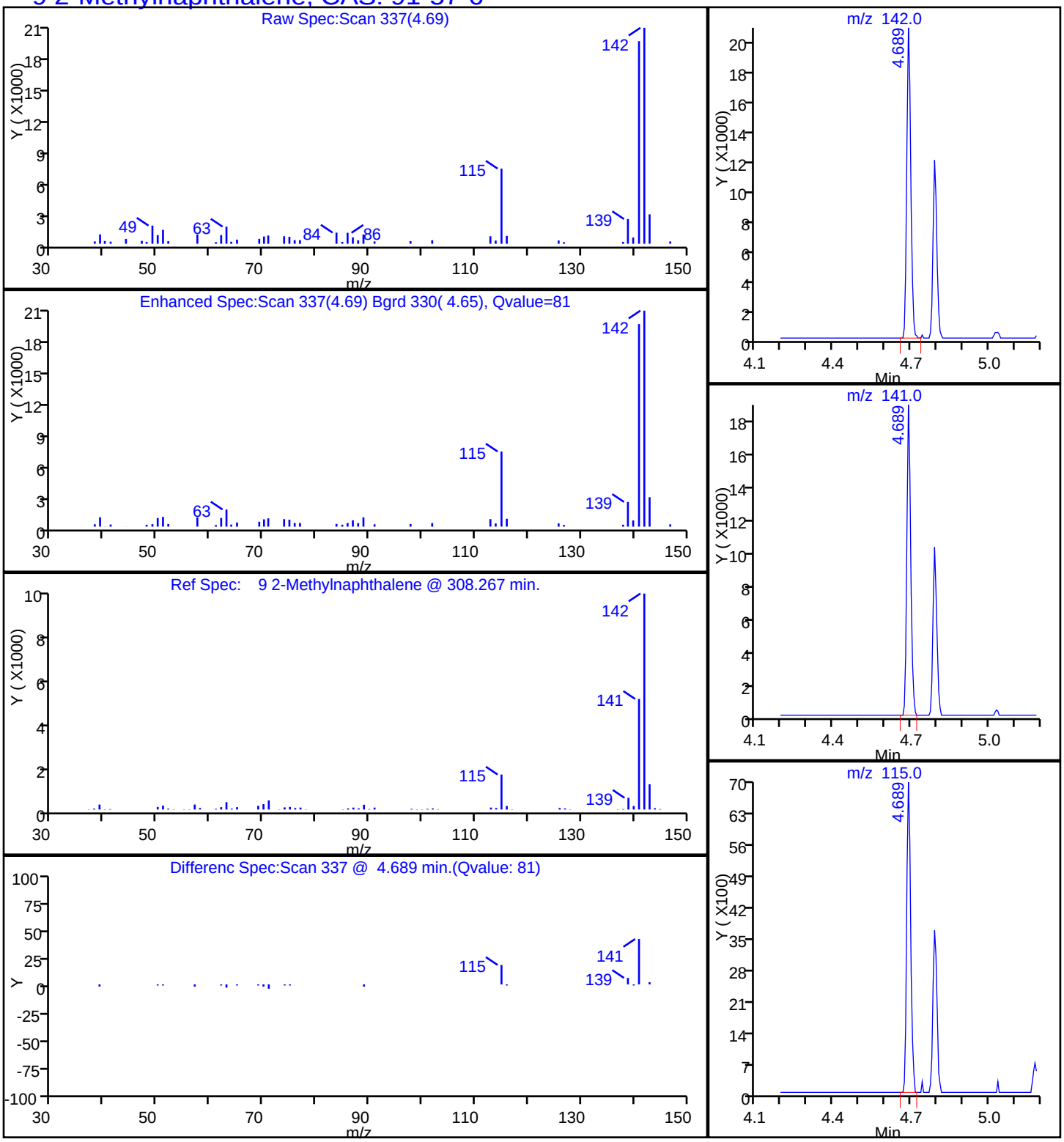


Report Date: 21-Nov-2014 06:47:36 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

9 2-Methylnaphthalene, CAS: 91-57-6

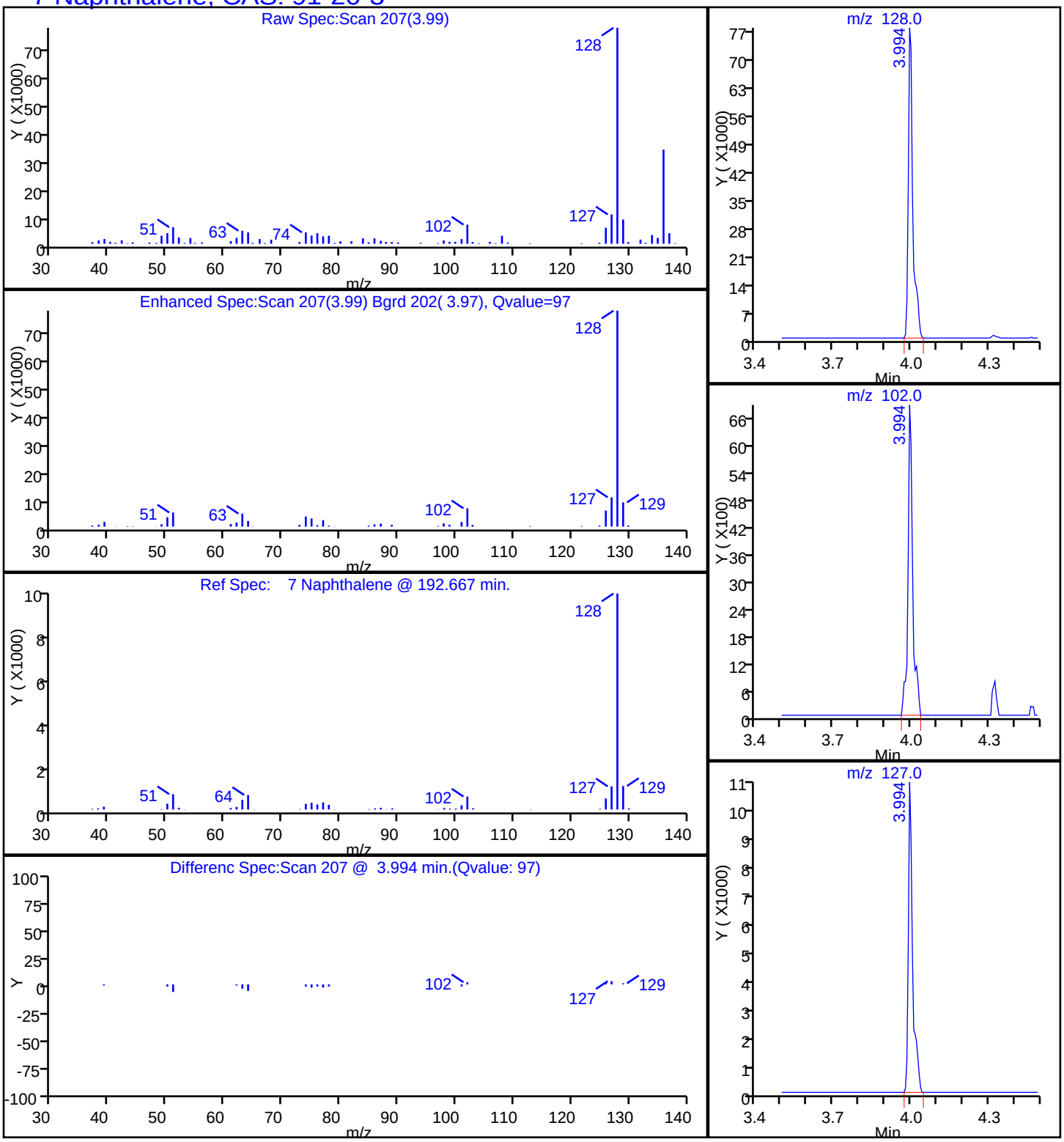


Report Date: 21-Nov-2014 06:47:36 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Naphthalene, CAS: 91-20-3

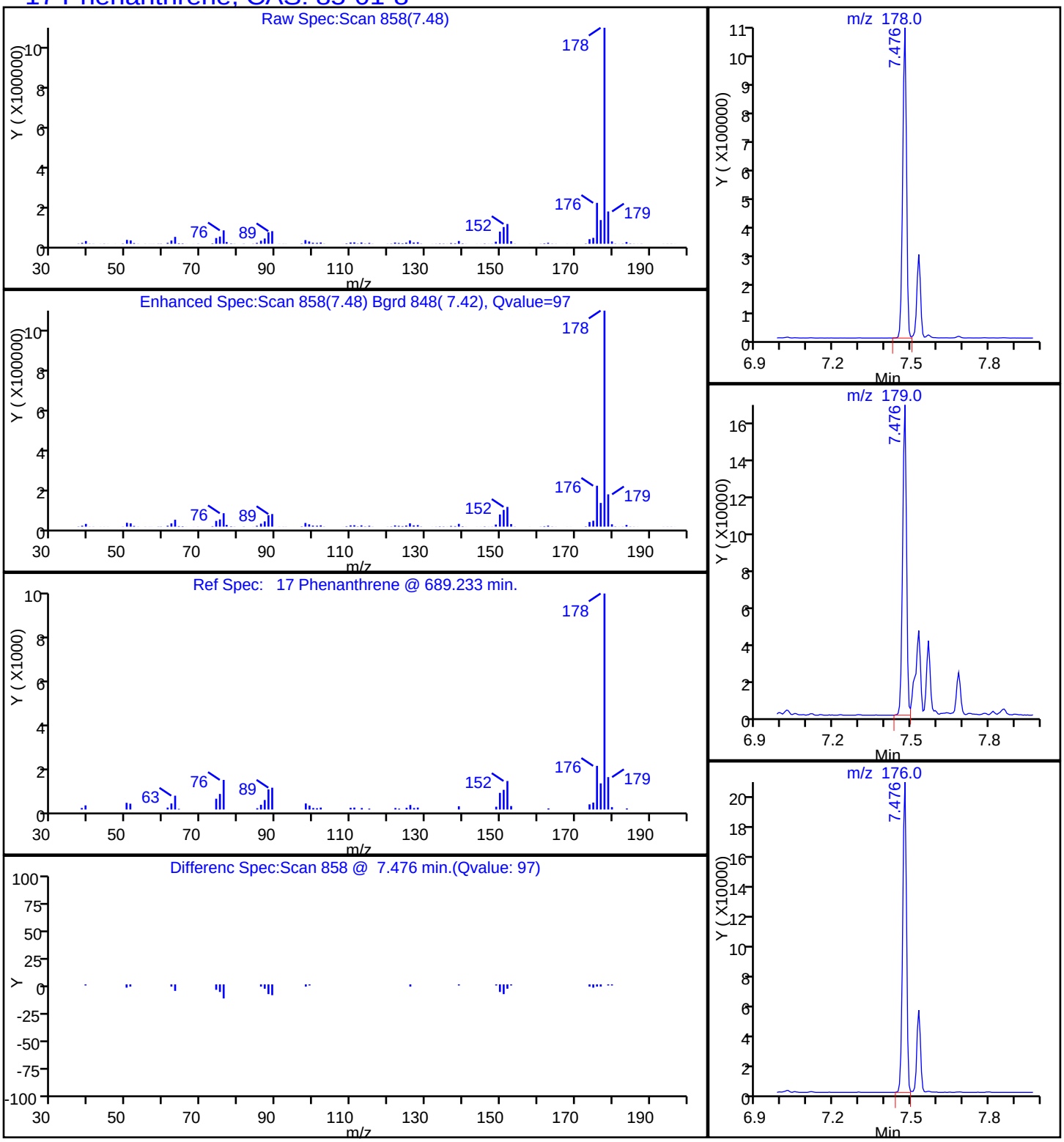


Report Date: 21-Nov-2014 06:47:36 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Phenanthrene, CAS: 85-01-8

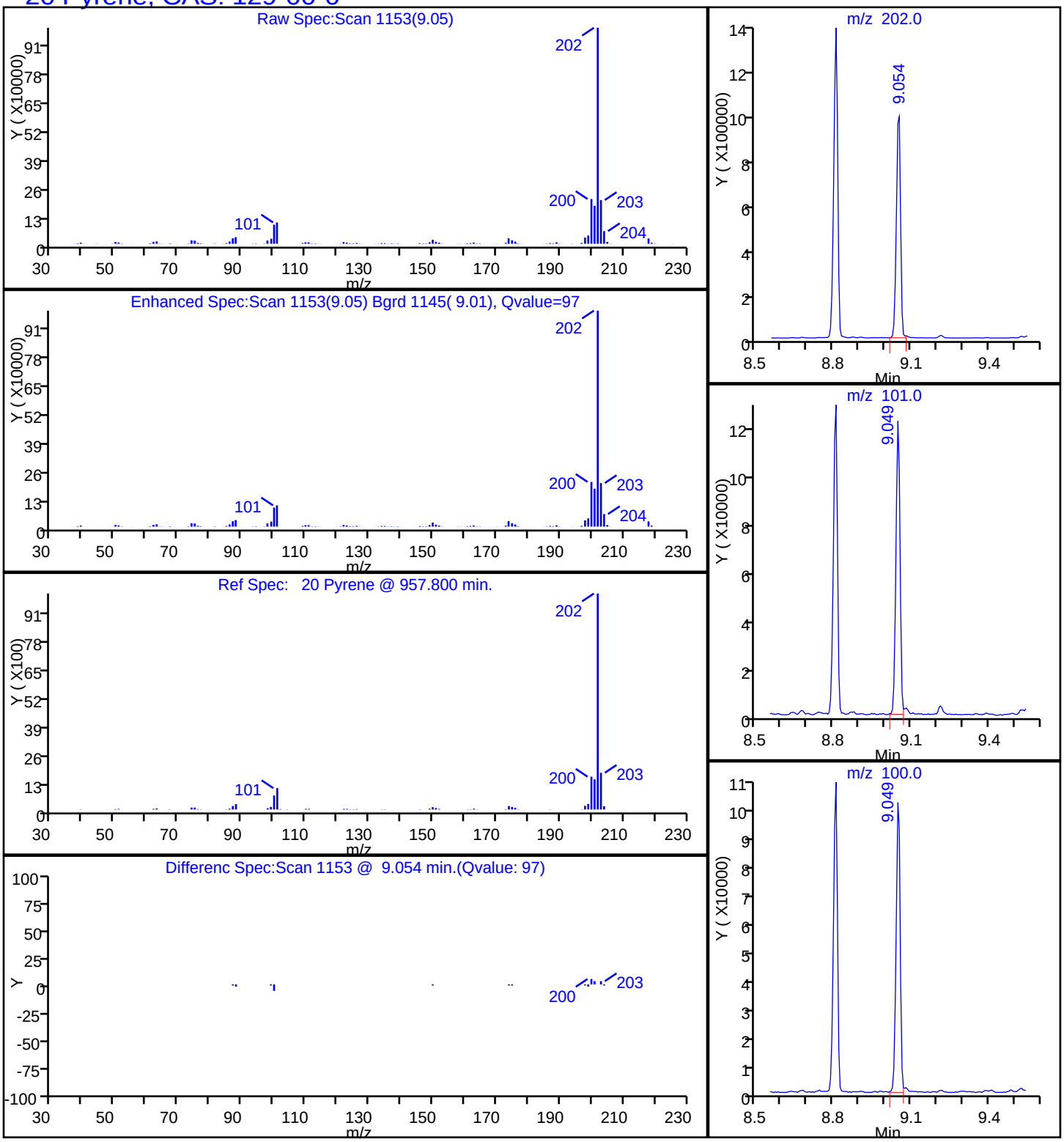


Report Date: 21-Nov-2014 06:47:36 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

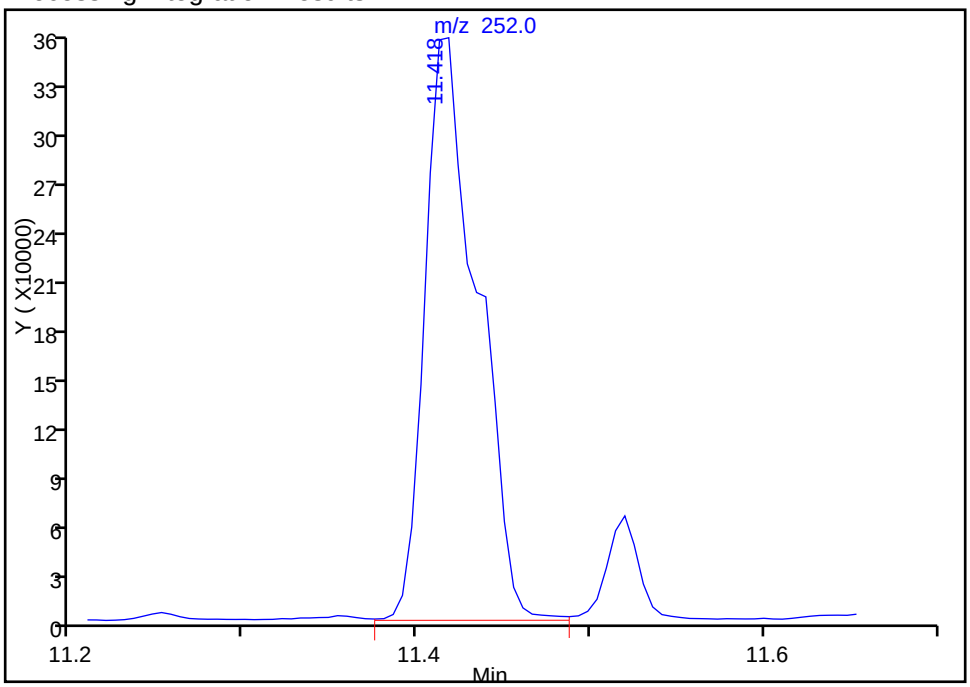
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

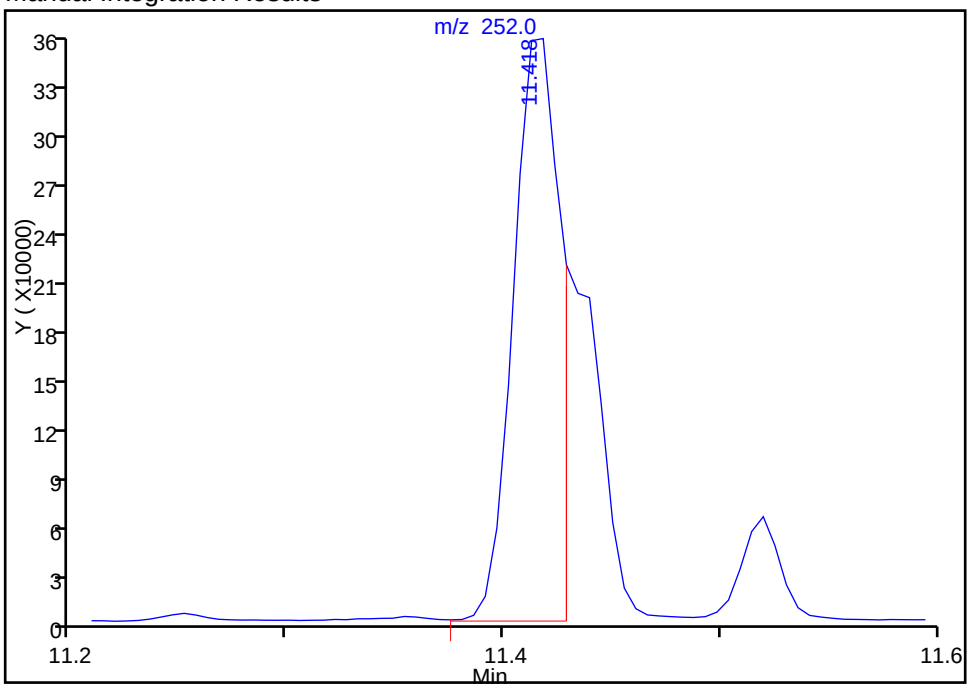
Processing Integration Results

RT: 11.42
Response: 752782
Amount: 6.805196



Manual Integration Results

RT: 11.42
Response: 548511
Amount: 4.958573



Reviewer: webbk, 21-Nov-2014 06:36:18
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

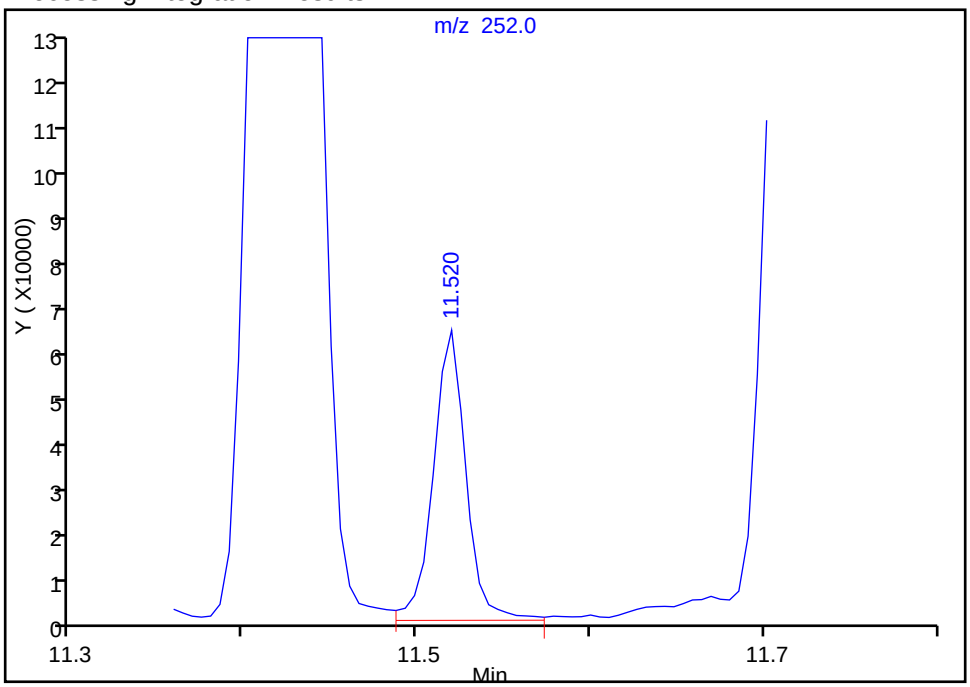
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2006.D				
Injection Date:	20-Nov-2014 16:13:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-5-A	Lab Sample ID:	680-107159-5		
Client ID:	FM0281A-CSD6"				
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

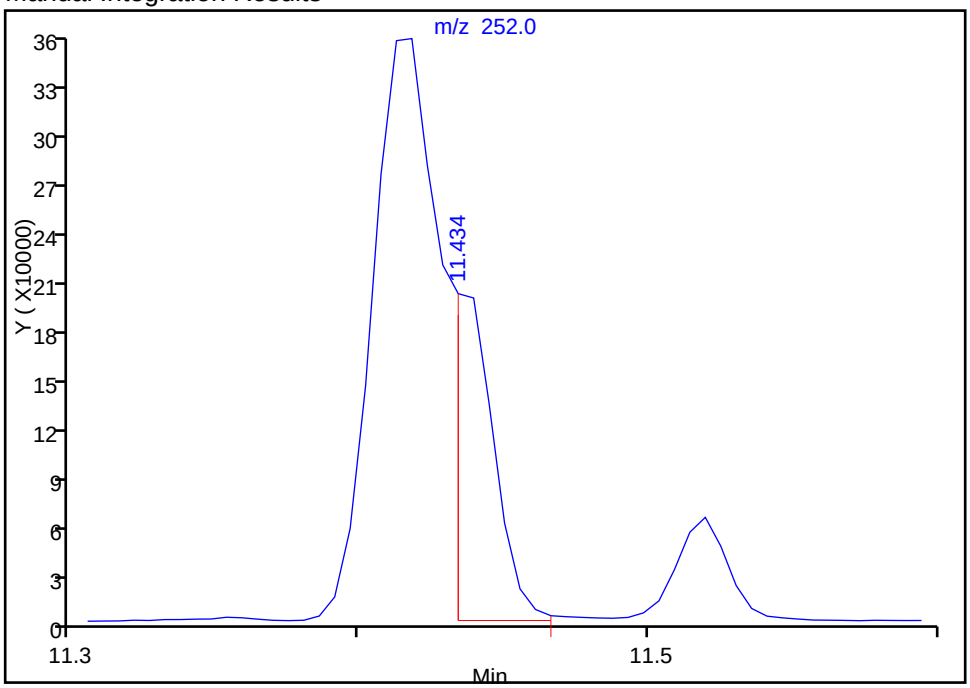
Processing Integration Results

RT: 11.52
Response: 84032
Amount: 0.713233



Manual Integration Results

RT: 11.43
Response: 198978
Amount: 1.715844



Reviewer: webbk, 21-Nov-2014 06:36:18
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281D-CS6" | Lab Sample ID: 680-107159-6

Matrix: Solid | Lab File ID: 2KK1914.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 09:30

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.03(g) | Date Analyzed: 11/19/2014 17:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

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

% Moisture: 16.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1100		400	200
208-96-8	Acenaphthylene	400	U	400	200
120-12-7	Anthracene	3300		400	200
56-55-3	Benzo[a]anthracene	12000		400	200
50-32-8	Benzo[a]pyrene	9100		400	72
205-99-2	Benzo[b]fluoranthene	13000		400	200
191-24-2	Benzo[g,h,i]perylene	5300		400	200
207-08-9	Benzo[k]fluoranthene	5700		400	120
218-01-9	Chrysene	11000		400	200
53-70-3	Dibenz(a,h)anthracene	2000		400	200
206-44-0	Fluoranthene	22000		400	200
86-73-7	Fluorene	1100		400	200
193-39-5	Indeno[1,2,3-cd]pyrene	5200		400	200
90-12-0	1-Methylnaphthalene	220	J	400	190
91-57-6	2-Methylnaphthalene	280	J	400	200
91-20-3	Naphthalene	460		400	200
85-01-8	Phenanthrene	14000		400	140
129-00-0	Pyrene	17000		400	200

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1914.D
Lims ID: 680-107159-B-6-A Lab Sample ID: 680-107159-6
Client ID: FM0281D-CS6"
Sample Type: Client
Inject. Date: 19-Nov-2014 17:01:30 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 50.0000
Sample Info: 680-107159-B-6-A 1:50
Misc. Info.: 680-0014922-014
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:35 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 20-Nov-2014 08:15:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.114	3.114	0.000	100	762559	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	93	412250	2.00	
* 3 Phenanthrene-d10	188	6.369	6.363	0.006	98	676119	2.00	
* 4 Chrysene-d12	240	9.201	9.196	0.005	99	657507	2.00	
* 5 Perylene-d12	264	10.523	10.518	0.005	98	468475	2.00	
7 Naphthalene	128	3.132	3.138	-0.006	98	98630	0.2307	
9 2-Methylnaphthalene	142	3.772	3.778	-0.006	86	36095	0.1386	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	90	25665	0.1083	
11 Acenaphthylene	152	4.654	4.654	0.000	98	38510	0.0883	
12 Acenaphthene	153	4.836	4.842	-0.006	96	137013	0.5289	
14 Fluorene	166	5.376	5.382	-0.006	95	167397	0.5500	
15 Phenanthrene	178	6.393	6.393	0.000	97	2777464	6.80	
16 Anthracene	178	6.446	6.446	0.000	98	692278	1.65	
17 Fluoranthene	202	7.679	7.674	0.005	98	5154390	11.1	
18 Pyrene	202	7.914	7.909	0.005	97	3984640	8.66	
19 Benzo[a]anthracene	228	9.189	9.190	-0.001	98	2203668	6.00	
20 Chrysene	228	9.225	9.225	0.000	98	1930077	5.59	
21 Benzo[b]fluoranthene	252	10.206	10.200	0.006	98	2007744	6.33	
22 Benzo[k]fluoranthene	252	10.224	10.224	0.000	99	887685	2.86	M
23 Benzo[a]pyrene	252	10.476	10.471	0.006	97	1190672	4.55	
24 Indeno[1,2,3-cd]pyrene	276	11.393	11.399	-0.006	99	616163	2.60	
25 Dibenz(a,h)anthracene	278	11.416	11.422	-0.006	94	175637	1.01	
26 Benzo[g,h,i]perylene	276	11.634	11.634	0.000	98	521114	2.65	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

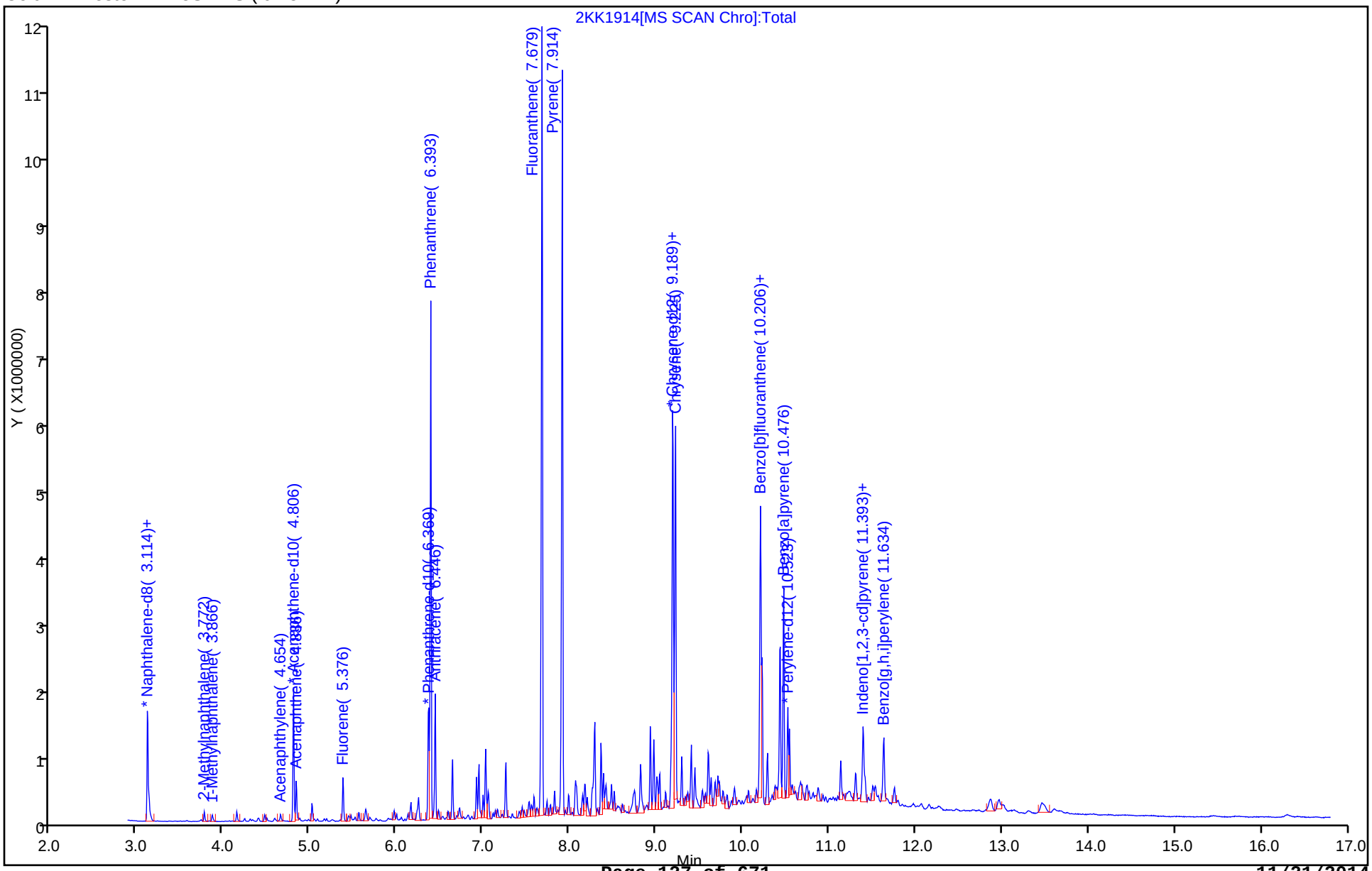
SM-LLISTD_00114	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Nov-2014 10:09:46 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1914.D				
Injection Date:	19-Nov-2014 17:01:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-107159-B-6-A	Lab Sample ID:	680-107159-6	Worklist Smp#:	14
Client ID:	FM0281D-CS6"				
Injection Vol:	1.0 ul	Dil. Factor:	50.0000	ALS Bottle#:	14
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)

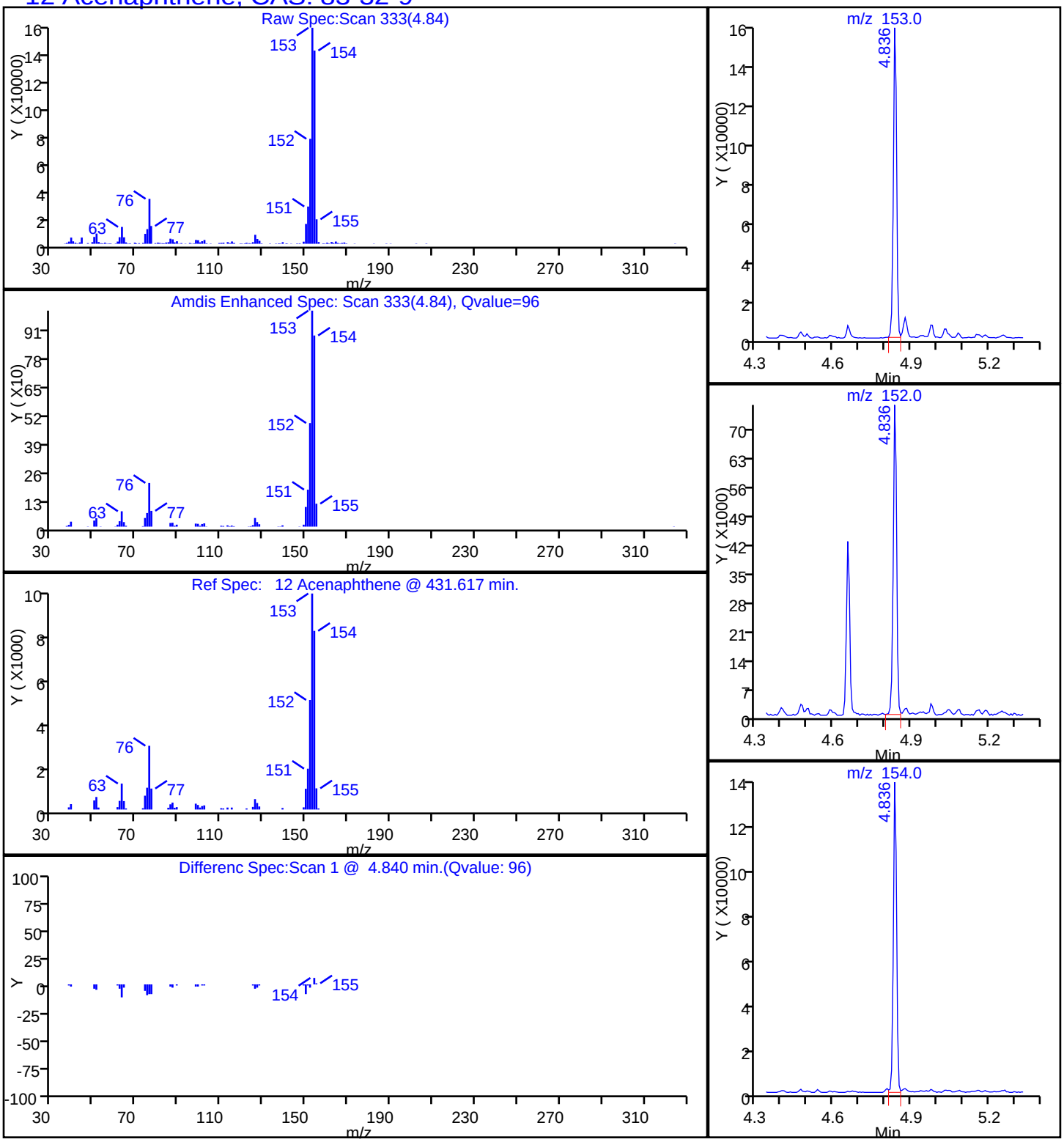


Report Date: 20-Nov-2014 10:09:46 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1914.D				
Injection Date:	19-Nov-2014 17:01:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-6-A	Lab Sample ID:	680-107159-6		
Client ID:	FM0281D-CS6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

12 Acenaphthene, CAS: 83-32-9

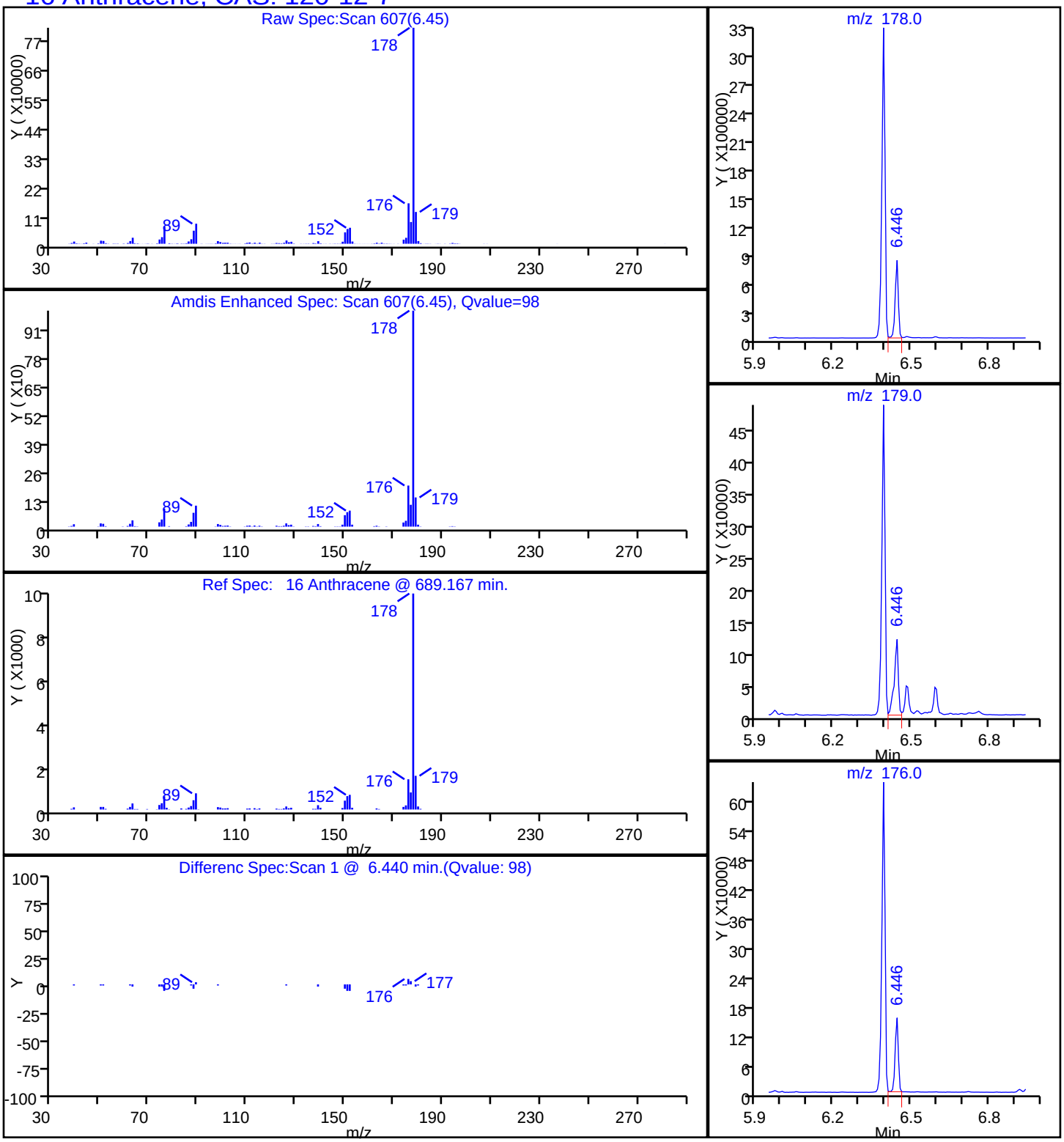


Report Date: 20-Nov-2014 10:09:46 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1914.D				
Injection Date:	19-Nov-2014 17:01:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-6-A	Lab Sample ID:	680-107159-6		
Client ID:	FM0281D-CS6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

16 Anthracene, CAS: 120-12-7



Report Date: 20-Nov-2014 10:09:46 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1914.D				
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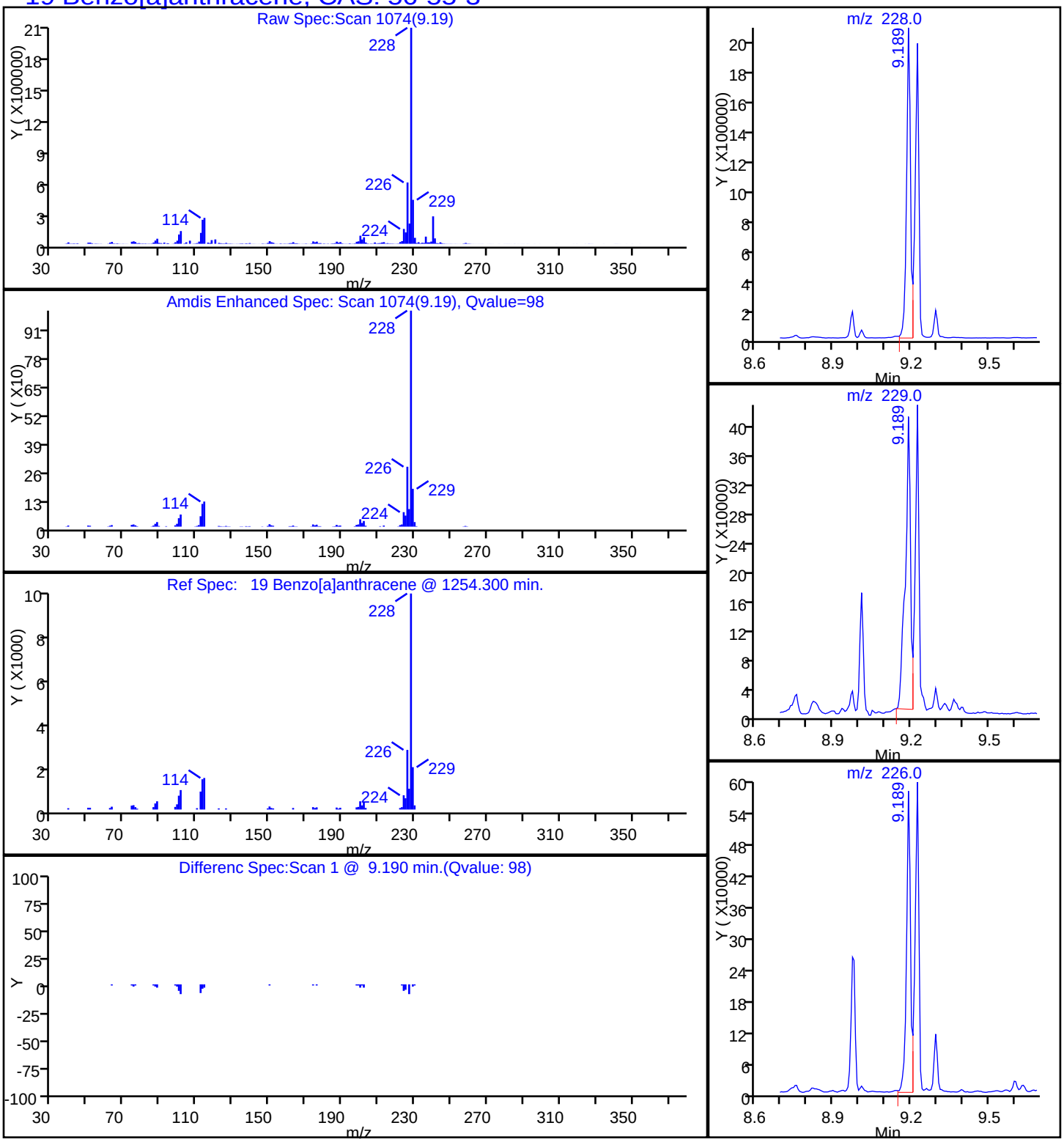
Lims ID:	680-107159-B-6-A	Lab Sample ID:	680-107159-6		
Client ID:	FM0281D-CS6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 Benzo[a]anthracene, CAS: 56-55-3



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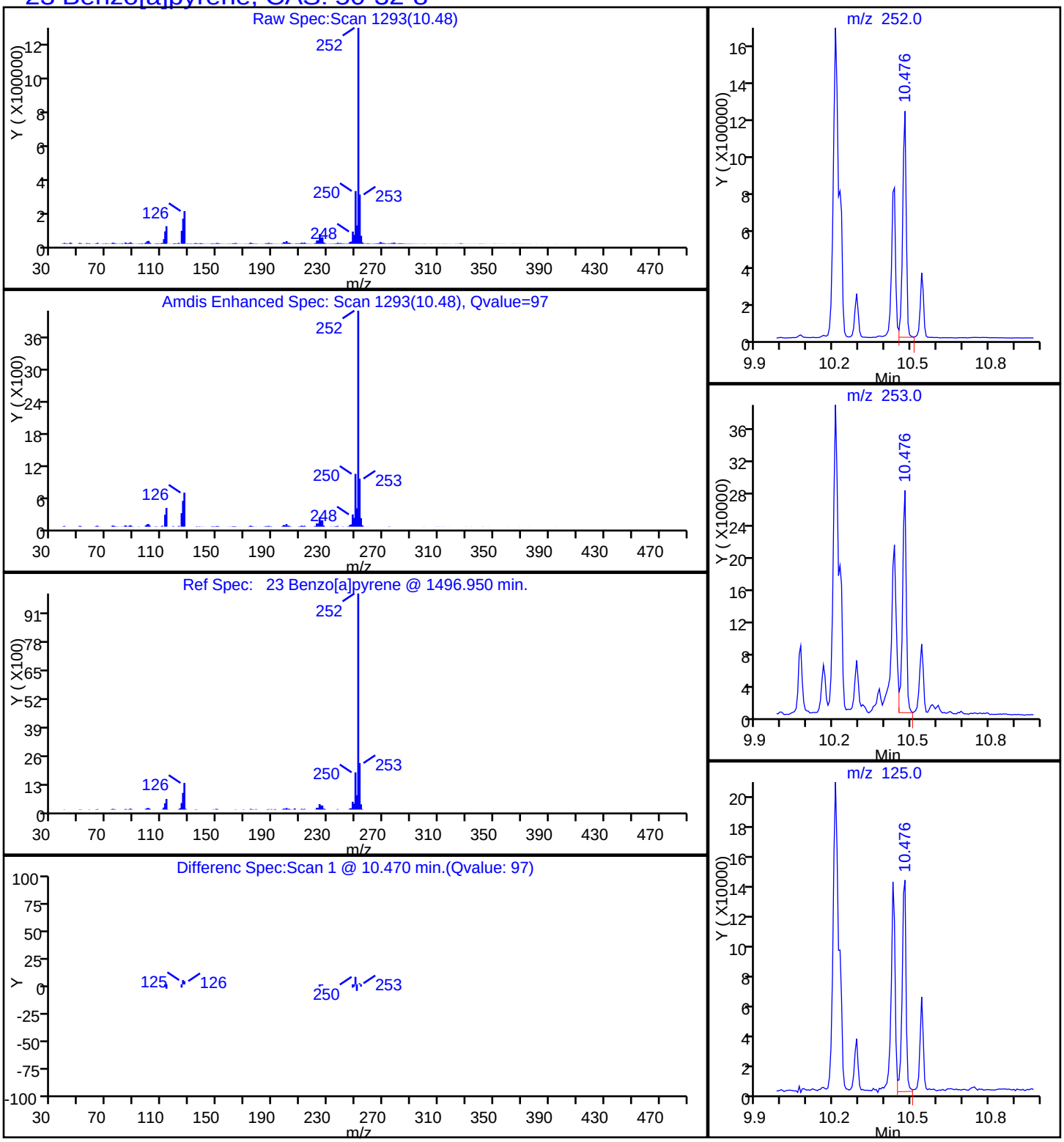
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1914.D				
Injection Date:	19-Nov-2014 17:01:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-6-A	Lab Sample ID:	680-107159-6		
Client ID:	FM0281D-CS6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[a]pyrene, CAS: 50-32-8



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TestAmerica Savannah

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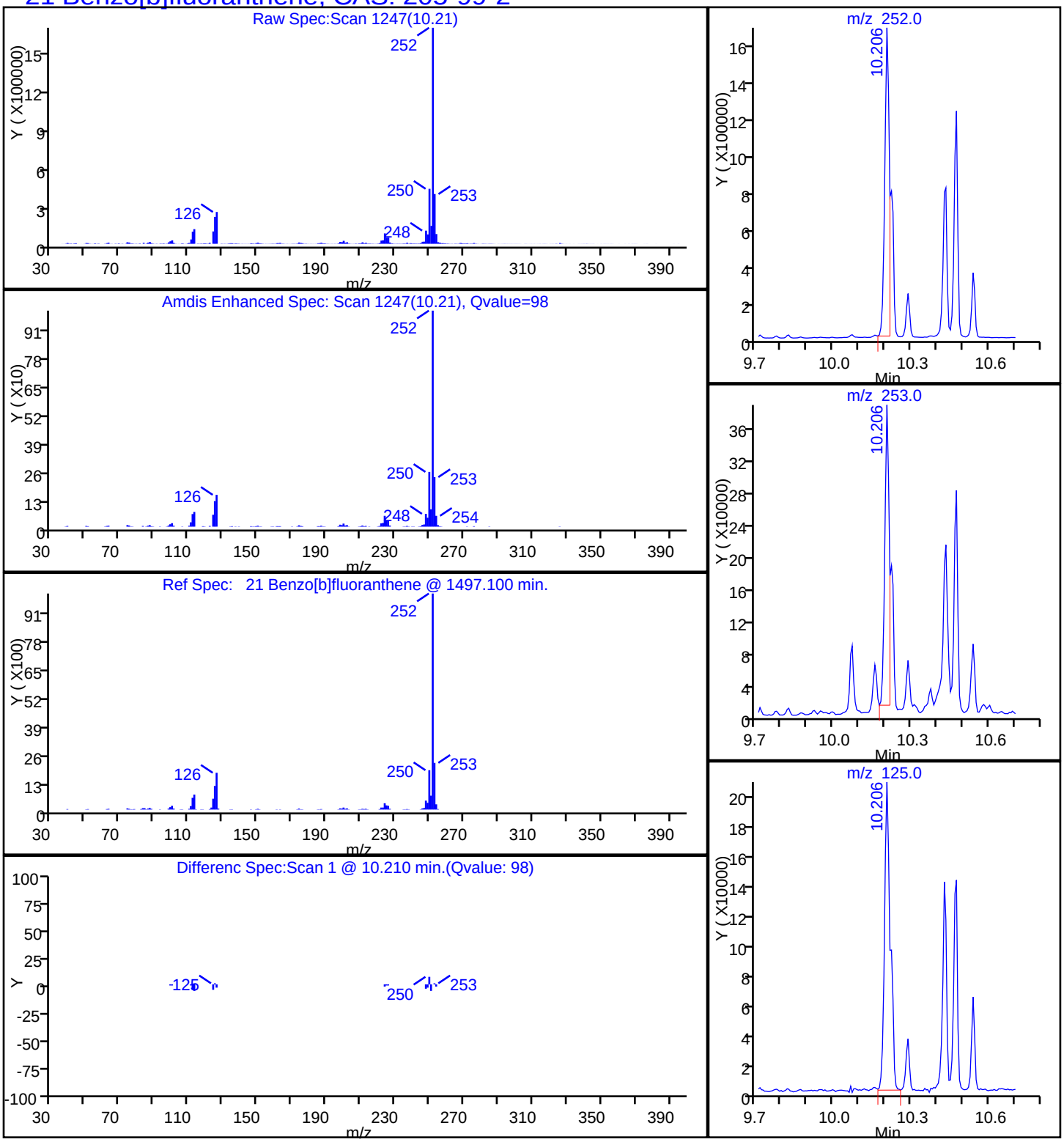
Client ID:	FM0281D-CS6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

21 Benzo[b]fluoranthene, CAS: 205-99-2



Report Date: 20-Nov-2014 10:09:46 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

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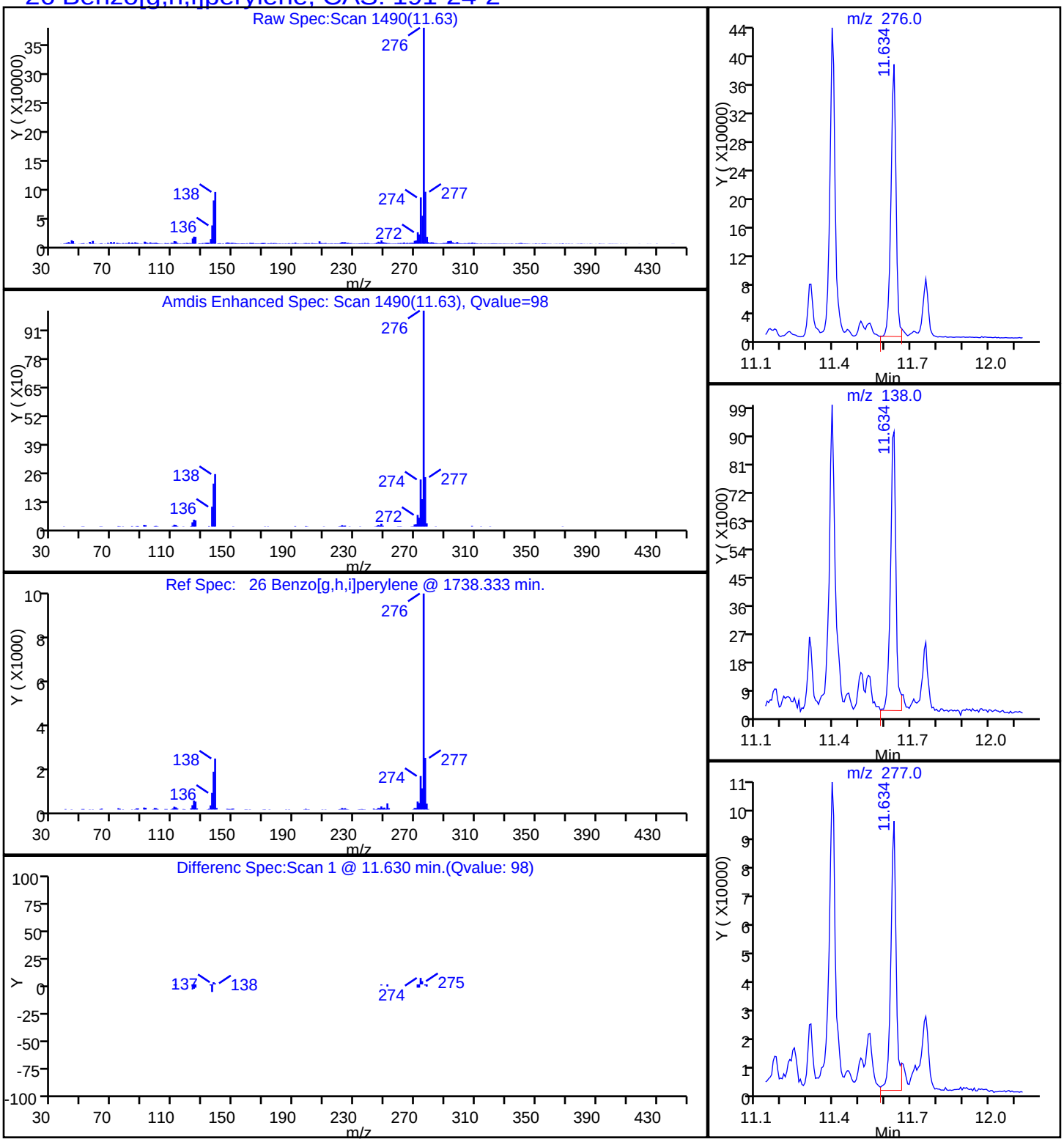
Lims ID:	680-107159-B-6-A	Lab Sample ID:	680-107159-6		
Client ID:	FM0281D-CS6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

26 Benzo[g,h,i]perylene, CAS: 191-24-2



Report Date: 20-Nov-2014 10:09:46 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1914.D				
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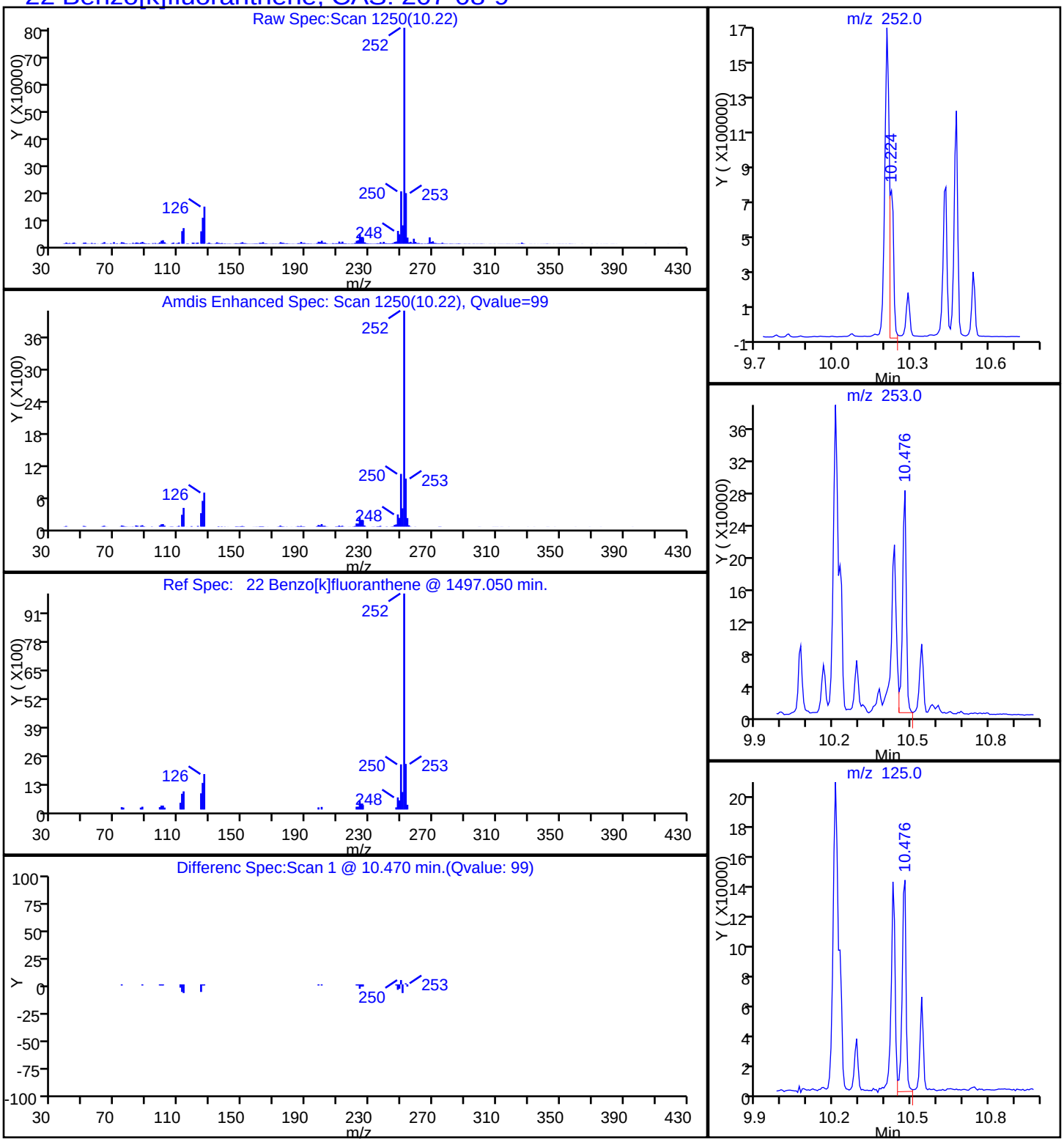
Client ID:	FM0281D-CS6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Benzo[k]fluoranthene, CAS: 207-08-9



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TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1914.D				
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Client ID:	FM0281D-CS6"				
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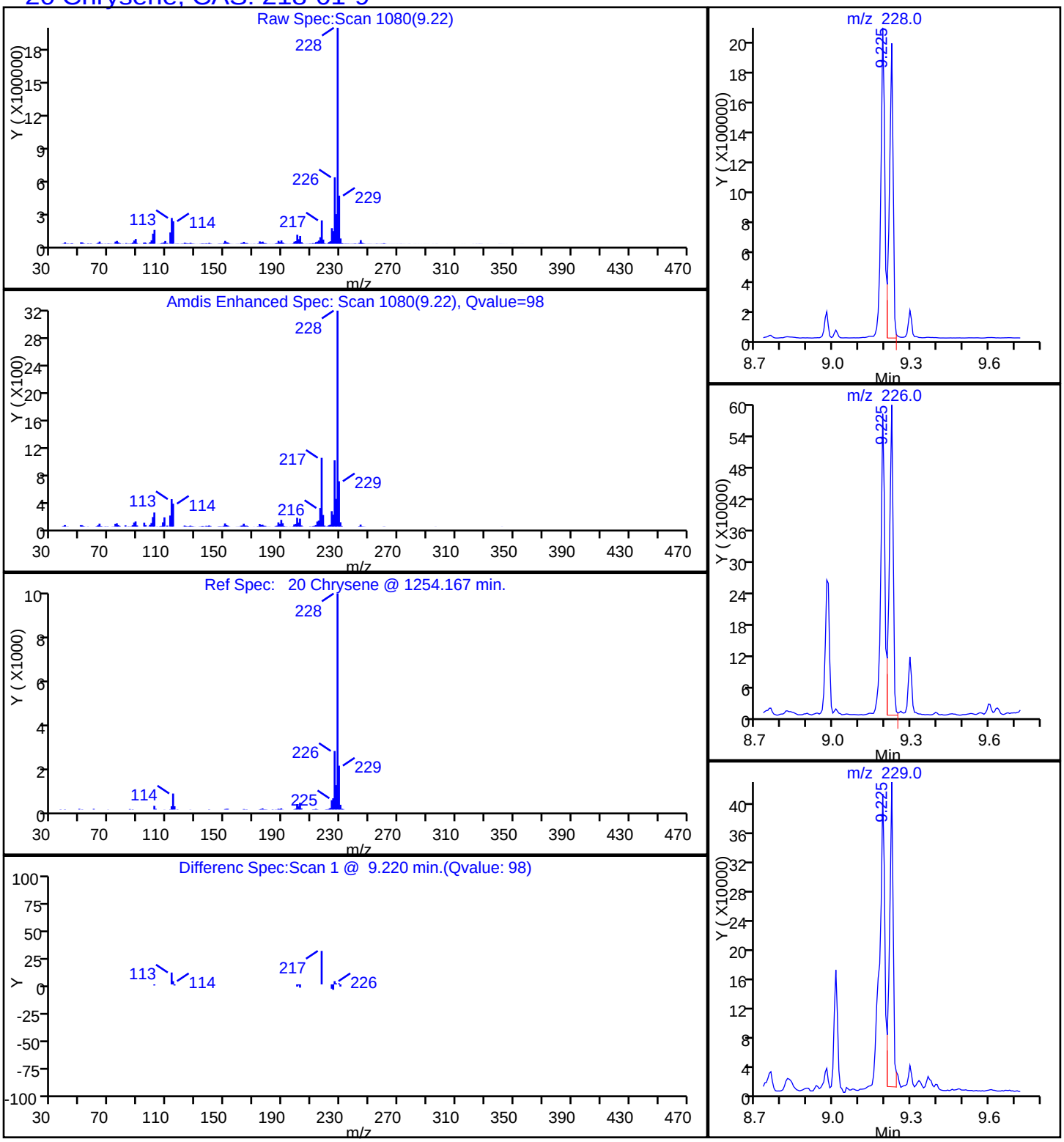
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Chrysene, CAS: 218-01-9



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TestAmerica Savannah

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Client ID:	FM0281D-CS6"				
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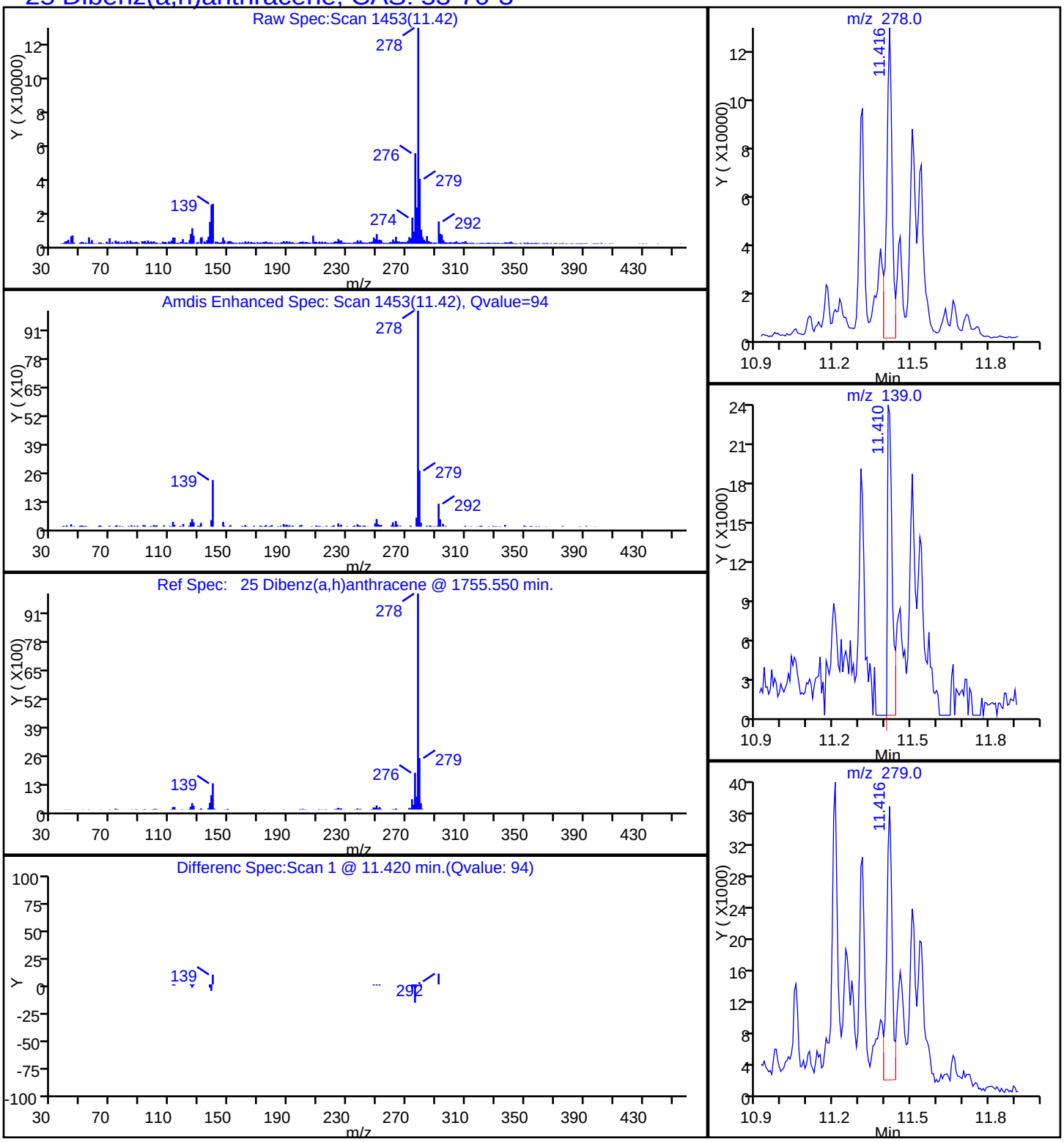
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

25 Dibenz(a,h)anthracene, CAS: 53-70-3



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TestAmerica Savannah

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Injection Date:	19-Nov-2014 17:01:30	Instrument ID:	CMSK		
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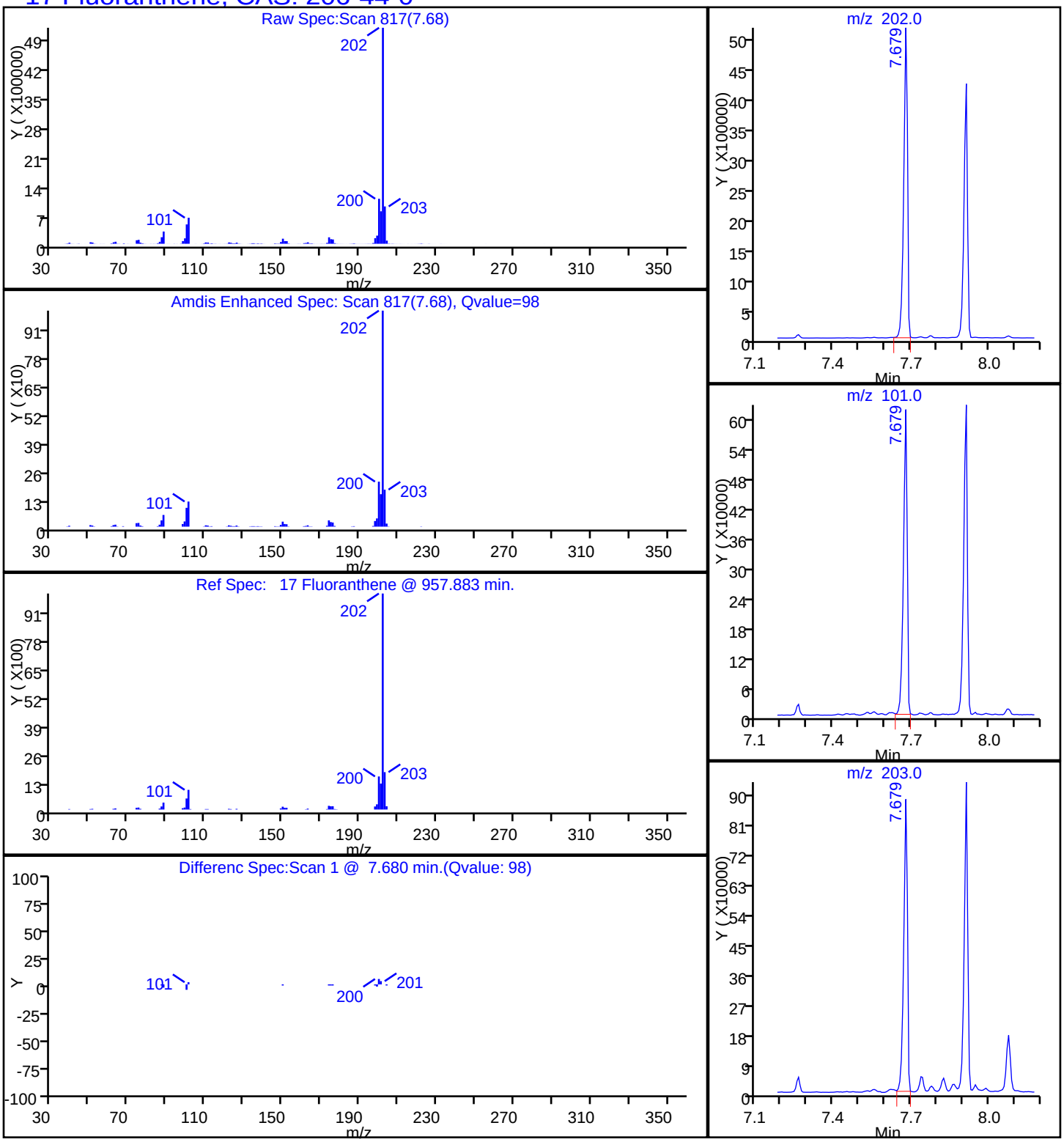
Client ID:	FM0281D-CS6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Fluoranthene, CAS: 206-44-0



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TestAmerica Savannah

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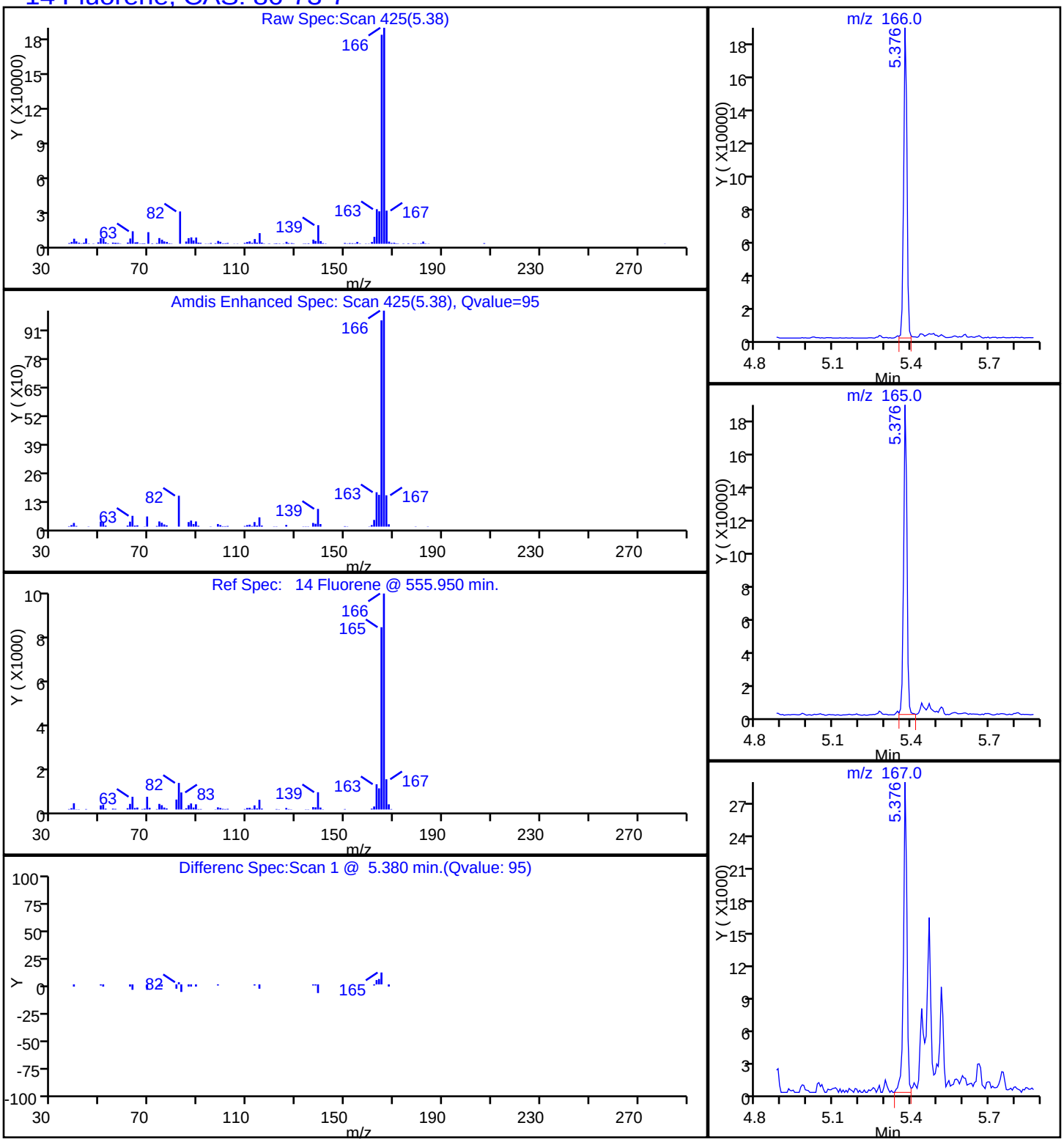
Lims ID:	680-107159-B-6-A	Lab Sample ID:	680-107159-6		
Client ID:	FM0281D-CS6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

14 Fluorene, CAS: 86-73-7

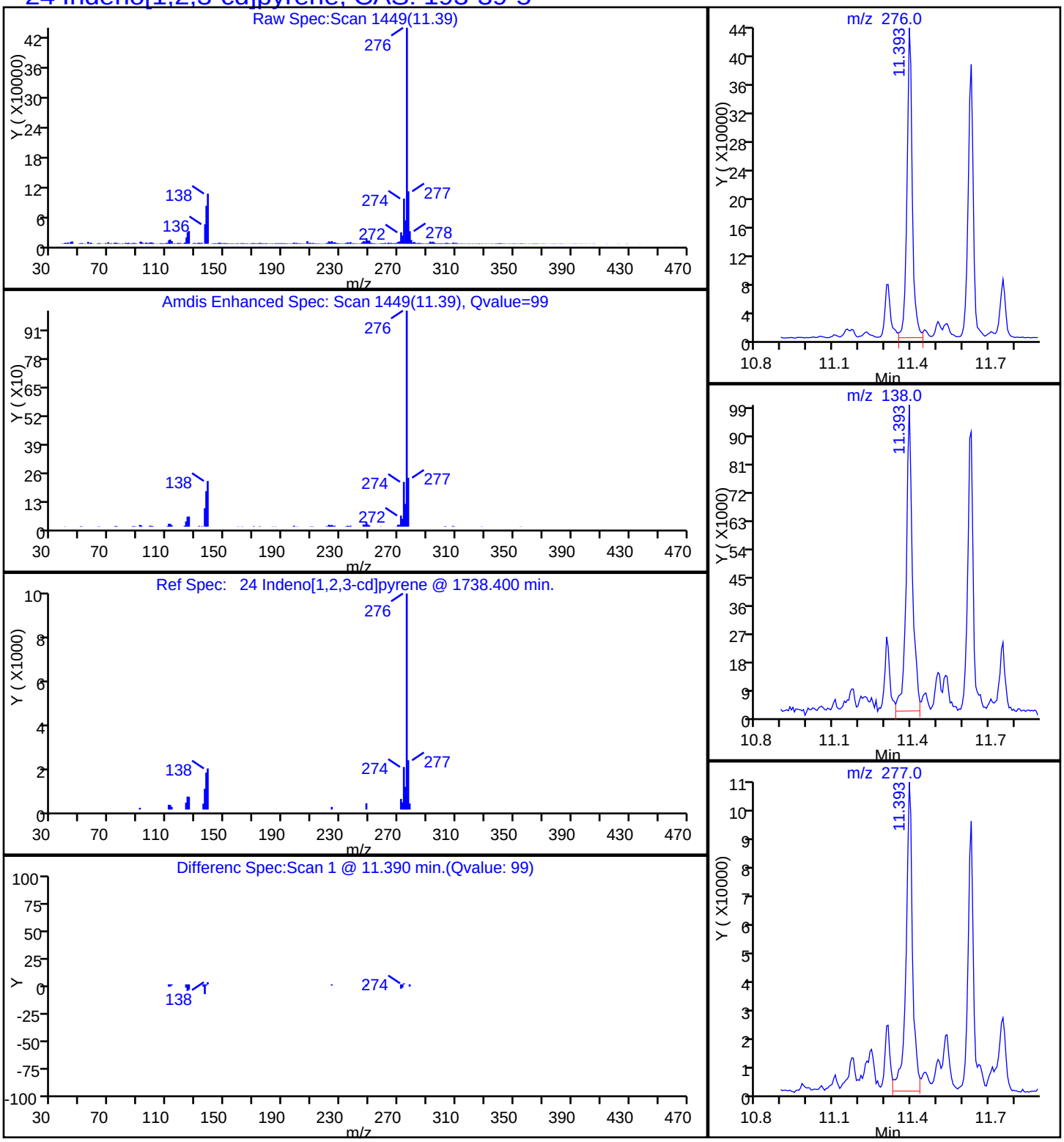


Report Date: 20-Nov-2014 10:09:46 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1914.D				
Injection Date:	19-Nov-2014 17:01:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-6-A	Lab Sample ID:	680-107159-6		
Client ID:	FM0281D-CS6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



Report Date: 20-Nov-2014 10:09:46 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1914.D				
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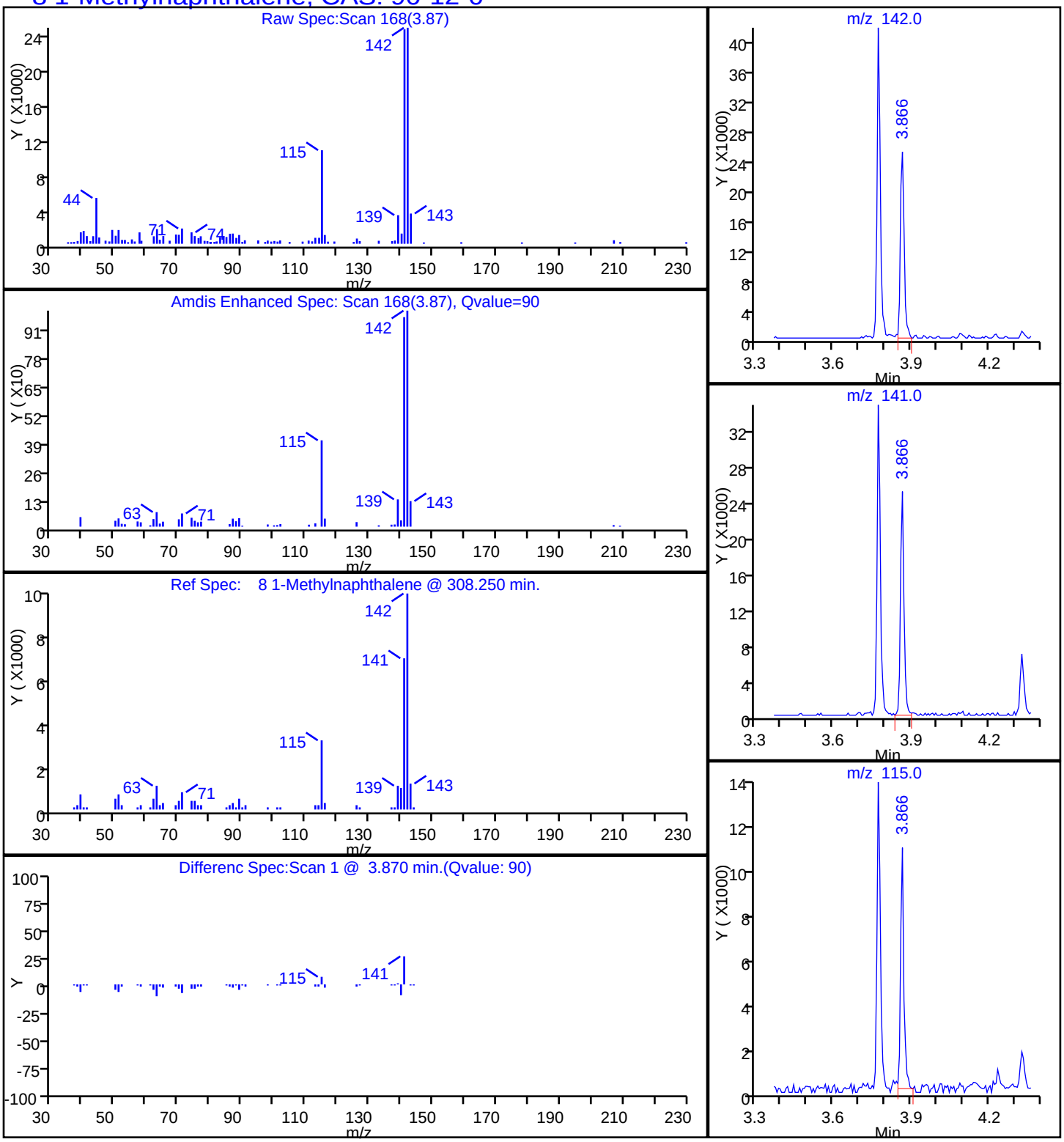
Lims ID:	680-107159-B-6-A	Lab Sample ID:	680-107159-6		
Client ID:	FM0281D-CS6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

8 1-Methylnaphthalene, CAS: 90-12-0



Report Date: 20-Nov-2014 10:09:46 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

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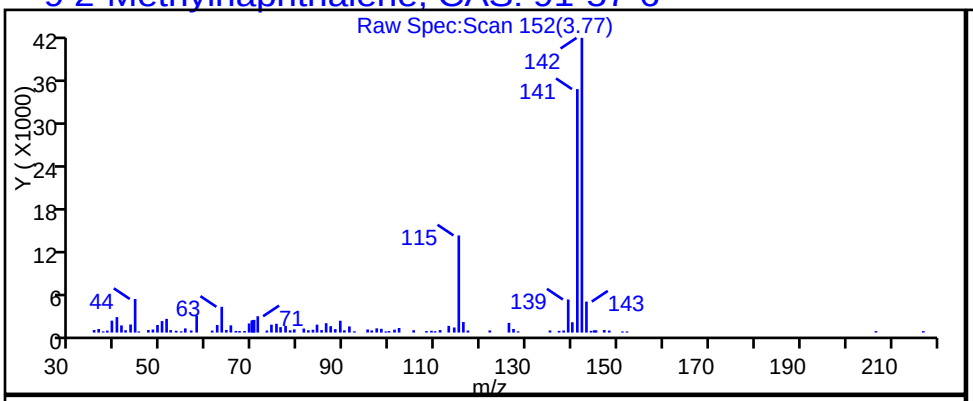
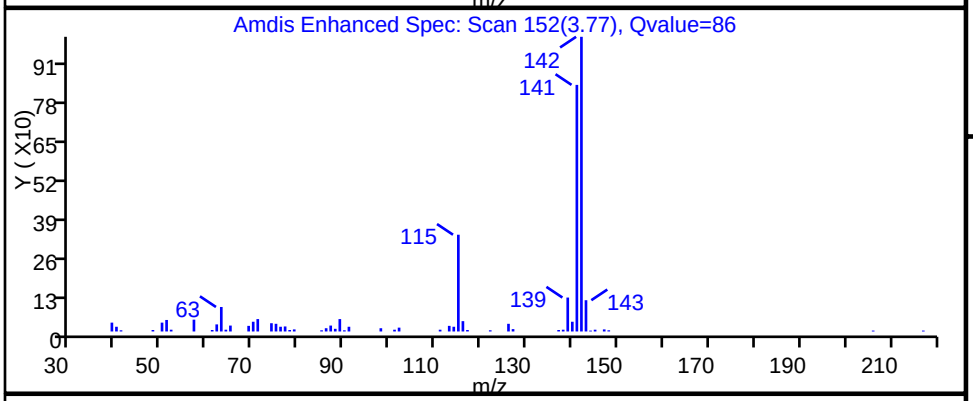
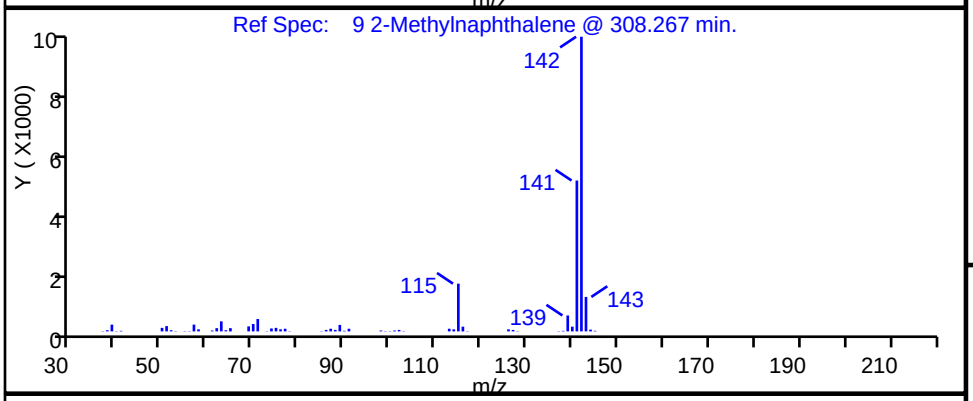
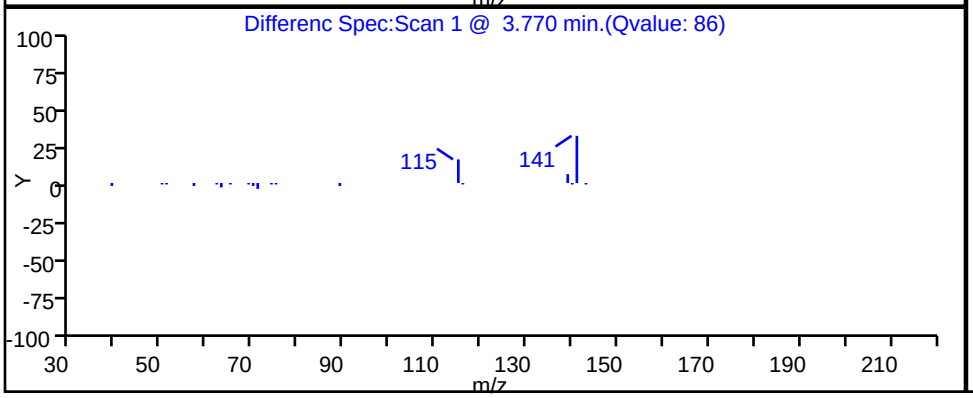
Client ID:	FM0281D-CS6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

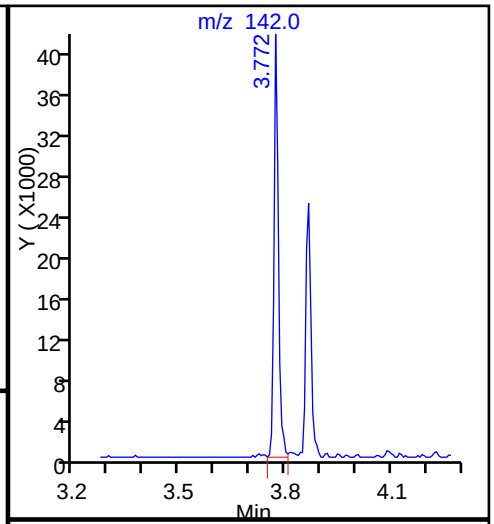
9 2-Methylnaphthalene, CAS: 91-57-6

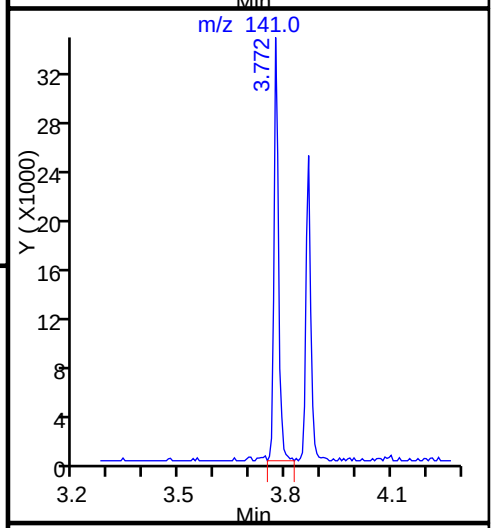


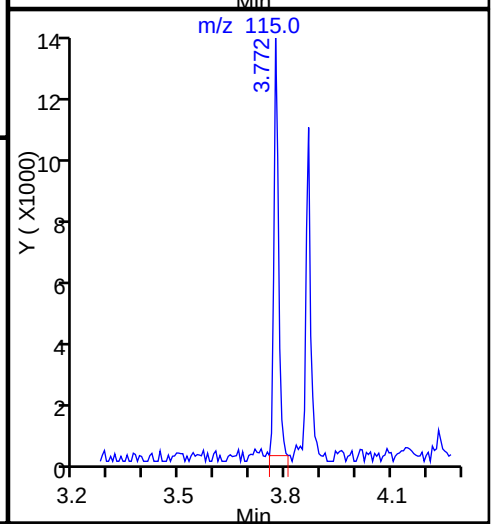










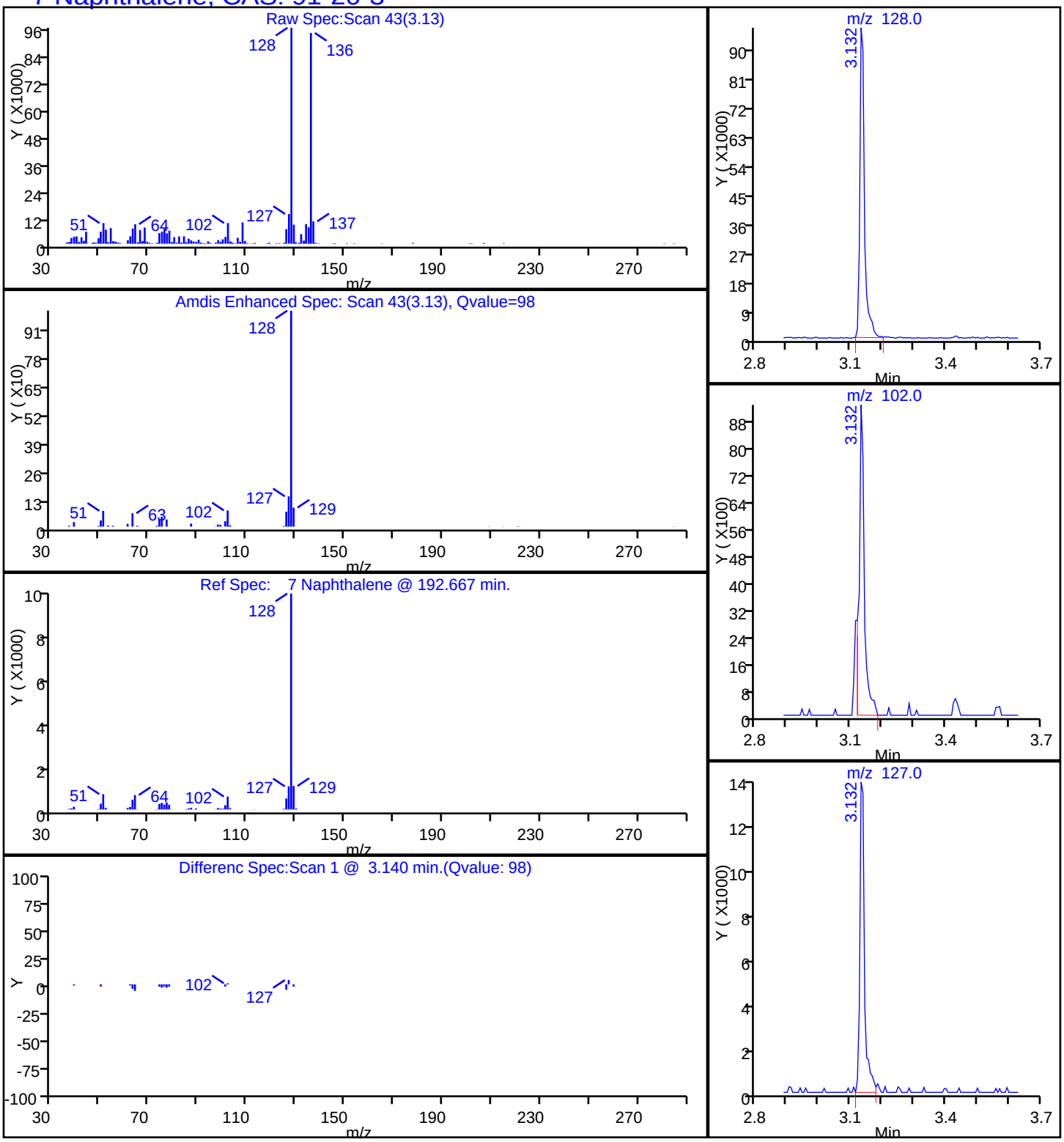


Report Date: 20-Nov-2014 10:09:46 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1914.D				
Injection Date:	19-Nov-2014 17:01:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-6-A	Lab Sample ID:	680-107159-6		
Client ID:	FM0281D-CS6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Naphthalene, CAS: 91-20-3

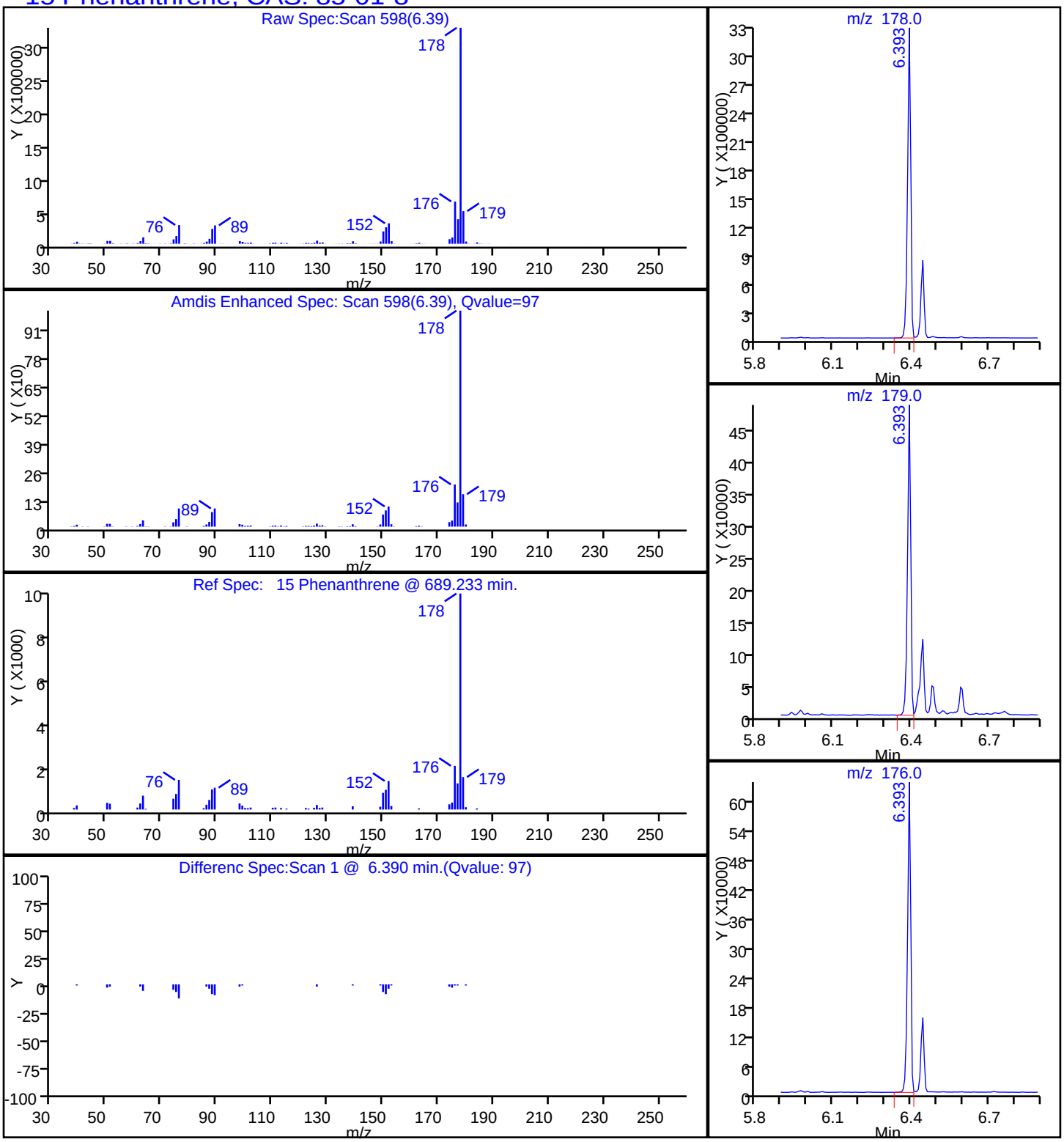


Report Date: 20-Nov-2014 10:09:46 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1914.D				
Injection Date:	19-Nov-2014 17:01:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-6-A	Lab Sample ID:	680-107159-6		
Client ID:	FM0281D-CS6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

15 Phenanthrene, CAS: 85-01-8

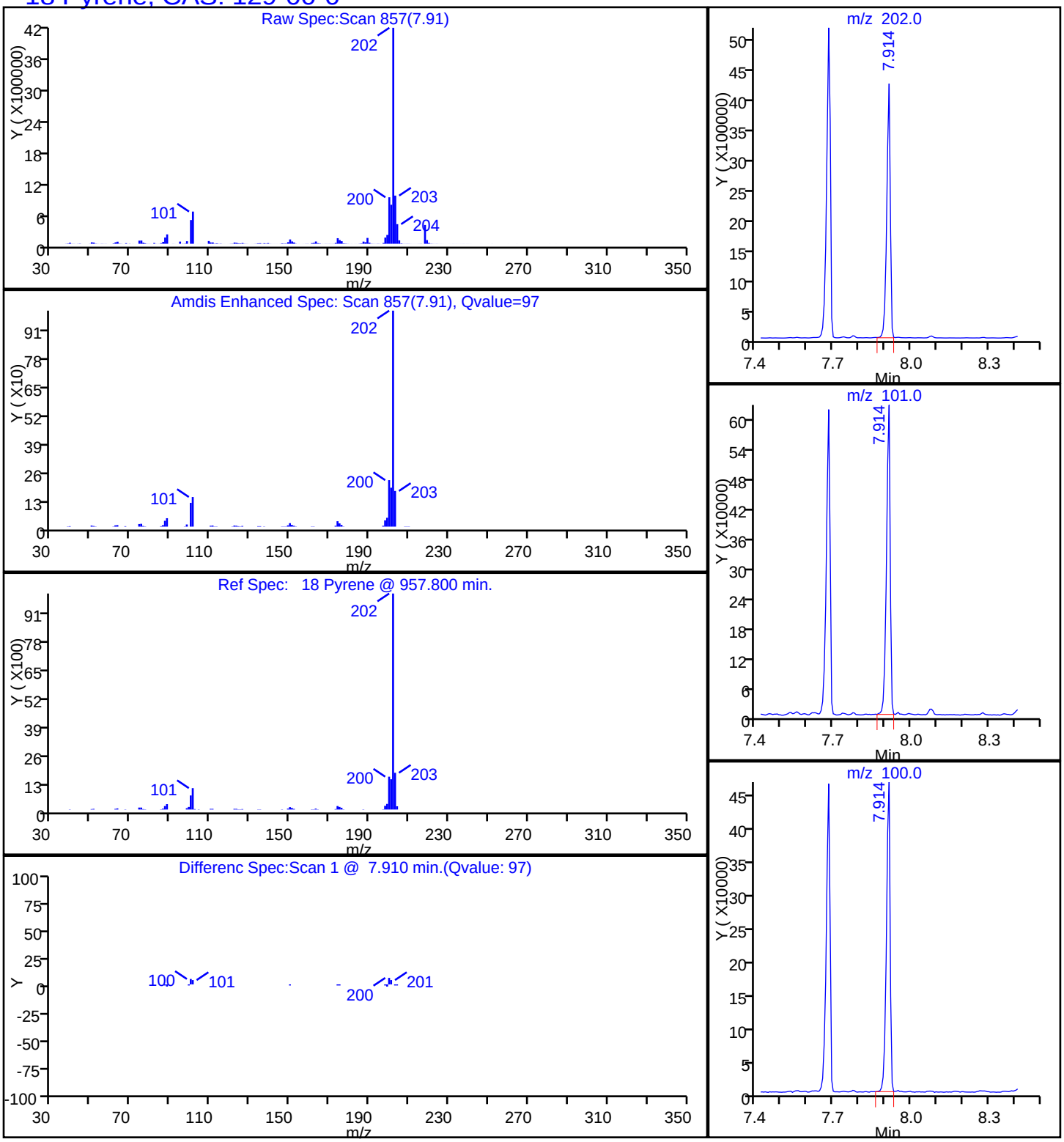


Report Date: 20-Nov-2014 10:09:46 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1914.D				
Injection Date:	19-Nov-2014 17:01:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-6-A	Lab Sample ID:	680-107159-6		
Client ID:	FM0281D-CS6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

18 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

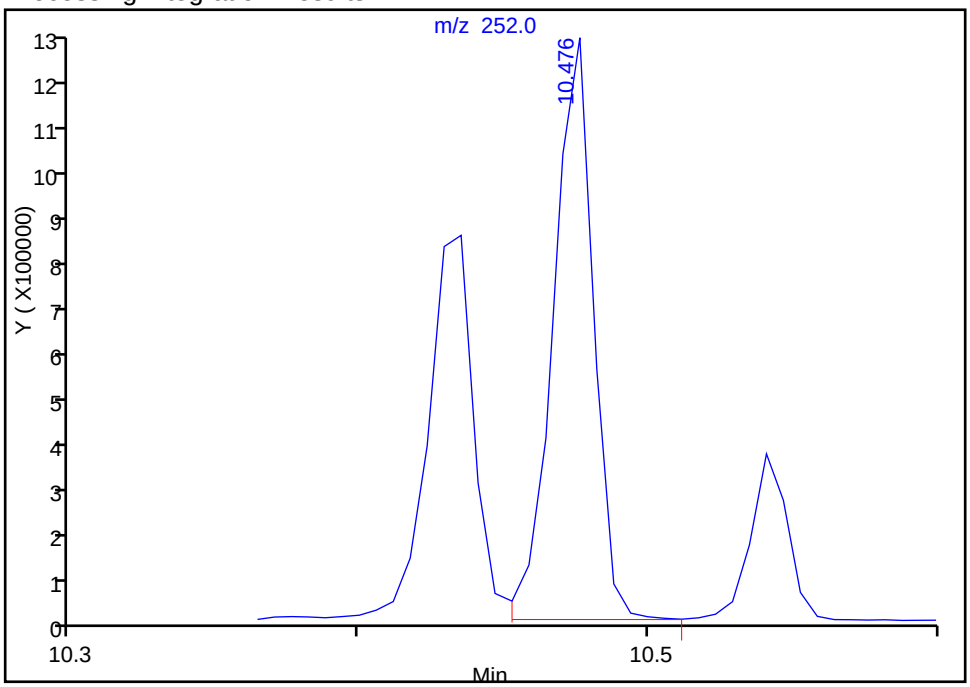
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1914.D				
Injection Date:	19-Nov-2014 17:01:30	Instrument ID:	CMSK		
Lims ID:	680-107159-B-6-A	Lab Sample ID:	680-107159-6		
Client ID:	FM0281D-CS6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Benzo[k]fluoranthene, CAS: 207-08-9

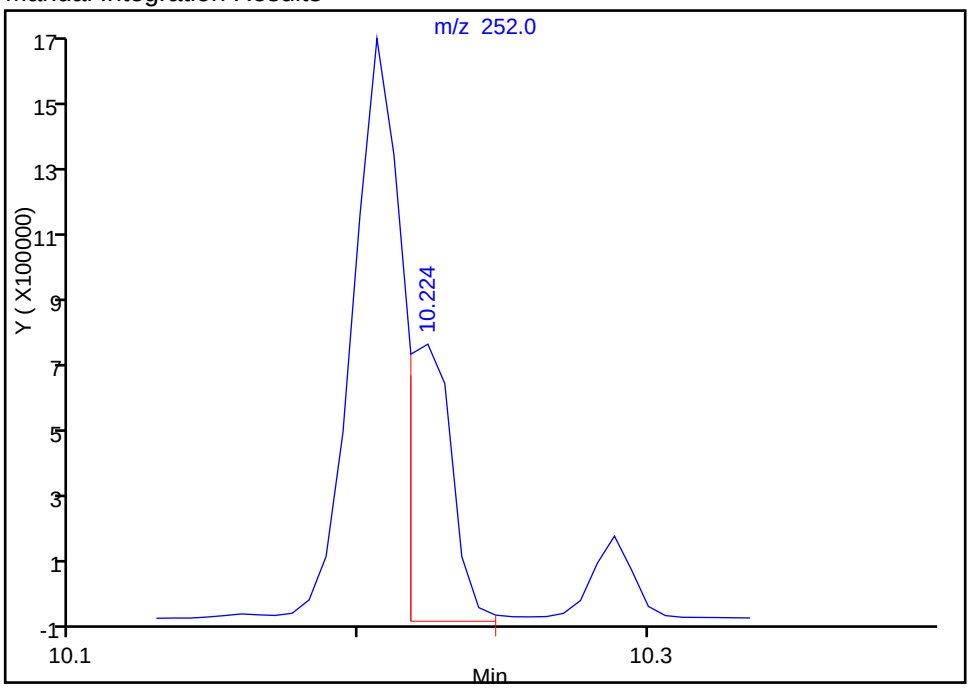
Processing Integration Results

RT: 10.48
Response: 1190672
Amount: 3.830841



Manual Integration Results

RT: 10.22
Response: 887685
Amount: 2.856018



Reviewer: webbk, 20-Nov-2014 08:15:37
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281D-CS12" | Lab Sample ID: 680-107159-7

Matrix: Solid | Lab File ID: 1YK1724.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 09:41

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.09(g) | Date Analyzed: 11/18/2014 19:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

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

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	78	U	78	38
208-96-8	Acenaphthylene	78	U	78	38
120-12-7	Anthracene	66	J	78	38
56-55-3	Benzo[a]anthracene	340		78	38
50-32-8	Benzo[a]pyrene	390		78	14
205-99-2	Benzo[b]fluoranthene	500		78	38
191-24-2	Benzo[g,h,i]perylene	230		78	38
207-08-9	Benzo[k]fluoranthene	200		78	23
218-01-9	Chrysene	380		78	38
53-70-3	Dibenz(a,h)anthracene	90		78	38
206-44-0	Fluoranthene	580		78	38
86-73-7	Fluorene	78	U	78	38
193-39-5	Indeno[1,2,3-cd]pyrene	180		78	38
90-12-0	1-Methylnaphthalene	78	U	78	36
91-57-6	2-Methylnaphthalene	78	U	78	38
91-20-3	Naphthalene	43	J	78	38
85-01-8	Phenanthrene	320		78	28
129-00-0	Pyrene	560		78	38

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1724.D
Lims ID: 680-107159-B-7-A Lab Sample ID: 680-107159-7
Client ID: FM0281D-CS12"
Sample Type: Client
Inject. Date: 18-Nov-2014 19:36:30 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Sample Info: 107159-B-7-A 1:10
Misc. Info.: 680-0014871-024
Operator ID: Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 19-Nov-2014 08:10:37 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: webbk Date: 19-Nov-2014 08:00:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.264	4.264	0.000	99	579905	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	92	330492	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	561487	2.00	
* 4 Chrysene-d12	240	10.661	10.655	0.006	99	406627	2.00	
* 5 Perylene-d12	264	12.276	12.265	0.011	99	261007	2.00	
7 Naphthalene	128	4.285	4.285	0.000	99	33769	0.1107	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	86	16087	0.0814	
10 1-Methylnaphthalene	142	5.088	5.087	0.001	79	9783	0.0543	
14 Acenaphthene	153	6.141	6.141	0.000	94	12410	0.0600	
16 Fluorene	166	6.714	6.713	0.001	96	16294	0.0737	
17 Phenanthrene	178	7.794	7.794	0.000	97	270630	0.8299	
18 Anthracene	178	7.853	7.853	0.000	99	53101	0.1723	
19 Fluoranthene	202	9.126	9.126	0.000	98	483622	1.50	
20 Pyrene	202	9.372	9.372	0.000	97	367336	1.46	
21 Benzo[a]anthracene	228	10.650	10.645	0.005	97	201880	0.8902	
22 Chrysene	228	10.682	10.682	0.000	99	197964	0.9835	
23 Benzo[b]fluoranthene	252	11.805	11.795	0.010	98	209034	1.30	M
24 Benzo[k]fluoranthene	252	11.821	11.827	-0.006	96	88425	0.5144	M
25 Benzo[a]pyrene	252	12.201	12.196	0.005	98	127627	1.00	
26 Indeno[1,2,3-cd]pyrene	276	13.897	13.870	0.027	99	83185	0.4726	
27 Dibenz(a,h)anthracene	278	13.918	13.897	0.021	94	25238	0.2335	
28 Benzo[g,h,i]perylene	276	14.383	14.357	0.026	98	72489	0.5982	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

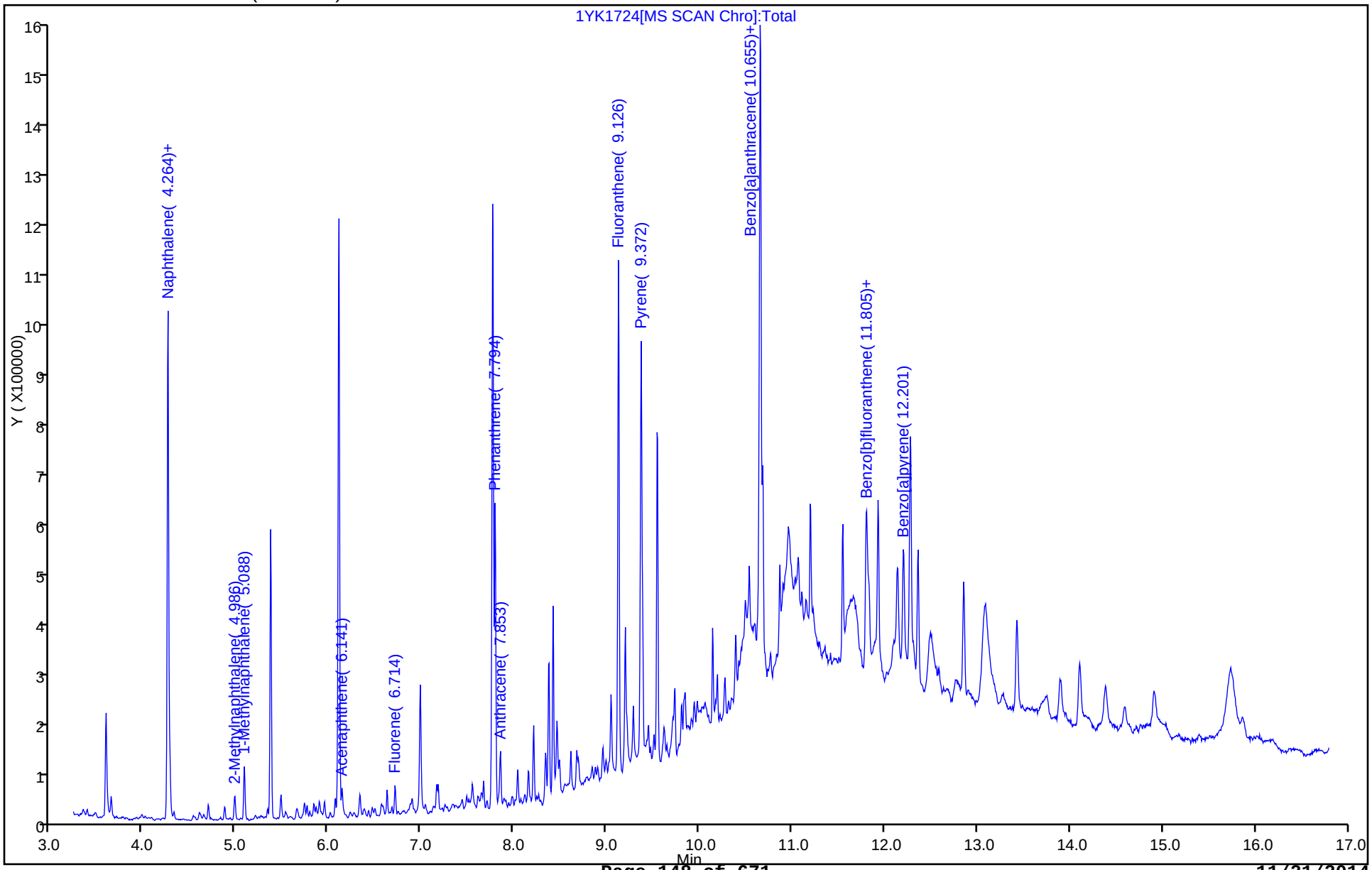
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Nov-2014 08:49:42 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1724.D				
Injection Date:	18-Nov-2014 19:36:30	Instrument ID:	CMSY	Operator ID:	
Lims ID:	680-107159-B-7-A	Lab Sample ID:	680-107159-7	Worklist Smp#:	24
Client ID:	FM0281D-CS12"				
Injection Vol:	2.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	24
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)

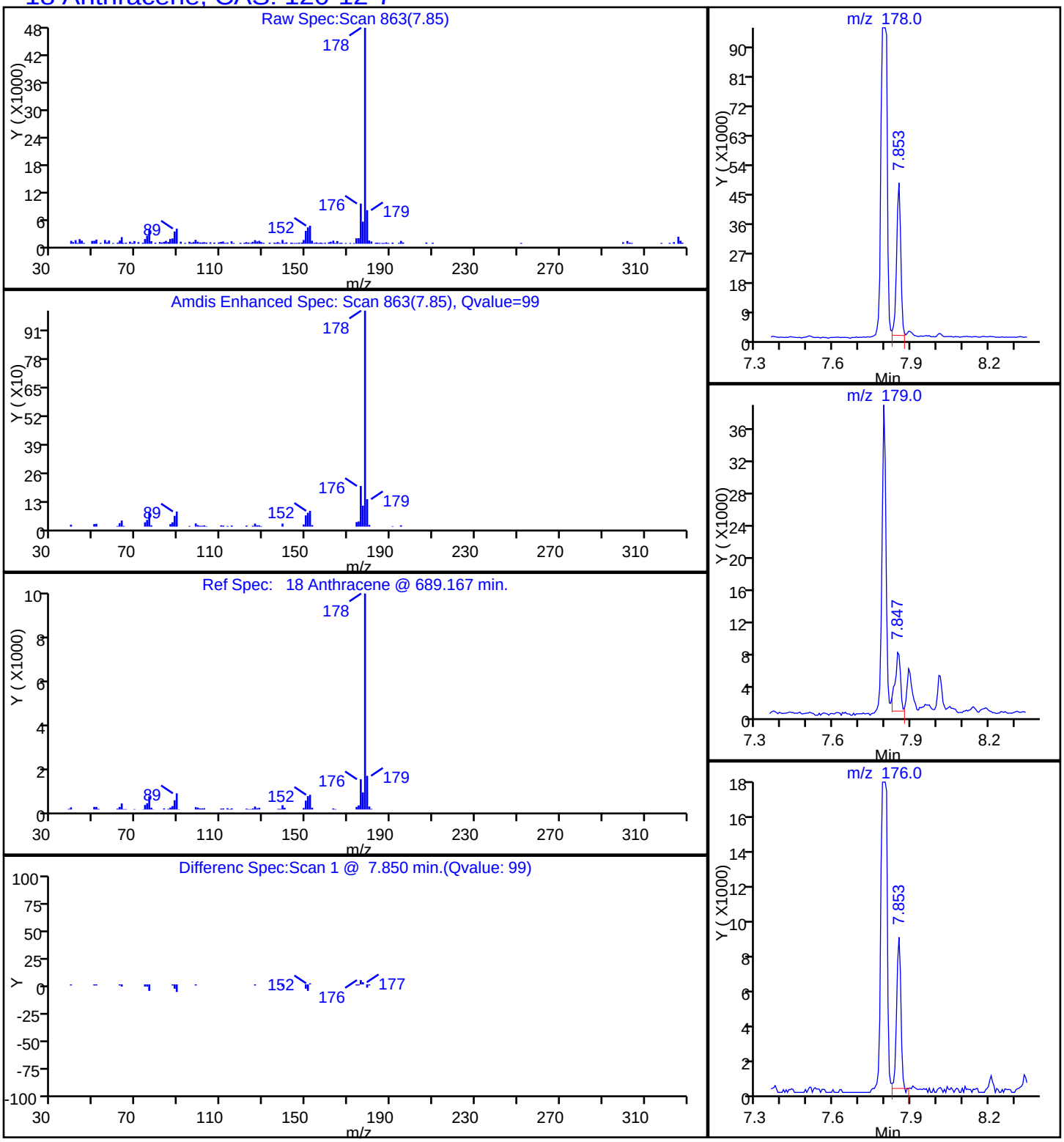


Report Date: 19-Nov-2014 08:49:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1724.D				
Injection Date:	18-Nov-2014 19:36:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-7-A	Lab Sample ID:	680-107159-7		
Client ID:	FM0281D-CS12"				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

18 Anthracene, CAS: 120-12-7

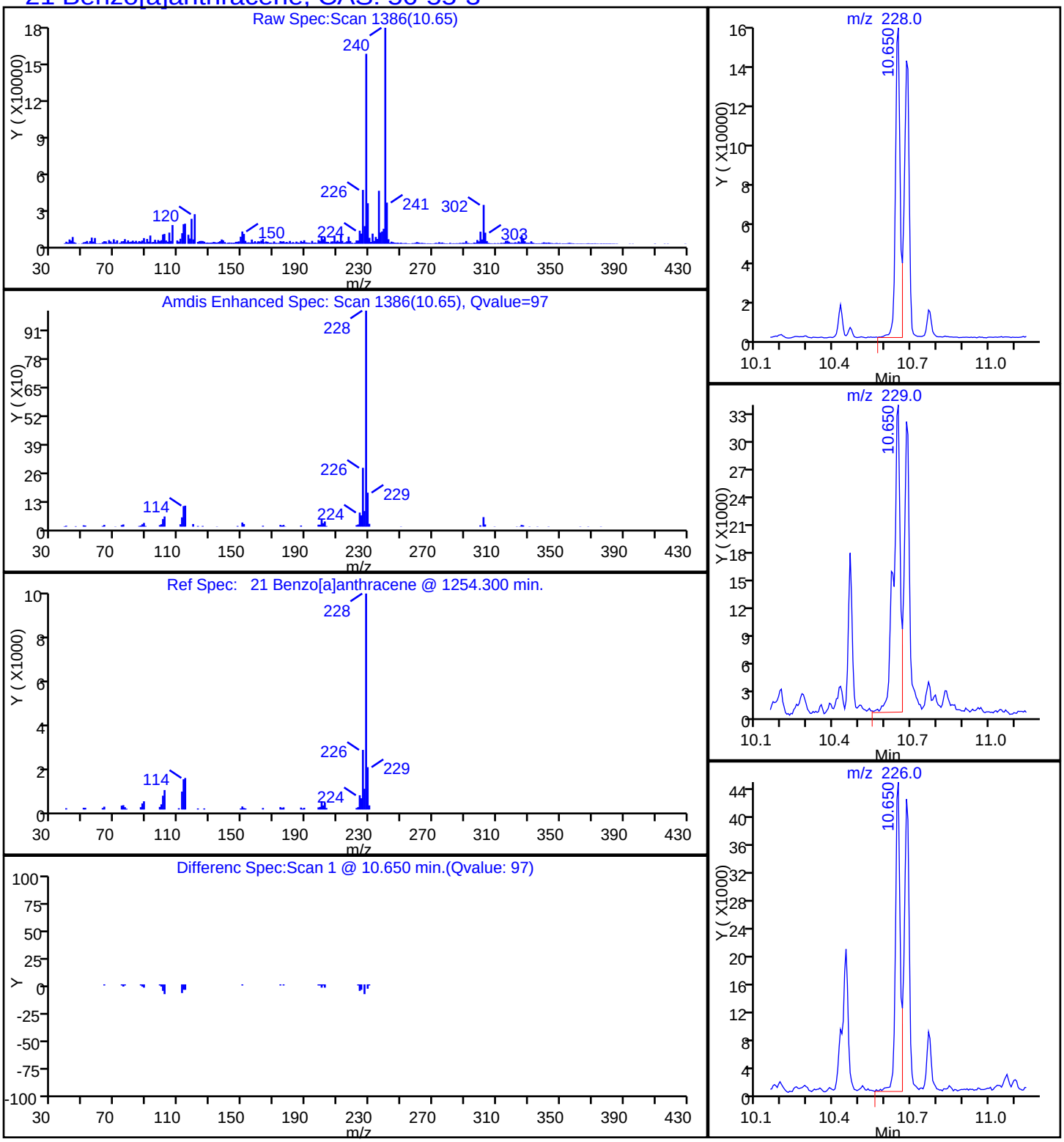


Report Date: 19-Nov-2014 08:49:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1724.D				
Injection Date:	18-Nov-2014 19:36:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-7-A	Lab Sample ID:	680-107159-7		
Client ID:	FM0281D-CS12"				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

21 Benzo[a]anthracene, CAS: 56-55-3

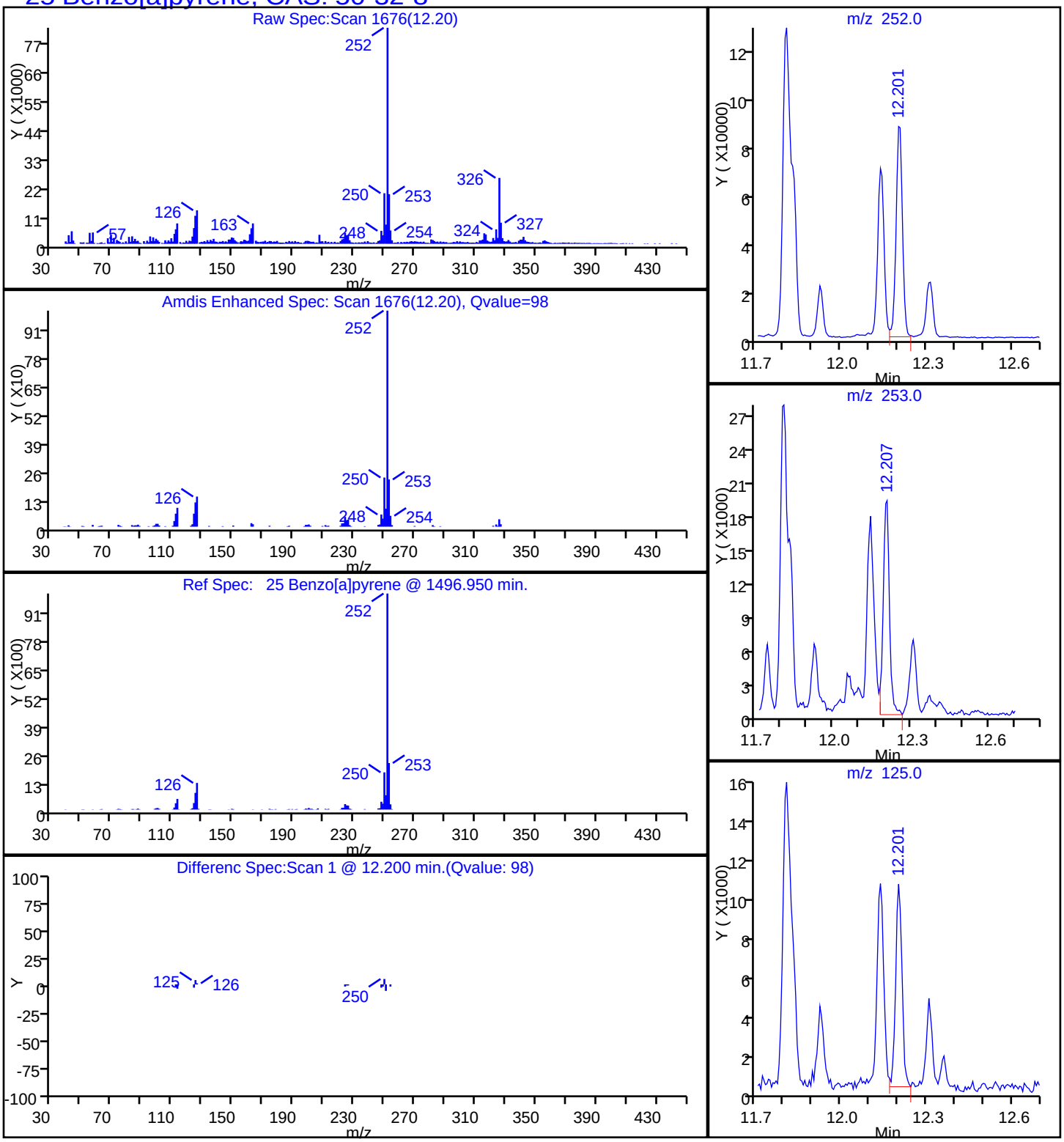


Report Date: 19-Nov-2014 08:49:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1724.D				
Injection Date:	18-Nov-2014 19:36:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-7-A	Lab Sample ID:	680-107159-7		
Client ID:	FM0281D-CS12"				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

25 Benzo[a]pyrene, CAS: 50-32-8

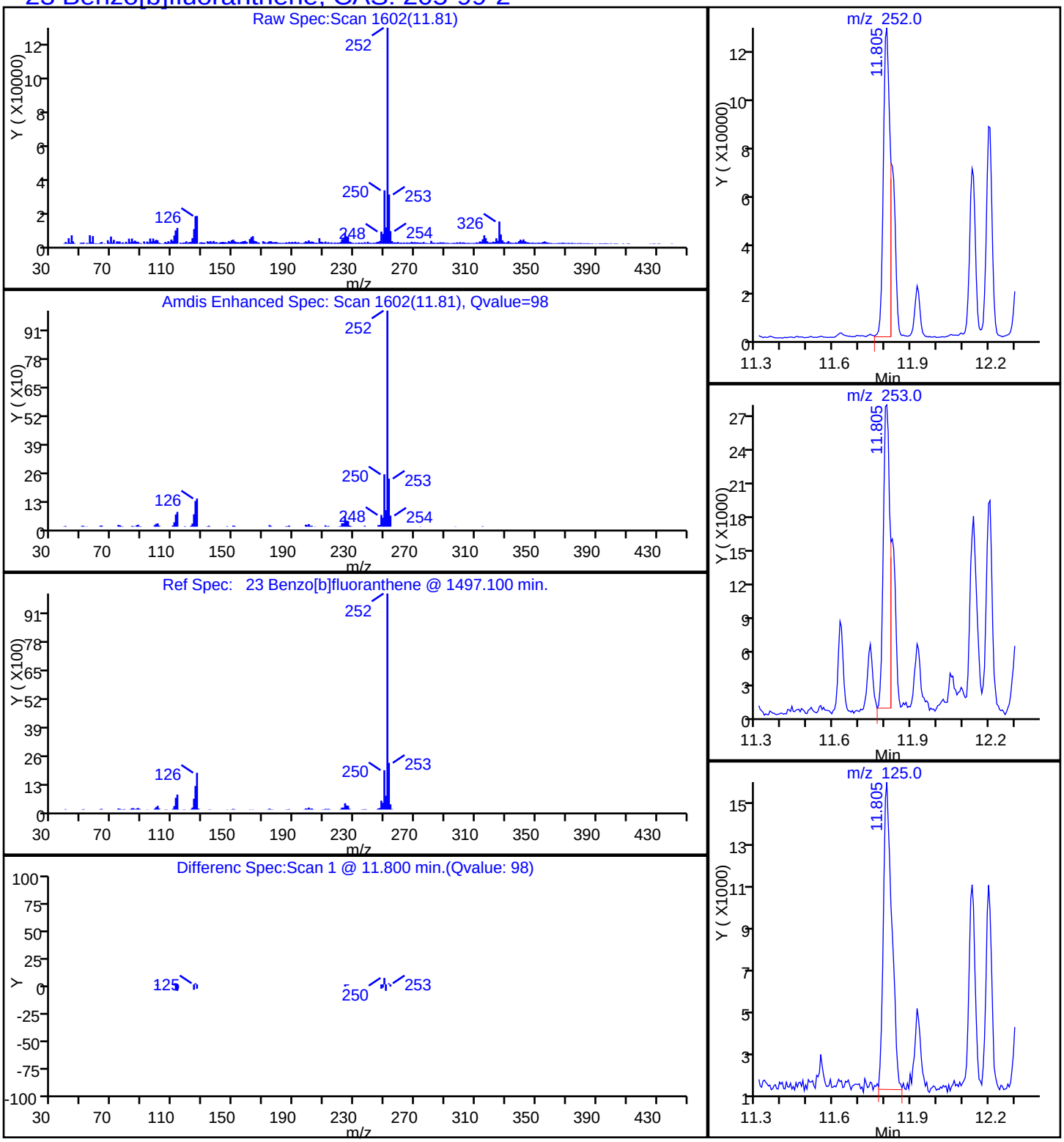


Report Date: 19-Nov-2014 08:49:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1724.D				
Injection Date:	18-Nov-2014 19:36:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-7-A	Lab Sample ID:	680-107159-7		
Client ID:	FM0281D-CS12"				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

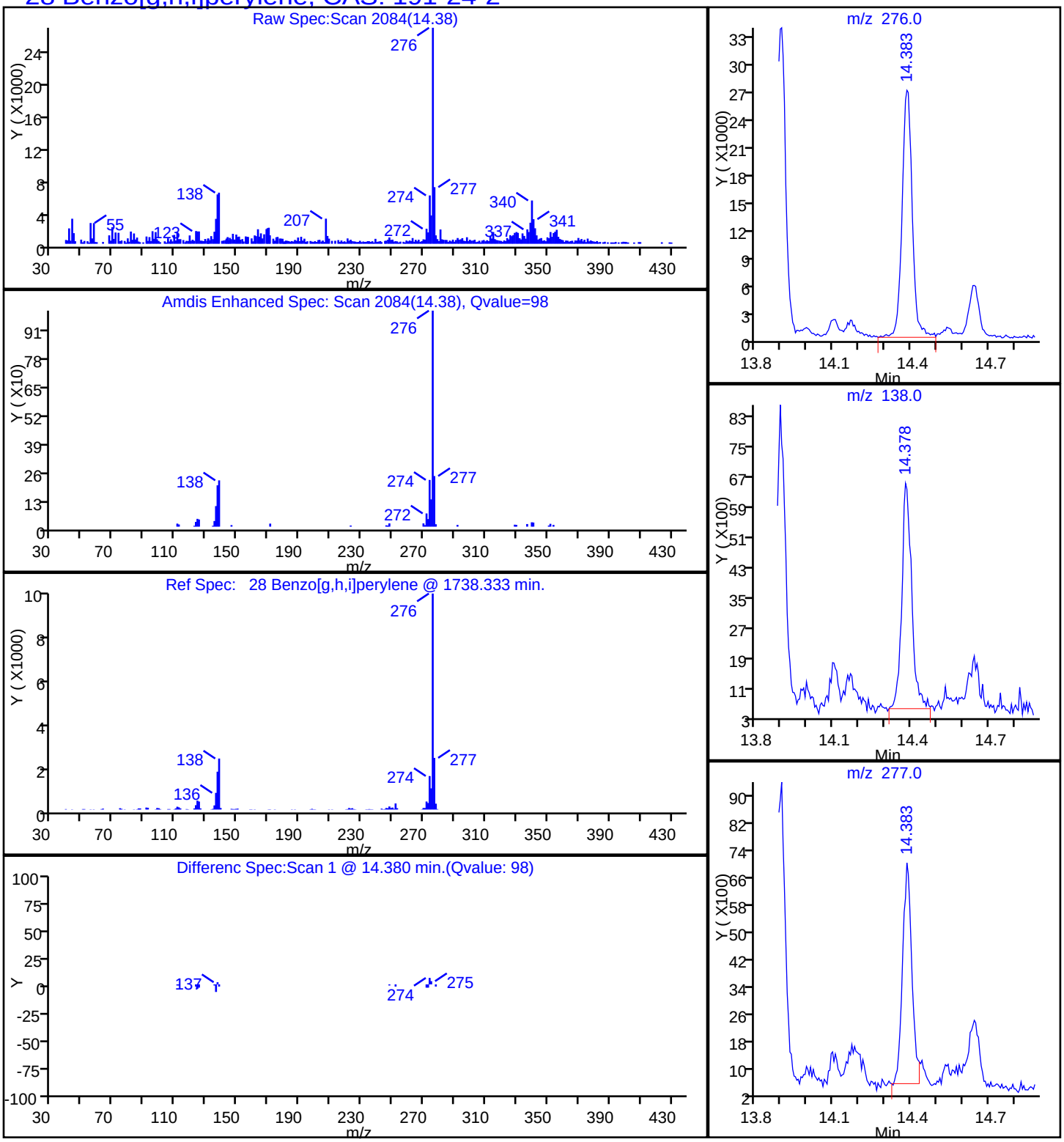


Report Date: 19-Nov-2014 08:49:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1724.D				
Injection Date:	18-Nov-2014 19:36:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-7-A	Lab Sample ID:	680-107159-7		
Client ID:	FM0281D-CS12"				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

28 Benzo[g,h,i]perylene, CAS: 191-24-2

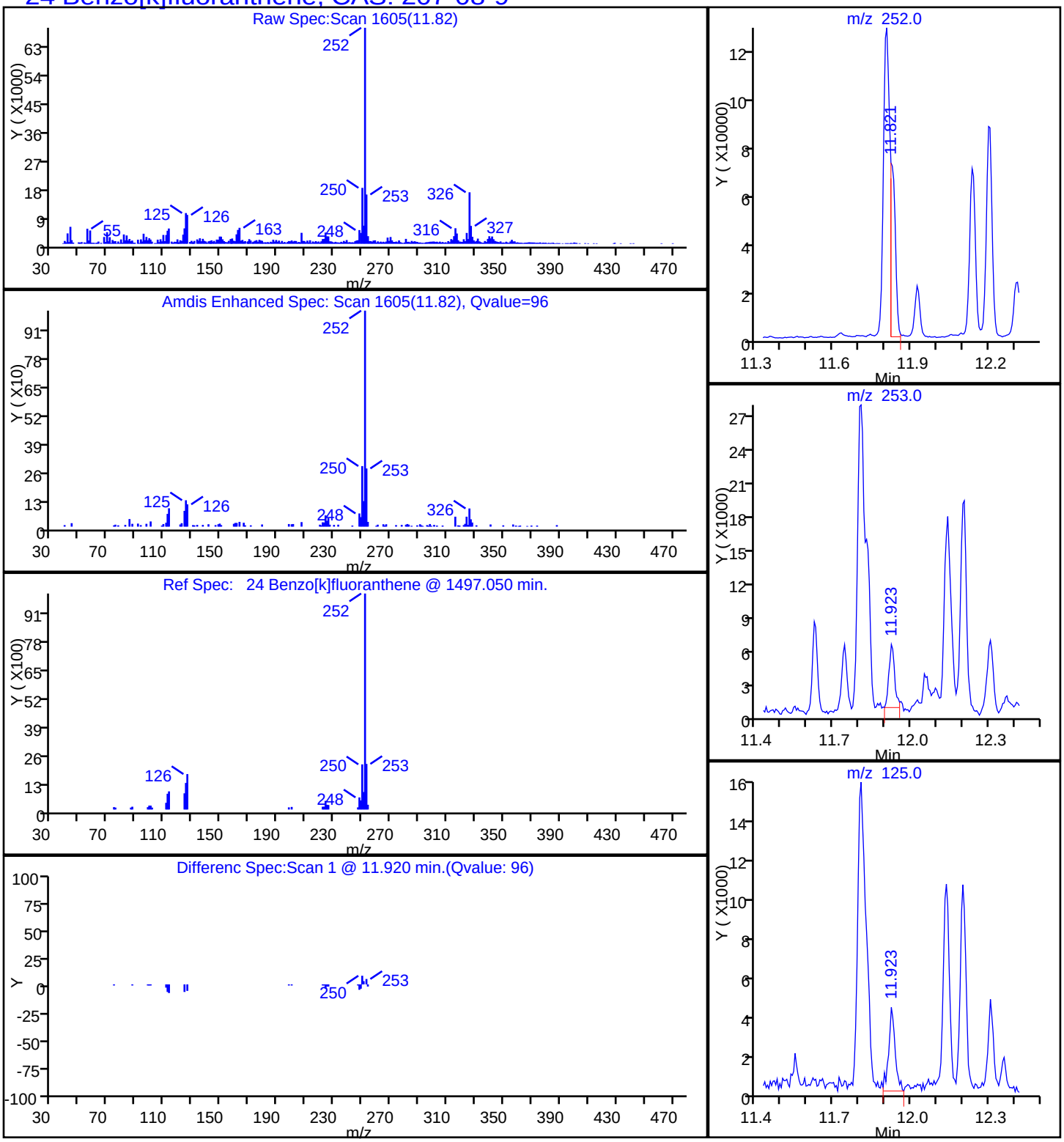


Report Date: 19-Nov-2014 08:49:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1724.D				
Injection Date:	18-Nov-2014 19:36:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-7-A	Lab Sample ID:	680-107159-7		
Client ID:	FM0281D-CS12"				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

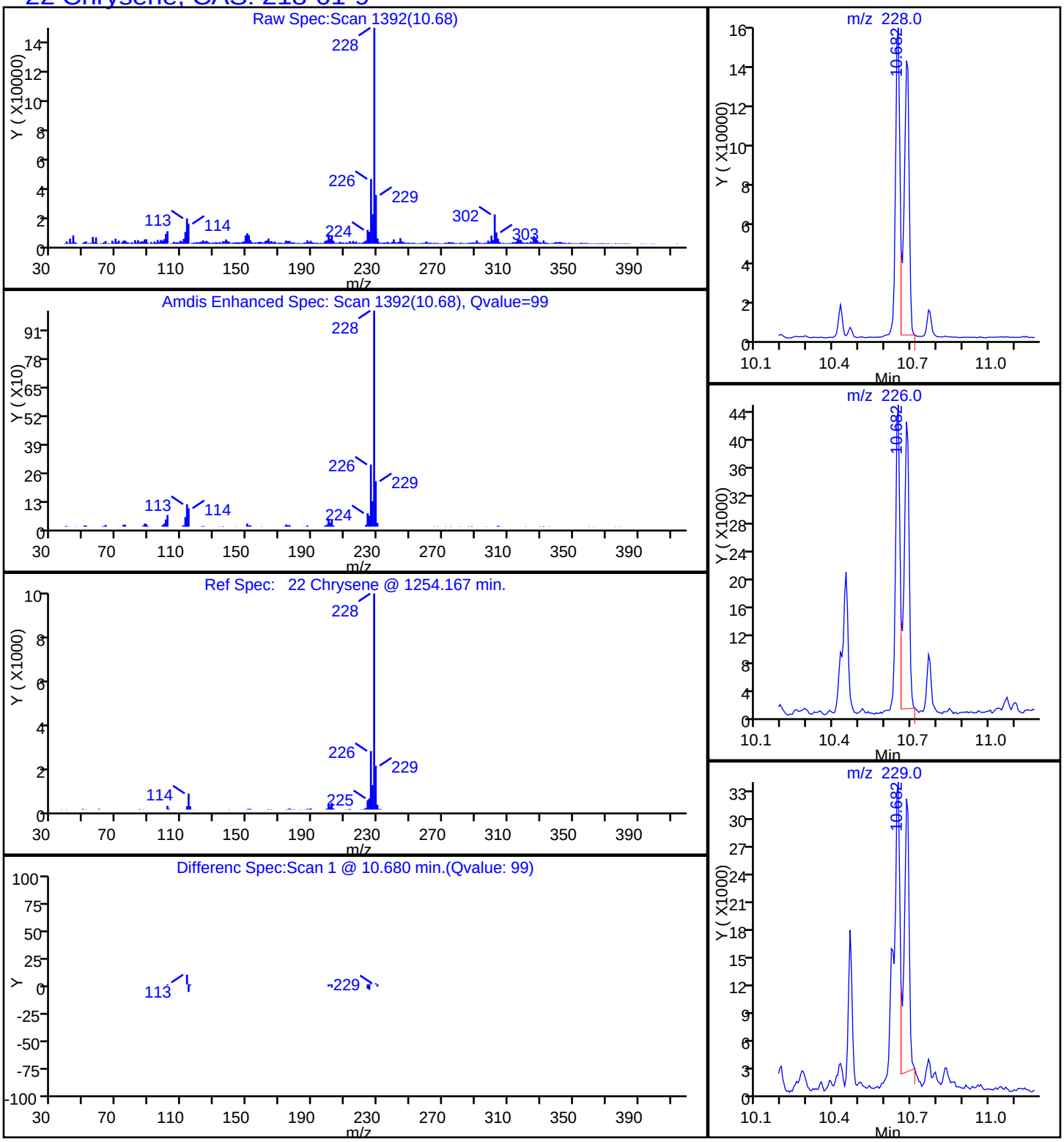


Report Date: 19-Nov-2014 08:49:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1724.D				
Injection Date:	18-Nov-2014 19:36:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-7-A	Lab Sample ID:	680-107159-7		
Client ID:	FM0281D-CS12"				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Chrysene, CAS: 218-01-9

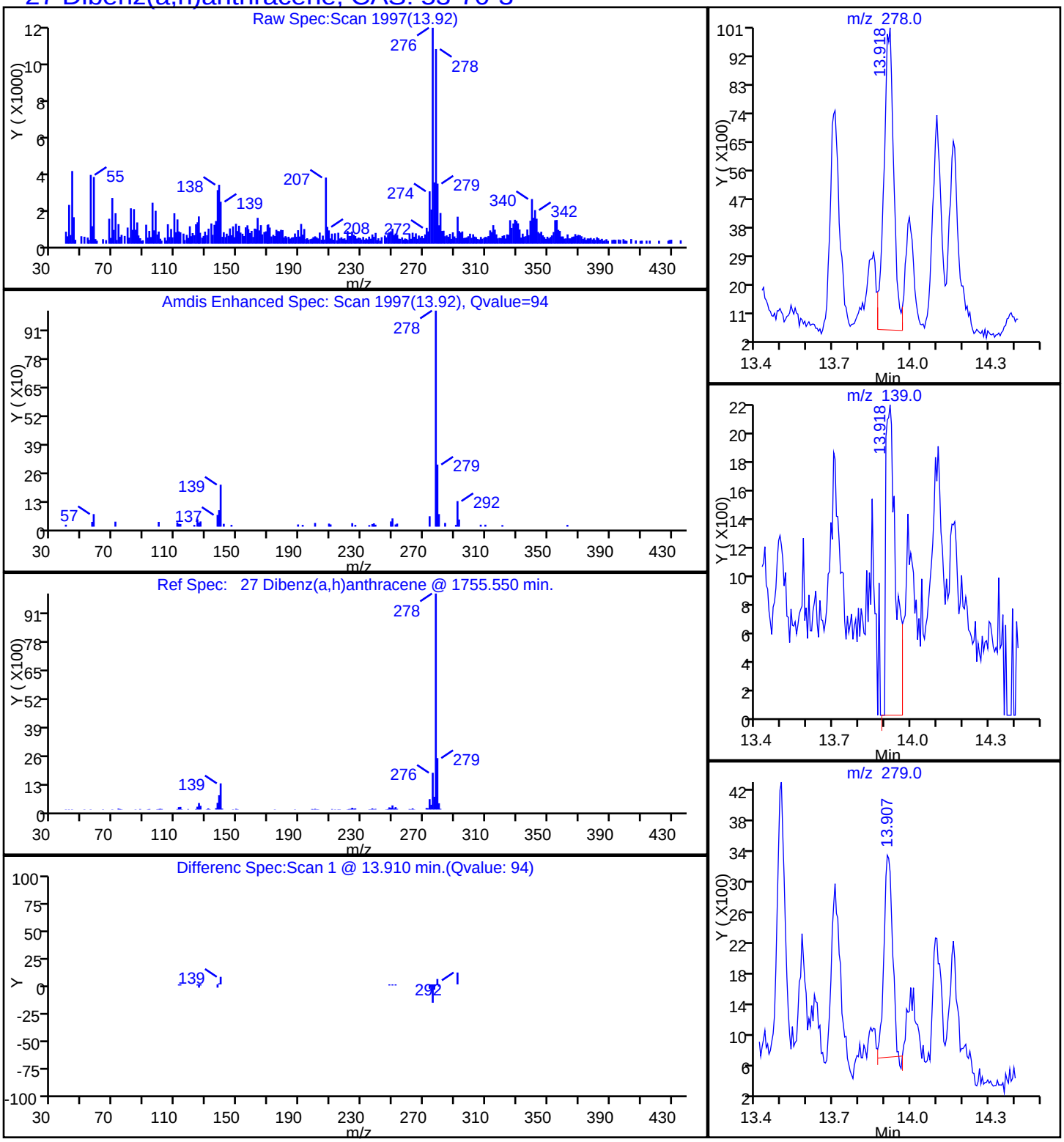


Report Date: 19-Nov-2014 08:49:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1724.D				
Injection Date:	18-Nov-2014 19:36:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-7-A	Lab Sample ID:	680-107159-7		
Client ID:	FM0281D-CS12"				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

27 Dibenz(a,h)anthracene, CAS: 53-70-3

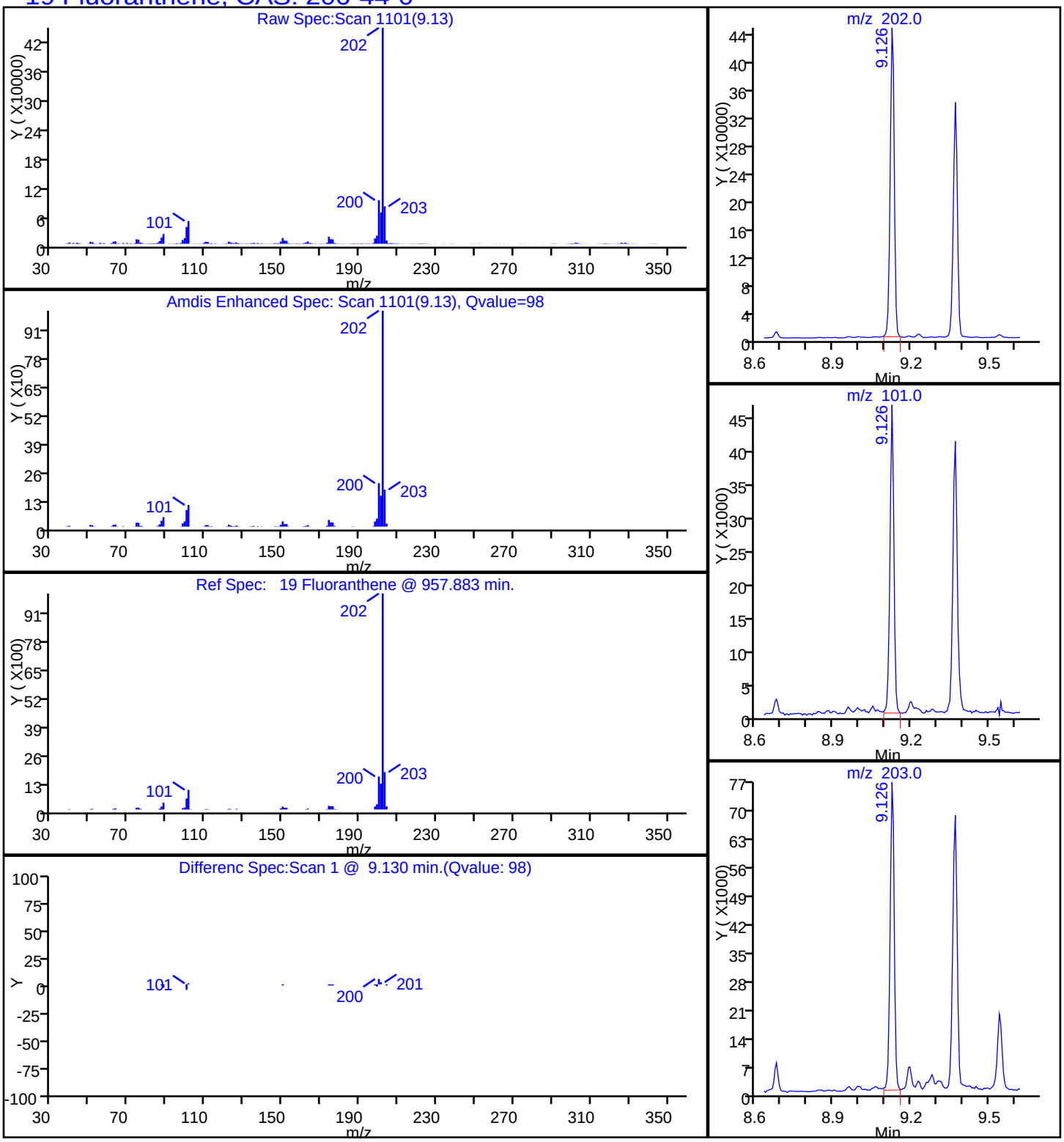


Report Date: 19-Nov-2014 08:49:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1724.D				
Injection Date:	18-Nov-2014 19:36:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-7-A	Lab Sample ID:	680-107159-7		
Client ID:	FM0281D-CS12"				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 Fluoranthene, CAS: 206-44-0

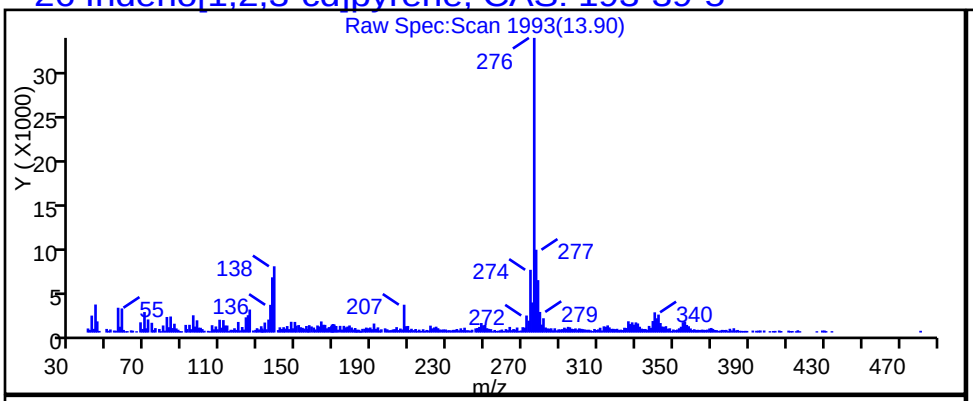


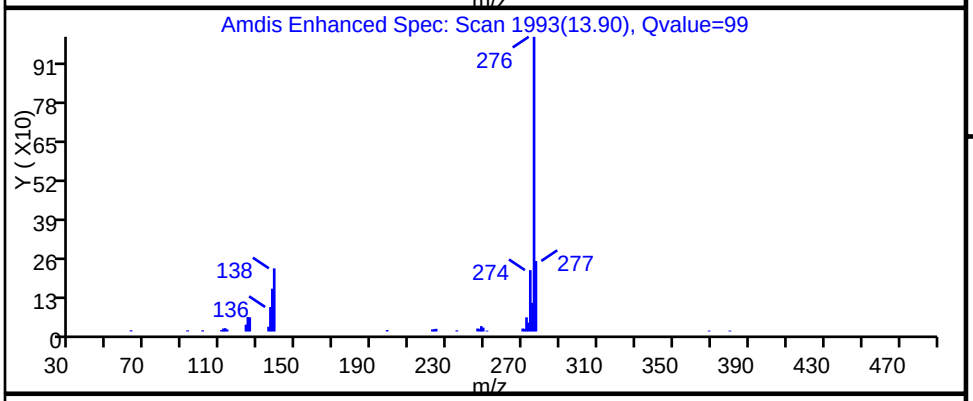
Report Date: 19-Nov-2014 08:49:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

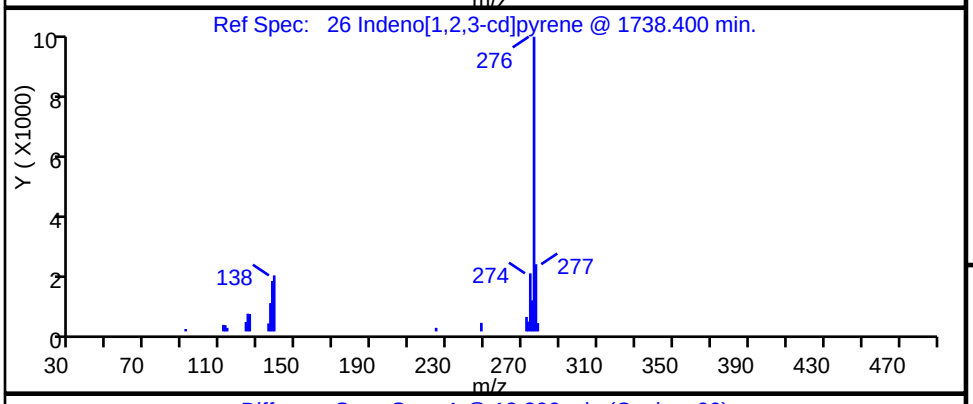
TestAmerica Savannah

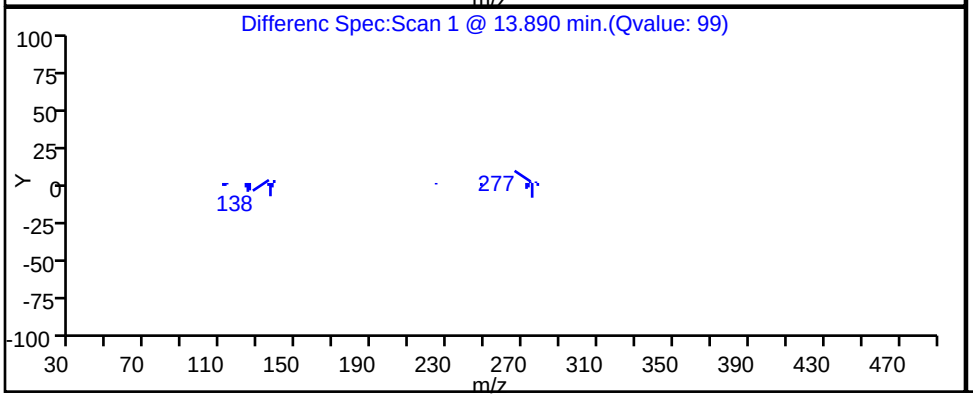
Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1724.D				
Injection Date:	18-Nov-2014 19:36:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-7-A	Lab Sample ID:	680-107159-7		
Client ID:	FM0281D-CS12"				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

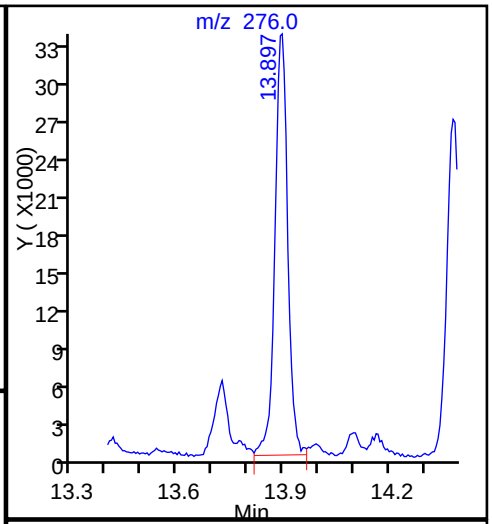
26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

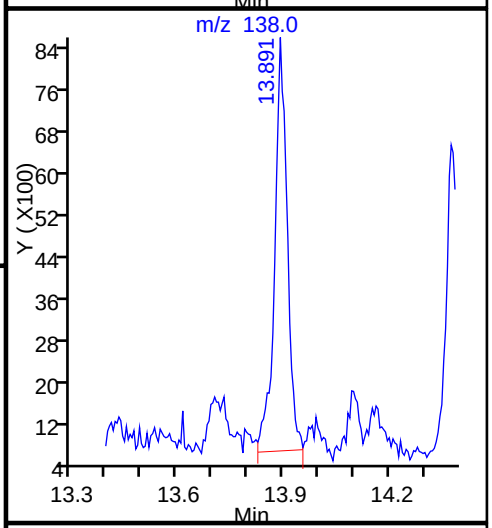


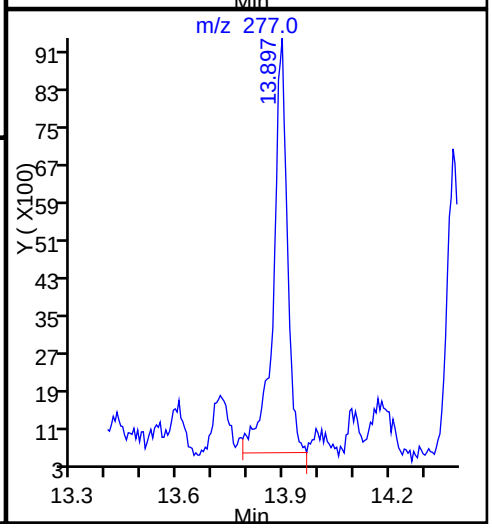










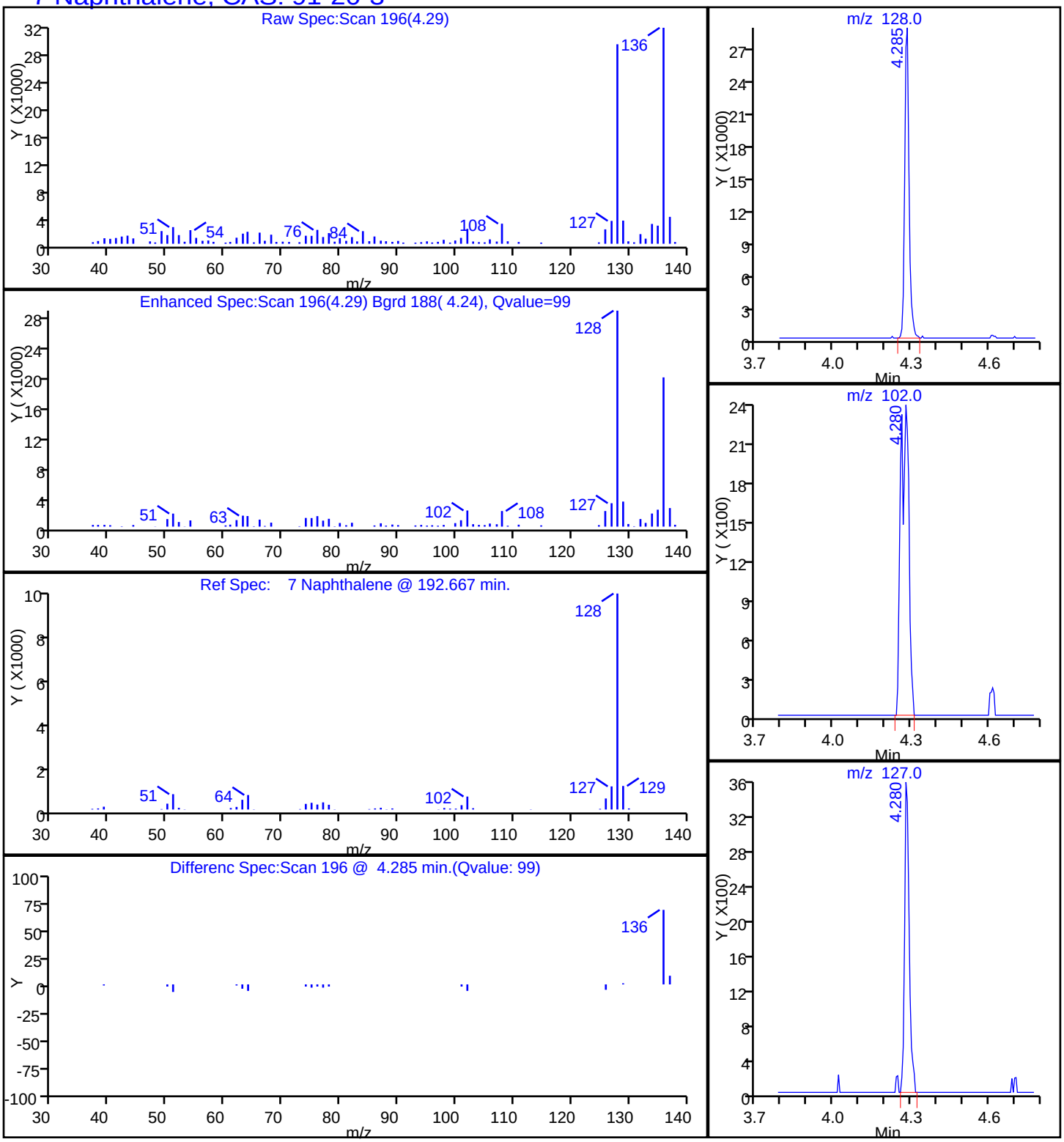


Report Date: 19-Nov-2014 08:49:42 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1724.D				
Injection Date:	18-Nov-2014 19:36:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-7-A	Lab Sample ID:	680-107159-7		
Client ID:	FM0281D-CS12"				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Naphthalene, CAS: 91-20-3

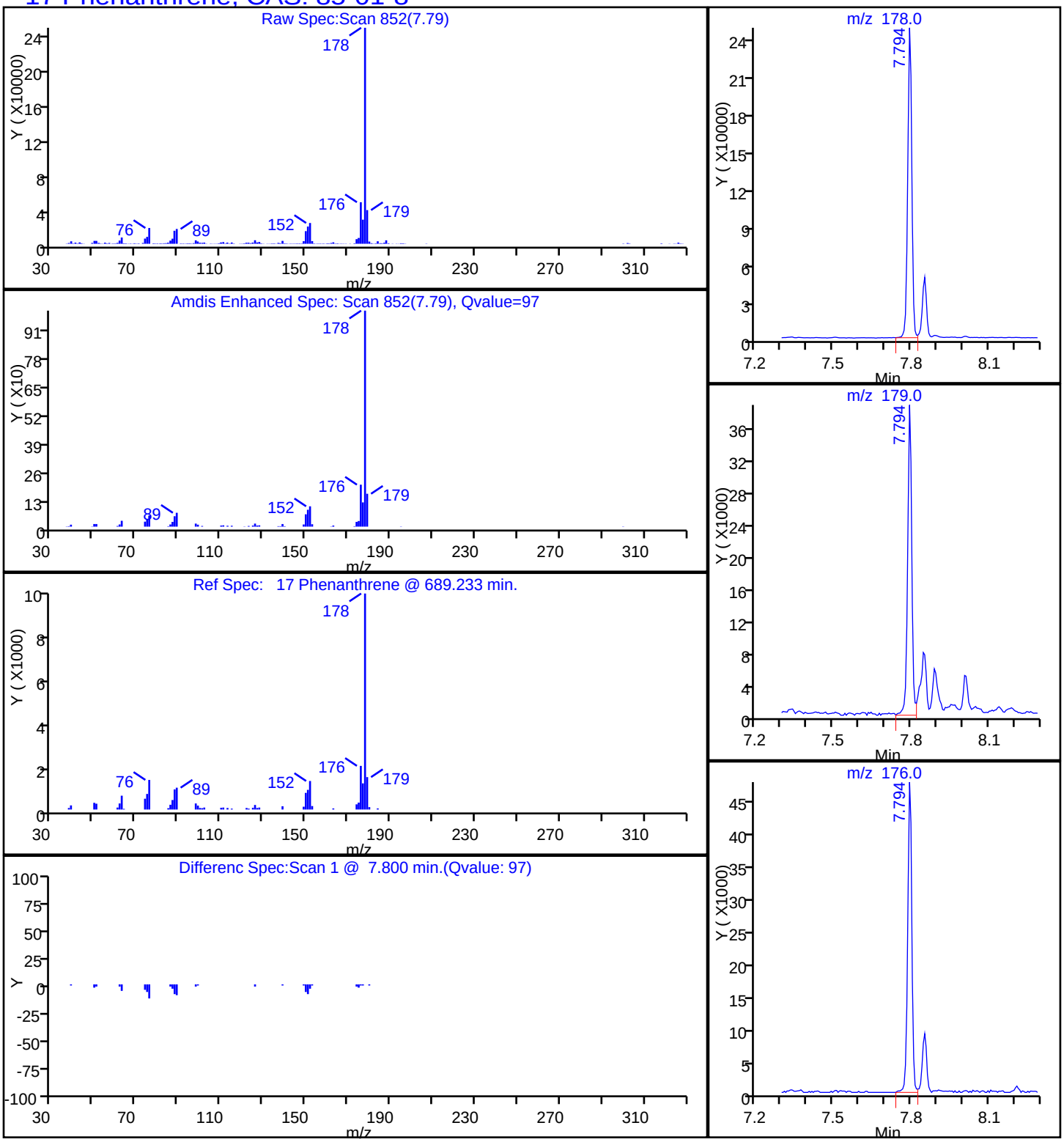


Report Date: 19-Nov-2014 08:49:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1724.D				
Injection Date:	18-Nov-2014 19:36:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-7-A	Lab Sample ID:	680-107159-7		
Client ID:	FM0281D-CS12"				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Phenanthrene, CAS: 85-01-8

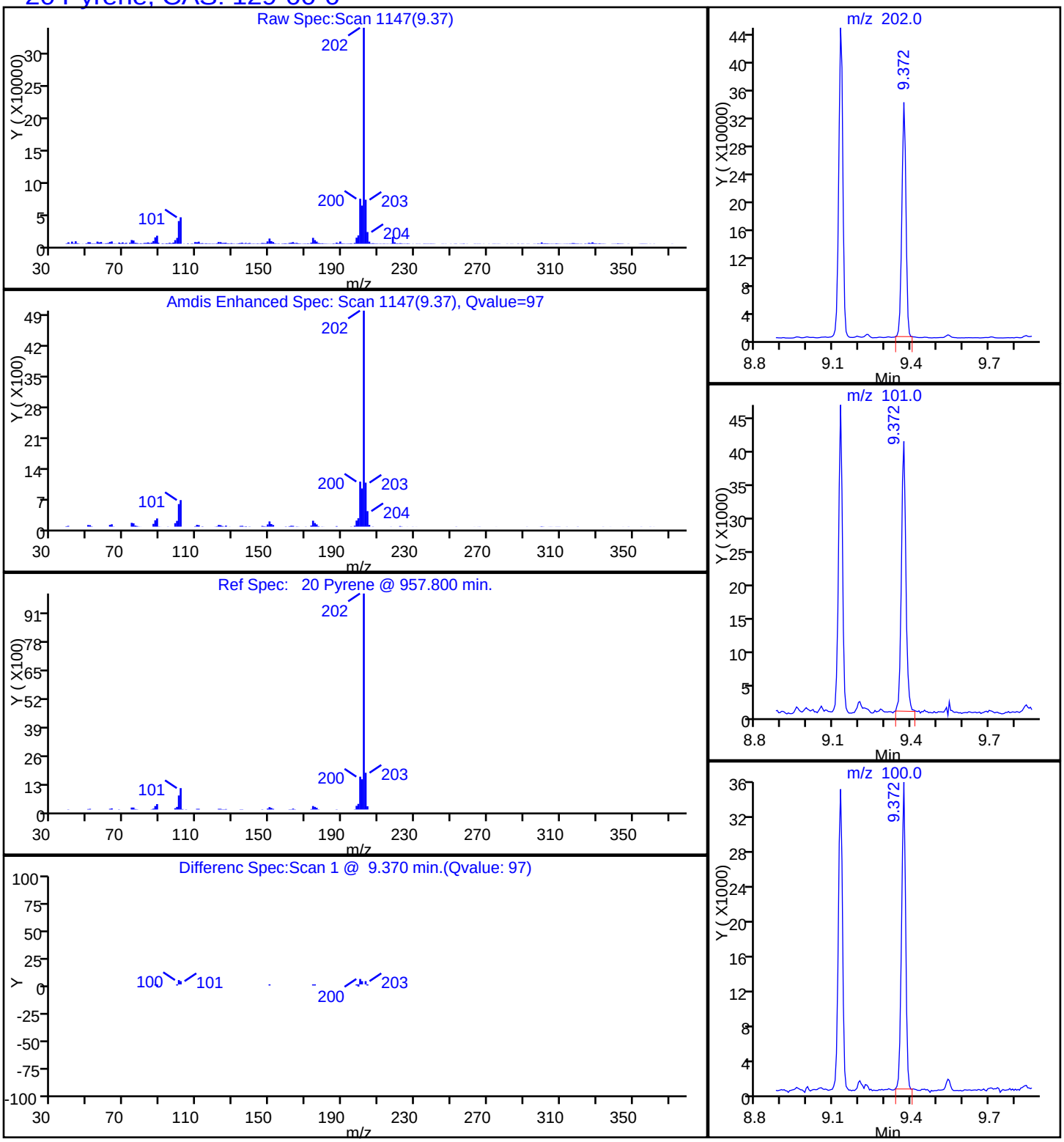


Report Date: 19-Nov-2014 08:49:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1724.D				
Injection Date:	18-Nov-2014 19:36:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-7-A	Lab Sample ID:	680-107159-7		
Client ID:	FM0281D-CS12"				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

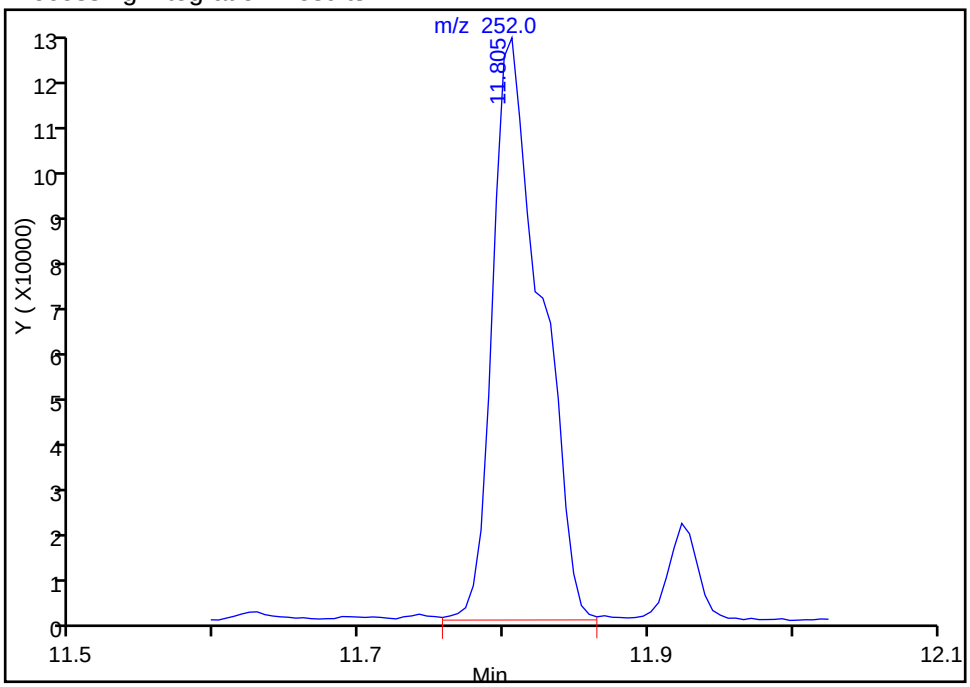
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1724.D				
Injection Date:	18-Nov-2014 19:36:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-7-A	Lab Sample ID:	680-107159-7		
Client ID:	FM0281D-CS12"				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

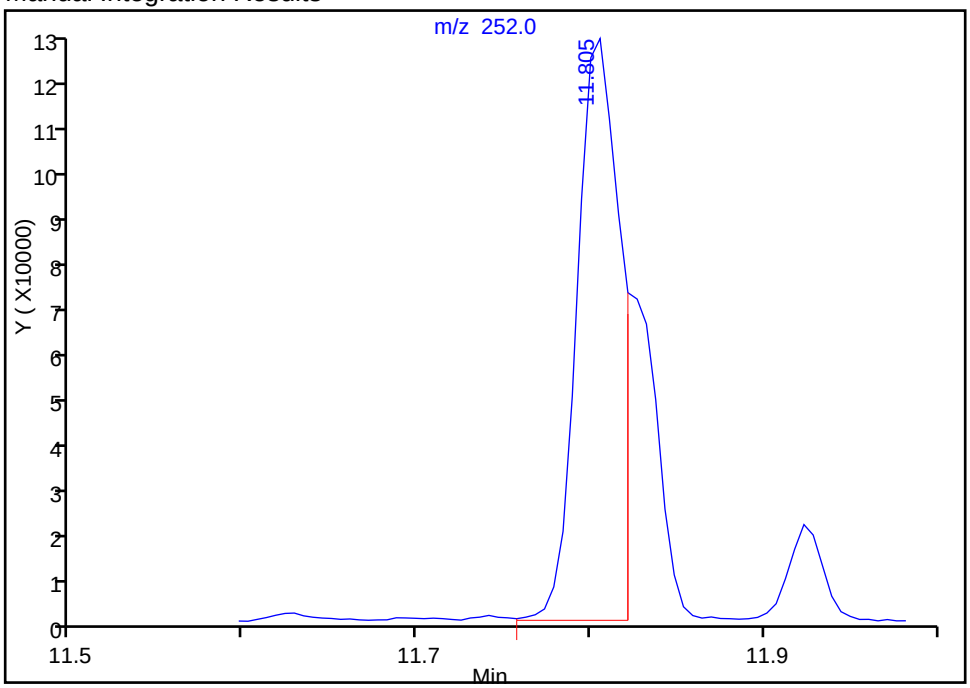
Processing Integration Results

RT: 11.81
Response: 277278
Amount: 1.723253



Manual Integration Results

RT: 11.81
Response: 209034
Amount: 1.299124



Reviewer: webbk, 19-Nov-2014 08:00:36
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

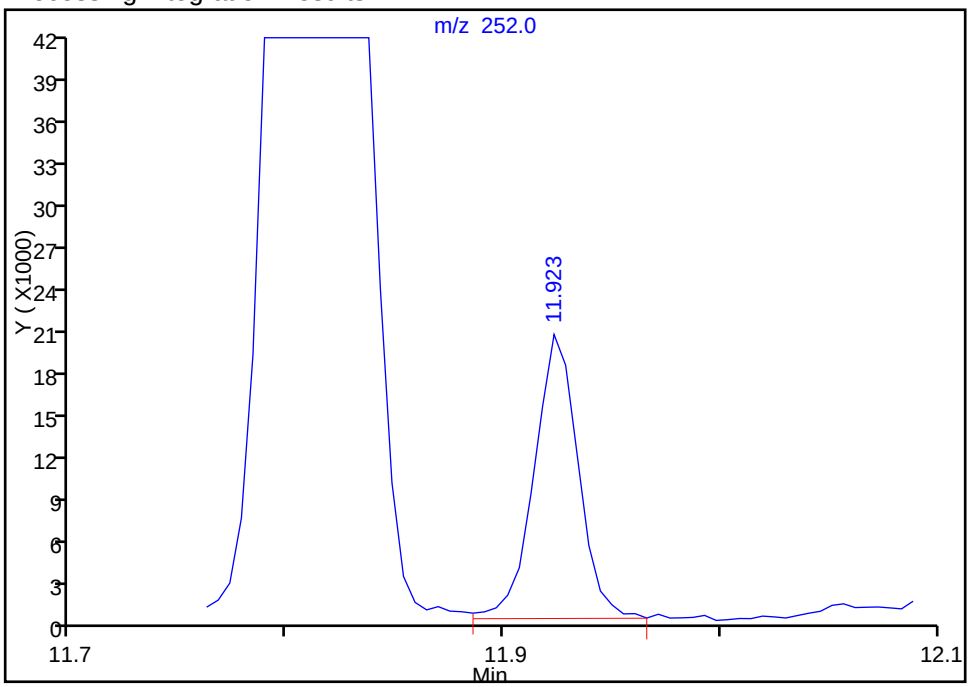
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1724.D				
Injection Date:	18-Nov-2014 19:36:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-7-A	Lab Sample ID:	680-107159-7		
Client ID:	FM0281D-CS12"				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

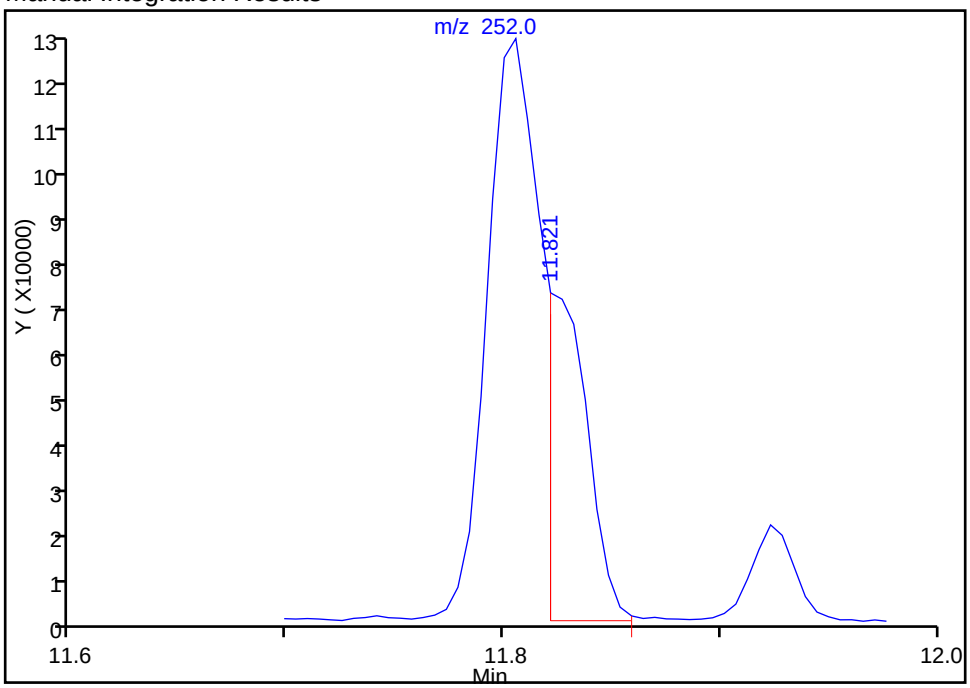
Processing Integration Results

RT: 11.92
Response: 28150
Amount: 0.162852



Manual Integration Results

RT: 11.82
Response: 88425
Amount: 0.514365



Reviewer: webbk, 19-Nov-2014 08:00:36
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281D-CS18" | Lab Sample ID: 680-107159-8

Matrix: Solid | Lab File ID: 1YK1725.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 09:50

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.07(g) | Date Analyzed: 11/18/2014 19:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 13.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	77	U	77	38
208-96-8	Acenaphthylene	77	U	77	38
120-12-7	Anthracene	77	U	77	38
56-55-3	Benzo[a]anthracene	65	J	77	38
50-32-8	Benzo[a]pyrene	68	J	77	14
205-99-2	Benzo[b]fluoranthene	78		77	38
191-24-2	Benzo[g,h,i]perylene	76	J	77	38
207-08-9	Benzo[k]fluoranthene	43	J	77	23
218-01-9	Chrysene	75	J	77	38
53-70-3	Dibenz(a,h)anthracene	77	U	77	38
206-44-0	Fluoranthene	120		77	38
86-73-7	Fluorene	77	U	77	38
193-39-5	Indeno[1,2,3-cd]pyrene	54	J	77	38
90-12-0	1-Methylnaphthalene	77	U	77	36
91-57-6	2-Methylnaphthalene	77	U	77	38
91-20-3	Naphthalene	77	U	77	38
85-01-8	Phenanthrene	73	J	77	28
129-00-0	Pyrene	110		77	38

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1725.D
Lims ID: 680-107159-B-8-A Lab Sample ID: 680-107159-8
Client ID: FM0281D-CS18"
Sample Type: Client
Inject. Date: 18-Nov-2014 19:58:30 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Sample Info: 107159-B-8-A 1:10
Misc. Info.: 680-0014871-025
Operator ID: Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 19-Nov-2014 08:10:37 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: webbk Date: 19-Nov-2014 08:01:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.264	4.264	0.000	99	494144	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	92	287118	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	493178	2.00	
* 4 Chrysene-d12	240	10.661	10.655	0.006	99	358633	2.00	
* 5 Perylene-d12	264	12.276	12.265	0.011	99	234607	2.00	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	78	7910	0.0470	7
10 1-Methylnaphthalene	142	5.087	5.087	0.000	35	3771	0.0246	7
17 Phenanthrene	178	7.794	7.794	0.000	96	54463	0.1893	
18 Anthracene	178	7.853	7.853	0.000	98	11877	0.0439	
19 Fluoranthene	202	9.126	9.126	0.000	99	87096	0.3083	
20 Pyrene	202	9.372	9.372	0.000	97	65845	0.2949	
21 Benzo[a]anthracene	228	10.650	10.645	0.005	97	33789	0.1689	
22 Chrysene	228	10.682	10.682	0.000	100	34740	0.1954	
23 Benzo[b]fluoranthene	252	11.805	11.795	0.010	98	29536	0.2042	M
24 Benzo[k]fluoranthene	252	11.816	11.827	-0.011	98	17213	0.1107	M
25 Benzo[a]pyrene	252	12.201	12.196	0.005	96	20251	0.1763	
26 Indeno[1,2,3-cd]pyrene	276	13.897	13.870	0.027	99	21784	0.1403	
27 Dibenz(a,h)anthracene	278	13.918	13.897	0.021	94	8415	0.0866	
28 Benzo[g,h,i]perylene	276	14.383	14.357	0.026	98	21683	0.1991	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

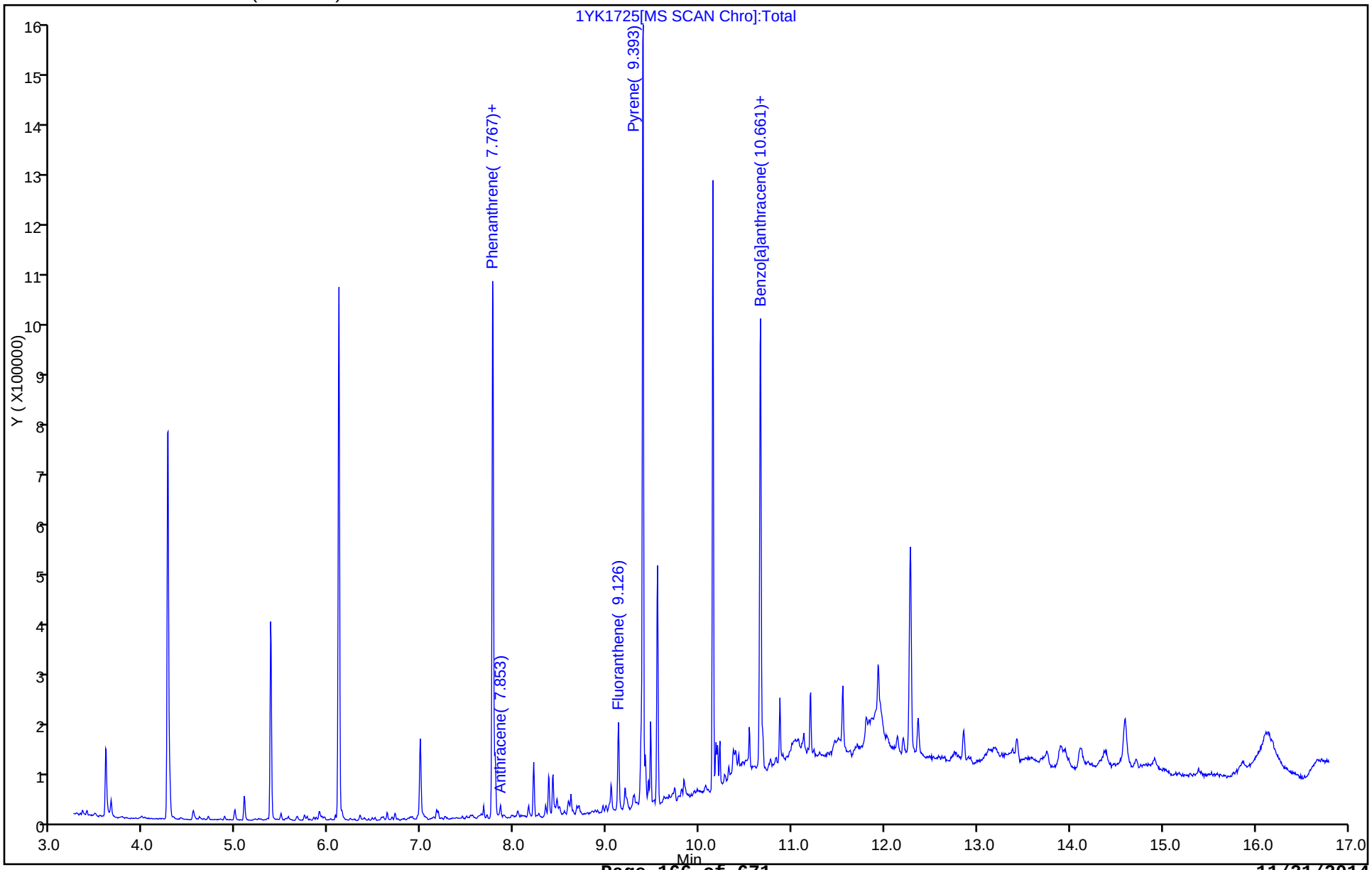
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Nov-2014 08:49:44 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1725.D				
Injection Date:	18-Nov-2014 19:58:30	Instrument ID:	CMSY	Operator ID:	
Lims ID:	680-107159-B-8-A	Lab Sample ID:	680-107159-8	Worklist Smp#:	25
Client ID:	FM0281D-CS18"				
Injection Vol:	2.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	25
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)

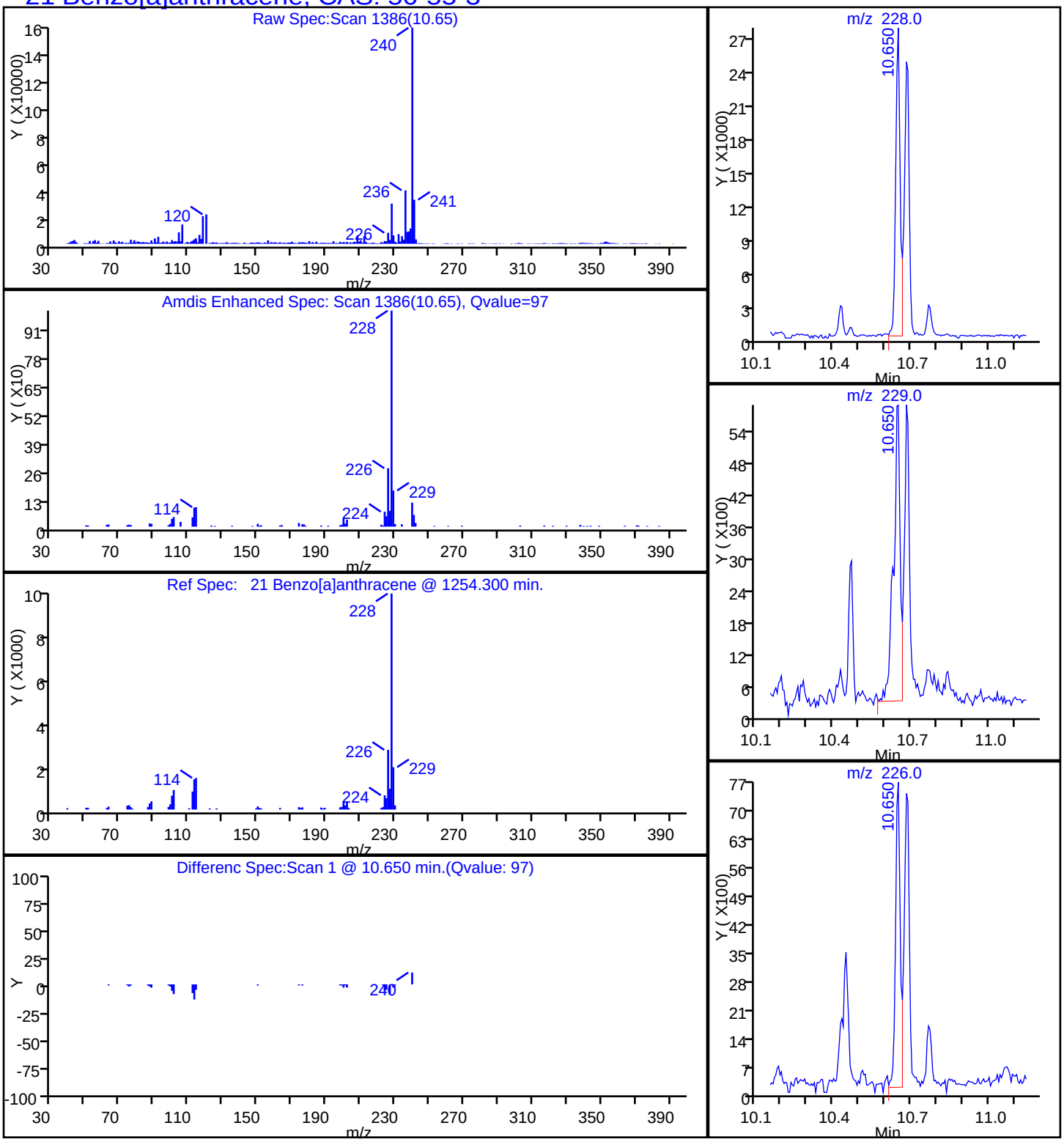


Report Date: 19-Nov-2014 08:49:44 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1725.D				
Injection Date:	18-Nov-2014 19:58:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-8-A	Lab Sample ID:	680-107159-8		
Client ID:	FM0281D-CS18"				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

21 Benzo[a]anthracene, CAS: 56-55-3

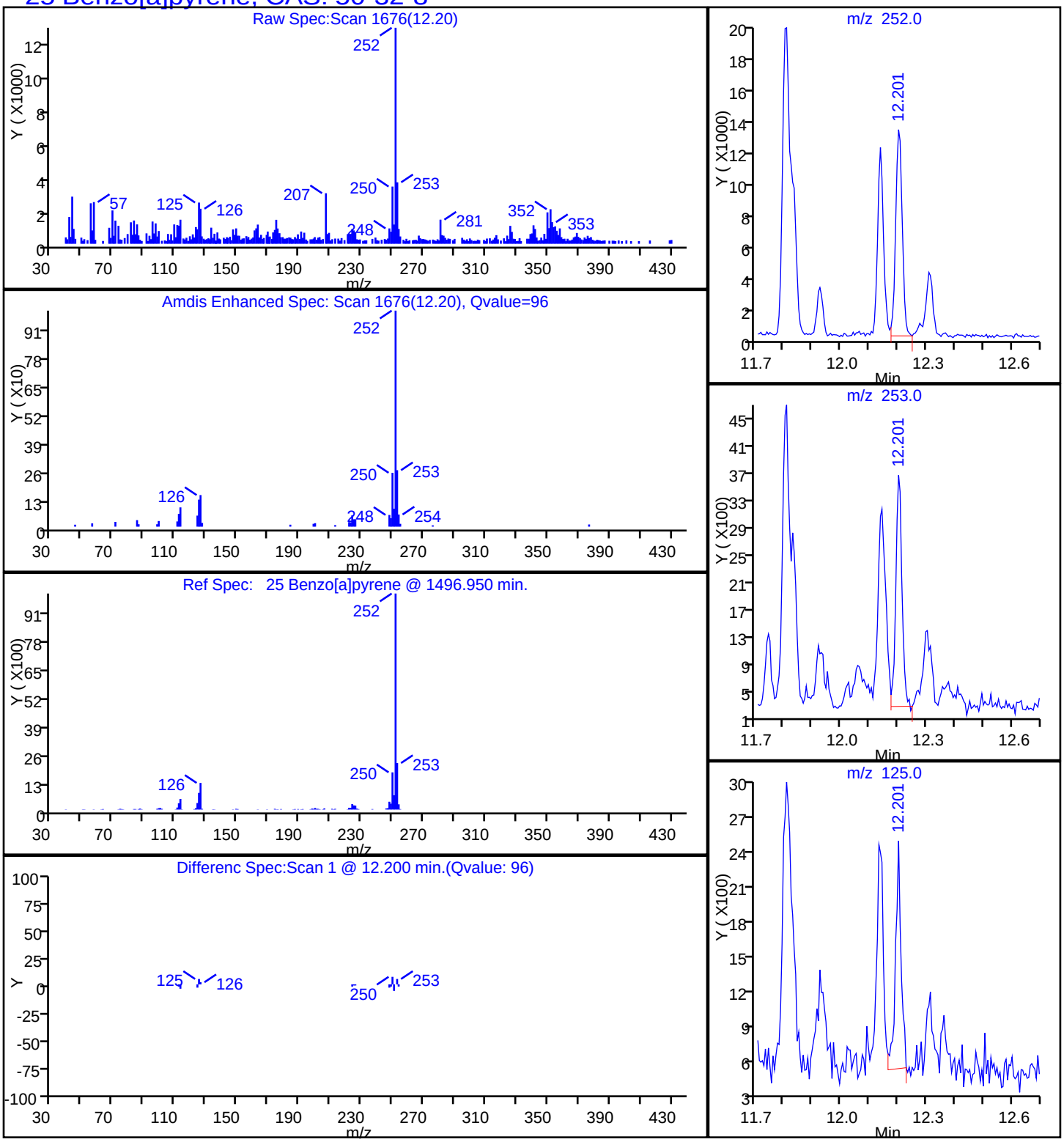


Report Date: 19-Nov-2014 08:49:44 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1725.D				
Injection Date:	18-Nov-2014 19:58:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-8-A	Lab Sample ID:	680-107159-8		
Client ID:	FM0281D-CS18"				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

25 Benzo[a]pyrene, CAS: 50-32-8

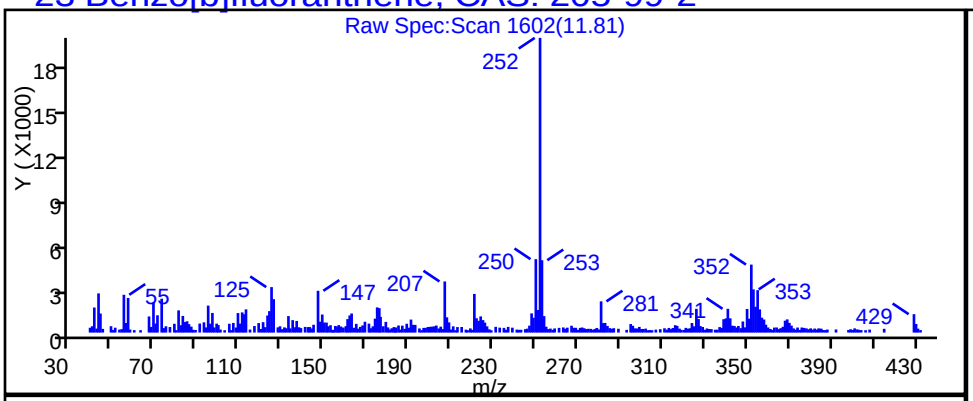


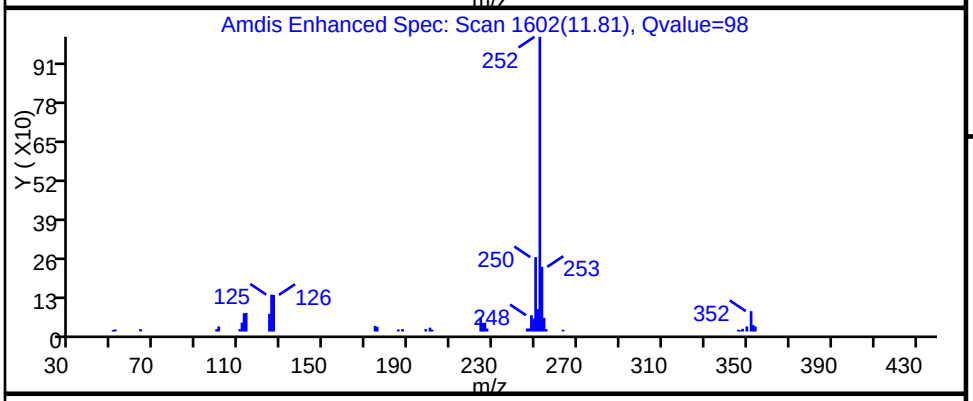
Report Date: 19-Nov-2014 08:49:44 Chrom Revision: 2.2 06-Nov-2014 14:50:32

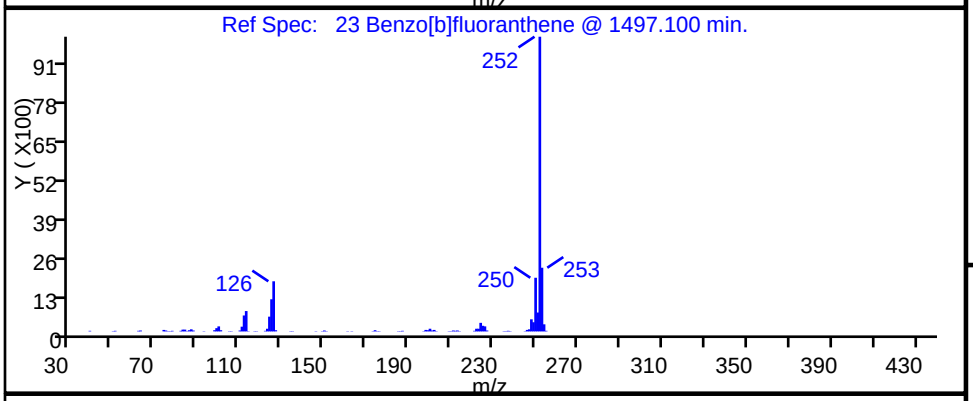
TestAmerica Savannah

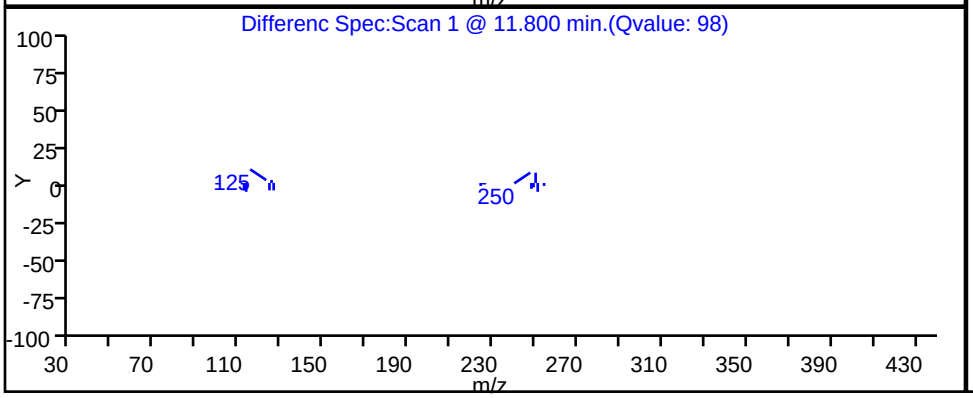
Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1725.D				
Injection Date:	18-Nov-2014 19:58:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-8-A	Lab Sample ID:	680-107159-8		
Client ID:	FM0281D-CS18"				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

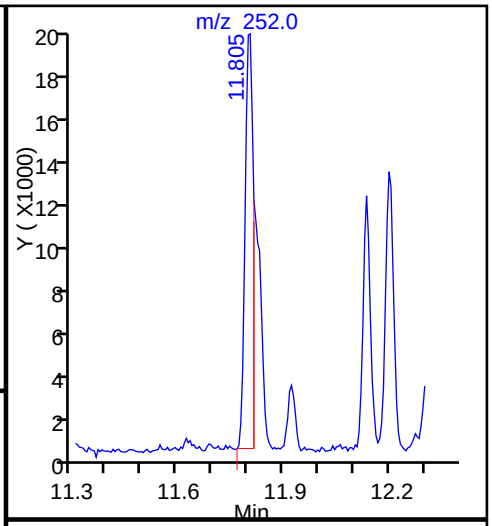
23 Benzo[b]fluoranthene, CAS: 205-99-2

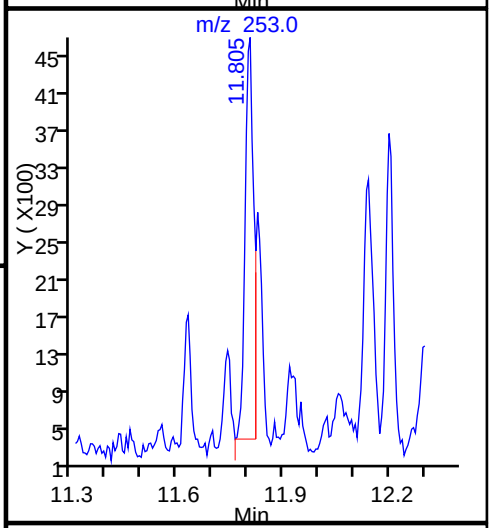


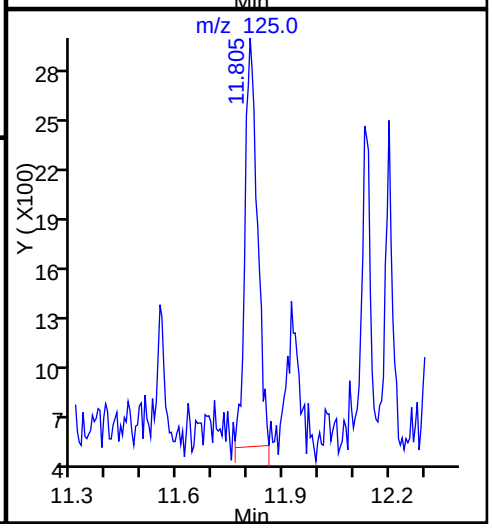










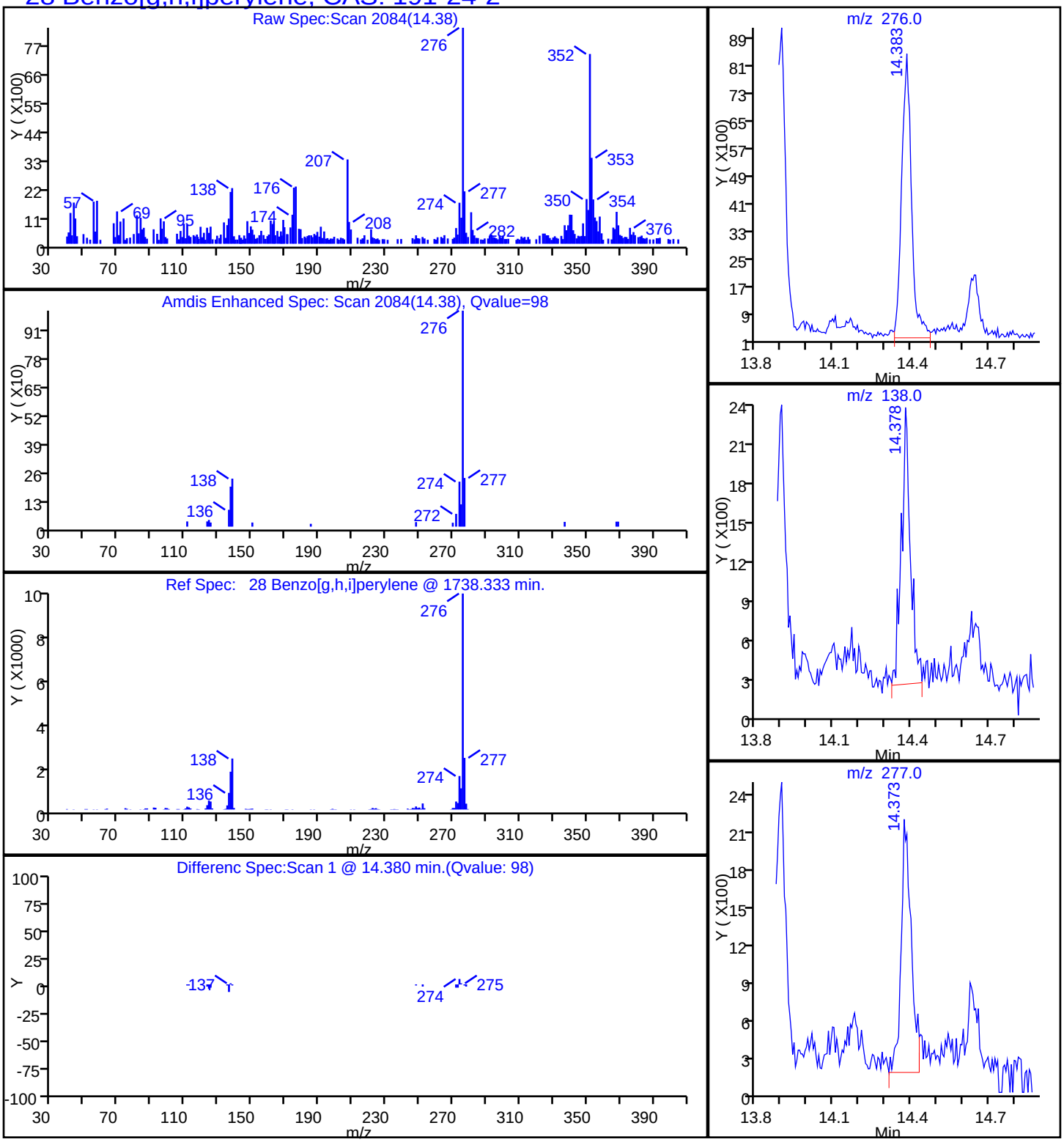


Report Date: 19-Nov-2014 08:49:44 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1725.D				
Injection Date:	18-Nov-2014 19:58:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-8-A	Lab Sample ID:	680-107159-8		
Client ID:	FM0281D-CS18"				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

28 Benzo[g,h,i]perylene, CAS: 191-24-2

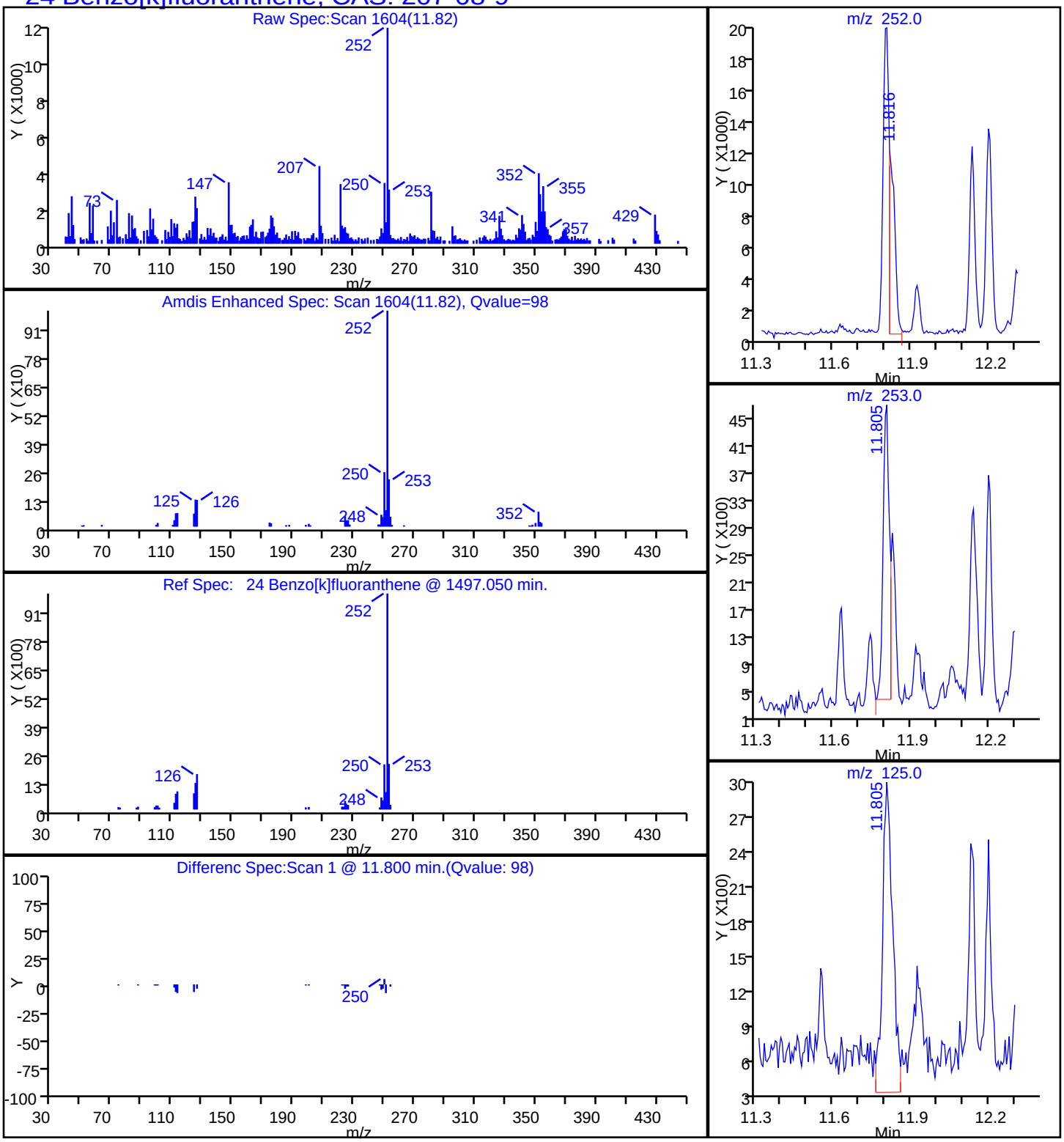


Report Date: 19-Nov-2014 08:49:44 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1725.D				
Injection Date:	18-Nov-2014 19:58:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-8-A	Lab Sample ID:	680-107159-8		
Client ID:	FM0281D-CS18"				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

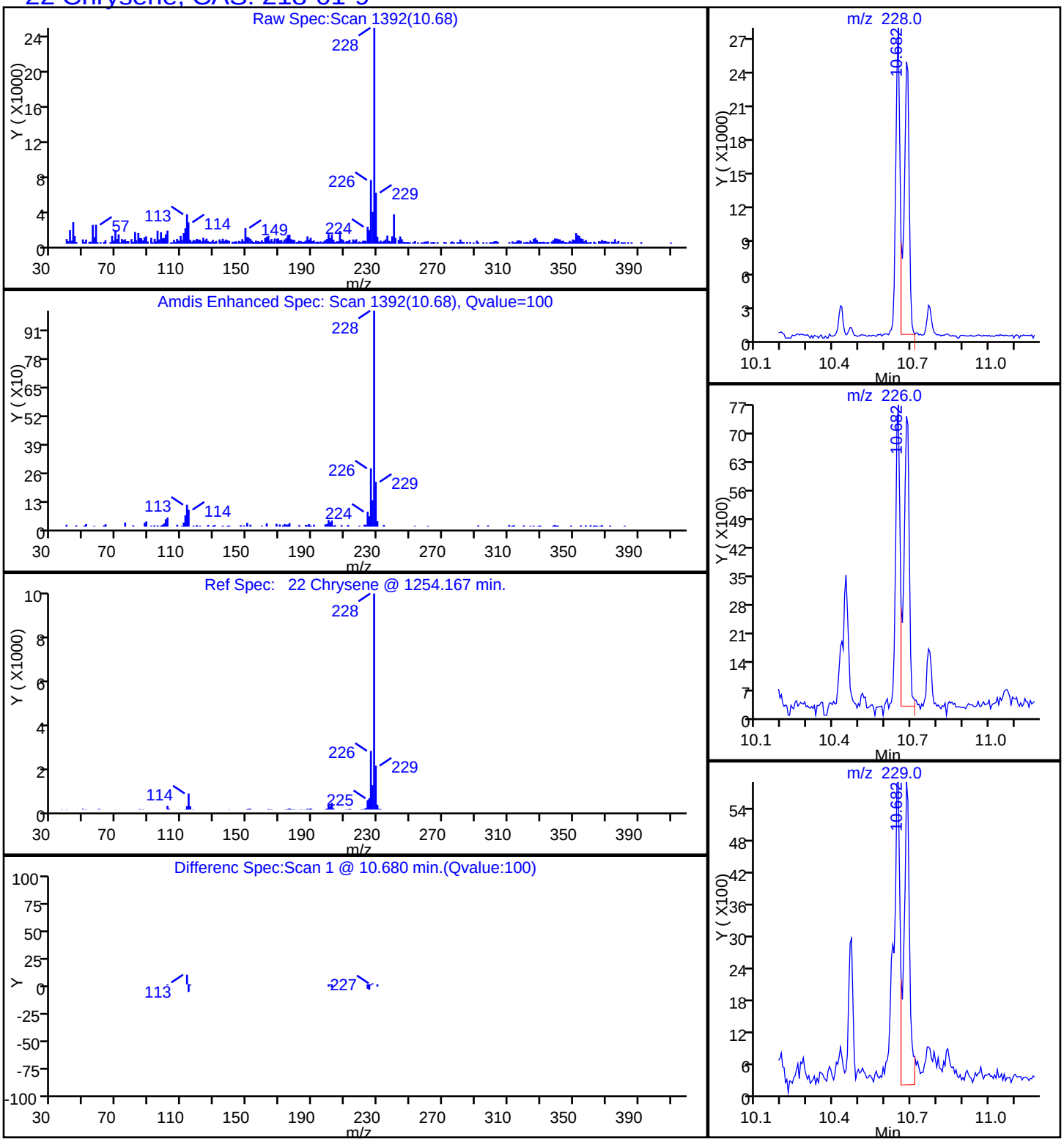


Report Date: 19-Nov-2014 08:49:44 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1725.D				
Injection Date:	18-Nov-2014 19:58:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-8-A	Lab Sample ID:	680-107159-8		
Client ID:	FM0281D-CS18"				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Chrysene, CAS: 218-01-9

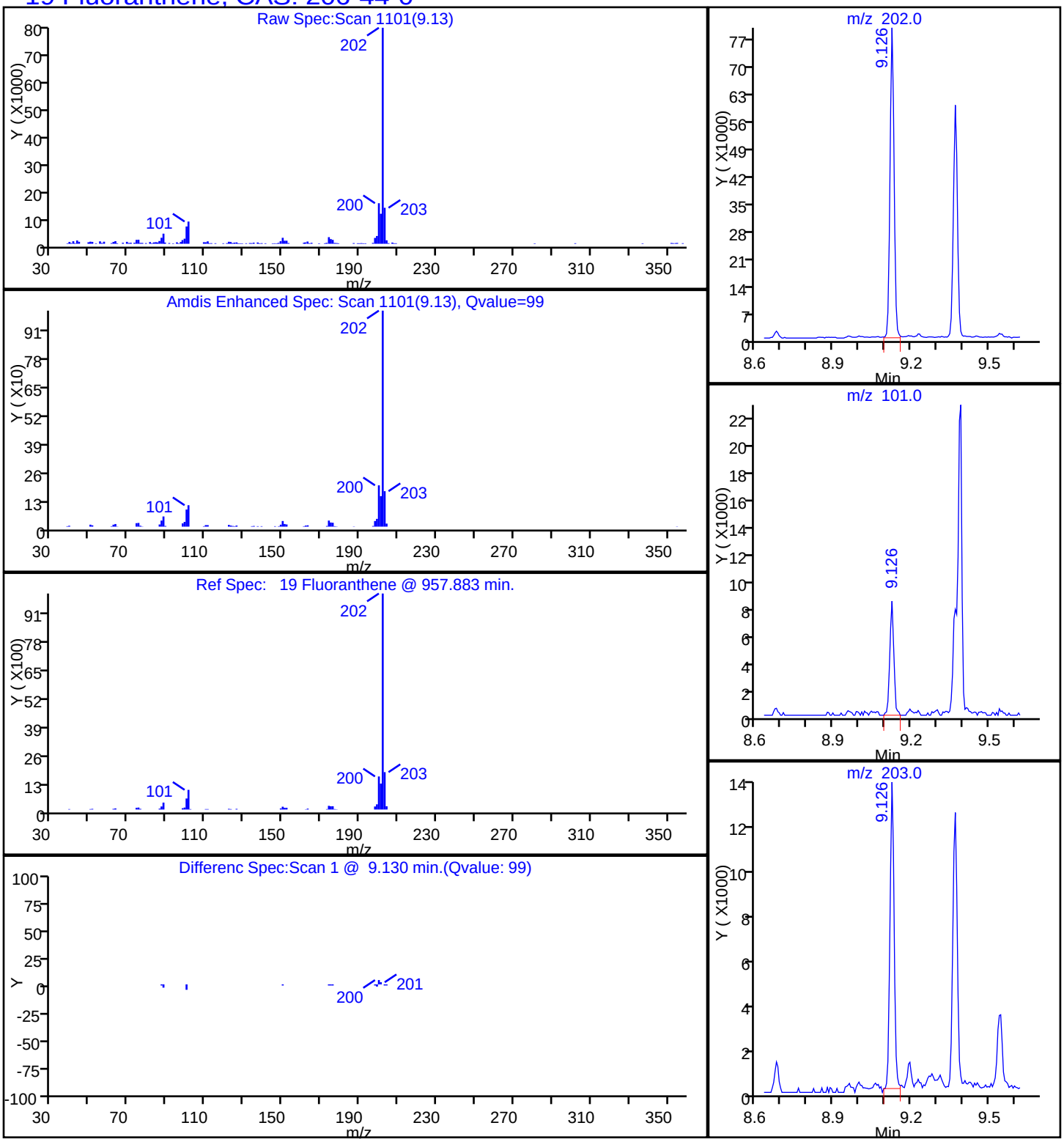


Report Date: 19-Nov-2014 08:49:44 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1725.D				
Injection Date:	18-Nov-2014 19:58:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-8-A	Lab Sample ID:	680-107159-8		
Client ID:	FM0281D-CS18"				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 Fluoranthene, CAS: 206-44-0

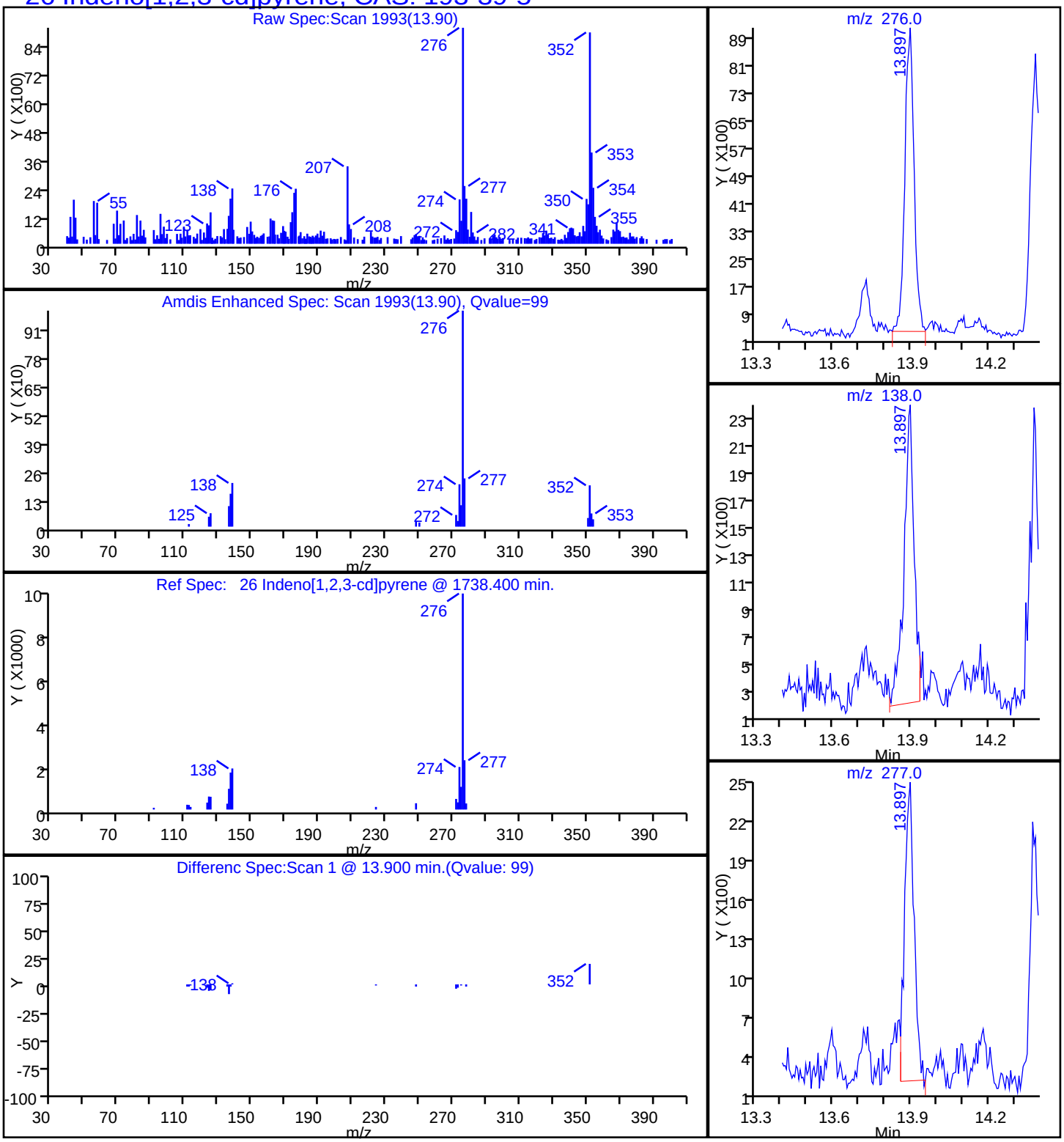


Report Date: 19-Nov-2014 08:49:44 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1725.D				
Injection Date:	18-Nov-2014 19:58:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-8-A	Lab Sample ID:	680-107159-8		
Client ID:	FM0281D-CS18"				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

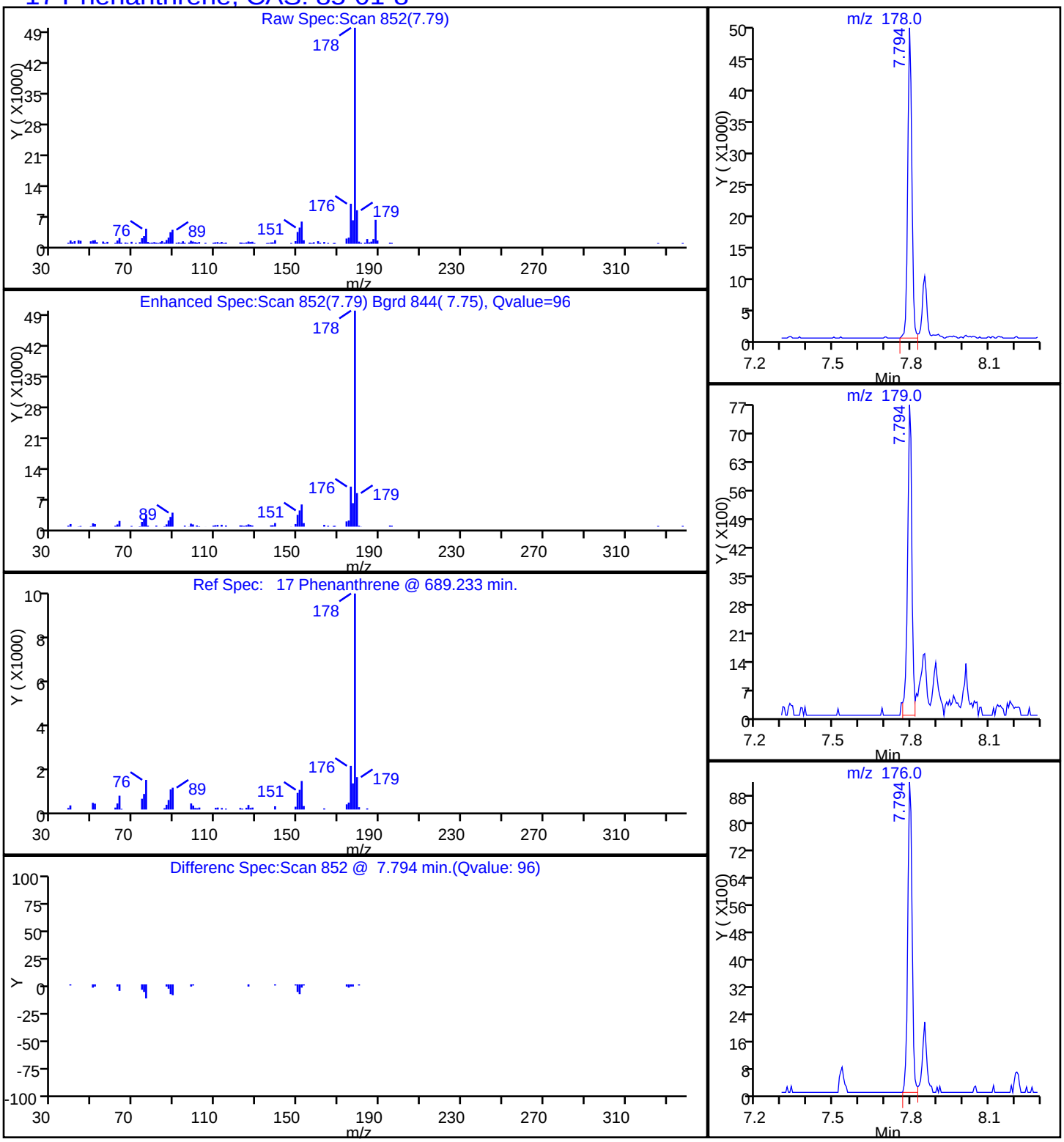


Report Date: 19-Nov-2014 08:49:44 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1725.D				
Injection Date:	18-Nov-2014 19:58:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-8-A	Lab Sample ID:	680-107159-8		
Client ID:	FM0281D-CS18"				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Phenanthrene, CAS: 85-01-8

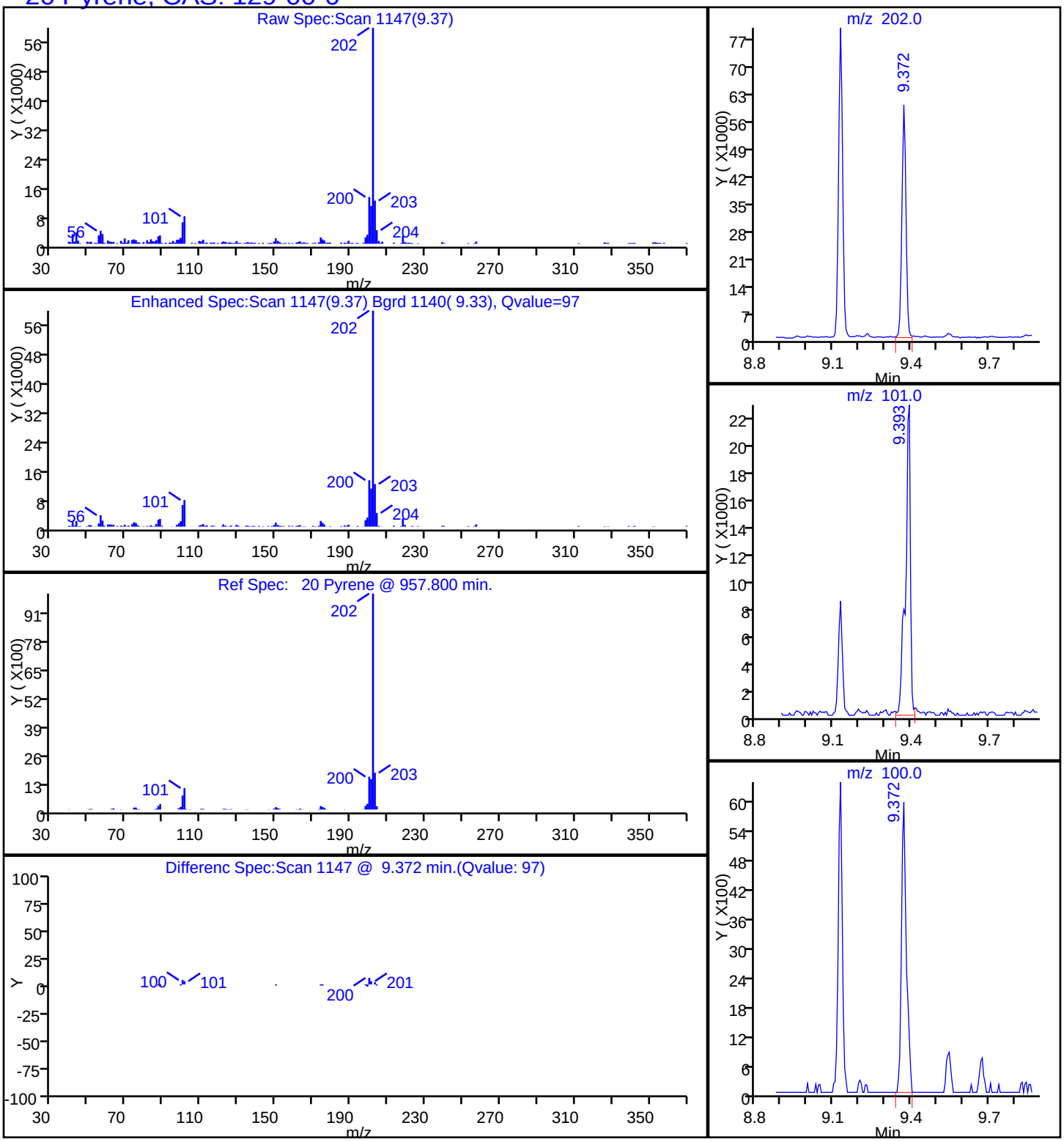


Report Date: 19-Nov-2014 08:49:44 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1725.D				
Injection Date:	18-Nov-2014 19:58:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-8-A	Lab Sample ID:	680-107159-8		
Client ID:	FM0281D-CS18"				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

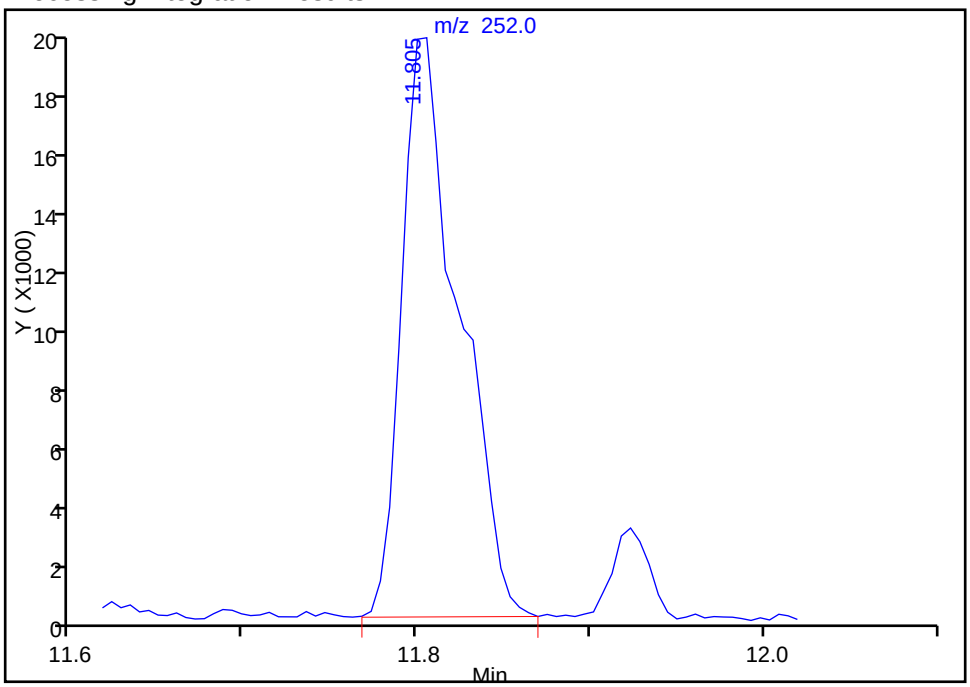
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1725.D				
Injection Date:	18-Nov-2014 19:58:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-8-A	Lab Sample ID:	680-107159-8		
Client ID:	FM0281D-CS18"				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

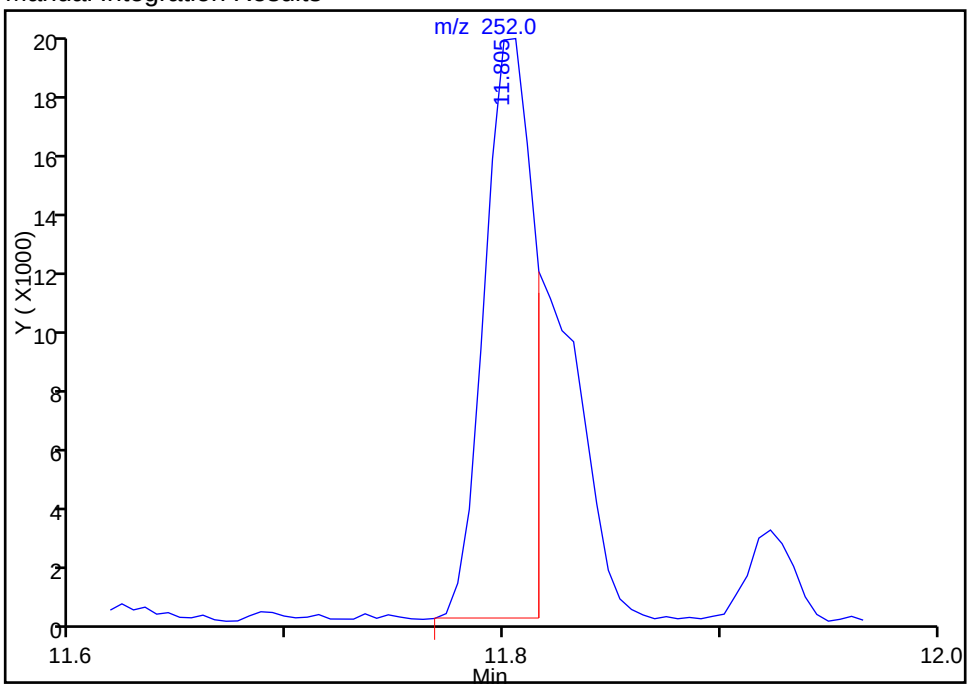
Processing Integration Results

RT: 11.81
Response: 42907
Amount: 0.296670



Manual Integration Results

RT: 11.81
Response: 29536
Amount: 0.204219



Reviewer: webbk, 19-Nov-2014 08:01:52
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

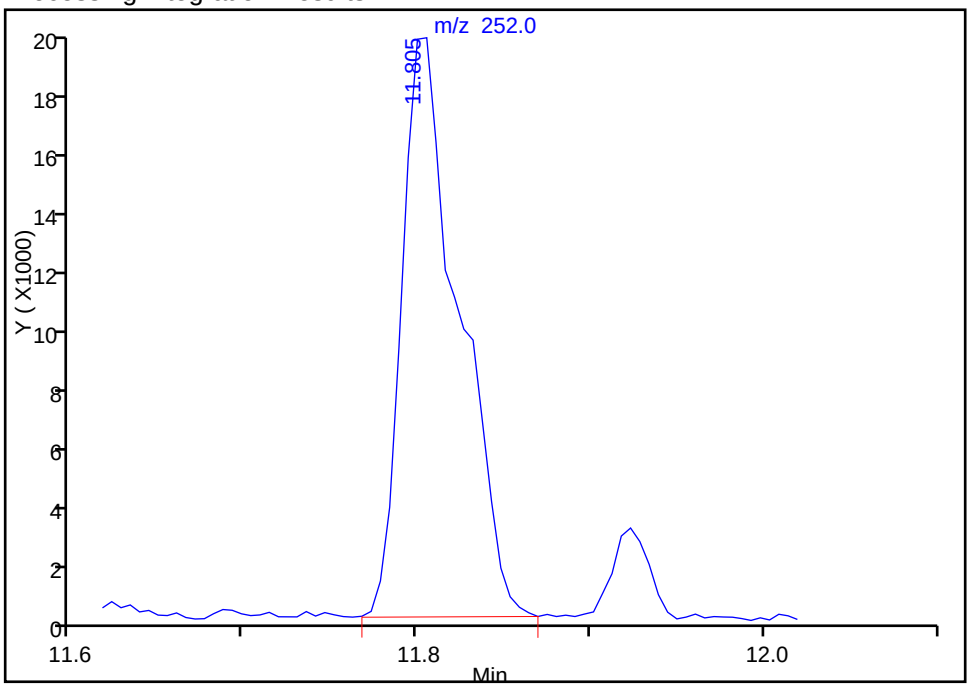
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1725.D				
Injection Date:	18-Nov-2014 19:58:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-8-A	Lab Sample ID:	680-107159-8		
Client ID:	FM0281D-CS18"				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

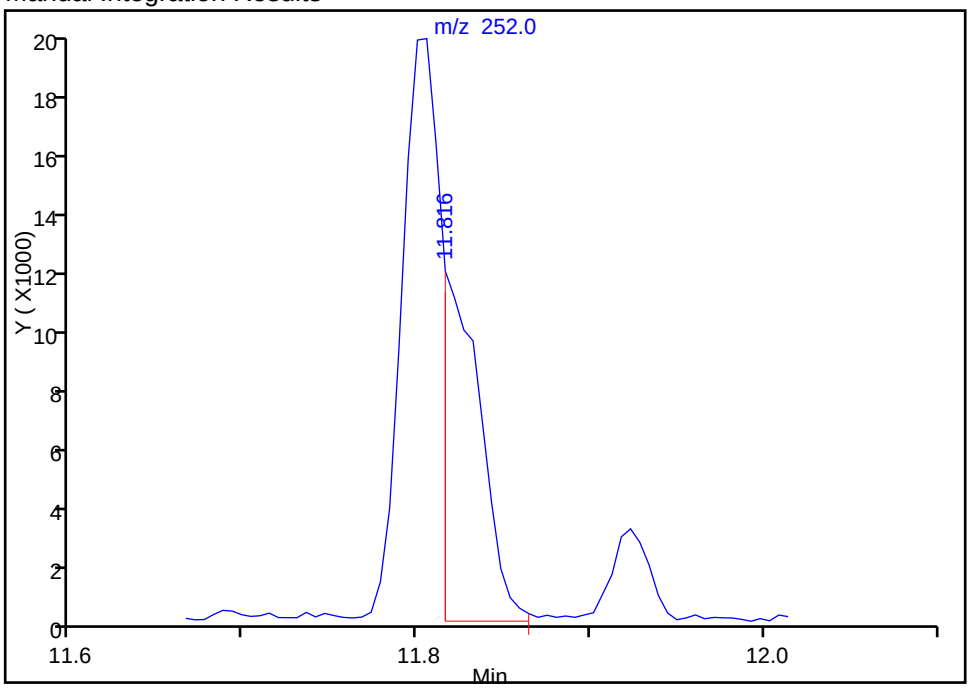
Processing Integration Results

RT: 11.81
Response: 42907
Amount: 0.276646



Manual Integration Results

RT: 11.82
Response: 17213
Amount: 0.110696



Reviewer: webbk, 19-Nov-2014 08:01:52
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281D-CS24" | Lab Sample ID: 680-107159-9

Matrix: Solid | Lab File ID: 1YK1726.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 09:59

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.15(g) | Date Analyzed: 11/18/2014 20:20

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 15.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	20		7.8	3.9
208-96-8	Acenaphthylene	7.8	U	7.8	3.9
120-12-7	Anthracene	43		7.8	3.9
56-55-3	Benzo[a]anthracene	130		7.8	3.9
50-32-8	Benzo[a]pyrene	100		7.8	1.4
205-99-2	Benzo[b]fluoranthene	150		7.8	3.9
191-24-2	Benzo[g,h,i]perylene	54		7.8	3.9
207-08-9	Benzo[k]fluoranthene	50		7.8	2.3
218-01-9	Chrysene	130		7.8	3.9
53-70-3	Dibenz(a,h)anthracene	20		7.8	3.9
206-44-0	Fluoranthene	240		7.8	3.9
86-73-7	Fluorene	23		7.8	3.9
193-39-5	Indeno[1,2,3-cd]pyrene	46		7.8	3.9
90-12-0	1-Methylnaphthalene	6.5	J	7.8	3.6
91-57-6	2-Methylnaphthalene	8.4		7.8	3.9
91-20-3	Naphthalene	14		7.8	3.9
85-01-8	Phenanthrene	200		7.8	2.8
129-00-0	Pyrene	220		7.8	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	107		36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D
Lims ID: 680-107159-B-9-A Lab Sample ID: 680-107159-9
Client ID: FM0281D-CS24"
Sample Type: Client
Inject. Date: 18-Nov-2014 20:20:30 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 107159-B-9-A
Misc. Info.: 680-0014871-026
Operator ID: Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 19-Nov-2014 08:10:37 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: webbk Date: 19-Nov-2014 08:02:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.253	4.264	-0.011	99	490549	2.00	
* 2 Acenaphthene-d10	164	6.104	6.109	-0.005	92	280495	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	484557	2.00	
* 4 Chrysene-d12	240	10.661	10.655	0.006	95	360289	2.00	
* 5 Perylene-d12	264	12.276	12.265	0.011	98	246631	2.00	
$ 6 o-Terphenyl	230	8.211	8.211	0.000	91	241611	2.13	
7 Naphthalene	128	4.275	4.285	-0.010	98	95437	0.3697	
9 2-Methylnaphthalene	142	4.981	4.986	-0.005	85	36162	0.2164	
10 1-Methylnaphthalene	142	5.082	5.087	-0.005	84	25357	0.1664	
12 Acenaphthylene	152	5.949	5.949	0.000	66	11663	0.0448	7
14 Acenaphthene	153	6.141	6.141	0.000	91	91570	0.5217	
16 Fluorene	166	6.714	6.713	0.001	85	109699	0.5848	
17 Phenanthrene	178	7.799	7.794	0.005	97	1363972	5.00	
18 Anthracene	178	7.853	7.853	0.000	98	291955	1.10	
19 Fluoranthene	202	9.131	9.126	0.005	98	1678017	6.05	
20 Pyrene	202	9.377	9.372	0.005	98	1232225	5.61	
21 Benzo[a]anthracene	228	10.650	10.645	0.005	98	644755	3.21	
22 Chrysene	228	10.688	10.682	0.006	94	579775	3.26	
23 Benzo[b]fluoranthene	252	11.805	11.795	0.010	98	594703	3.91	M
24 Benzo[k]fluoranthene	252	11.832	11.827	0.005	94	203685	1.27	M
25 Benzo[a]pyrene	252	12.207	12.196	0.011	97	319268	2.64	
26 Indeno[1,2,3-cd]pyrene	276	13.897	13.870	0.027	98	184235	1.18	
27 Dibenz(a,h)anthracene	278	13.918	13.897	0.021	68	53519	0.5241	
28 Benzo[g,h,i]perylene	276	14.389	14.357	0.032	91	157413	1.37	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

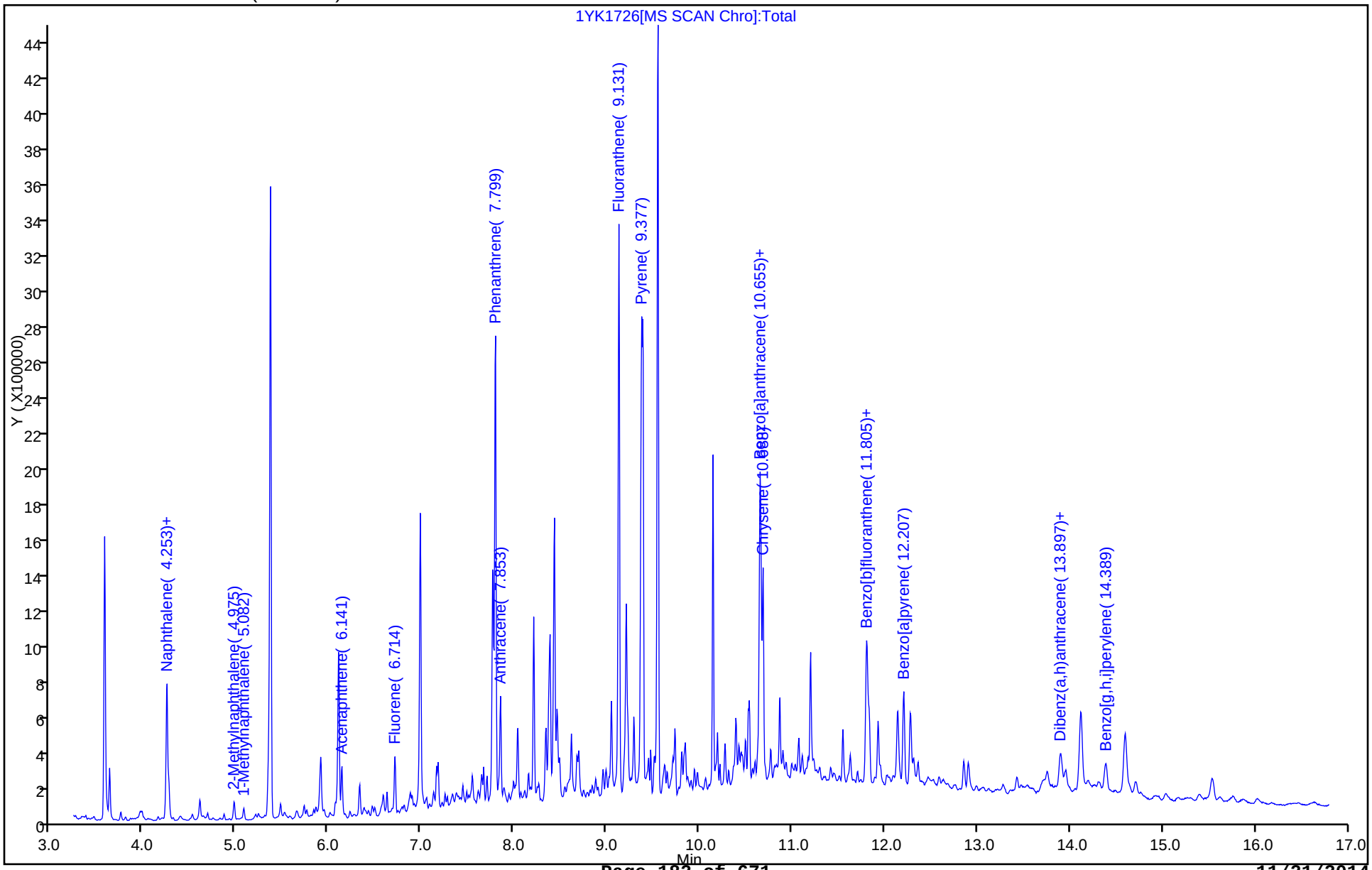
SM-LLISTD_00114	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY	Operator ID:	
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9	Worklist Smp#:	26
Client ID:	FM0281D-CS24"				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)

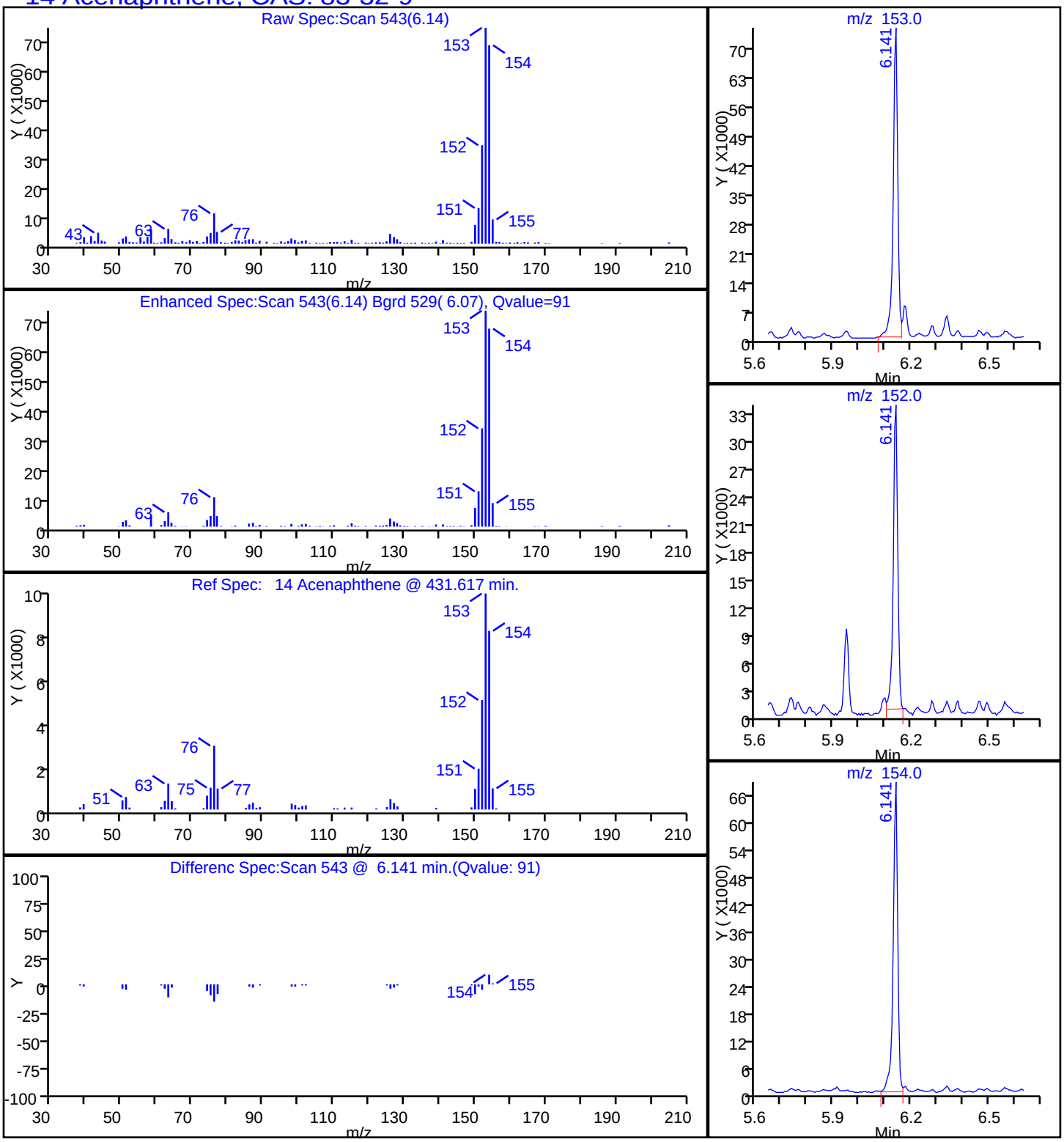


Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9

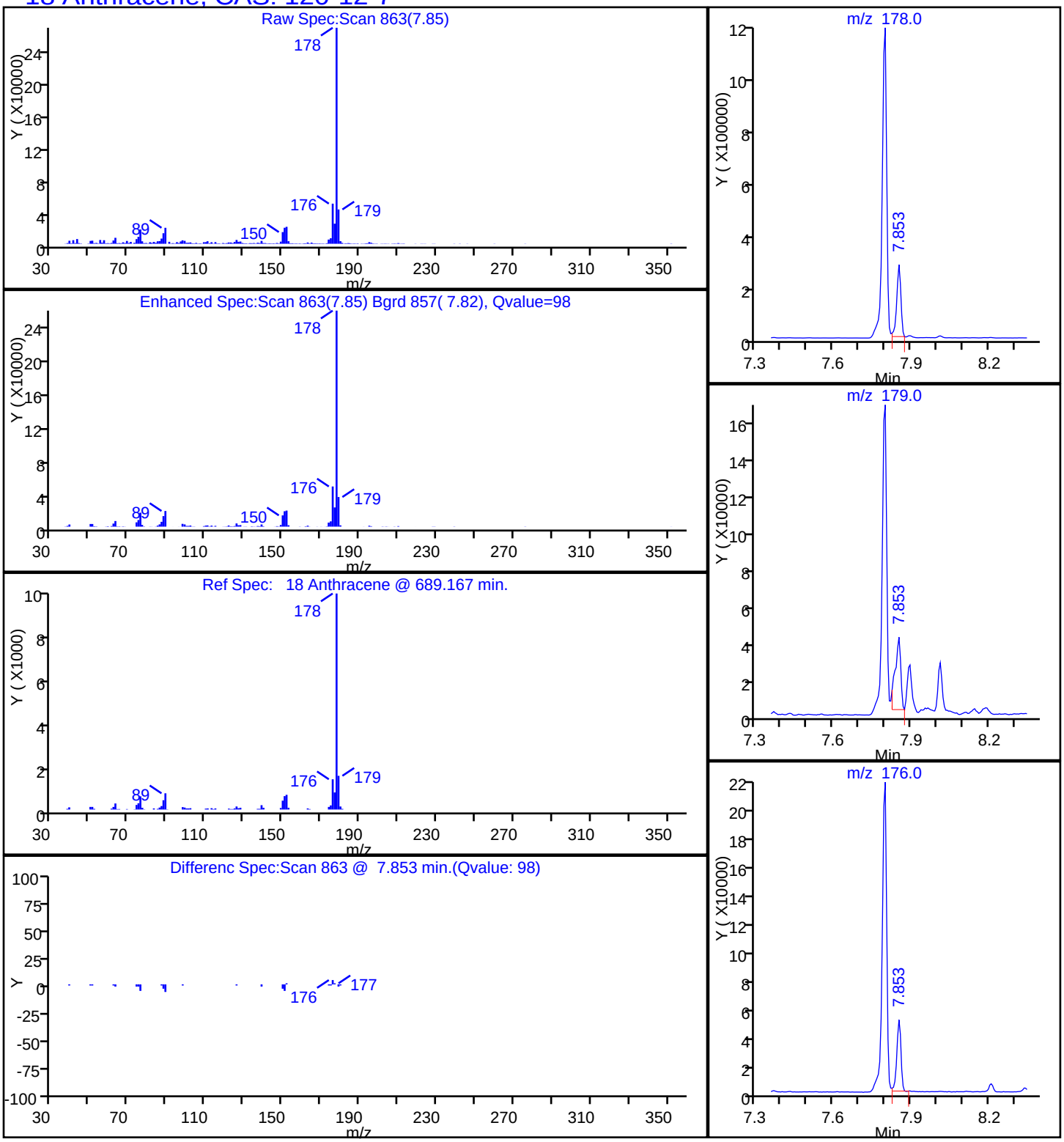


Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

18 Anthracene, CAS: 120-12-7

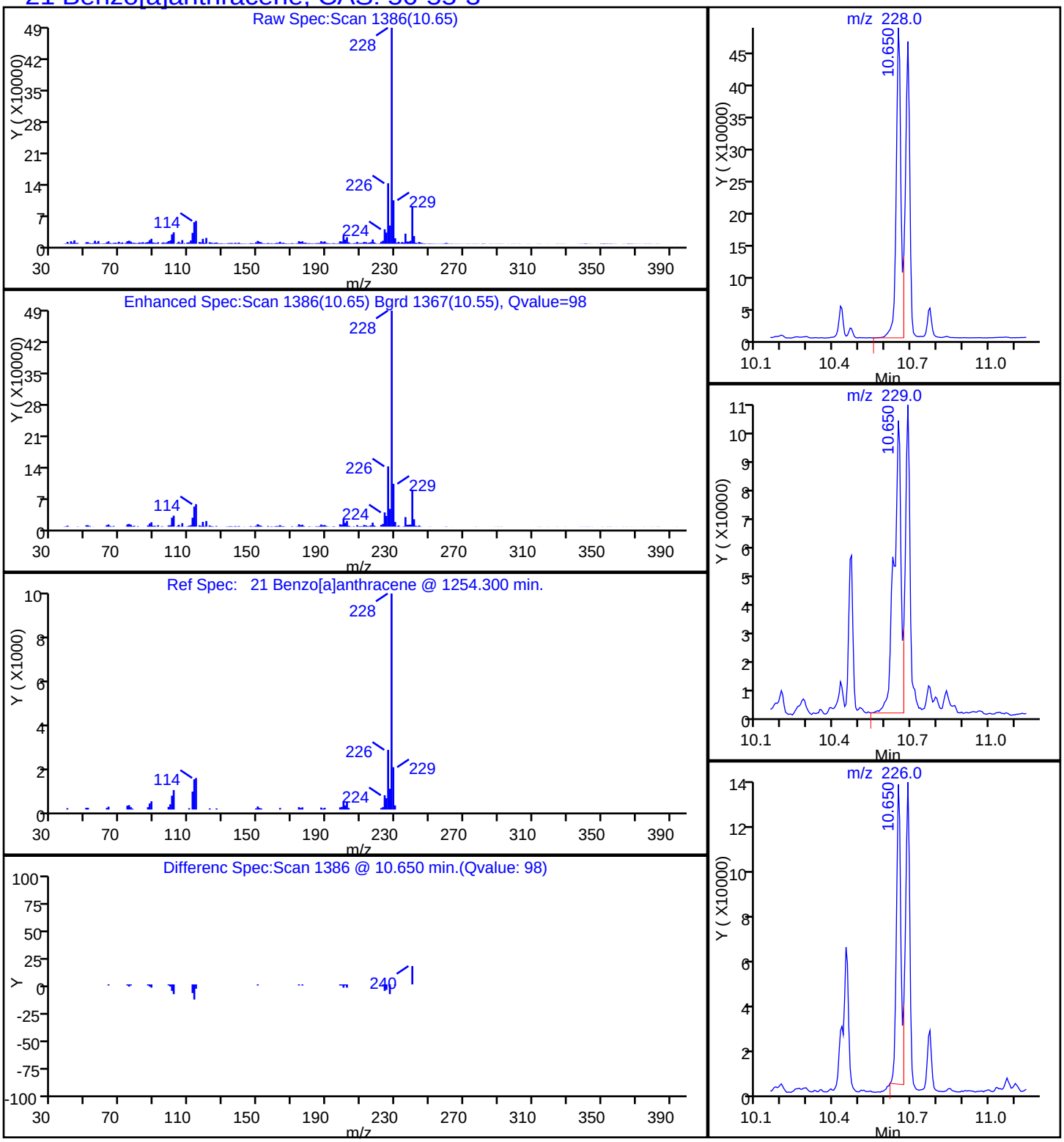


Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

21 Benzo[a]anthracene, CAS: 56-55-3

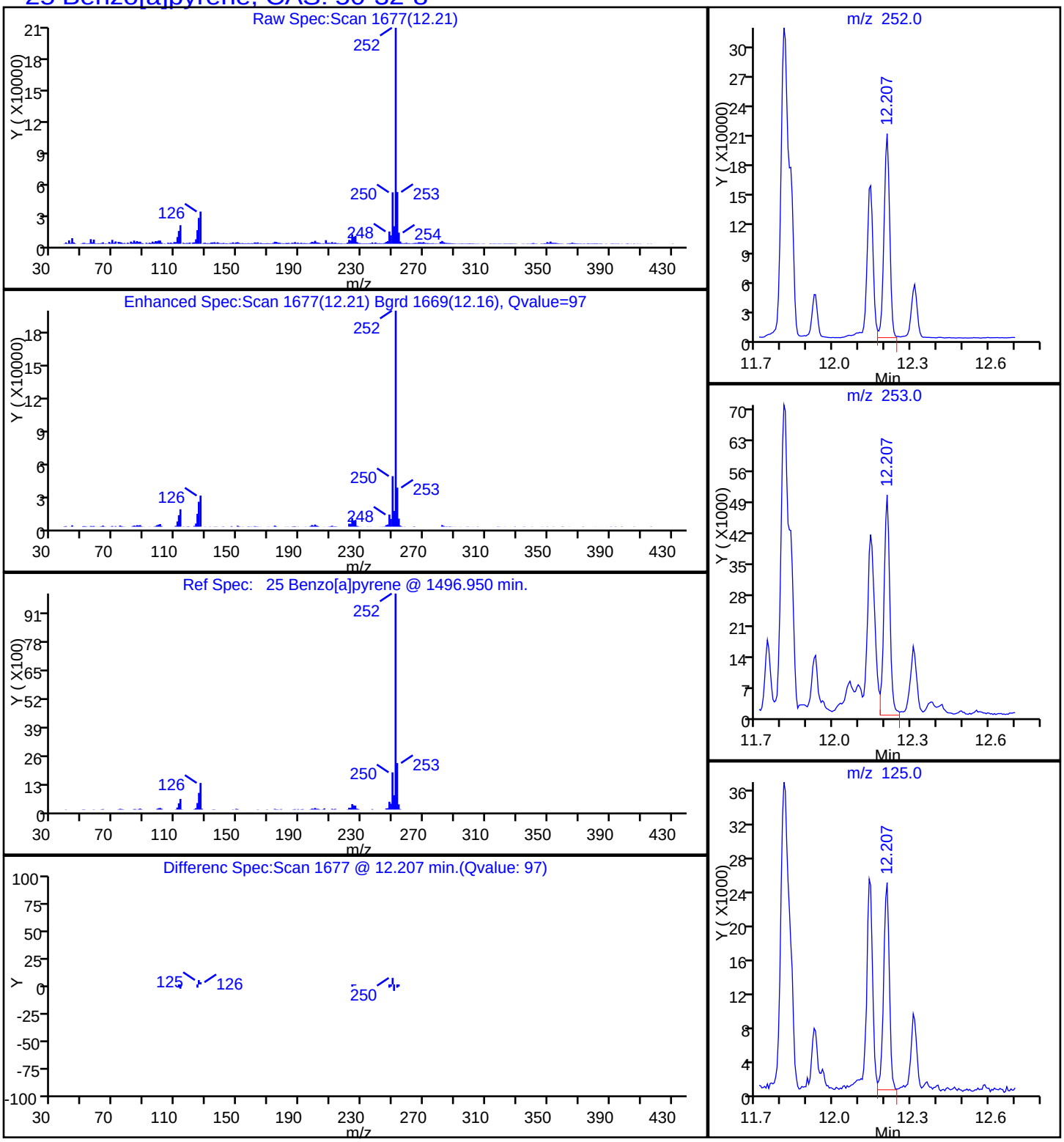


Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

25 Benzo[a]pyrene, CAS: 50-32-8

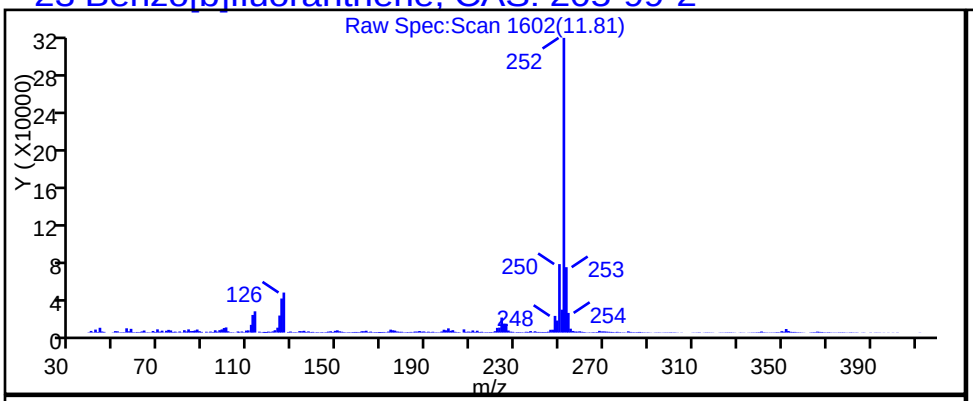


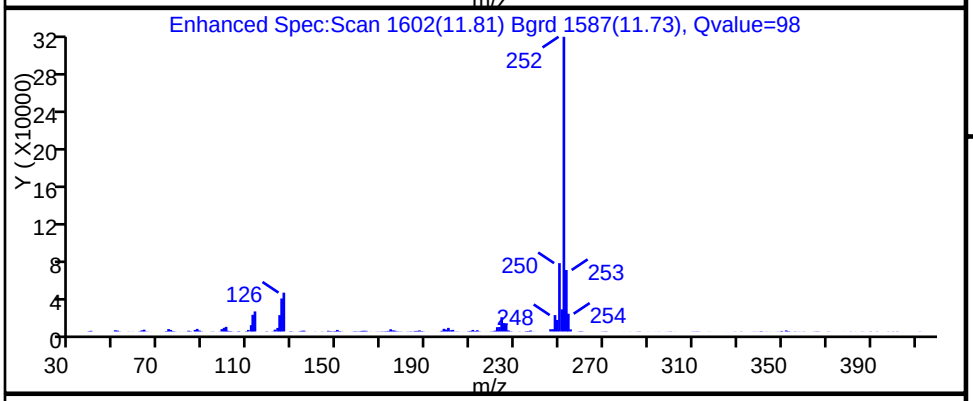
Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

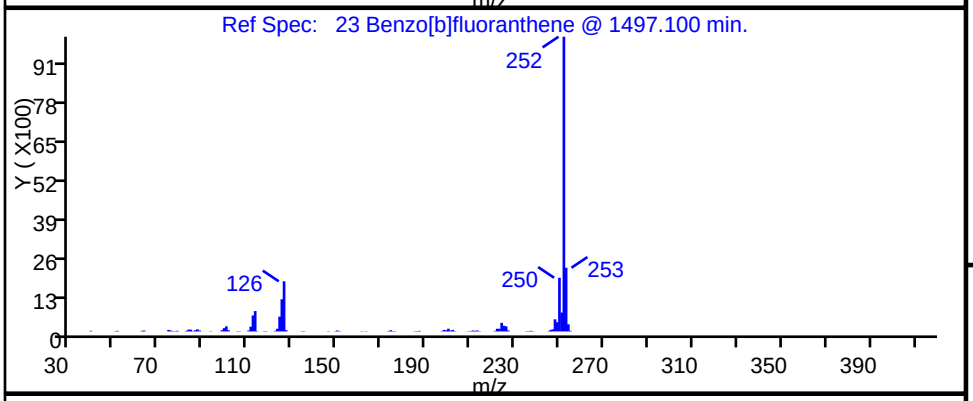
TestAmerica Savannah

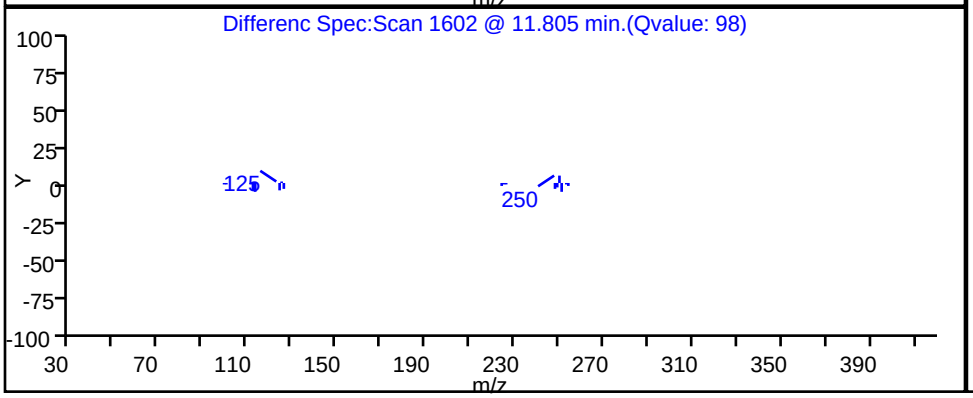
Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

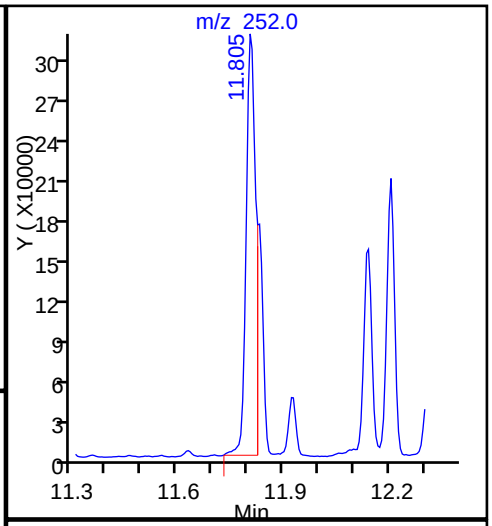
23 Benzo[b]fluoranthene, CAS: 205-99-2

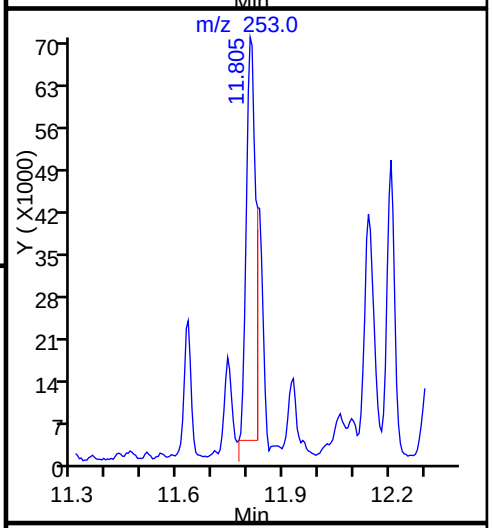


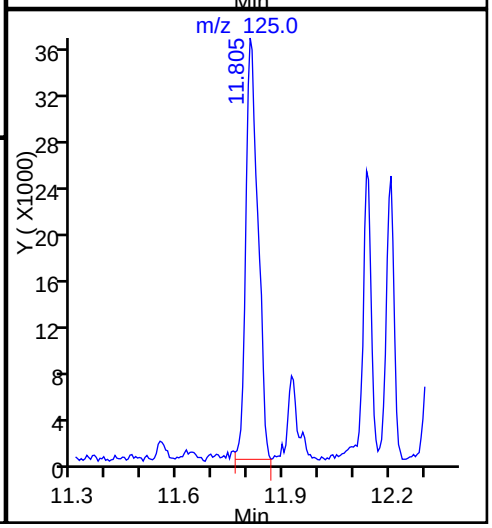










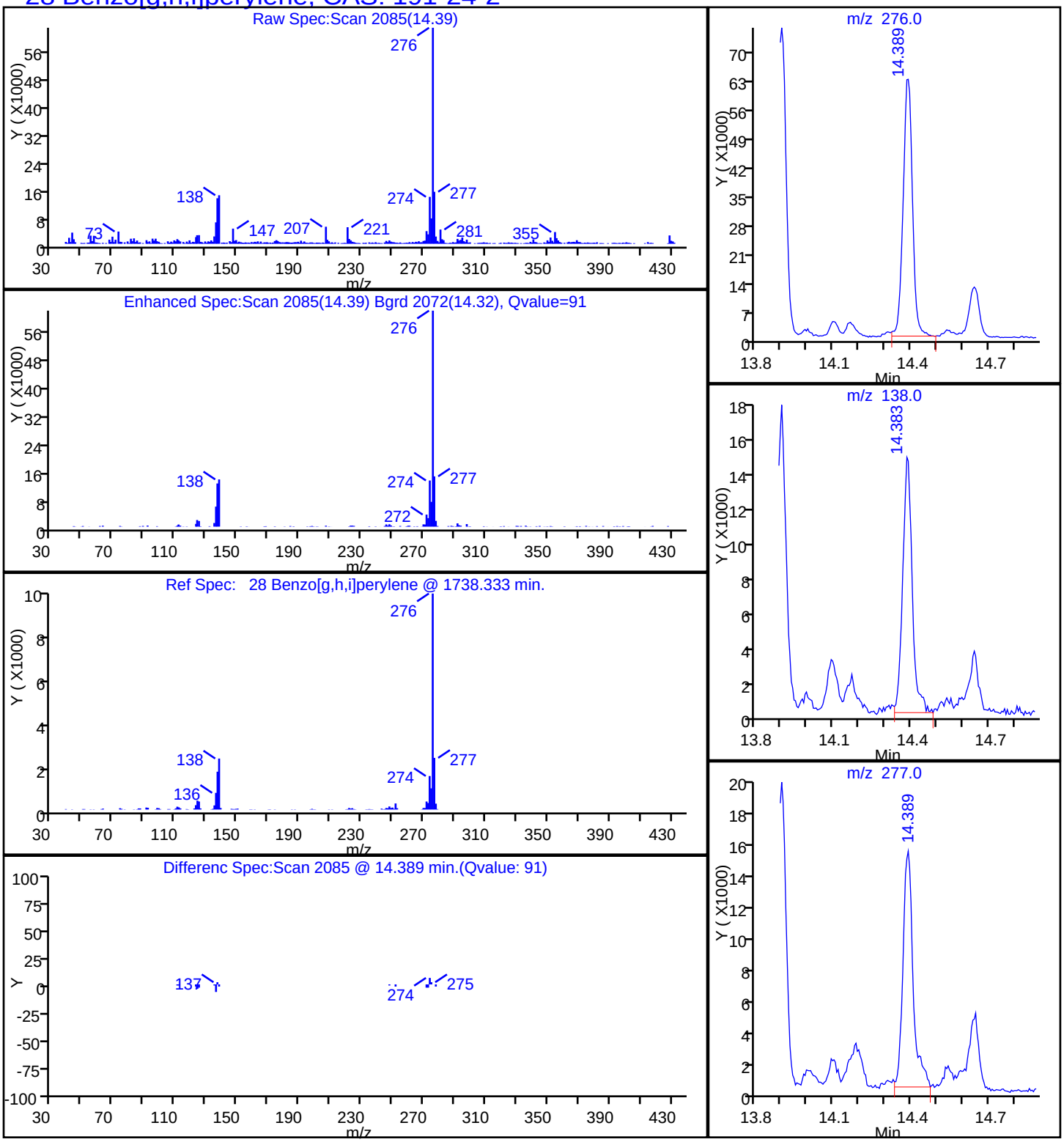


Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

28 Benzo[g,h,i]perylene, CAS: 191-24-2



Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
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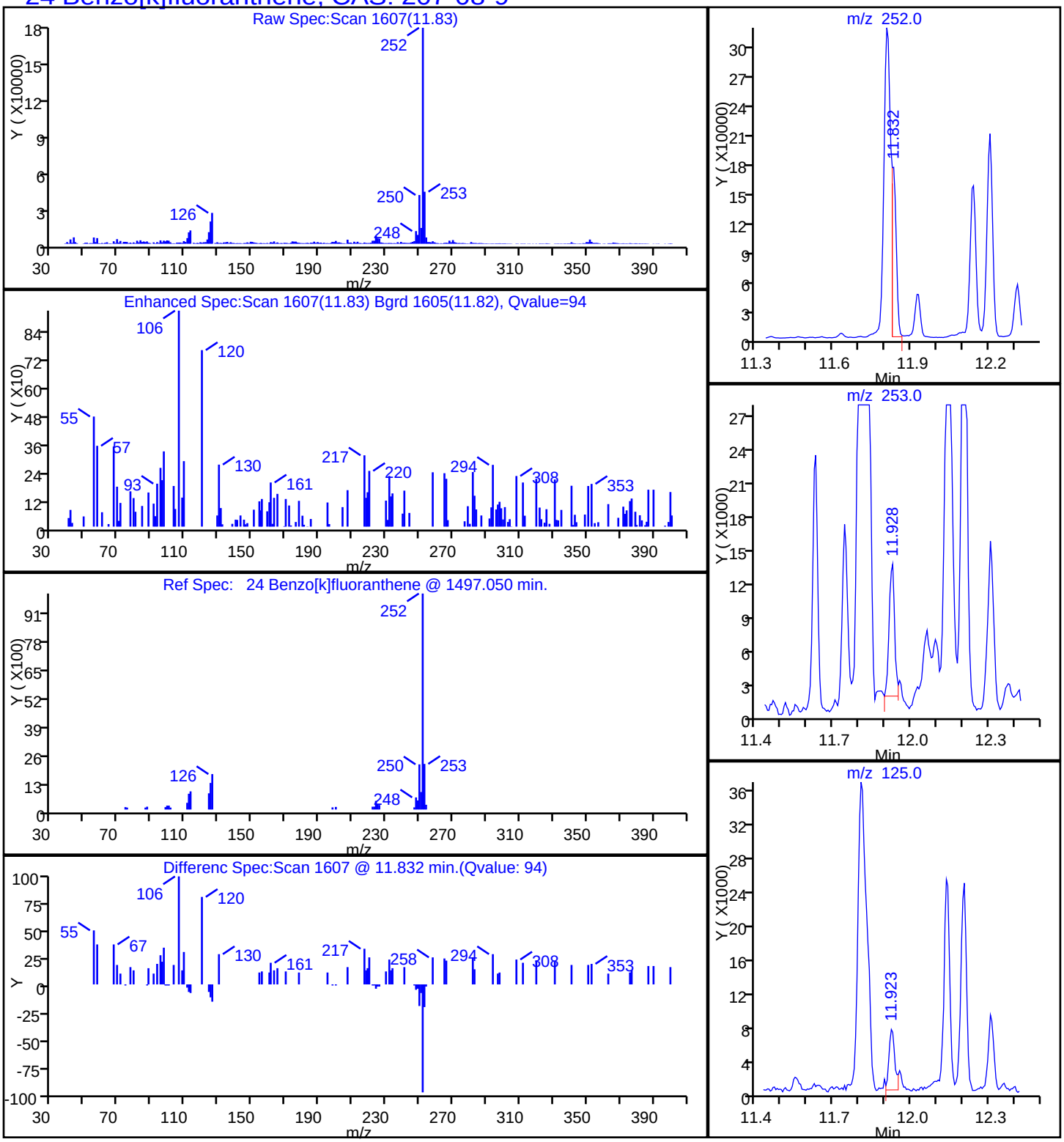
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

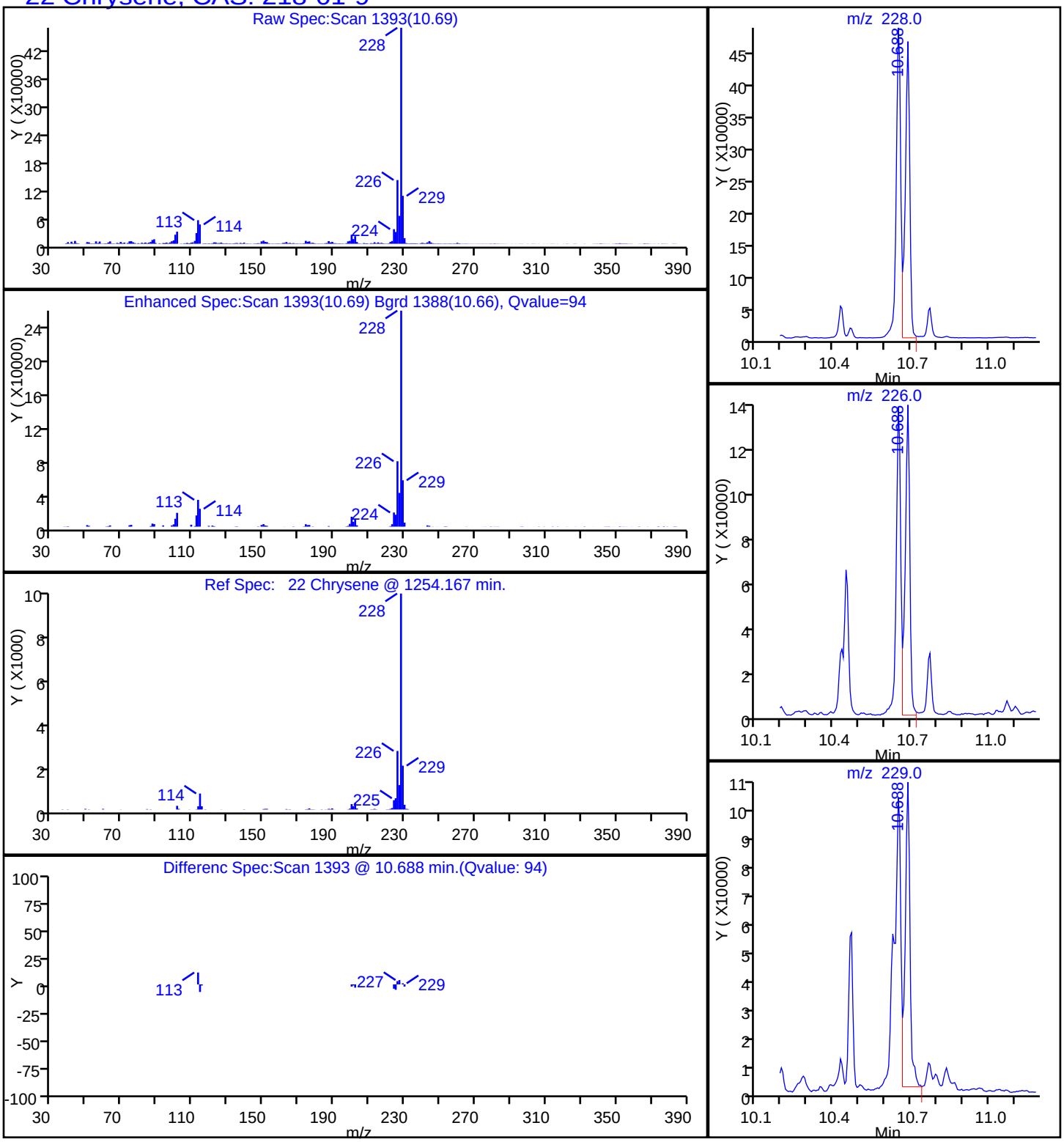


Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Chrysene, CAS: 218-01-9



Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
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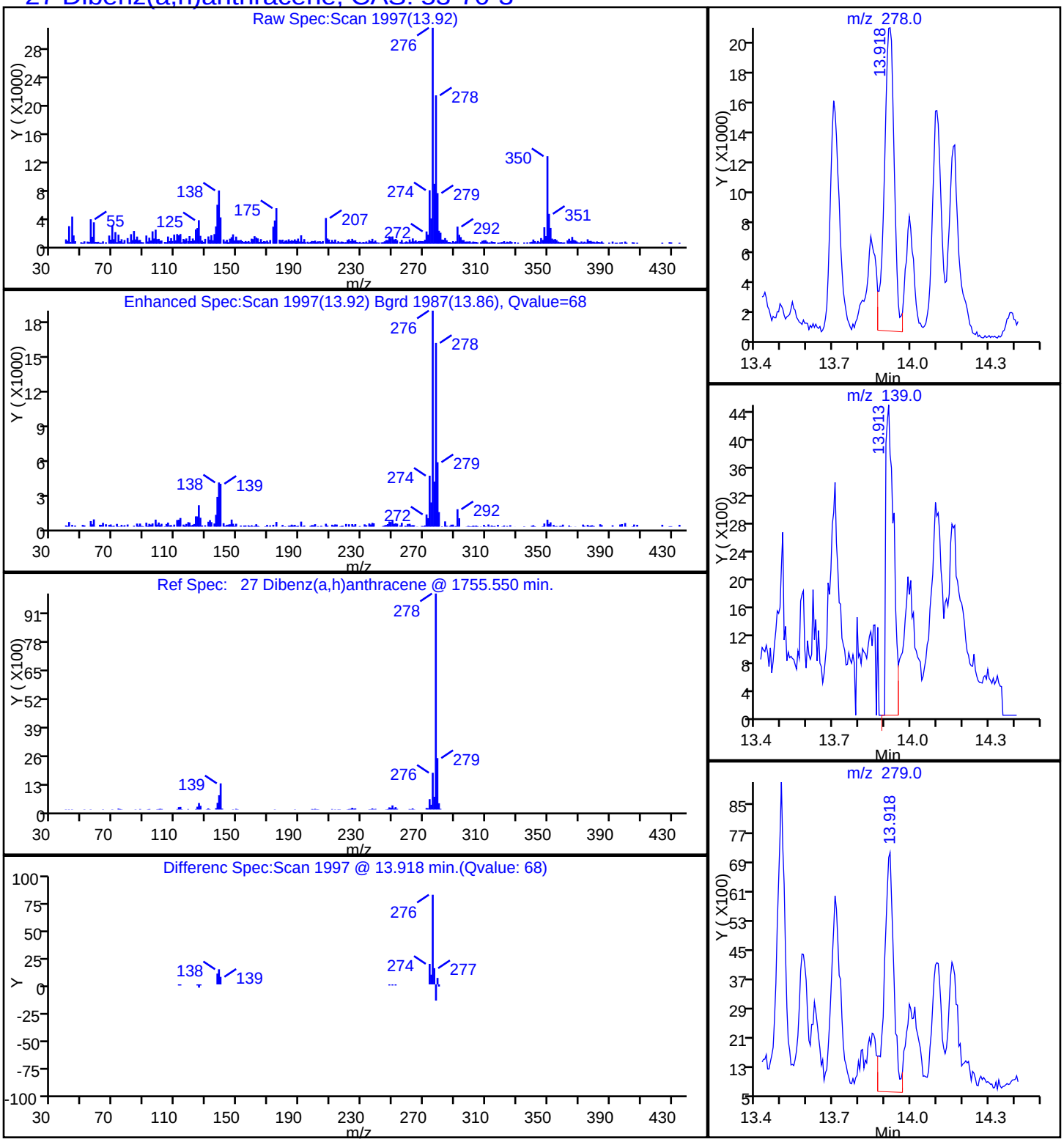
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

27 Dibenz(a,h)anthracene, CAS: 53-70-3

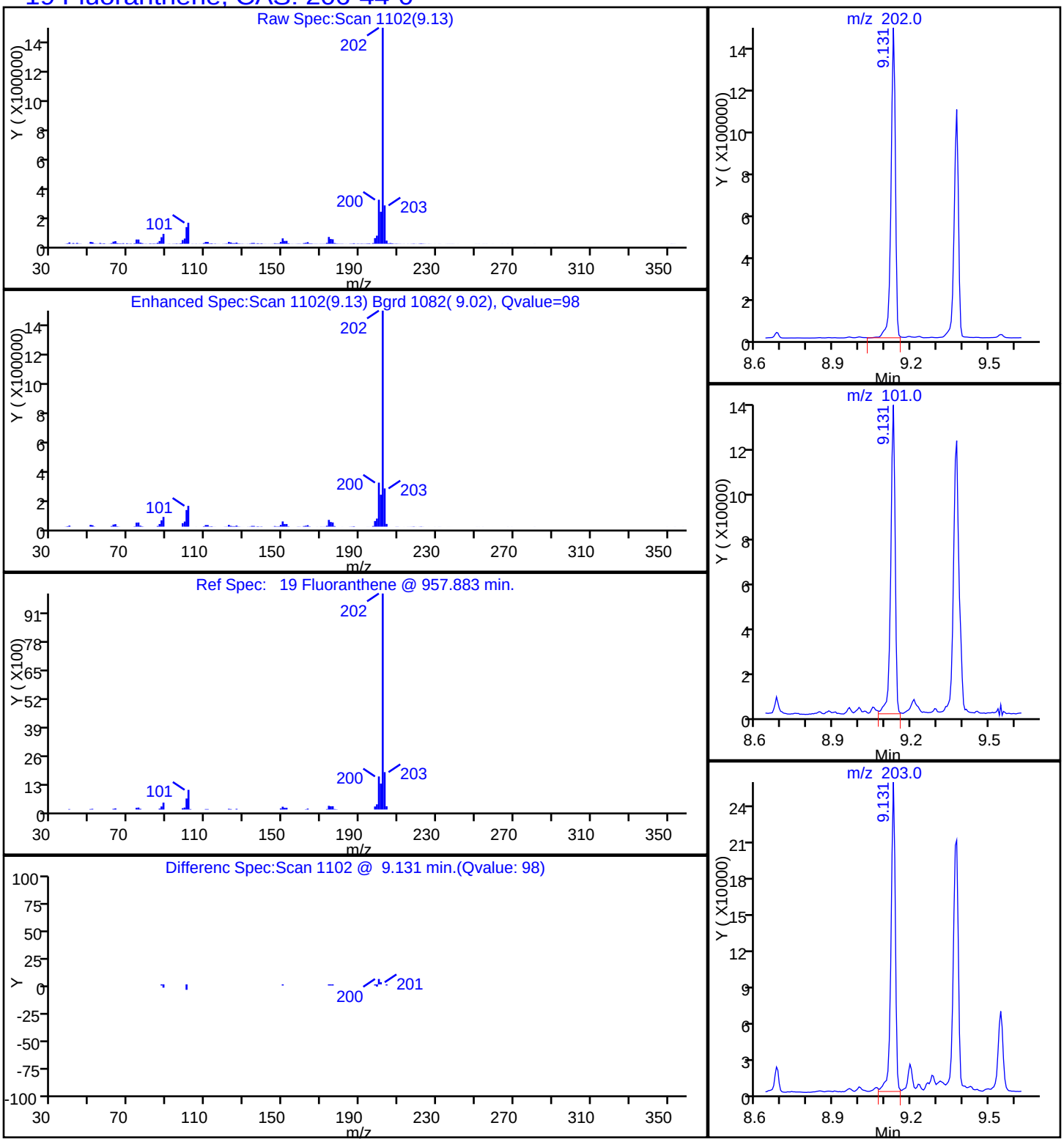


Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 Fluoranthene, CAS: 206-44-0

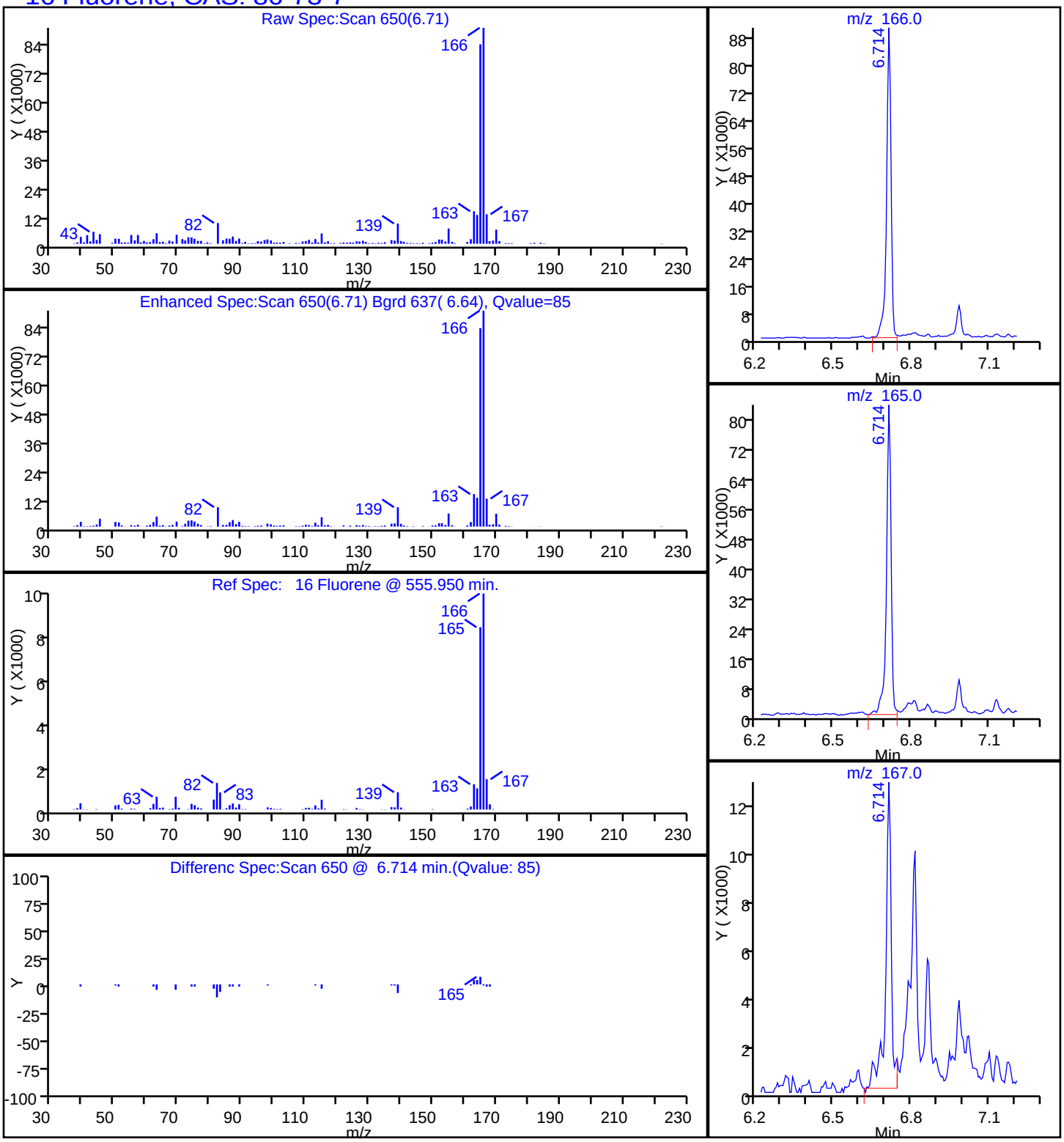


Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

16 Fluorene, CAS: 86-73-7

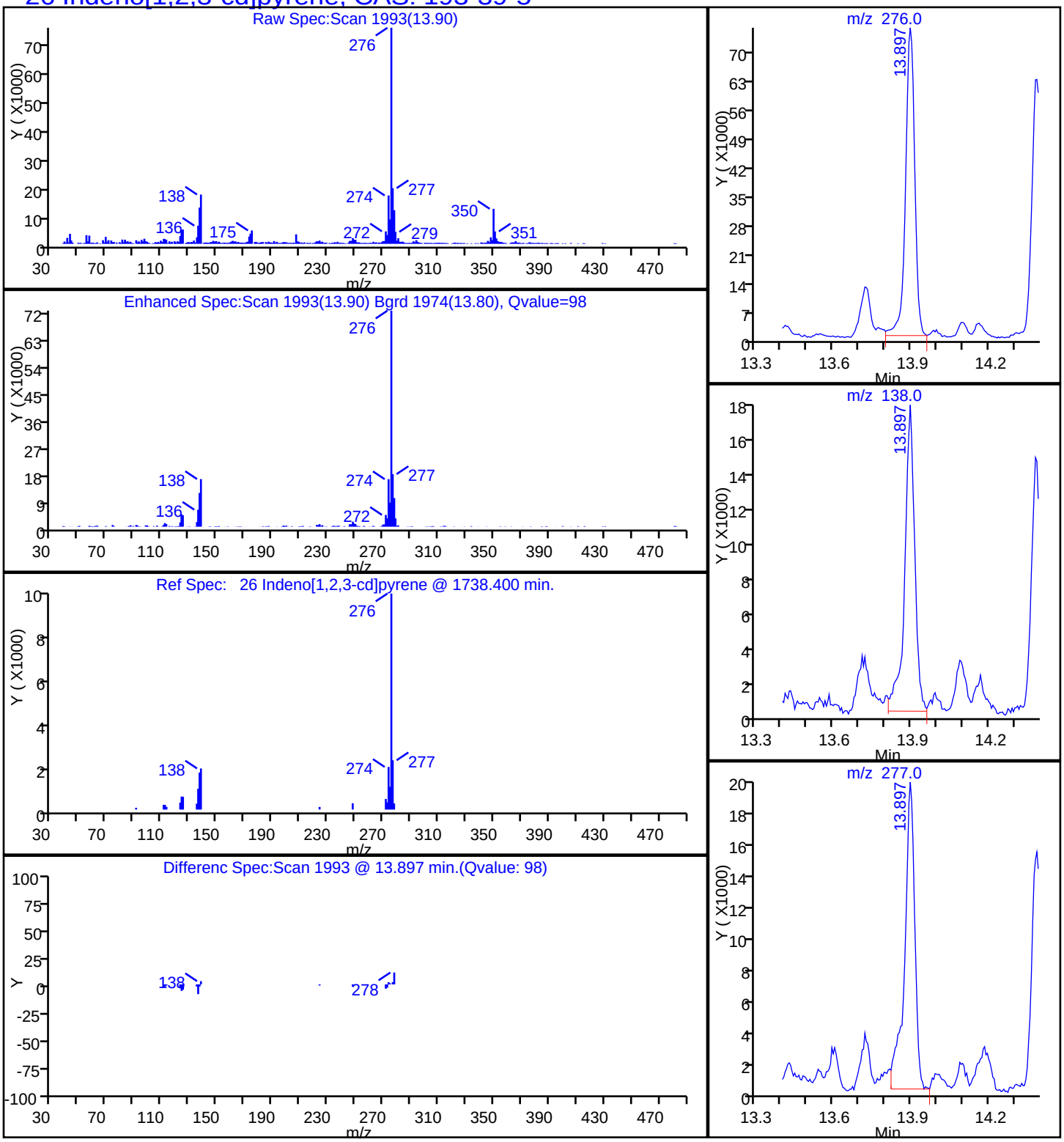


Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

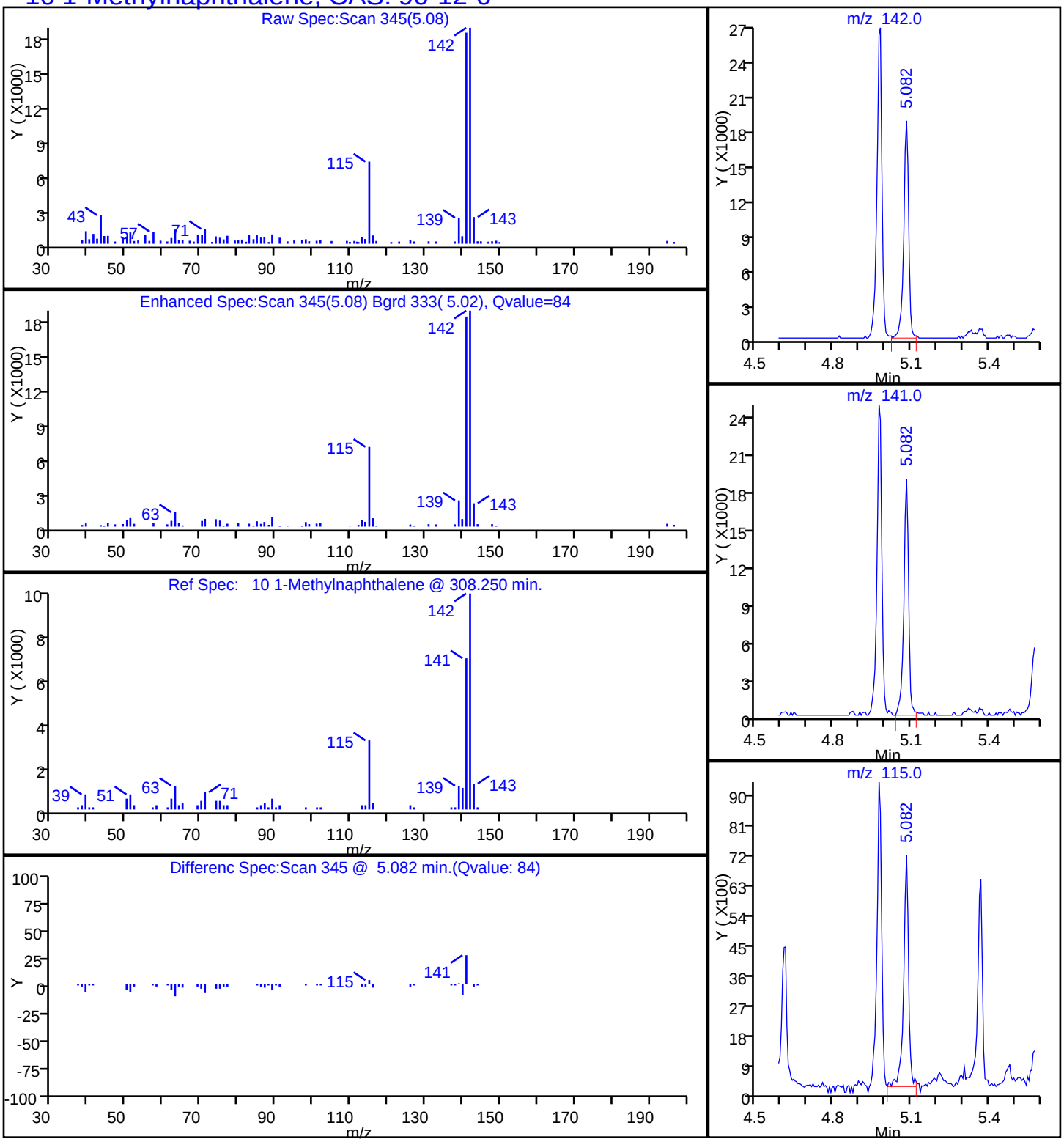


Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

10 1-Methylnaphthalene, CAS: 90-12-0

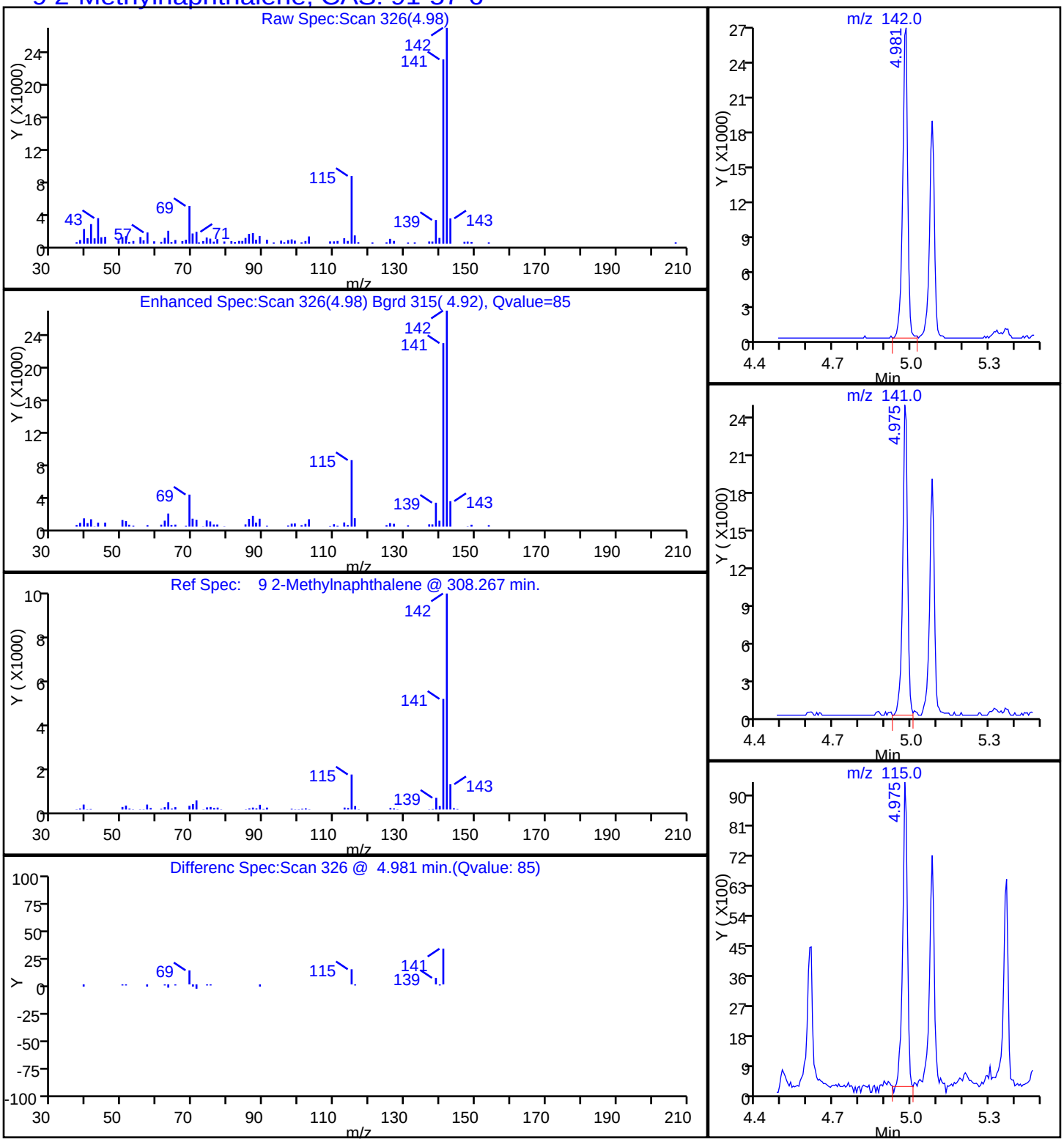


Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

9 2-Methylnaphthalene, CAS: 91-57-6

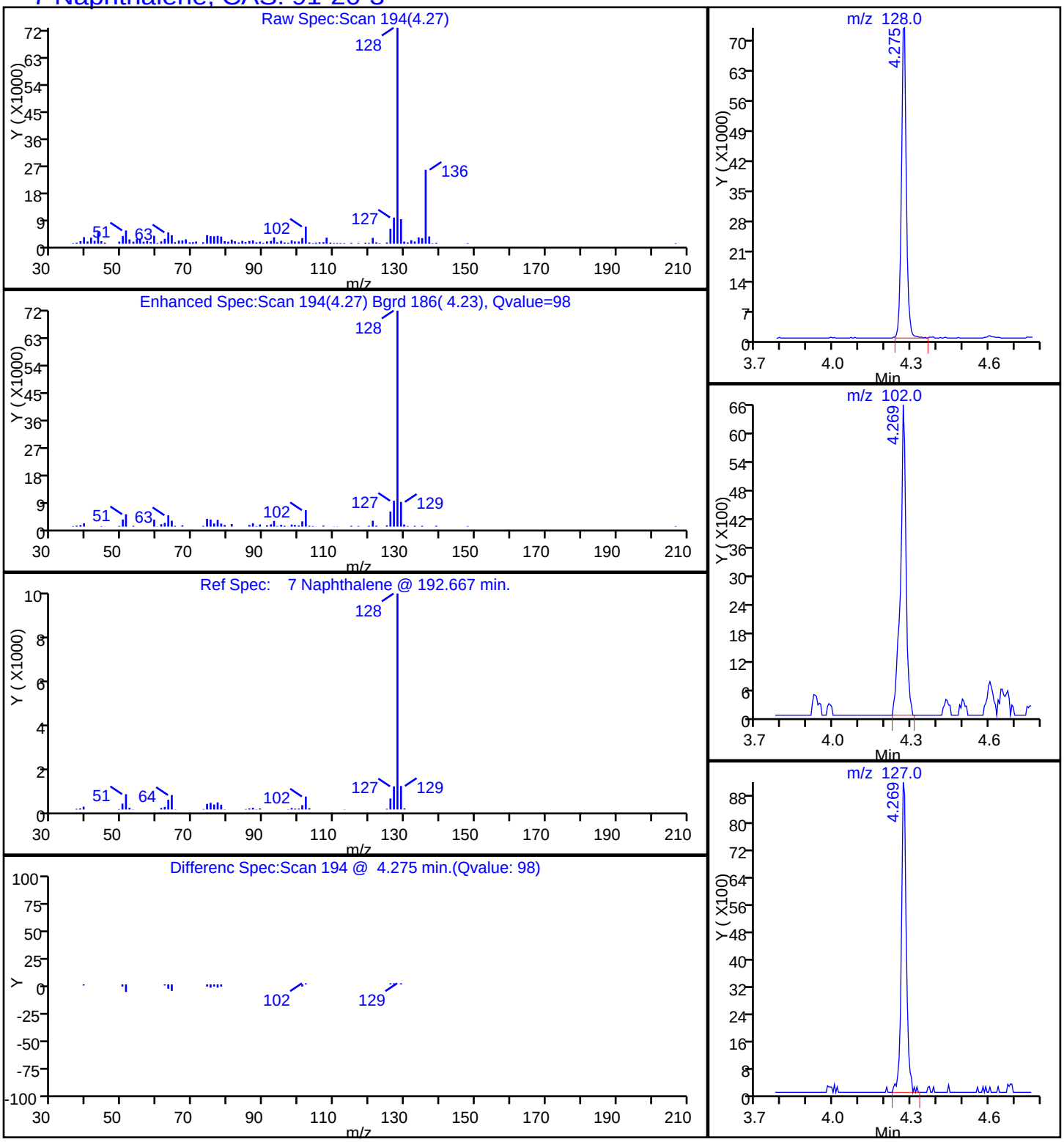


Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Naphthalene, CAS: 91-20-3

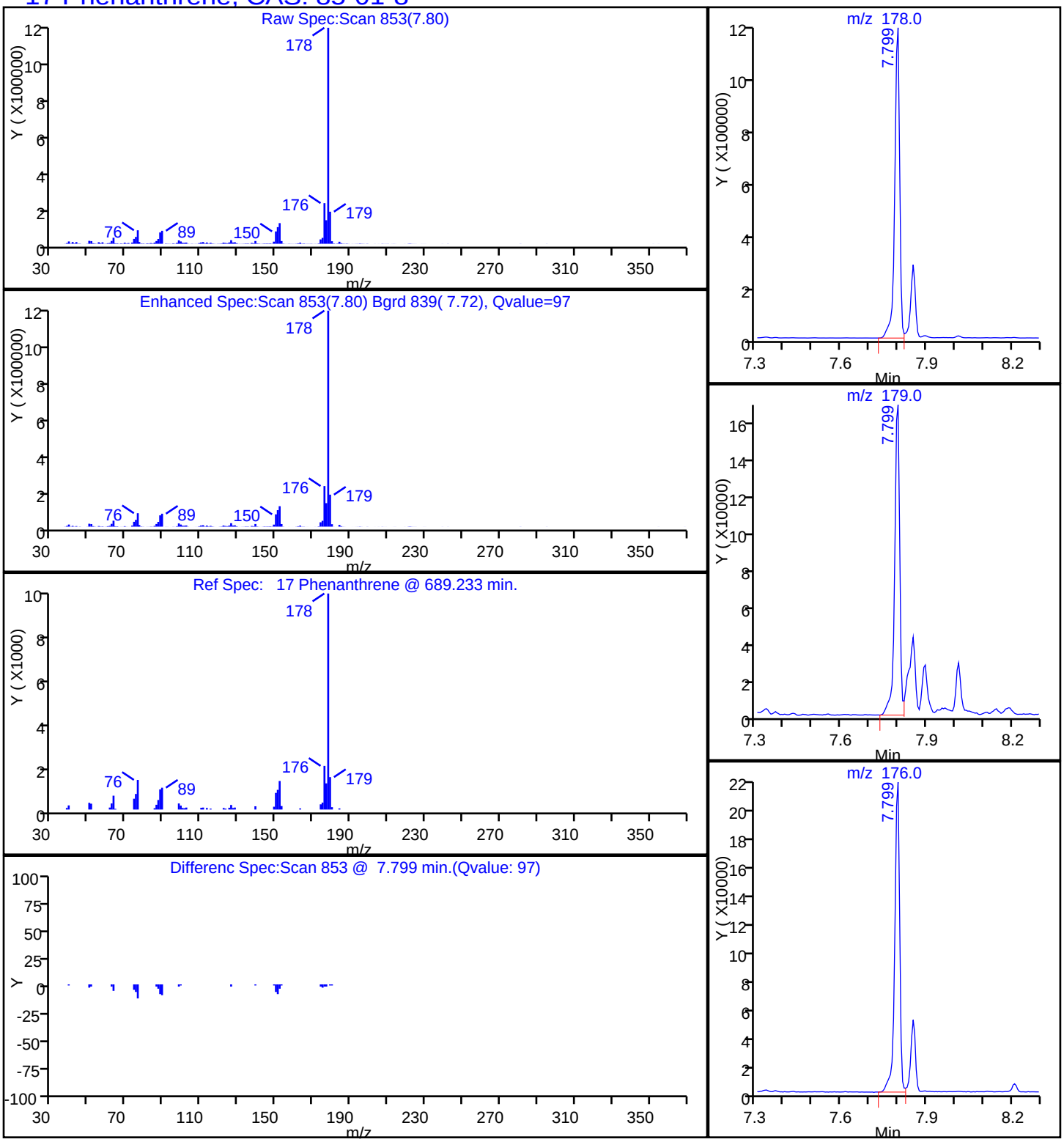


Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Phenanthrene, CAS: 85-01-8

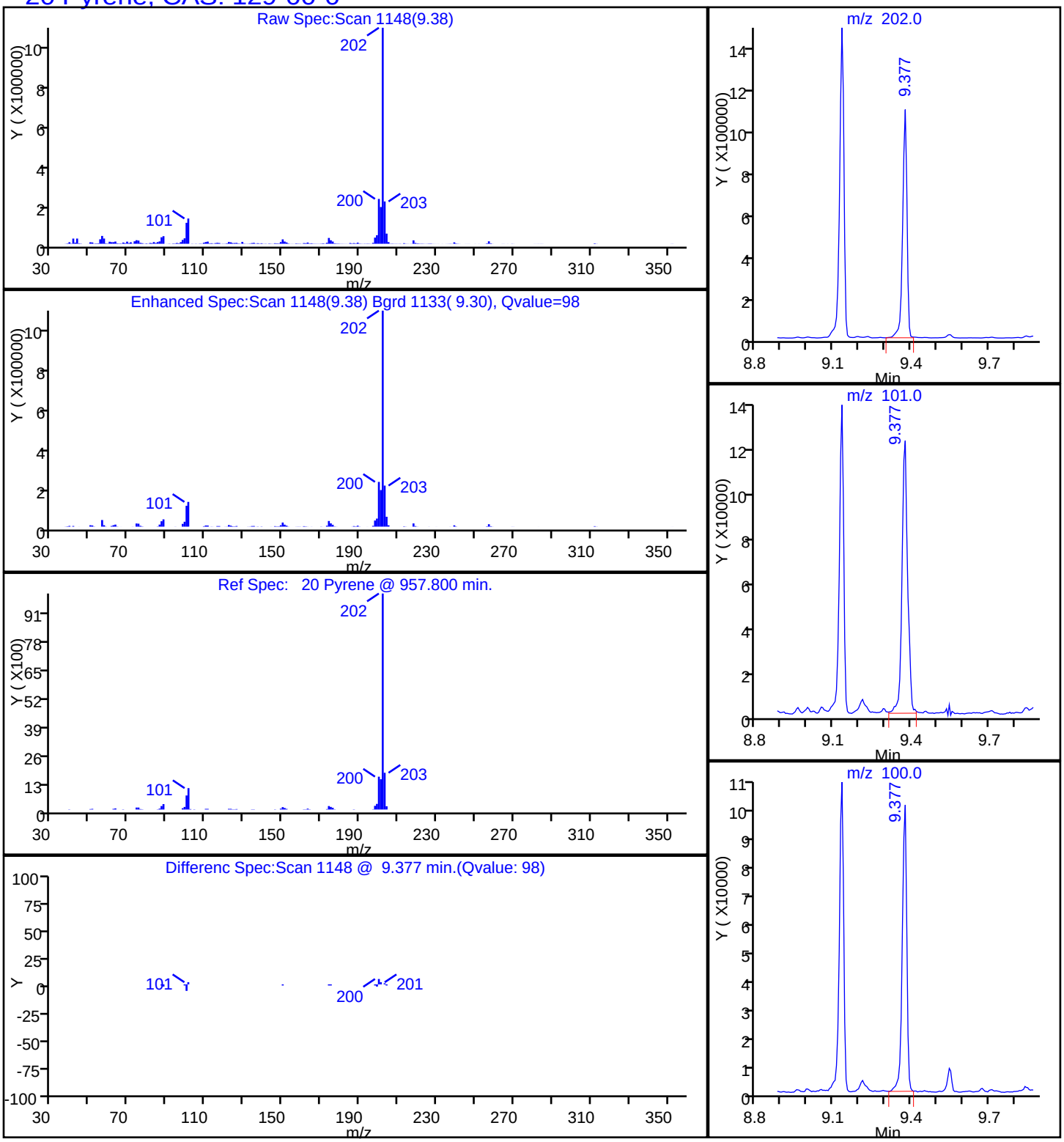


Report Date: 19-Nov-2014 08:49:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

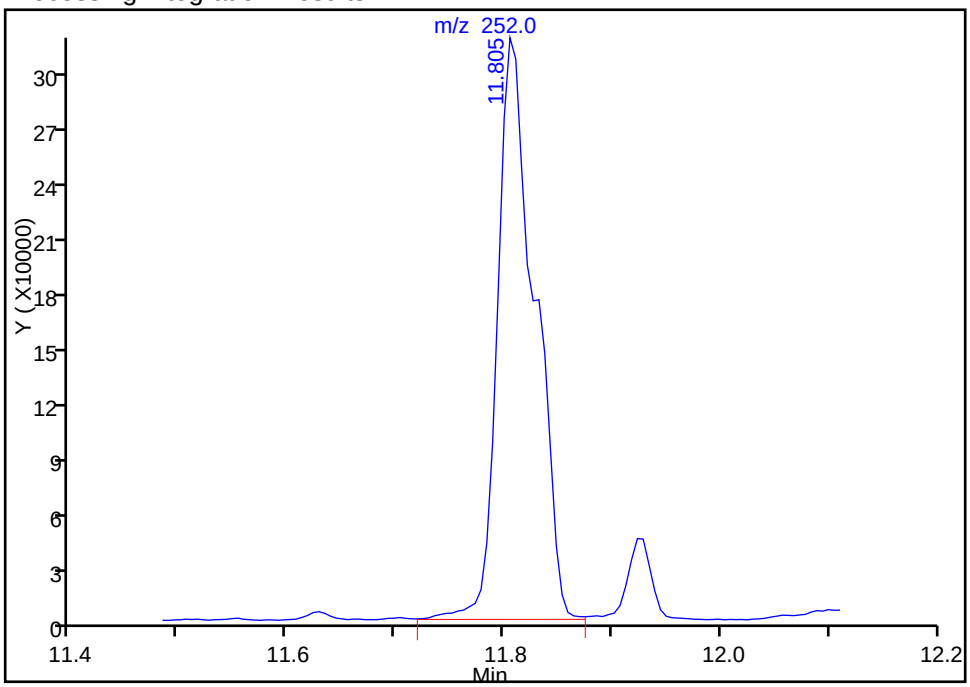
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

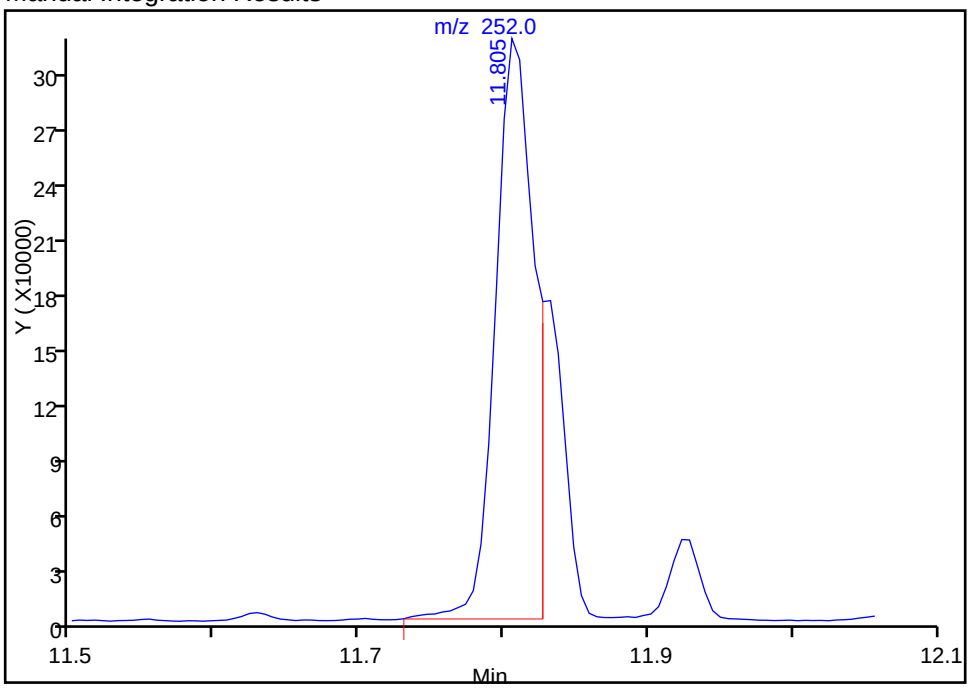
Processing Integration Results

RT: 11.81
Response: 750238
Amount: 4.934432



Manual Integration Results

RT: 11.81
Response: 594703
Amount: 3.911454



Reviewer: webbk, 19-Nov-2014 08:02:55
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

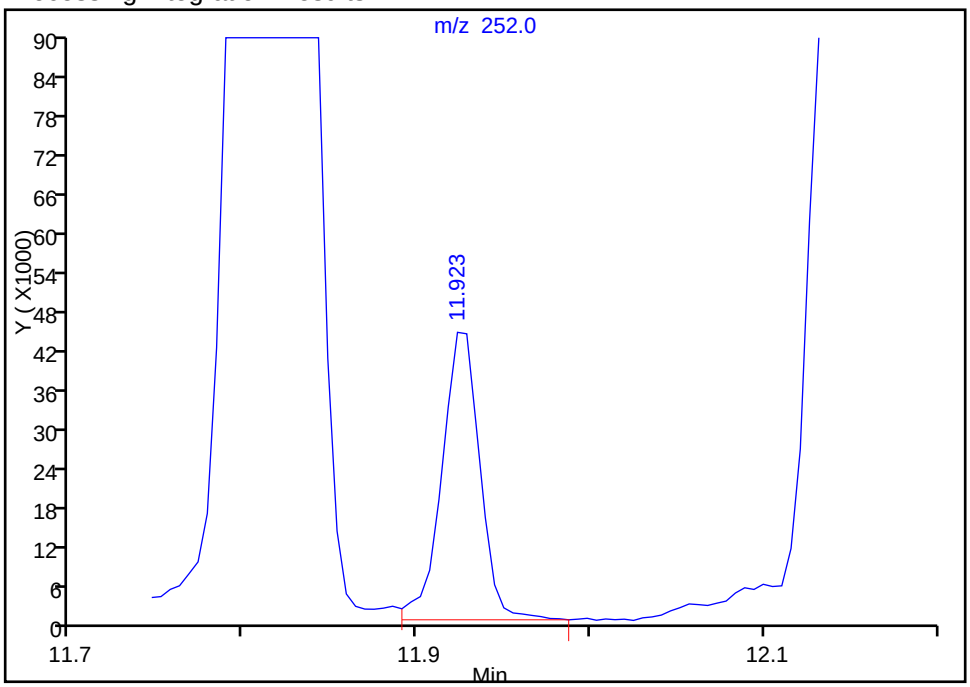
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1726.D				
Injection Date:	18-Nov-2014 20:20:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-9-A	Lab Sample ID:	680-107159-9		
Client ID:	FM0281D-CS24"				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

Processing Integration Results

RT: 11.92
Response: 67277
Amount: 0.413507



Manual Integration Results

RT: 11.83
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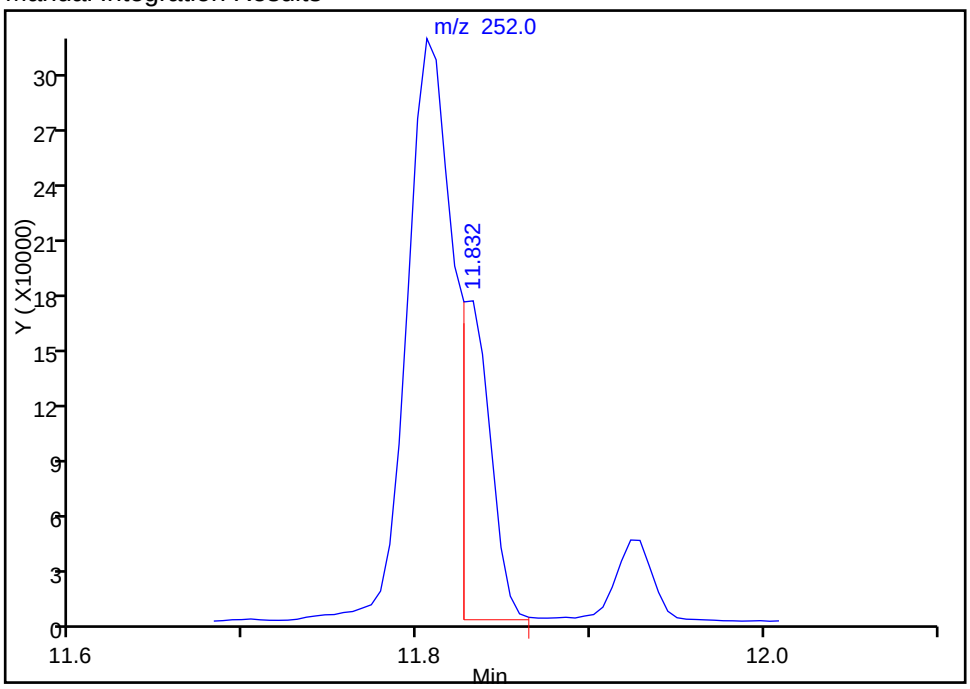
Amount: 1.268865



Reviewer: webbk, 19-Nov-2014 08:02:55
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281C-CS6" | Lab Sample ID: 680-107159-10

Matrix: Solid | Lab File ID: 1YK1727.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 10:30

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.00(g) | Date Analyzed: 11/18/2014 20:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	73	U	73	36
208-96-8	Acenaphthylene	73	U	73	36
120-12-7	Anthracene	73	U	73	36
56-55-3	Benzo[a]anthracene	140		73	36
50-32-8	Benzo[a]pyrene	140		73	13
205-99-2	Benzo[b]fluoranthene	250		73	36
191-24-2	Benzo[g,h,i]perylene	93		73	36
207-08-9	Benzo[k]fluoranthene	92		73	22
218-01-9	Chrysene	170		73	36
53-70-3	Dibenz(a,h)anthracene	38	J	73	36
206-44-0	Fluoranthene	190		73	36
86-73-7	Fluorene	73	U	73	36
193-39-5	Indeno[1,2,3-cd]pyrene	71	J	73	36
90-12-0	1-Methylnaphthalene	73	U	73	34
91-57-6	2-Methylnaphthalene	73	U	73	36
91-20-3	Naphthalene	73	U	73	36
85-01-8	Phenanthrene	77		73	26
129-00-0	Pyrene	220		73	36

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1727.D
Lims ID: 680-107159-B-10-A Lab Sample ID: 680-107159-10
Client ID: FM0281C-CS6"
Sample Type: Client
Inject. Date: 18-Nov-2014 20:43:30 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Sample Info: 107159-B-10-A 1:10
Misc. Info.: 680-0014871-027
Operator ID: Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 19-Nov-2014 08:10:37 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: webbk Date: 19-Nov-2014 08:03:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.258	4.264	-0.006	99	480251	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	92	276058	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	482181	2.00	
* 4 Chrysene-d12	240	10.661	10.655	0.006	99	355142	2.00	
* 5 Perylene-d12	264	12.276	12.265	0.011	99	225149	2.00	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	82	12090	0.0739	
10 1-Methylnaphthalene	142	5.088	5.087	0.001	82	10540	0.0707	
12 Acenaphthylene	152	5.949	5.949	0.000	94	16343	0.0638	
17 Phenanthrene	178	7.794	7.794	0.000	96	59537	0.2116	
18 Anthracene	178	7.853	7.853	0.000	89	14830	0.0560	
19 Fluoranthene	202	9.126	9.126	0.000	99	145061	0.5252	
20 Pyrene	202	9.372	9.372	0.000	97	134998	0.6114	
21 Benzo[a]anthracene	228	10.650	10.645	0.005	64	78050	0.3940	
22 Chrysene	228	10.682	10.682	0.000	90	82040	0.4663	
23 Benzo[b]fluoranthene	252	11.805	11.795	0.010	98	95726	0.6897	M
24 Benzo[k]fluoranthene	252	11.821	11.827	-0.006	55	37550	0.2522	M
25 Benzo[a]pyrene	252	12.201	12.196	0.005	95	42294	0.3836	
26 Indeno[1,2,3-cd]pyrene	276	13.891	13.870	0.021	97	29704	0.1932	
27 Dibenz(a,h)anthracene	278	13.913	13.897	0.016	66	9598	0.1030	
28 Benzo[g,h,i]perylene	276	14.378	14.357	0.021	79	26593	0.2544	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Nov-2014 08:49:46 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1727.D				
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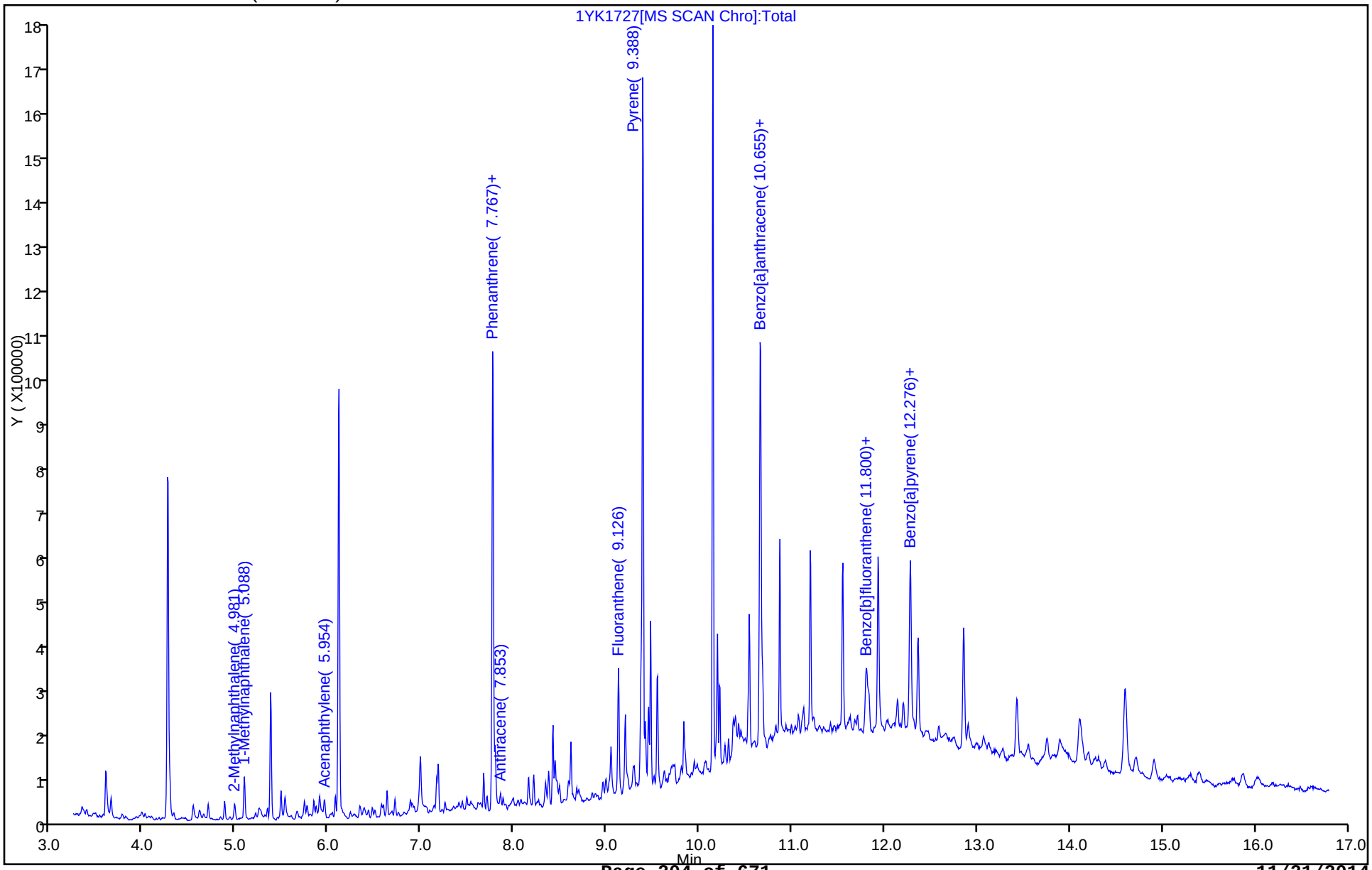
Lims ID:	680-107159-B-10-A	Lab Sample ID:	680-107159-10	Worklist Smp#:	27
Client ID:	FM0281C-CS6"				
Injection Vol:	2.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	27
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)

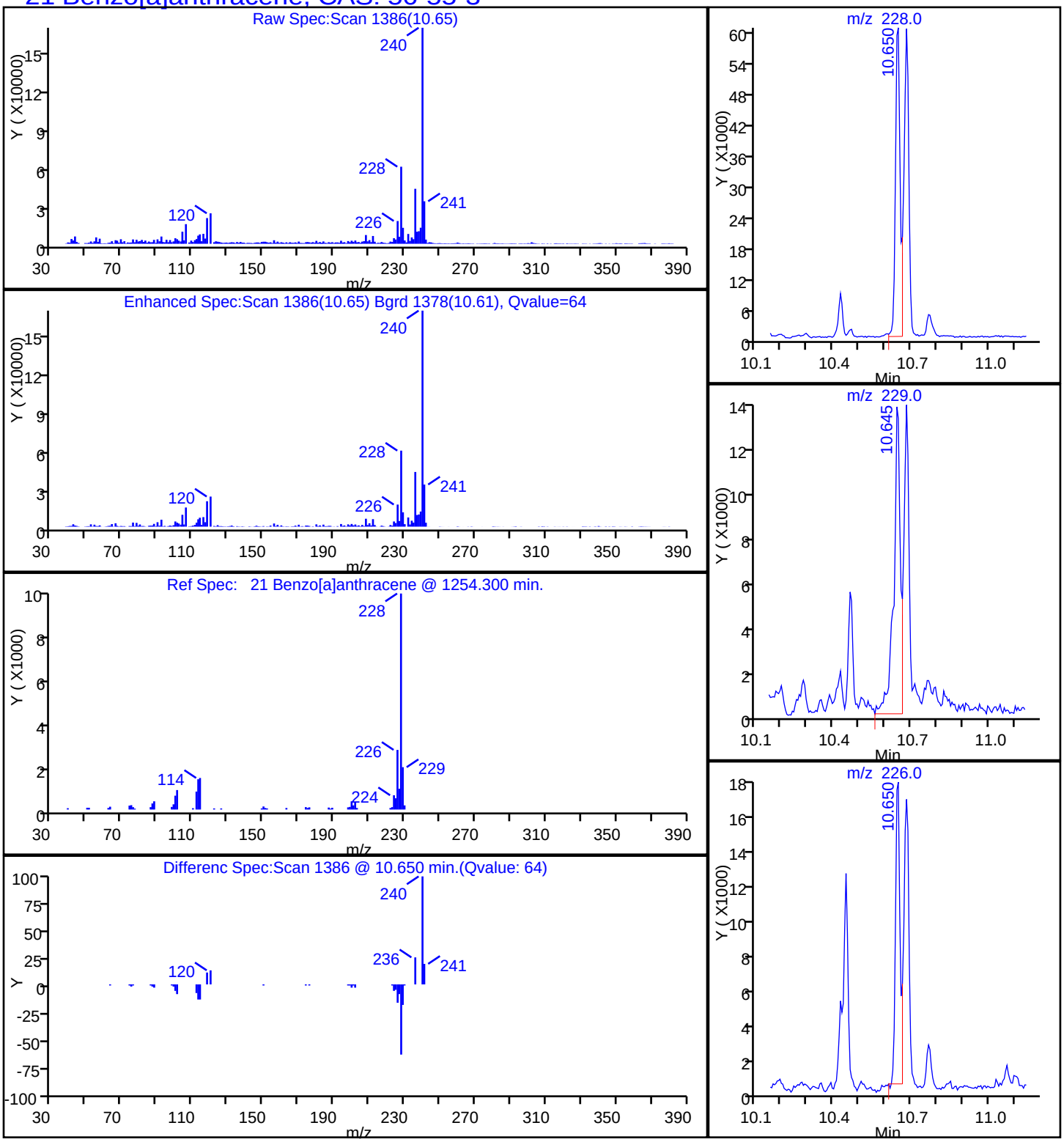


Report Date: 19-Nov-2014 08:49:47 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1727.D				
Injection Date:	18-Nov-2014 20:43:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-10-A	Lab Sample ID:	680-107159-10		
Client ID:	FM0281C-CS6"				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

21 Benzo[a]anthracene, CAS: 56-55-3

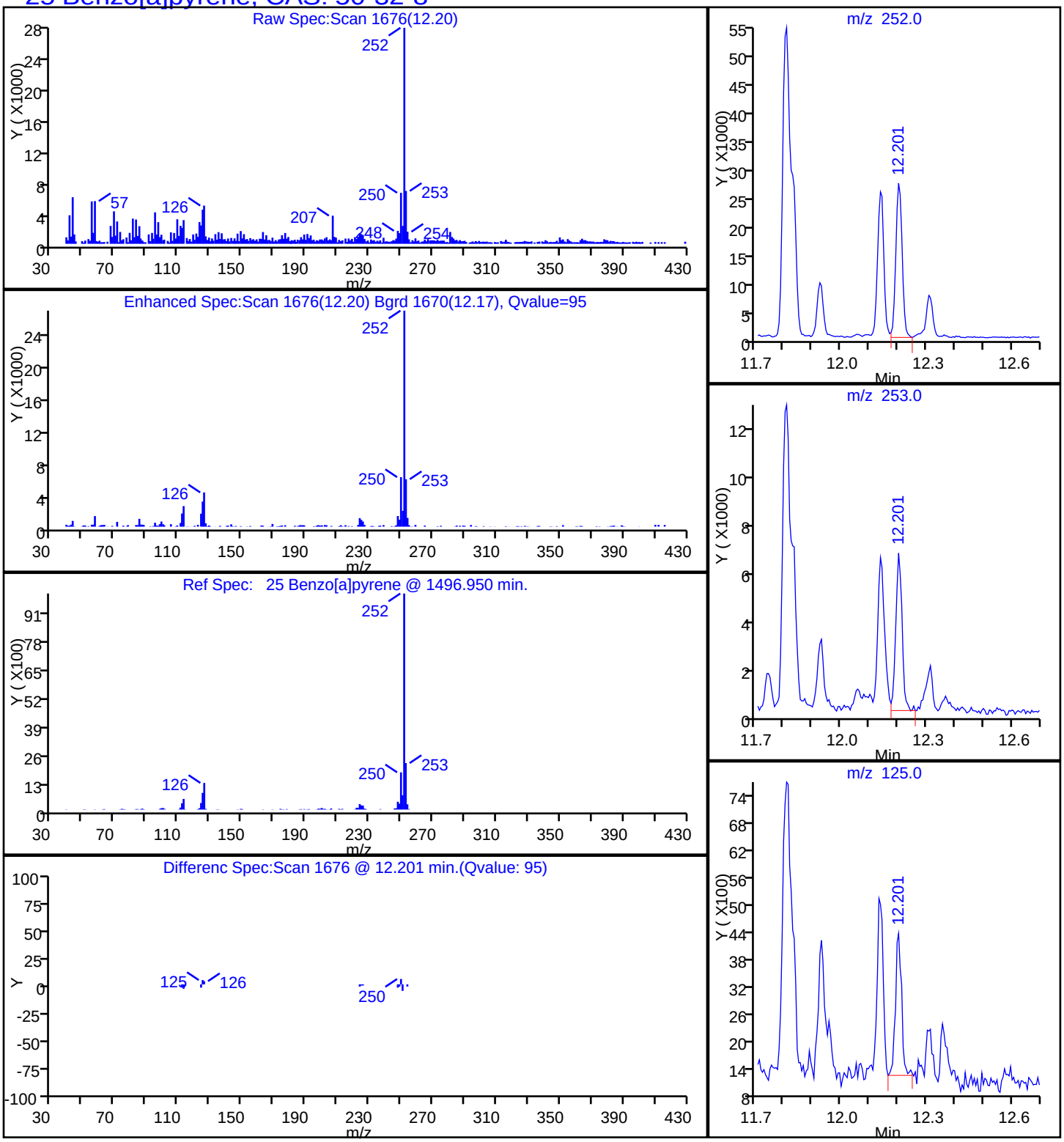


Report Date: 19-Nov-2014 08:49:47 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1727.D				
Injection Date:	18-Nov-2014 20:43:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-10-A	Lab Sample ID:	680-107159-10		
Client ID:	FM0281C-CS6"				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

25 Benzo[a]pyrene, CAS: 50-32-8

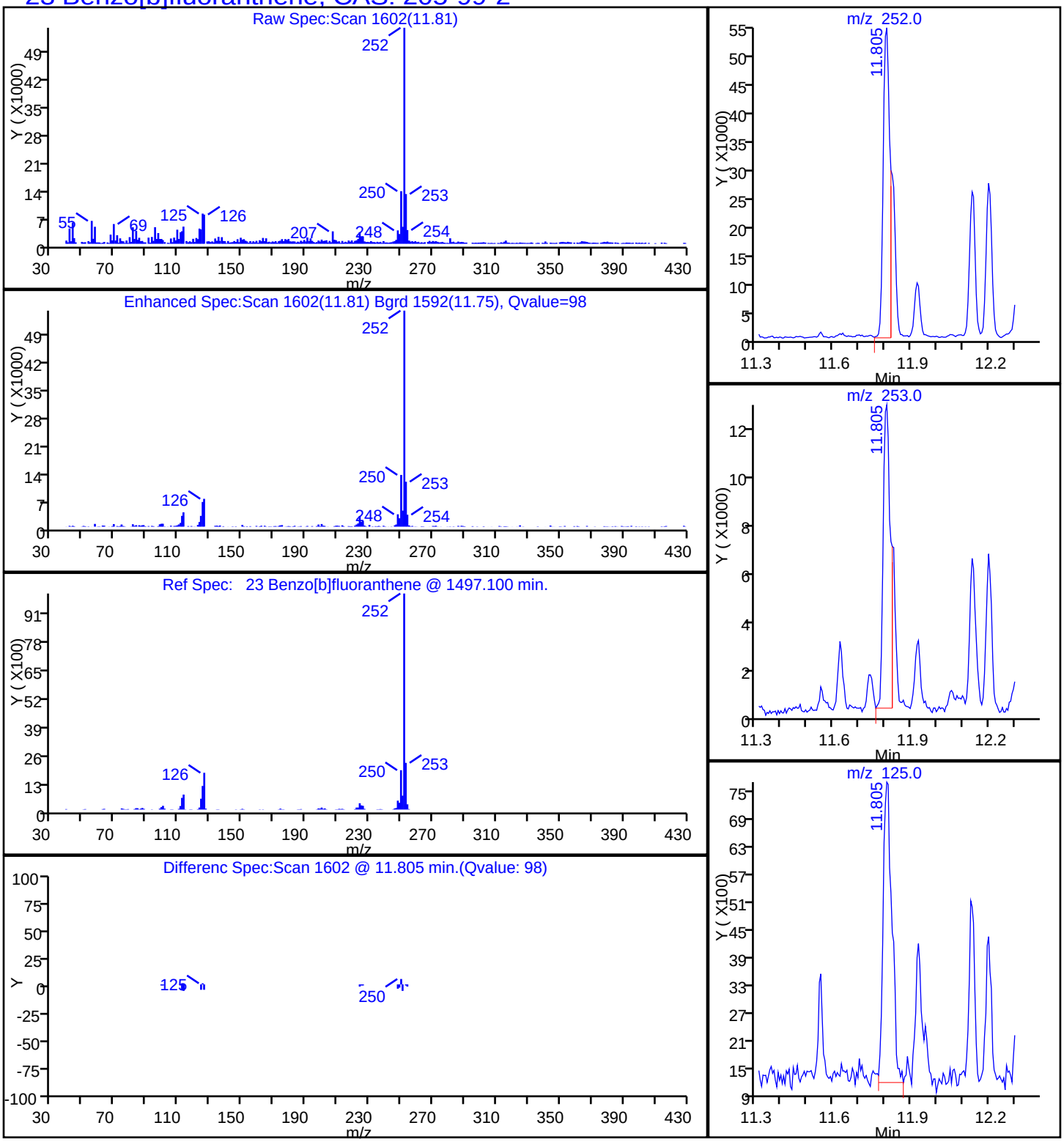


Report Date: 19-Nov-2014 08:49:47 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1727.D				
Injection Date:	18-Nov-2014 20:43:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-10-A	Lab Sample ID:	680-107159-10		
Client ID:	FM0281C-CS6"				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

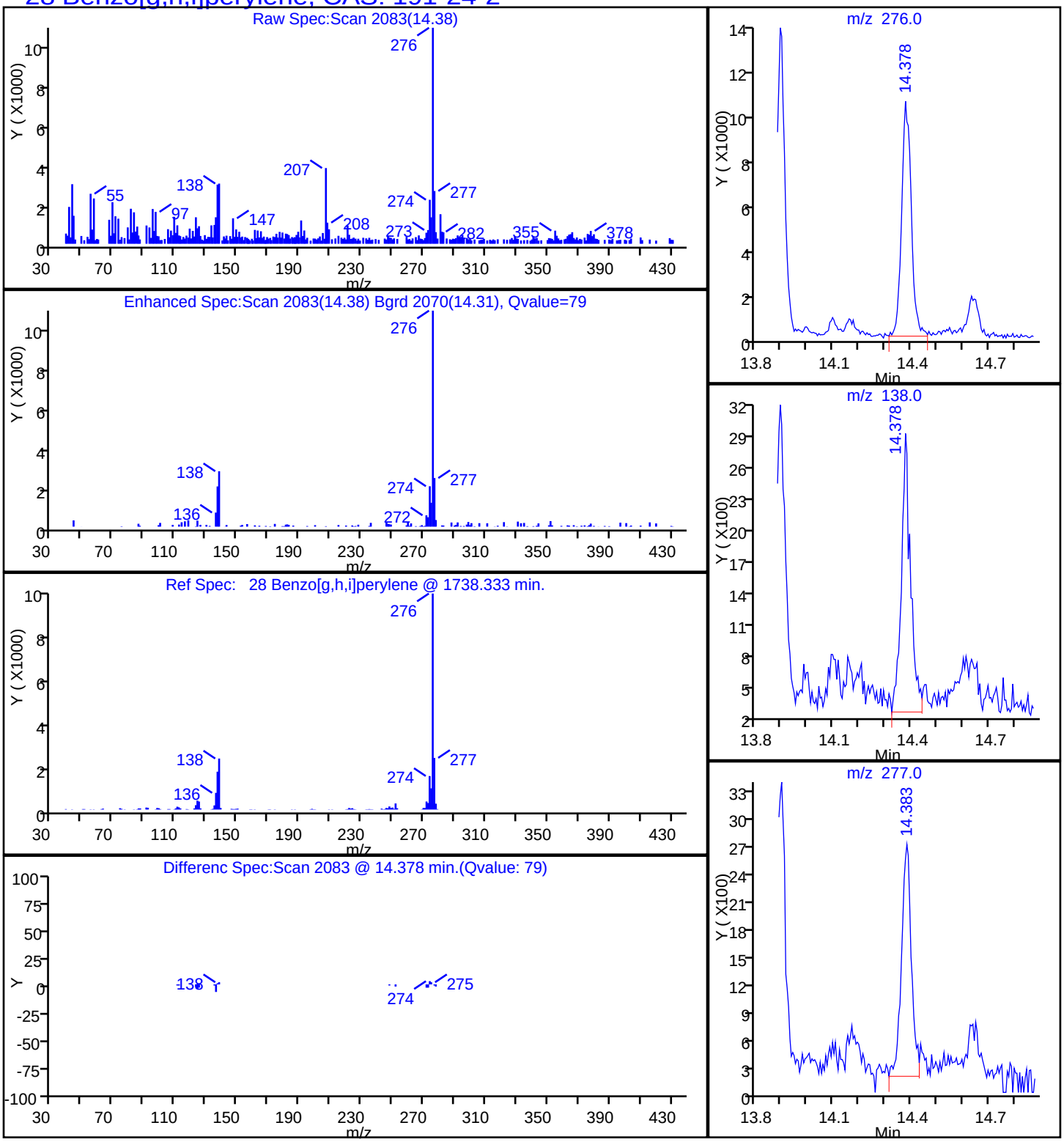


Report Date: 19-Nov-2014 08:49:47 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1727.D				
Injection Date:	18-Nov-2014 20:43:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-10-A	Lab Sample ID:	680-107159-10		
Client ID:	FM0281C-CS6"				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

28 Benzo[g,h,i]perylene, CAS: 191-24-2

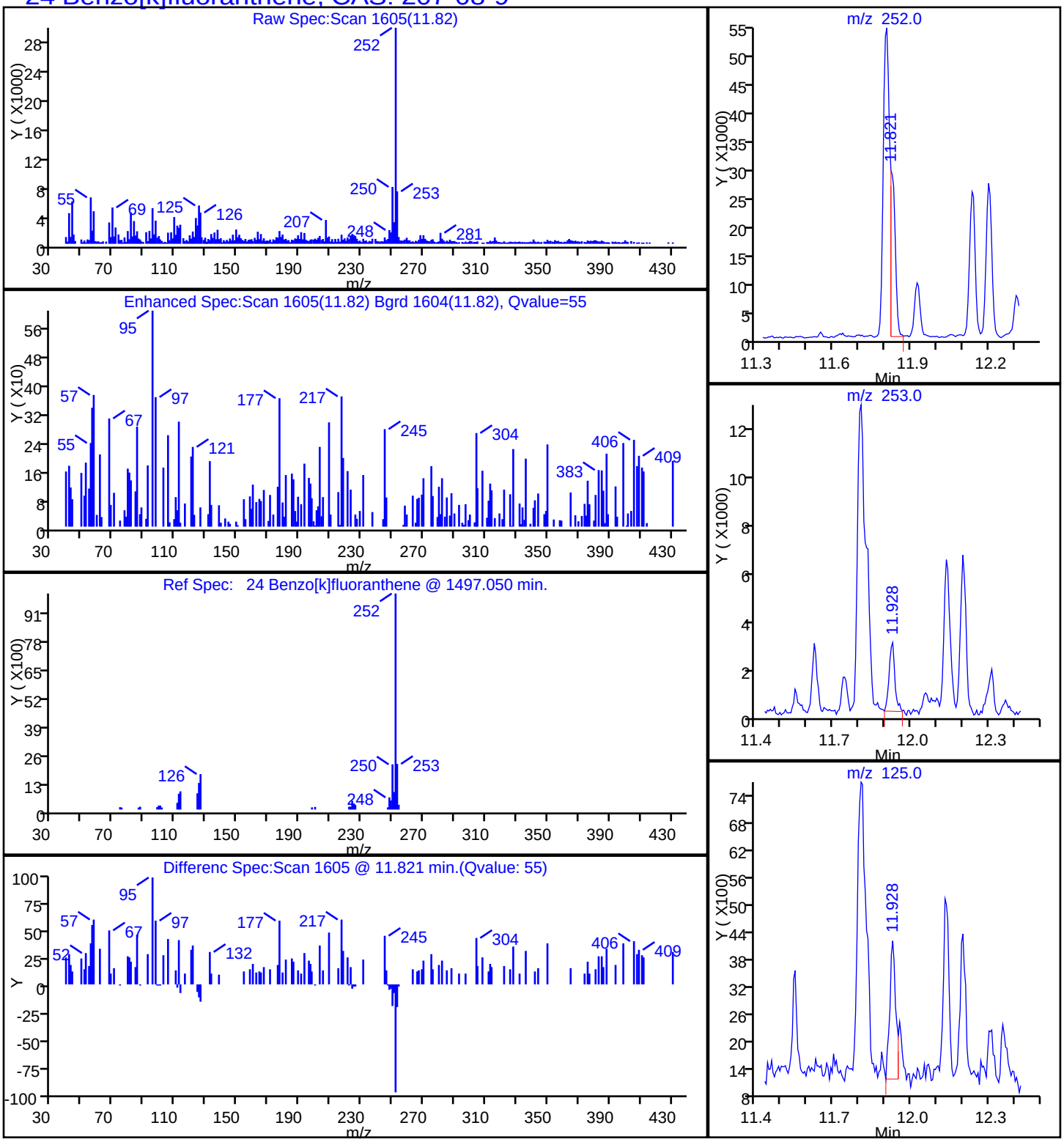


Report Date: 19-Nov-2014 08:49:47 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1727.D				
Injection Date:	18-Nov-2014 20:43:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-10-A	Lab Sample ID:	680-107159-10		
Client ID:	FM0281C-CS6"				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

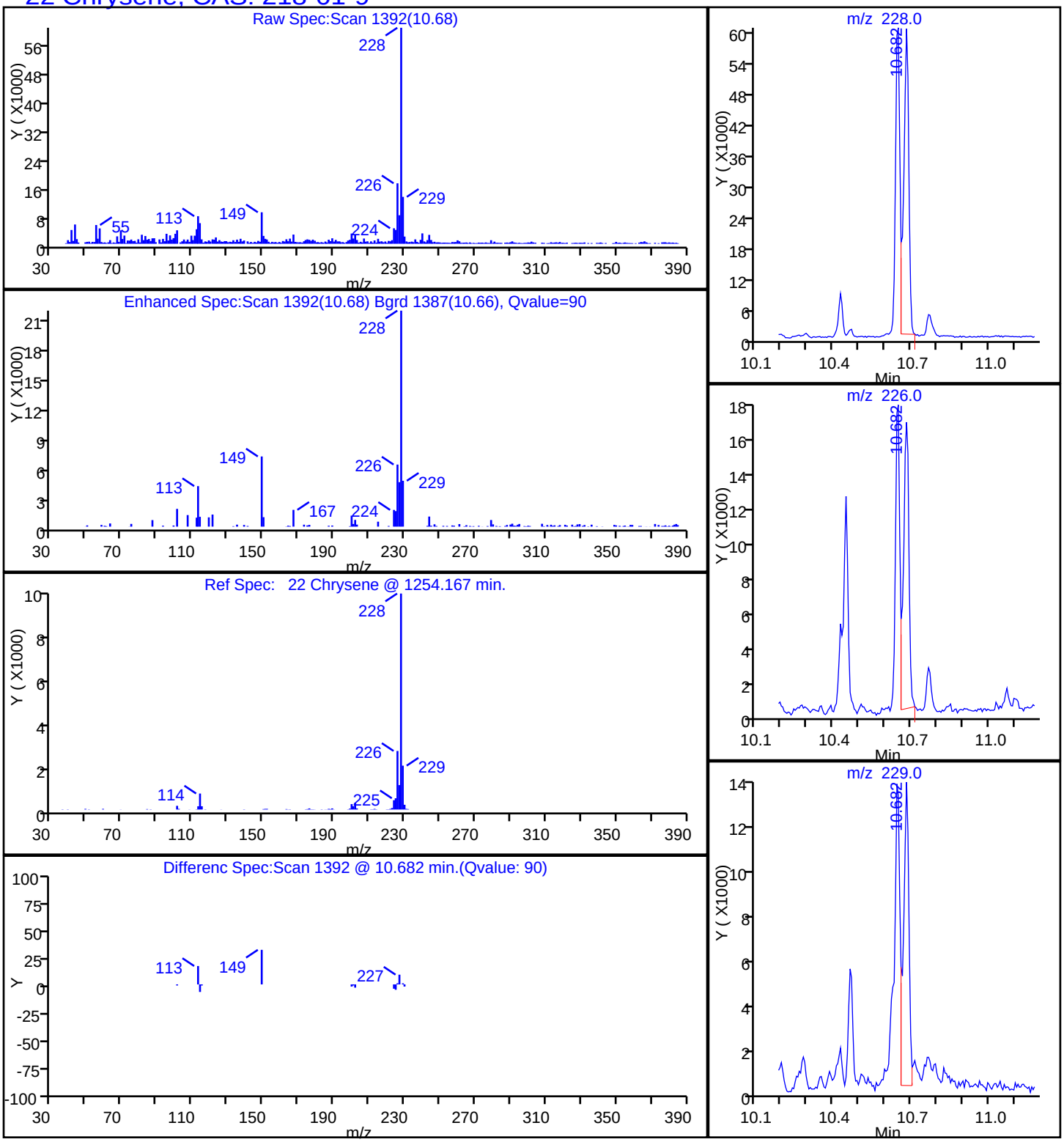


Report Date: 19-Nov-2014 08:49:47 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1727.D				
Injection Date:	18-Nov-2014 20:43:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-10-A	Lab Sample ID:	680-107159-10		
Client ID:	FM0281C-CS6"				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Chrysene, CAS: 218-01-9

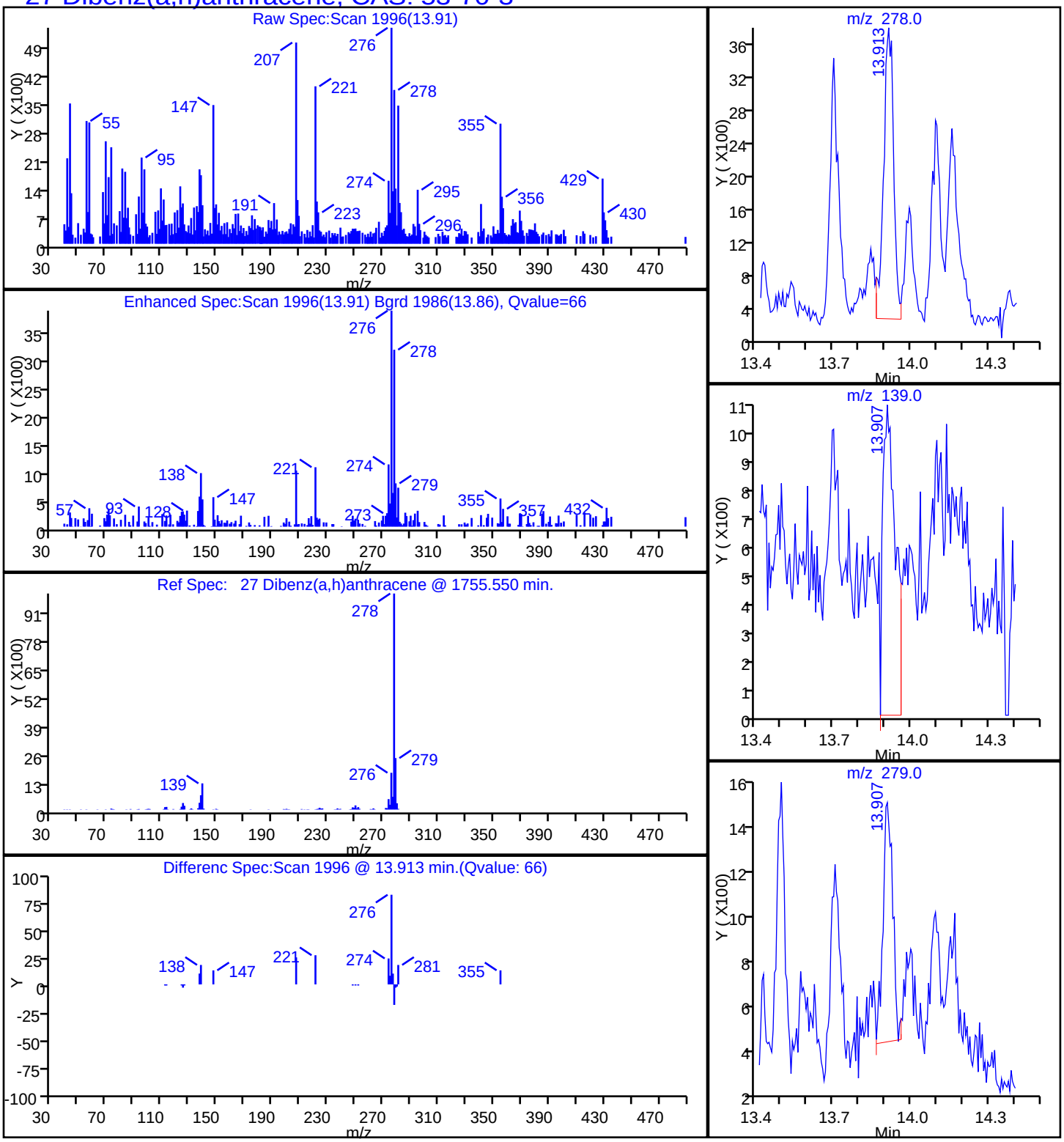


Report Date: 19-Nov-2014 08:49:47 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1727.D				
Injection Date:	18-Nov-2014 20:43:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-10-A	Lab Sample ID:	680-107159-10		
Client ID:	FM0281C-CS6"				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

27 Dibenz(a,h)anthracene, CAS: 53-70-3

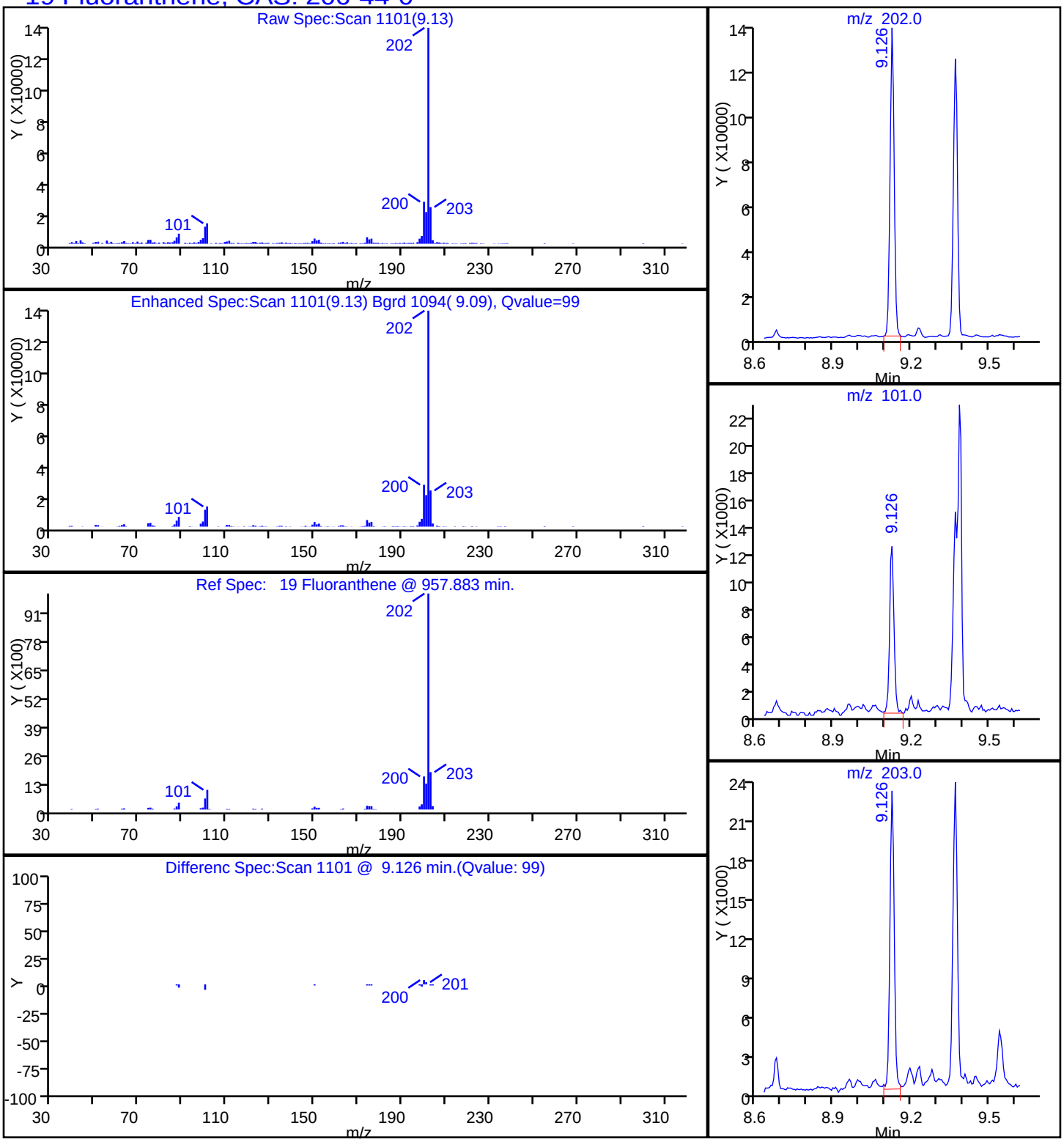


Report Date: 19-Nov-2014 08:49:47 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1727.D				
Injection Date:	18-Nov-2014 20:43:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-10-A	Lab Sample ID:	680-107159-10		
Client ID:	FM0281C-CS6"				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 Fluoranthene, CAS: 206-44-0

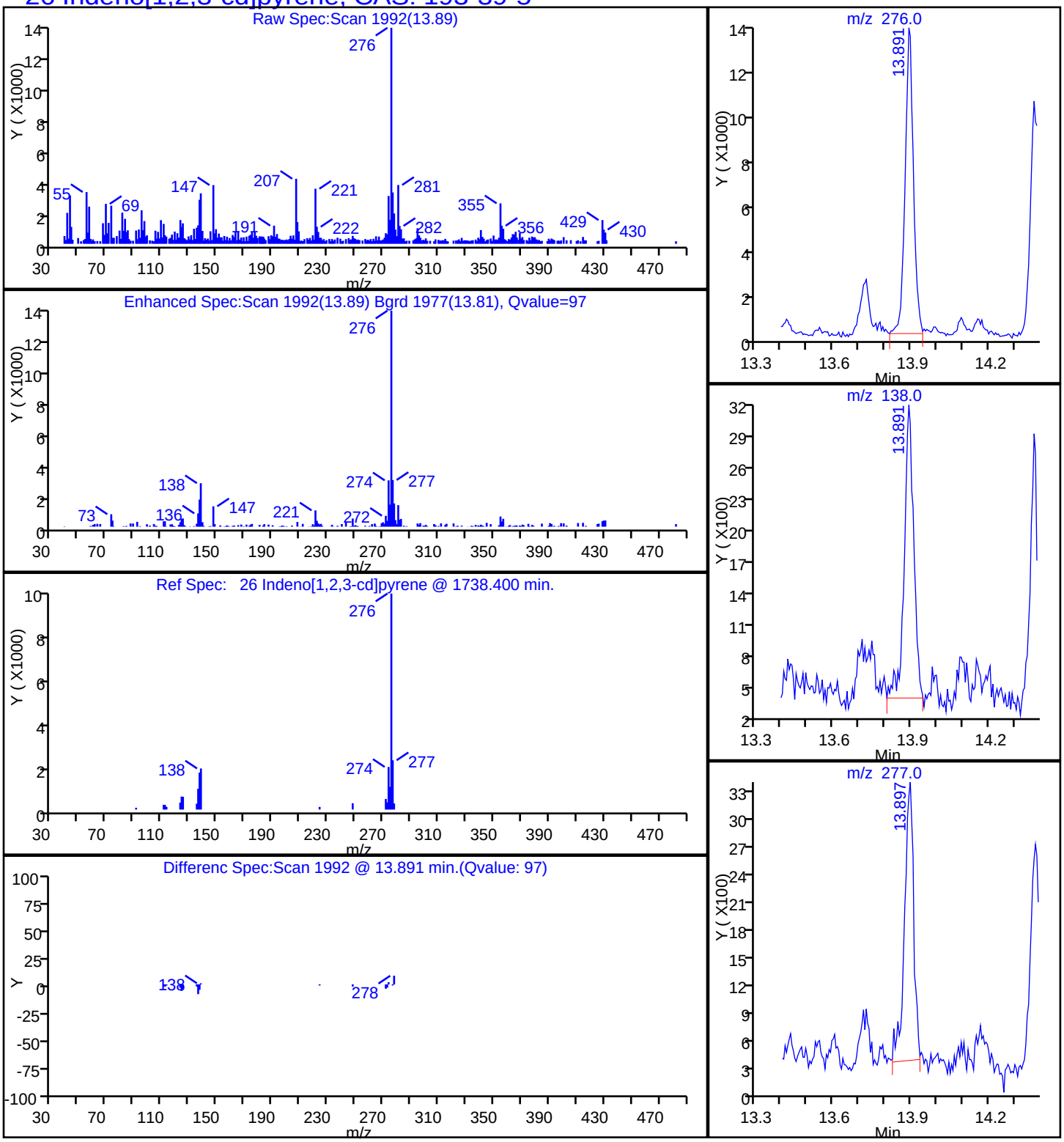


Report Date: 19-Nov-2014 08:49:47 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1727.D				
Injection Date:	18-Nov-2014 20:43:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-10-A	Lab Sample ID:	680-107159-10		
Client ID:	FM0281C-CS6"				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

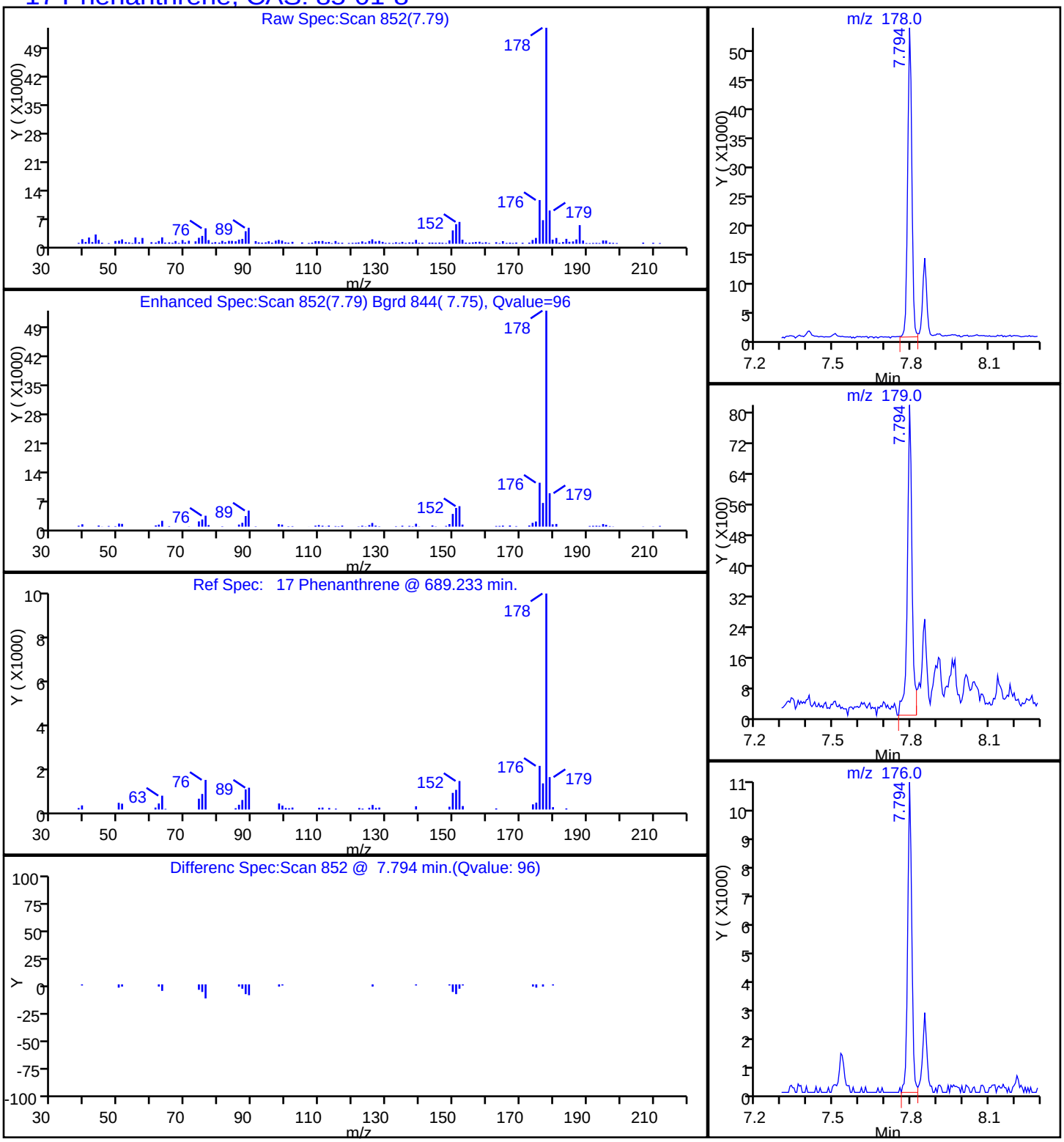


Report Date: 19-Nov-2014 08:49:46 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1727.D				
Injection Date:	18-Nov-2014 20:43:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-10-A	Lab Sample ID:	680-107159-10		
Client ID:	FM0281C-CS6"				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Phenanthrene, CAS: 85-01-8

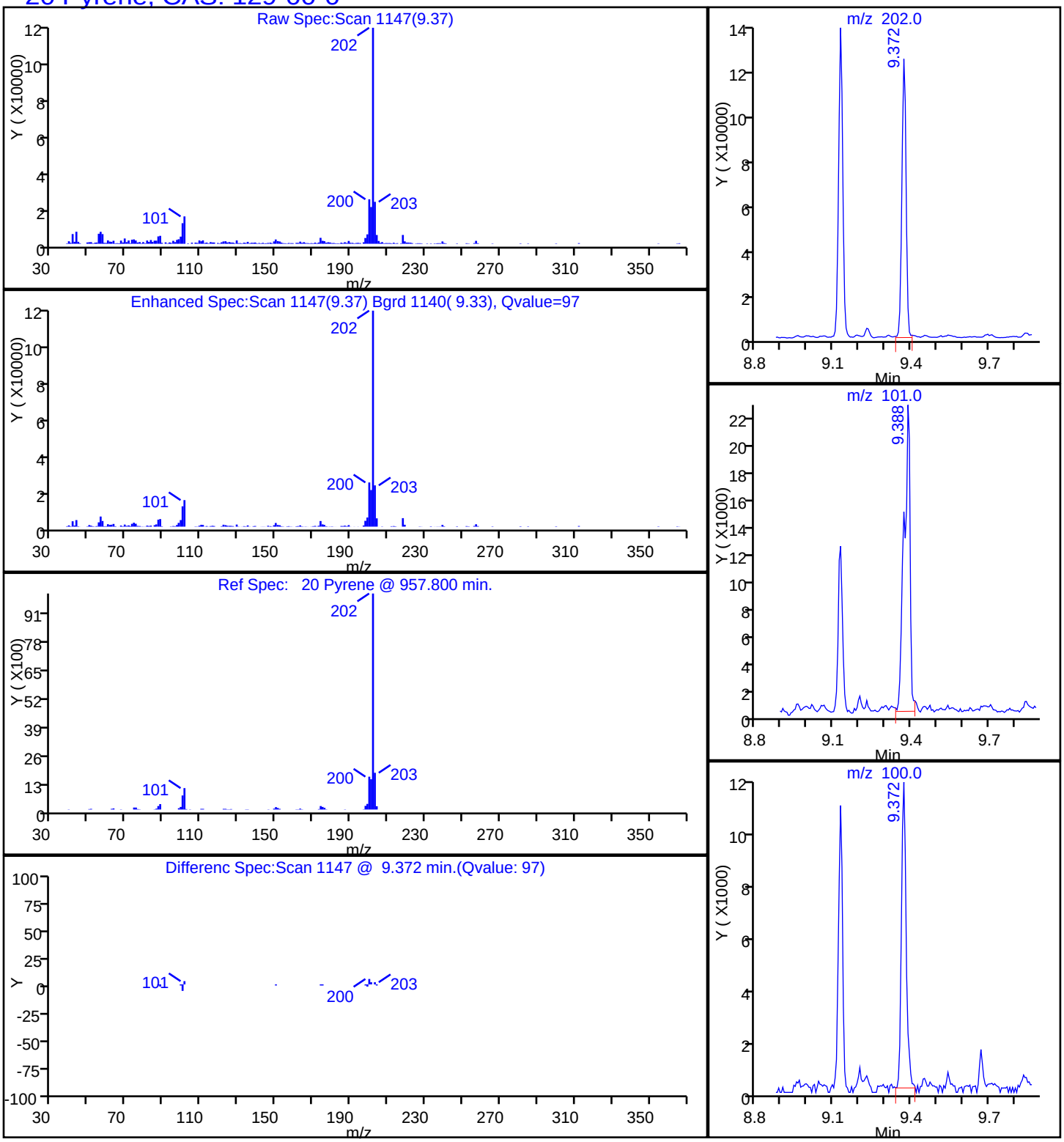


Report Date: 19-Nov-2014 08:49:47 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1727.D				
Injection Date:	18-Nov-2014 20:43:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-10-A	Lab Sample ID:	680-107159-10		
Client ID:	FM0281C-CS6"				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

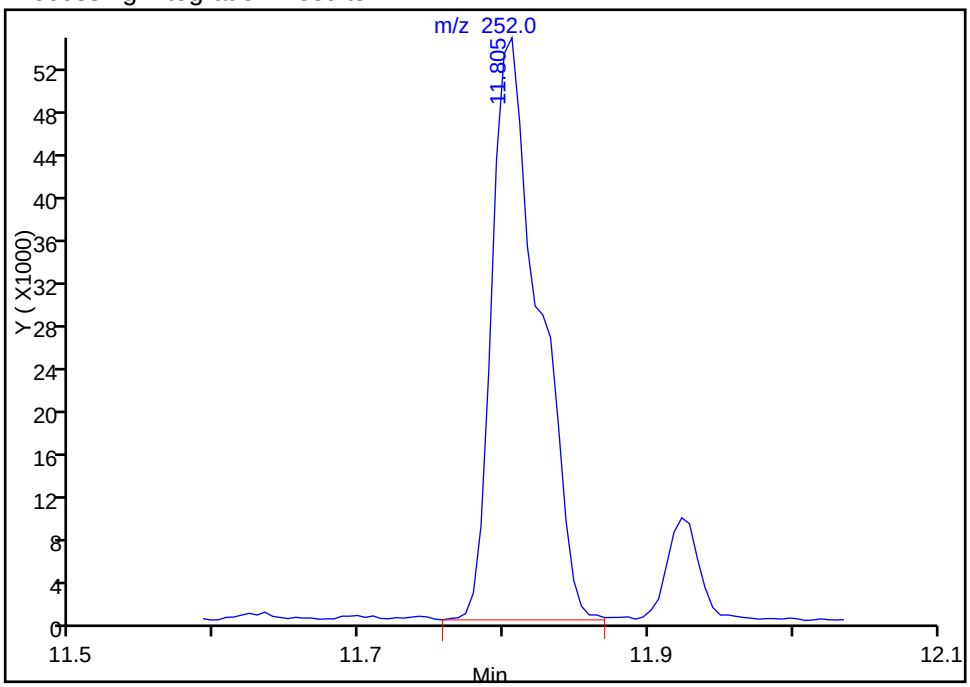
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1727.D				
Injection Date:	18-Nov-2014 20:43:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-10-A	Lab Sample ID:	680-107159-10		
Client ID:	FM0281C-CS6"				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

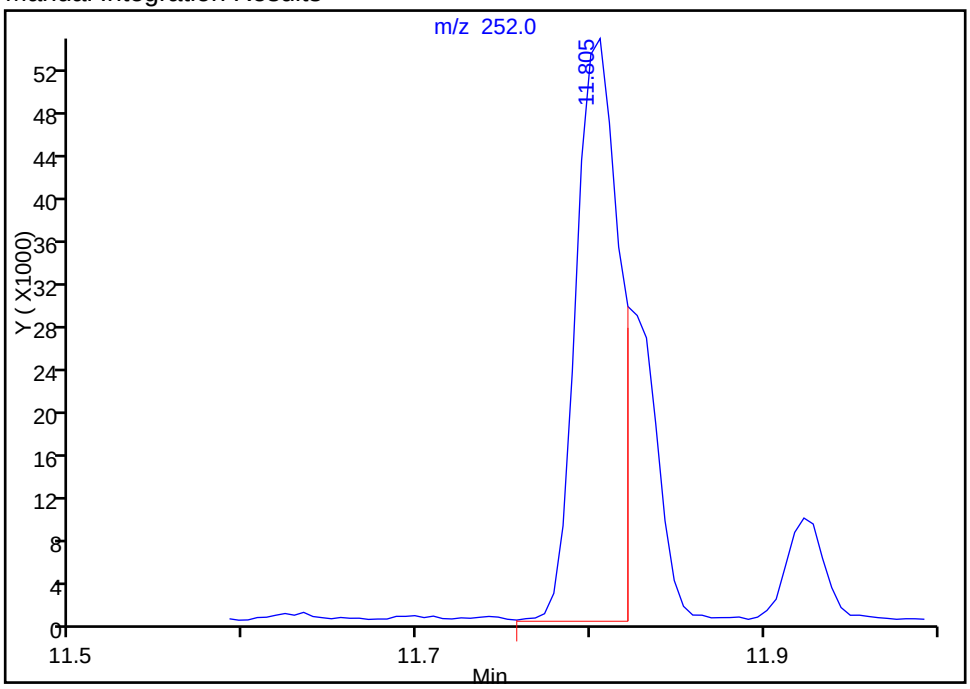
Processing Integration Results

RT: 11.81
Response: 123758
Amount: 0.891639



Manual Integration Results

RT: 11.81
Response: 95726
Amount: 0.689677



Reviewer: webbk, 19-Nov-2014 08:03:58
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

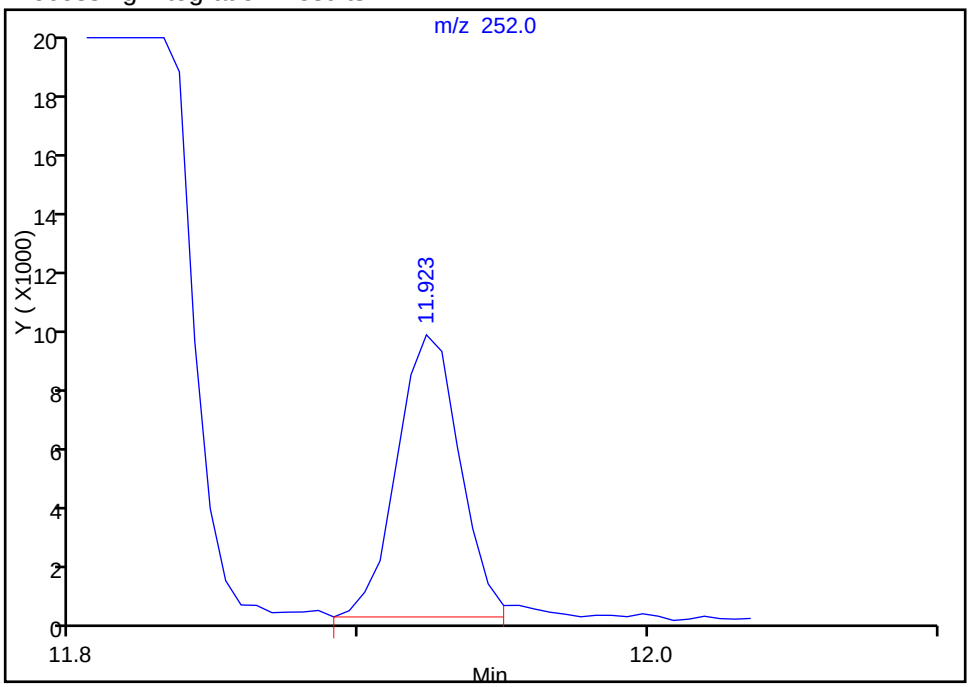
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1727.D				
Injection Date:	18-Nov-2014 20:43:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-10-A	Lab Sample ID:	680-107159-10		
Client ID:	FM0281C-CS6"				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

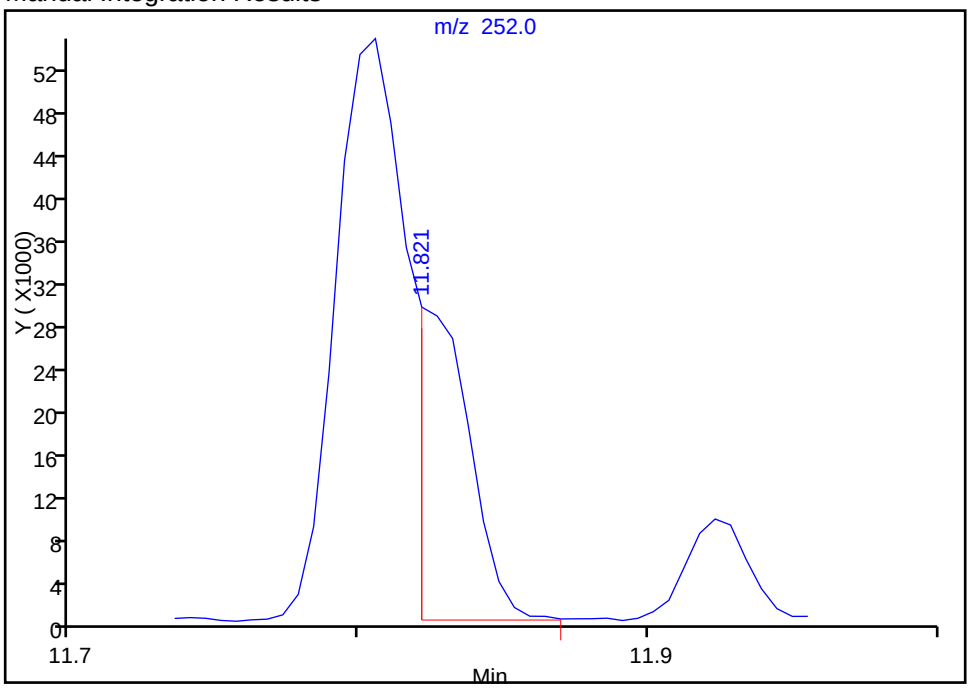
Processing Integration Results

RT: 11.92
Response: 14331
Amount: 0.096011



Manual Integration Results

RT: 11.82
Response: 37550
Amount: 0.252180



Reviewer: webbk, 19-Nov-2014 08:03:58
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281C-CS12" | Lab Sample ID: 680-107159-11

Matrix: Solid | Lab File ID: 1YK1728.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 10:40

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 29.96(g) | Date Analyzed: 11/18/2014 21:05

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 9.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	74	U	74	36
208-96-8	Acenaphthylene	74	U	74	36
120-12-7	Anthracene	74	U	74	36
56-55-3	Benzo[a]anthracene	190		74	36
50-32-8	Benzo[a]pyrene	280		74	13
205-99-2	Benzo[b]fluoranthene	460		74	36
191-24-2	Benzo[g,h,i]perylene	220		74	36
207-08-9	Benzo[k]fluoranthene	130		74	22
218-01-9	Chrysene	300		74	36
53-70-3	Dibenz(a,h)anthracene	79		74	36
206-44-0	Fluoranthene	310		74	36
86-73-7	Fluorene	74	U	74	36
193-39-5	Indeno[1,2,3-cd]pyrene	180		74	36
90-12-0	1-Methylnaphthalene	74	U	74	34
91-57-6	2-Methylnaphthalene	74	U	74	36
91-20-3	Naphthalene	74	U	74	36
85-01-8	Phenanthrene	130		74	26
129-00-0	Pyrene	330		74	36

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1728.D
Lims ID: 680-107159-B-11-A Lab Sample ID: 680-107159-11
Client ID: FM0281C-CS12"
Sample Type: Client
Inject. Date: 18-Nov-2014 21:05:30 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Sample Info: 107159-B-11-A 1:10
Misc. Info.: 680-0014871-028
Operator ID: Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 19-Nov-2014 08:10:37 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: webbk Date: 19-Nov-2014 08:04:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.259	4.264	-0.005	99	474778	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	92	276177	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	470238	2.00	
* 4 Chrysene-d12	240	10.661	10.655	0.006	99	344395	2.00	
* 5 Perylene-d12	264	12.281	12.265	0.016	98	256454	2.00	
7 Naphthalene	128	4.280	4.285	-0.005	63	22068	0.0883	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	82	14776	0.0914	
10 1-Methylnaphthalene	142	5.088	5.087	0.001	80	11533	0.0782	
12 Acenaphthylene	152	5.949	5.949	0.000	94	12724	0.0497	7
17 Phenanthrene	178	7.794	7.794	0.000	96	95677	0.3491	
18 Anthracene	178	7.853	7.853	0.000	90	17783	0.0689	
19 Fluoranthene	202	9.126	9.126	0.000	99	224822	0.8347	
20 Pyrene	202	9.372	9.372	0.000	98	189058	0.8839	
21 Benzo[a]anthracene	228	10.650	10.645	0.005	81	99117	0.5160	
22 Chrysene	228	10.688	10.682	0.006	92	137372	0.8056	
23 Benzo[b]fluoranthene	252	11.805	11.795	0.010	97	196233	1.24	M
24 Benzo[k]fluoranthene	252	11.827	11.827	0.000	59	61782	0.3649	M
25 Benzo[a]pyrene	252	12.207	12.196	0.011	96	94792	0.7549	
26 Indeno[1,2,3-cd]pyrene	276	13.897	13.870	0.027	94	74311	0.4985	
27 Dibenz(a,h)anthracene	278	13.918	13.897	0.021	57	22909	0.2158	
28 Benzo[g,h,i]perylene	276	14.389	14.357	0.032	85	69948	0.5874	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

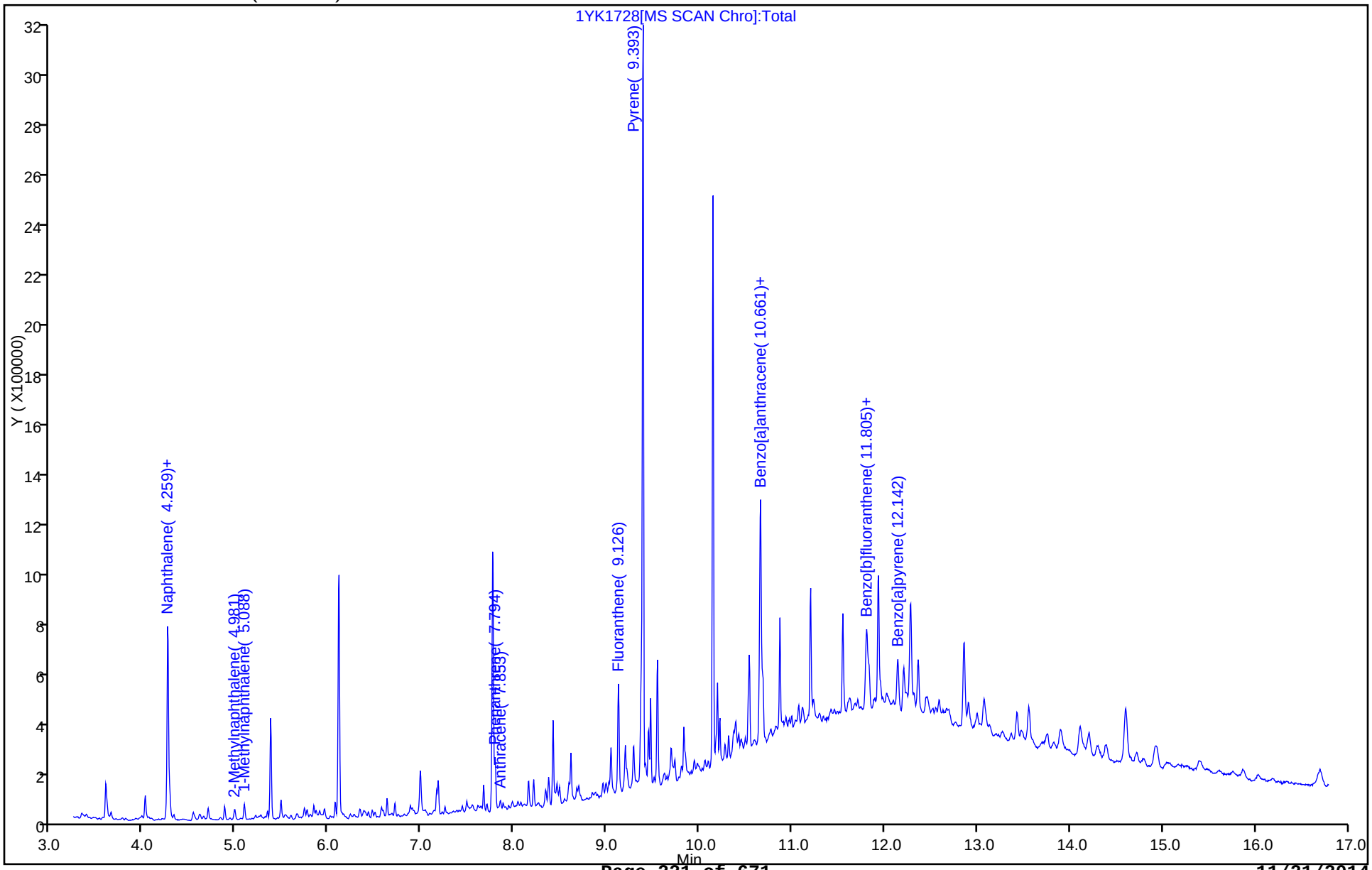
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Nov-2014 08:49:48 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1728.D				
Injection Date:	18-Nov-2014 21:05:30	Instrument ID:	CMSY	Operator ID:	
Lims ID:	680-107159-B-11-A	Lab Sample ID:	680-107159-11	Worklist Smp#:	28
Client ID:	FM0281C-CS12"				
Injection Vol:	2.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	28
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)

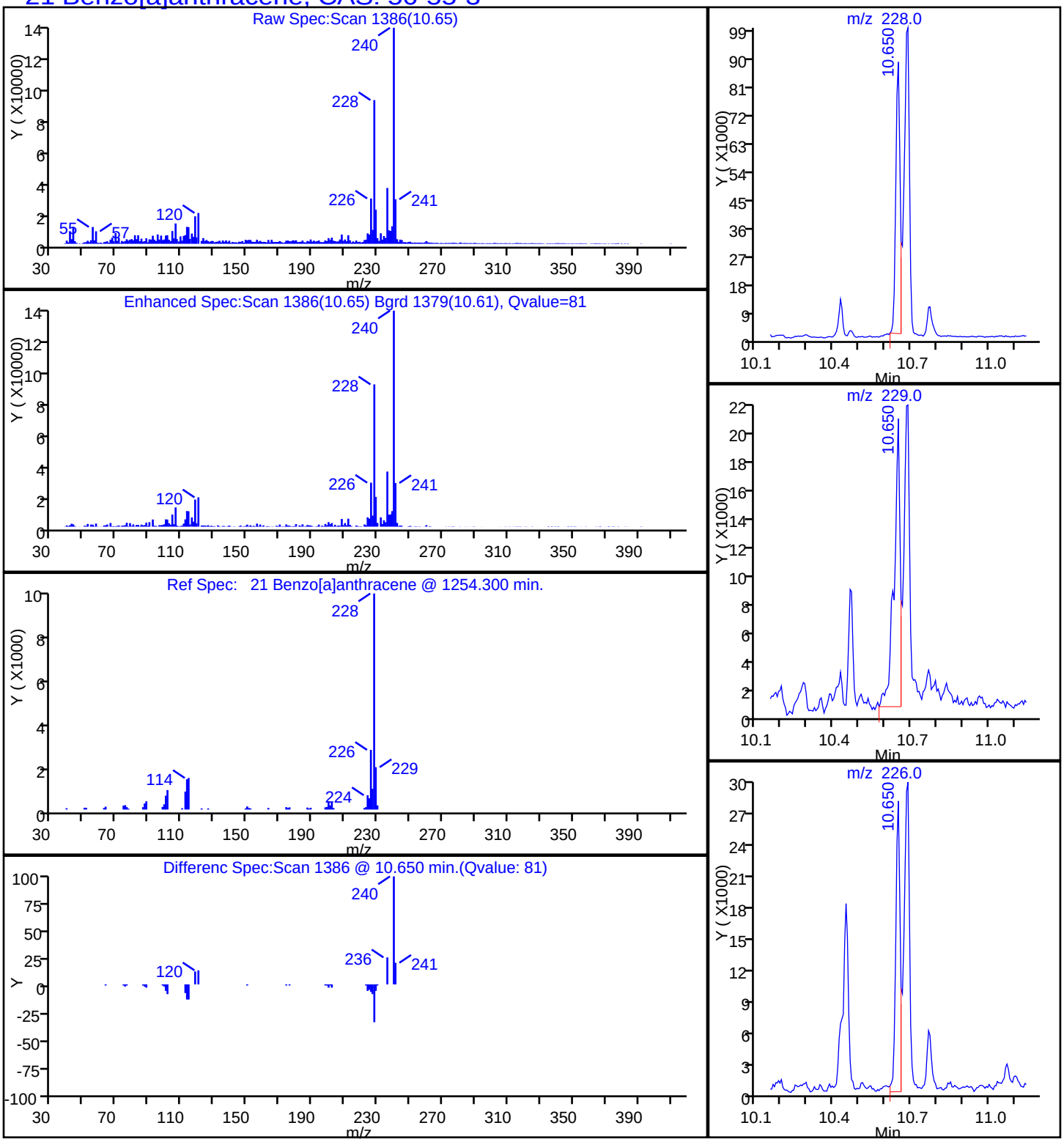


Report Date: 19-Nov-2014 08:49:48 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1728.D				
Injection Date:	18-Nov-2014 21:05:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-11-A	Lab Sample ID:	680-107159-11		
Client ID:	FM0281C-CS12"				
Operator ID:		ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

21 Benzo[a]anthracene, CAS: 56-55-3

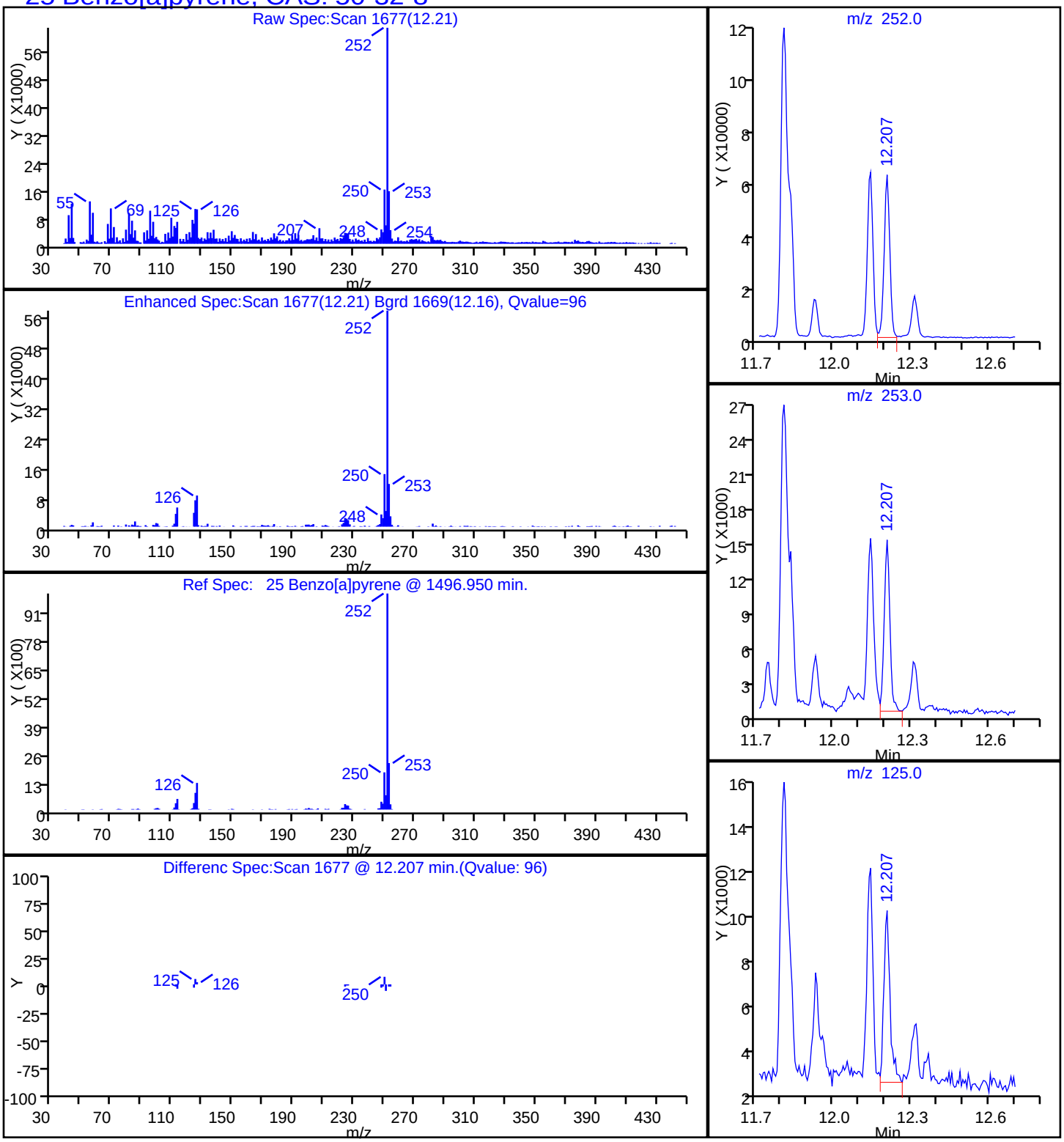


Report Date: 19-Nov-2014 08:49:48 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1728.D				
Injection Date:	18-Nov-2014 21:05:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-11-A	Lab Sample ID:	680-107159-11		
Client ID:	FM0281C-CS12"				
Operator ID:		ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

25 Benzo[a]pyrene, CAS: 50-32-8

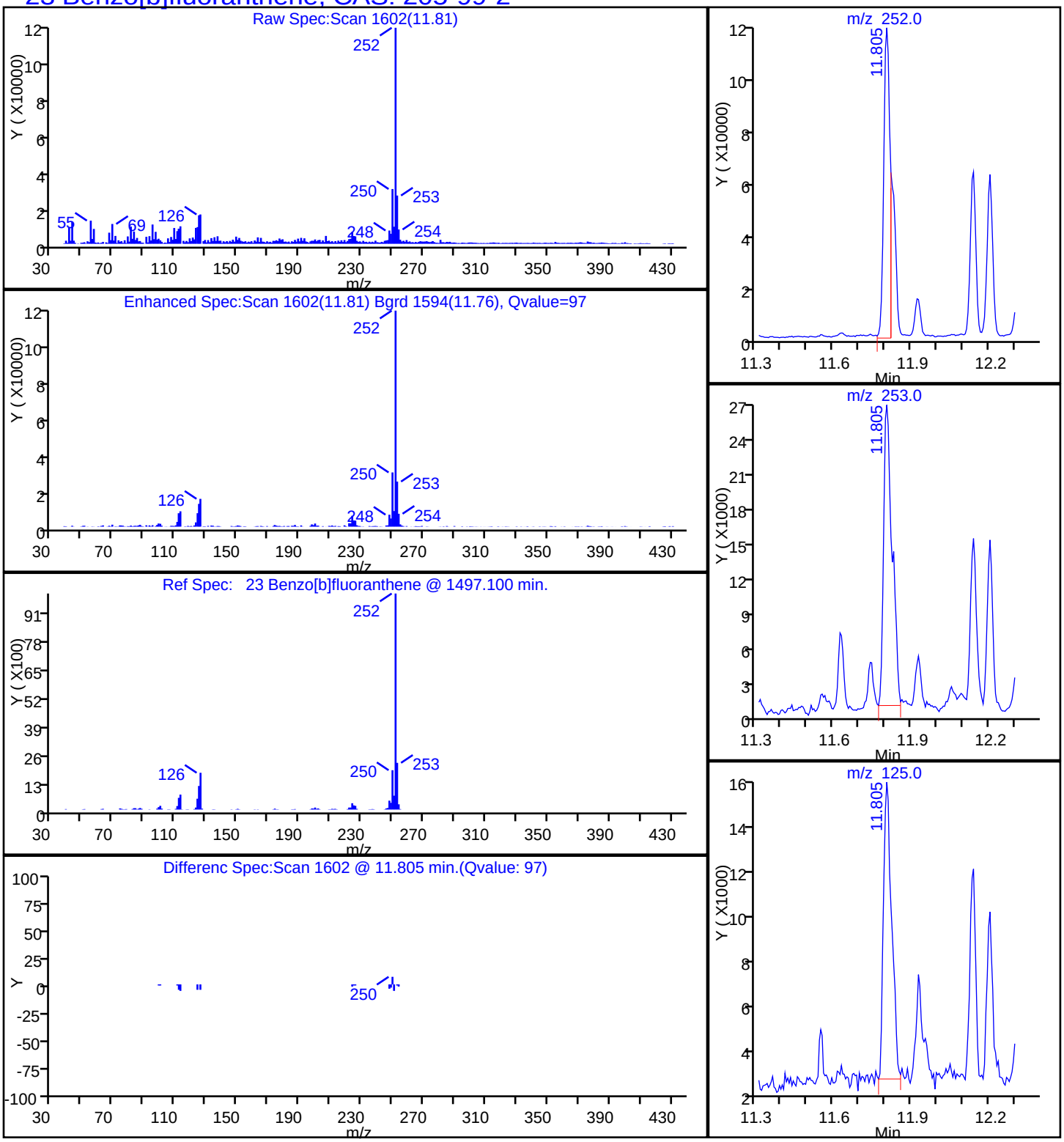


Report Date: 19-Nov-2014 08:49:48 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1728.D				
Injection Date:	18-Nov-2014 21:05:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-11-A	Lab Sample ID:	680-107159-11		
Client ID:	FM0281C-CS12"				
Operator ID:		ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

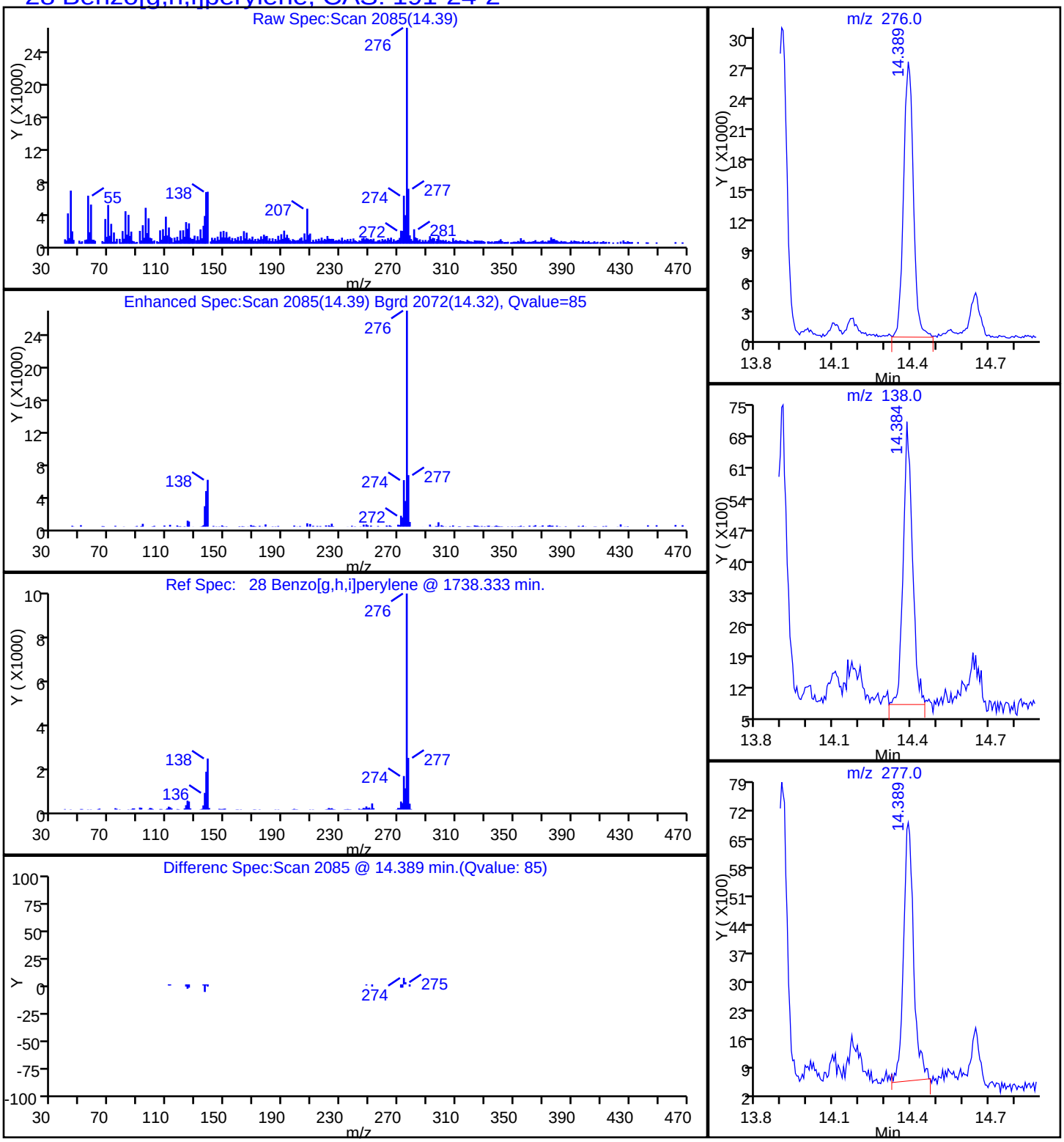


Report Date: 19-Nov-2014 08:49:48 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1728.D				
Injection Date:	18-Nov-2014 21:05:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-11-A	Lab Sample ID:	680-107159-11		
Client ID:	FM0281C-CS12"				
Operator ID:		ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

28 Benzo[g,h,i]perylene, CAS: 191-24-2

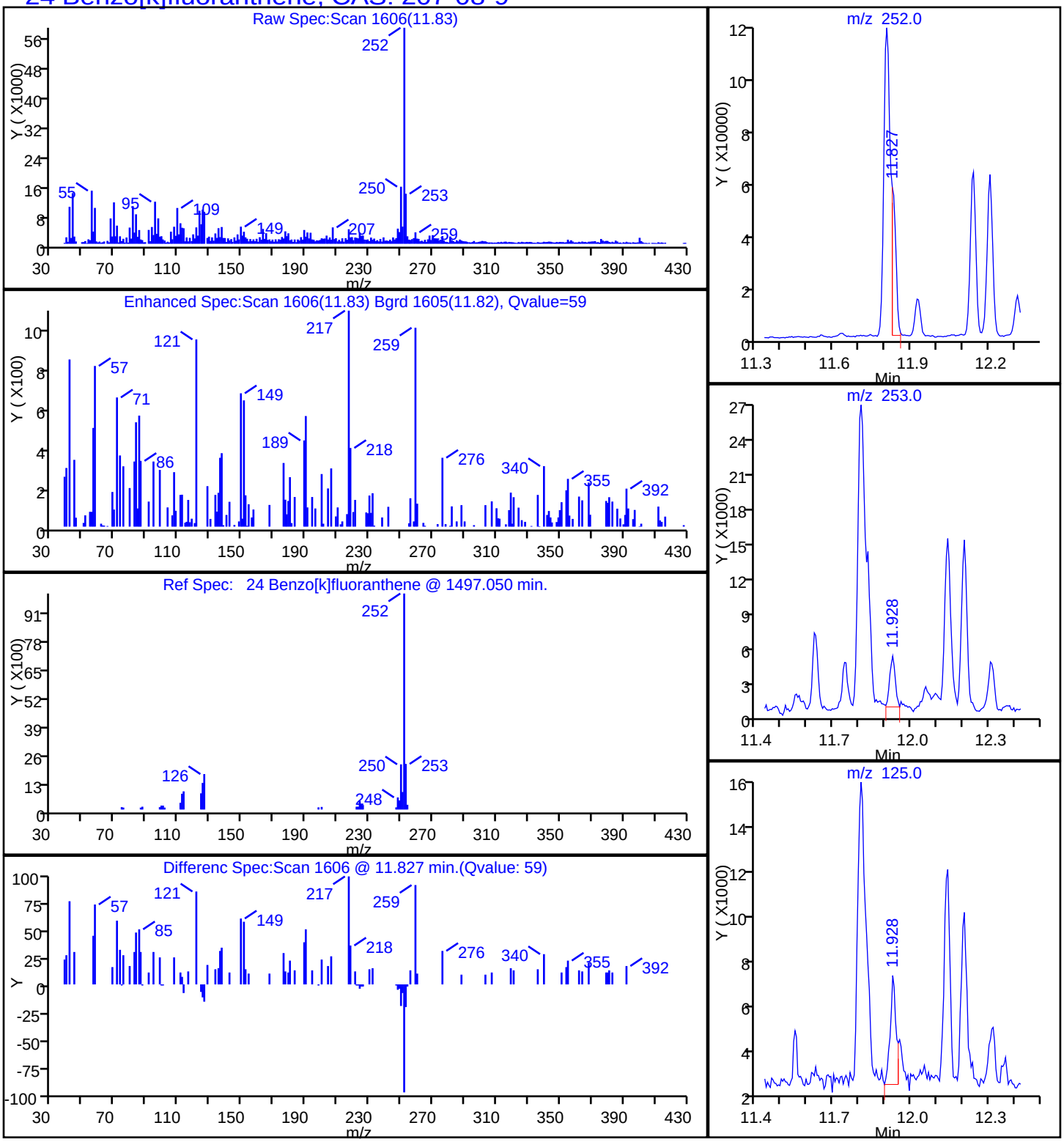


Report Date: 19-Nov-2014 08:49:48 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1728.D				
Injection Date:	18-Nov-2014 21:05:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-11-A	Lab Sample ID:	680-107159-11		
Client ID:	FM0281C-CS12"				
Operator ID:		ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

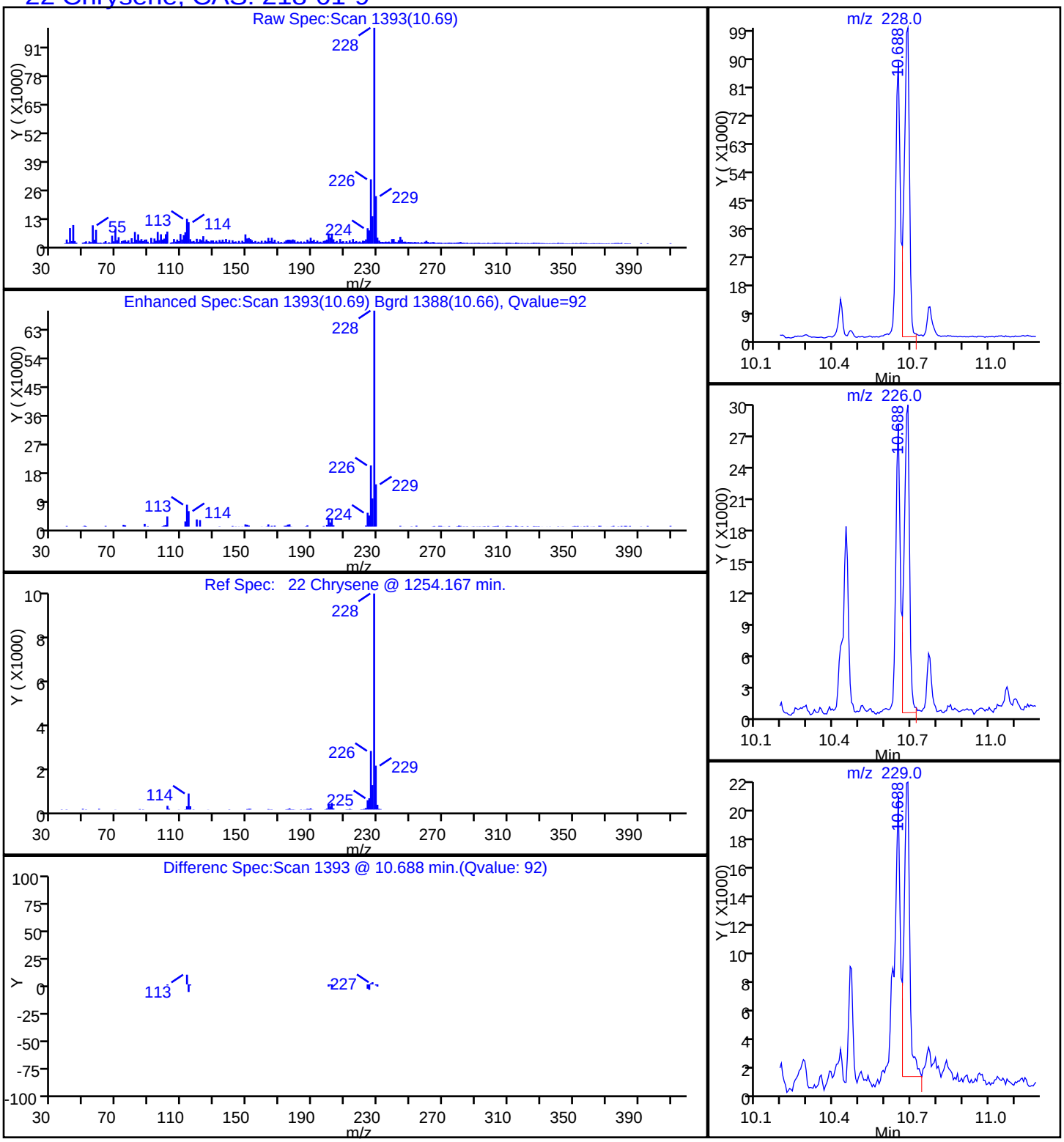


Report Date: 19-Nov-2014 08:49:48 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1728.D				
Injection Date:	18-Nov-2014 21:05:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-11-A	Lab Sample ID:	680-107159-11		
Client ID:	FM0281C-CS12"				
Operator ID:		ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Chrysene, CAS: 218-01-9

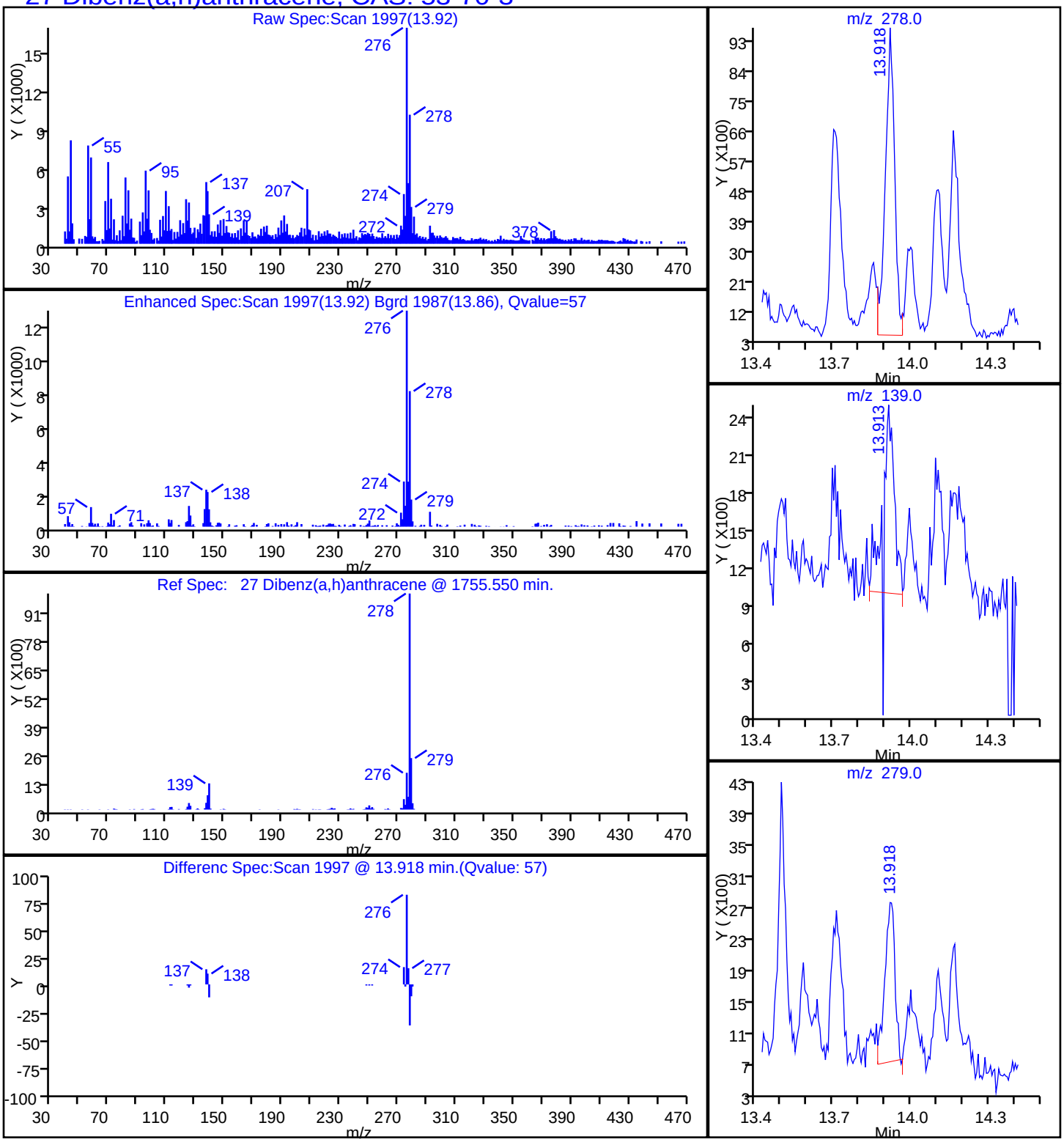


Report Date: 19-Nov-2014 08:49:48 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1728.D				
Injection Date:	18-Nov-2014 21:05:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-11-A	Lab Sample ID:	680-107159-11		
Client ID:	FM0281C-CS12"				
Operator ID:		ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

27 Dibenz(a,h)anthracene, CAS: 53-70-3

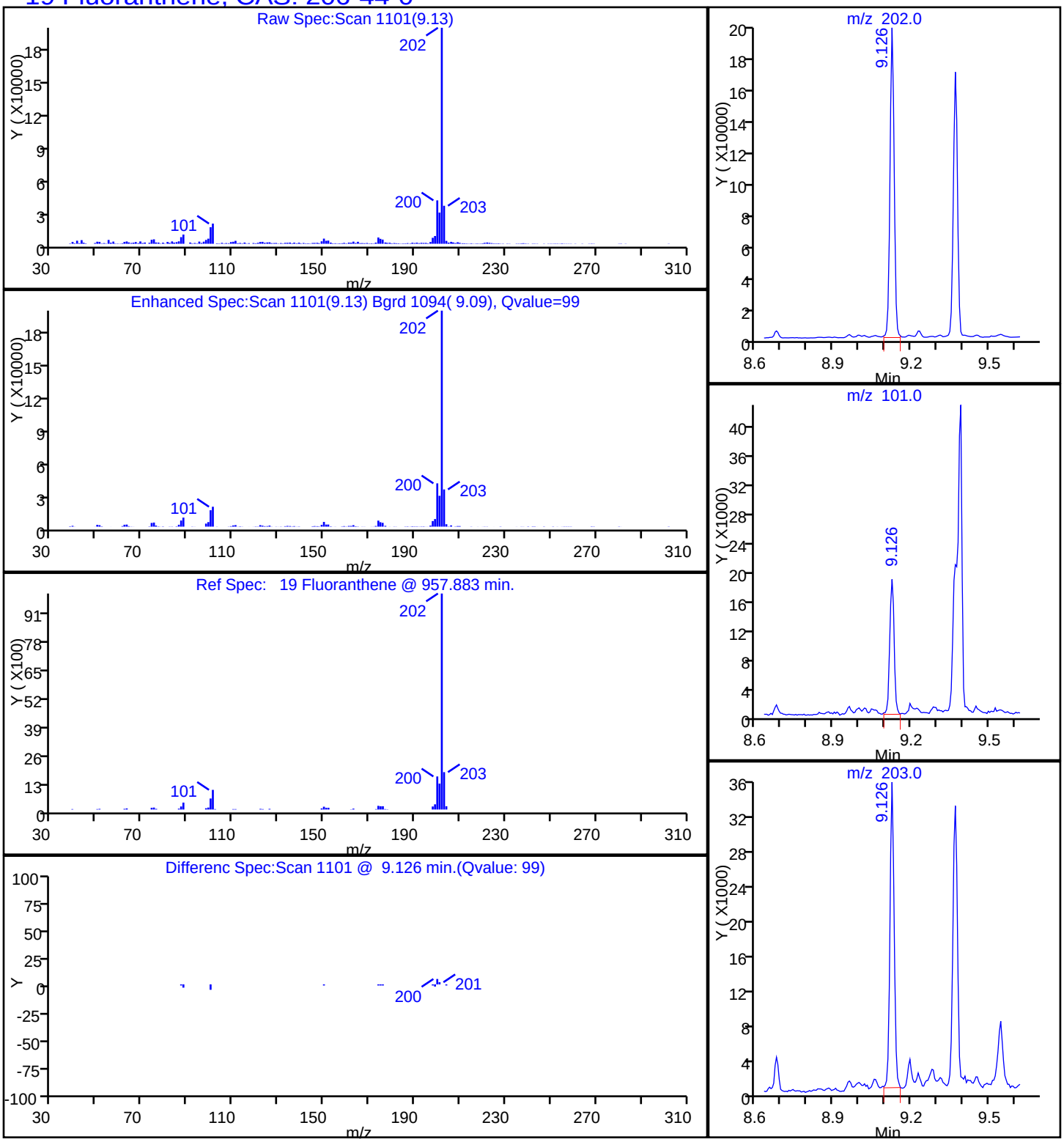


Report Date: 19-Nov-2014 08:49:48 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1728.D				
Injection Date:	18-Nov-2014 21:05:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-11-A	Lab Sample ID:	680-107159-11		
Client ID:	FM0281C-CS12"				
Operator ID:		ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 Fluoranthene, CAS: 206-44-0

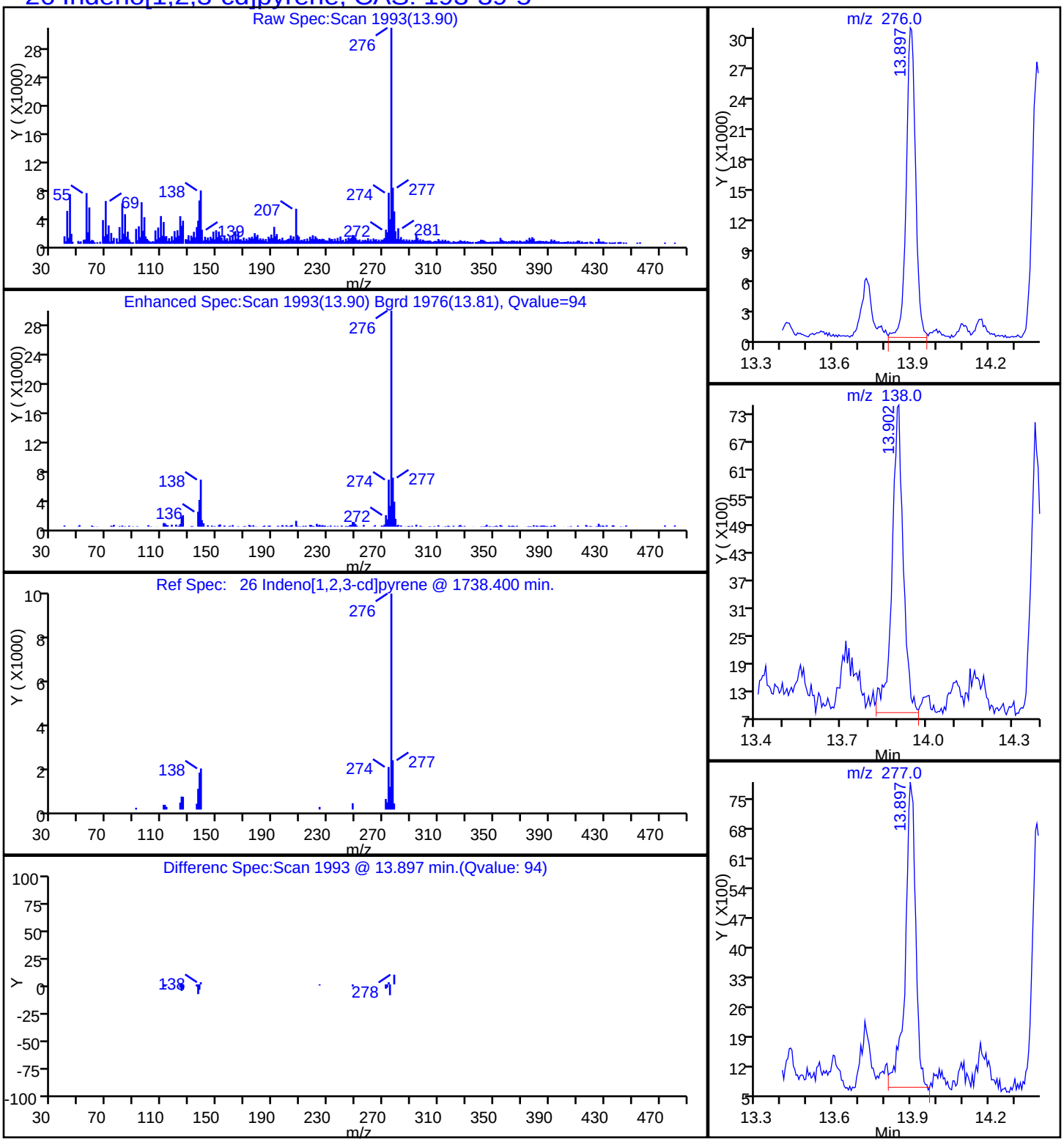


Report Date: 19-Nov-2014 08:49:48 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1728.D				
Injection Date:	18-Nov-2014 21:05:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-11-A	Lab Sample ID:	680-107159-11		
Client ID:	FM0281C-CS12"				
Operator ID:		ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

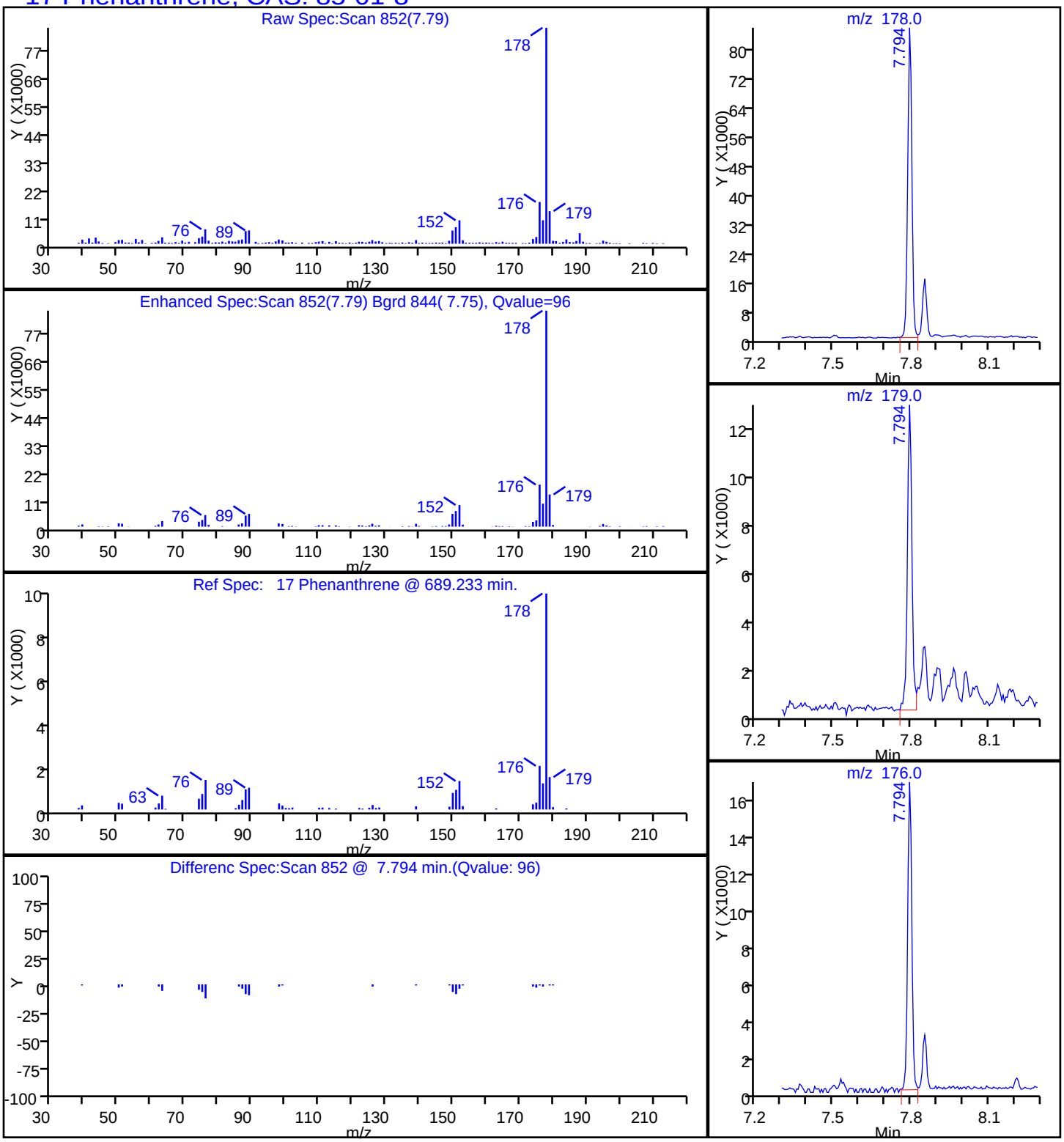


Report Date: 19-Nov-2014 08:49:48 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1728.D				
Injection Date:	18-Nov-2014 21:05:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-11-A	Lab Sample ID:	680-107159-11		
Client ID:	FM0281C-CS12"				
Operator ID:		ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Phenanthrene, CAS: 85-01-8

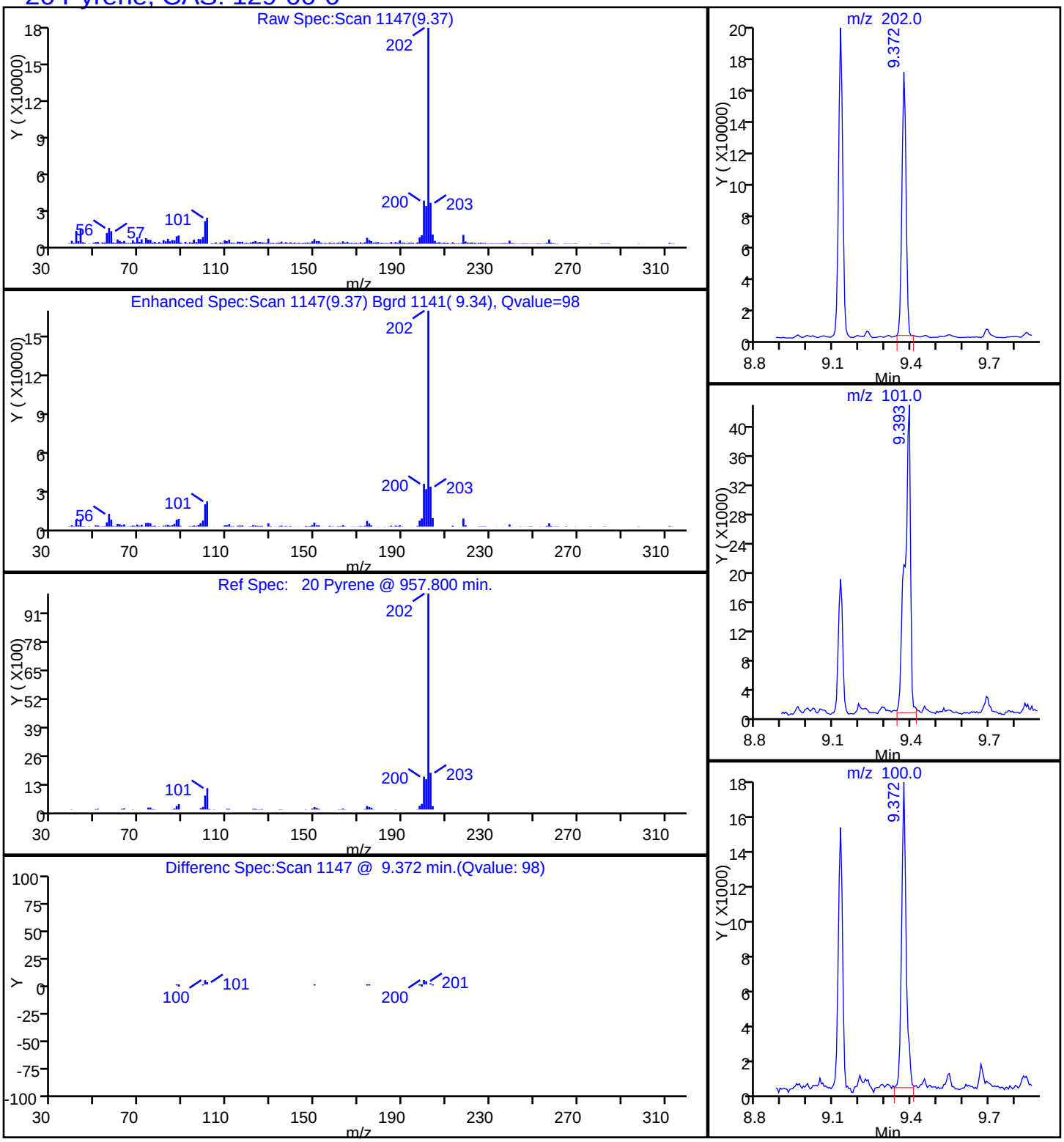


Report Date: 19-Nov-2014 08:49:48 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1728.D				
Injection Date:	18-Nov-2014 21:05:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-11-A	Lab Sample ID:	680-107159-11		
Client ID:	FM0281C-CS12"				
Operator ID:		ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

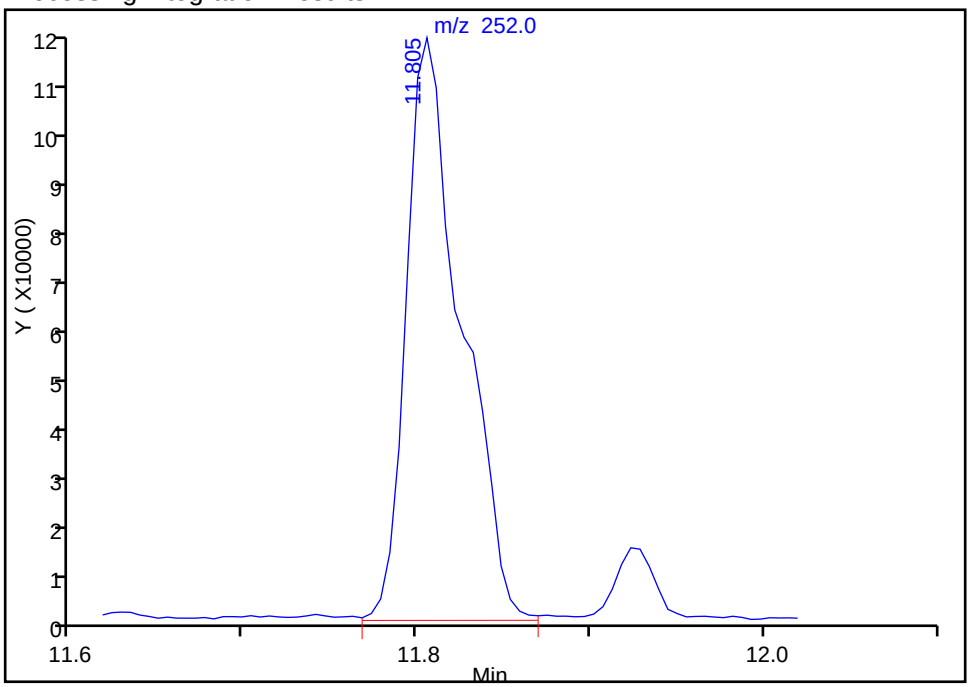
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1728.D				
Injection Date:	18-Nov-2014 21:05:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-11-A	Lab Sample ID:	680-107159-11		
Client ID:	FM0281C-CS12"				
Operator ID:		ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

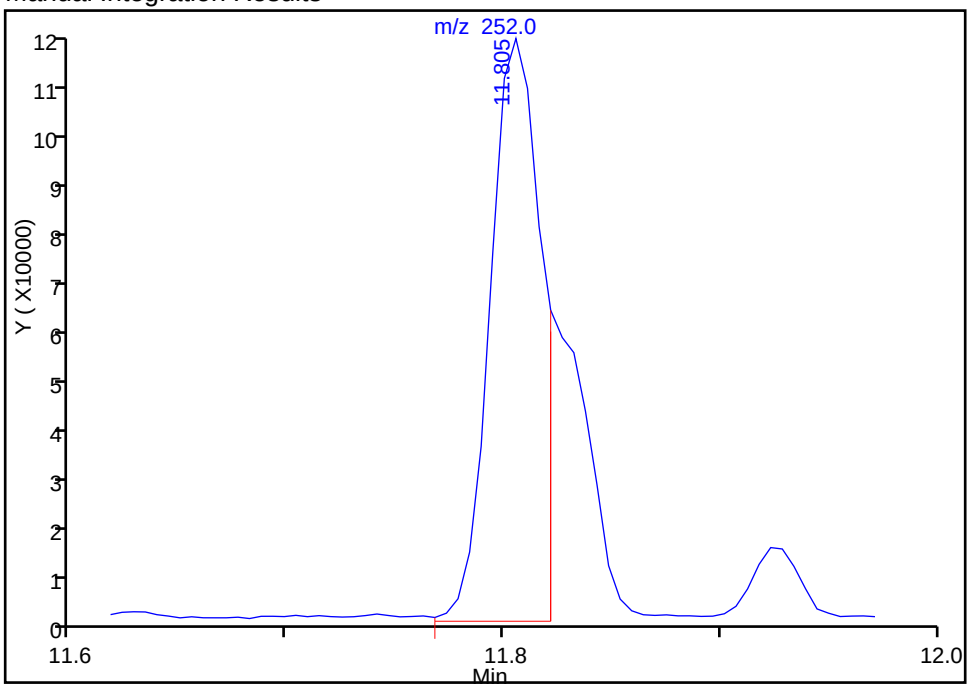
Processing Integration Results

RT: 11.81
Response: 259739
Amount: 1.642909



Manual Integration Results

RT: 11.81
Response: 196233
Amount: 1.241219



Reviewer: webbk, 19-Nov-2014 08:04:59
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

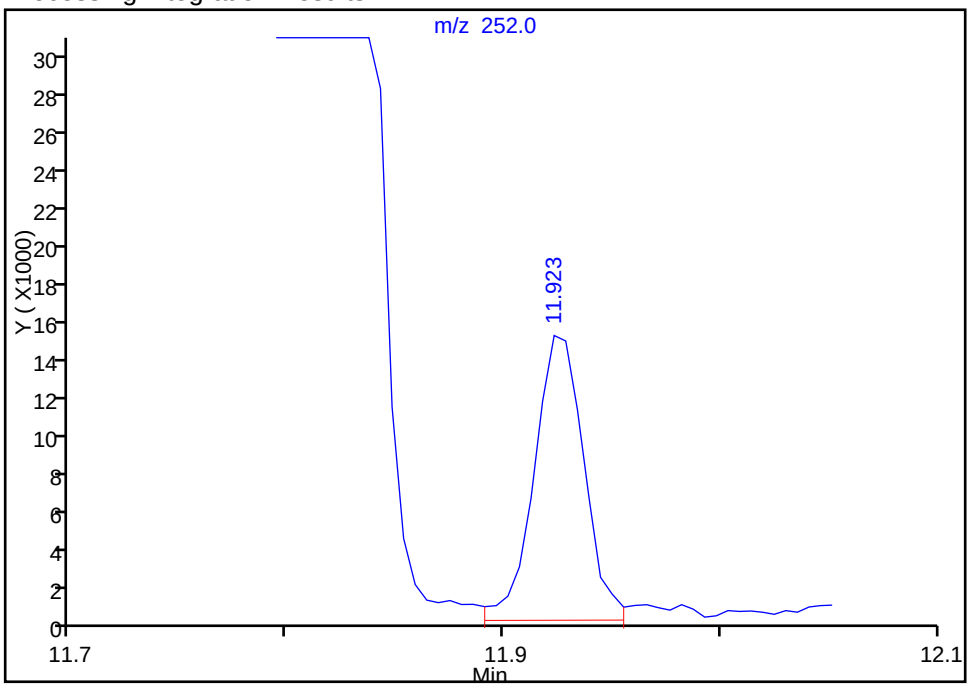
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1728.D				
Injection Date:	18-Nov-2014 21:05:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-11-A	Lab Sample ID:	680-107159-11		
Client ID:	FM0281C-CS12"				
Operator ID:		ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

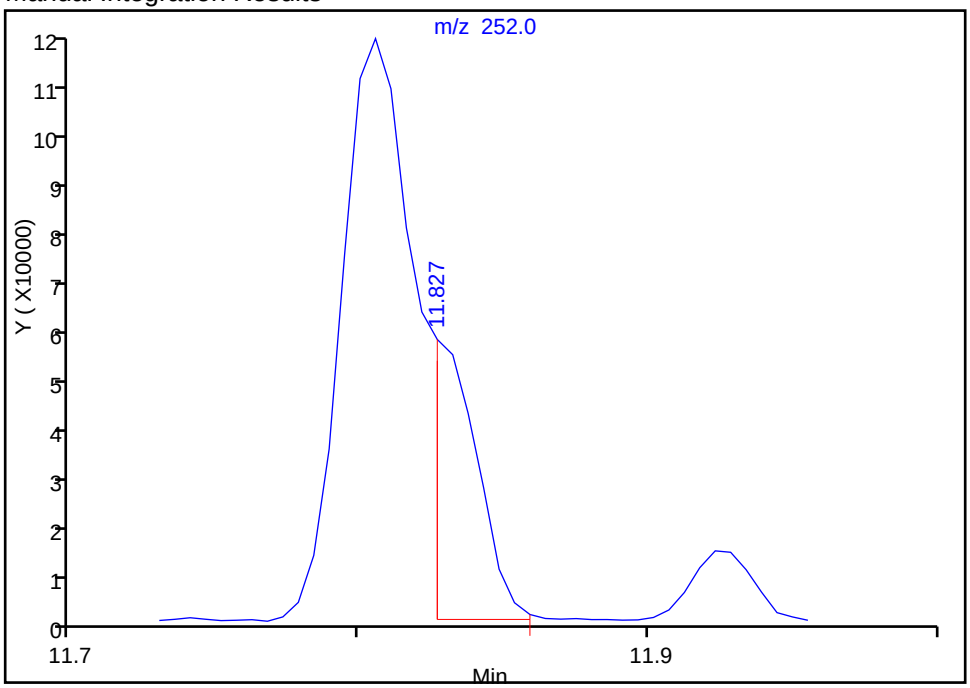
Processing Integration Results

RT: 11.92
Response: 23611
Amount: 0.138967



Manual Integration Results

RT: 11.83
Response: 61782
Amount: 0.364911



Reviewer: webbk, 19-Nov-2014 08:04:59
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281C-CS18" | Lab Sample ID: 680-107159-12

Matrix: Solid | Lab File ID: 1YK1717.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 10:50

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.03(g) | Date Analyzed: 11/18/2014 16:59

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	73	U	73	36
208-96-8	Acenaphthylene	73	U	73	36
120-12-7	Anthracene	73	U	73	36
56-55-3	Benzo[a]anthracene	73		73	36
50-32-8	Benzo[a]pyrene	100		73	13
205-99-2	Benzo[b]fluoranthene	170		73	36
191-24-2	Benzo[g,h,i]perylene	100		73	36
207-08-9	Benzo[k]fluoranthene	59	J	73	22
218-01-9	Chrysene	110		73	36
53-70-3	Dibenz(a,h)anthracene	73	U	73	36
206-44-0	Fluoranthene	140		73	36
86-73-7	Fluorene	73	U	73	36
193-39-5	Indeno[1,2,3-cd]pyrene	67	J	73	36
90-12-0	1-Methylnaphthalene	73	U	73	34
91-57-6	2-Methylnaphthalene	73	U	73	36
91-20-3	Naphthalene	73	U	73	36
85-01-8	Phenanthrene	81		73	26
129-00-0	Pyrene	140		73	36

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1717.D				
Lims ID:	680-107159-B-12-A	Lab Sample ID:	680-107159-12		
Client ID:	FM0281C-CS18"				
Sample Type:	Client				
Inject. Date:	18-Nov-2014 16:59:30	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Sample Info:	107159-B-12-A 1:10				
Misc. Info.:	680-0014871-017				
Operator ID:		Instrument ID:	CMSY		

Method:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m		
Limit Group:	8270D_LL_PAH		
Last Update:	19-Nov-2014 08:10:37	Calib Date:	18-Nov-2014 13:33:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D		

Column 1 :	Restek RXi-5Sil MS (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK051	

First Level Reviewer: webbk Date: 19-Nov-2014 07:53:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.264	4.264	0.000	99	557305	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	93	315691	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	550578	2.00	
* 4 Chrysene-d12	240	10.655	10.655	0.000	99	432965	2.00	
* 5 Perylene-d12	264	12.271	12.265	0.006	99	300647	2.00	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	81	9297	0.0490	7
10 1-Methylnaphthalene	142	5.087	5.087	0.000	77	7669	0.0443	7
17 Phenanthrene	178	7.794	7.794	0.000	97	71985	0.2241	
18 Anthracene	178	7.847	7.853	-0.006	92	9361	0.0310	7
19 Fluoranthene	202	9.120	9.126	-0.006	98	124988	0.3963	
20 Pyrene	202	9.366	9.372	-0.006	97	103602	0.3845	
21 Benzo[a]anthracene	228	10.645	10.645	0.000	97	48309	0.2001	
22 Chrysene	228	10.677	10.682	-0.005	99	66683	0.3108	
23 Benzo[b]fluoranthene	252	11.795	11.795	0.000	98	87358	0.4713	M
24 Benzo[k]fluoranthene	252	11.816	11.827	-0.011	98	32448	0.1630	M
25 Benzo[a]pyrene	252	12.196	12.196	0.000	97	40889	0.2778	
26 Indeno[1,2,3-cd]pyrene	276	13.881	13.870	0.011	99	34747	0.1854	
28 Benzo[g,h,i]perylene	276	14.367	14.357	0.010	98	39419	0.2824	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

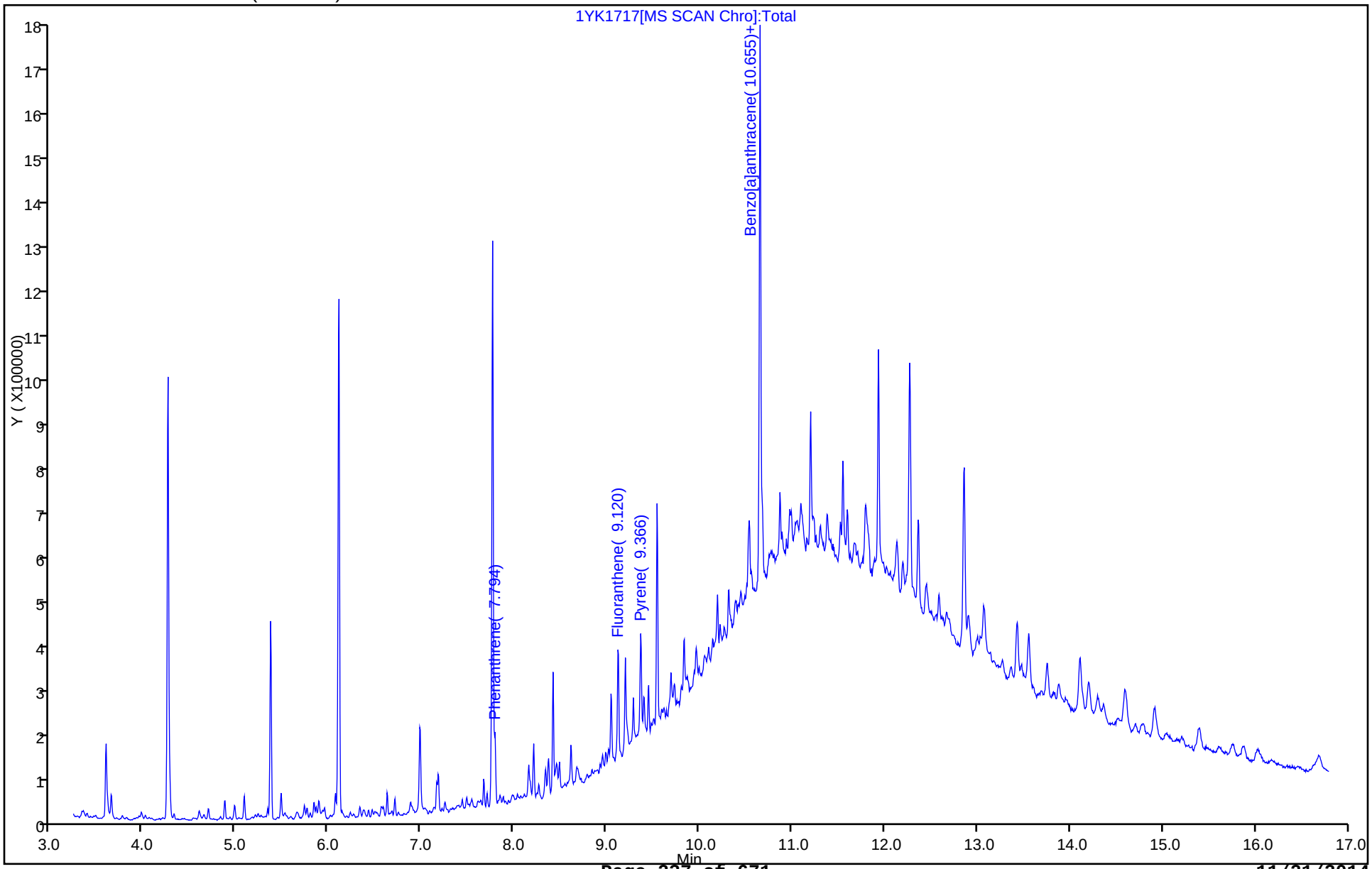
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Nov-2014 08:49:57 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1717.D				
Injection Date:	18-Nov-2014 16:59:30	Instrument ID:	CMSY	Operator ID:	
Lims ID:	680-107159-B-12-A	Lab Sample ID:	680-107159-12	Worklist Smp#:	17
Client ID:	FM0281C-CS18"				
Injection Vol:	2.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	17
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)

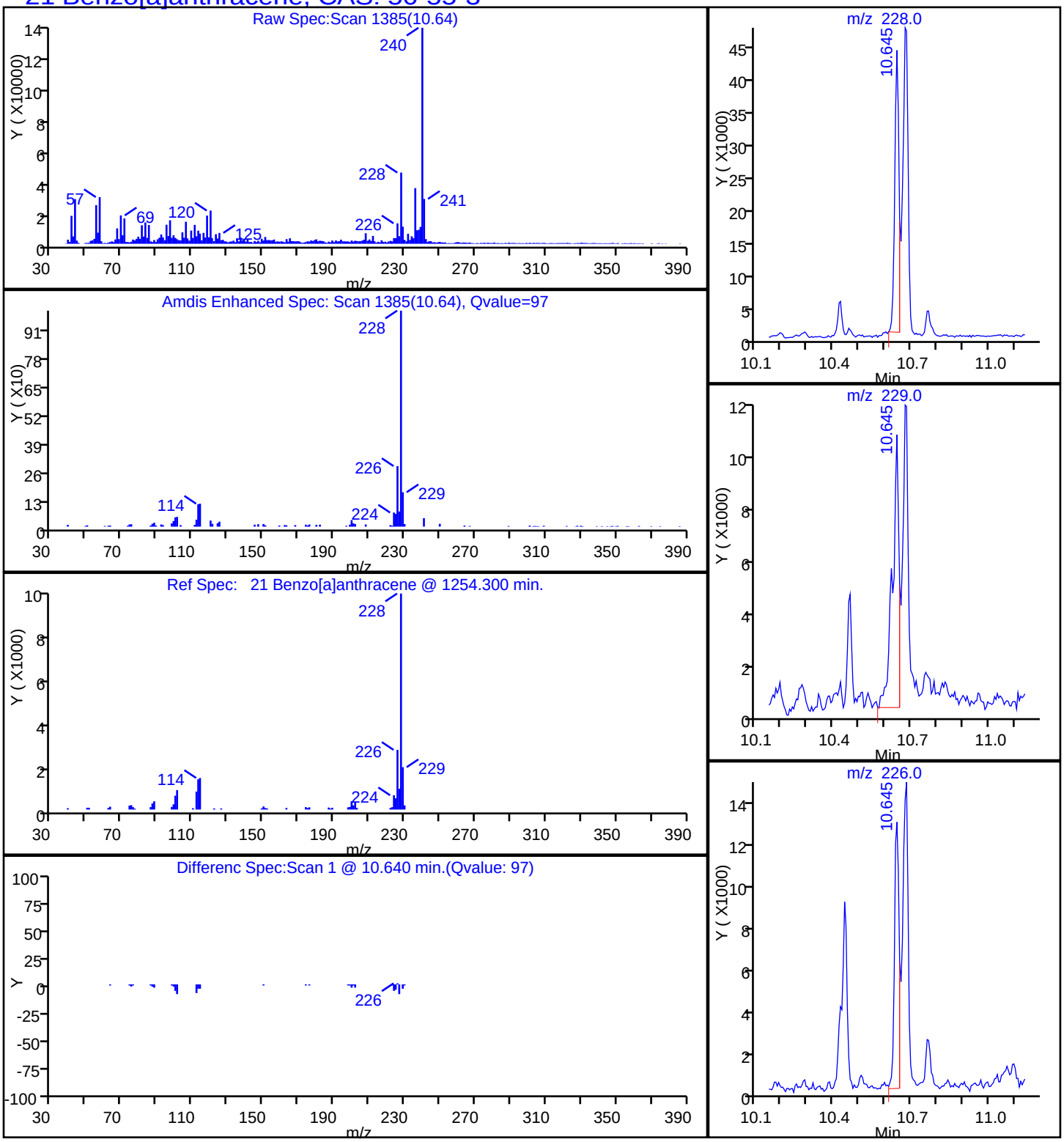


Report Date: 19-Nov-2014 08:49:57 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1717.D				
Injection Date:	18-Nov-2014 16:59:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-12-A	Lab Sample ID:	680-107159-12		
Client ID:	FM0281C-CS18"				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

21 Benzo[a]anthracene, CAS: 56-55-3

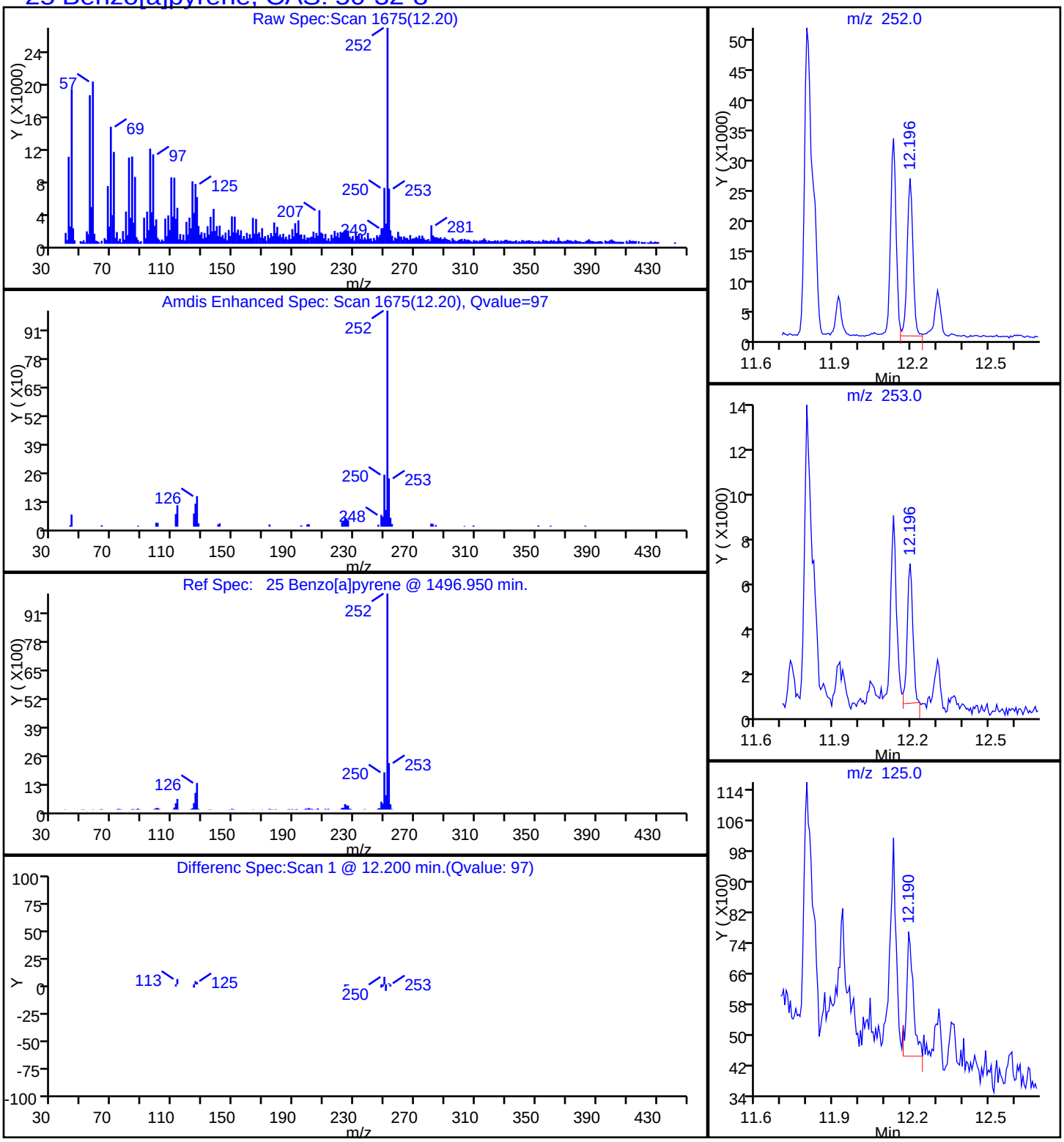


Report Date: 19-Nov-2014 08:49:58 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1717.D				
Injection Date:	18-Nov-2014 16:59:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-12-A	Lab Sample ID:	680-107159-12		
Client ID:	FM0281C-CS18"				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

25 Benzo[a]pyrene, CAS: 50-32-8

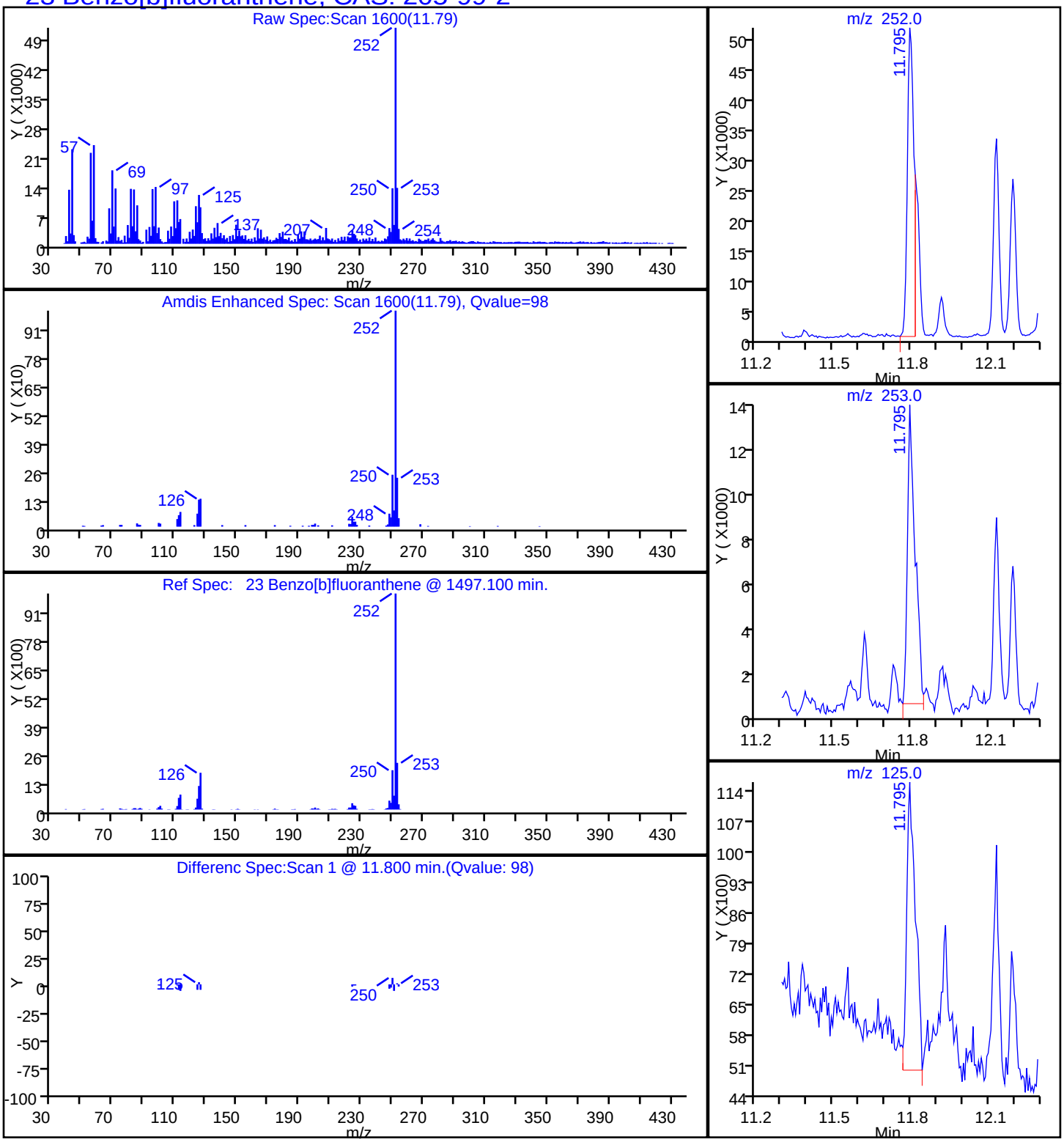


Report Date: 19-Nov-2014 08:49:57 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1717.D				
Injection Date:	18-Nov-2014 16:59:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-12-A	Lab Sample ID:	680-107159-12		
Client ID:	FM0281C-CS18"				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

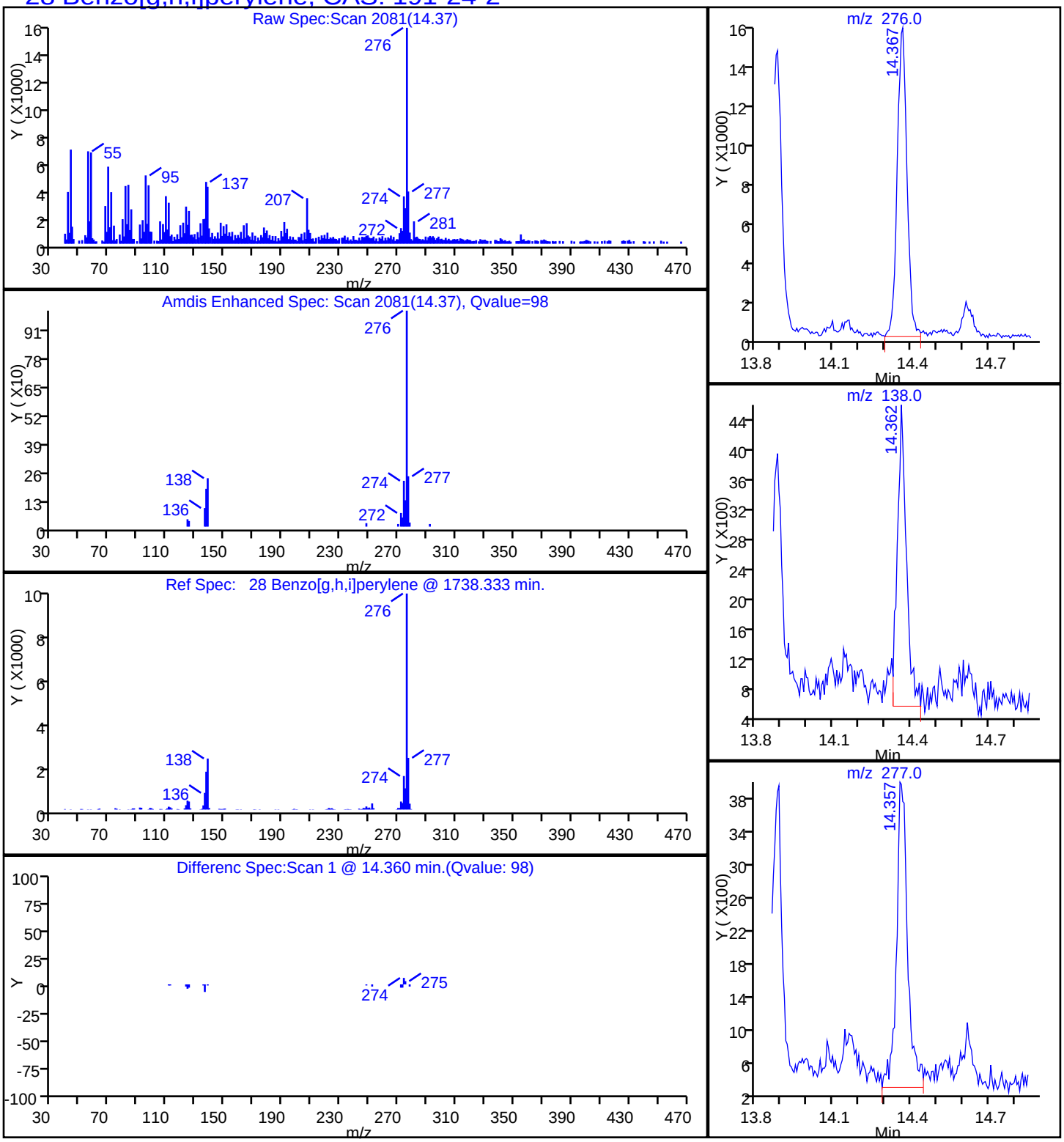


Report Date: 19-Nov-2014 08:49:58 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1717.D				
Injection Date:	18-Nov-2014 16:59:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-12-A	Lab Sample ID:	680-107159-12		
Client ID:	FM0281C-CS18"				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

28 Benzo[g,h,i]perylene, CAS: 191-24-2

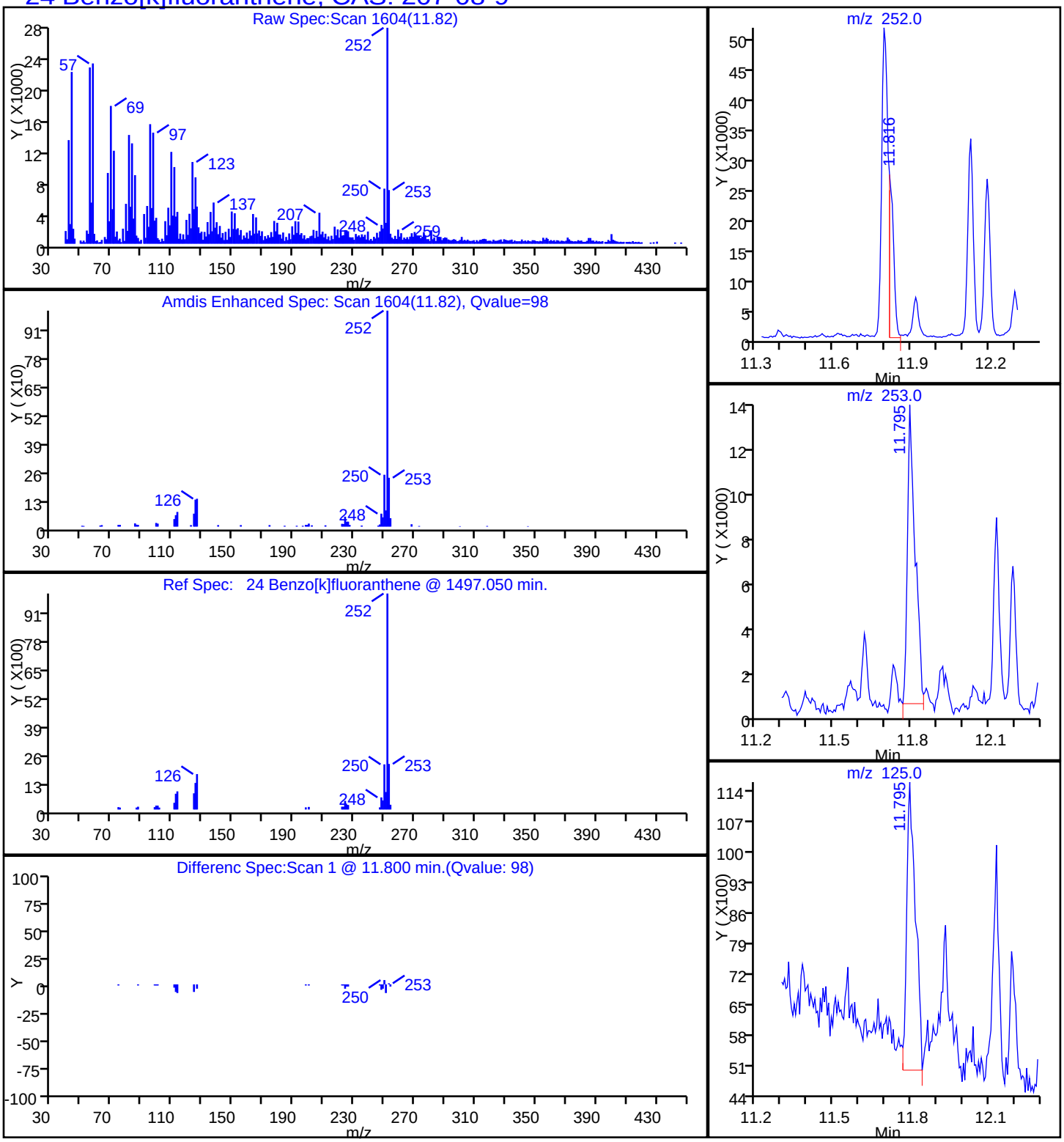


Report Date: 19-Nov-2014 08:49:58 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1717.D				
Injection Date:	18-Nov-2014 16:59:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-12-A	Lab Sample ID:	680-107159-12		
Client ID:	FM0281C-CS18"				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

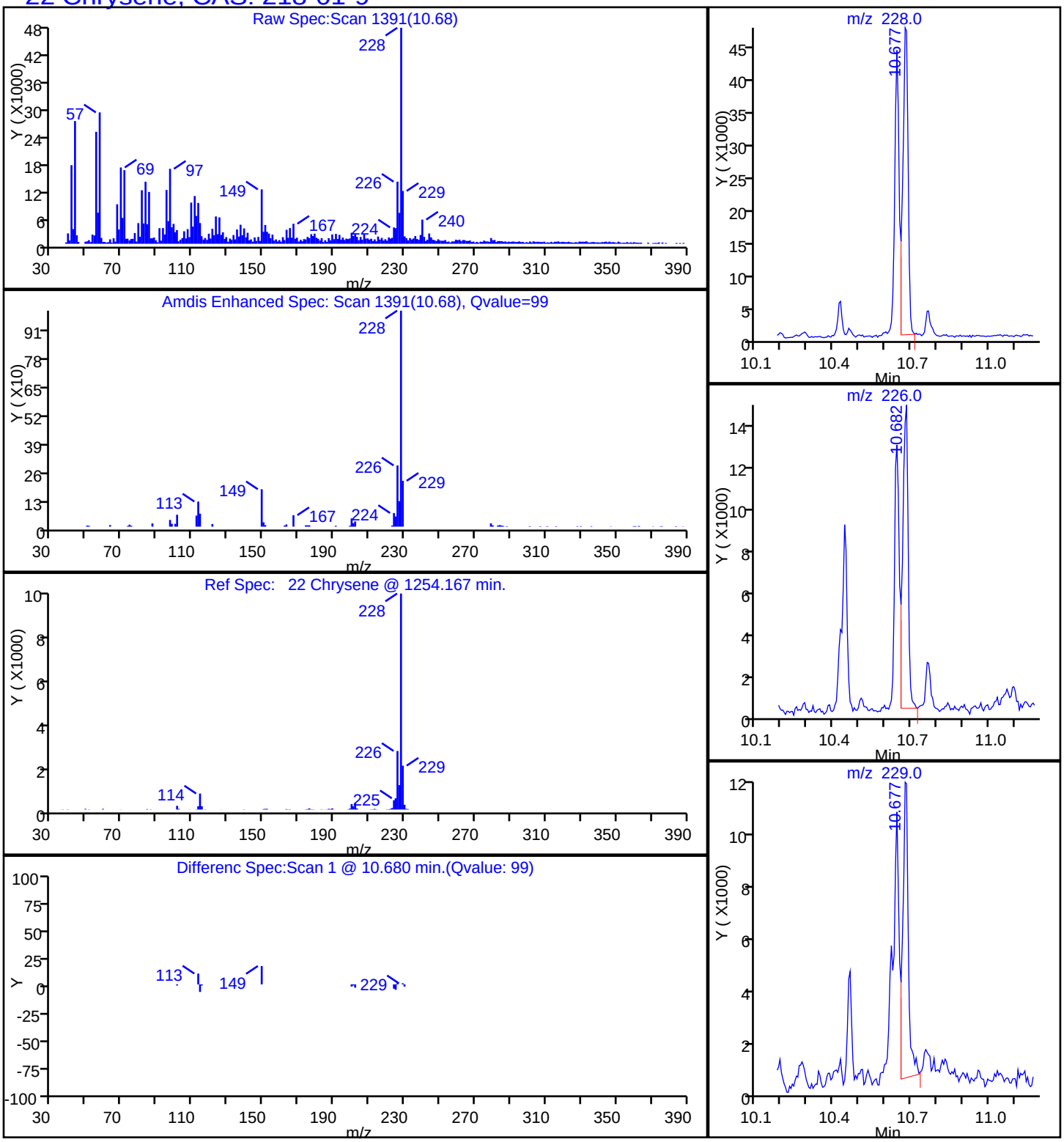


Report Date: 19-Nov-2014 08:49:57 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1717.D				
Injection Date:	18-Nov-2014 16:59:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-12-A	Lab Sample ID:	680-107159-12		
Client ID:	FM0281C-CS18"				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Chrysene, CAS: 218-01-9

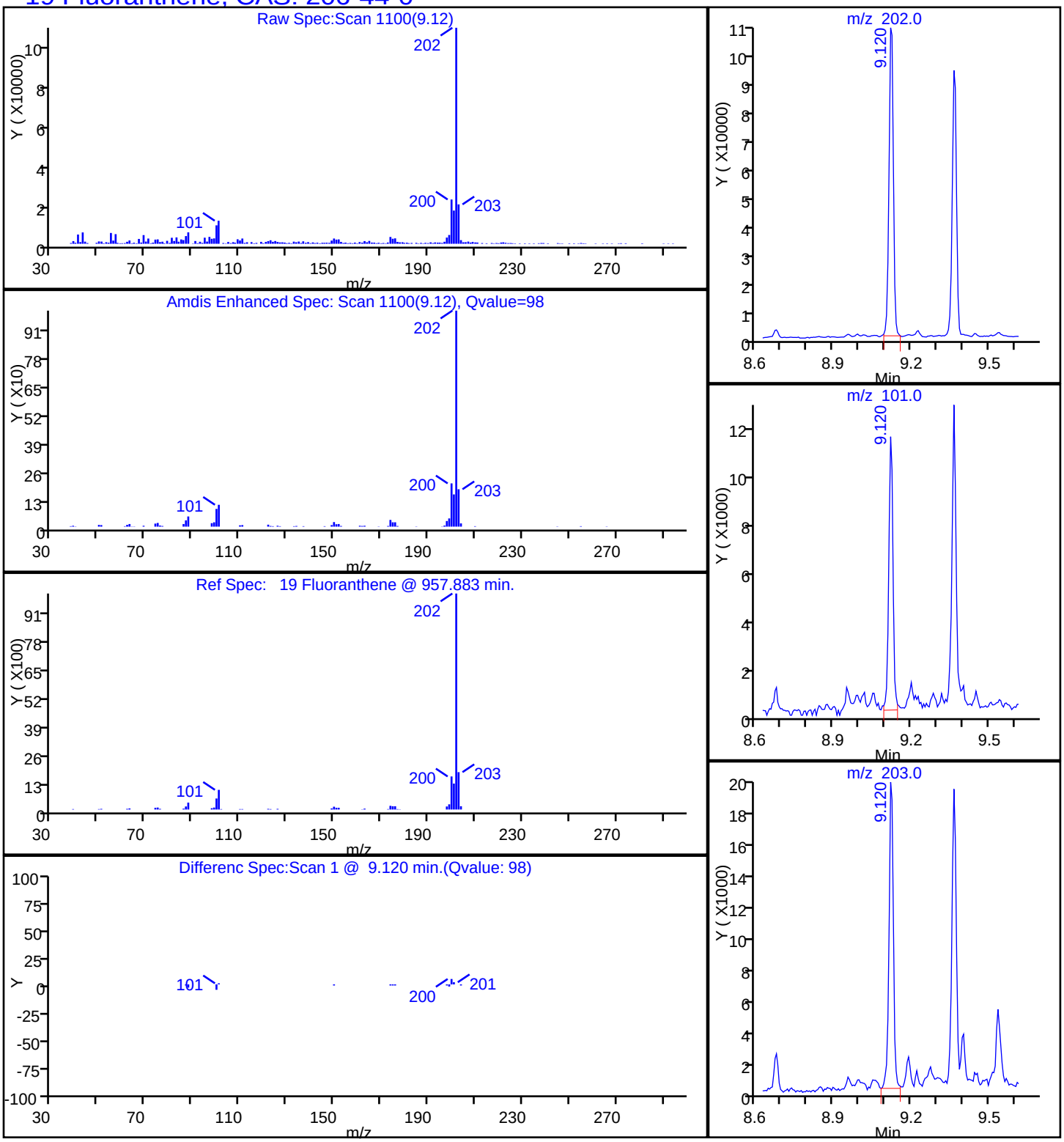


Report Date: 19-Nov-2014 08:49:57 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1717.D				
Injection Date:	18-Nov-2014 16:59:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-12-A	Lab Sample ID:	680-107159-12		
Client ID:	FM0281C-CS18"				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 Fluoranthene, CAS: 206-44-0

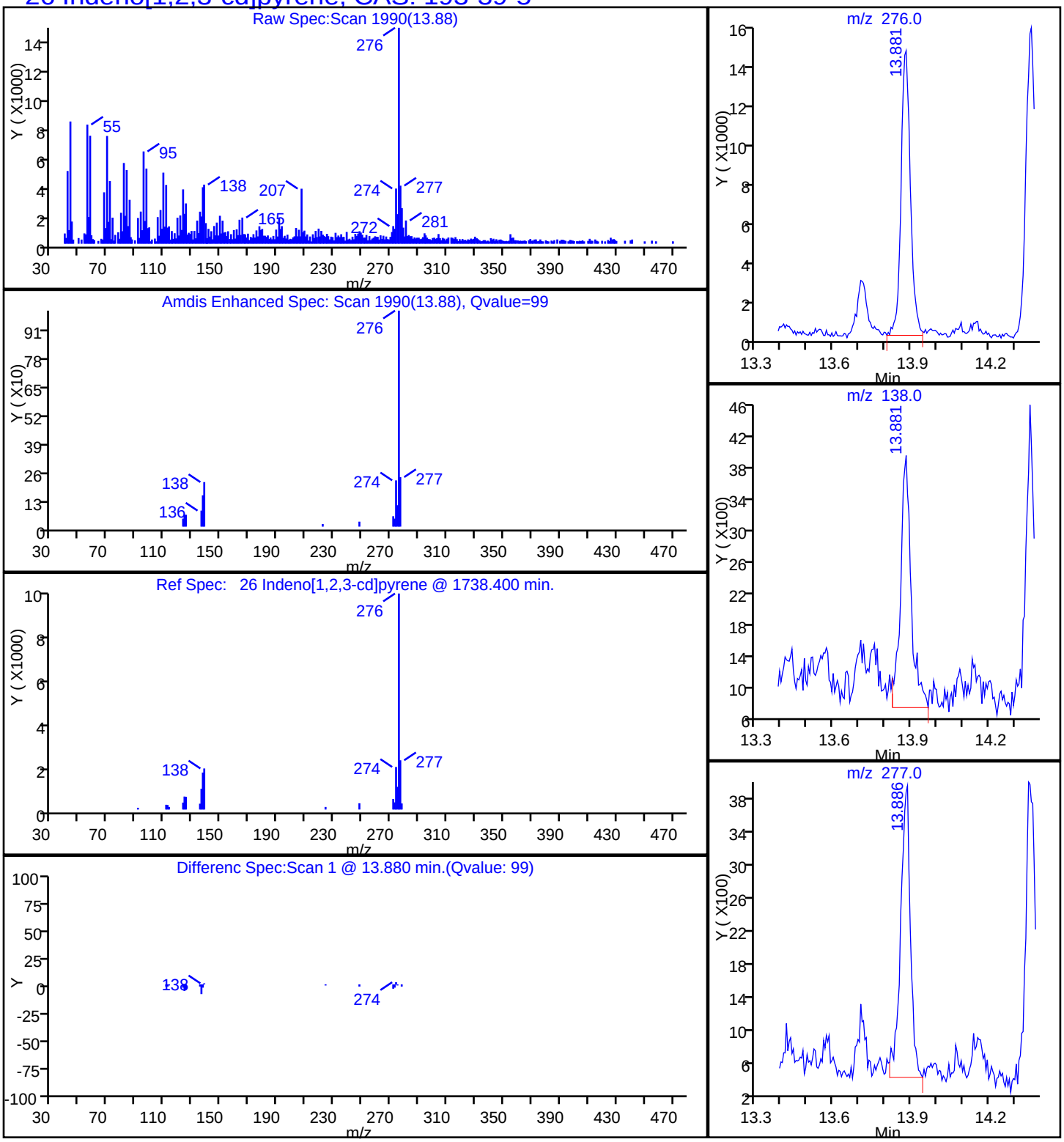


Report Date: 19-Nov-2014 08:49:58 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1717.D				
Injection Date:	18-Nov-2014 16:59:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-12-A	Lab Sample ID:	680-107159-12		
Client ID:	FM0281C-CS18"				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

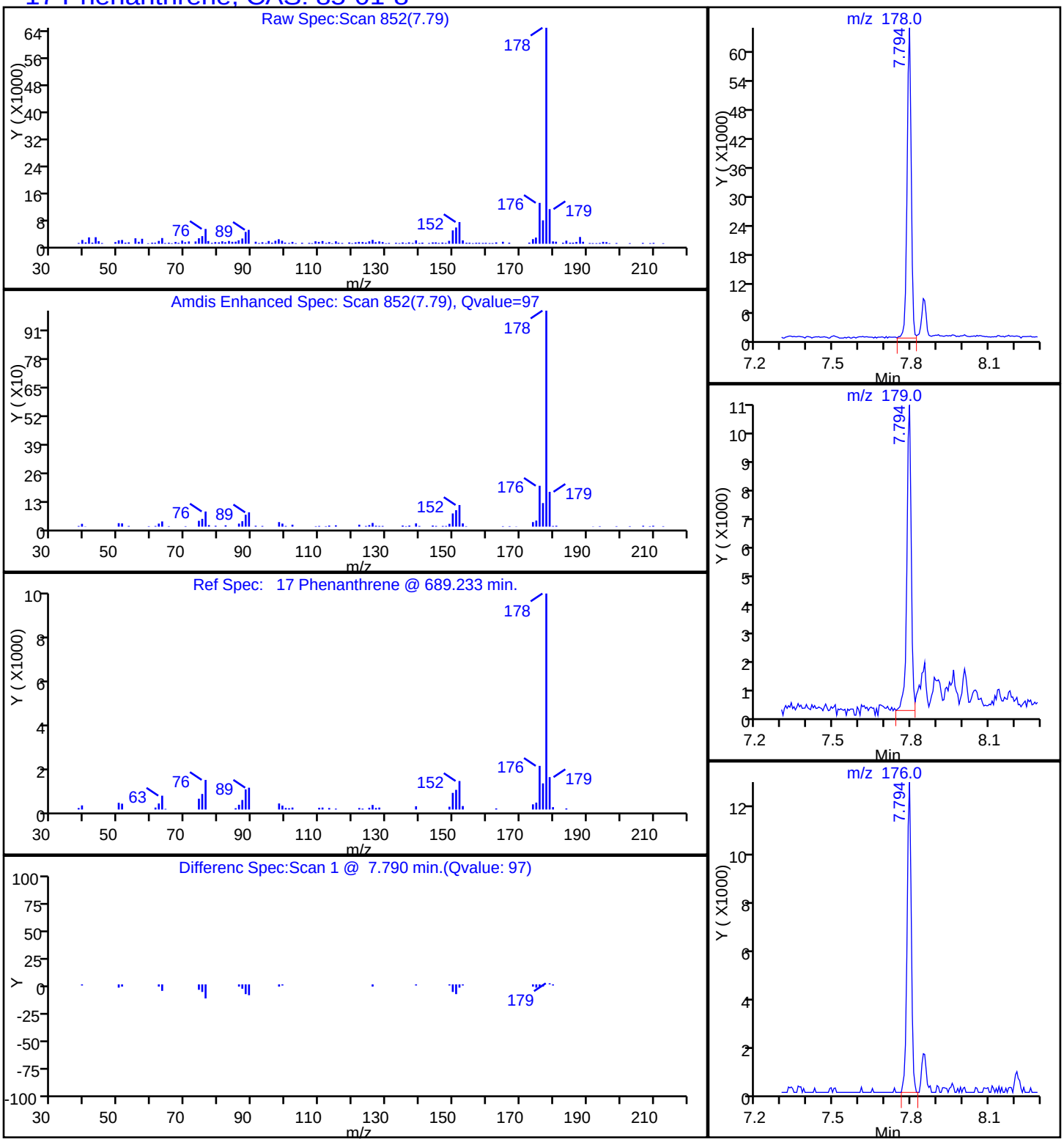


Report Date: 19-Nov-2014 08:49:57 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1717.D				
Injection Date:	18-Nov-2014 16:59:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-12-A	Lab Sample ID:	680-107159-12		
Client ID:	FM0281C-CS18"				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Phenanthrene, CAS: 85-01-8

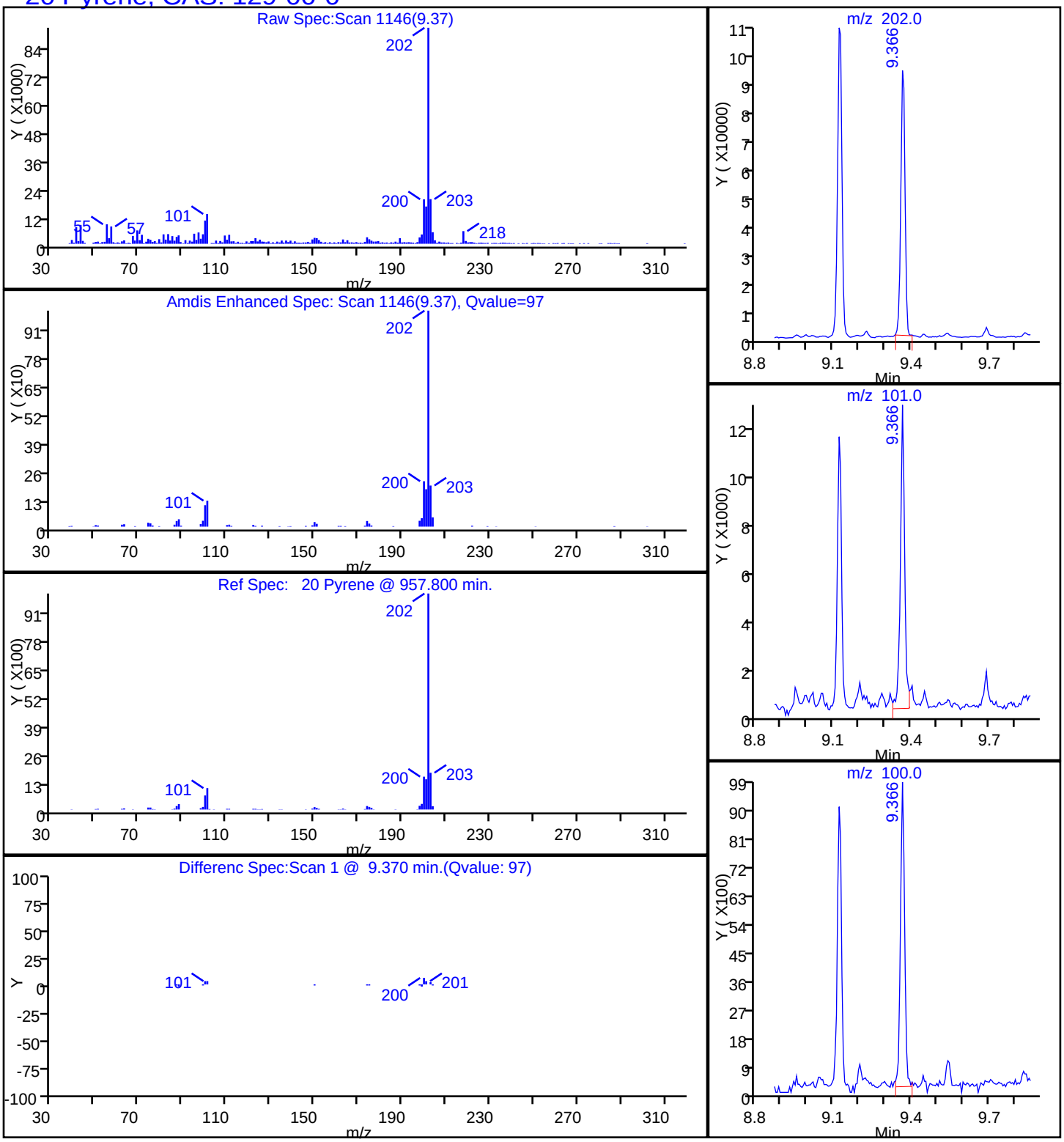


Report Date: 19-Nov-2014 08:49:57 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1717.D				
Injection Date:	18-Nov-2014 16:59:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-12-A	Lab Sample ID:	680-107159-12		
Client ID:	FM0281C-CS18"				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

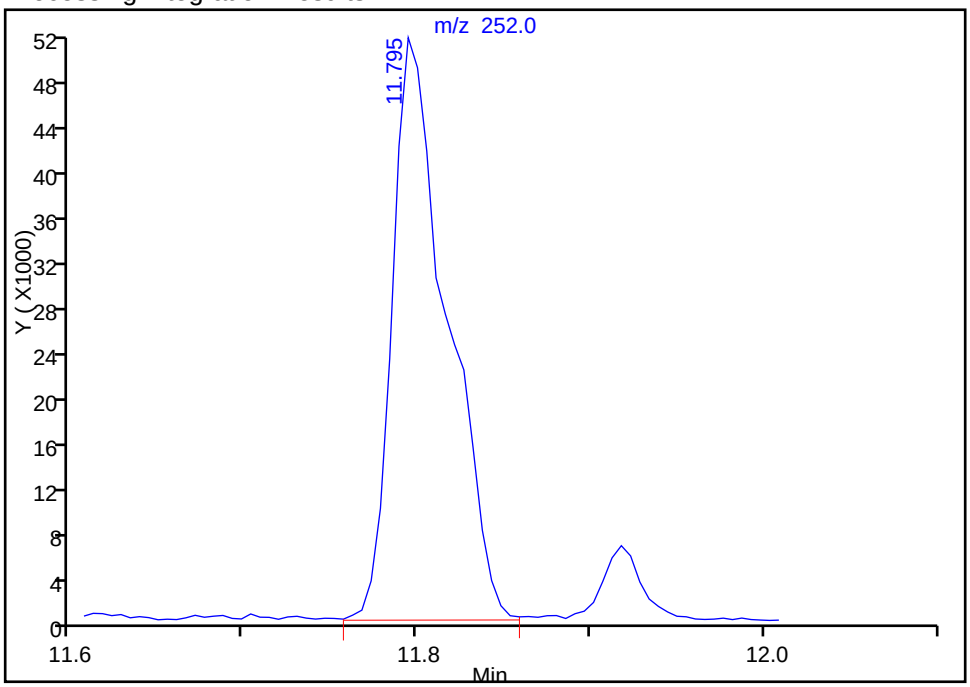
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1717.D				
Injection Date:	18-Nov-2014 16:59:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-12-A	Lab Sample ID:	680-107159-12		
Client ID:	FM0281C-CS18"				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

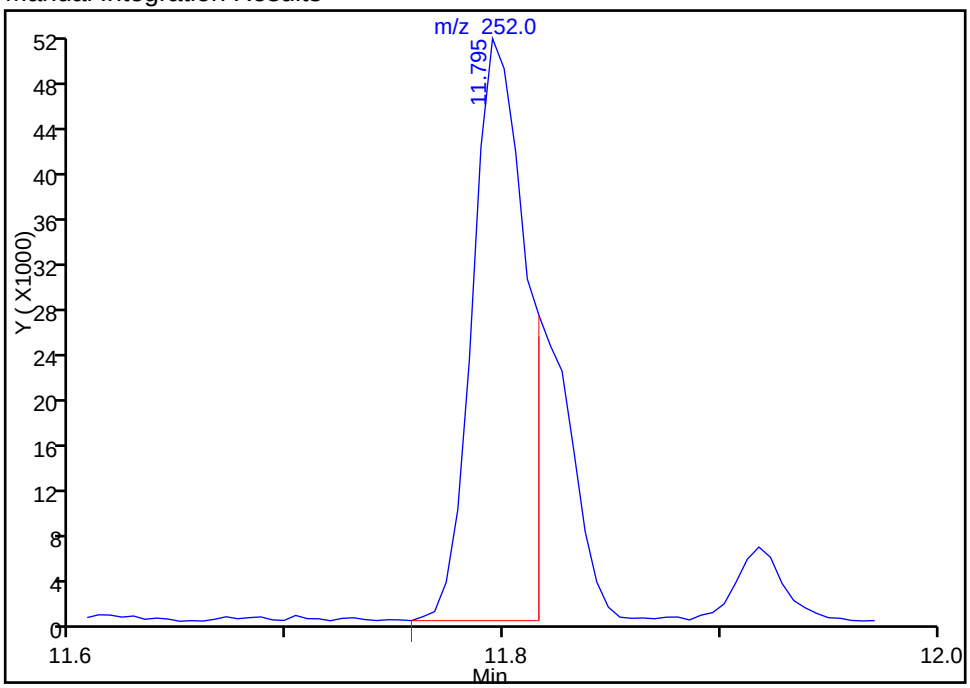
Processing Integration Results

RT: 11.79
Response: 111263
Amount: 0.600316



Manual Integration Results

RT: 11.79
Response: 87358
Amount: 0.471337



Reviewer: webbk, 19-Nov-2014 07:53:27
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

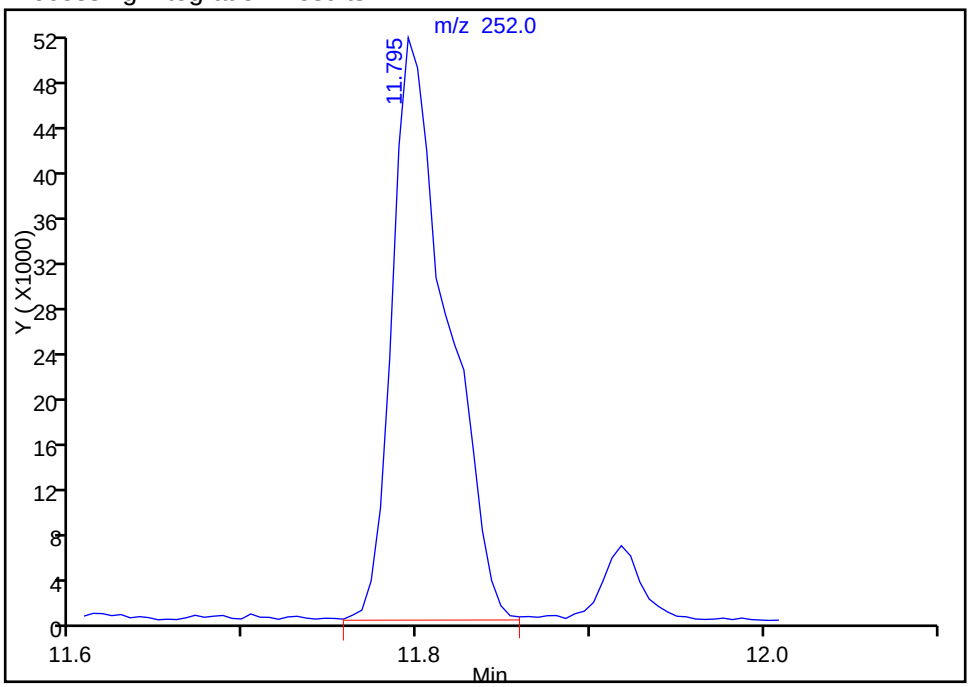
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1717.D				
Injection Date:	18-Nov-2014 16:59:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-12-A	Lab Sample ID:	680-107159-12		
Client ID:	FM0281C-CS18"				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

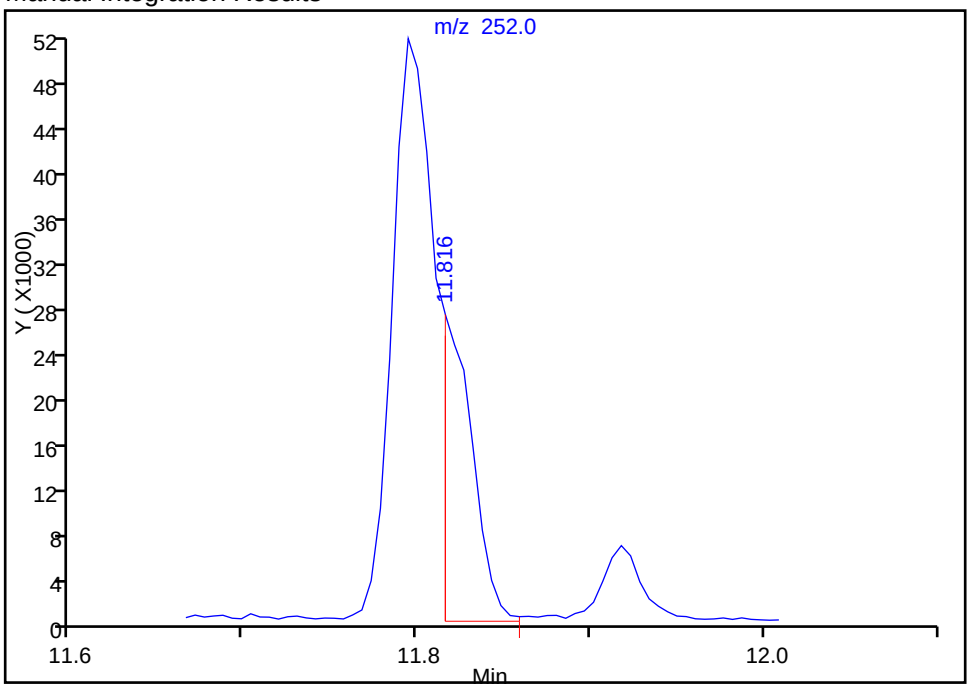
Processing Integration Results

RT: 11.79
Response: 111263
Amount: 0.562300



Manual Integration Results

RT: 11.82
Response: 32448
Amount: 0.162967



Reviewer: webbk, 19-Nov-2014 07:53:27
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281G-CS6" | Lab Sample ID: 680-107159-13

Matrix: Solid | Lab File ID: 1YK1729.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 11:25

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.07(g) | Date Analyzed: 11/18/2014 21:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 13.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	77	U	77	38
208-96-8	Acenaphthylene	77	U	77	38
120-12-7	Anthracene	77	U	77	38
56-55-3	Benzo[a]anthracene	74	J	77	38
50-32-8	Benzo[a]pyrene	82		77	14
205-99-2	Benzo[b]fluoranthene	120		77	38
191-24-2	Benzo[g,h,i]perylene	74	J	77	38
207-08-9	Benzo[k]fluoranthene	33	J	77	23
218-01-9	Chrysene	100		77	38
53-70-3	Dibenz(a,h)anthracene	77	U	77	38
206-44-0	Fluoranthene	140		77	38
86-73-7	Fluorene	77	U	77	38
193-39-5	Indeno[1,2,3-cd]pyrene	49	J	77	38
90-12-0	1-Methylnaphthalene	77	U	77	36
91-57-6	2-Methylnaphthalene	77	U	77	38
91-20-3	Naphthalene	77	U	77	38
85-01-8	Phenanthrene	85		77	28
129-00-0	Pyrene	150		77	38

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1729.D				
Lims ID:	680-107159-B-13-A	Lab Sample ID:	680-107159-13		
Client ID:	FM0281G-CS6"				
Sample Type:	Client				
Inject. Date:	18-Nov-2014 21:27:30	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Sample Info:	107159-B-13-A 1:10				
Misc. Info.:	680-0014871-029				
Operator ID:		Instrument ID:	CMSY		

Method:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m		
Limit Group:	8270D_LL_PAH		
Last Update:	19-Nov-2014 08:10:37	Calib Date:	18-Nov-2014 13:33:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D		

Column 1 :	Restek RXi-5Sil MS (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK051	

First Level Reviewer: webbk Date: 19-Nov-2014 08:06:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.258	4.264	-0.006	99	445826	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	92	254810	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	445526	2.00	
* 4 Chrysene-d12	240	10.655	10.655	0.000	99	336572	2.00	
* 5 Perylene-d12	264	12.276	12.265	0.011	99	220837	2.00	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	82	11048	0.0727	
10 1-Methylnaphthalene	142	5.087	5.087	0.000	69	8894	0.0642	
17 Phenanthrene	178	7.794	7.794	0.000	97	57444	0.2210	
18 Anthracene	178	7.853	7.853	0.000	83	6688	0.0274	7
19 Fluoranthene	202	9.126	9.126	0.000	98	91999	0.3605	
20 Pyrene	202	9.372	9.372	0.000	97	79010	0.3772	
21 Benzo[a]anthracene	228	10.650	10.645	0.005	99	35998	0.1918	
22 Chrysene	228	10.682	10.682	0.000	99	43165	0.2588	
23 Benzo[b]fluoranthene	252	11.805	11.795	0.010	98	43564	0.3200	M
24 Benzo[k]fluoranthene	252	11.827	11.827	0.000	98	12426	0.0849	M
25 Benzo[a]pyrene	252	12.201	12.196	0.005	97	23130	0.2139	
26 Indeno[1,2,3-cd]pyrene	276	13.891	13.870	0.021	98	18593	0.1276	
28 Benzo[g,h,i]perylene	276	14.383	14.357	0.026	98	19683	0.1920	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

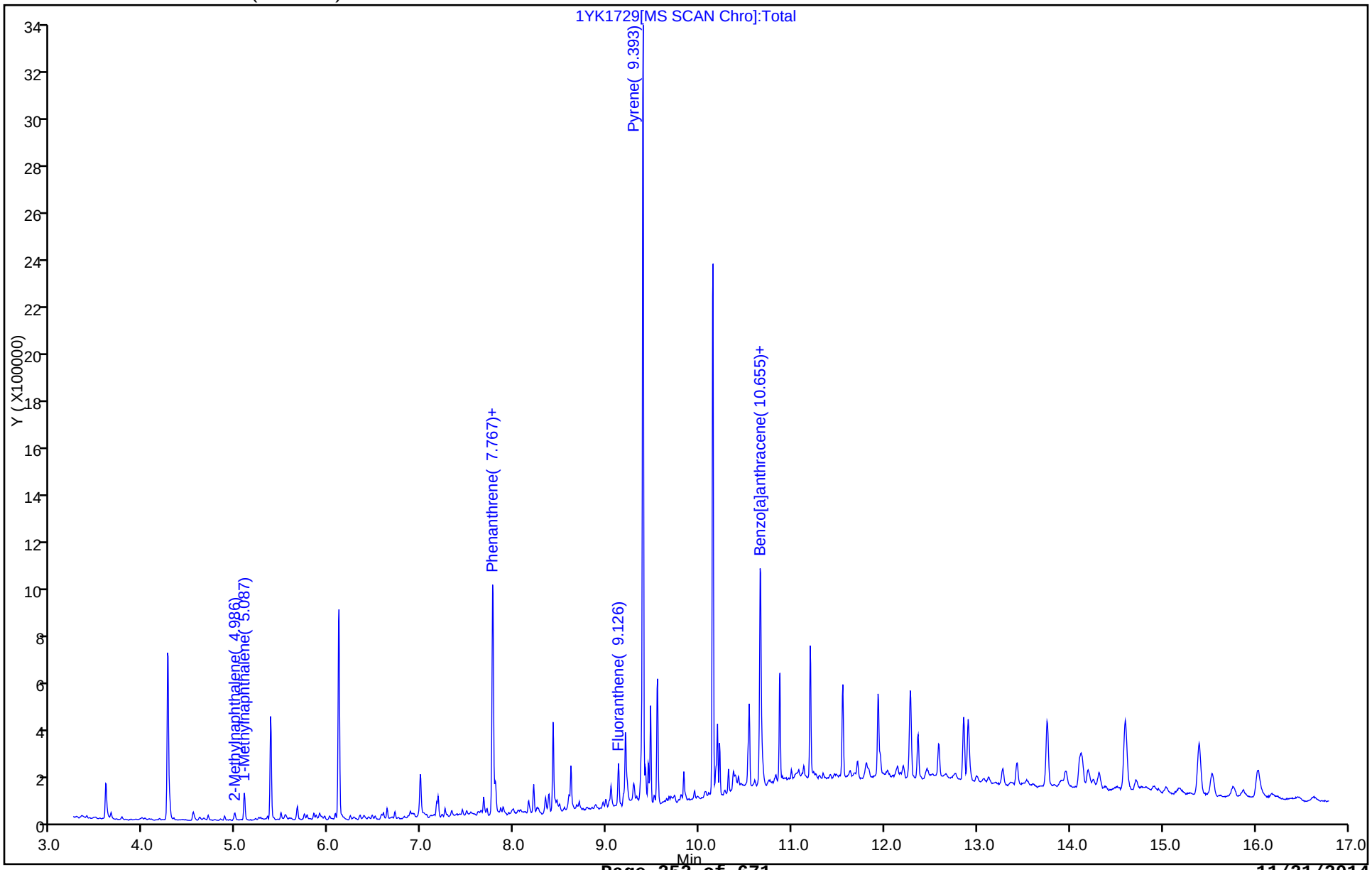
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Nov-2014 08:49:49 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1729.D				
Injection Date:	18-Nov-2014 21:27:30	Instrument ID:	CMSY	Operator ID:	
Lims ID:	680-107159-B-13-A	Lab Sample ID:	680-107159-13	Worklist Smp#:	29
Client ID:	FM0281G-CS6"				
Injection Vol:	2.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	29
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)

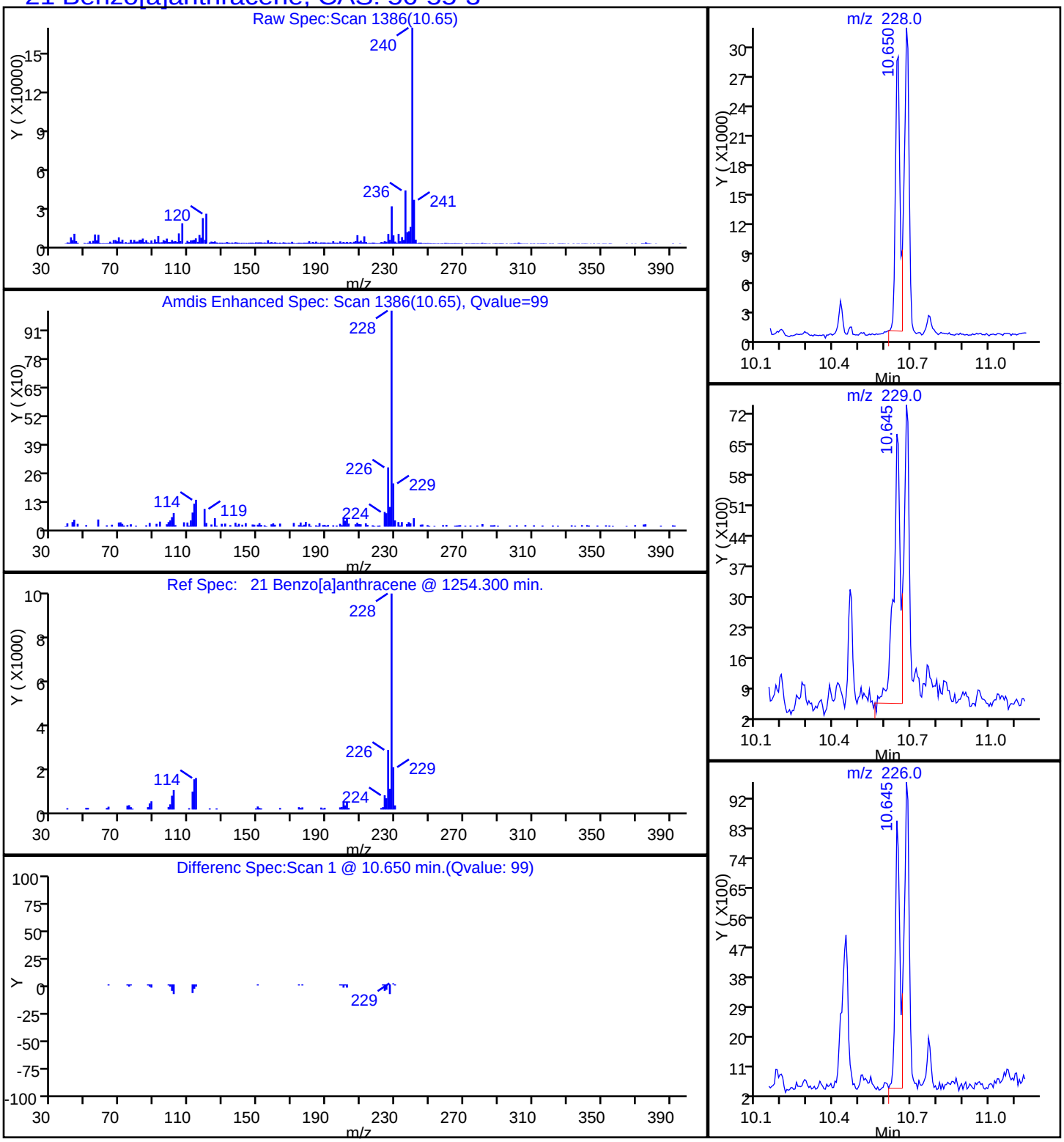


Report Date: 19-Nov-2014 08:49:49 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1729.D				
Injection Date:	18-Nov-2014 21:27:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-13-A	Lab Sample ID:	680-107159-13		
Client ID:	FM0281G-CS6"				
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

21 Benzo[a]anthracene, CAS: 56-55-3

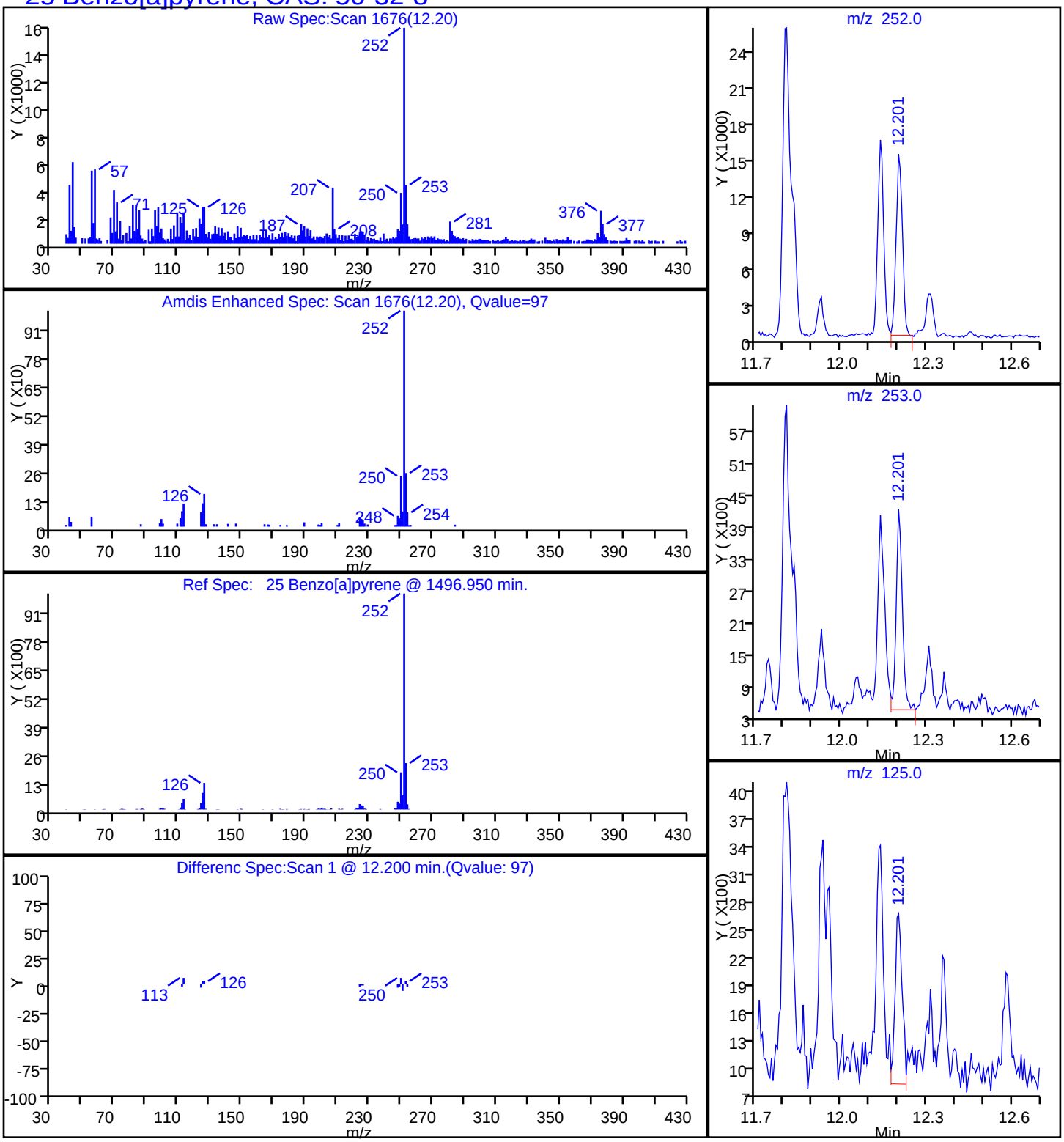


Report Date: 19-Nov-2014 08:49:49 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1729.D				
Injection Date:	18-Nov-2014 21:27:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-13-A	Lab Sample ID:	680-107159-13		
Client ID:	FM0281G-CS6"				
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

25 Benzo[a]pyrene, CAS: 50-32-8

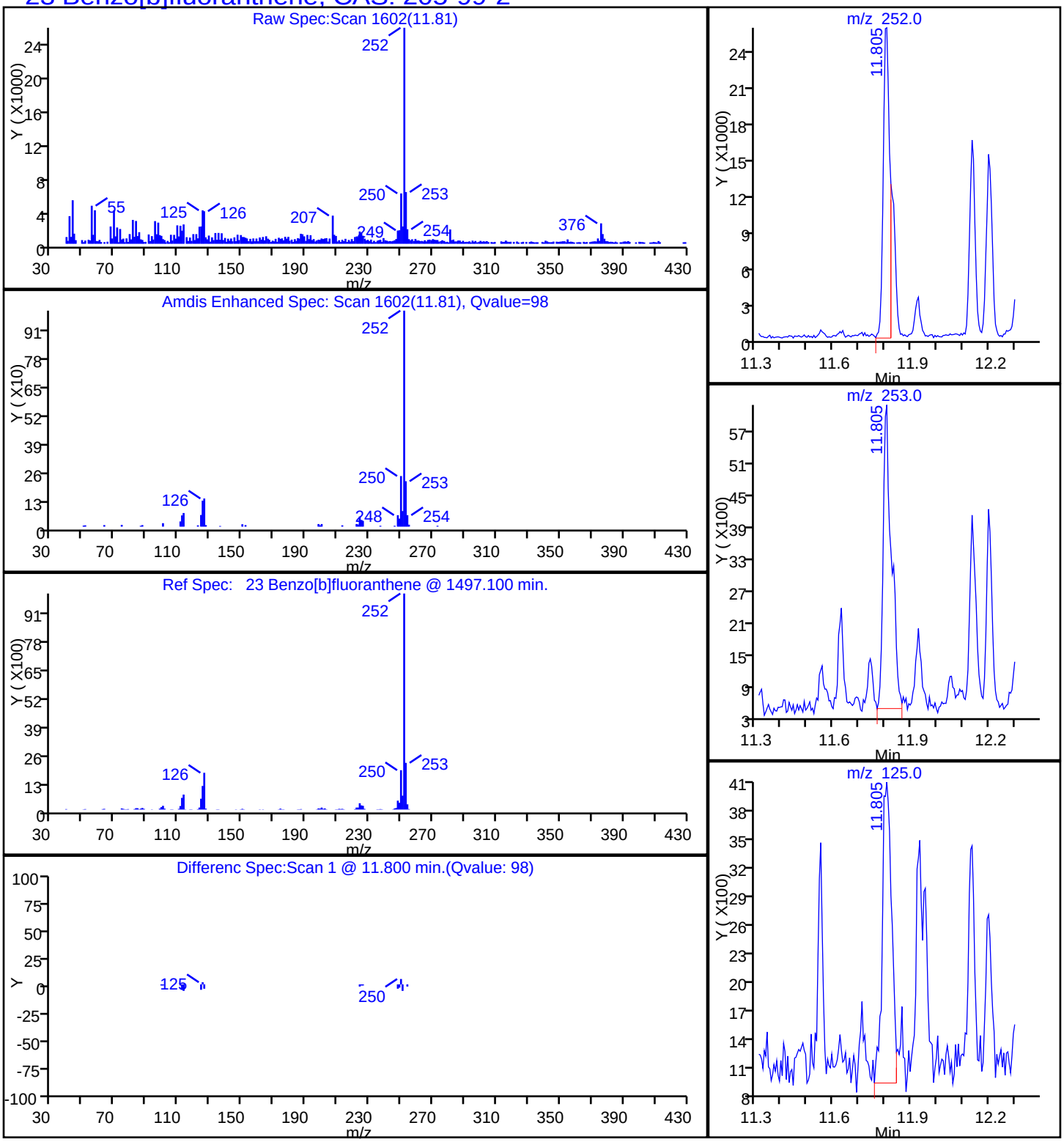


Report Date: 19-Nov-2014 08:49:49 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1729.D				
Injection Date:	18-Nov-2014 21:27:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-13-A	Lab Sample ID:	680-107159-13		
Client ID:	FM0281G-CS6"				
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

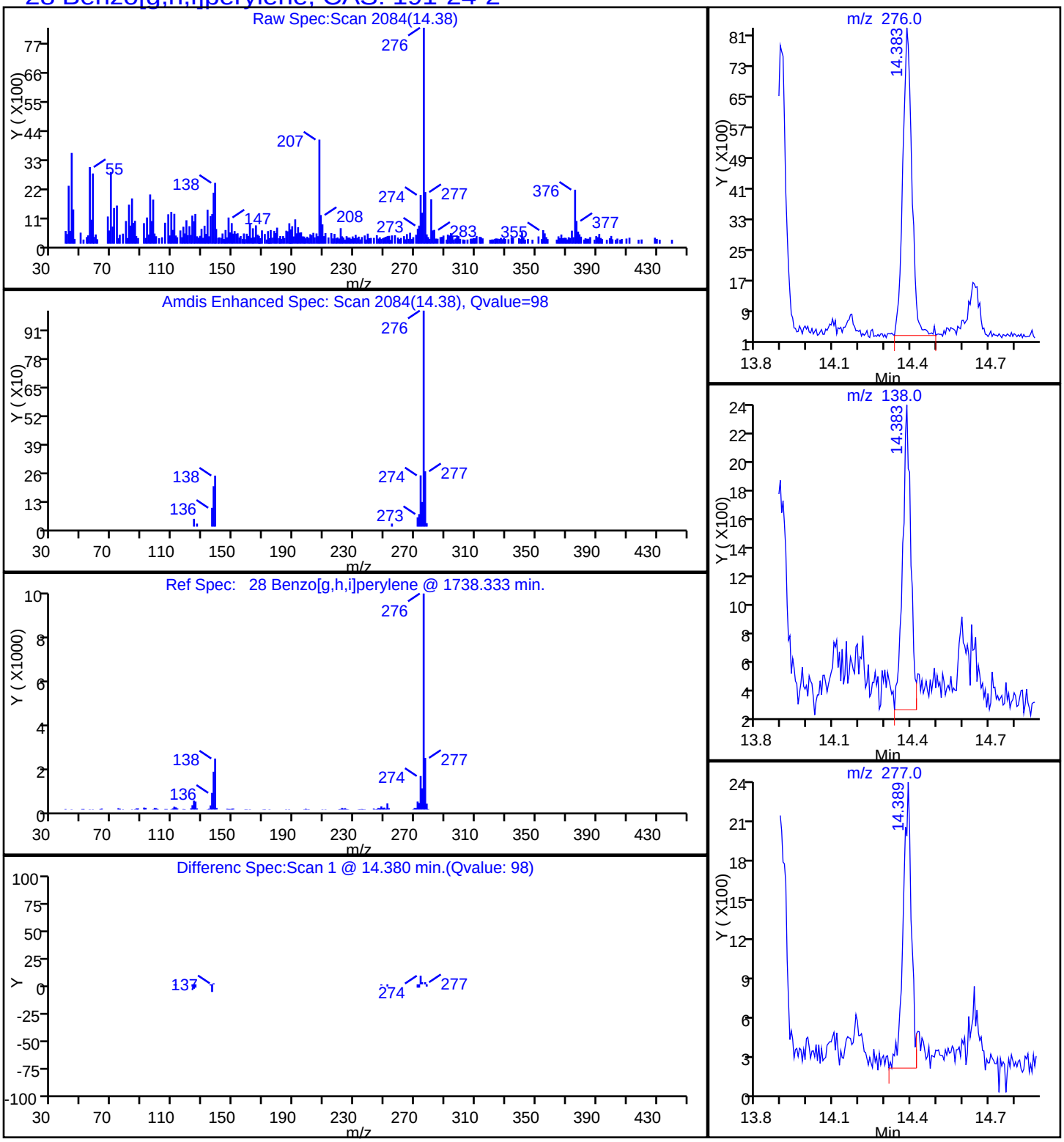


Report Date: 19-Nov-2014 08:49:49 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1729.D				
Injection Date:	18-Nov-2014 21:27:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-13-A	Lab Sample ID:	680-107159-13		
Client ID:	FM0281G-CS6"				
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

28 Benzo[g,h,i]perylene, CAS: 191-24-2

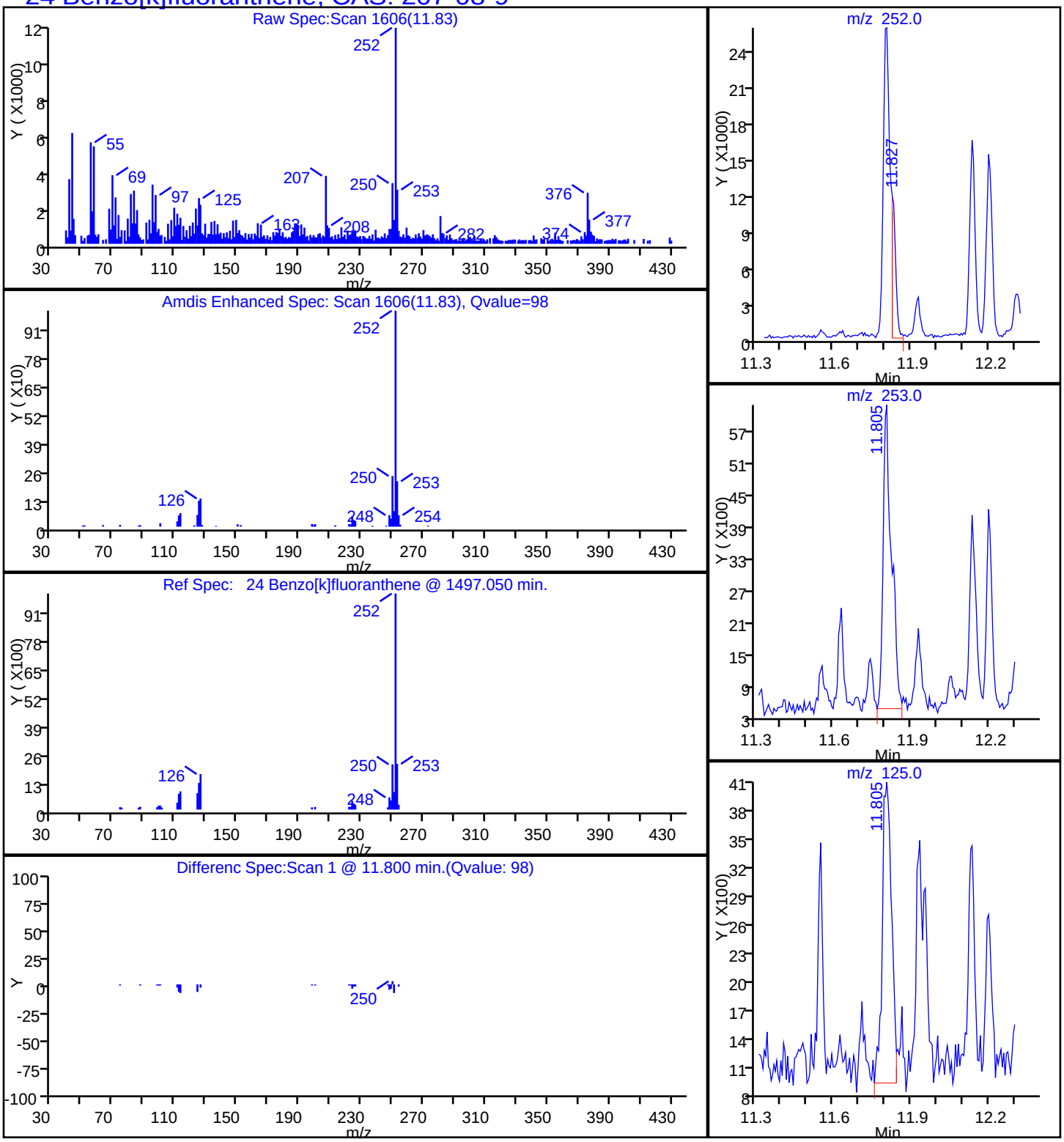


Report Date: 19-Nov-2014 08:49:49 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1729.D				
Injection Date:	18-Nov-2014 21:27:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-13-A	Lab Sample ID:	680-107159-13		
Client ID:	FM0281G-CS6"				
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

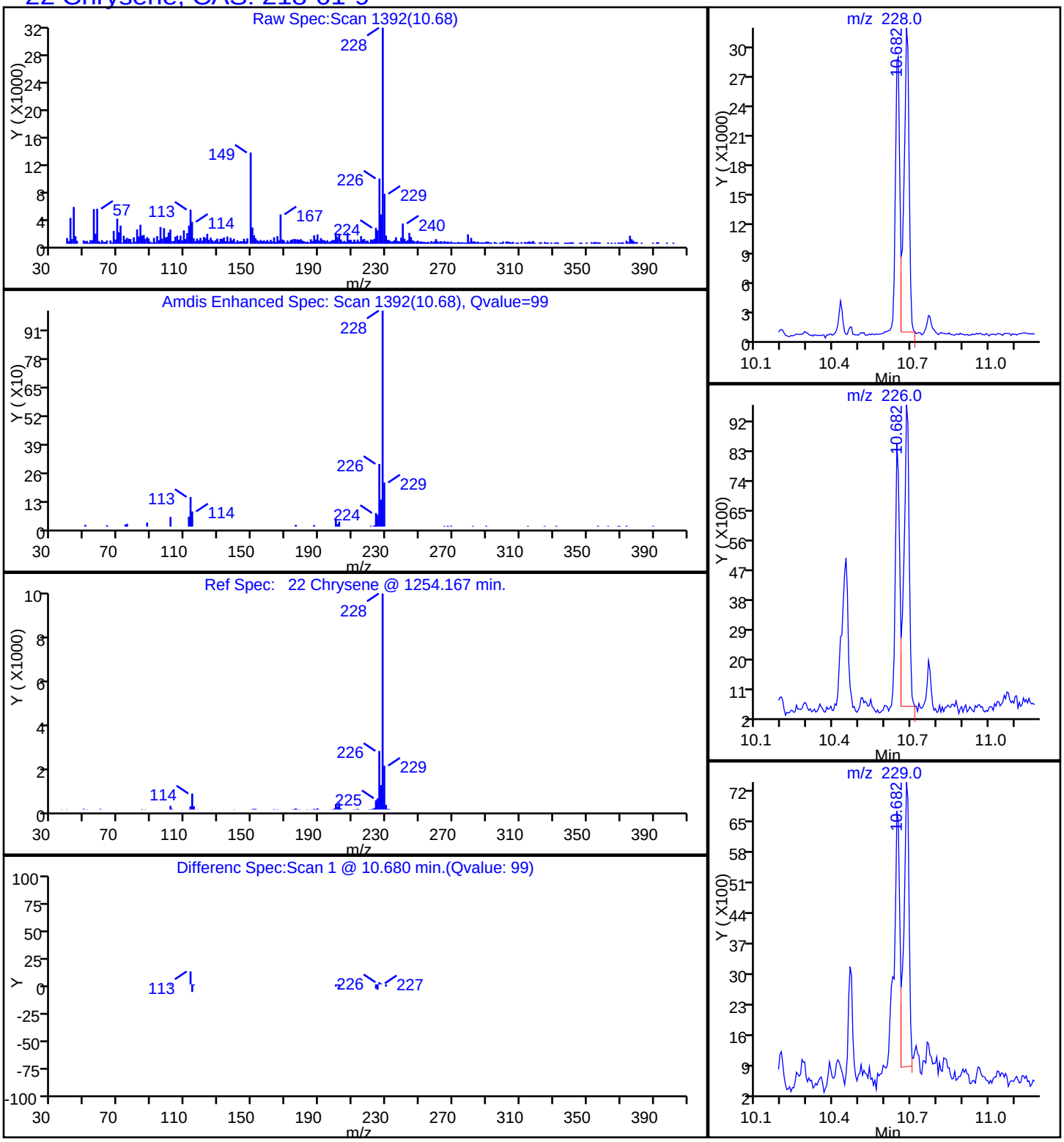


Report Date: 19-Nov-2014 08:49:49 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1729.D				
Injection Date:	18-Nov-2014 21:27:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-13-A	Lab Sample ID:	680-107159-13		
Client ID:	FM0281G-CS6"				
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Chrysene, CAS: 218-01-9

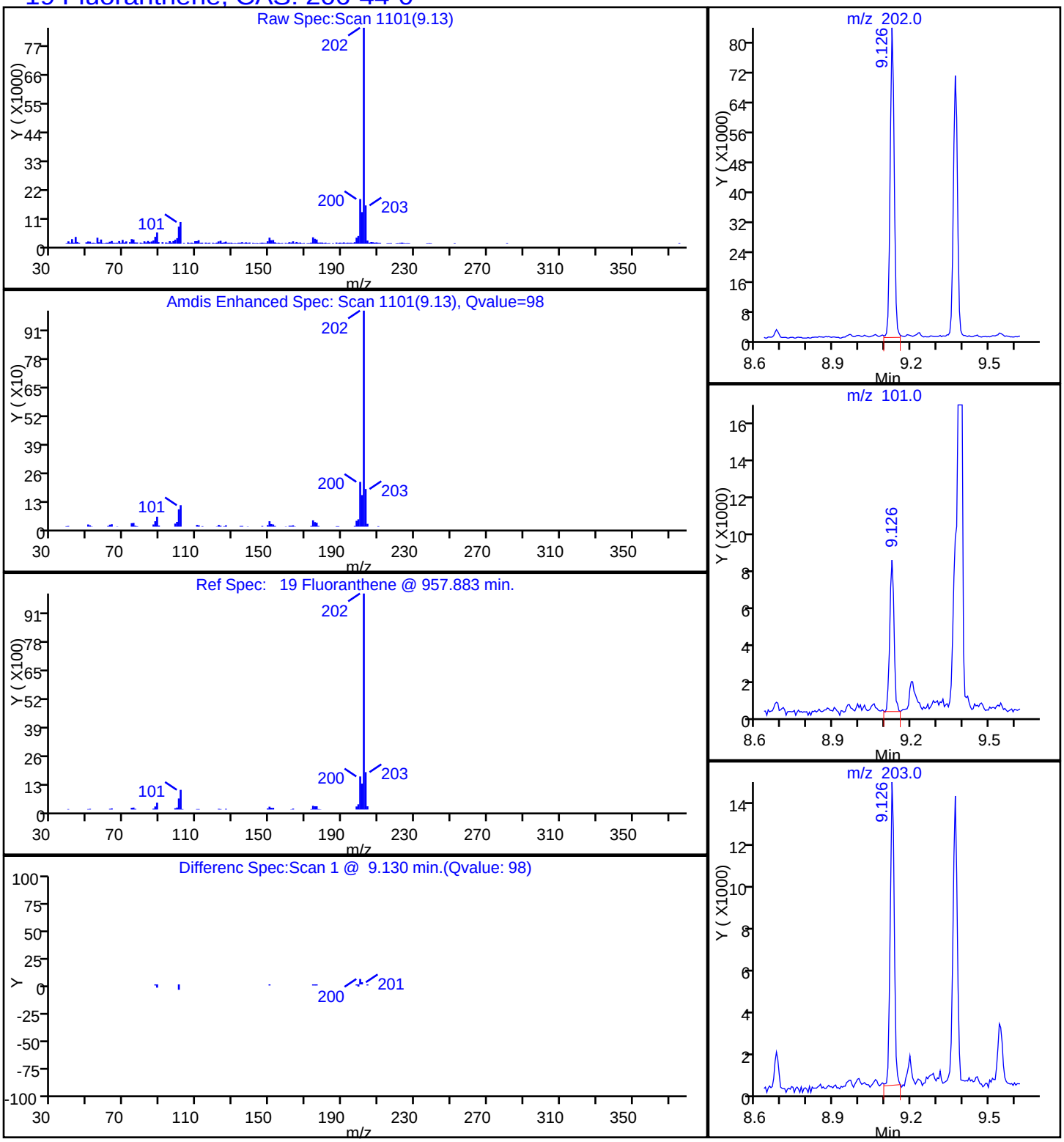


Report Date: 19-Nov-2014 08:49:49 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1729.D				
Injection Date:	18-Nov-2014 21:27:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-13-A	Lab Sample ID:	680-107159-13		
Client ID:	FM0281G-CS6"				
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 Fluoranthene, CAS: 206-44-0

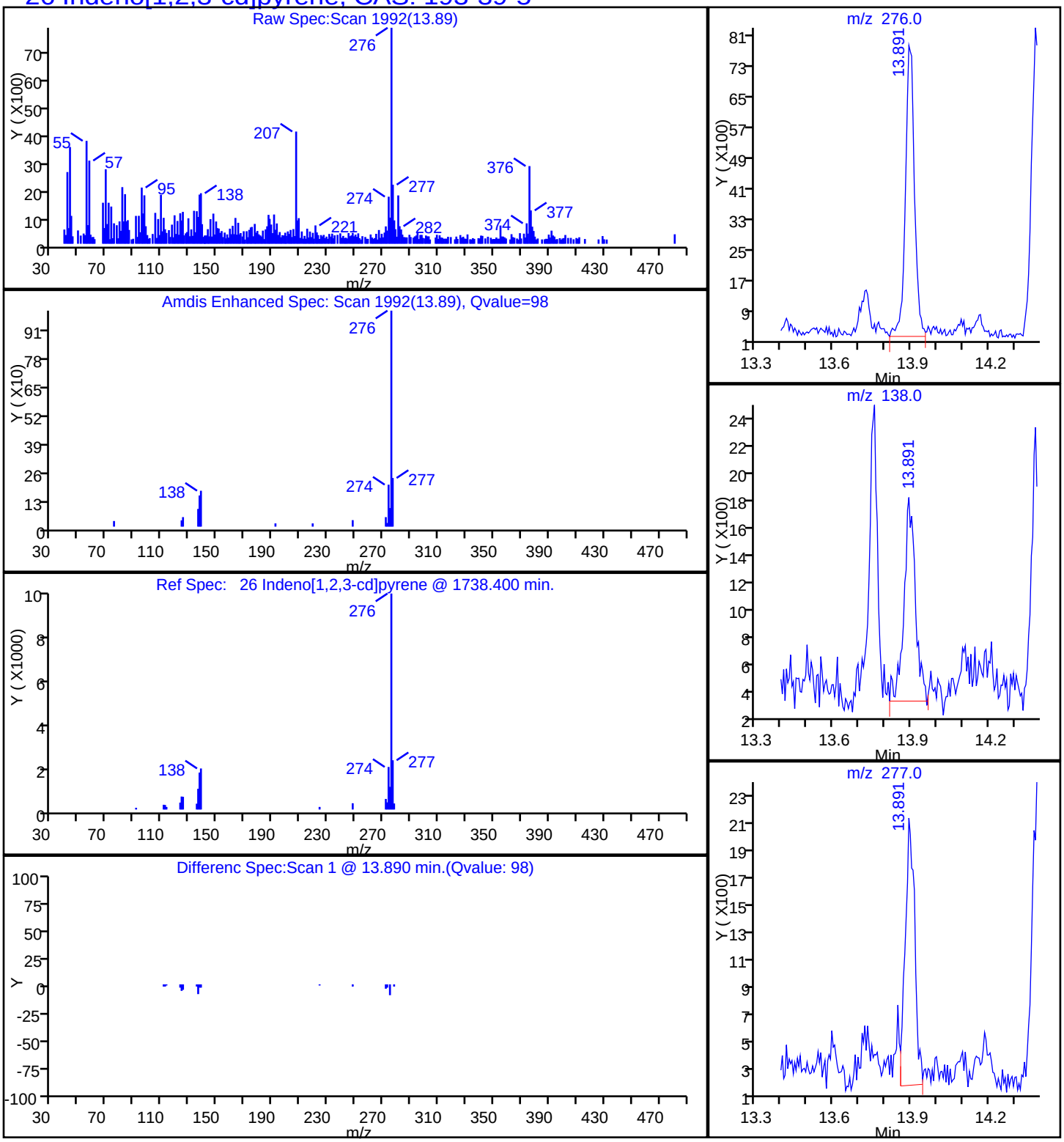


Report Date: 19-Nov-2014 08:49:49 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1729.D				
Injection Date:	18-Nov-2014 21:27:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-13-A	Lab Sample ID:	680-107159-13		
Client ID:	FM0281G-CS6"				
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

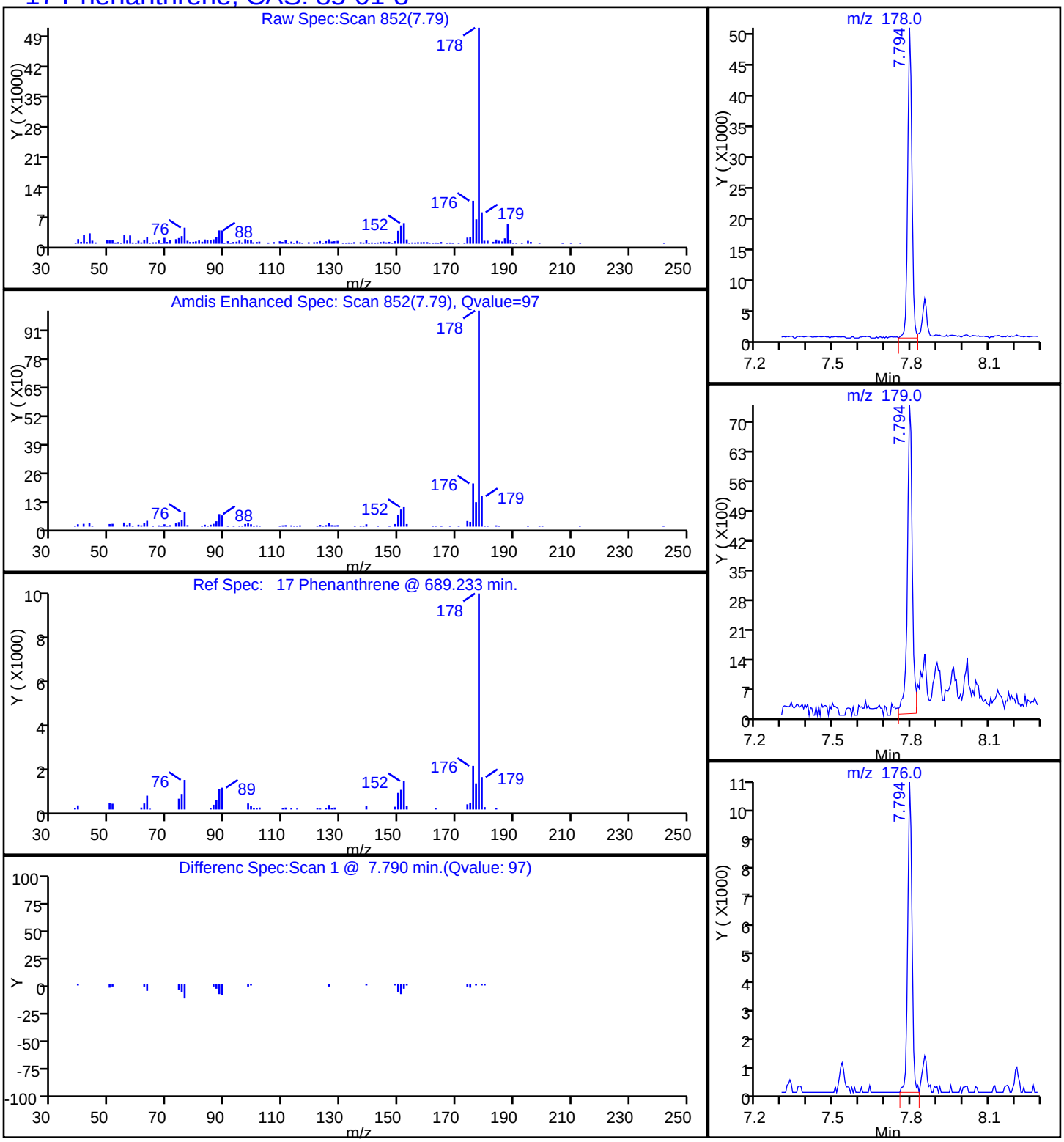


Report Date: 19-Nov-2014 08:49:49 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1729.D				
Injection Date:	18-Nov-2014 21:27:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-13-A	Lab Sample ID:	680-107159-13		
Client ID:	FM0281G-CS6"				
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Phenanthrene, CAS: 85-01-8

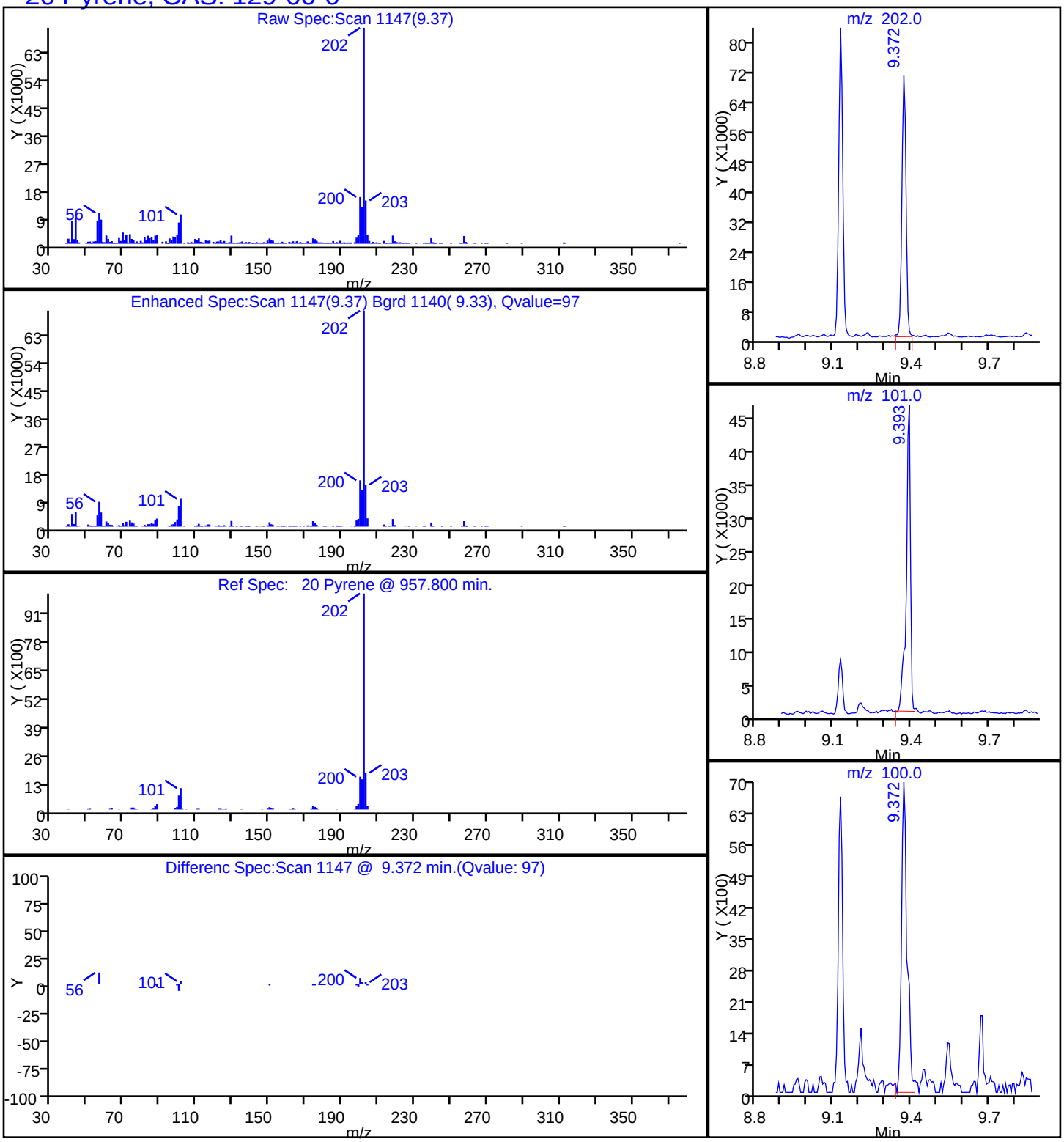


Report Date: 19-Nov-2014 08:49:49 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1729.D				
Injection Date:	18-Nov-2014 21:27:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-13-A	Lab Sample ID:	680-107159-13		
Client ID:	FM0281G-CS6"				
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

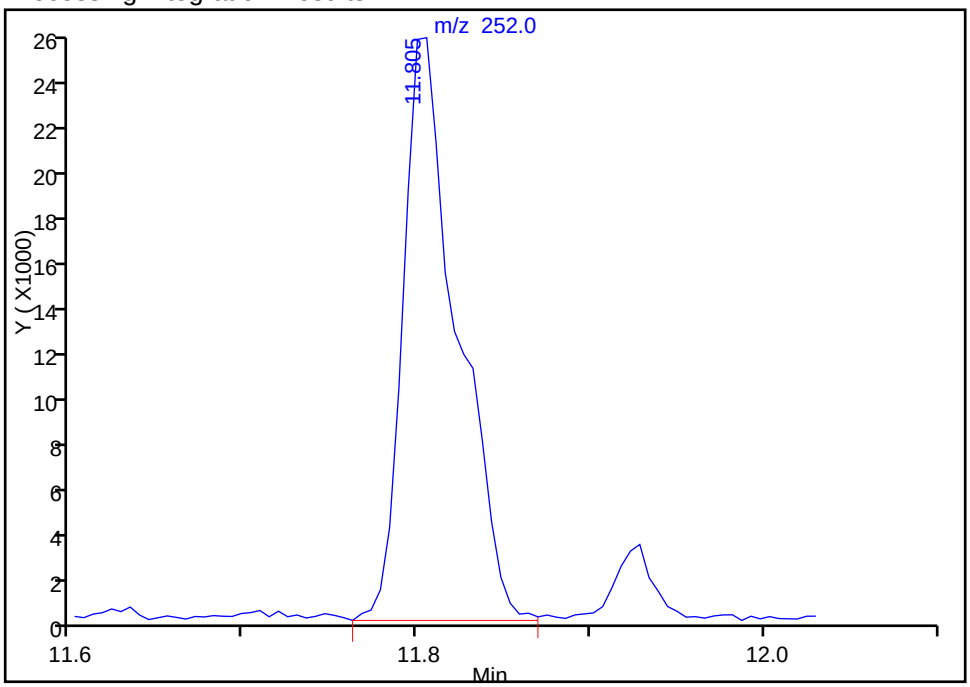
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1729.D				
Injection Date:	18-Nov-2014 21:27:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-13-A	Lab Sample ID:	680-107159-13		
Client ID:	FM0281G-CS6"				
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

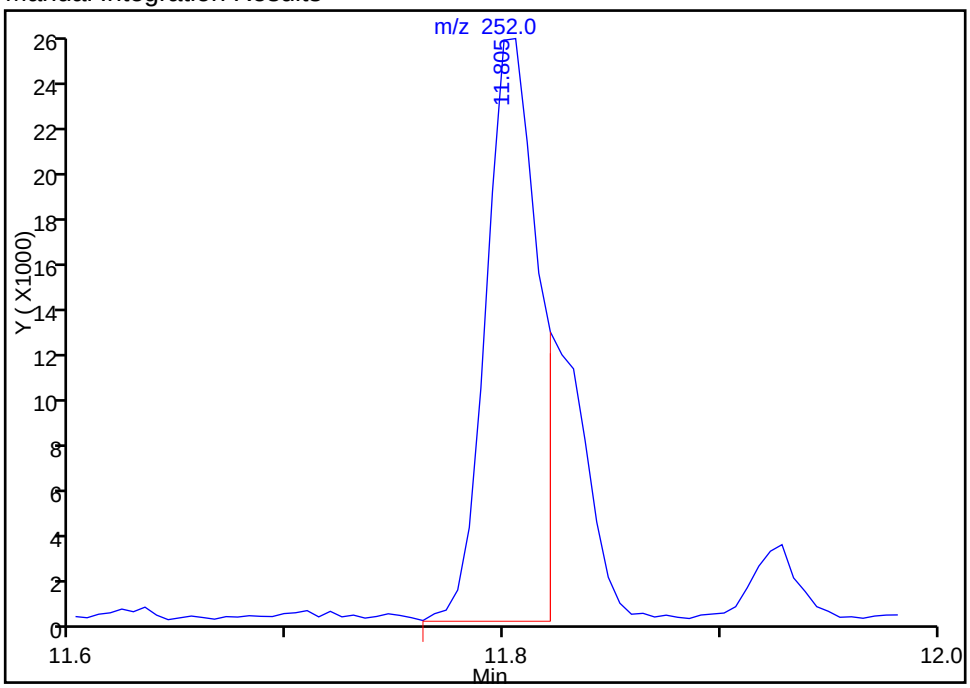
Processing Integration Results

RT: 11.81
Response: 55785
Amount: 0.409762



Manual Integration Results

RT: 11.81
Response: 43564
Amount: 0.319994



Reviewer: webbk, 19-Nov-2014 08:06:19
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

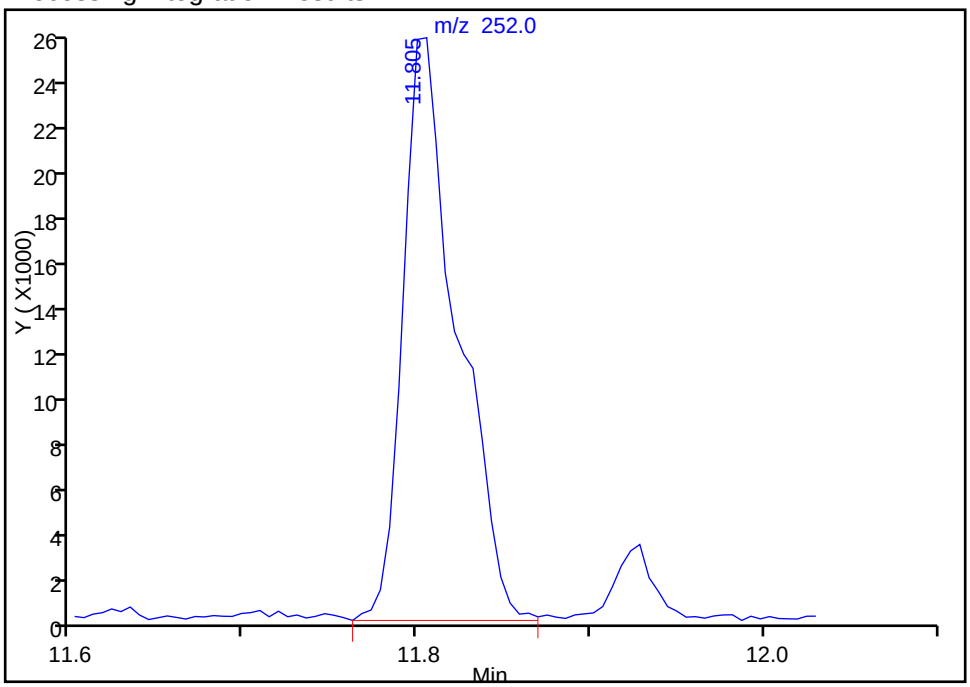
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1729.D				
Injection Date:	18-Nov-2014 21:27:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-13-A	Lab Sample ID:	680-107159-13		
Client ID:	FM0281G-CS6"				
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

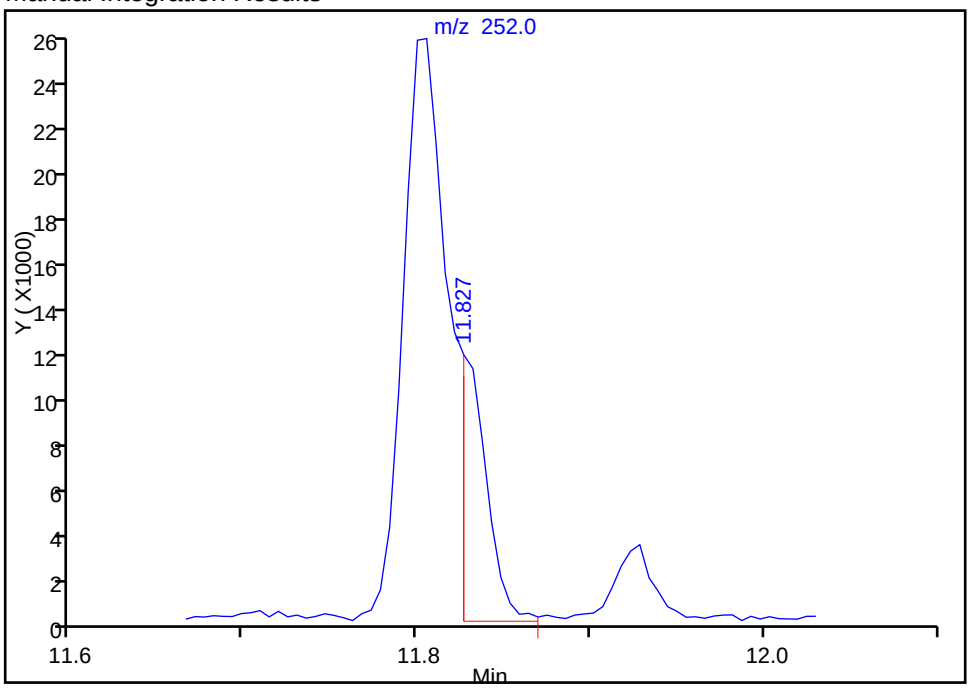
Processing Integration Results

RT: 11.81
Response: 55785
Amount: 0.382737



Manual Integration Results

RT: 11.83
Response: 12426
Amount: 0.084859



Reviewer: webbk, 19-Nov-2014 08:06:19
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281G-CS12" | Lab Sample ID: 680-107159-14

Matrix: Solid | Lab File ID: 1YK1730.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 11:35

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.03(g) | Date Analyzed: 11/18/2014 21:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 11.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	76	U	76	37
208-96-8	Acenaphthylene	76	U	76	37
120-12-7	Anthracene	76	U	76	37
56-55-3	Benzo[a]anthracene	41	J	76	37
50-32-8	Benzo[a]pyrene	45	J	76	14
205-99-2	Benzo[b]fluoranthene	68	J	76	37
191-24-2	Benzo[g,h,i]perylene	50	J	76	37
207-08-9	Benzo[k]fluoranthene	76	U	76	23
218-01-9	Chrysene	58	J	76	37
53-70-3	Dibenz(a,h)anthracene	76	U	76	37
206-44-0	Fluoranthene	63	J	76	37
86-73-7	Fluorene	76	U	76	37
193-39-5	Indeno[1,2,3-cd]pyrene	76	U	76	37
90-12-0	1-Methylnaphthalene	43	J	76	35
91-57-6	2-Methylnaphthalene	53	J	76	37
91-20-3	Naphthalene	44	J	76	37
85-01-8	Phenanthrene	46	J	76	27
129-00-0	Pyrene	69	J	76	37

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1730.D
Lims ID: 680-107159-B-14-A Lab Sample ID: 680-107159-14
Client ID: FM0281G-CS12"
Sample Type: Client
Inject. Date: 18-Nov-2014 21:49:30 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Sample Info: 107159-B-14-A 1:10
Misc. Info.: 680-0014871-030
Operator ID: Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 19-Nov-2014 08:10:37 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: webbk Date: 19-Nov-2014 08:07:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.258	4.264	-0.006	99	434700	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	93	240594	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	420827	2.00	
* 4 Chrysene-d12	240	10.661	10.655	0.006	99	332827	2.00	
* 5 Perylene-d12	264	12.276	12.265	0.011	99	217744	2.00	
7 Naphthalene	128	4.280	4.285	-0.005	71	26472	0.1157	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	81	20697	0.1398	
10 1-Methylnaphthalene	142	5.087	5.087	0.000	83	15396	0.1140	
17 Phenanthrene	178	7.794	7.794	0.000	72	30296	0.1233	
18 Anthracene	178	7.853	7.853	0.000	55	3548	0.0154	7
19 Fluoranthene	202	9.126	9.126	0.000	98	40031	0.1661	
20 Pyrene	202	9.372	9.372	0.000	97	37749	0.1821	
21 Benzo[a]anthracene	228	10.650	10.645	0.005	51	20146	0.1085	
22 Chrysene	228	10.682	10.682	0.000	78	25444	0.1542	
23 Benzo[b]fluoranthene	252	11.805	11.795	0.010	96	24217	0.1804	M
24 Benzo[k]fluoranthene	252	11.827	11.827	0.000	96	6244	0.0432	7M
25 Benzo[a]pyrene	252	12.201	12.196	0.005	93	12664	0.1188	
28 Benzo[g,h,i]perylene	276	14.389	14.357	0.032	72	13408	0.1326	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

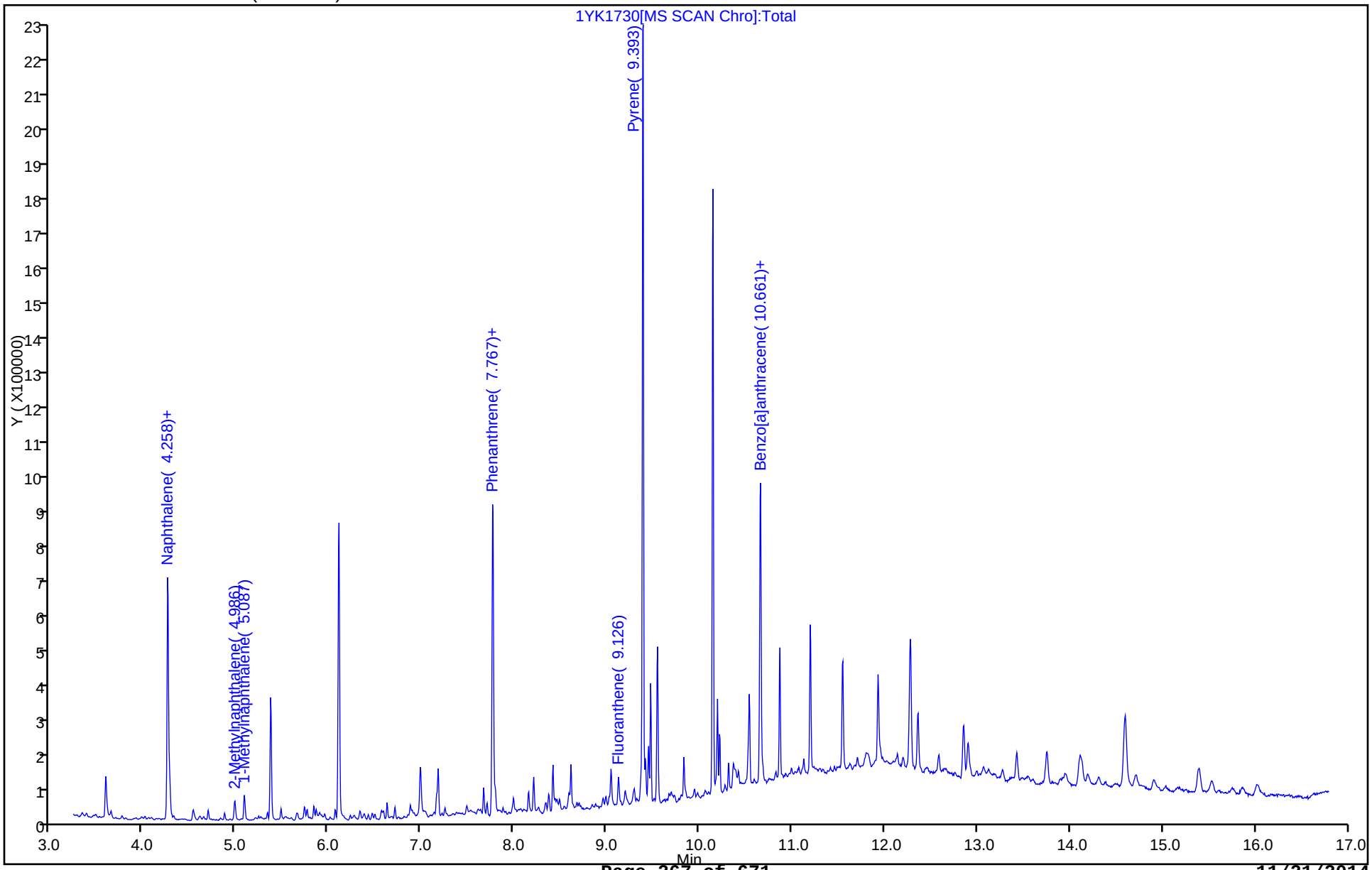
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Nov-2014 08:49:50 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1730.D				
Injection Date:	18-Nov-2014 21:49:30	Instrument ID:	CMSY	Operator ID:	
Lims ID:	680-107159-B-14-A	Lab Sample ID:	680-107159-14	Worklist Smp#:	30
Client ID:	FM0281G-CS12"				
Injection Vol:	2.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	30
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)

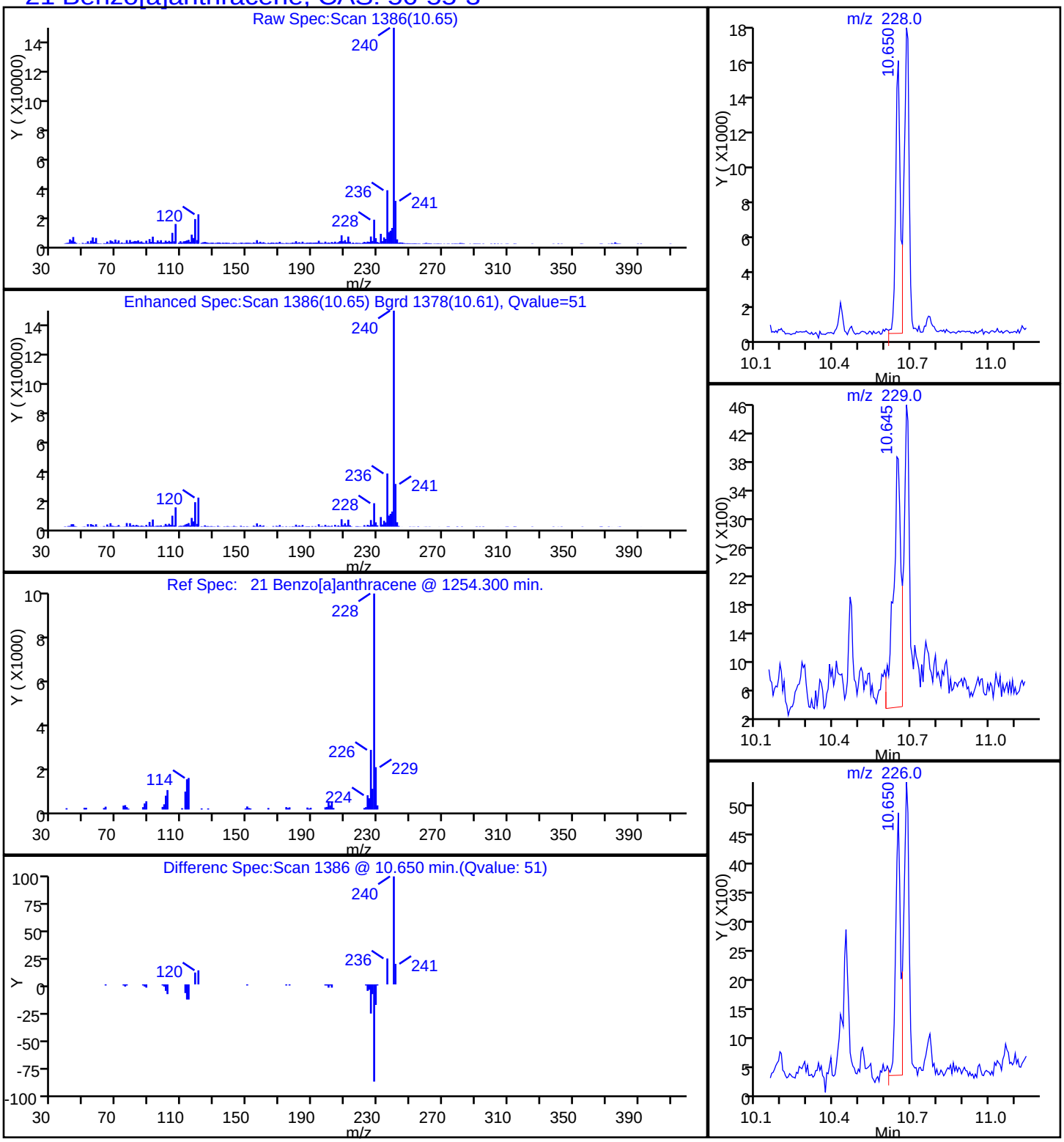


Report Date: 19-Nov-2014 08:49:50 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1730.D				
Injection Date:	18-Nov-2014 21:49:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-14-A	Lab Sample ID:	680-107159-14		
Client ID:	FM0281G-CS12"				
Operator ID:		ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

21 Benzo[a]anthracene, CAS: 56-55-3

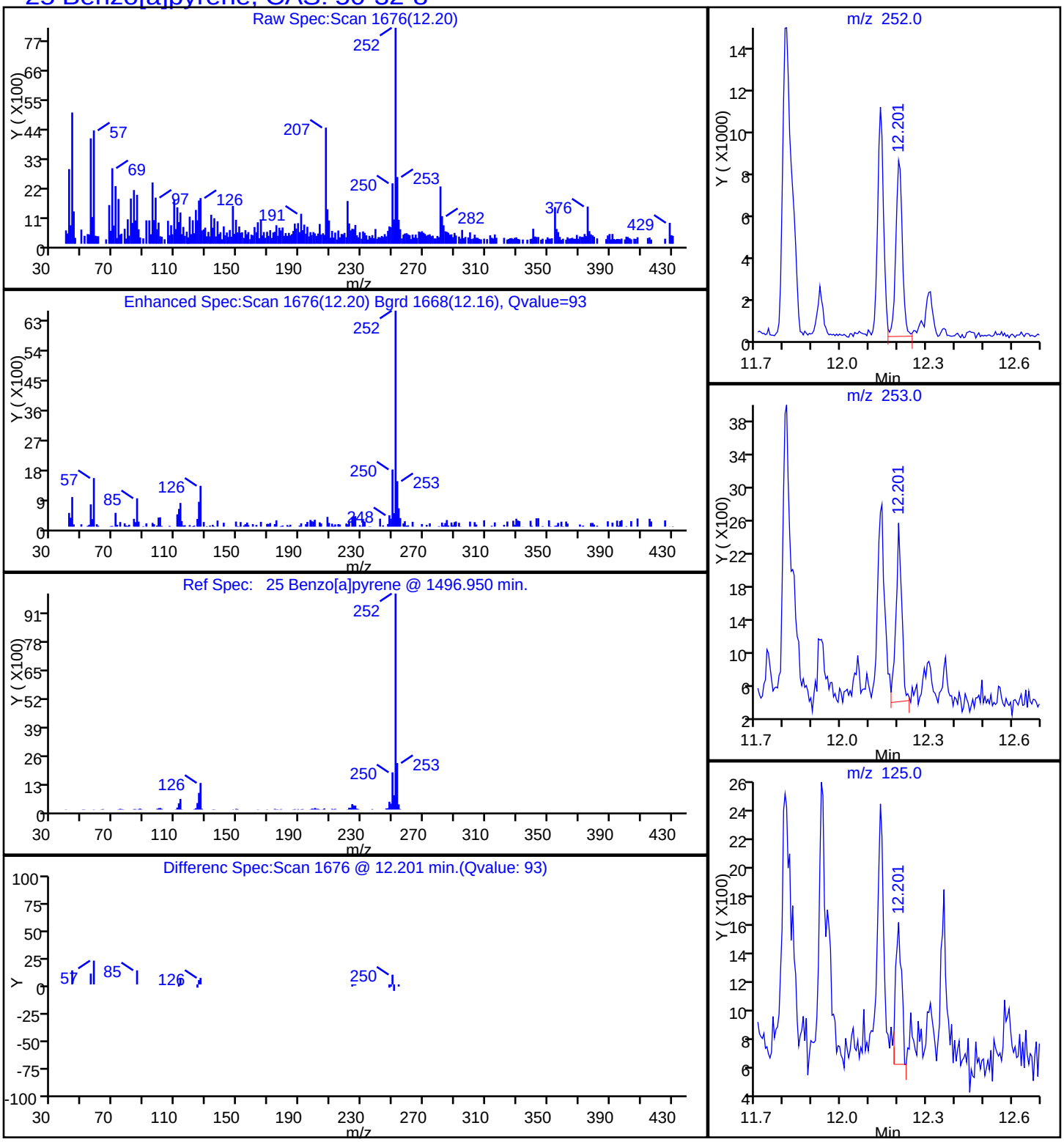


Report Date: 19-Nov-2014 08:49:50 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1730.D				
Injection Date:	18-Nov-2014 21:49:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-14-A	Lab Sample ID:	680-107159-14		
Client ID:	FM0281G-CS12"				
Operator ID:		ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

25 Benzo[a]pyrene, CAS: 50-32-8

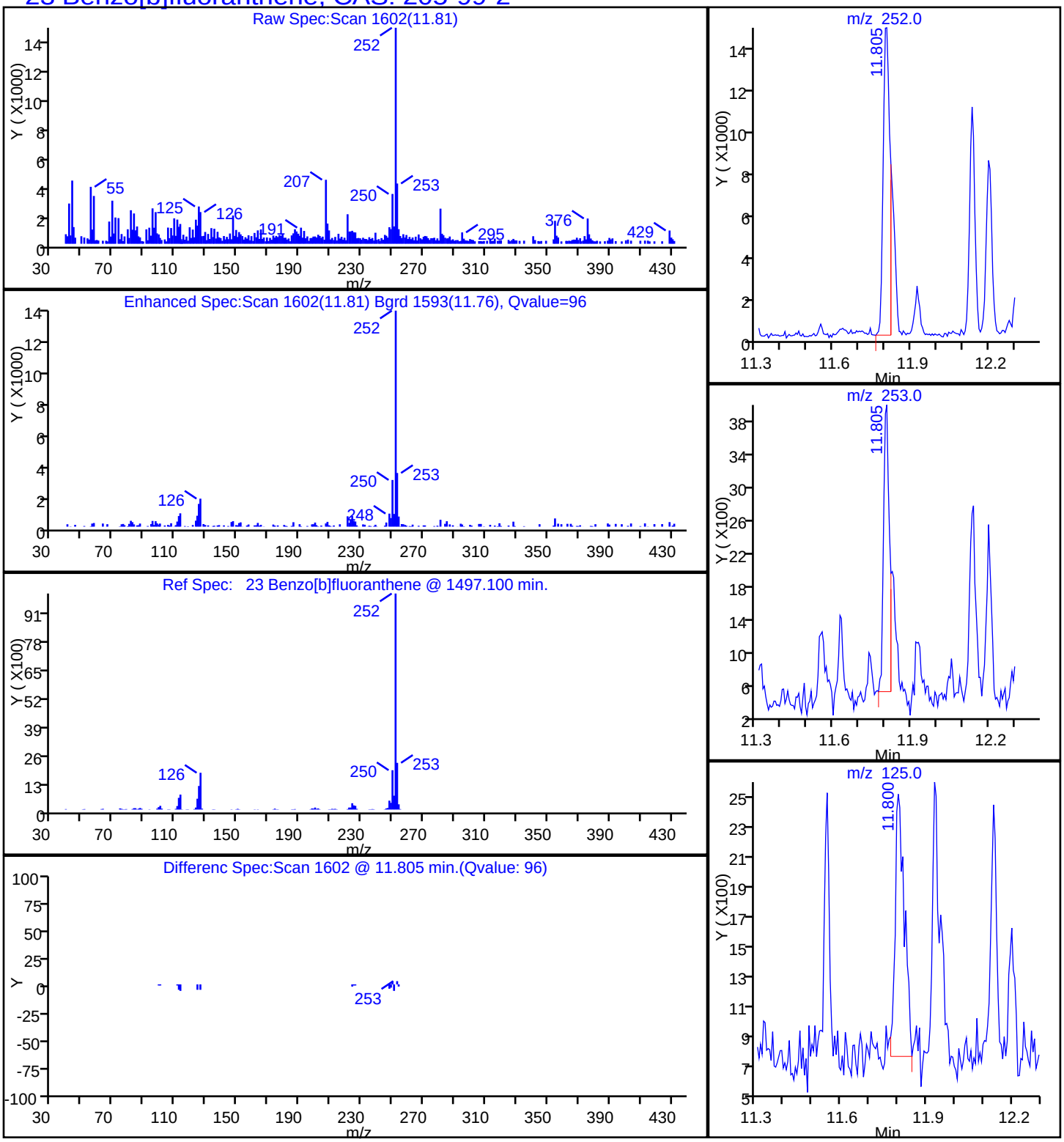


Report Date: 19-Nov-2014 08:49:50 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1730.D				
Injection Date:	18-Nov-2014 21:49:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-14-A	Lab Sample ID:	680-107159-14		
Client ID:	FM0281G-CS12"				
Operator ID:		ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

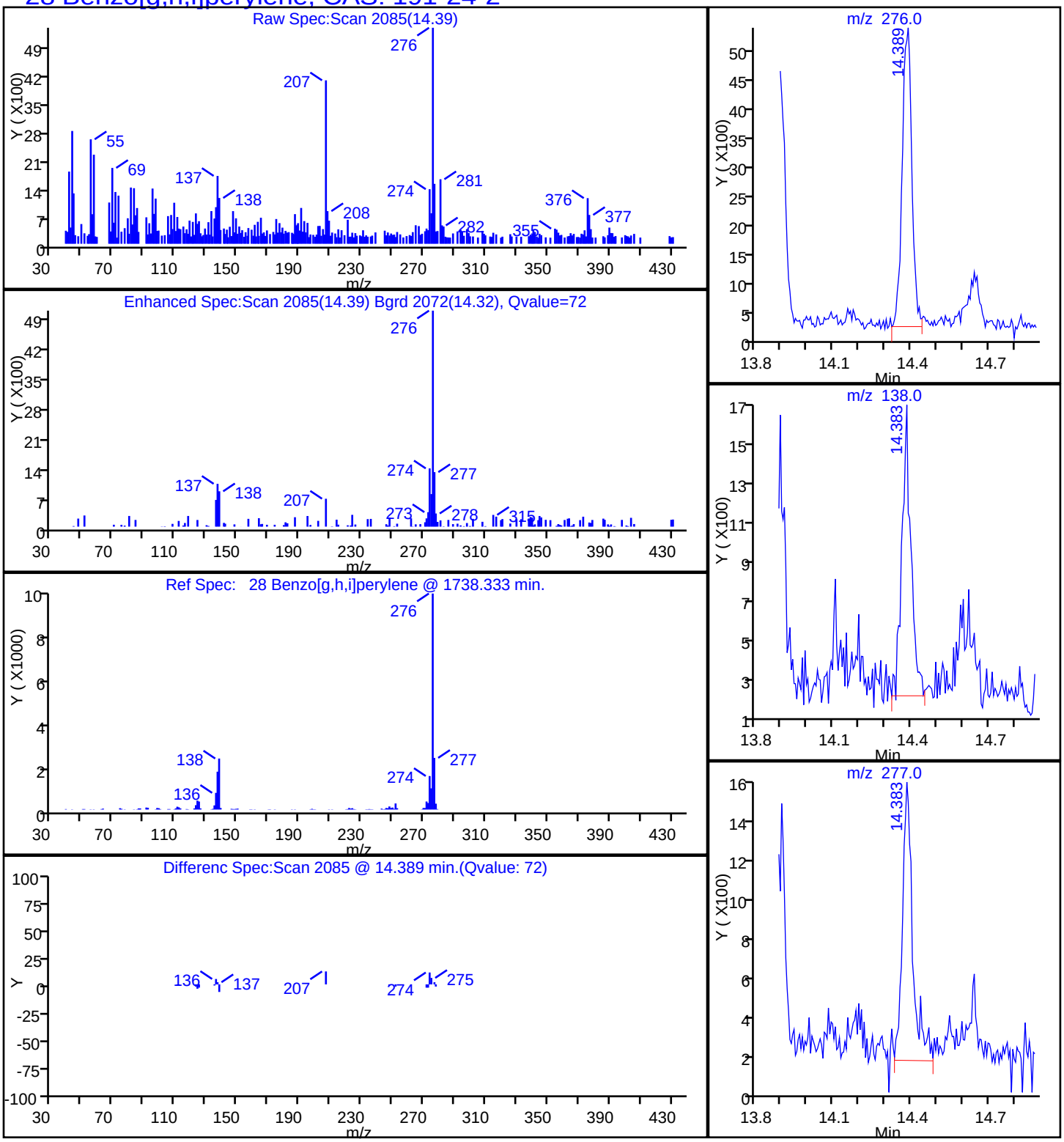


Report Date: 19-Nov-2014 08:49:50 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1730.D				
Injection Date:	18-Nov-2014 21:49:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-14-A	Lab Sample ID:	680-107159-14		
Client ID:	FM0281G-CS12"				
Operator ID:		ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

28 Benzo[g,h,i]perylene, CAS: 191-24-2

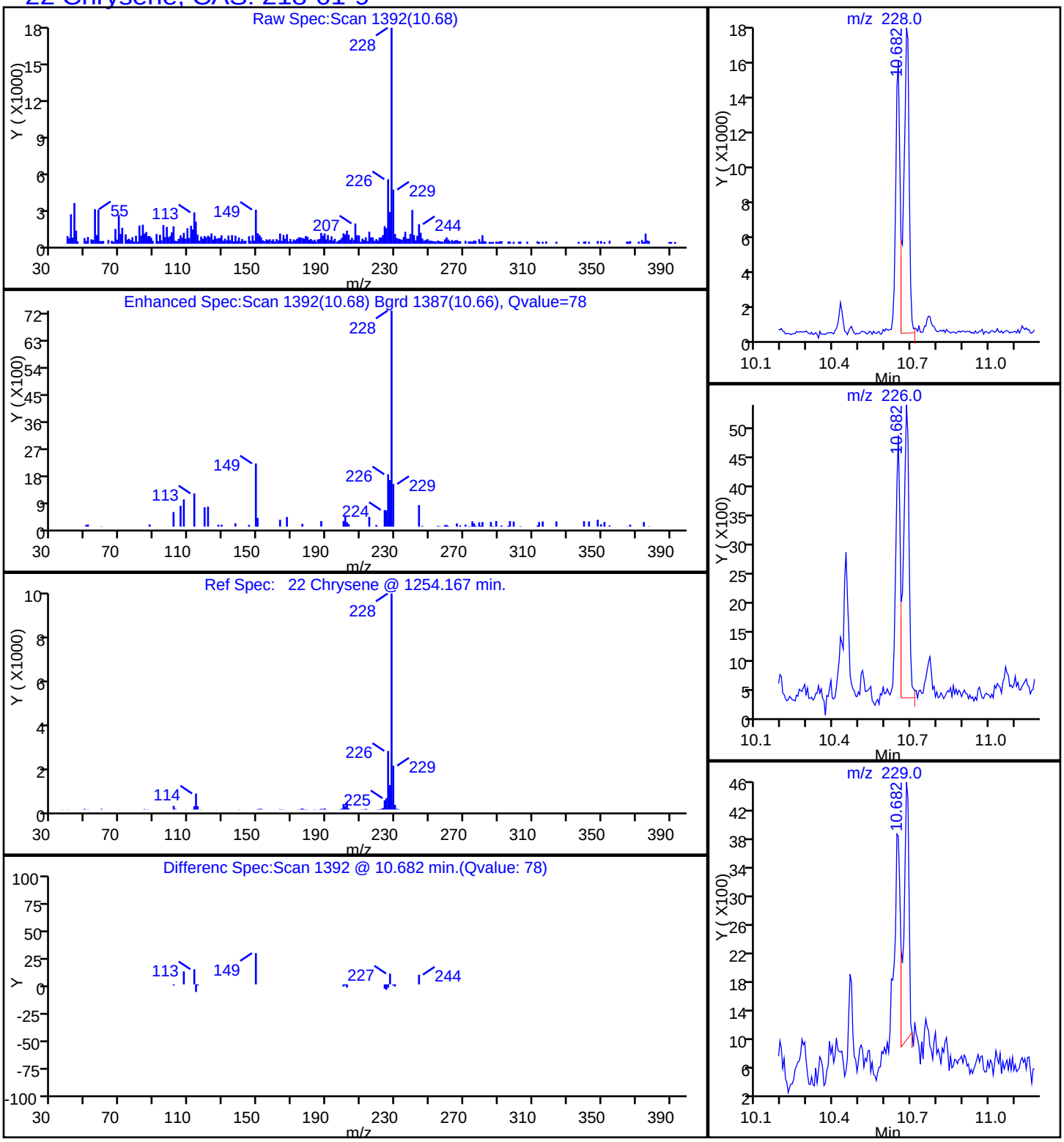


Report Date: 19-Nov-2014 08:49:50 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1730.D				
Injection Date:	18-Nov-2014 21:49:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-14-A	Lab Sample ID:	680-107159-14		
Client ID:	FM0281G-CS12"				
Operator ID:		ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Chrysene, CAS: 218-01-9

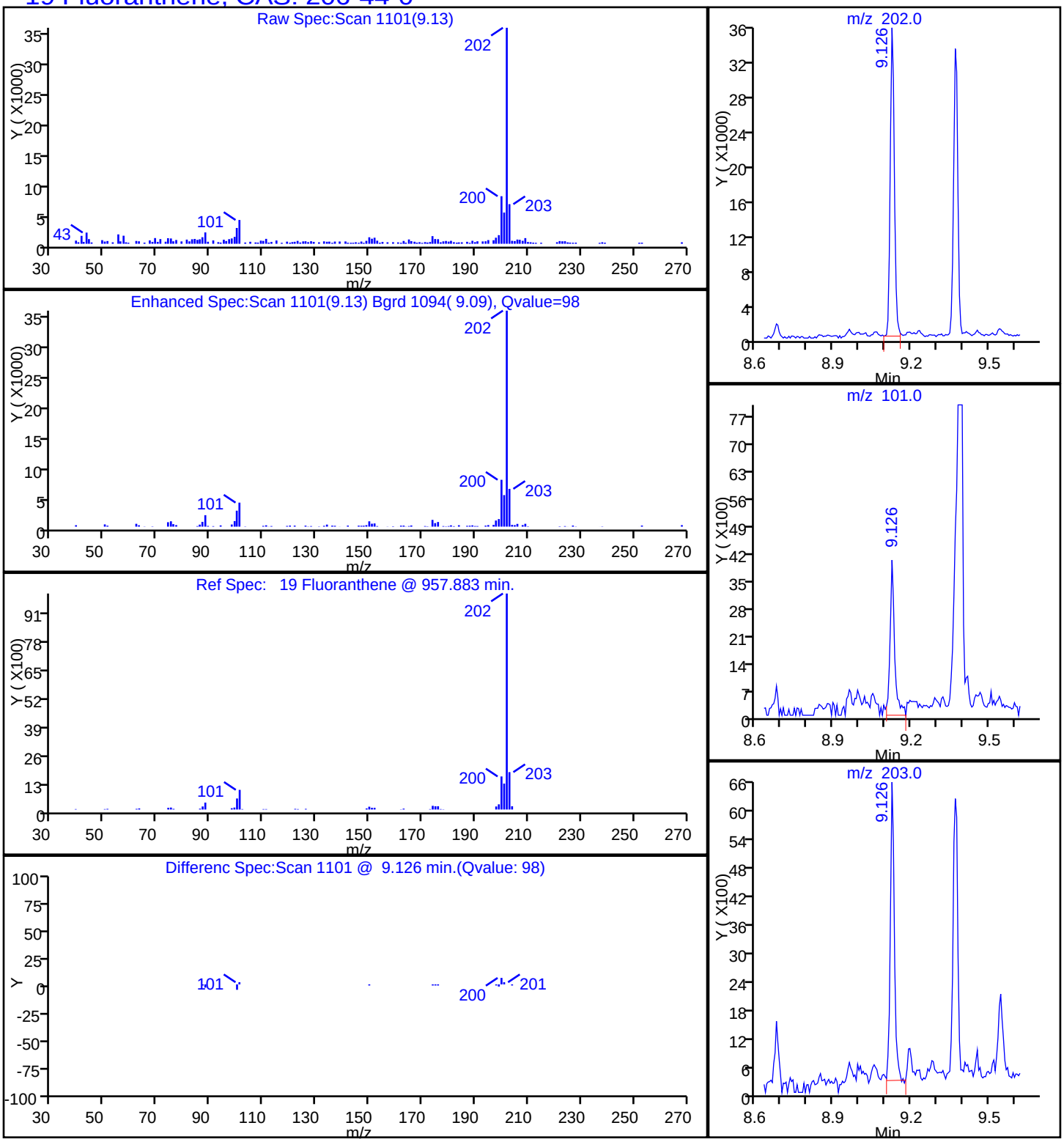


Report Date: 19-Nov-2014 08:49:50 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1730.D				
Injection Date:	18-Nov-2014 21:49:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-14-A	Lab Sample ID:	680-107159-14		
Client ID:	FM0281G-CS12"				
Operator ID:		ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 Fluoranthene, CAS: 206-44-0

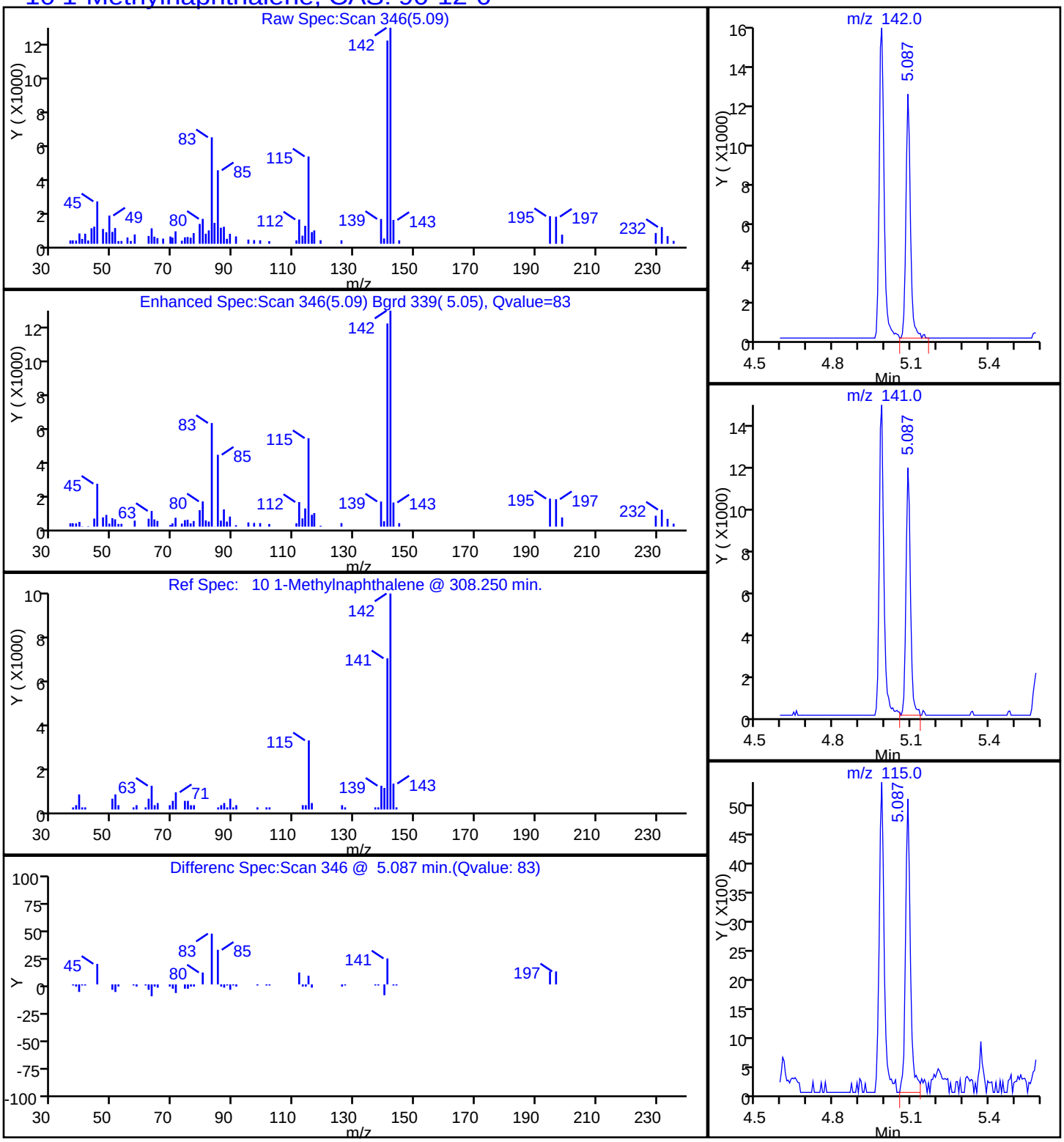


Report Date: 19-Nov-2014 08:49:50 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1730.D				
Injection Date:	18-Nov-2014 21:49:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-14-A	Lab Sample ID:	680-107159-14		
Client ID:	FM0281G-CS12"				
Operator ID:		ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

10 1-Methylnaphthalene, CAS: 90-12-0

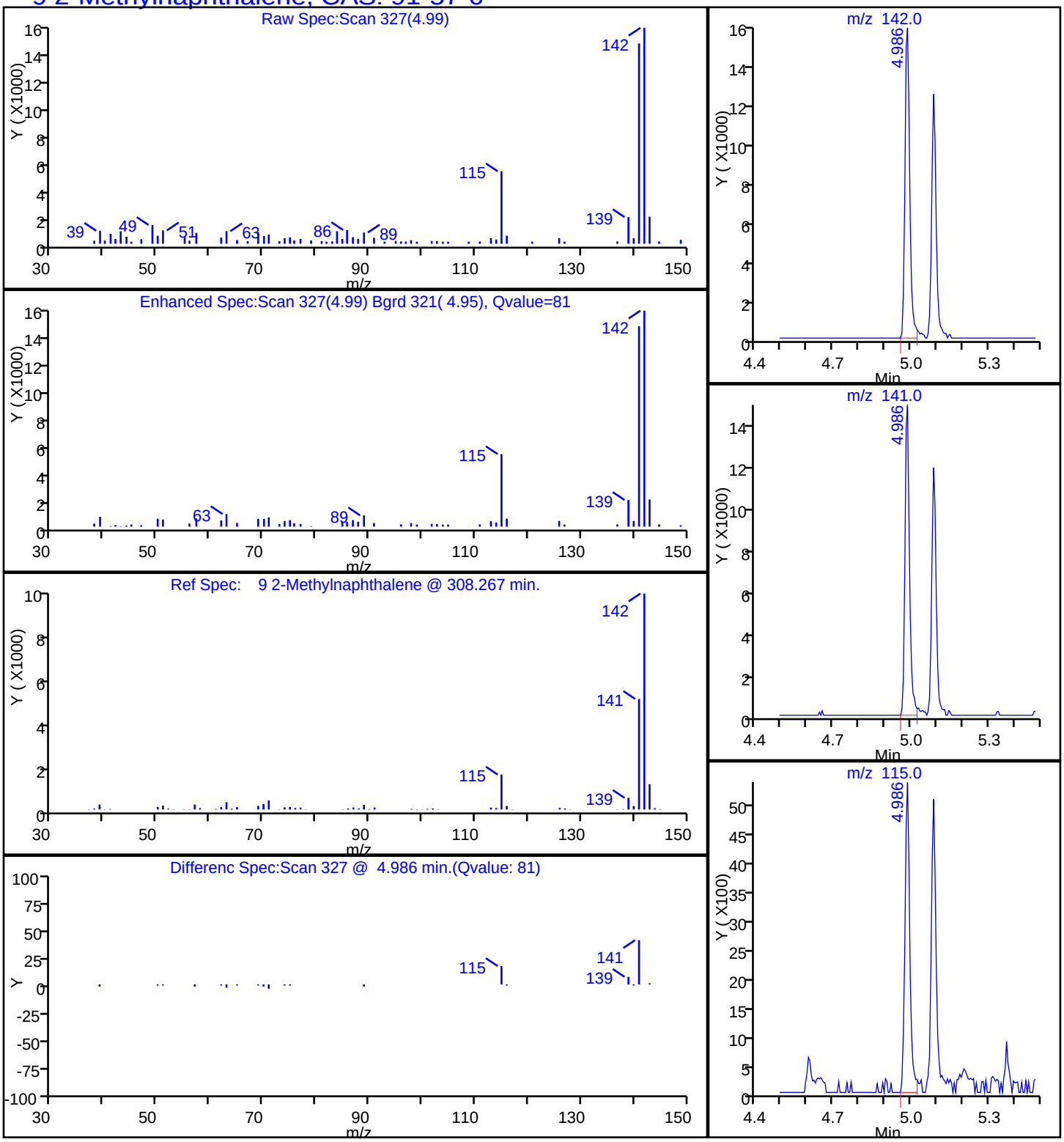


Report Date: 19-Nov-2014 08:49:50 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1730.D				
Injection Date:	18-Nov-2014 21:49:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-14-A	Lab Sample ID:	680-107159-14		
Client ID:	FM0281G-CS12"				
Operator ID:		ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

9 2-Methylnaphthalene, CAS: 91-57-6

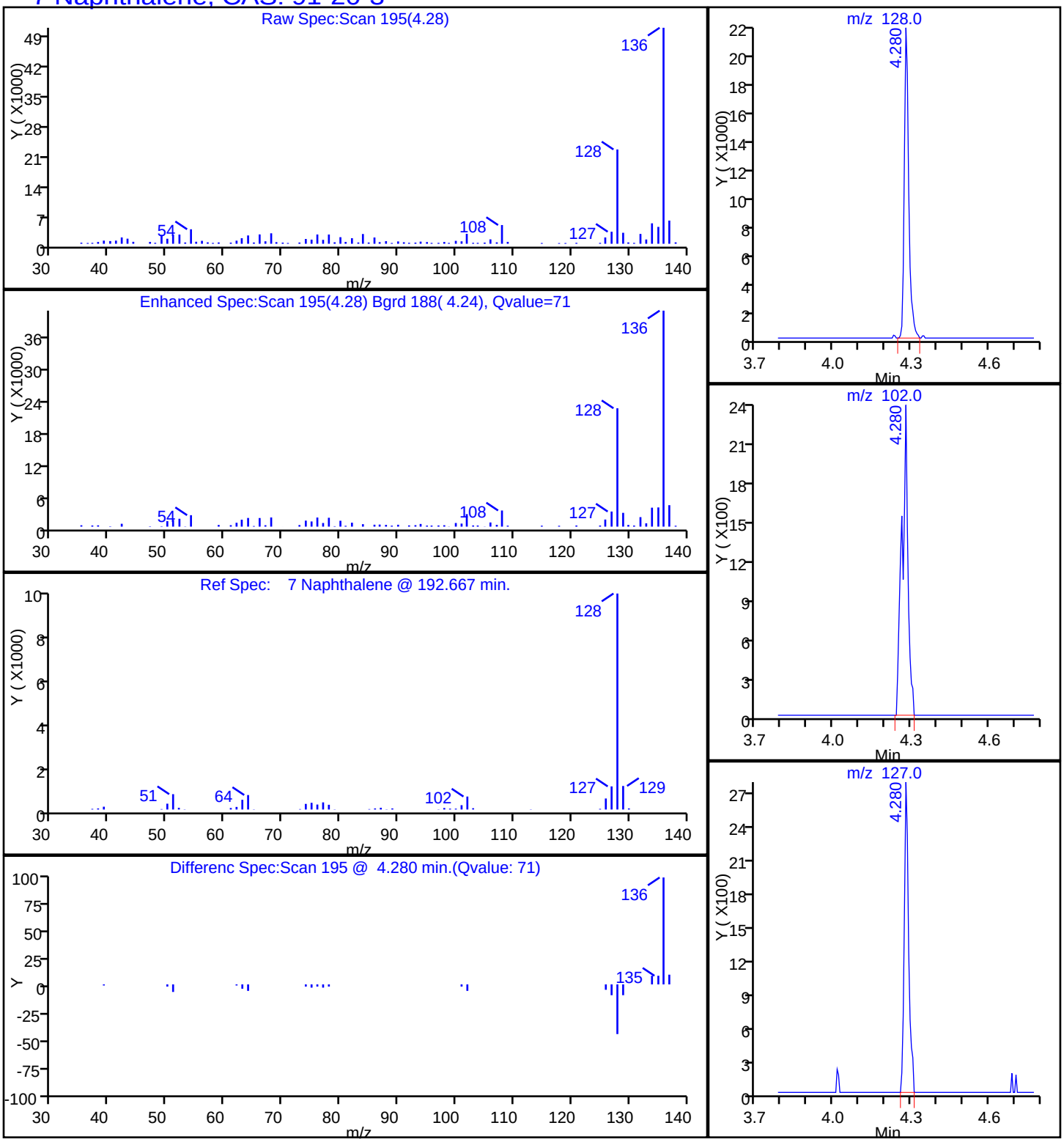


Report Date: 19-Nov-2014 08:49:50 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1730.D				
Injection Date:	18-Nov-2014 21:49:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-14-A	Lab Sample ID:	680-107159-14		
Client ID:	FM0281G-CS12"				
Operator ID:		ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Naphthalene, CAS: 91-20-3

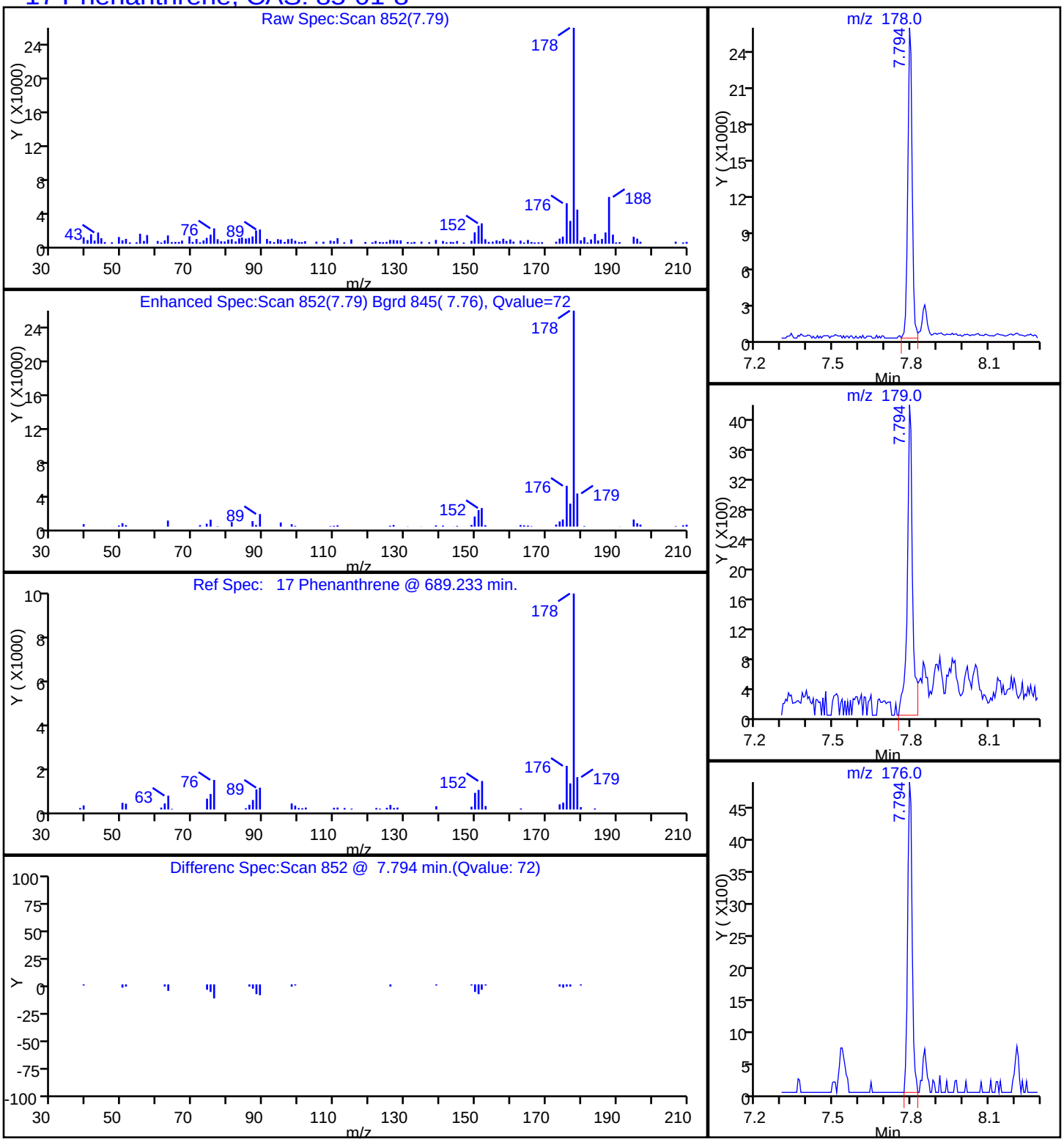


Report Date: 19-Nov-2014 08:49:50 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1730.D				
Injection Date:	18-Nov-2014 21:49:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-14-A	Lab Sample ID:	680-107159-14		
Client ID:	FM0281G-CS12"				
Operator ID:		ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Phenanthrene, CAS: 85-01-8

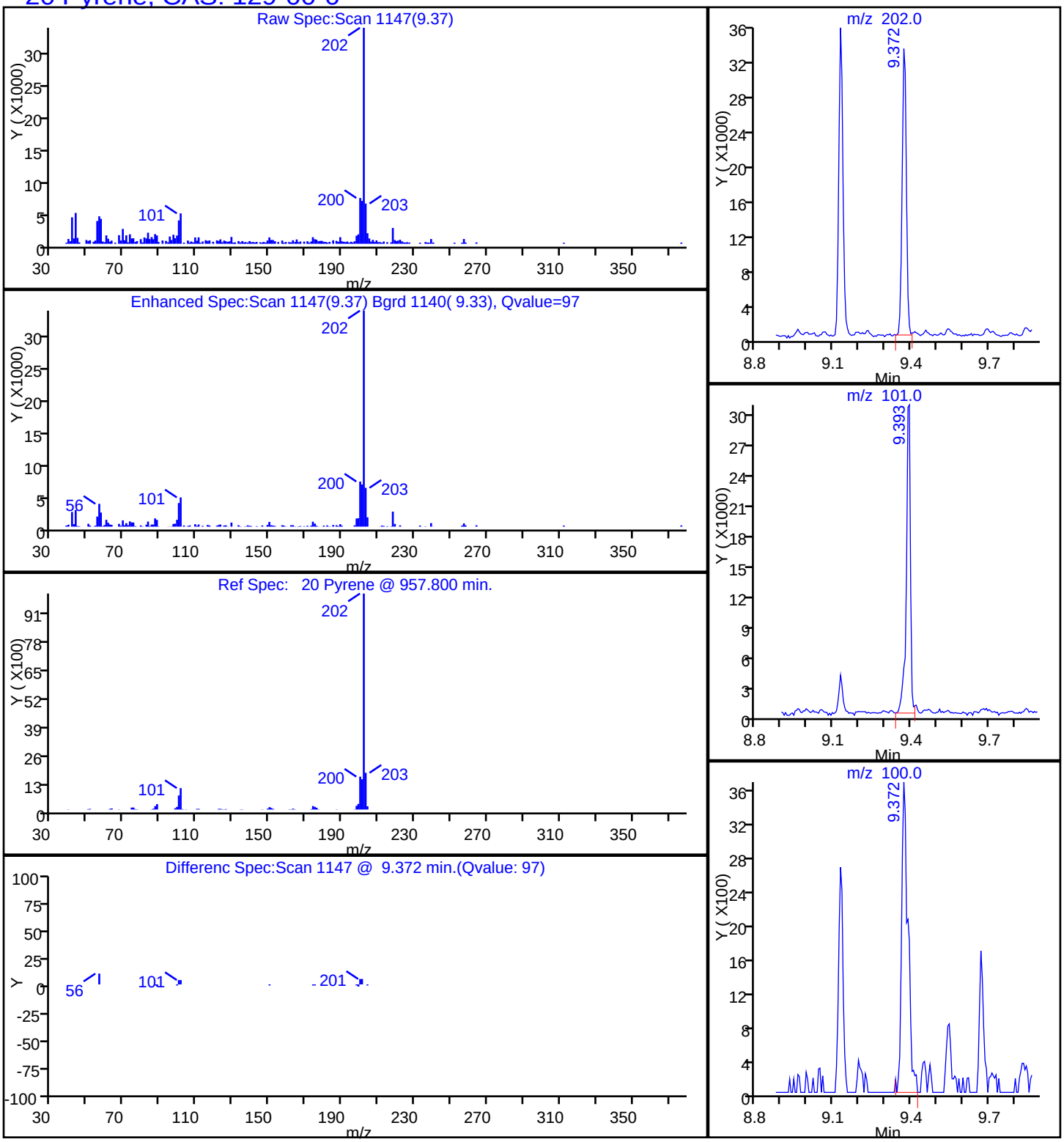


Report Date: 19-Nov-2014 08:49:50 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1730.D				
Injection Date:	18-Nov-2014 21:49:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-14-A	Lab Sample ID:	680-107159-14		
Client ID:	FM0281G-CS12"				
Operator ID:		ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

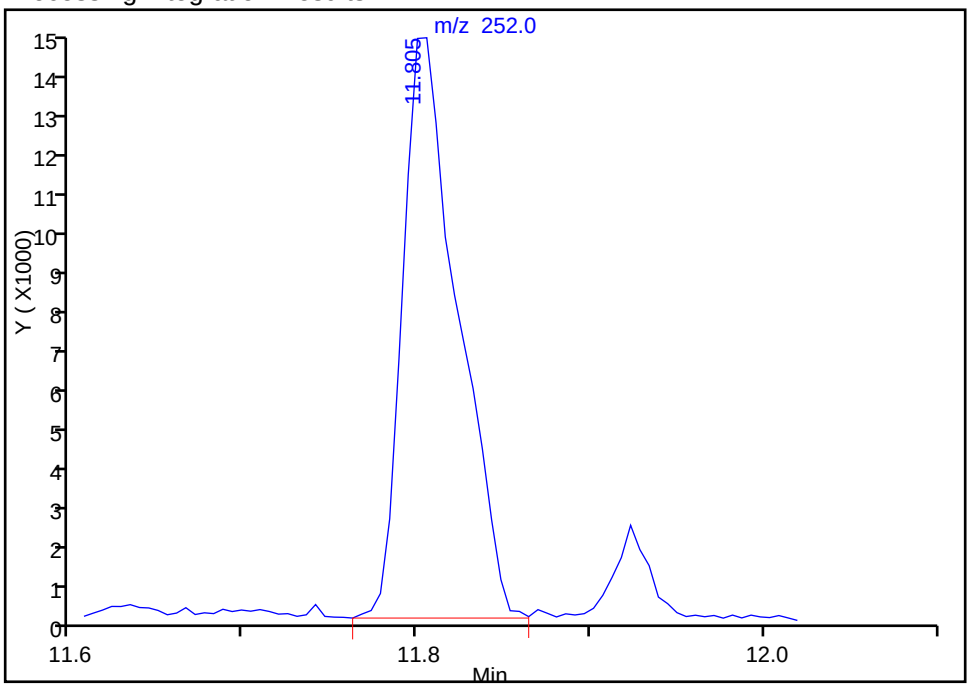
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1730.D				
Injection Date:	18-Nov-2014 21:49:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-14-A	Lab Sample ID:	680-107159-14		
Client ID:	FM0281G-CS12"				
Operator ID:		ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

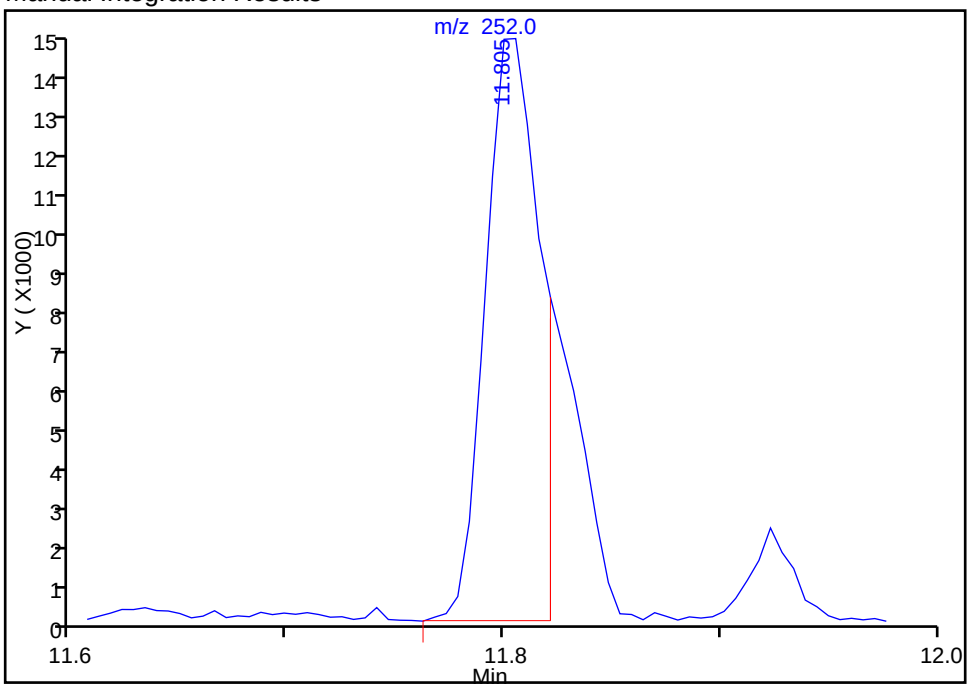
Processing Integration Results

RT: 11.81
Response: 30540
Amount: 0.227514



Manual Integration Results

RT: 11.81
Response: 24217
Amount: 0.180410



Reviewer: webbk, 19-Nov-2014 08:07:23
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

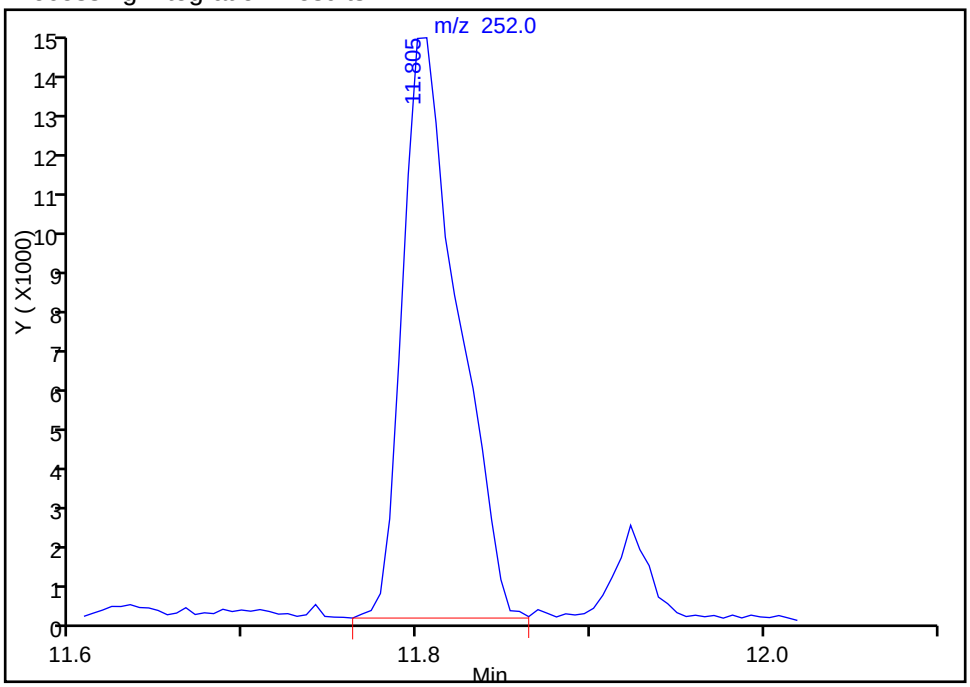
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1730.D				
Injection Date:	18-Nov-2014 21:49:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-14-A	Lab Sample ID:	680-107159-14		
Client ID:	FM0281G-CS12"				
Operator ID:		ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

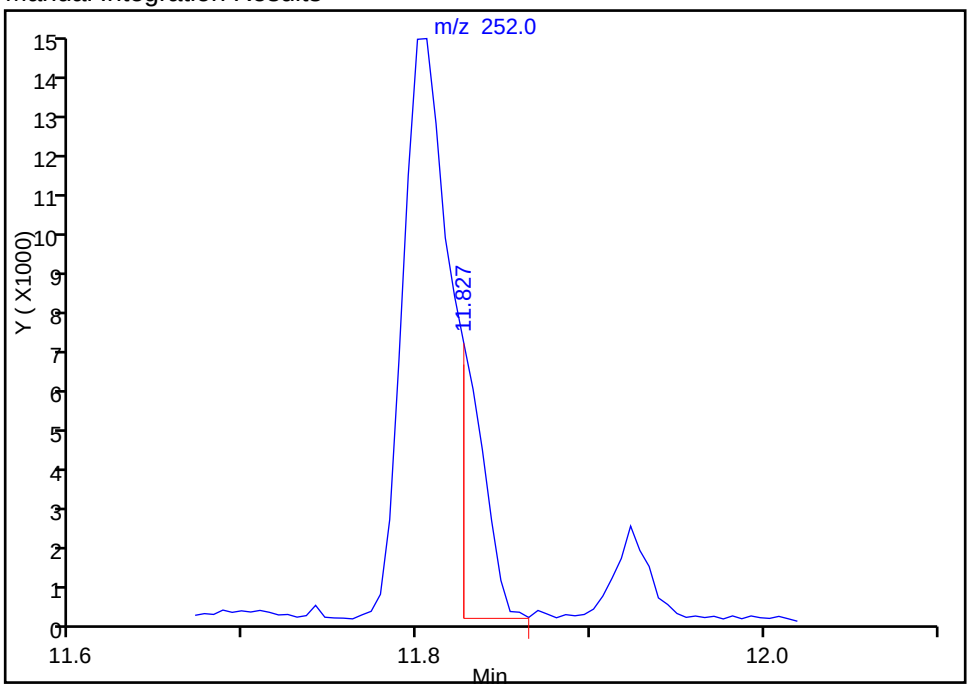
Processing Integration Results

RT: 11.81
Response: 30540
Amount: 0.211944



Manual Integration Results

RT: 11.83
Response: 6244
Amount: 0.043219



Reviewer: webbk, 19-Nov-2014 08:07:23
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281G-CS18" | Lab Sample ID: 680-107159-15

Matrix: Solid | Lab File ID: 1YK1731.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 11:45

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.07(g) | Date Analyzed: 11/18/2014 22:11

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	82	U	82	40
208-96-8	Acenaphthylene	82	U	82	40
120-12-7	Anthracene	82	U	82	40
56-55-3	Benzo[a]anthracene	56	J	82	40
50-32-8	Benzo[a]pyrene	55	J	82	15
205-99-2	Benzo[b]fluoranthene	89		82	40
191-24-2	Benzo[g,h,i]perylene	65	J	82	40
207-08-9	Benzo[k]fluoranthene	82	U	82	25
218-01-9	Chrysene	79	J	82	40
53-70-3	Dibenz(a,h)anthracene	82	U	82	40
206-44-0	Fluoranthene	86		82	40
86-73-7	Fluorene	82	U	82	40
193-39-5	Indeno[1,2,3-cd]pyrene	40	J	82	40
90-12-0	1-Methylnaphthalene	38	J	82	38
91-57-6	2-Methylnaphthalene	42	J	82	40
91-20-3	Naphthalene	82	U	82	40
85-01-8	Phenanthrene	67	J	82	29
129-00-0	Pyrene	91		82	40

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1731.D
Lims ID: 680-107159-B-15-A Lab Sample ID: 680-107159-15
Client ID: FM0281G-CS18"
Sample Type: Client
Inject. Date: 18-Nov-2014 22:11:30 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Sample Info: 107159-B-15-A 1:10
Misc. Info.: 680-0014871-031
Operator ID: Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 19-Nov-2014 08:10:37 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: webbk Date: 19-Nov-2014 08:08:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.258	4.264	-0.006	99	461346	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	92	265053	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	458928	2.00	
* 4 Chrysene-d12	240	10.661	10.655	0.005	99	345141	2.00	
* 5 Perylene-d12	264	12.276	12.265	0.011	99	232864	2.00	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	84	16269	0.1035	
10 1-Methylnaphthalene	142	5.087	5.087	0.000	88	13323	0.0930	
17 Phenanthrene	178	7.794	7.794	0.000	96	43721	0.1632	
18 Anthracene	178	7.852	7.853	-0.001	75	4360	0.0173	7
19 Fluoranthene	202	9.125	9.126	-0.001	98	55025	0.2093	
20 Pyrene	202	9.371	9.372	-0.001	98	47957	0.2231	
21 Benzo[a]anthracene	228	10.650	10.645	0.005	97	26193	0.1361	
22 Chrysene	228	10.682	10.682	0.000	99	33041	0.1931	
23 Benzo[b]fluoranthene	252	11.800	11.795	0.005	98	31360	0.2185	M
24 Benzo[k]fluoranthene	252	11.827	11.827	0.000	98	8793	0.0569	7M
25 Benzo[a]pyrene	252	12.206	12.196	0.010	97	15386	0.1349	
26 Indeno[1,2,3-cd]pyrene	276	13.891	13.870	0.021	98	14594	0.0977	
28 Benzo[g,h,i]perylene	276	14.389	14.357	0.031	97	17289	0.1599	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

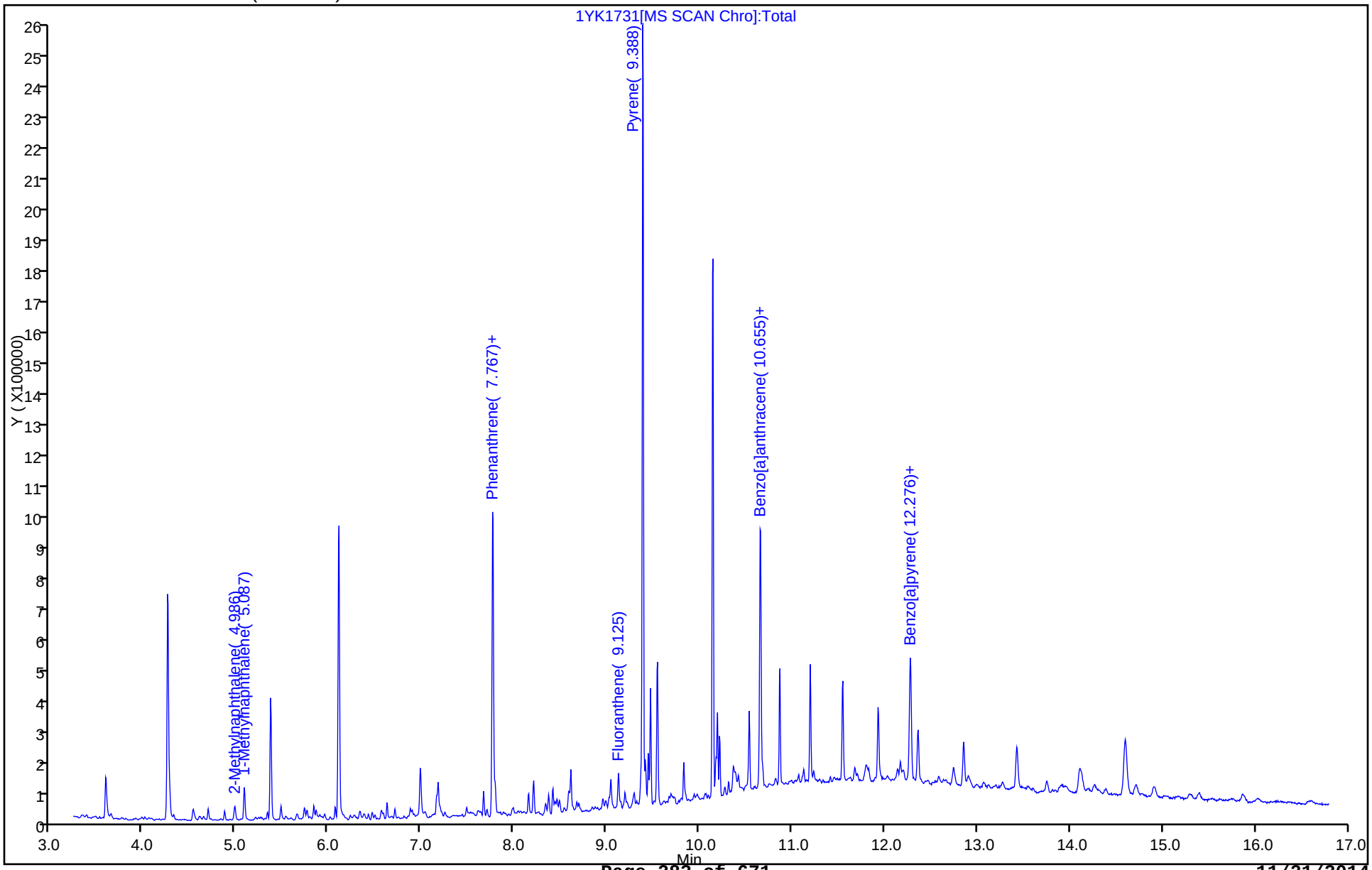
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Nov-2014 08:49:51 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1731.D				
Injection Date:	18-Nov-2014 22:11:30	Instrument ID:	CMSY	Operator ID:	
Lims ID:	680-107159-B-15-A	Lab Sample ID:	680-107159-15	Worklist Smp#:	31
Client ID:	FM0281G-CS18"				
Injection Vol:	2.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	31
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)

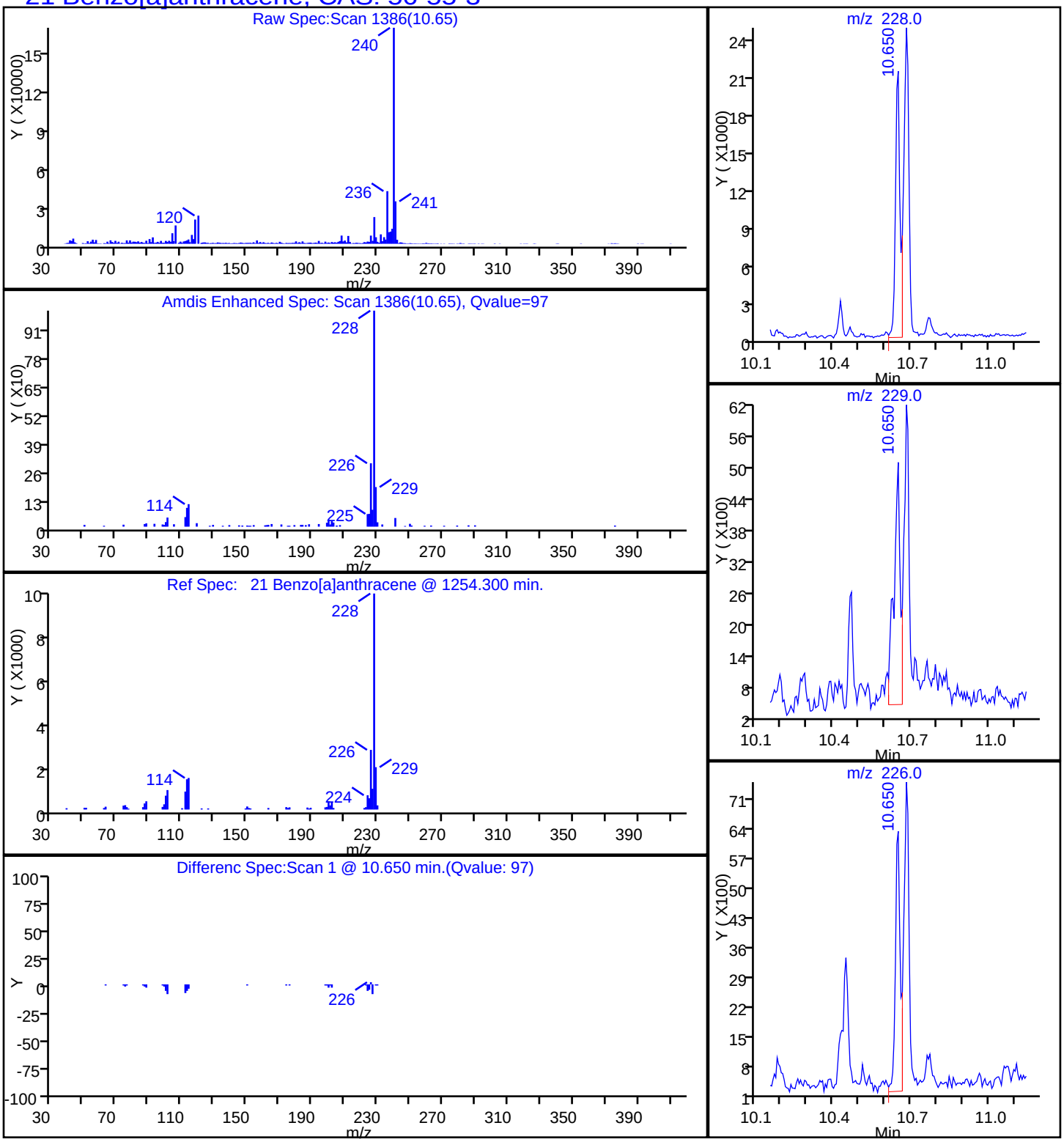


Report Date: 19-Nov-2014 08:49:51 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1731.D				
Injection Date:	18-Nov-2014 22:11:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-15-A	Lab Sample ID:	680-107159-15		
Client ID:	FM0281G-CS18"				
Operator ID:		ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

21 Benzo[a]anthracene, CAS: 56-55-3

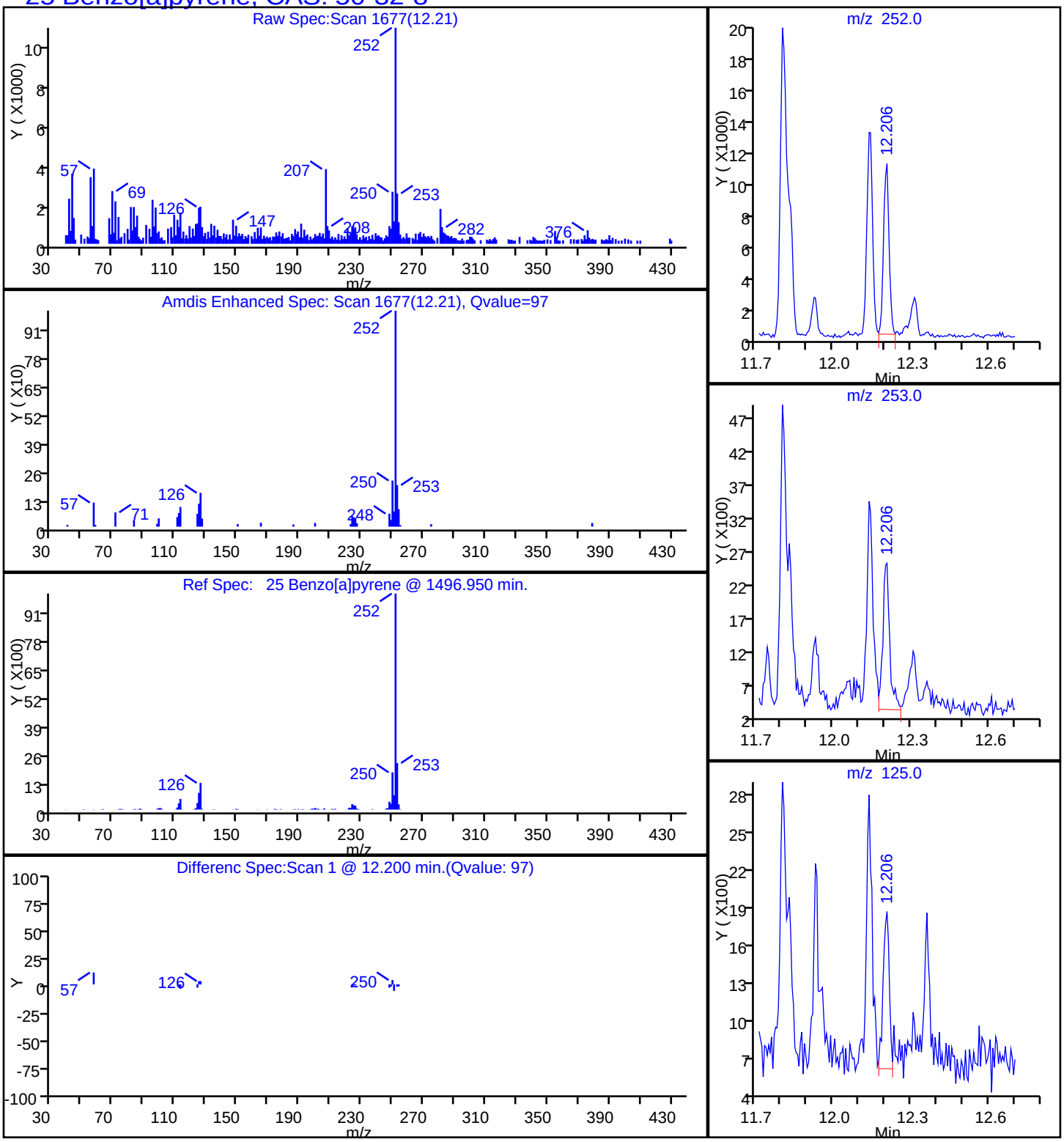


Report Date: 19-Nov-2014 08:49:52 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1731.D				
Injection Date:	18-Nov-2014 22:11:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-15-A	Lab Sample ID:	680-107159-15		
Client ID:	FM0281G-CS18"				
Operator ID:		ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

25 Benzo[a]pyrene, CAS: 50-32-8

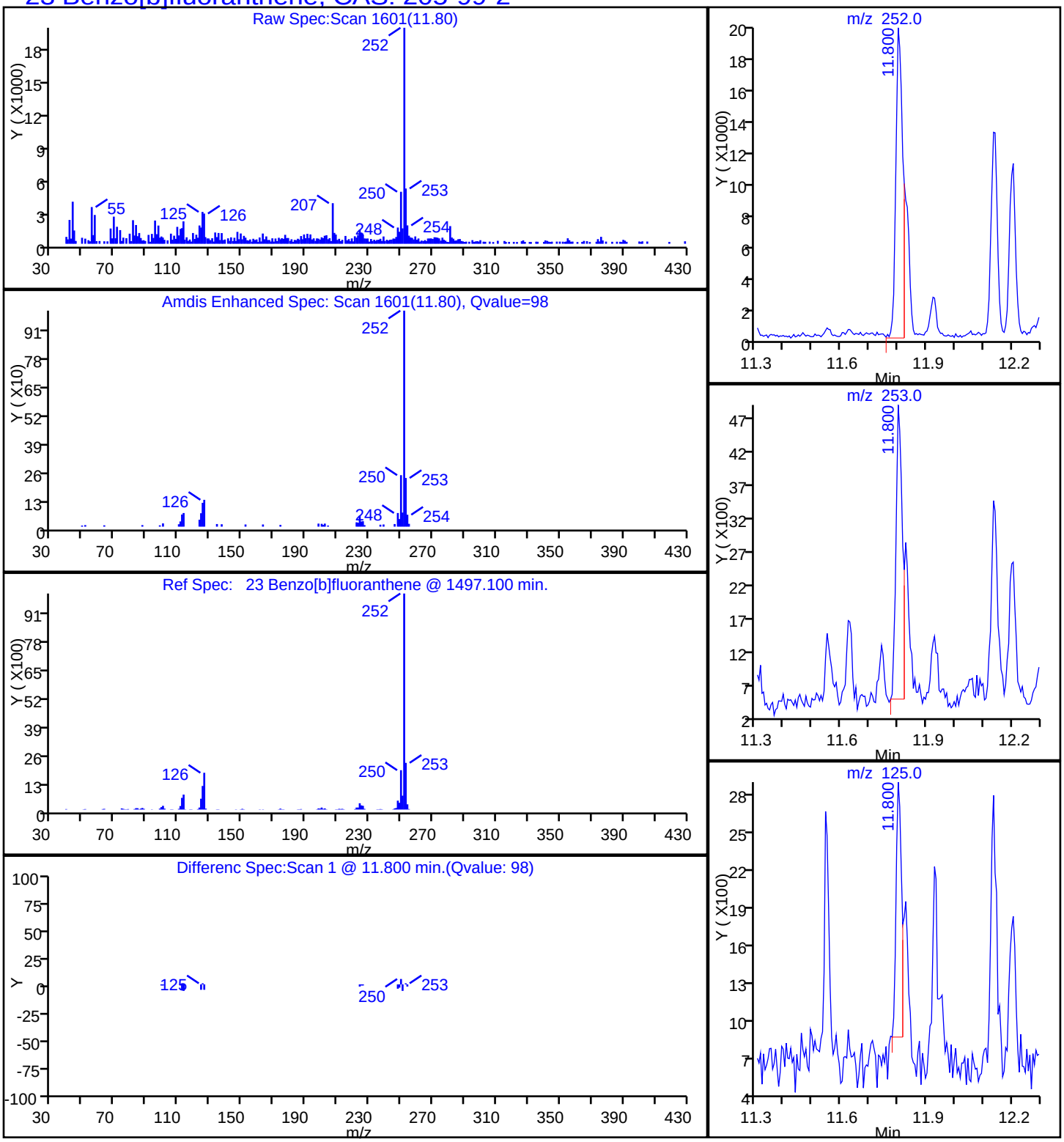


Report Date: 19-Nov-2014 08:49:52 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1731.D				
Injection Date:	18-Nov-2014 22:11:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-15-A	Lab Sample ID:	680-107159-15		
Client ID:	FM0281G-CS18"				
Operator ID:		ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

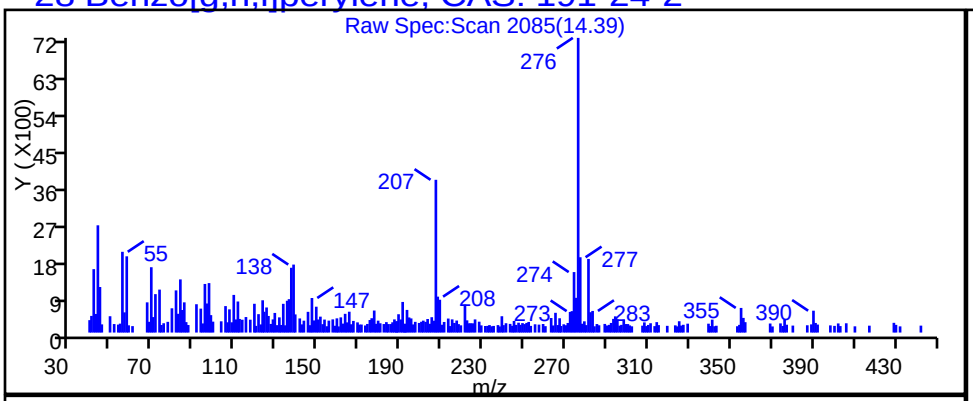


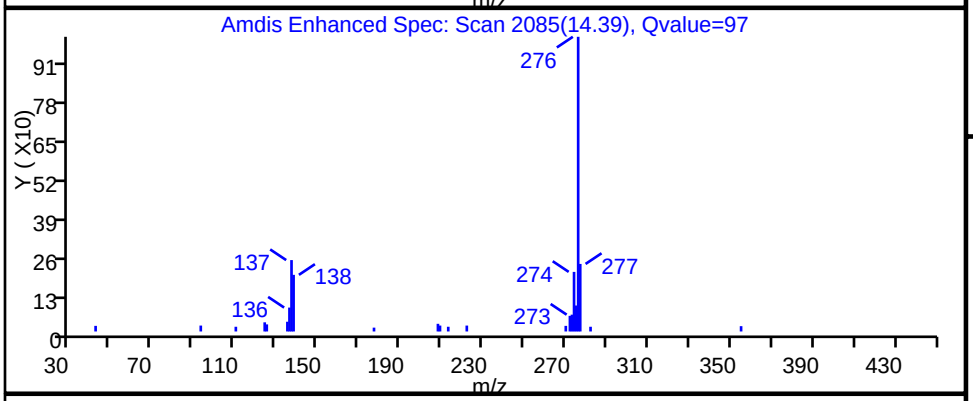
Report Date: 19-Nov-2014 08:49:52 Chrom Revision: 2.2 06-Nov-2014 14:50:32

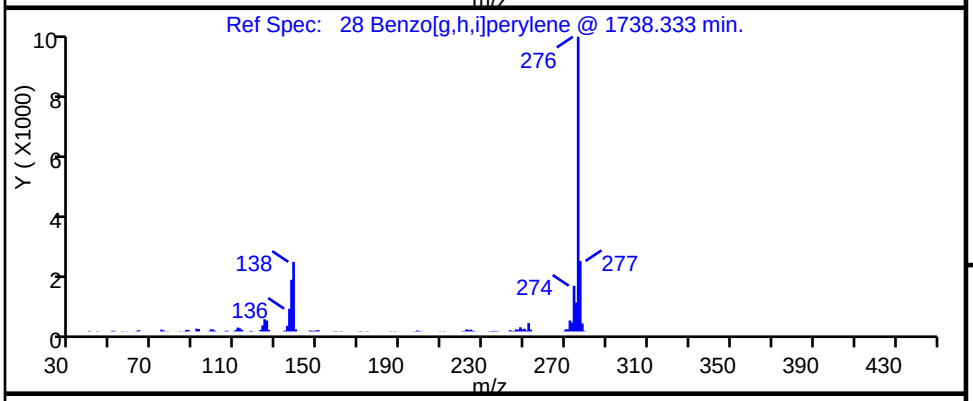
TestAmerica Savannah

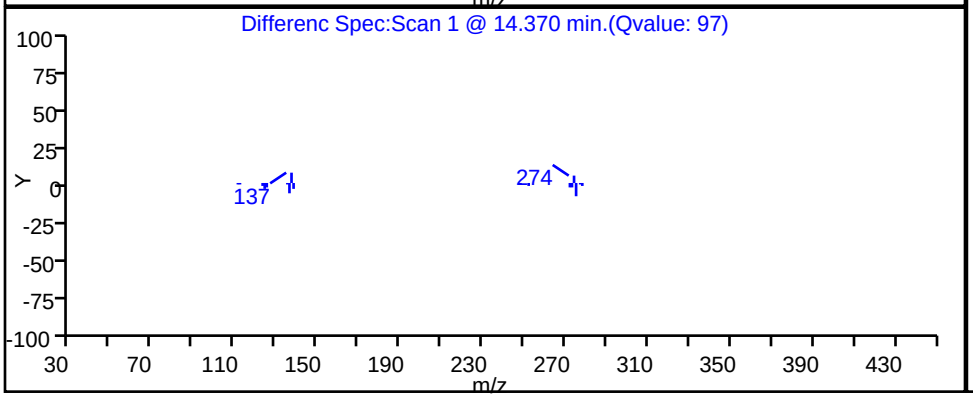
Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1731.D				
Injection Date:	18-Nov-2014 22:11:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-15-A	Lab Sample ID:	680-107159-15		
Client ID:	FM0281G-CS18"				
Operator ID:		ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

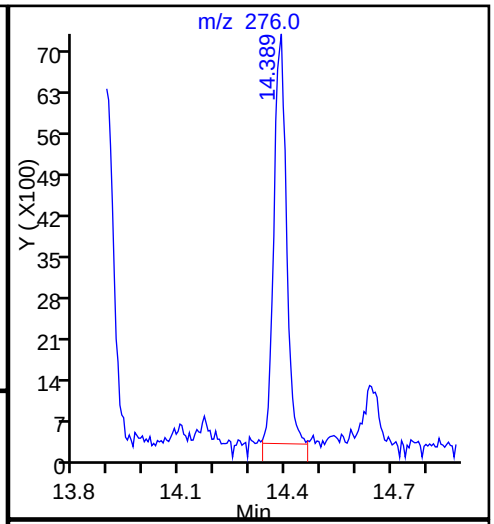
28 Benzo[g,h,i]perylene, CAS: 191-24-2

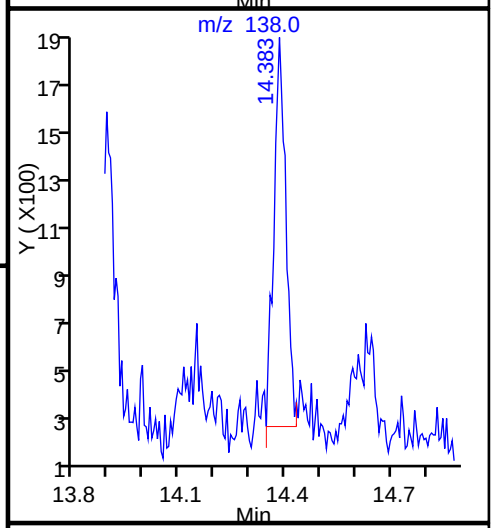


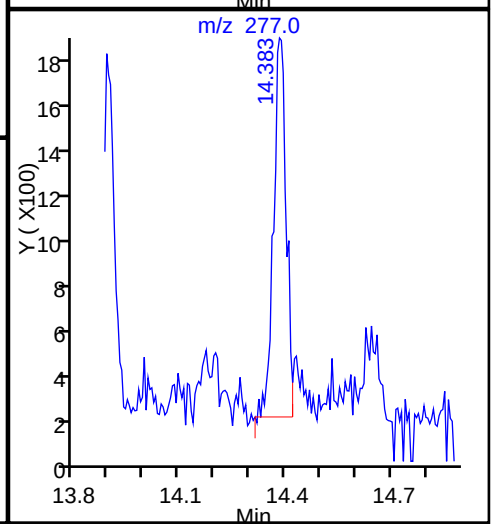










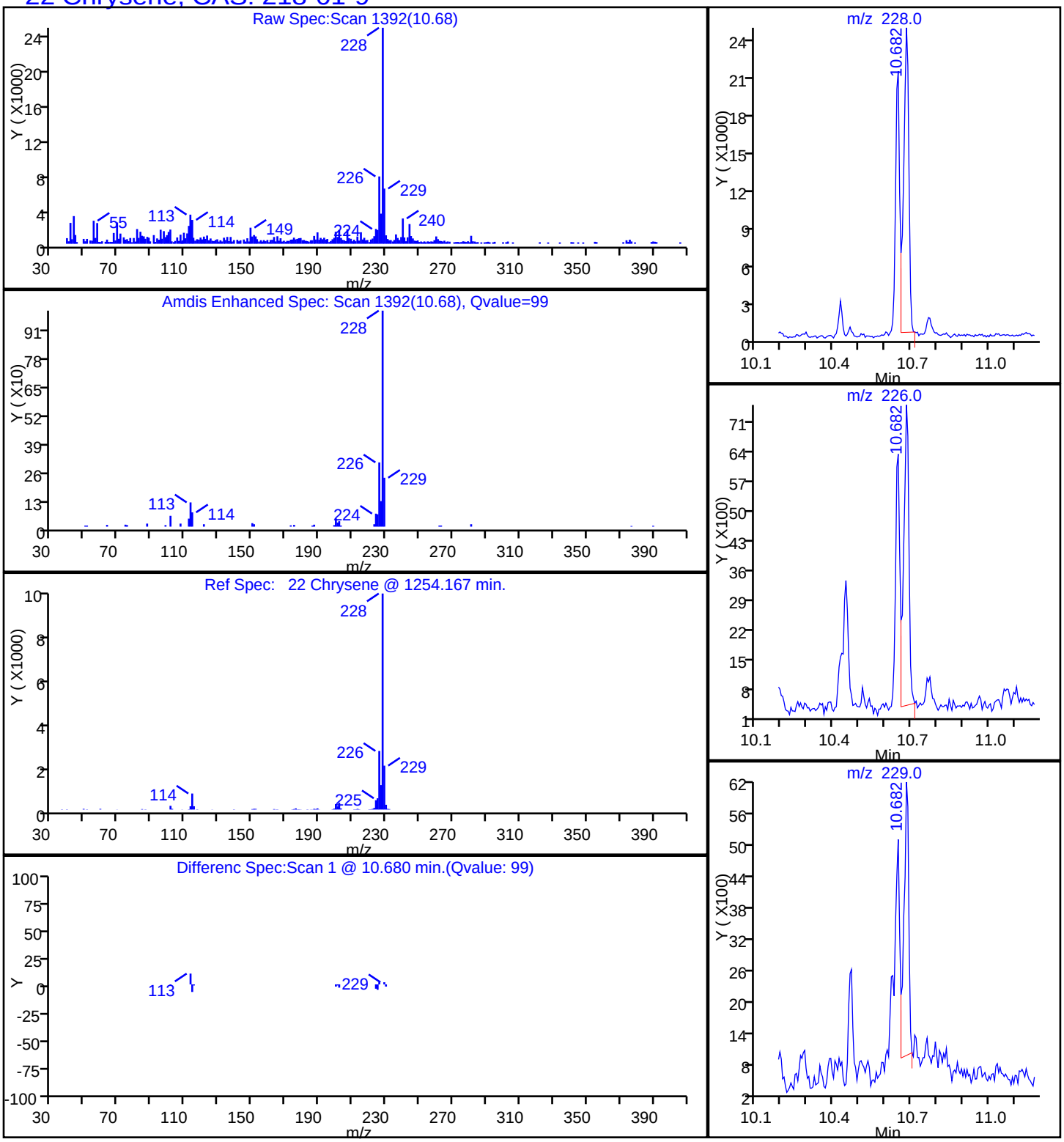


Report Date: 19-Nov-2014 08:49:52 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1731.D				
Injection Date:	18-Nov-2014 22:11:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-15-A	Lab Sample ID:	680-107159-15		
Client ID:	FM0281G-CS18"				
Operator ID:		ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Chrysene, CAS: 218-01-9

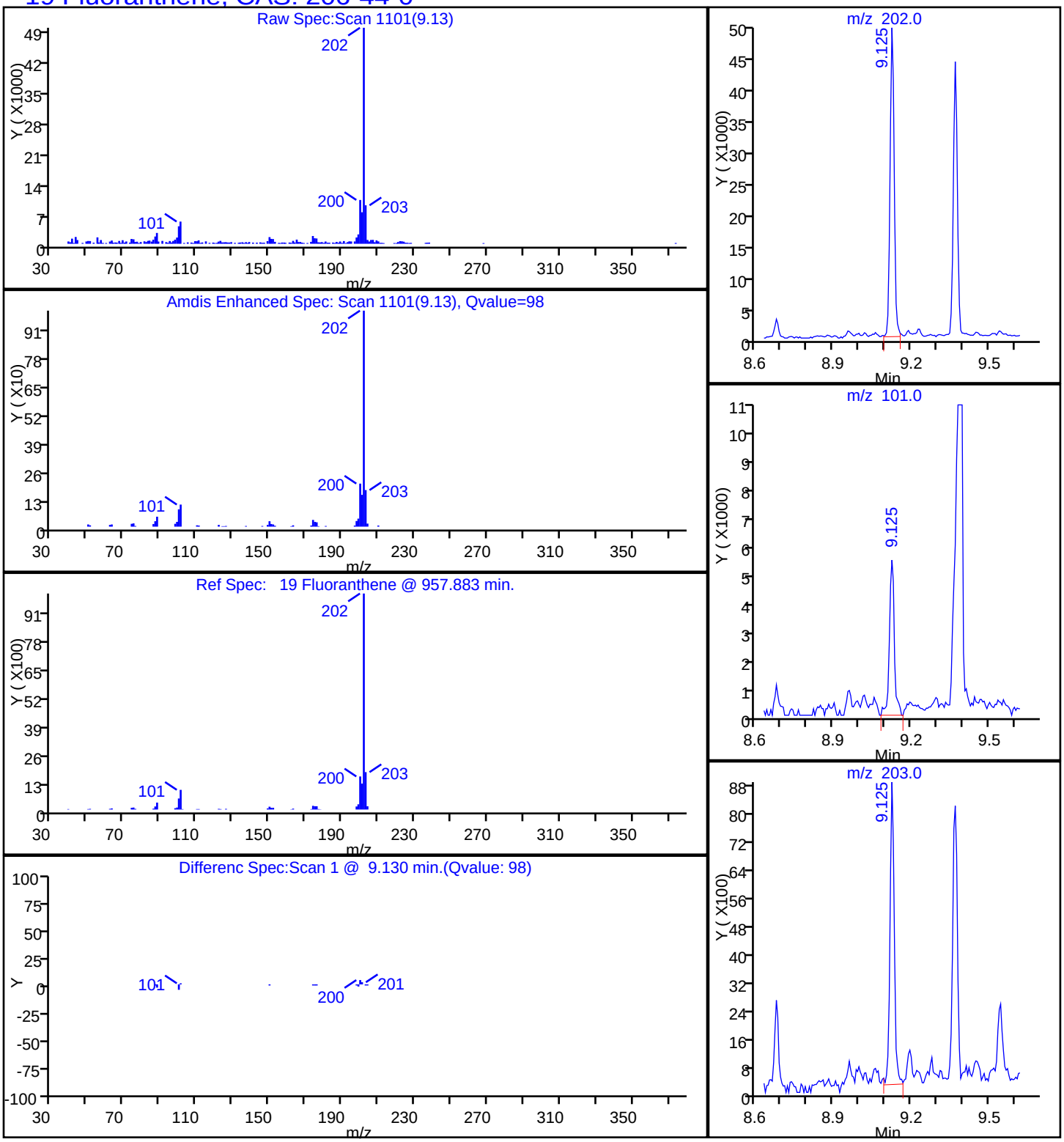


Report Date: 19-Nov-2014 08:49:51 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1731.D				
Injection Date:	18-Nov-2014 22:11:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-15-A	Lab Sample ID:	680-107159-15		
Client ID:	FM0281G-CS18"				
Operator ID:		ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 Fluoranthene, CAS: 206-44-0

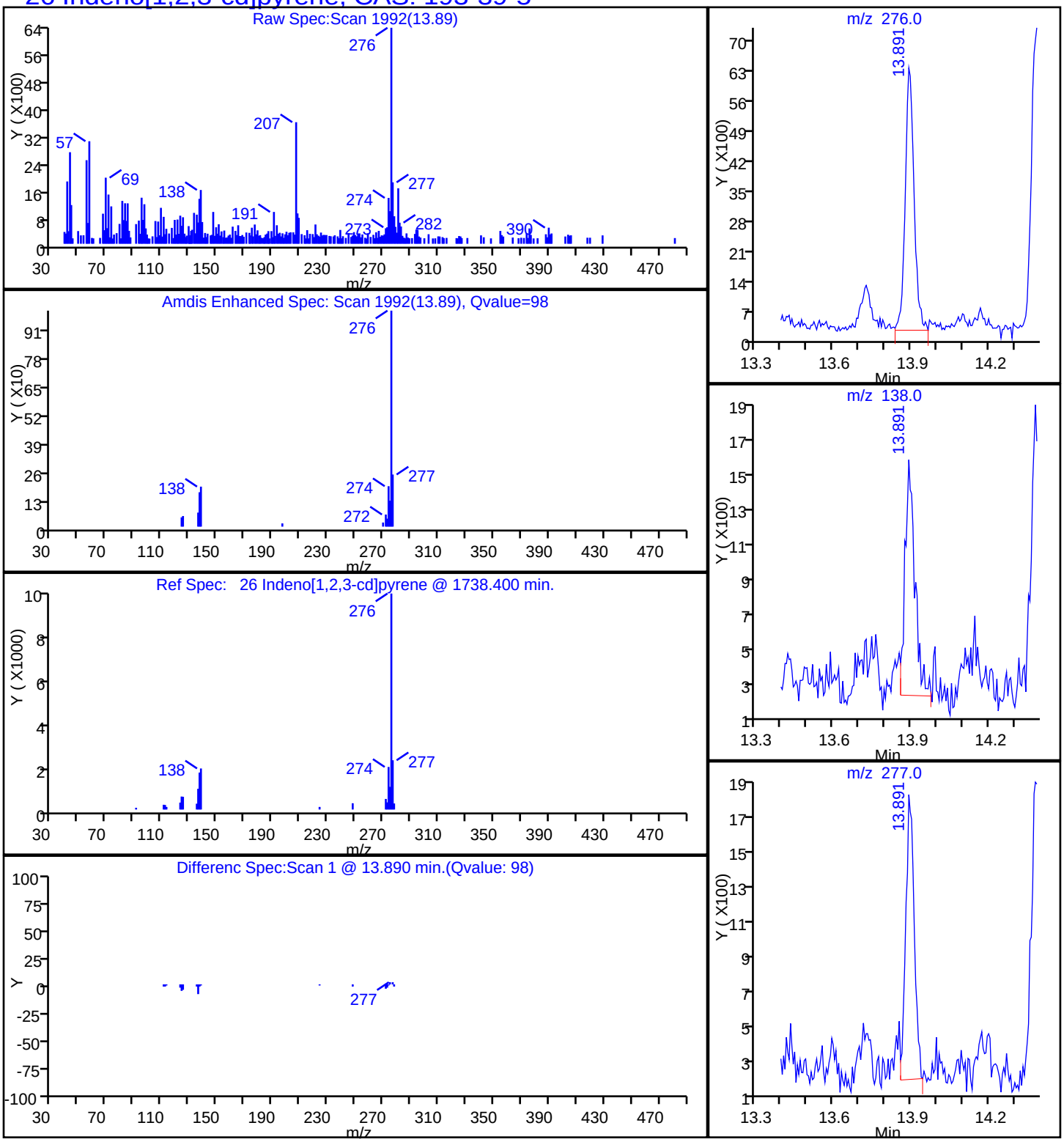


Report Date: 19-Nov-2014 08:49:52 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1731.D				
Injection Date:	18-Nov-2014 22:11:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-15-A	Lab Sample ID:	680-107159-15		
Client ID:	FM0281G-CS18"				
Operator ID:		ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

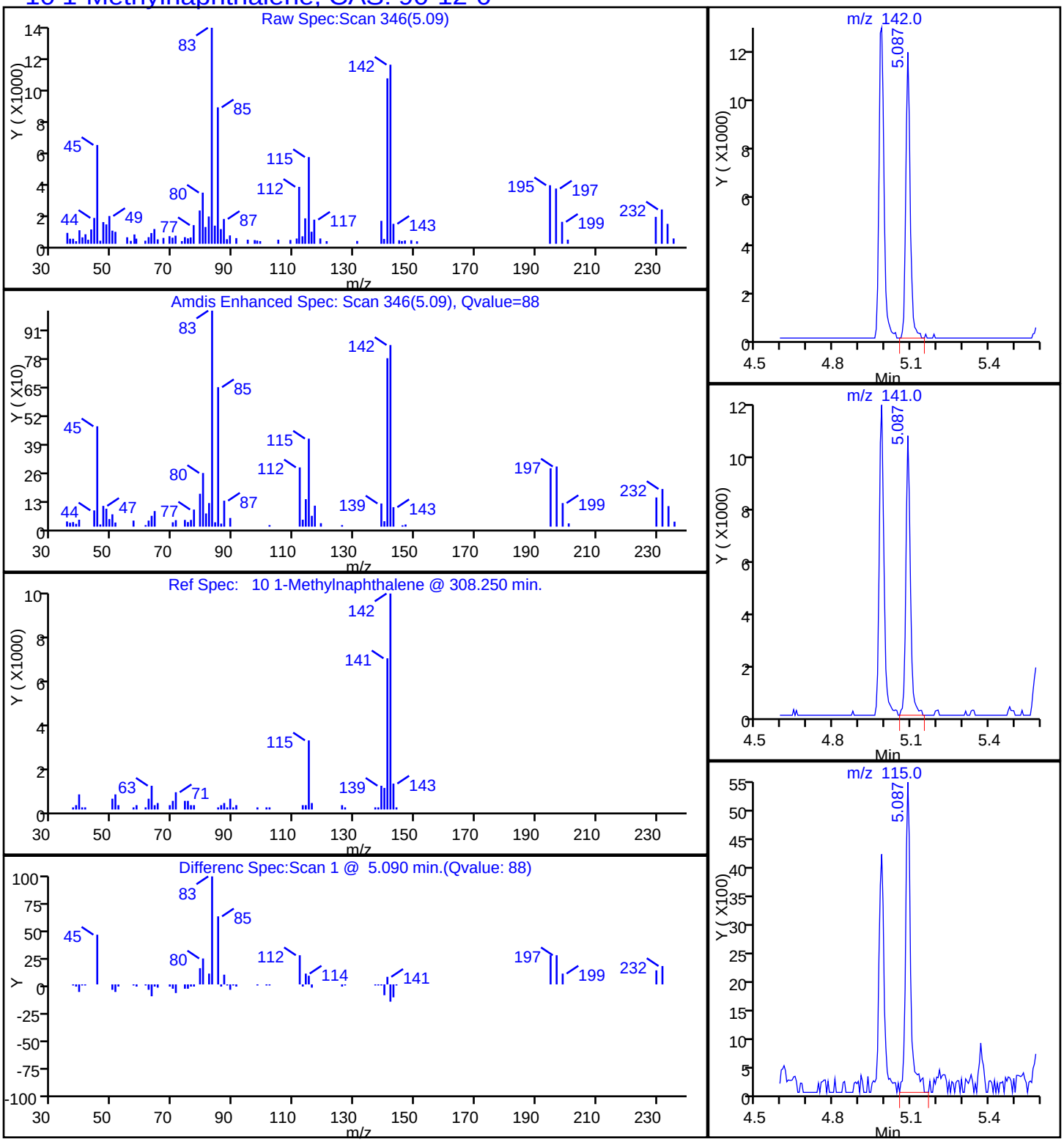


Report Date: 19-Nov-2014 08:49:51 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1731.D				
Injection Date:	18-Nov-2014 22:11:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-15-A	Lab Sample ID:	680-107159-15		
Client ID:	FM0281G-CS18"				
Operator ID:		ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

10 1-Methylnaphthalene, CAS: 90-12-0

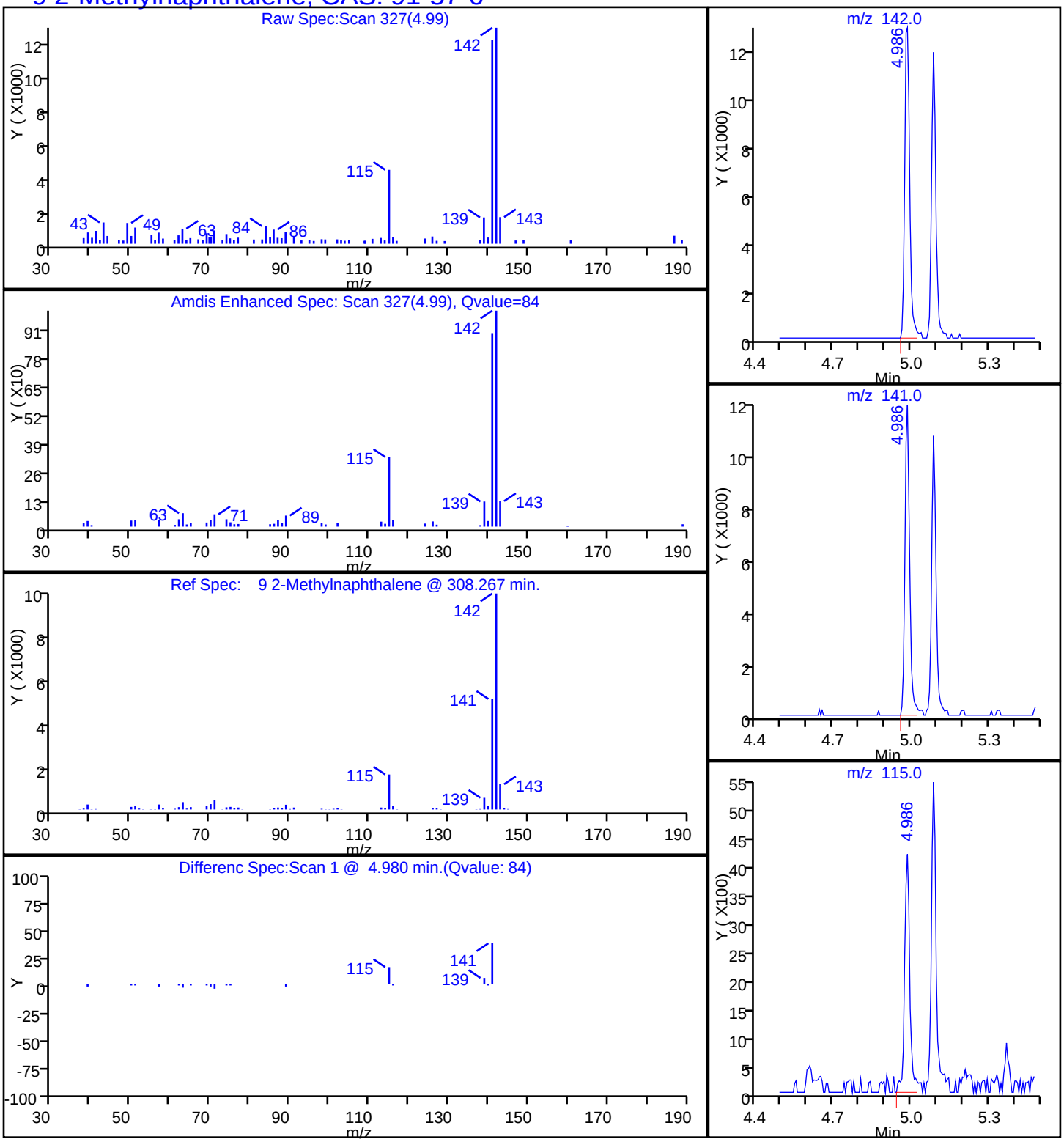


Report Date: 19-Nov-2014 08:49:51 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1731.D				
Injection Date:	18-Nov-2014 22:11:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-15-A	Lab Sample ID:	680-107159-15		
Client ID:	FM0281G-CS18"				
Operator ID:		ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

9 2-Methylnaphthalene, CAS: 91-57-6

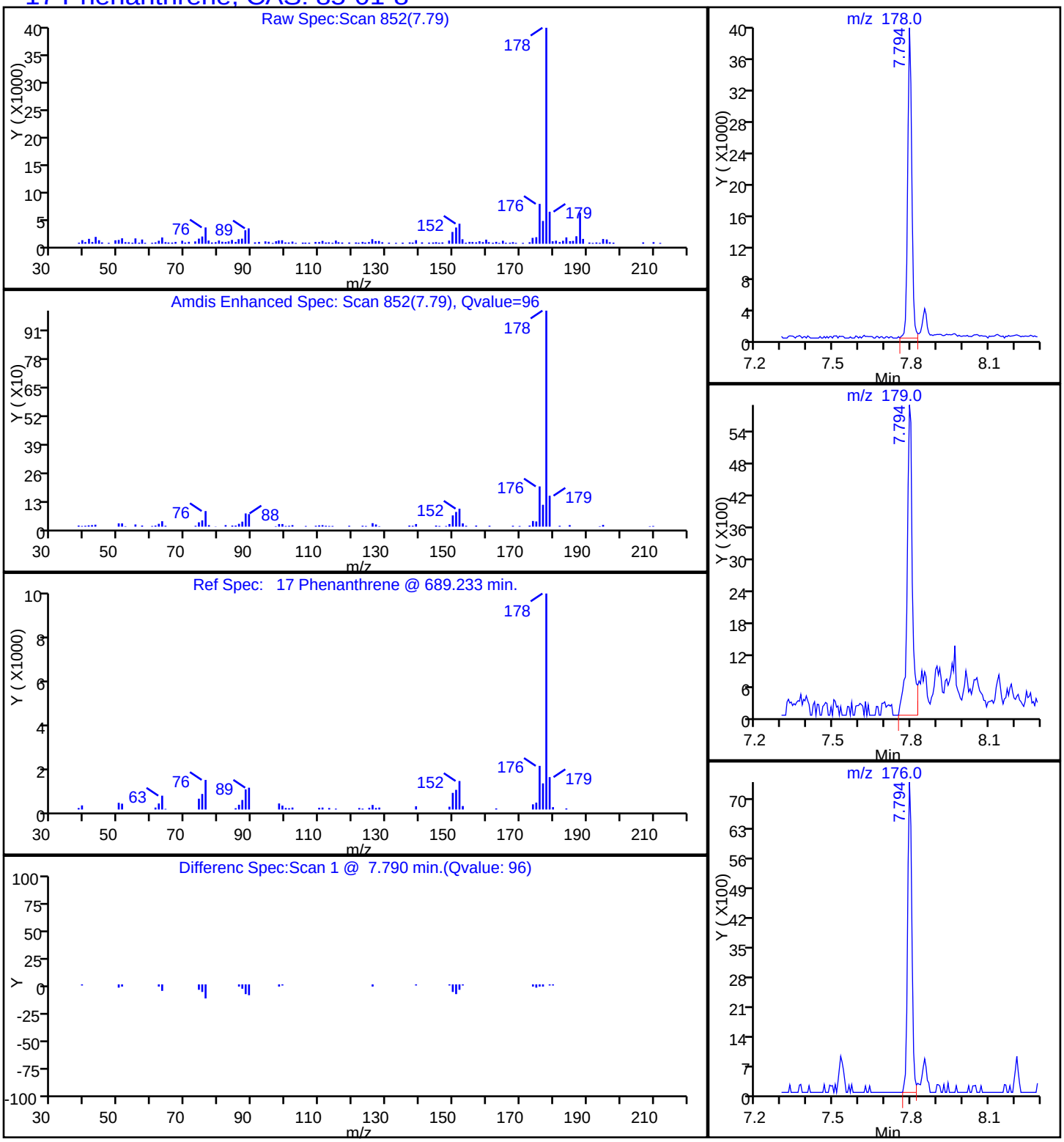


Report Date: 19-Nov-2014 08:49:51 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1731.D				
Injection Date:	18-Nov-2014 22:11:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-15-A	Lab Sample ID:	680-107159-15		
Client ID:	FM0281G-CS18"				
Operator ID:		ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Phenanthrene, CAS: 85-01-8

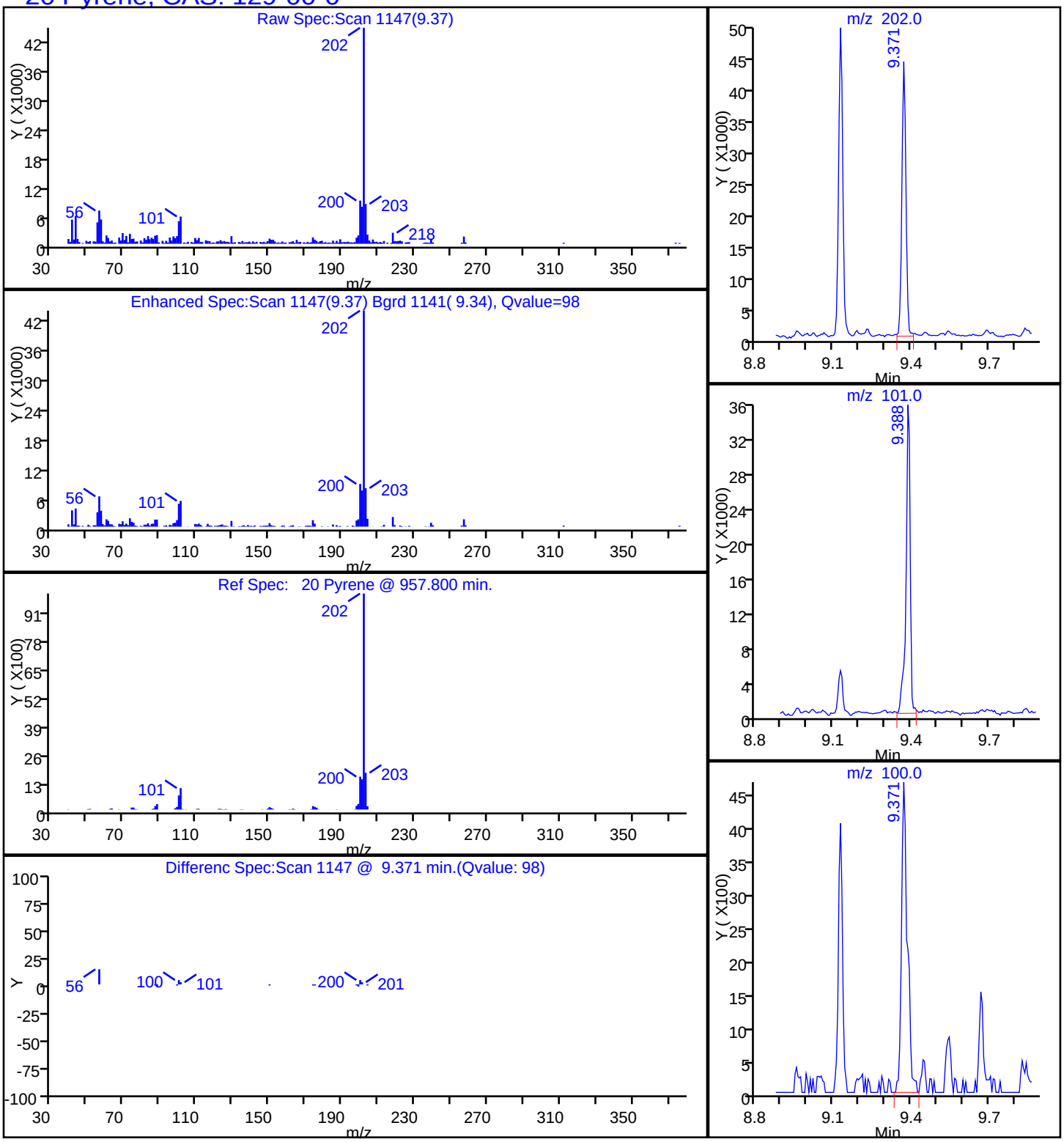


Report Date: 19-Nov-2014 08:49:51 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1731.D				
Injection Date:	18-Nov-2014 22:11:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-15-A	Lab Sample ID:	680-107159-15		
Client ID:	FM0281G-CS18"				
Operator ID:		ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

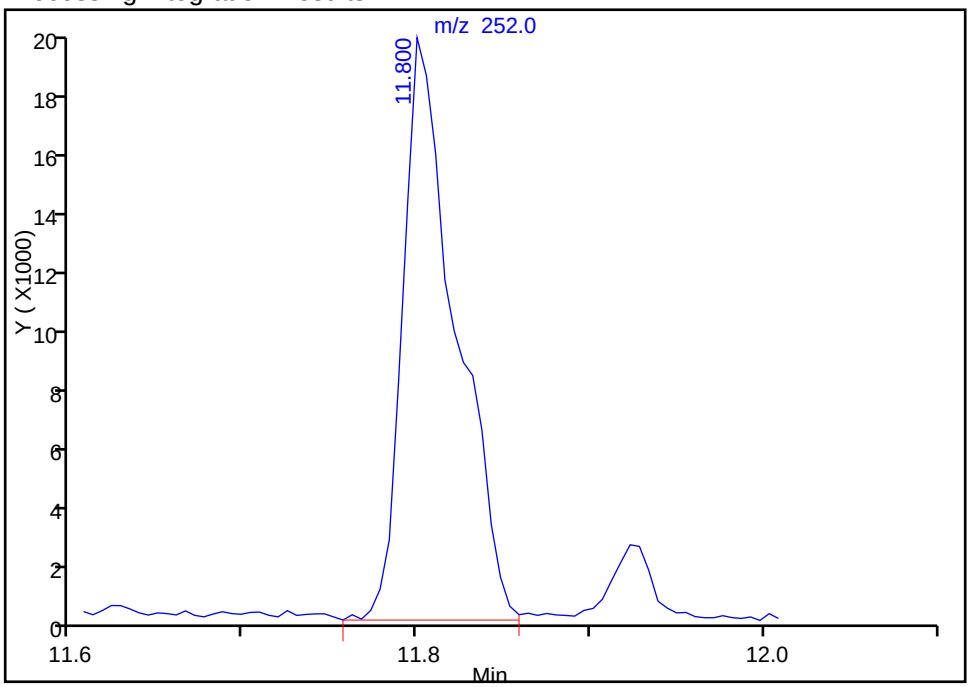
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1731.D				
Injection Date:	18-Nov-2014 22:11:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-15-A	Lab Sample ID:	680-107159-15		
Client ID:	FM0281G-CS18"				
Operator ID:		ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

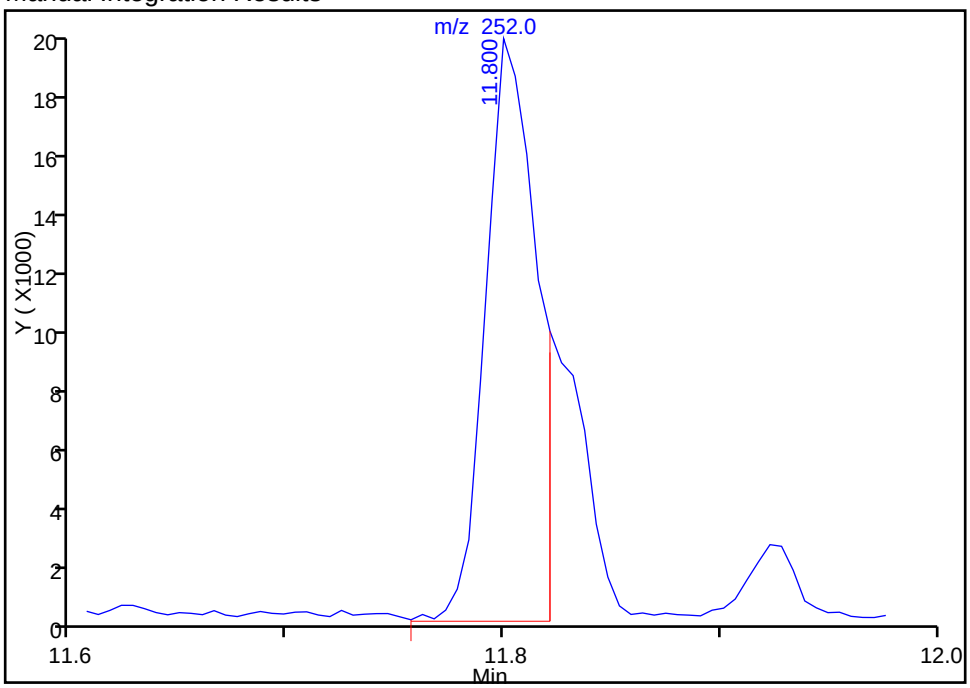
Processing Integration Results

RT: 11.80
Response: 39968
Amount: 0.278417



Manual Integration Results

RT: 11.80
Response: 31360
Amount: 0.218454



Reviewer: webbk, 19-Nov-2014 08:08:19
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

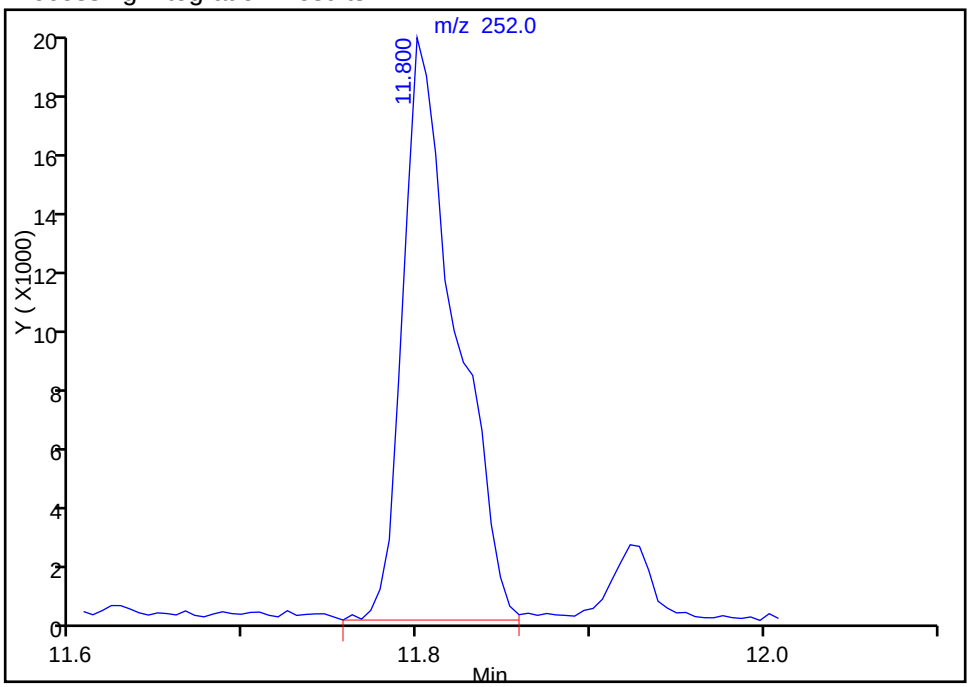
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1731.D				
Injection Date:	18-Nov-2014 22:11:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-15-A	Lab Sample ID:	680-107159-15		
Client ID:	FM0281G-CS18"				
Operator ID:		ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

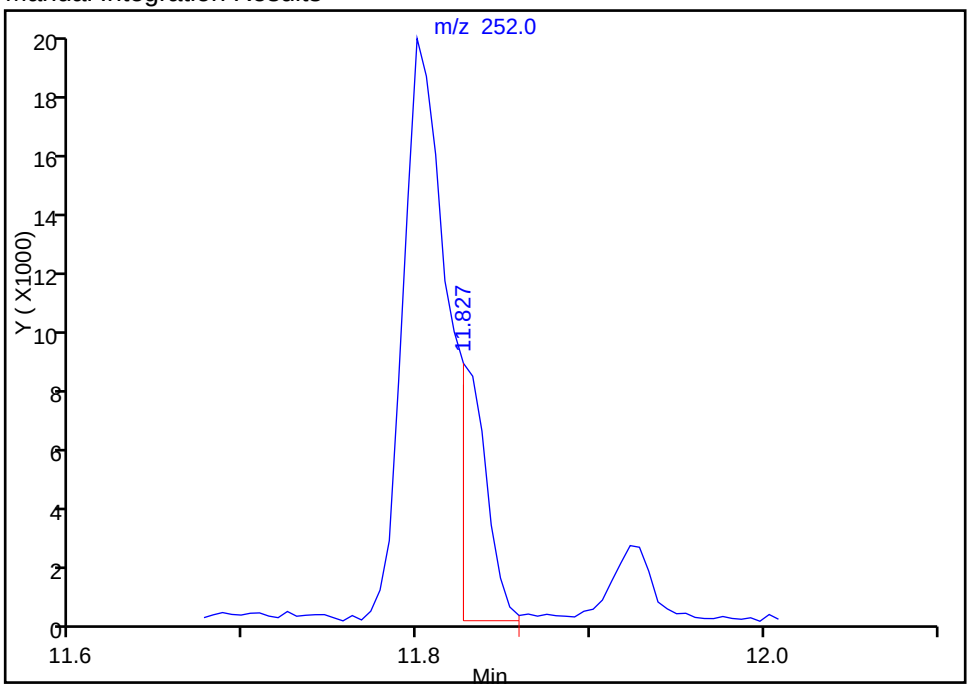
Processing Integration Results

RT: 11.80
Response: 39968
Amount: 0.259556



Manual Integration Results

RT: 11.83
Response: 8793
Amount: 0.056923



Reviewer: webbk, 19-Nov-2014 08:08:19
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281G-CS24" | Lab Sample ID: 680-107159-16

Matrix: Solid | Lab File ID: 1YK1732.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 11:55

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.13(g) | Date Analyzed: 11/18/2014 22:34

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 9.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	7.3	U	7.3	3.6
208-96-8	Acenaphthylene	7.3	U	7.3	3.6
120-12-7	Anthracene	7.3	U	7.3	3.6
56-55-3	Benzo[a]anthracene	12		7.3	3.6
50-32-8	Benzo[a]pyrene	12		7.3	1.3
205-99-2	Benzo[b]fluoranthene	21		7.3	3.6
191-24-2	Benzo[g,h,i]perylene	9.2		7.3	3.6
207-08-9	Benzo[k]fluoranthene	6.2	J	7.3	2.2
218-01-9	Chrysene	21		7.3	3.6
53-70-3	Dibenz(a,h)anthracene	7.3	U	7.3	3.6
206-44-0	Fluoranthene	20		7.3	3.6
86-73-7	Fluorene	7.3	U	7.3	3.6
193-39-5	Indeno[1,2,3-cd]pyrene	6.0	J	7.3	3.6
90-12-0	1-Methylnaphthalene	11		7.3	3.4
91-57-6	2-Methylnaphthalene	11		7.3	3.6
91-20-3	Naphthalene	6.5	J	7.3	3.6
85-01-8	Phenanthrene	18		7.3	2.6
129-00-0	Pyrene	7.3	U	7.3	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	108		36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1732.D
Lims ID: 680-107159-B-16-A Lab Sample ID: 680-107159-16
Client ID: FM0281G-CS24"
Sample Type: Client
Inject. Date: 18-Nov-2014 22:34:30 ALS Bottle#: 32 Worklist Smp#: 32
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 107159-B-16-A
Misc. Info.: 680-0014871-032
Operator ID: Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 19-Nov-2014 08:10:37 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: webbk Date: 19-Nov-2014 08:09:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.253	4.264	-0.011	99	462048	2.00	
* 2 Acenaphthene-d10	164	6.104	6.109	-0.005	92	257615	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	443012	2.00	
* 4 Chrysene-d12	240	10.661	10.655	0.006	99	325380	2.00	
* 5 Perylene-d12	264	12.282	12.265	0.017	99	222716	2.00	
$ 6 o-Terphenyl	230	8.211	8.211	0.000	90	220230	2.15	
7 Naphthalene	128	4.275	4.285	-0.010	96	43521	0.1790	
9 2-Methylnaphthalene	142	4.981	4.986	-0.005	84	47436	0.3014	
10 1-Methylnaphthalene	142	5.082	5.087	-0.005	89	41706	0.2906	
17 Phenanthrene	178	7.794	7.794	0.000	97	128168	0.4969	
18 Anthracene	178	7.853	7.853	0.000	79	10636	0.0437	
19 Fluoranthene	202	9.126	9.126	0.000	98	140884	0.5552	
21 Benzo[a]anthracene	228	10.650	10.645	0.005	75	59432	0.3275	
22 Chrysene	228	10.688	10.682	0.006	91	91702	0.5689	
23 Benzo[b]fluoranthene	252	11.805	11.795	0.010	96	77332	0.5632	M
24 Benzo[k]fluoranthene	252	11.827	11.827	0.000	98	24943	0.1691	M
25 Benzo[a]pyrene	252	12.207	12.196	0.011	96	35797	0.3283	
26 Indeno[1,2,3-cd]pyrene	276	13.902	13.870	0.032	93	23288	0.1653	
27 Dibenz(a,h)anthracene	278	13.924	13.897	0.027	73	8660	0.0939	
28 Benzo[g,h,i]perylene	276	14.394	14.357	0.037	88	25983	0.2513	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

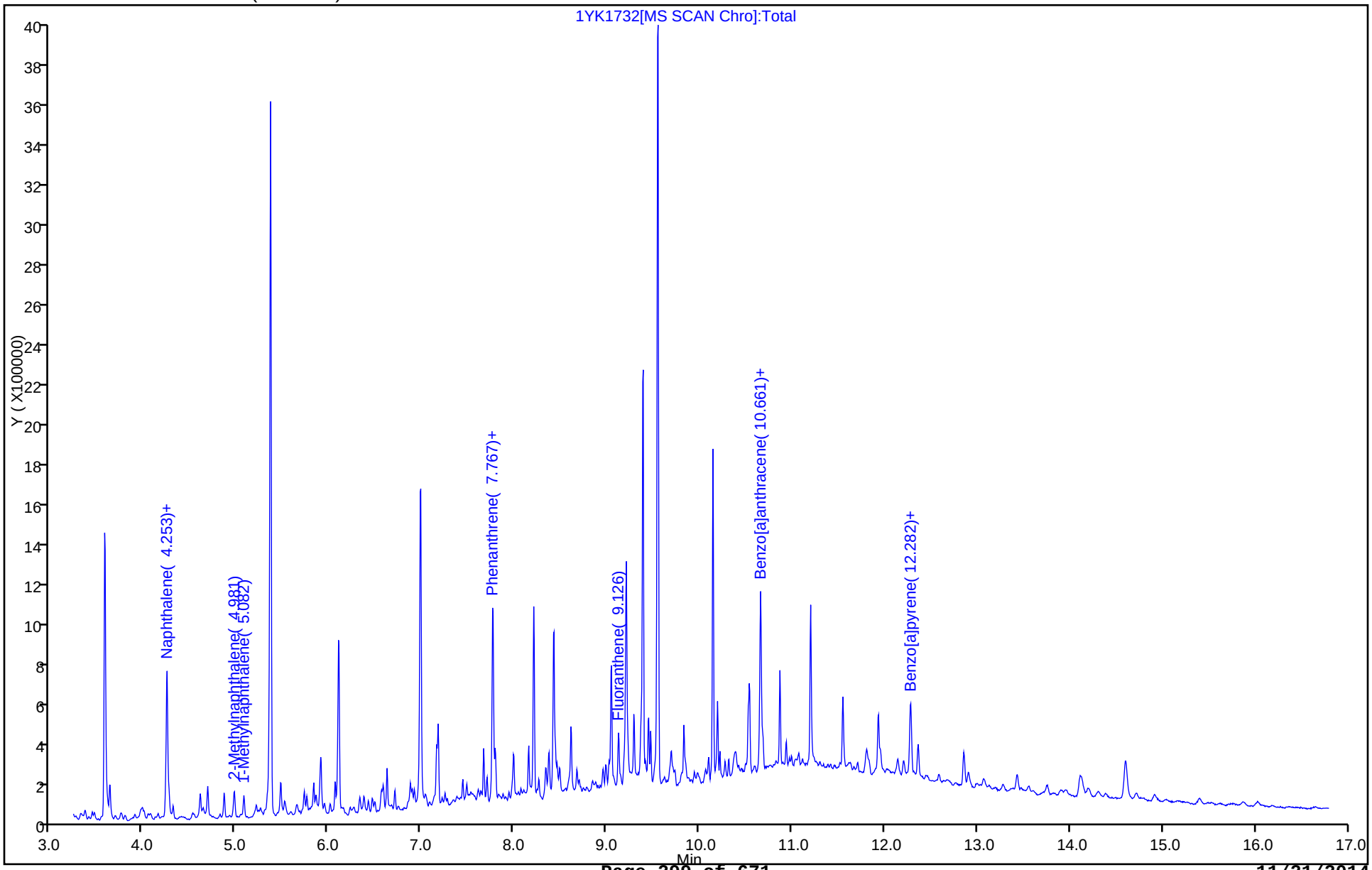
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Nov-2014 08:49:53 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1732.D				
Injection Date:	18-Nov-2014 22:34:30	Instrument ID:	CMSY	Operator ID:	
Lims ID:	680-107159-B-16-A	Lab Sample ID:	680-107159-16	Worklist Smp#:	32
Client ID:	FM0281G-CS24"				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)



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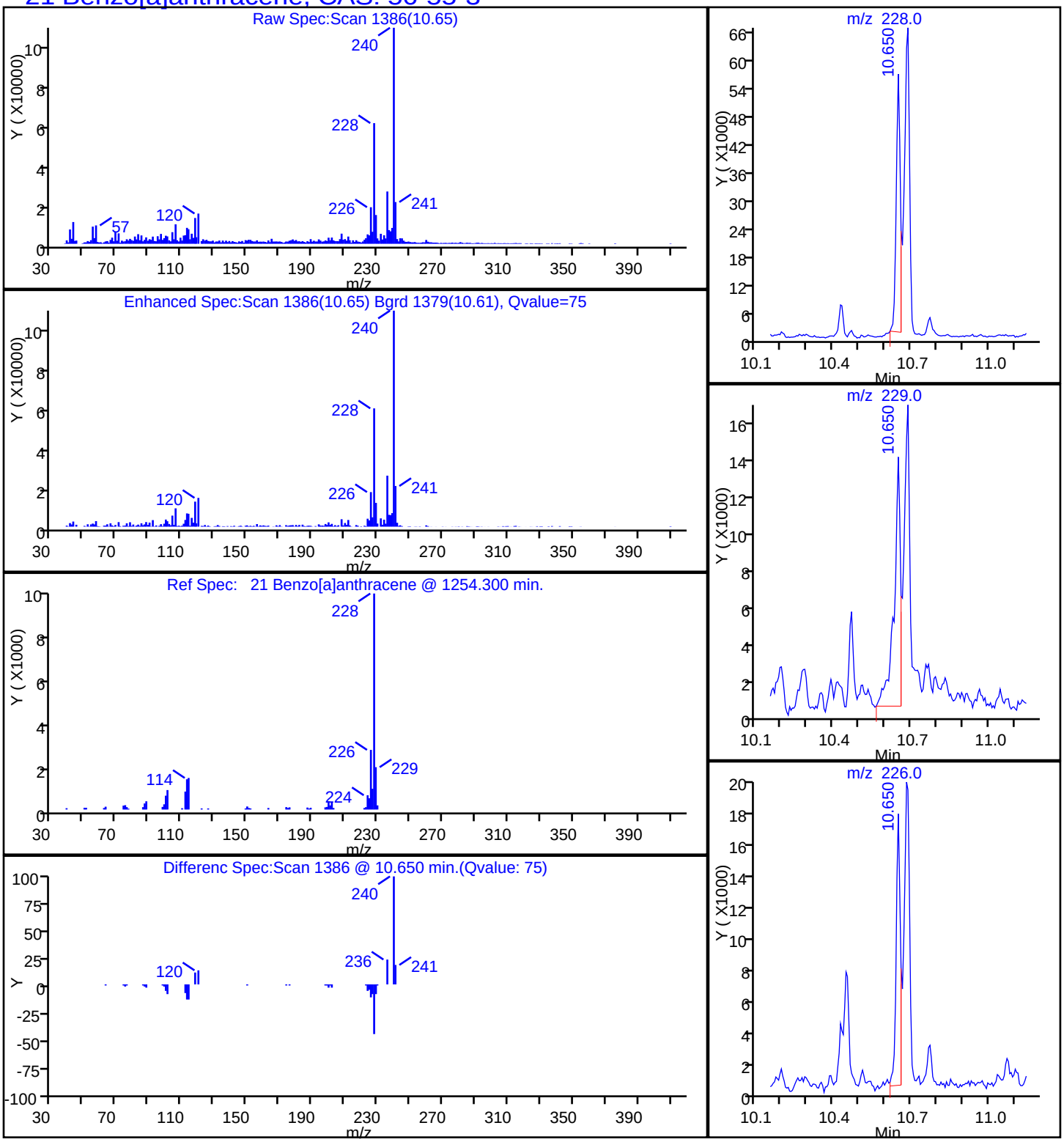
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1732.D				
Injection Date:	18-Nov-2014 22:34:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-16-A	Lab Sample ID:	680-107159-16		
Client ID:	FM0281G-CS24"				
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

21 Benzo[a]anthracene, CAS: 56-55-3



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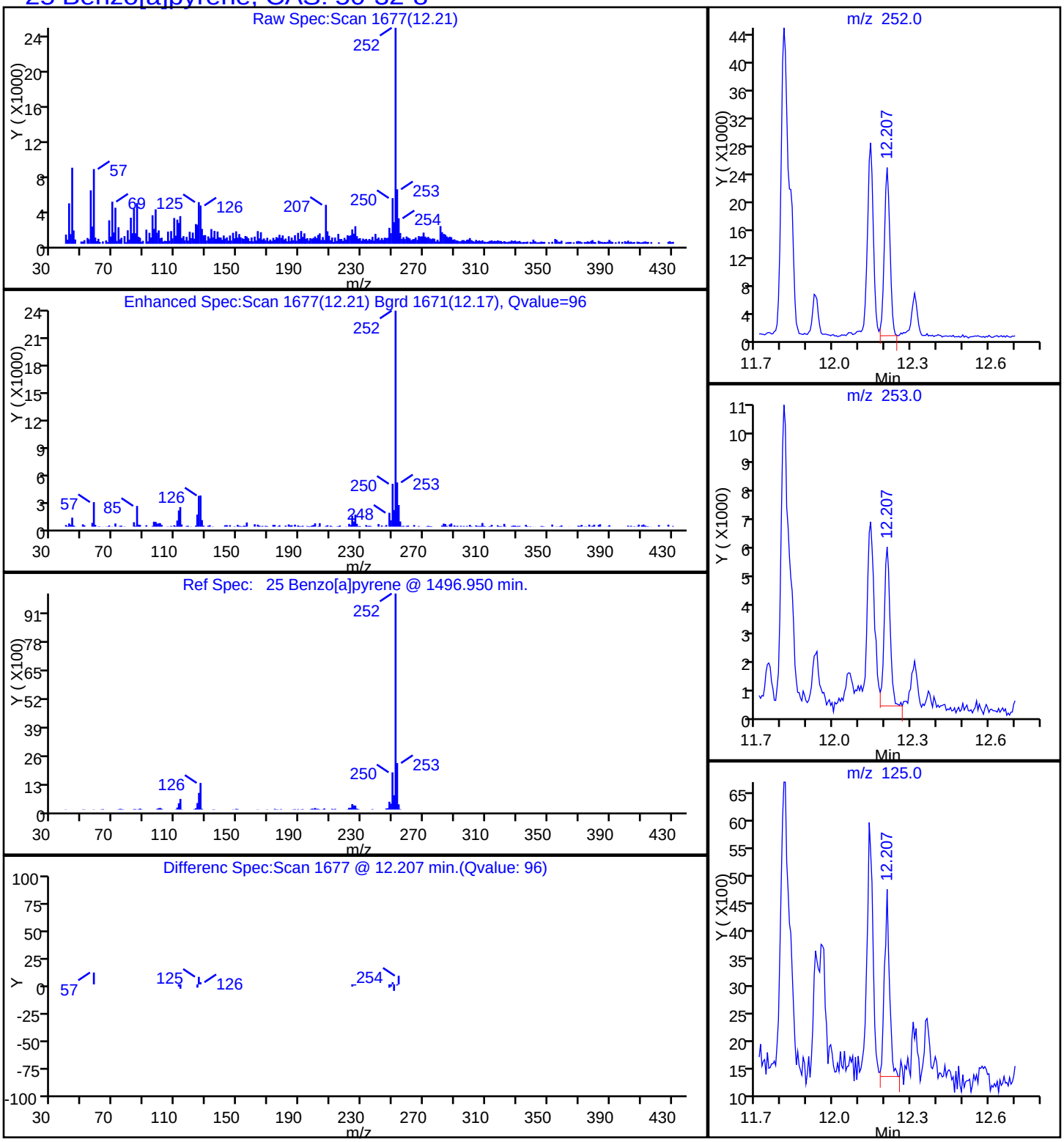
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1732.D				
Injection Date:	18-Nov-2014 22:34:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-16-A	Lab Sample ID:	680-107159-16		
Client ID:	FM0281G-CS24"				
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

25 Benzo[a]pyrene, CAS: 50-32-8



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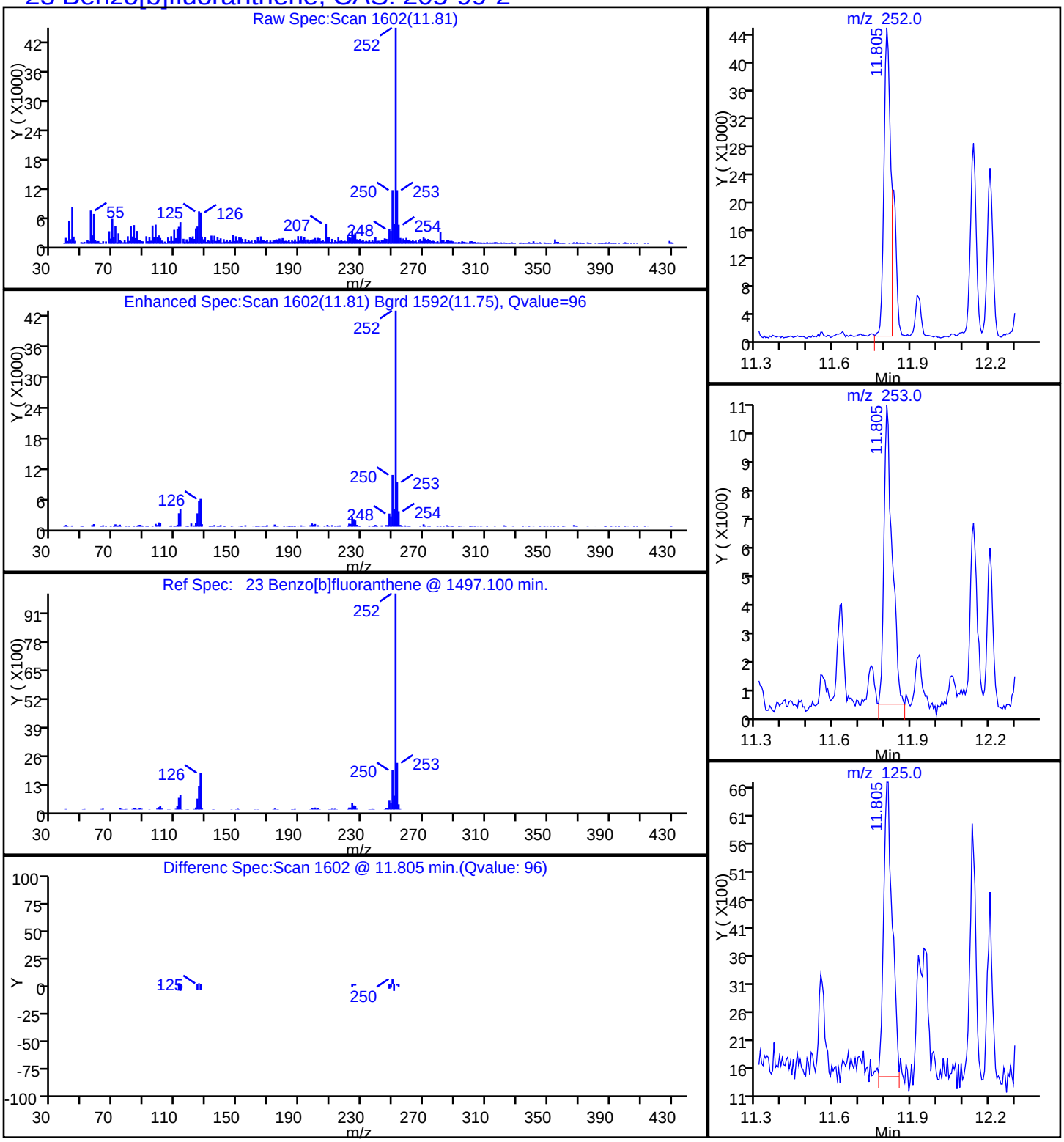
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1732.D				
Injection Date:	18-Nov-2014 22:34:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-16-A	Lab Sample ID:	680-107159-16		
Client ID:	FM0281G-CS24"				
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2



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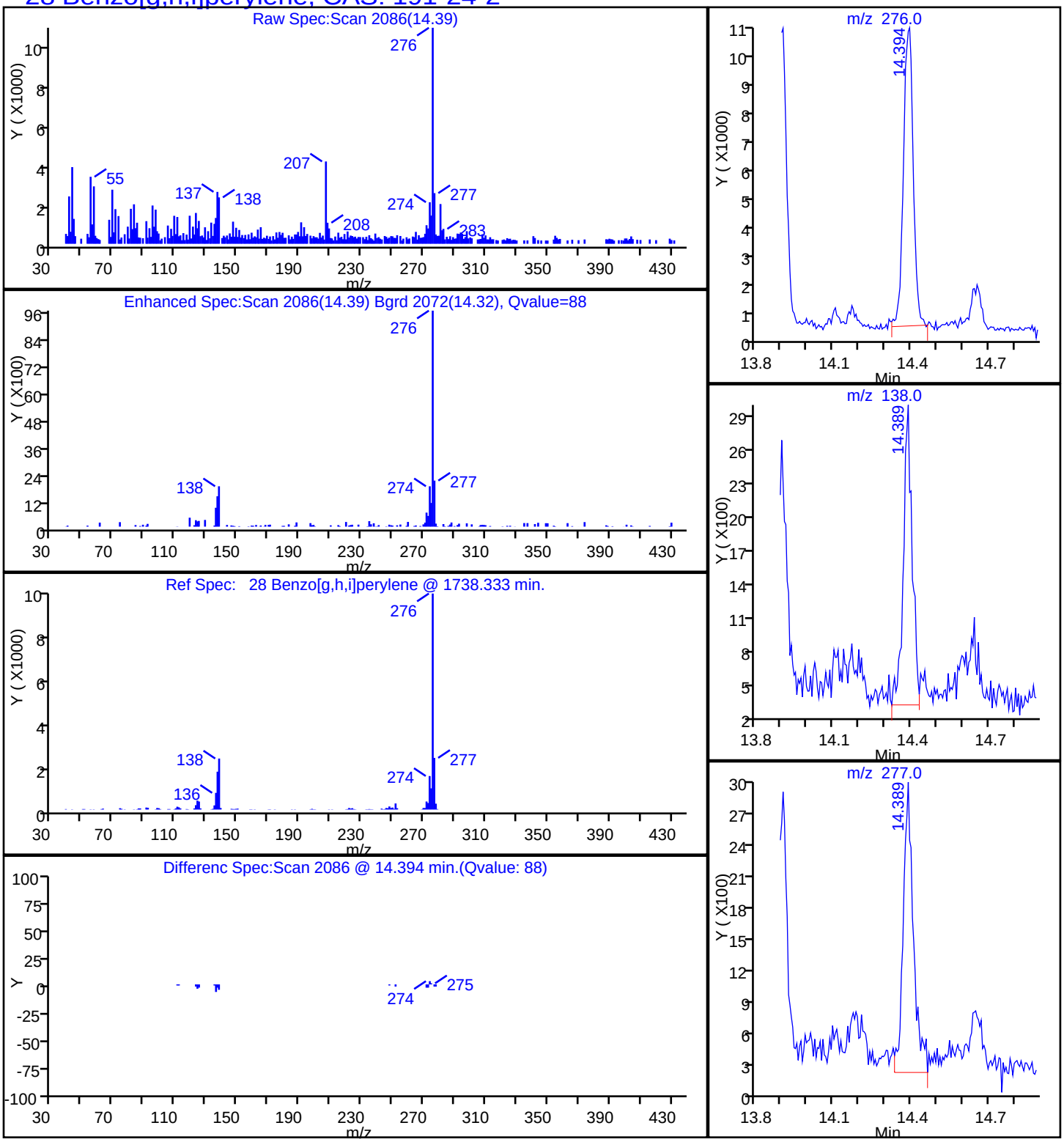
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1732.D				
Injection Date:	18-Nov-2014 22:34:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-16-A	Lab Sample ID:	680-107159-16		
Client ID:	FM0281G-CS24"				
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

28 Benzo[g,h,i]perylene, CAS: 191-24-2

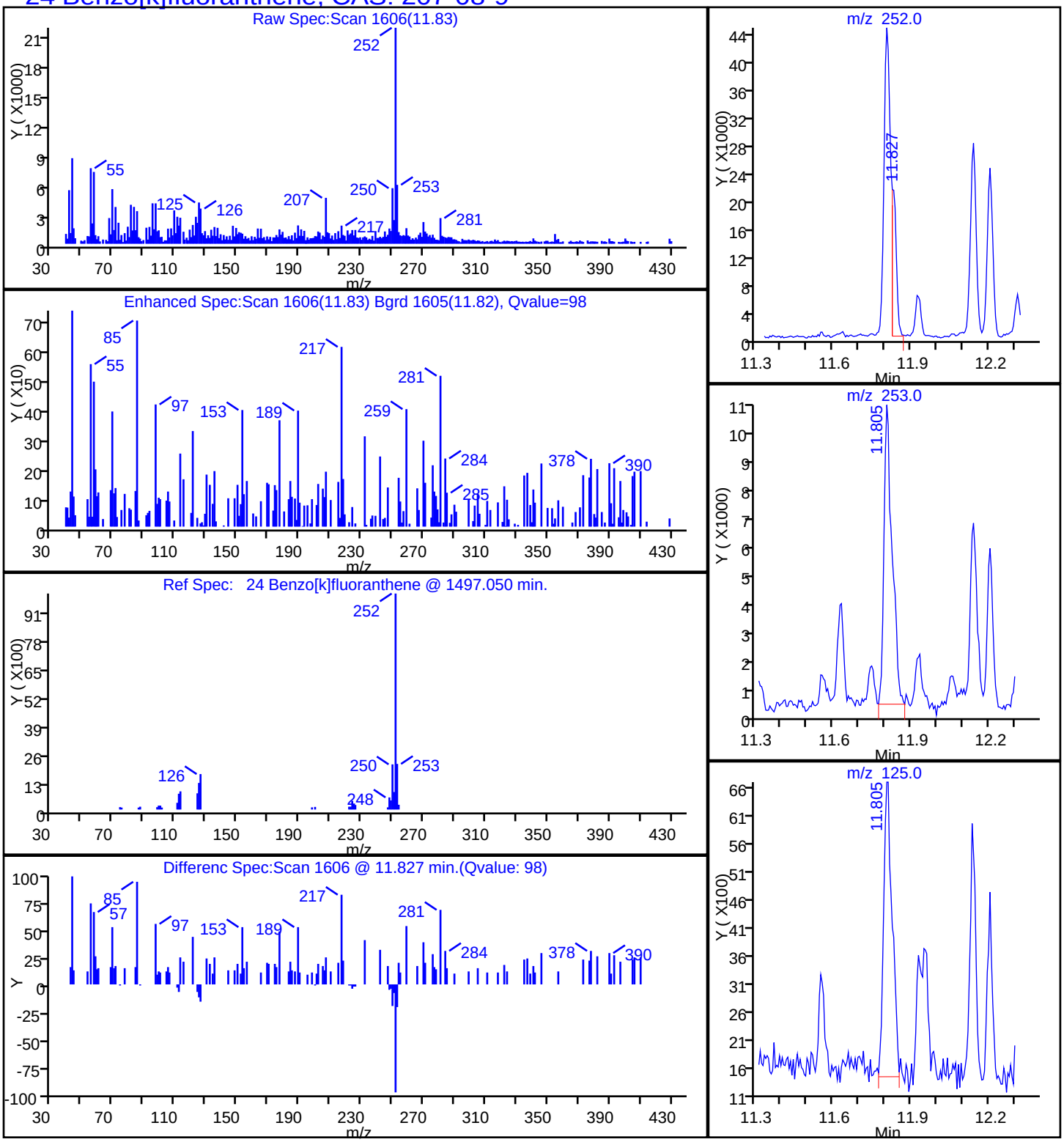


Report Date: 19-Nov-2014 08:49:53 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1732.D				
Injection Date:	18-Nov-2014 22:34:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-16-A	Lab Sample ID:	680-107159-16		
Client ID:	FM0281G-CS24"				
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

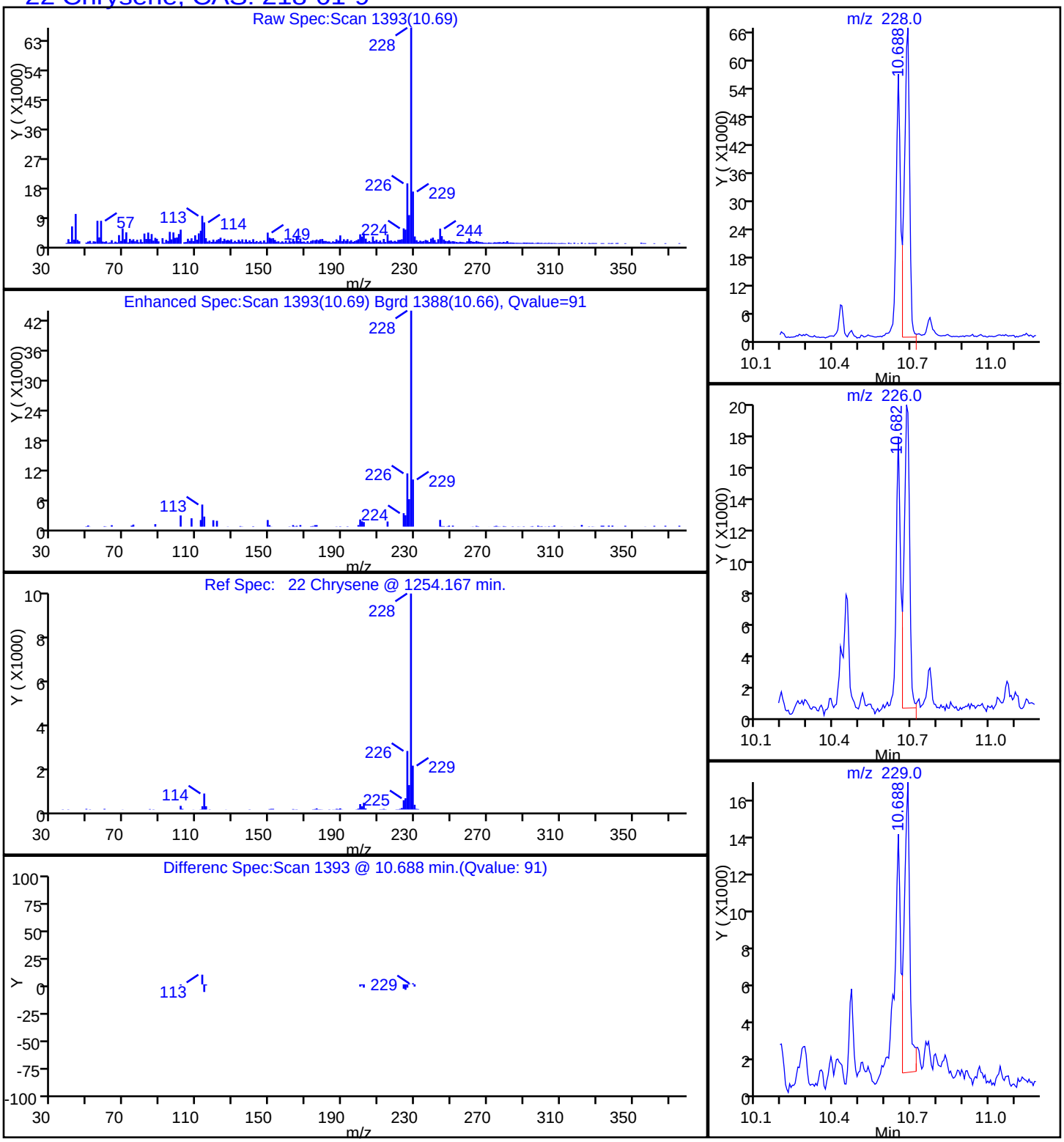


Report Date: 19-Nov-2014 08:49:53 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1732.D				
Injection Date:	18-Nov-2014 22:34:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-16-A	Lab Sample ID:	680-107159-16		
Client ID:	FM0281G-CS24"				
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Chrysene, CAS: 218-01-9



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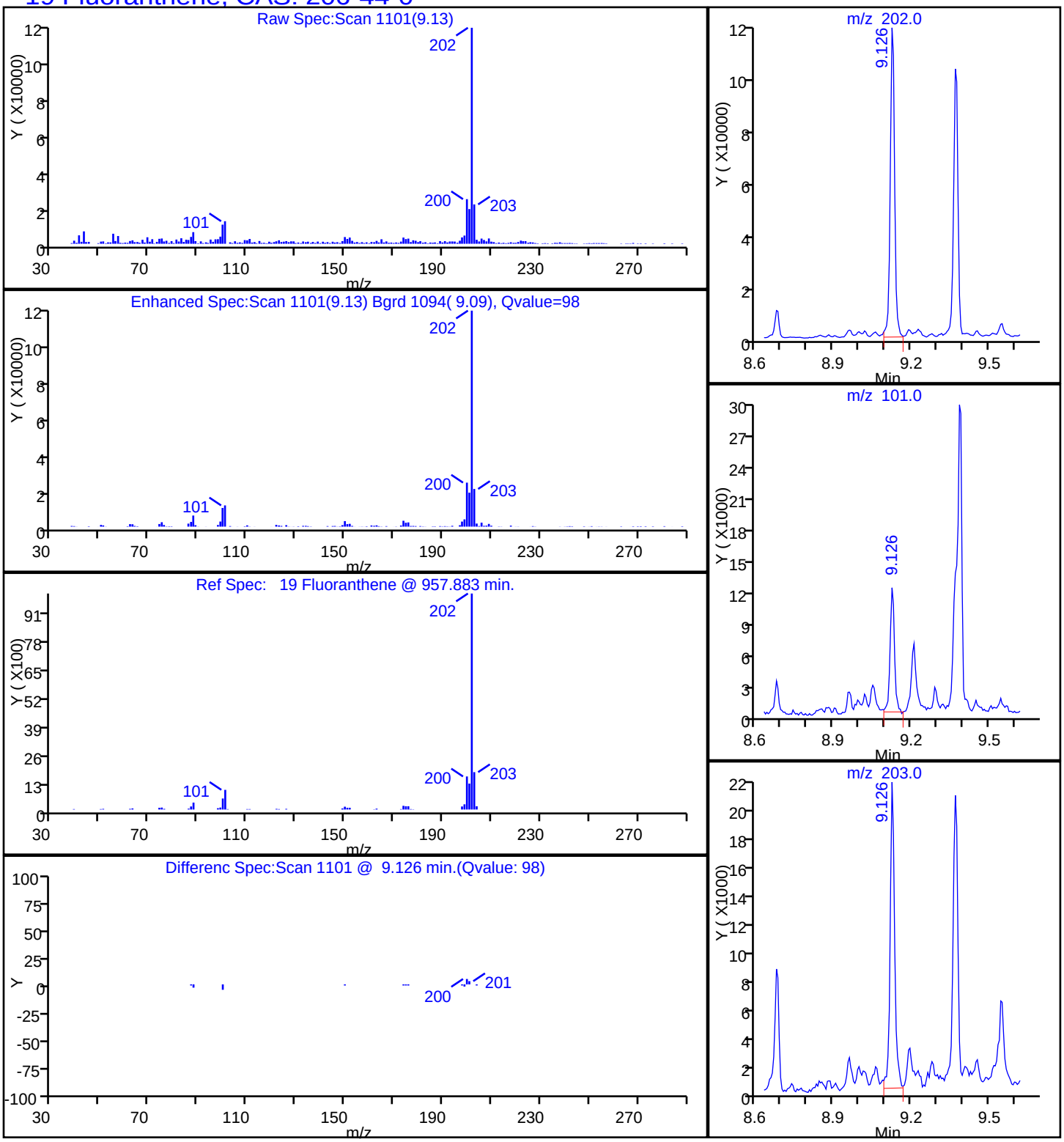
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1732.D				
Injection Date:	18-Nov-2014 22:34:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-16-A	Lab Sample ID:	680-107159-16		
Client ID:	FM0281G-CS24"				
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 Fluoranthene, CAS: 206-44-0

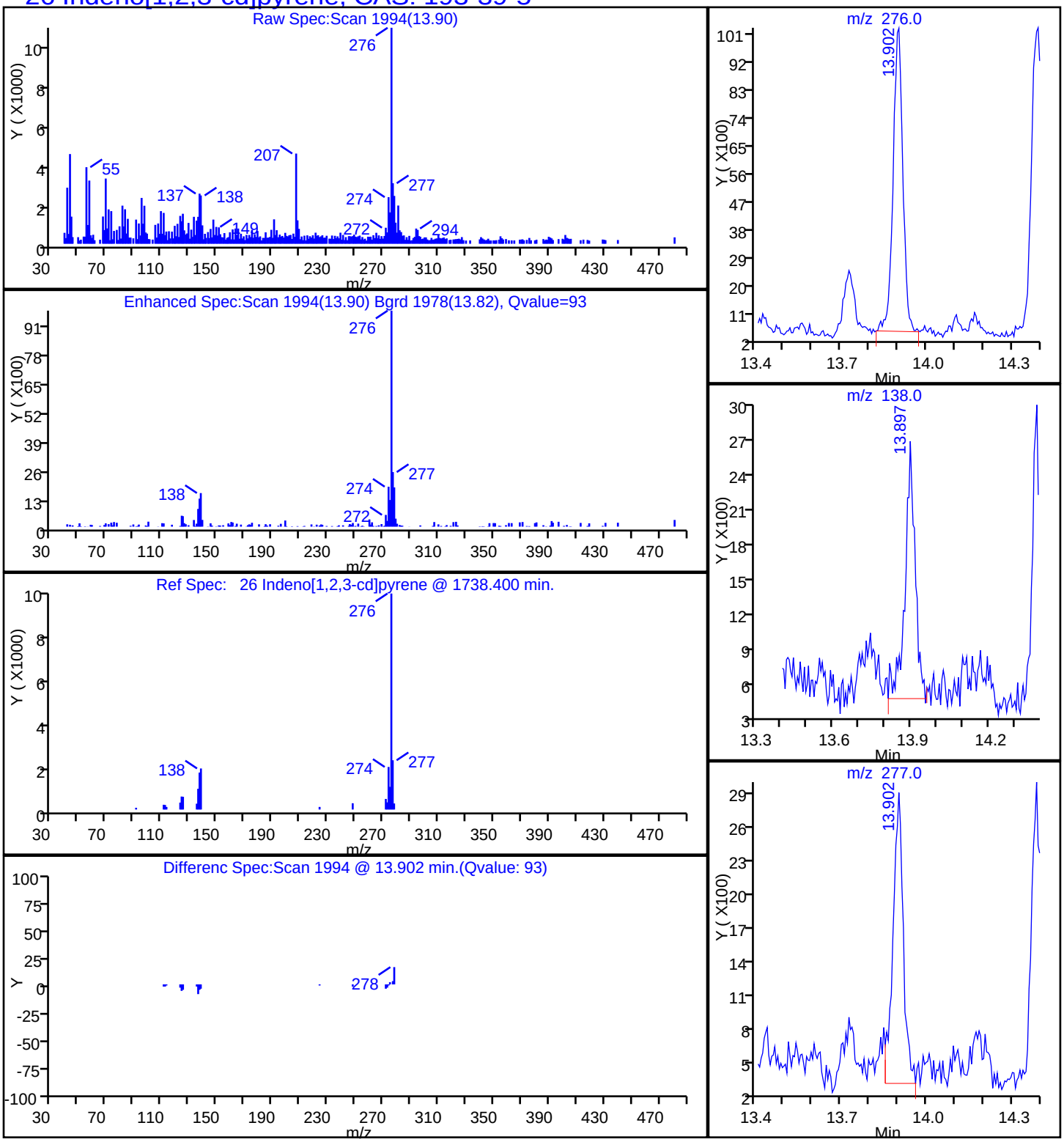


Report Date: 19-Nov-2014 08:49:53 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1732.D				
Injection Date:	18-Nov-2014 22:34:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-16-A	Lab Sample ID:	680-107159-16		
Client ID:	FM0281G-CS24"				
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

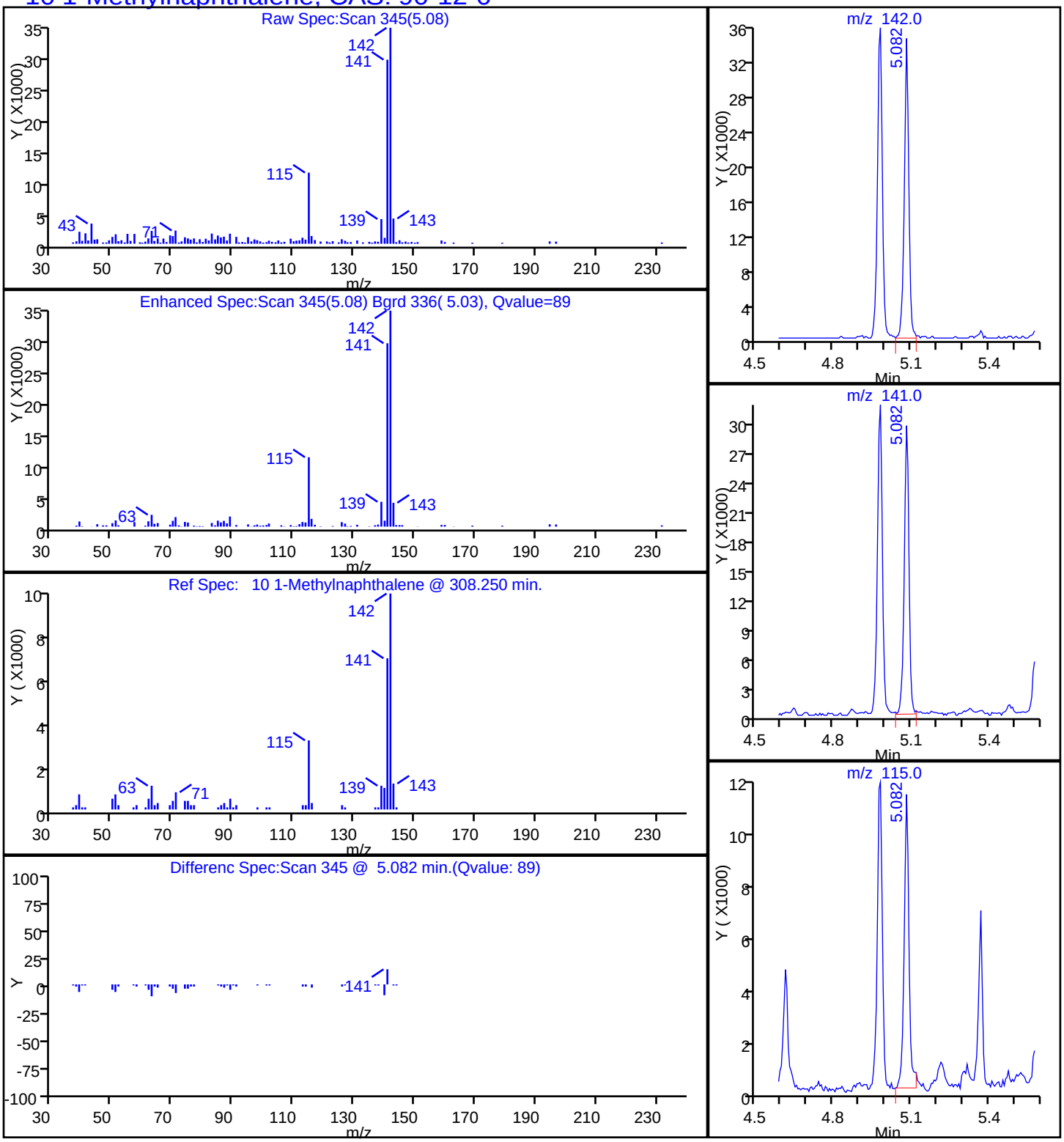


Report Date: 19-Nov-2014 08:49:53 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1732.D				
Injection Date:	18-Nov-2014 22:34:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-16-A	Lab Sample ID:	680-107159-16		
Client ID:	FM0281G-CS24"				
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

10 1-Methylnaphthalene, CAS: 90-12-0

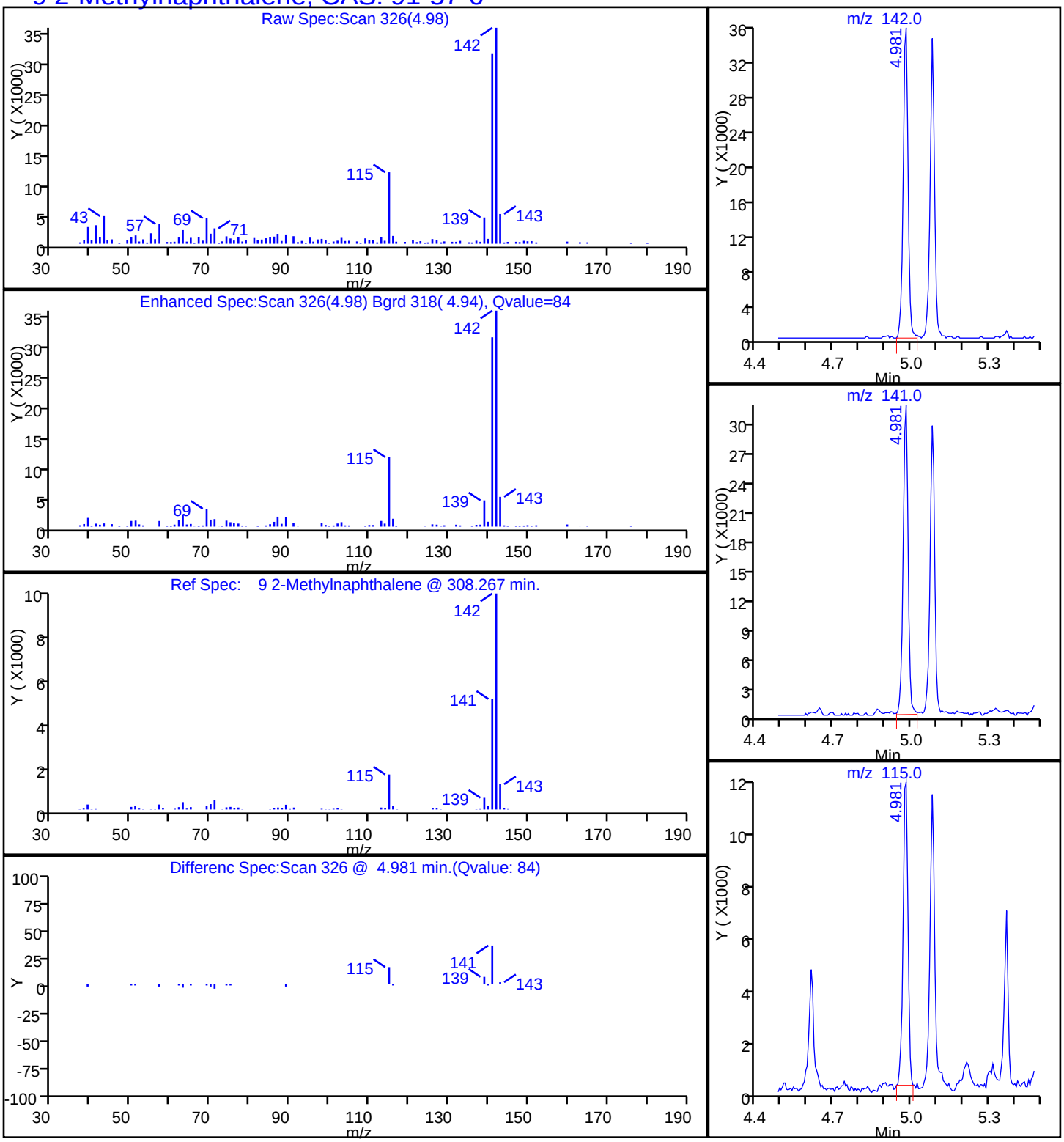


Report Date: 19-Nov-2014 08:49:53 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1732.D				
Injection Date:	18-Nov-2014 22:34:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-16-A	Lab Sample ID:	680-107159-16		
Client ID:	FM0281G-CS24"				
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

9 2-Methylnaphthalene, CAS: 91-57-6

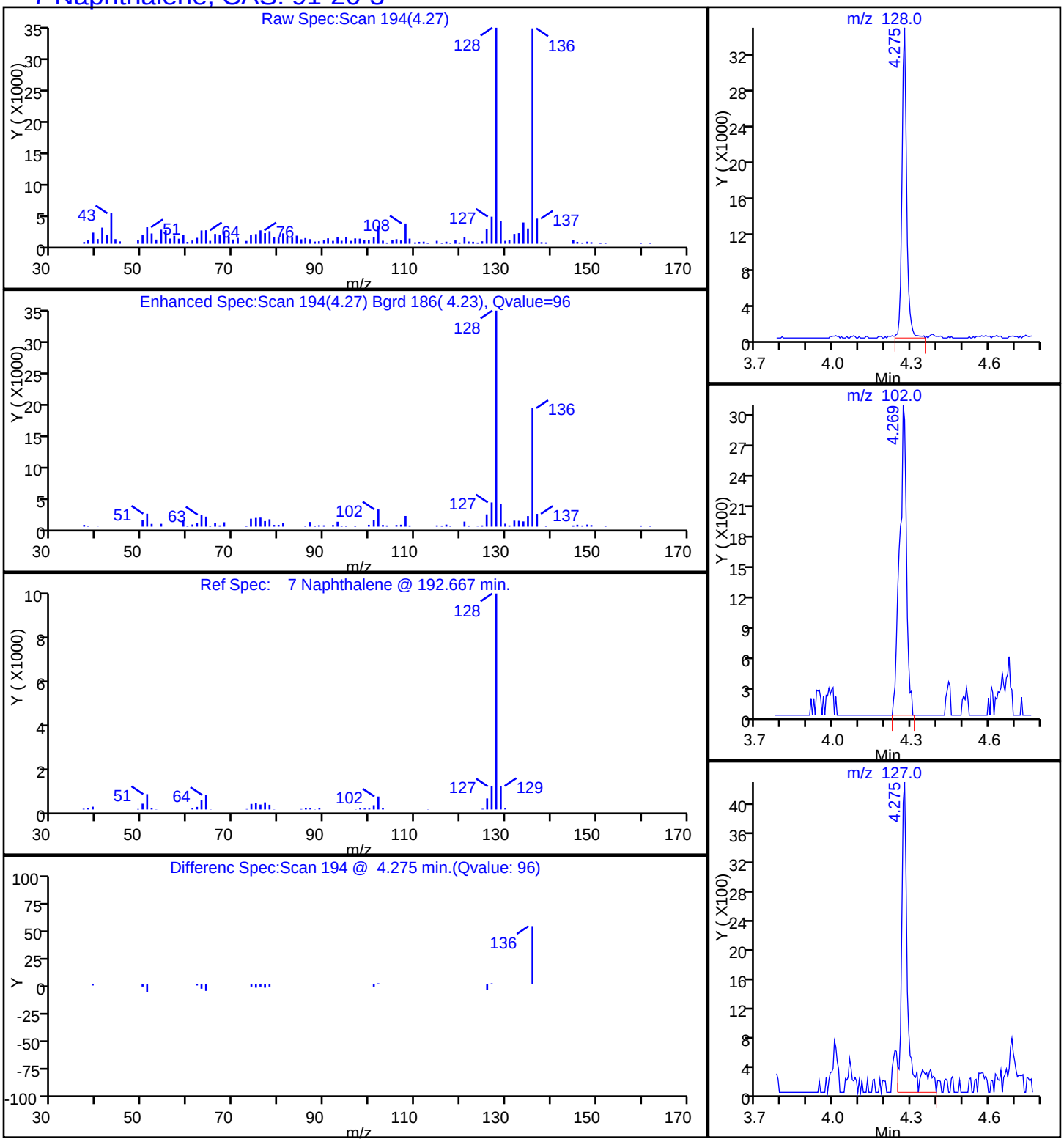


Report Date: 19-Nov-2014 08:49:53 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1732.D				
Injection Date:	18-Nov-2014 22:34:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-16-A	Lab Sample ID:	680-107159-16		
Client ID:	FM0281G-CS24"				
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Naphthalene, CAS: 91-20-3

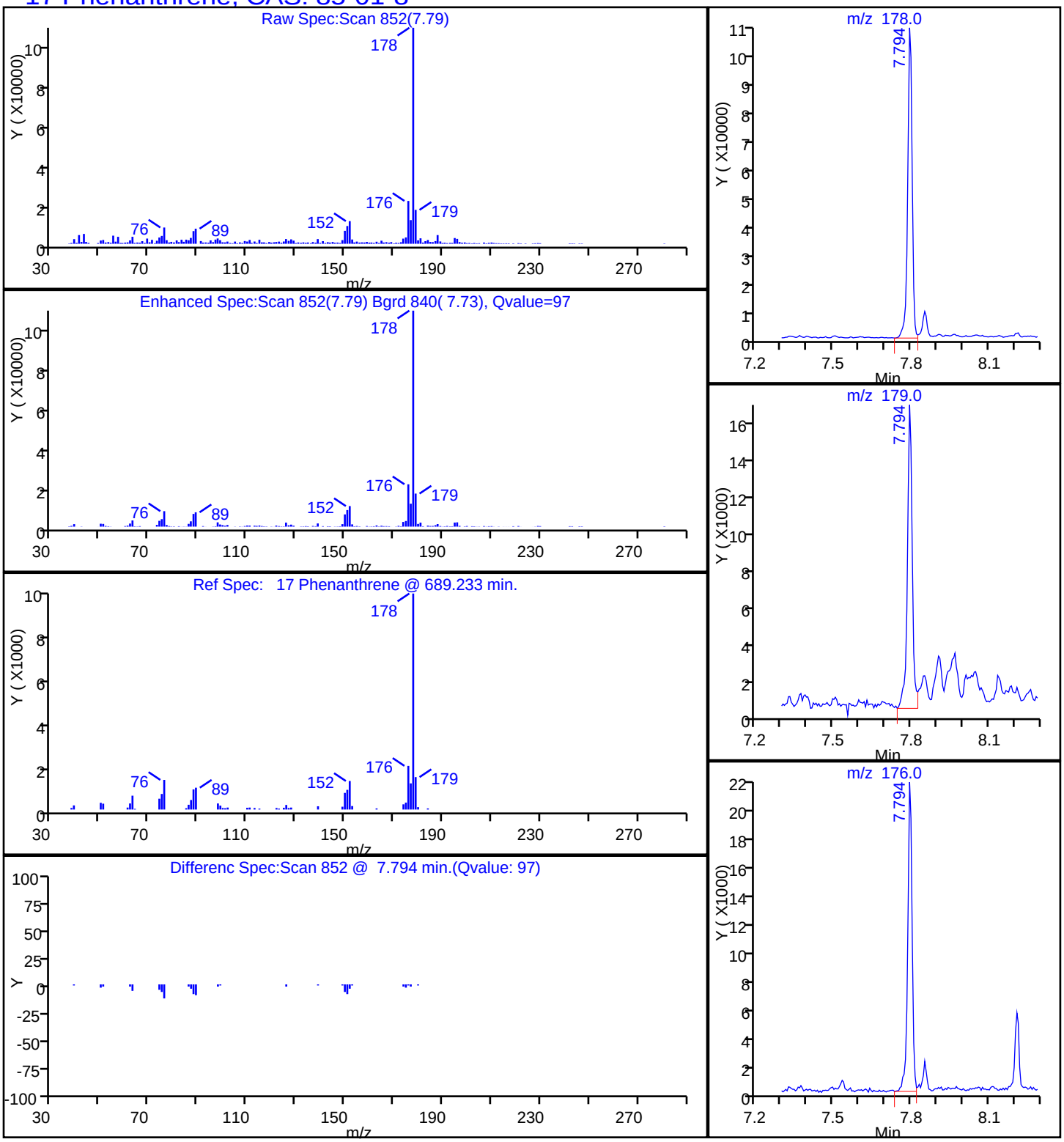


Report Date: 19-Nov-2014 08:49:53 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1732.D				
Injection Date:	18-Nov-2014 22:34:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-16-A	Lab Sample ID:	680-107159-16		
Client ID:	FM0281G-CS24"				
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Phenanthrene, CAS: 85-01-8



Manual Integration/User Assign Peak Report

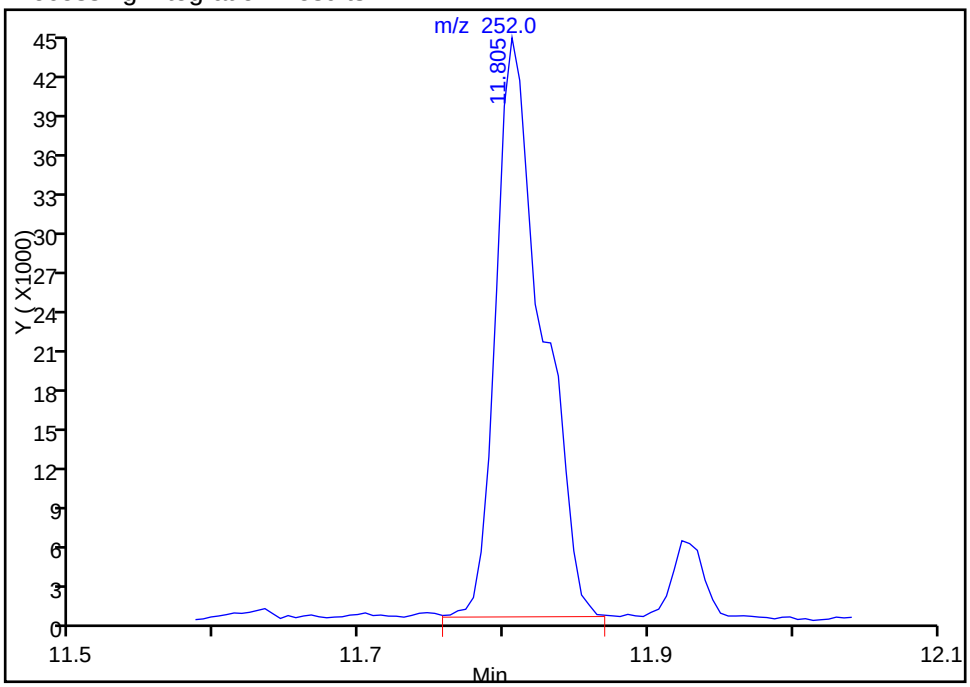
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1732.D				
Injection Date:	18-Nov-2014 22:34:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-16-A	Lab Sample ID:	680-107159-16		
Client ID:	FM0281G-CS24"				
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

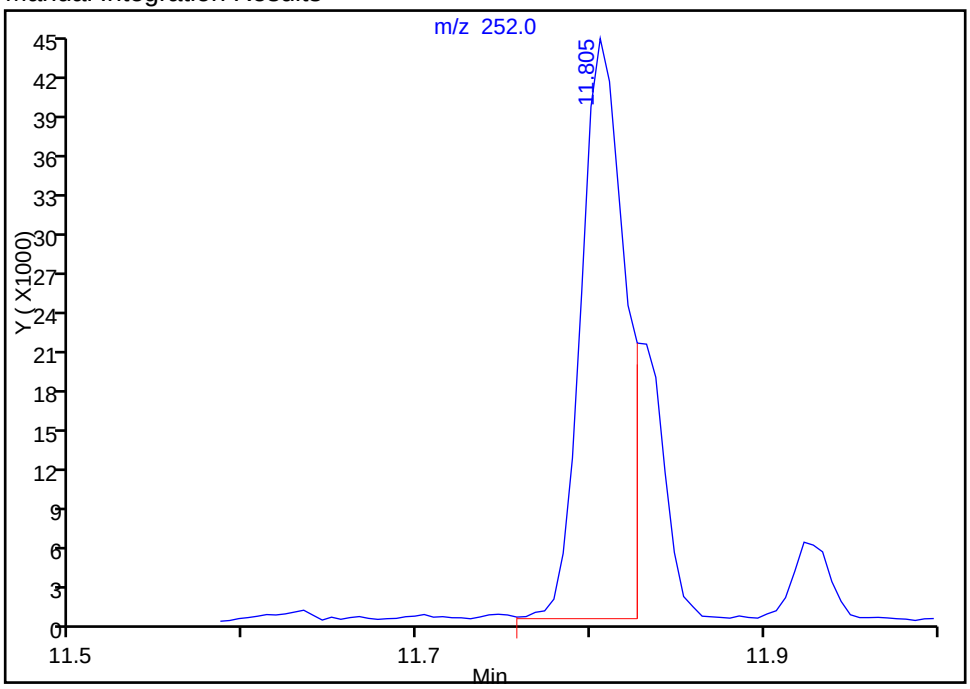
Processing Integration Results

RT: 11.81
Response: 95570
Amount: 0.696075



Manual Integration Results

RT: 11.81
Response: 77332
Amount: 0.563240



Reviewer: webbk, 19-Nov-2014 08:09:32
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

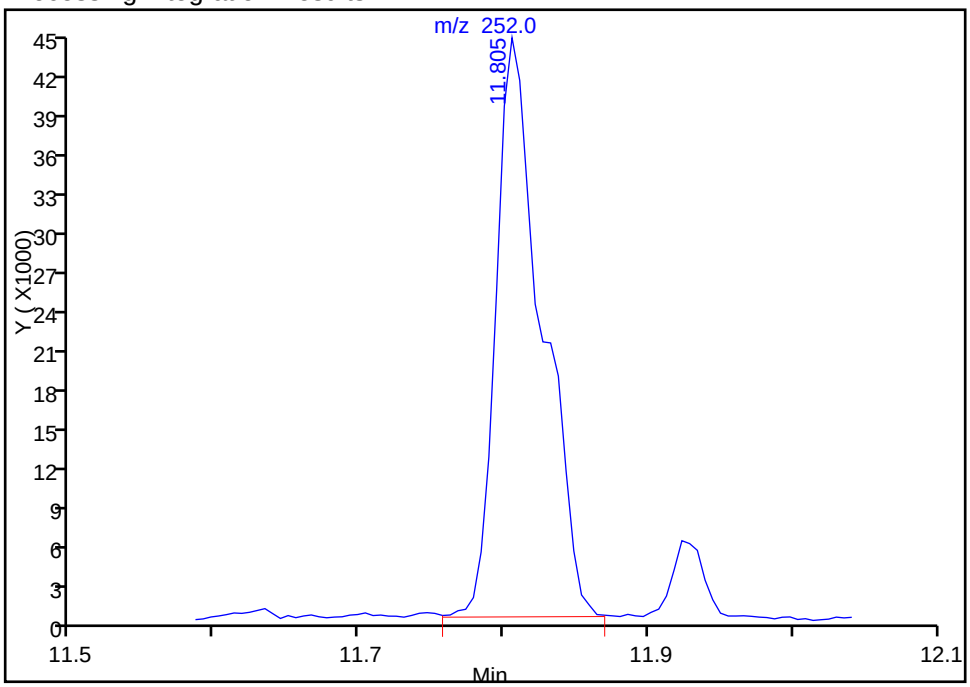
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1732.D				
Injection Date:	18-Nov-2014 22:34:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-16-A	Lab Sample ID:	680-107159-16		
Client ID:	FM0281G-CS24"				
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

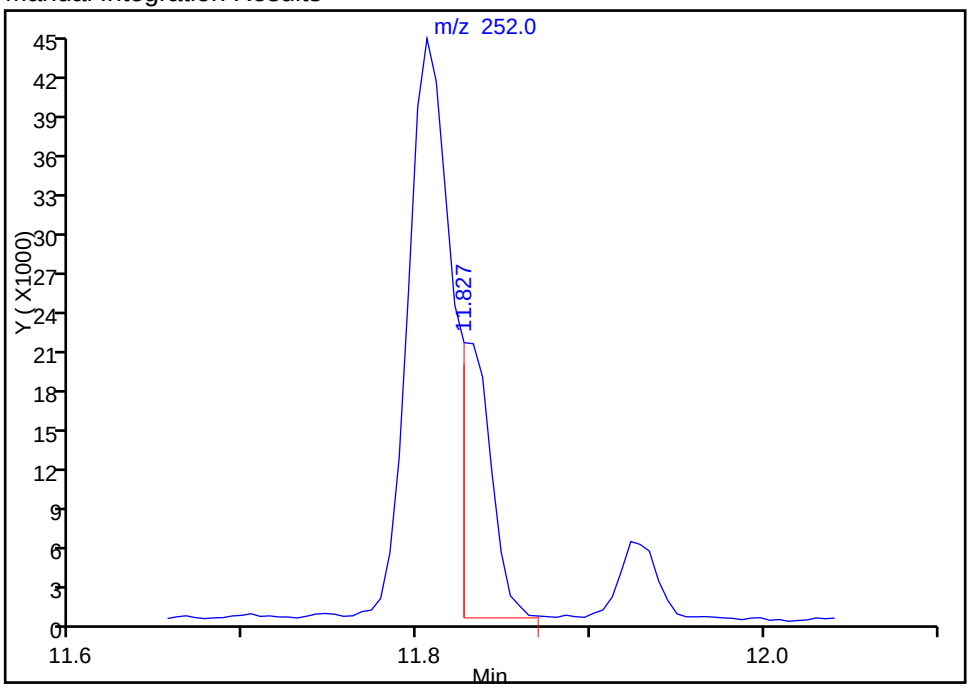
Processing Integration Results

RT: 11.81
Response: 95570
Amount: 0.652921



Manual Integration Results

RT: 11.83
Response: 24943
Amount: 0.169125



Reviewer: webbk, 19-Nov-2014 08:09:32
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281G-CSD12" | Lab Sample ID: 680-107159-17

Matrix: Solid | Lab File ID: 1YK1733.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 11:40

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.07(g) | Date Analyzed: 11/18/2014 22:57

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 16.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	80	U	80	40
208-96-8	Acenaphthylene	80	U	80	40
120-12-7	Anthracene	80	U	80	40
56-55-3	Benzo[a]anthracene	80	U	80	40
50-32-8	Benzo[a]pyrene	33	J	80	14
205-99-2	Benzo[b]fluoranthene	52	J	80	40
191-24-2	Benzo[g,h,i]perylene	53	J	80	40
207-08-9	Benzo[k]fluoranthene	80	U	80	24
218-01-9	Chrysene	44	J	80	40
53-70-3	Dibenz(a,h)anthracene	80	U	80	40
206-44-0	Fluoranthene	50	J	80	40
86-73-7	Fluorene	80	U	80	40
193-39-5	Indeno[1,2,3-cd]pyrene	80	U	80	40
90-12-0	1-Methylnaphthalene	80	U	80	37
91-57-6	2-Methylnaphthalene	80	U	80	40
91-20-3	Naphthalene	80	U	80	40
85-01-8	Phenanthrene	38	J	80	29
129-00-0	Pyrene	80	U	80	40

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1733.D
Lims ID: 680-107159-B-17-A Lab Sample ID: 680-107159-17
Client ID: FM0281G-CSD12"
Sample Type: Client
Inject. Date: 18-Nov-2014 22:57:30 ALS Bottle#: 33 Worklist Smp#: 33
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Sample Info: 107159-B-17-A 1:10
Misc. Info.: 680-0014871-033
Operator ID: Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 19-Nov-2014 08:10:37 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: webbk Date: 19-Nov-2014 08:10:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.264	4.264	0.000	99	458340	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	92	263961	2.00	
* 3 Phenanthrene-d10	188	7.772	7.767	0.005	98	450687	2.00	
* 4 Chrysene-d12	240	10.661	10.655	0.006	99	321102	2.00	
* 5 Perylene-d12	264	12.281	12.265	0.016	98	206179	2.00	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	82	9450	0.0605	
10 1-Methylnaphthalene	142	5.087	5.087	0.000	65	8280	0.0582	
17 Phenanthrene	178	7.799	7.794	0.005	96	25022	0.0951	
18 Anthracene	178	7.853	7.853	0.000	48	2394	0.009679	7
19 Fluoranthene	202	9.131	9.126	0.005	98	31989	0.1239	
21 Benzo[a]anthracene	228	10.650	10.645	0.005	97	13690	0.0764	
22 Chrysene	228	10.687	10.682	0.005	98	17461	0.1097	
23 Benzo[b]fluoranthene	252	11.805	11.795	0.010	98	16438	0.1293	M
24 Benzo[k]fluoranthene	252	11.832	11.827	0.005	98	5504	0.0402	7M
25 Benzo[a]pyrene	252	12.207	12.196	0.010	96	8211	0.0813	
28 Benzo[g,h,i]perylene	276	14.394	14.357	0.037	97	12772	0.1334	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

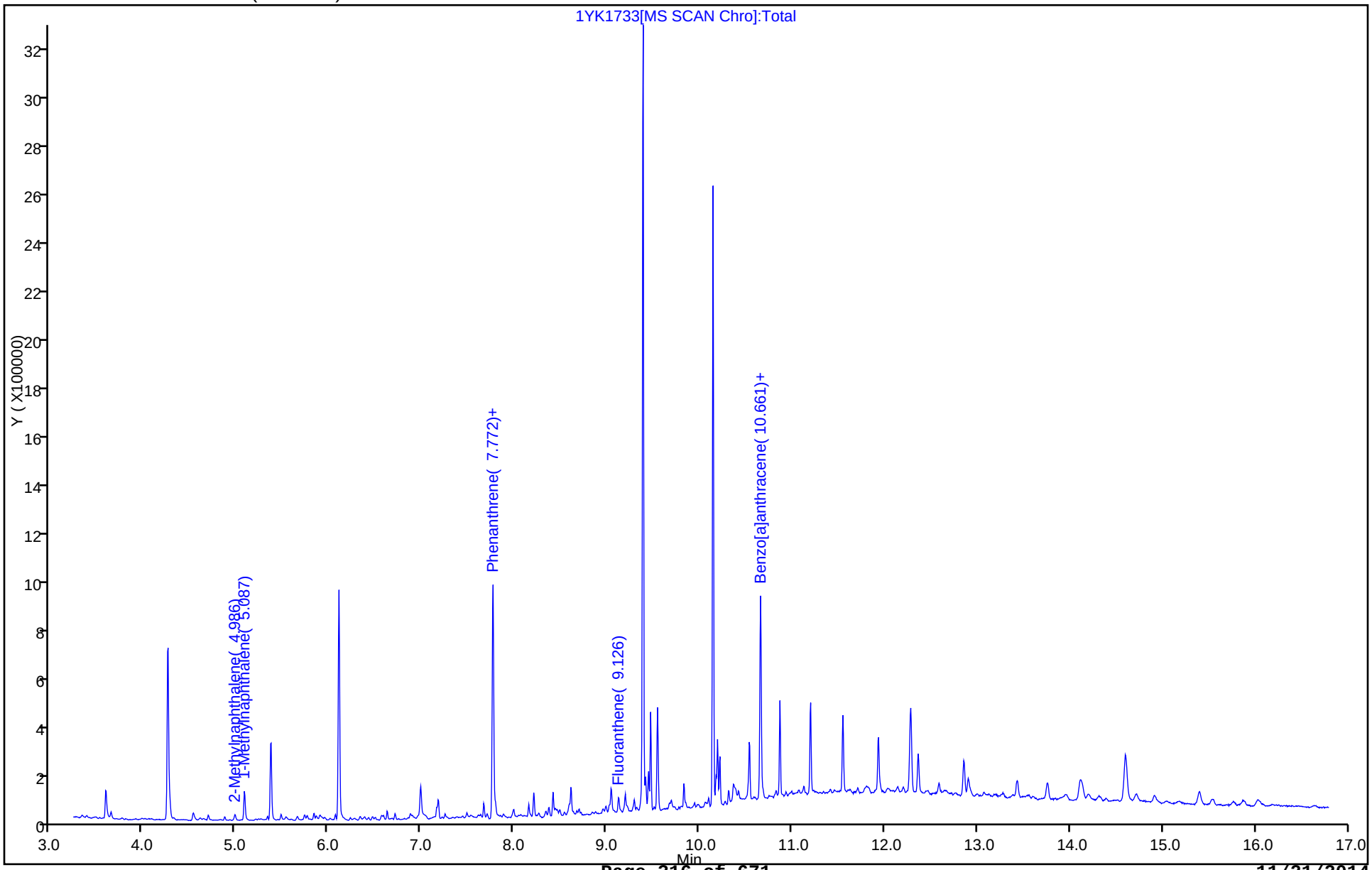
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Nov-2014 08:49:54 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1733.D				
Injection Date:	18-Nov-2014 22:57:30	Instrument ID:	CMSY	Operator ID:	
Lims ID:	680-107159-B-17-A	Lab Sample ID:	680-107159-17	Worklist Smp#:	33
Client ID:	FM0281G-CSD12"				
Injection Vol:	2.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	33
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)

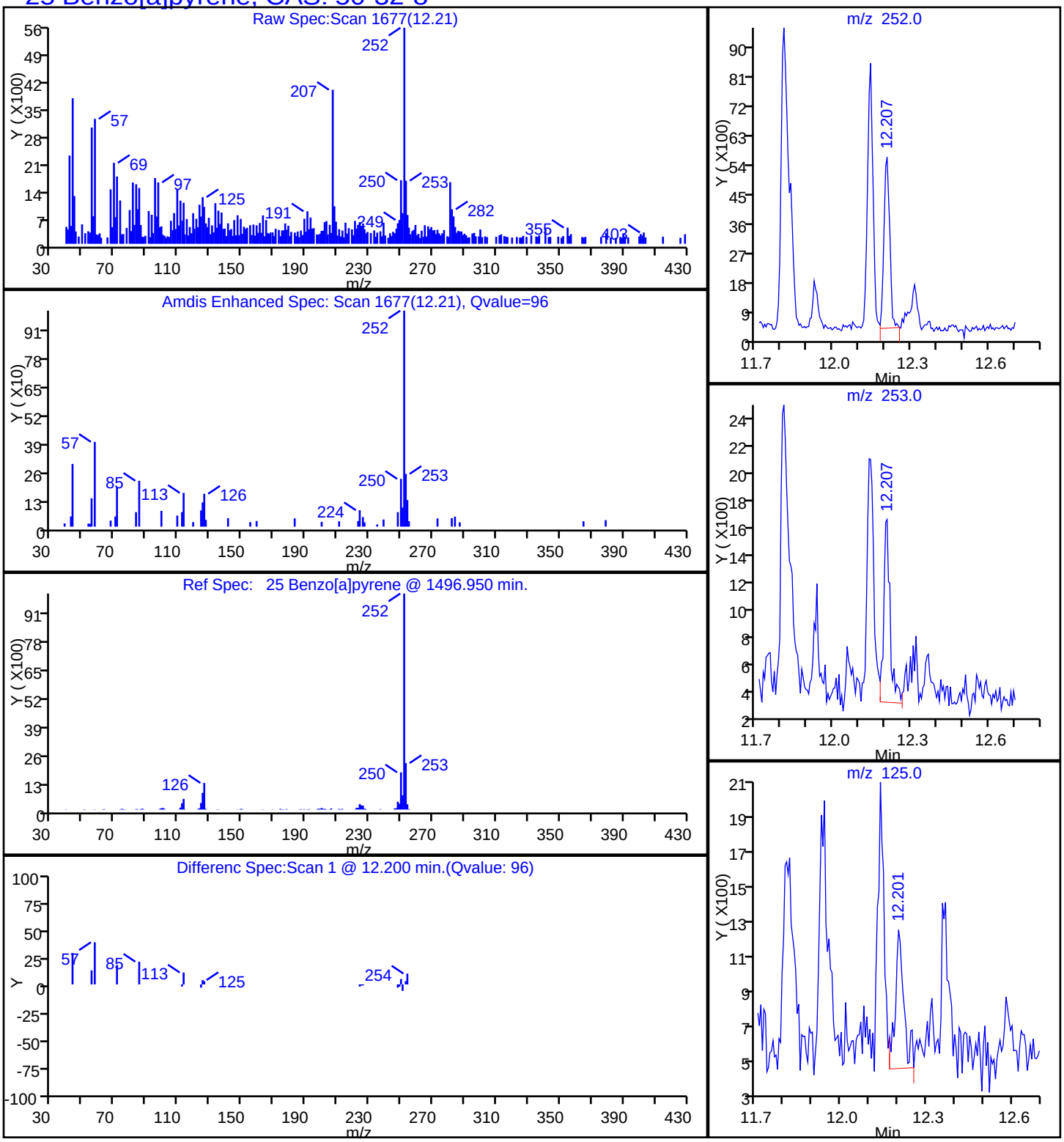


Report Date: 19-Nov-2014 08:49:54 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1733.D				
Injection Date:	18-Nov-2014 22:57:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-17-A	Lab Sample ID:	680-107159-17		
Client ID:	FM0281G-CSD12"				
Operator ID:		ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

25 Benzo[a]pyrene, CAS: 50-32-8

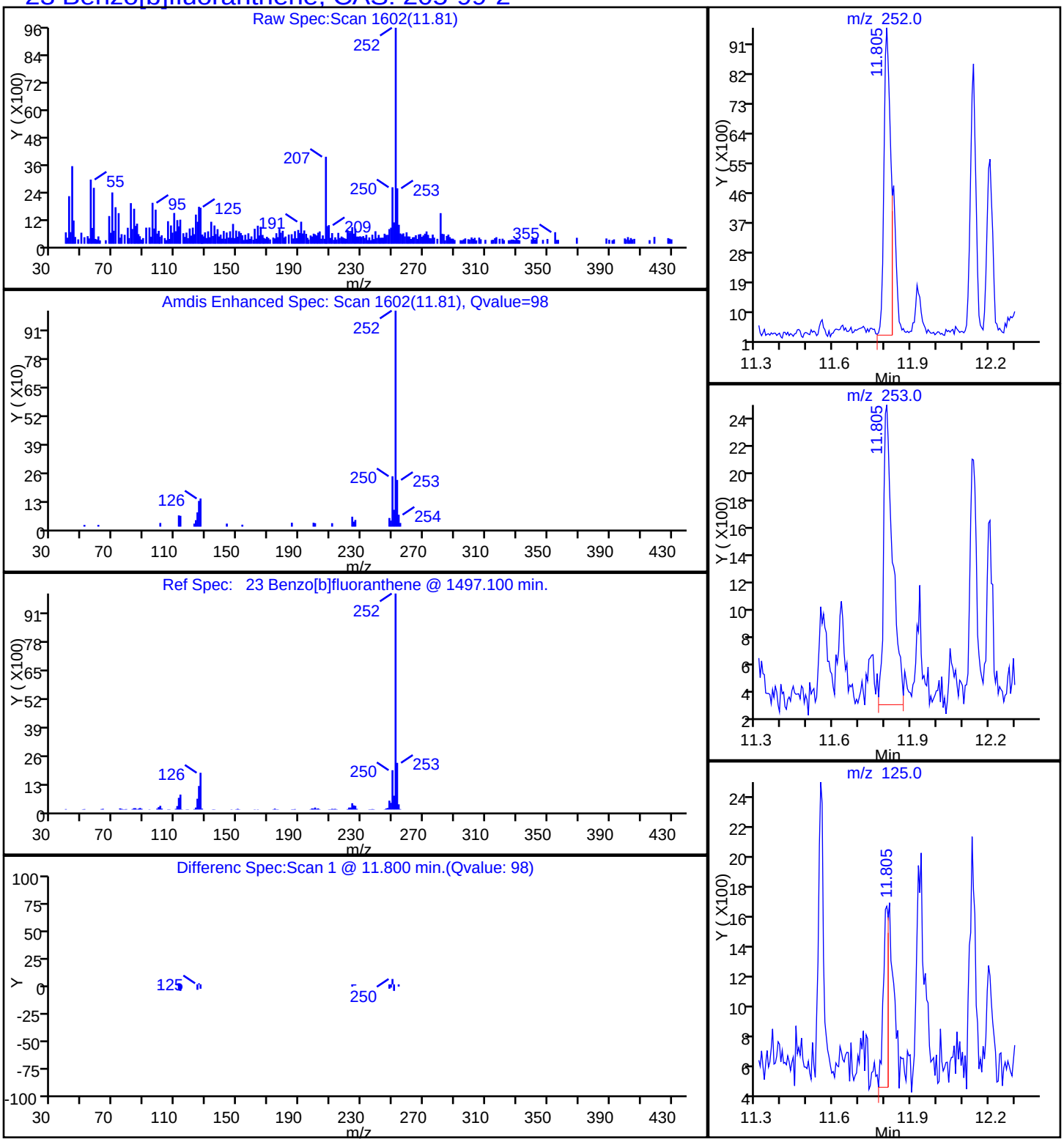


Report Date: 19-Nov-2014 08:49:54 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1733.D				
Injection Date:	18-Nov-2014 22:57:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-17-A	Lab Sample ID:	680-107159-17		
Client ID:	FM0281G-CSD12"				
Operator ID:		ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

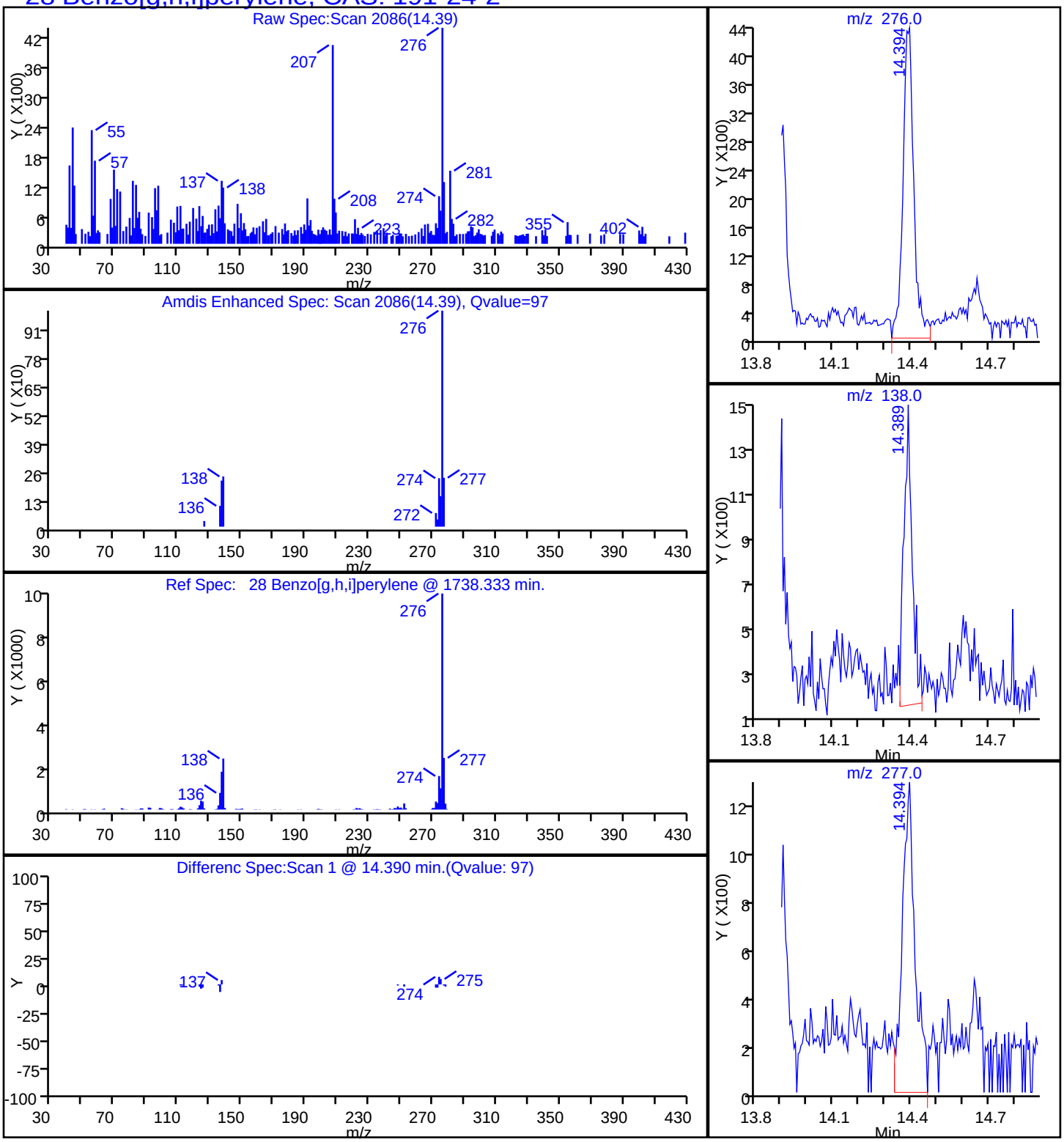


Report Date: 19-Nov-2014 08:49:54 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1733.D				
Injection Date:	18-Nov-2014 22:57:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-17-A	Lab Sample ID:	680-107159-17		
Client ID:	FM0281G-CSD12"				
Operator ID:		ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

28 Benzo[g,h,i]perylene, CAS: 191-24-2

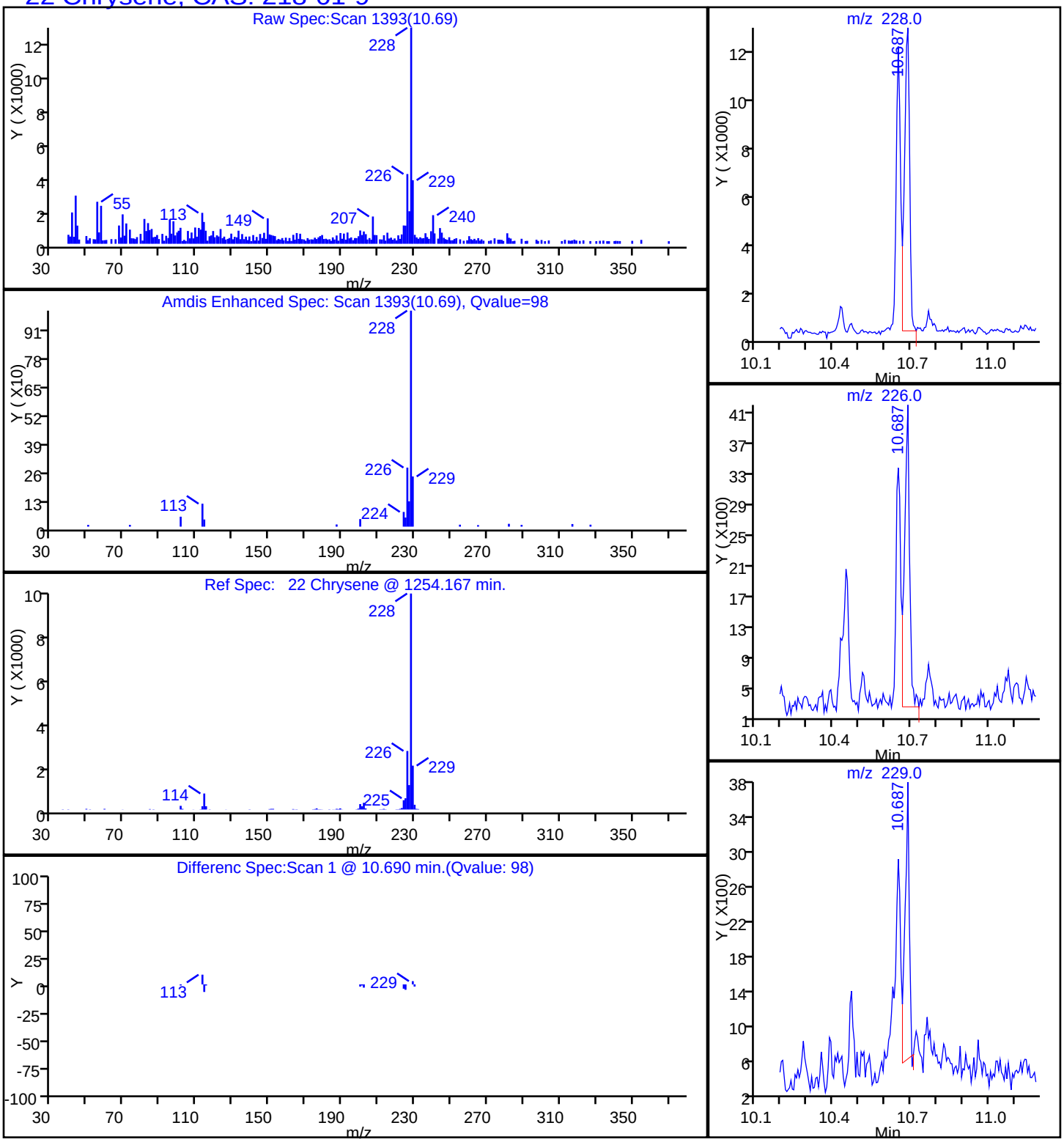


Report Date: 19-Nov-2014 08:49:54 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1733.D				
Injection Date:	18-Nov-2014 22:57:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-17-A	Lab Sample ID:	680-107159-17		
Client ID:	FM0281G-CSD12"				
Operator ID:		ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Chrysene, CAS: 218-01-9

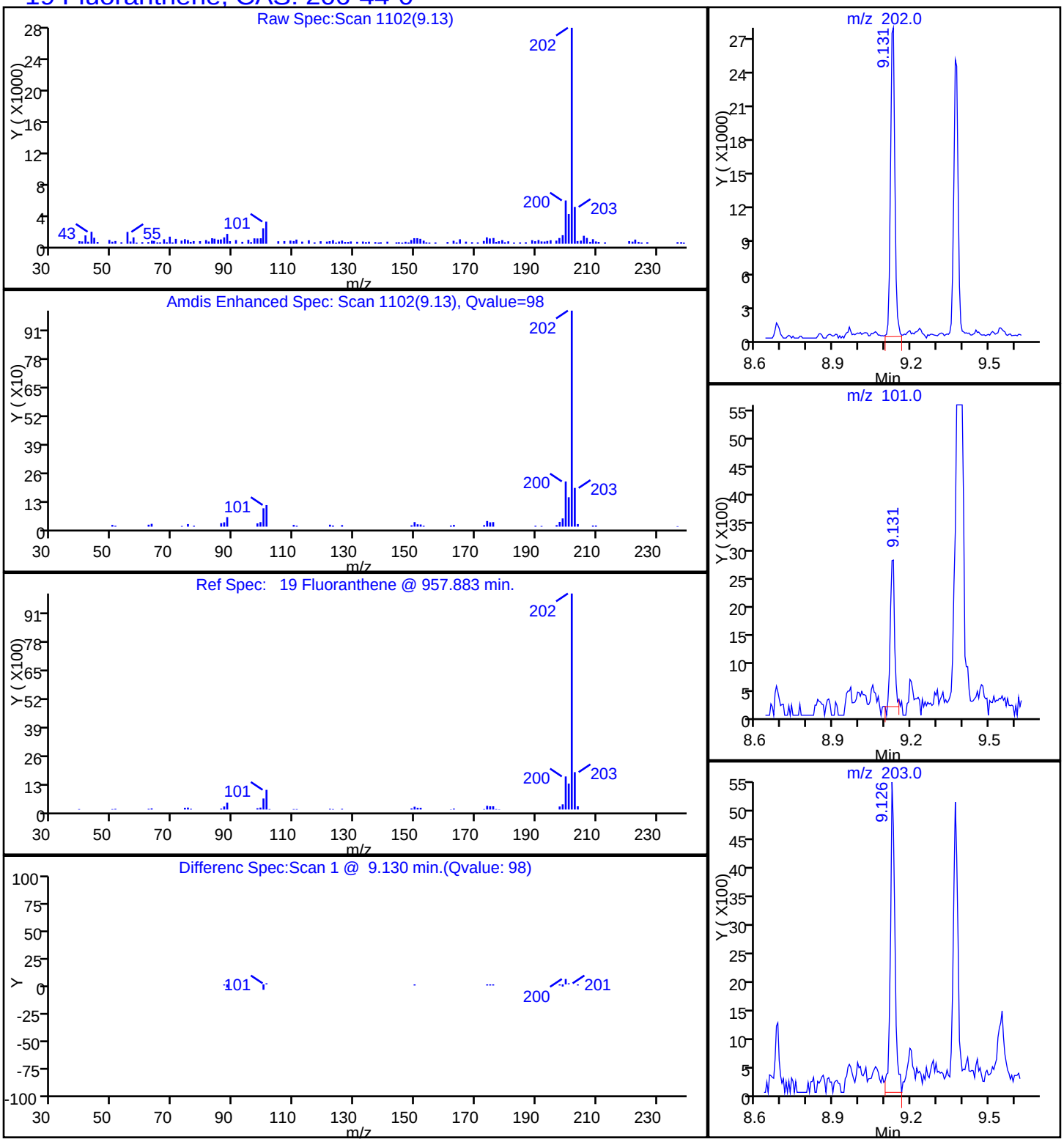


Report Date: 19-Nov-2014 08:49:54 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1733.D				
Injection Date:	18-Nov-2014 22:57:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-17-A	Lab Sample ID:	680-107159-17		
Client ID:	FM0281G-CSD12"				
Operator ID:		ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 Fluoranthene, CAS: 206-44-0

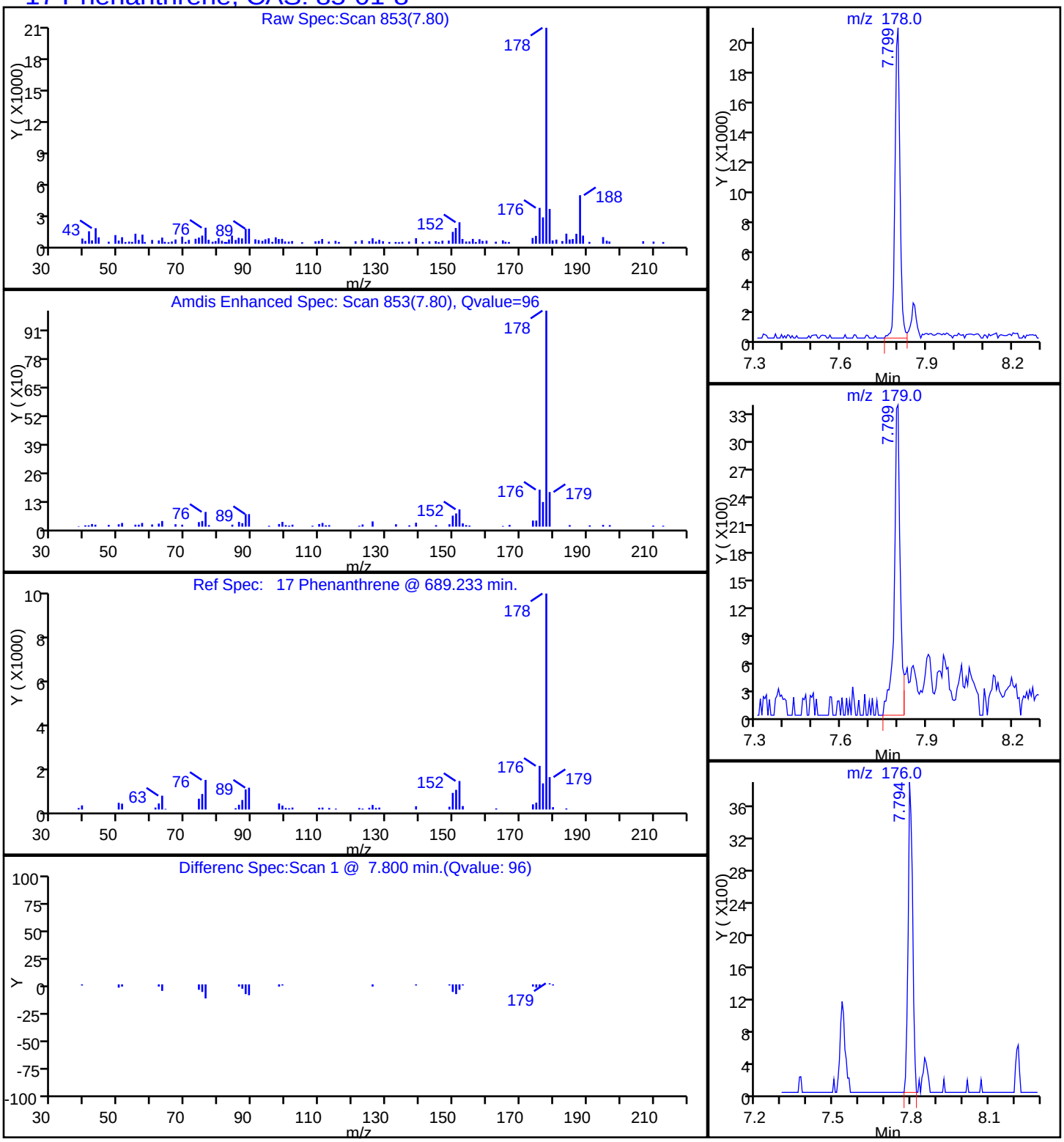


Report Date: 19-Nov-2014 08:49:54 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1733.D				
Injection Date:	18-Nov-2014 22:57:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-17-A	Lab Sample ID:	680-107159-17		
Client ID:	FM0281G-CSD12"				
Operator ID:		ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Phenanthrene, CAS: 85-01-8



Manual Integration/User Assign Peak Report

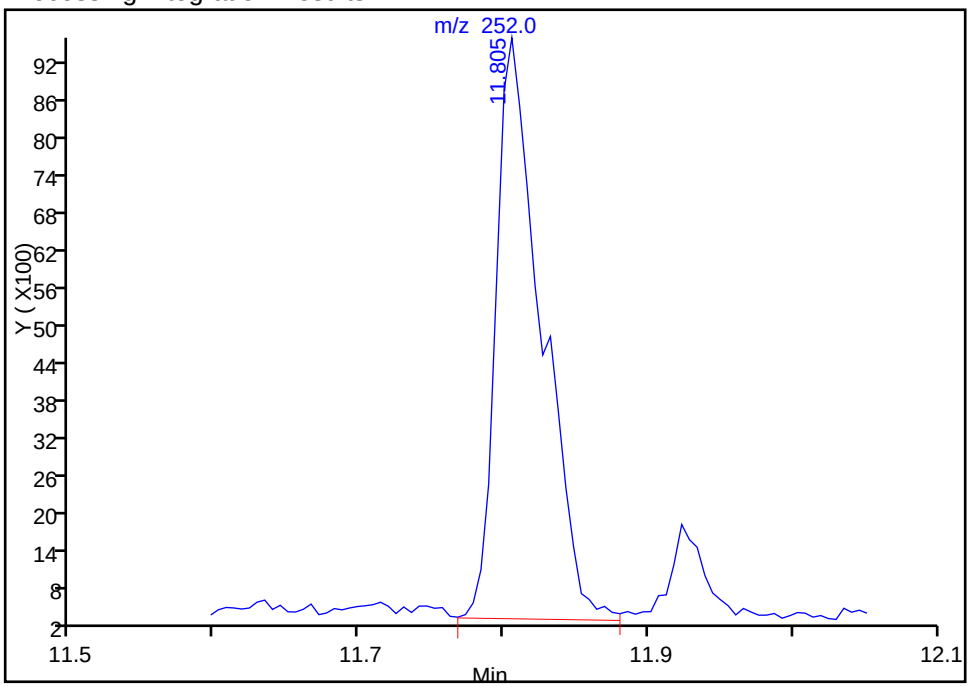
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1733.D				
Injection Date:	18-Nov-2014 22:57:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-17-A	Lab Sample ID:	680-107159-17		
Client ID:	FM0281G-CSD12"				
Operator ID:		ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

23 Benzo[b]fluoranthene, CAS: 205-99-2

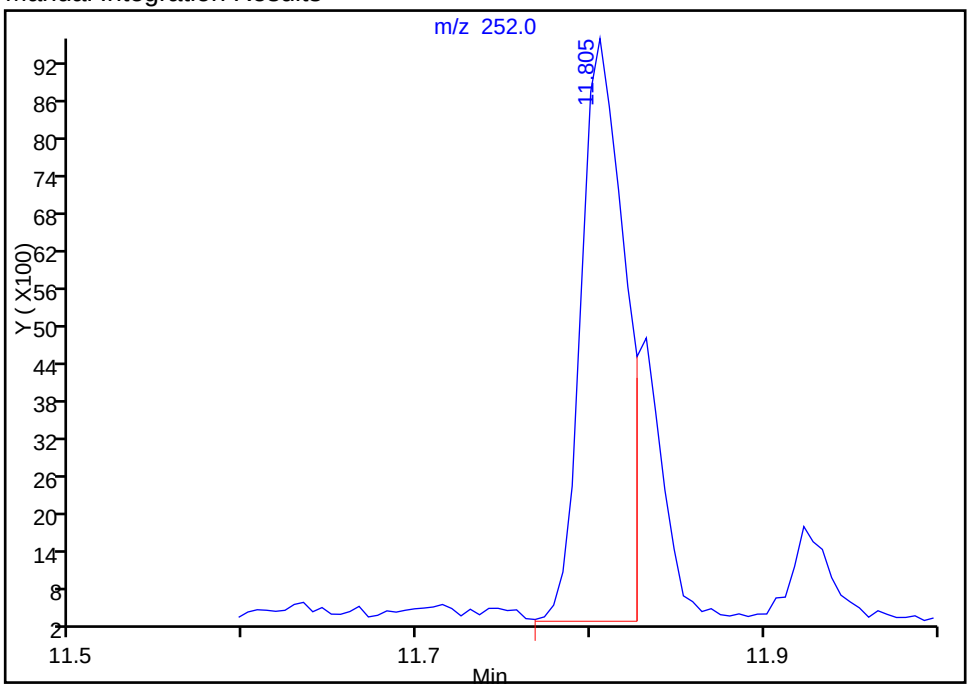
Processing Integration Results

RT: 11.81
Response: 20456
Amount: 0.160939



Manual Integration Results

RT: 11.81
Response: 16438
Amount: 0.129327



Reviewer: webbk, 19-Nov-2014 08:10:37
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

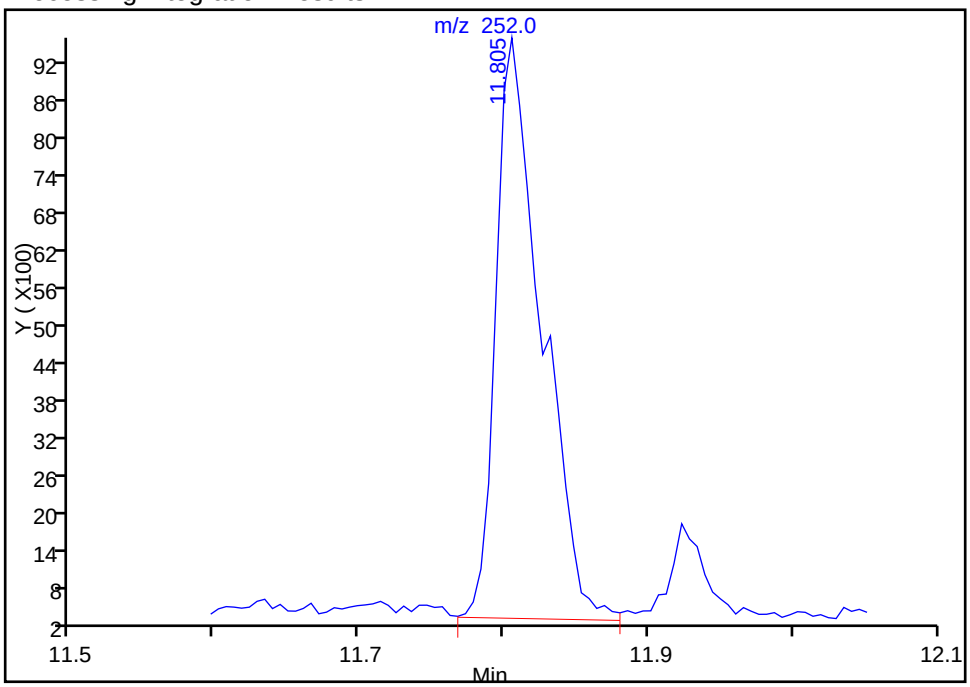
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1733.D				
Injection Date:	18-Nov-2014 22:57:30	Instrument ID:	CMSY		
Lims ID:	680-107159-B-17-A	Lab Sample ID:	680-107159-17		
Client ID:	FM0281G-CSD12"				
Operator ID:		ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

24 Benzo[k]fluoranthene, CAS: 207-08-9

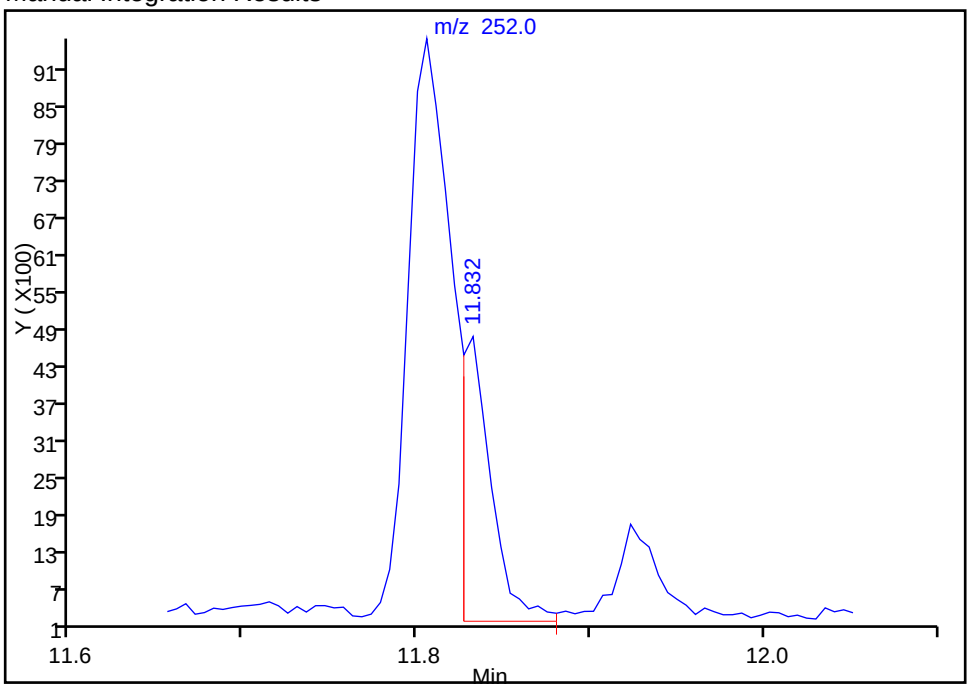
Processing Integration Results

RT: 11.81
Response: 20516
Amount: 0.150221



Manual Integration Results

RT: 11.83
Response: 5504
Amount: 0.040232



Reviewer: webbk, 19-Nov-2014 08:10:37
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-107159-1 Analy Batch No.: 359503

SDG No.: 680-107159-1

Instrument ID: CMSK GC Column: RXi- 5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/19/2014 12:29 Calibration End Date: 11/19/2014 14:45 Calibration ID: 35824

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-359503/3	2KK1903.D
Level 2	IC 680-359503/8	2KK1908.D
Level 3	IC 680-359503/7	2KK1907.D
Level 4	IC 680-359503/6	2KK1906.D
Level 5	ICIS 680-359503/2	2KK1902.D
Level 6	IC 680-359503/5	2KK1905.D
Level 7	IC 680-359503/4	2KK1904.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.0552 1.1793	1.0680 1.1520	1.0793	1.1587	1.1568	Ave		1.1213			0.7000	4.6		20.0			
2-Methylnaphthalene	0.6107 0.7427	0.6327 0.7523	0.6234	0.7053	0.7130	Ave		0.6829			0.4000	8.7		20.0			
1-Methylnaphthalene	0.5549 0.6784	0.5639 0.6845	0.5767	0.6421	0.6507	Ave		0.6216				8.9		20.0			
1,1'-Biphenyl	1.4565 1.7542	1.5091 1.7523	1.5063	1.5861	1.6368	Ave		1.6002				7.5		20.0			
Acenaphthylene	1.6394 2.1963	1.7235 2.1882	1.7372	1.9091	2.0370	QuaF		2.1151	0.0038402						1.0000		0.9900
Acenaphthene	1.1271 1.3693	1.2135 1.3637	1.1644	1.2593	1.3002	Ave		1.2568			0.9000	7.5		20.0			
Dibenzofuran	1.5109 1.9287	1.5744 1.9220	1.5893	1.7372	1.7780	QuaF		1.8540	0.0035685						1.0000		0.9900
Fluorene	1.1633 1.5299	1.1917 1.5090	1.2264	1.3394	1.3999	QuaF		1.4756	0.0018284						1.0000		0.9900
Phenanthrene	1.1021 1.3133	1.1011 1.3714	1.1491	1.1819	1.2434	Ave		1.2089			0.7000	8.7		20.0			
Anthracene	0.9869 1.3038	1.0103 1.3588	1.0515	1.1461	1.2433	QuaF		1.2287	0.0065505						1.0000		0.9900
Fluoranthene	1.0167 1.3707	0.9883 1.4593	1.0662	1.1699	1.2891	QuaF		1.2595	0.0100409						1.0000		0.9900
Pyrene	1.3654 1.2871	1.5173 1.2870	1.4559	1.5306	1.3525	Ave		1.3994			0.6000	7.3		20.0			
Benzo[a]anthracene	1.1283 1.0859	1.1232 1.1364	1.0797	1.1652	1.0977	Ave		1.1166			0.7000	2.7		20.0			
Chrysene	1.0441 1.0328	1.0854 1.0495	1.0381	1.0828	1.0146	Ave		1.0496			0.7000	2.5		20.0			

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 Savannah Job No.: 680-107159-1 Analy Batch No.: 359503

SDG No.: 680-107159-1

Instrument ID: CMSK GC Column: RXi- 5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/19/2014 12:29 Calibration End Date: 11/19/2014 14:45 Calibration ID: 35824

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[b]fluoranthene	1.1725 1.4193	1.1827 1.5482	1.2386	1.2754	1.3003	QuaF		1.2630	0.0143170						1.0000		0.9900
Benzo[k]fluoranthene	1.2045 1.3622	1.2559 1.5044	1.2154	1.3860	1.3599	Ave		1.3269			0.4000	8.1		20.0			
Benzo[a]pyrene	0.9690 1.1601	1.0094 1.2858	0.9976	1.1086	1.1641	QuaF		1.0677	0.0108396						1.0000		0.9900
Indeno[1,2,3-cd]pyrene	0.4482 0.7308	0.6384 0.7383	0.6021	0.7035	0.7205	QuaF		0.7187	0.0009935						1.0000		0.9900
Dibenz(a,h)anthracene	0.6013 0.8122	0.6347 0.8947	0.6499	0.7297	0.7861	QuaF		0.7361	0.0079196						1.0000		0.9900
Benzo[g,h,i]perylene	0.7853 0.8514	0.8133 0.9048	0.7753	0.8696	0.8814	Ave		0.8402			0.2000	5.9		20.0			
o-Terphenyl	0.7353 0.6719	0.8399 0.6836	0.7916	0.8057	0.6814	Ave		0.7442				9.2		20.0			

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 Savannah Job No.: 680-107159-1 Analy Batch No.: 359503

SDG No.: 680-107159-1

Instrument ID: CMSK GC Column: RXi- 5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/19/2014 12:29 Calibration End Date: 11/19/2014 14:45 Calibration ID: 35824

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-359503/3	2KK1903.D
Level 2	IC 680-359503/8	2KK1908.D
Level 3	IC 680-359503/7	2KK1907.D
Level 4	IC 680-359503/6	2KK1906.D
Level 5	ICIS 680-359503/2	2KK1902.D
Level 6	IC 680-359503/5	2KK1905.D
Level 7	IC 680-359503/4	2KK1904.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	47415 4123029	76418 7985220	188789	421965	2173481	0.100 10.0	0.200 20.0	0.500	1.00	5.00
2-Methylnaphthalene	NPT	Ave	27442 2596537	45271 5214238	109050	256863	1339776	0.100 10.0	0.200 20.0	0.500	1.00	5.00
1-Methylnaphthalene	NPT	Ave	24934 2371856	40349 4744266	100871	233840	1222551	0.100 10.0	0.200 20.0	0.500	1.00	5.00
1,1'-Biphenyl	ANT	Ave	34122 3213621	55074 6278296	138009	308725	1654649	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Acenaphthylene	ANT	QuaF	38405 4023630	62900 7839758	159161	371594	2059236	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Acenaphthene	ANT	Ave	26404 2508561	44288 4886045	106680	245115	1314416	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Dibenzofuran	ANT	QuaF	35395 3533426	57458 6886002	145611	338131	1797429	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Fluorene	ANT	QuaF	27253 2802731	43491 5406652	112359	260706	1415192	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Phenanthrene	PHN	Ave	39448 4061810	62172 7846622	163368	374263	2008144	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Anthracene	PHN	QuaF	35327 4032422	57046 7774352	149499	362923	2008135	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Fluoranthene	PHN	QuaF	36391 4239439	55805 8349224	151586	370472	2082091	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Pyrene	CRY	Ave	37290 4516183	60329 8706443	160084	395200	2225946	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[a]anthracene	CRY	Ave	30815 3810221	44659 7687815	118727	300843	1806653	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Chrysene	CRY	Ave	28515 3623761	43154 7099713	114151	279584	1669898	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[b]fluoranthene	PRY	QuaF	22758 3625319	33976 7167126	94114	236058	1558254	0.100 10.0	0.200 20.0	0.500	1.00	5.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-107159-1 Analy Batch No.: 359503

SDG No.: 680-107159-1

Instrument ID: CMSK GC Column: RXi- 5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/19/2014 12:29 Calibration End Date: 11/19/2014 14:45 Calibration ID: 35824

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[k]fluoranthene	PRY	Ave	23380 3479383	36079 6964087	92350	256546	1629680	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[a]pyrene	PRY	QuaF	18809 2963345	28998 5952314	75802	205193	1394963	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Indeno[1,2,3-cd]pyrene	CRY	QuaF	12240 2564177	25382 4994780	66202	181651	1185808	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Dibenz(a,h)anthracene	PRY	QuaF	11672 2074709	18234 4141923	49385	135055	942035	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[g,h,i]perylene	PRY	Ave	15243 2174810	23362 4188703	58913	160963	1056206	0.100 10.0	0.200 20.0	0.500	1.00	5.00
o-Terphenyl	CRY	Ave	20083 2357411	33393 4624573	87038	208022	1121420	0.100 10.0	0.200 20.0	0.500	1.00	5.00

Curve Type Legend:
Ave = Average ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1902.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 19-Nov-2014 12:29:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS
Misc. Info.: 680-0014922-002
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:34 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 19-Nov-2014 12:56:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.114	3.114	0.000	100	751580	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	92	404374	2.00	2.00	
* 3 Phenanthrene-d10	188	6.363	6.363	0.000	98	646042	2.00	2.00	
* 4 Chrysene-d12	240	9.196	9.196	0.000	99	658322	2.00	2.00	
* 5 Perylene-d12	264	10.518	10.518	0.000	98	479342	2.00	2.00	
$ 6 o-Terphenyl	230	6.839	6.839	0.000	89	1121420	5.00	4.58	
7 Naphthalene	128	3.138	3.138	0.000	99	2173481	5.00	5.16	
9 2-Methylnaphthalene	142	3.778	3.778	0.000	85	1339776	5.00	5.22	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	81	1222551	5.00	5.23	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	98	1654649	5.00	5.11	
11 Acenaphthylene	152	4.654	4.654	0.000	97	2059236	5.00	4.77	
12 Acenaphthene	153	4.842	4.842	0.000	95	1314416	5.00	5.17	
13 Dibenzofuran	168	5.024	5.024	0.000	99	1797429	5.00	4.75	
14 Fluorene	166	5.382	5.382	0.000	95	1415192	5.00	4.72	
15 Phenanthrene	178	6.393	6.393	0.000	98	2008144	5.00	5.14	
16 Anthracene	178	6.446	6.446	0.000	98	2008135	5.00	4.93	
17 Fluoranthene	202	7.674	7.674	0.000	98	2082091	5.00	4.92	
18 Pyrene	202	7.909	7.909	0.000	97	2225946	5.00	4.83	
19 Benzo[a]anthracene	228	9.190	9.190	0.000	99	1806653	5.00	4.92	
20 Chrysene	228	9.225	9.225	0.000	98	1669898	5.00	4.83	
21 Benzo[b]fluoranthene	252	10.200	10.200	0.000	99	1558254	5.00	4.88	
22 Benzo[k]fluoranthene	252	10.224	10.224	0.000	99	1629680	5.00	5.12	
23 Benzo[a]pyrene	252	10.471	10.471	0.000	97	1394963	5.00	5.18	
24 Indeno[1,2,3-cd]pyrene	276	11.399	11.399	0.000	99	1185808	5.00	4.98	
25 Dibenz(a,h)anthracene	278	11.422	11.422	0.000	98	942035	5.00	5.06	
26 Benzo[g,h,i]perylene	276	11.634	11.634	0.000	98	1056206	5.00	5.25	

Reagents:

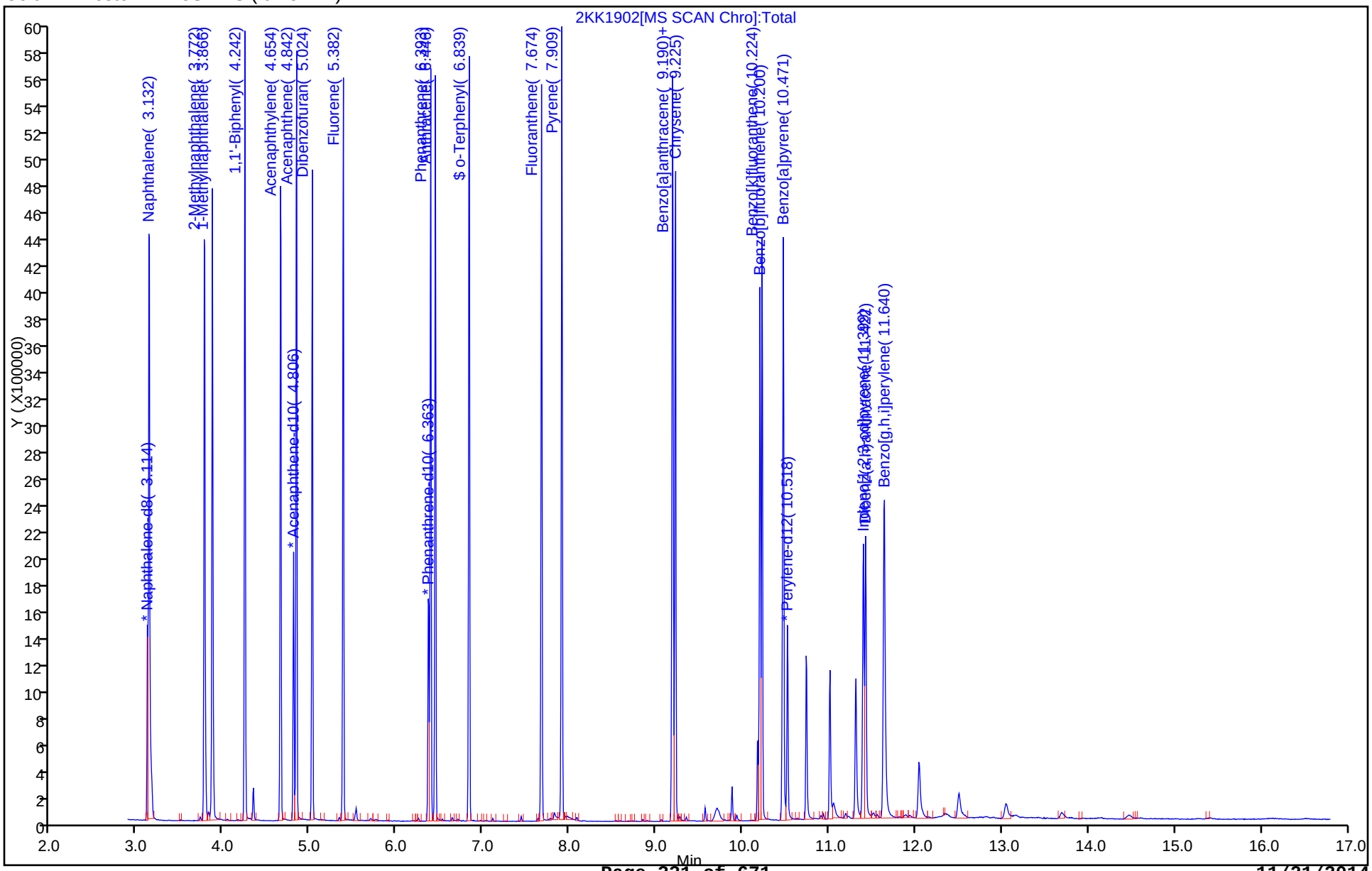
SMLLPAH5.0LVI_00025 Amount Added: 1.00 Units: mL

Report Date: 20-Nov-2014 10:09:35 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1902.D				
Injection Date:	19-Nov-2014 12:29:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	ICIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1903.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 19-Nov-2014 12:51:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014922-003
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:34 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 19-Nov-2014 13:22:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.114	3.114	0.000	100	898712	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	93	468534	2.00	2.00	
* 3 Phenanthrene-d10	188	6.363	6.363	0.000	99	715900	2.00	2.00	
* 4 Chrysene-d12	240	9.190	9.196	-0.006	99	546230	2.00	2.00	
* 5 Perylene-d12	264	10.517	10.518	-0.001	99	388199	2.00	2.00	
$ 6 o-Terphenyl	230	6.833	6.839	-0.006	87	20083	0.1000	0.0988	
7 Naphthalene	128	3.132	3.138	-0.006	98	47415	0.1000	0.0941	
9 2-Methylnaphthalene	142	3.772	3.778	-0.006	82	27442	0.1000	0.0894	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	90	24934	0.1000	0.0893	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	98	34122	0.1000	0.0910	
11 Acenaphthylene	152	4.654	4.654	0.000	97	38405	0.1000	0.0775	
12 Acenaphthene	153	4.836	4.842	-0.006	96	26404	0.1000	0.0897	
13 Dibenzofuran	168	5.018	5.024	-0.006	99	35395	0.1000	0.0815	
14 Fluorene	166	5.376	5.382	-0.006	95	27253	0.1000	0.0788	
15 Phenanthrene	178	6.387	6.393	-0.006	98	39448	0.1000	0.0912	
16 Anthracene	178	6.440	6.446	-0.006	98	35327	0.1000	0.0803	
17 Fluoranthene	202	7.668	7.674	-0.006	97	36391	0.1000	0.0807	
18 Pyrene	202	7.903	7.909	-0.006	97	37290	0.1000	0.0976	
19 Benzo[a]anthracene	228	9.184	9.190	-0.006	99	30815	0.1000	0.1010	
20 Chrysene	228	9.213	9.225	-0.012	97	28515	0.1000	0.0995	
21 Benzo[b]fluoranthene	252	10.194	10.200	-0.006	96	22758	0.1000	0.0927	
22 Benzo[k]fluoranthene	252	10.218	10.224	-0.006	98	23380	0.1000	0.0908	
23 Benzo[a]pyrene	252	10.465	10.471	-0.005	97	18809	0.1000	0.0907	
24 Indeno[1,2,3-cd]pyrene	276	11.387	11.399	-0.012	99	12240	0.1000	0.0624	
25 Dibenz(a,h)anthracene	278	11.410	11.422	-0.012	96	11672	0.1000	0.0816	
26 Benzo[g,h,i]perylene	276	11.622	11.634	-0.012	96	15243	0.1000	0.0935	

Reagents:

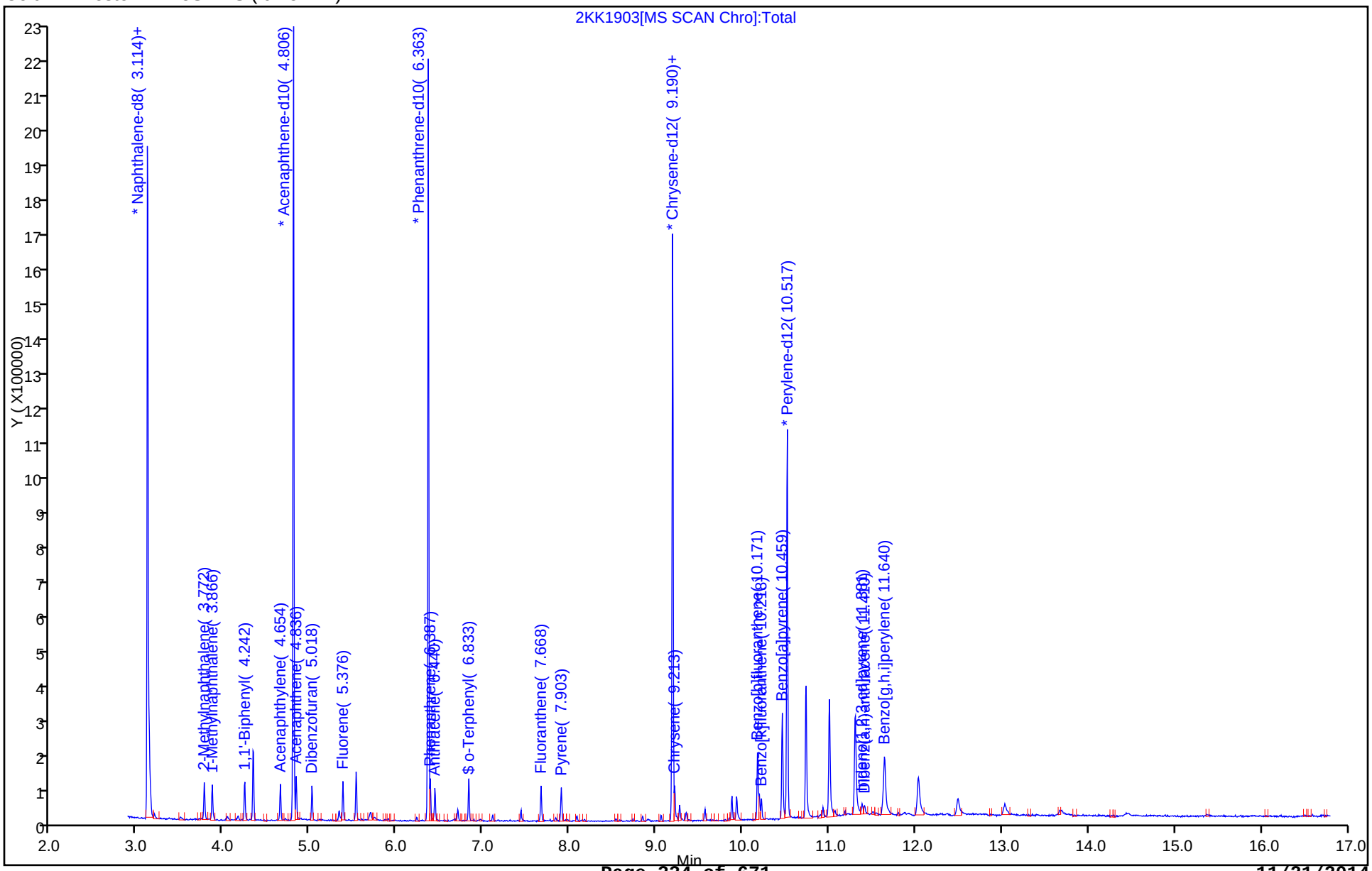
SMLLPAH0.1LVI_00022 Amount Added: 1.00 Units: mL

Report Date: 20-Nov-2014 10:09:34 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1903.D				
Injection Date:	19-Nov-2014 12:51:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	IC			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1904.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 19-Nov-2014 13:14:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014922-004
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:33 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 19-Nov-2014 13:33:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.120	3.114	0.006	99	693150	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	93	358282	2.00	2.00	
* 3 Phenanthrene-d10	188	6.369	6.363	0.006	98	572148	2.00	2.00	
* 4 Chrysene-d12	240	9.207	9.196	0.011	99	676496	2.00	2.00	
* 5 Perylene-d12	264	10.523	10.518	0.005	98	462921	2.00	2.00	
$ 6 o-Terphenyl	230	6.839	6.839	0.000	90	4624573	20.0	18.4	
7 Naphthalene	128	3.138	3.138	0.000	99	7985220	20.0	20.5	
9 2-Methylnaphthalene	142	3.778	3.778	0.000	85	5214238	20.0	22.0	
8 1-Methylnaphthalene	142	3.872	3.866	0.006	92	4744266	20.0	22.0	
10 1,1'-Biphenyl	154	4.248	4.242	0.006	99	6278296	20.0	21.9	
11 Acenaphthylene	152	4.659	4.654	0.005	98	7839758	20.0	20.0	
12 Acenaphthene	153	4.847	4.842	0.005	95	4886045	20.0	21.7	
13 Dibenzofuran	168	5.030	5.024	0.006	100	6886002	20.0	20.0	
14 Fluorene	166	5.388	5.382	0.006	95	5406652	20.0	20.0	
15 Phenanthrene	178	6.399	6.393	0.006	97	7846622	20.0	22.7	
16 Anthracene	178	6.457	6.446	0.011	99	7774352	20.0	20.0	
17 Fluoranthene	202	7.685	7.674	0.011	98	8349224	20.0	20.0	
18 Pyrene	202	7.920	7.909	0.011	97	8706443	20.0	18.4	
19 Benzo[a]anthracene	228	9.195	9.190	0.005	98	7687815	20.0	20.4	
20 Chrysene	228	9.236	9.225	0.011	98	7099713	20.0	20.0	
21 Benzo[b]fluoranthene	252	10.212	10.200	0.012	98	7167126	20.0	20.0	
22 Benzo[k]fluoranthene	252	10.241	10.224	0.017	98	6964087	20.0	22.7	
23 Benzo[a]pyrene	252	10.482	10.471	0.012	98	5952314	20.0	20.0	
24 Indeno[1,2,3-cd]pyrene	276	11.410	11.399	0.011	99	4994780	20.0	20.0	
25 Dibenz(a,h)anthracene	278	11.434	11.422	0.012	99	4141923	20.0	20.0	
26 Benzo[g,h,i]perylene	276	11.657	11.634	0.023	99	4188703	20.0	21.5	

Reagents:

SMLLPAH20LVI_00025 Amount Added: 1.00 Units: mL

Report Date: 20-Nov-2014 10:09:33 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1904.D

Injection Date: 19-Nov-2014 13:14:30 Instrument ID: CMSK Operator ID: RM

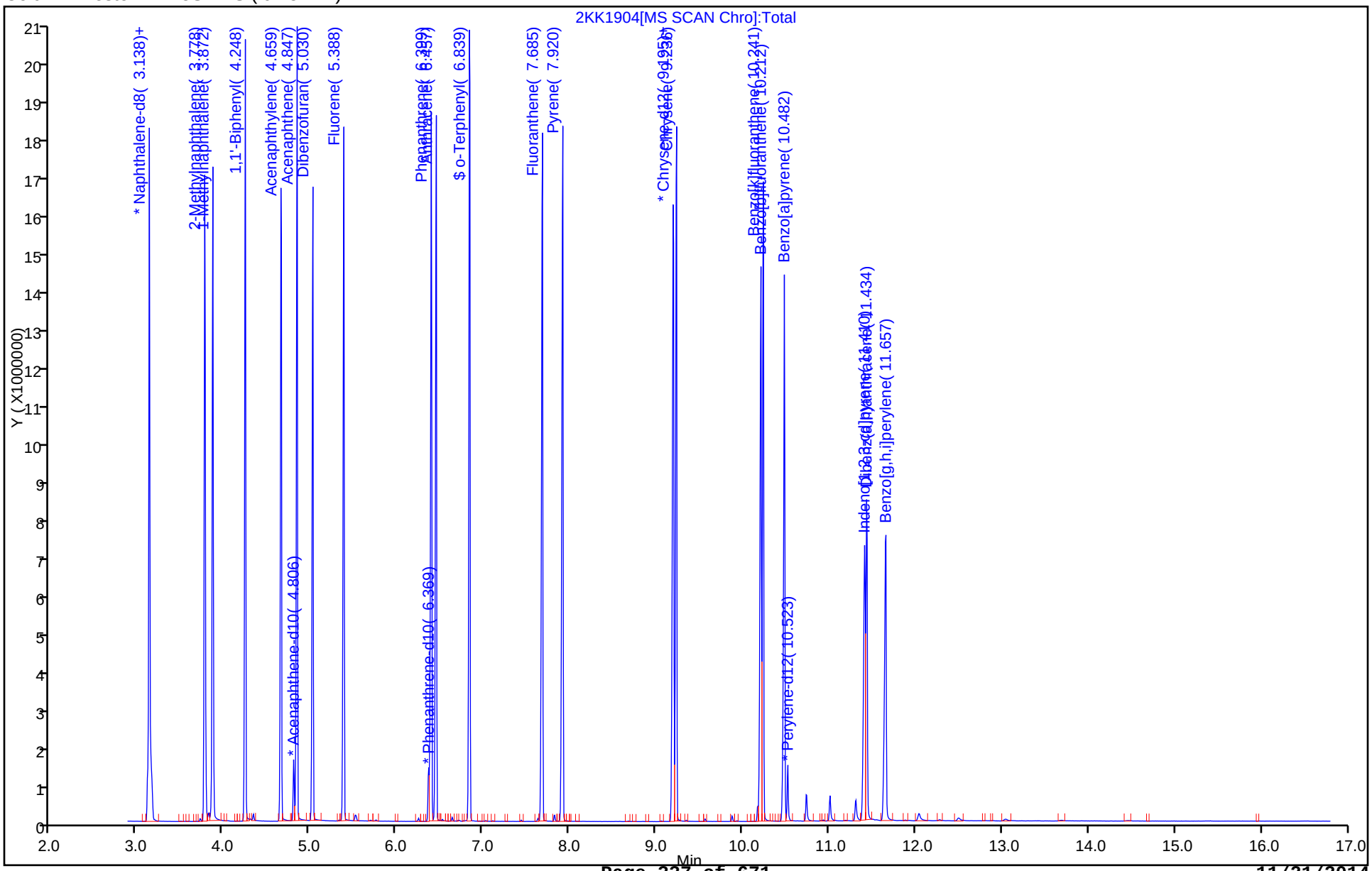
Lims ID: IC Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8270_LLPAH_CMSK Limit Group: 8270D_LL_PAH

Column: Restek RXi-5Sil MS (0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1905.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 19-Nov-2014 13:36:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014922-005
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:32 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 19-Nov-2014 15:28:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.114	3.114	0.000	99	699243	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	94	366400	2.00	2.00	
* 3 Phenanthrene-d10	188	6.363	6.363	0.000	99	618575	2.00	2.00	
* 4 Chrysene-d12	240	9.201	9.196	0.005	99	701756	2.00	2.00	
* 5 Perylene-d12	264	10.523	10.518	0.005	98	510861	2.00	2.00	
$ 6 o-Terphenyl	230	6.839	6.839	0.000	90	2357411	10.0	9.03	
7 Naphthalene	128	3.138	3.138	0.000	99	4123029	10.0	10.5	
9 2-Methylnaphthalene	142	3.778	3.778	0.000	85	2596537	10.0	10.9	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	92	2371856	10.0	10.9	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	99	3213621	10.0	11.0	
11 Acenaphthylene	152	4.659	4.654	0.005	98	4023630	10.0	10.2	
12 Acenaphthene	153	4.842	4.842	0.000	95	2508561	10.0	10.9	
13 Dibenzofuran	168	5.024	5.024	0.000	100	3533426	10.0	10.2	
14 Fluorene	166	5.382	5.382	0.000	95	2802731	10.0	10.2	
15 Phenanthrene	178	6.393	6.393	0.000	97	4061810	10.0	10.9	
16 Anthracene	178	6.451	6.446	0.005	99	4032422	10.0	10.1	
17 Fluoranthene	202	7.679	7.674	0.005	98	4239439	10.0	10.1	
18 Pyrene	202	7.914	7.909	0.005	97	4516183	10.0	9.20	
19 Benzo[a]anthracene	228	9.189	9.190	-0.001	99	3810221	10.0	9.72	
20 Chrysene	228	9.225	9.225	0.000	98	3623761	10.0	9.84	
21 Benzo[b]fluoranthene	252	10.206	10.200	0.006	99	3625319	10.0	10.1	
22 Benzo[k]fluoranthene	252	10.229	10.224	0.005	99	3479383	10.0	10.3	
23 Benzo[a]pyrene	252	10.476	10.471	0.006	97	2963345	10.0	9.88	
24 Indeno[1,2,3-cd]pyrene	276	11.405	11.399	0.006	99	2564177	10.0	10.0	
25 Dibenz(a,h)anthracene	278	11.428	11.422	0.006	99	2074709	10.0	9.97	
26 Benzo[g,h,i]perylene	276	11.645	11.634	0.011	98	2174810	10.0	10.1	

Reagents:

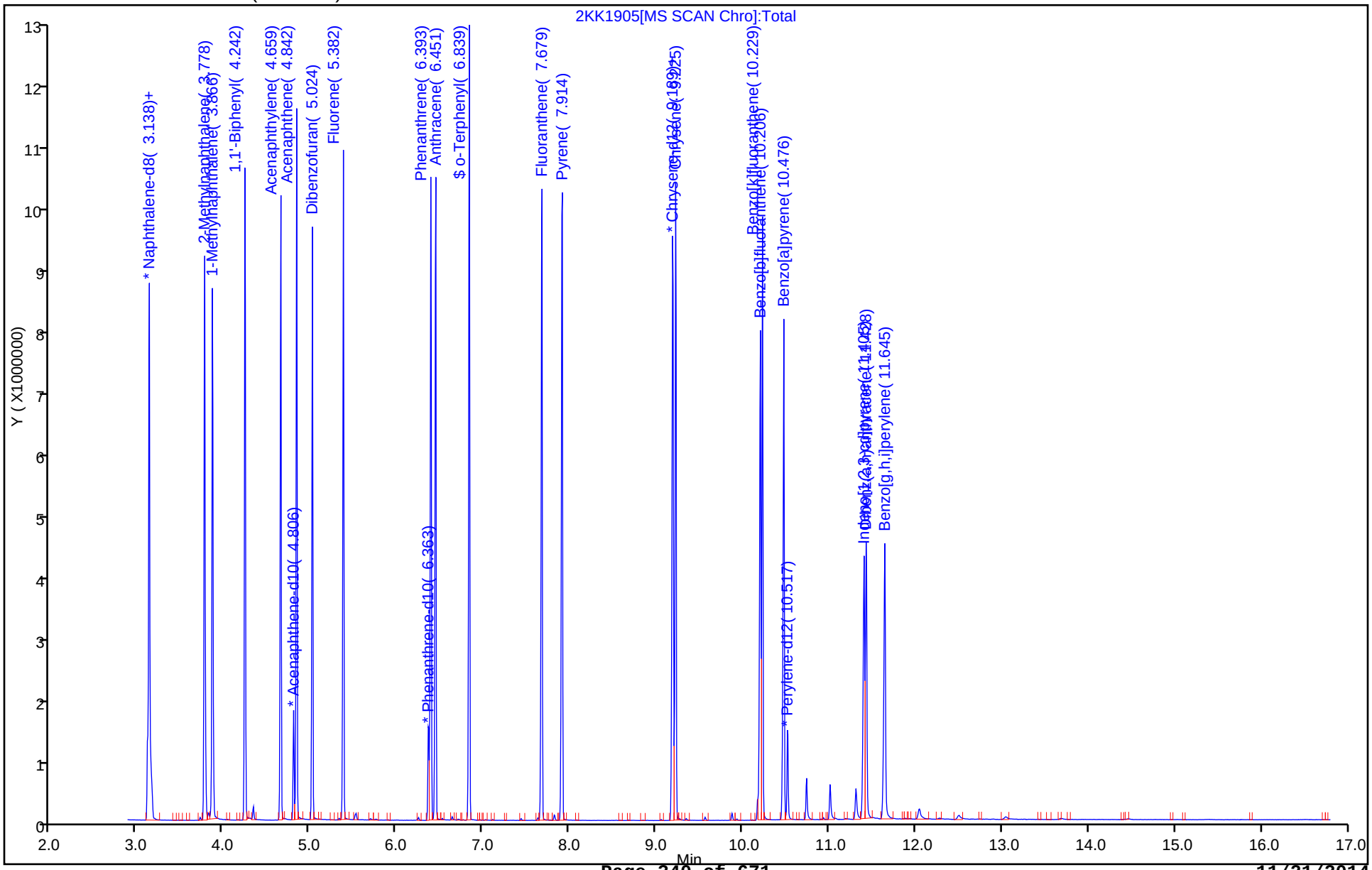
SMLLPAH10LVI_00022 Amount Added: 1.00 Units: mL

Report Date: 20-Nov-2014 10:09:32 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1905.D				
Injection Date:	19-Nov-2014 13:36:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1906.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 19-Nov-2014 13:59:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014922-006
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:31 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 19-Nov-2014 15:28:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.114	3.114	0.000	100	728351	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	92	389288	2.00	2.00	
* 3 Phenanthrene-d10	188	6.363	6.363	0.000	99	633314	2.00	2.00	
* 4 Chrysene-d12	240	9.189	9.196	-0.007	99	516395	2.00	2.00	
* 5 Perylene-d12	264	10.517	10.518	-0.001	98	370183	2.00	2.00	
$ 6 o-Terphenyl	230	6.833	6.839	-0.006	89	208022	1.00	1.08	
7 Naphthalene	128	3.132	3.138	-0.006	99	421965	1.00	1.03	
9 2-Methylnaphthalene	142	3.772	3.778	-0.006	84	256863	1.00	1.03	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	93	233840	1.00	1.03	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	98	308725	1.00	0.99	
11 Acenaphthylene	152	4.653	4.654	-0.001	97	371594	1.00	0.9011	
12 Acenaphthene	153	4.836	4.842	-0.006	96	245115	1.00	1.00	
13 Dibenzofuran	168	5.018	5.024	-0.006	99	338131	1.00	0.9353	
14 Fluorene	166	5.376	5.382	-0.006	95	260706	1.00	0.9067	
15 Phenanthrene	178	6.387	6.393	-0.006	98	374263	1.00	0.9777	
16 Anthracene	178	6.440	6.446	-0.006	98	362923	1.00	0.9282	
17 Fluoranthene	202	7.668	7.674	-0.006	97	370472	1.00	0.9221	
18 Pyrene	202	7.903	7.909	-0.006	97	395200	1.00	1.09	
19 Benzo[a]anthracene	228	9.184	9.190	-0.006	99	300843	1.00	1.04	
20 Chrysene	228	9.219	9.225	-0.006	98	279584	1.00	1.03	
21 Benzo[b]fluoranthene	252	10.194	10.200	-0.006	98	236058	1.00	1.00	
22 Benzo[k]fluoranthene	252	10.218	10.224	-0.006	99	256546	1.00	1.04	
23 Benzo[a]pyrene	252	10.464	10.471	-0.006	97	205193	1.00	1.03	
24 Indeno[1,2,3-cd]pyrene	276	11.387	11.399	-0.012	98	181651	1.00	0.9776	
25 Dibenz(a,h)anthracene	278	11.416	11.422	-0.006	97	135055	1.00	0.9809	
26 Benzo[g,h,i]perylene	276	11.622	11.634	-0.012	98	160963	1.00	1.04	

Reagents:

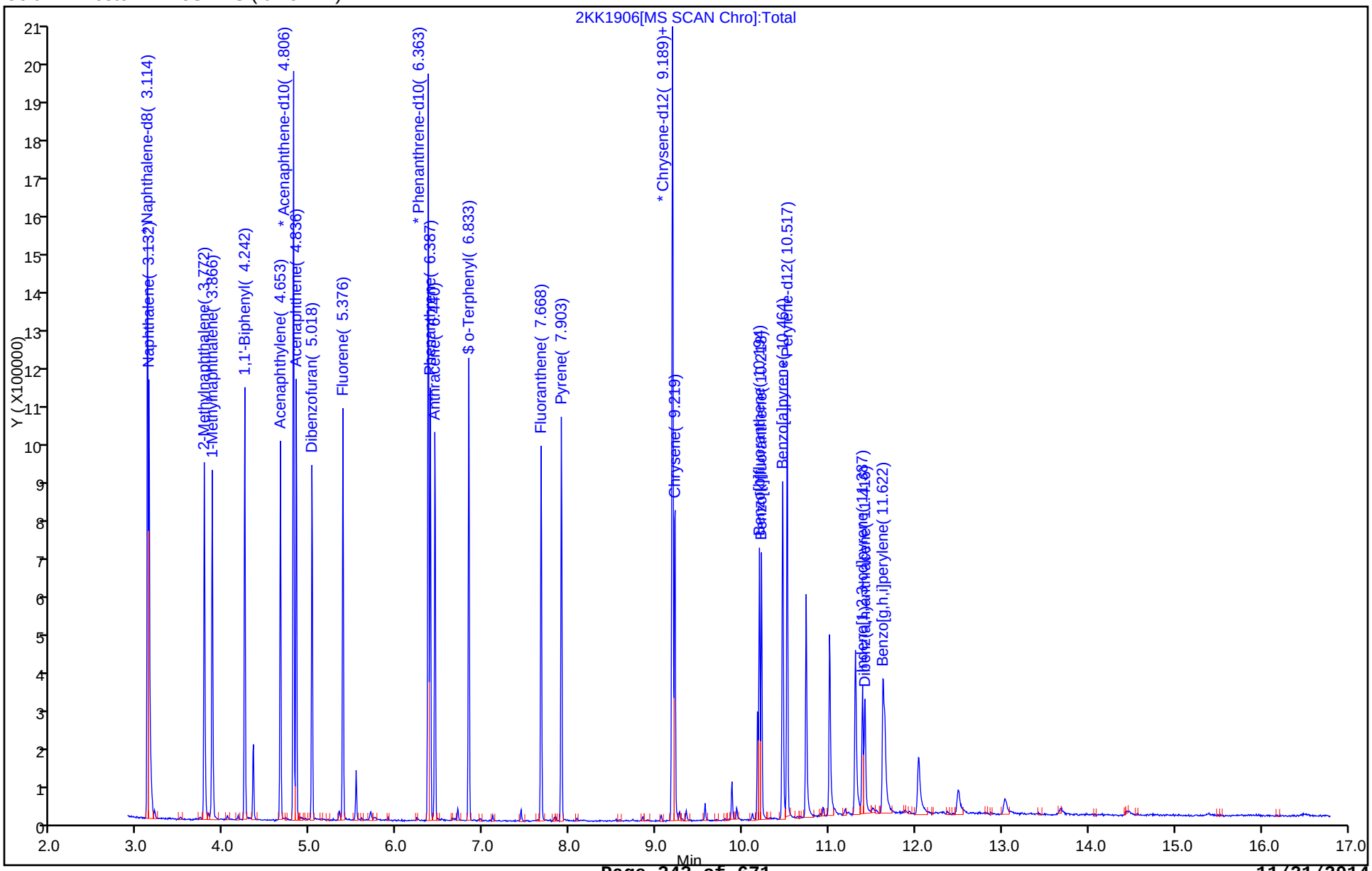
SMLLPAH1.0LVI_00020 Amount Added: 1.00 Units: mL

Report Date: 20-Nov-2014 10:09:31 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1906.D				
Injection Date:	19-Nov-2014 13:59:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1907.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 19-Nov-2014 14:22:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014922-007
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:30 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 19-Nov-2014 15:29:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.114	3.114	0.000	100	699657	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	93	366481	2.00	2.00	
* 3 Phenanthrene-d10	188	6.363	6.363	0.000	99	568683	2.00	2.00	
* 4 Chrysene-d12	240	9.189	9.196	-0.007	99	439834	2.00	2.00	
* 5 Perylene-d12	264	10.517	10.518	-0.001	98	303940	2.00	2.00	
$ 6 o-Terphenyl	230	6.833	6.839	-0.006	90	87038	0.5000	0.5318	
7 Naphthalene	128	3.132	3.138	-0.006	98	188789	0.5000	0.4813	
9 2-Methylnaphthalene	142	3.772	3.778	-0.006	84	109050	0.5000	0.4565	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	92	100871	0.5000	0.4639	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	98	138009	0.5000	0.4707	
11 Acenaphthylene	152	4.653	4.654	-0.001	97	159161	0.5000	0.4103	
12 Acenaphthene	153	4.836	4.842	-0.006	96	106680	0.5000	0.4632	
13 Dibenzofuran	168	5.018	5.024	-0.006	99	145611	0.5000	0.4283	
14 Fluorene	166	5.376	5.382	-0.006	95	112359	0.5000	0.4153	
15 Phenanthrene	178	6.387	6.393	-0.006	97	163368	0.5000	0.4753	
16 Anthracene	178	6.440	6.446	-0.006	98	149499	0.5000	0.4269	
17 Fluoranthene	202	7.668	7.674	-0.006	97	151586	0.5000	0.4219	
18 Pyrene	202	7.903	7.909	-0.006	96	160084	0.5000	0.5202	
19 Benzo[a]anthracene	228	9.184	9.190	-0.006	99	118727	0.5000	0.4835	
20 Chrysene	228	9.213	9.225	-0.012	98	114151	0.5000	0.4945	
21 Benzo[b]fluoranthene	252	10.194	10.200	-0.006	98	94114	0.5000	0.4876	
22 Benzo[k]fluoranthene	252	10.218	10.224	-0.006	98	92350	0.5000	0.4580	
23 Benzo[a]pyrene	252	10.464	10.471	-0.006	97	75802	0.5000	0.4650	
24 Indeno[1,2,3-cd]pyrene	276	11.387	11.399	-0.012	99	66202	0.5000	0.4186	
25 Dibenz(a,h)anthracene	278	11.416	11.422	-0.006	95	49385	0.5000	0.4394	
26 Benzo[g,h,i]perylene	276	11.622	11.634	-0.012	98	58913	0.5000	0.4614	

Reagents:

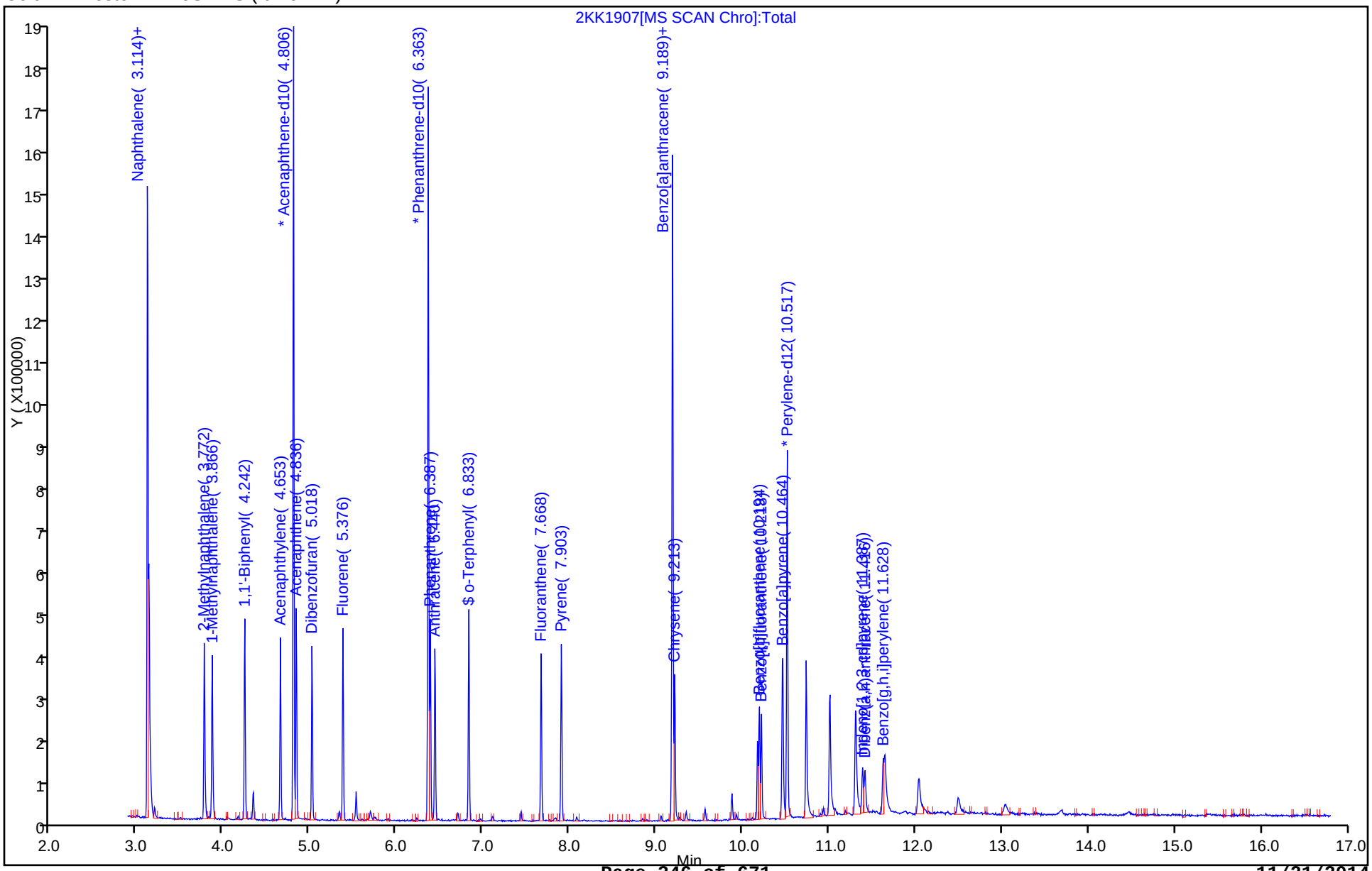
SMLLPAH0.5LVI_00022 Amount Added: 1.00 Units: mL

Report Date: 20-Nov-2014 10:09:30 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1907.D				
Injection Date:	19-Nov-2014 14:22:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	IC			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 19-Nov-2014 14:45:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014922-008
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:29 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 19-Nov-2014 15:29:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.114	3.114	0.000	99	715503	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	93	364951	2.00	2.00	
* 3 Phenanthrene-d10	188	6.363	6.363	0.000	99	564640	2.00	2.00	
* 4 Chrysene-d12	240	9.189	9.196	-0.007	99	397600	2.00	2.00	
* 5 Perylene-d12	264	10.517	10.518	-0.001	98	287267	2.00	2.00	
$ 6 o-Terphenyl	230	6.833	6.839	-0.006	89	33393	0.2000	0.2257	
7 Naphthalene	128	3.132	3.138	-0.006	98	76418	0.2000	0.1905	
9 2-Methylnaphthalene	142	3.772	3.778	-0.006	85	45271	0.2000	0.1853	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	92	40349	0.2000	0.1814	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	98	55074	0.2000	0.1886	
11 Acenaphthylene	152	4.654	4.654	0.000	98	62900	0.2000	0.1629	
12 Acenaphthene	153	4.836	4.842	-0.006	97	44288	0.2000	0.1931	
13 Dibenzofuran	168	5.018	5.024	-0.006	99	57458	0.2000	0.1698	
14 Fluorene	166	5.376	5.382	-0.006	95	43491	0.2000	0.1615	
15 Phenanthrene	178	6.387	6.393	-0.006	97	62172	0.2000	0.1822	
16 Anthracene	178	6.440	6.446	-0.006	98	57046	0.2000	0.1643	
17 Fluoranthene	202	7.668	7.674	-0.006	97	55805	0.2000	0.1567	
18 Pyrene	202	7.903	7.909	-0.006	97	60329	0.2000	0.2169	
19 Benzo[a]anthracene	228	9.184	9.190	-0.006	99	44659	0.2000	0.2012	
20 Chrysene	228	9.213	9.225	-0.012	98	43154	0.2000	0.2068	
21 Benzo[b]fluoranthene	252	10.194	10.200	-0.006	96	33976	0.2000	0.1869	
22 Benzo[k]fluoranthene	252	10.218	10.224	-0.006	98	36079	0.2000	0.1893	
23 Benzo[a]pyrene	252	10.464	10.471	-0.006	96	28998	0.2000	0.1887	
24 Indeno[1,2,3-cd]pyrene	276	11.393	11.399	-0.006	98	25382	0.2000	0.1776	
25 Dibenz(a,h)anthracene	278	11.422	11.422	0.000	94	18234	0.2000	0.1721	
26 Benzo[g,h,i]perylene	276	11.628	11.634	-0.006	96	23362	0.2000	0.1936	

Reagents:

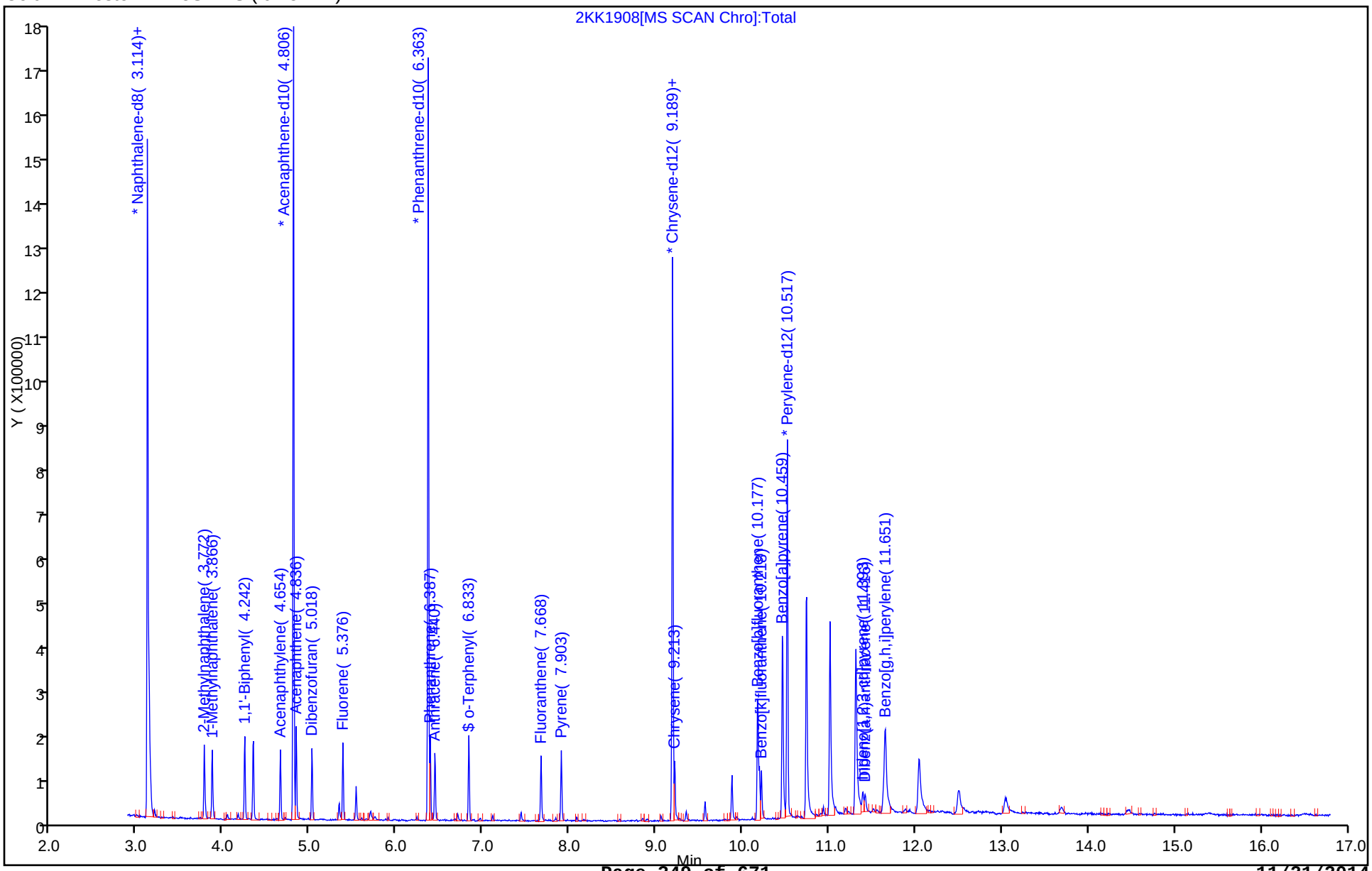
SMLLPAH0.2LVI_00021 Amount Added: 1.00 Units: mL

Report Date: 20-Nov-2014 10:09:29 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D				
Injection Date:	19-Nov-2014 14:45:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	IC			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-107159-1 Analy Batch No.: 359245

SDG No.: 680-107159-1

Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2014 11:20 Calibration End Date: 11/18/2014 13:33 Calibration ID: 35803

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-359245/3	1YK1703.D
Level 2	IC 680-359245/8	1YK1708.D
Level 3	IC 680-359245/7	1YK1707.D
Level 4	IC 680-359245/6	1YK1706.D
Level 5	ICIS 680-359245/2	1YK1702.D
Level 6	IC 680-359245/5	1YK1705.D
Level 7	IC 680-359245/4	1YK1704.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.1060 0.9989	1.0932 0.9002	1.0826	1.1542	1.0324	Ave		1.0525			0.7000	8.0		20.0			
2-Methylnaphthalene	0.6724 0.6431	0.7255 0.5909	0.7208	0.7495	0.6669	Ave		0.6813			0.4000	8.1		20.0			
1-Methylnaphthalene	0.6329 0.5802	0.6482 0.5368	0.6502	0.6897	0.6102	Ave		0.6212				8.1		20.0			
1,1'-Biphenyl	1.5970 1.4684	1.6368 1.3715	1.6374	1.6632	1.5536	Ave		1.5611				6.8		20.0			
Acenaphthylene	1.7276 1.8129	1.9011 1.7190	1.8730	2.0192	1.9327	Ave		1.8551			0.9000	5.9		20.0			
Acenaphthene	1.3196 1.1363	1.3347 1.0859	1.2981	1.3649	1.2216	Ave		1.2516			0.9000	8.5		20.0			
Dibenzofuran	1.7633 1.5604	1.7499 1.4838	1.7390	1.8132	1.6651	Ave		1.6821				7.1		20.0			
Fluorene	1.3022 1.2802	1.3731 1.2122	1.3924	1.4546	1.3481	Ave		1.3375			0.9000	6.0		20.0			
Phenanthrene	1.2173 1.0850	1.2388 0.9966	1.2219	1.2902	1.1118	QuaF		1.1686	-0.008595						1.0000		0.9900
Anthracene	1.0055 1.0855	1.1164 1.0194	1.1188	1.2313	1.1063	Ave		1.0976			0.7000	6.8		20.0			
Fluoranthene	1.0521 1.1392	1.1200 1.1006	1.1996	1.2597	1.1482	Ave		1.1456			0.6000	5.9		20.0			
Pyrene	1.5394 1.1875	1.4525 1.1493	1.4369	1.5300	1.2305	QuaF		1.2465	-0.004913						1.0000		0.9900
Benzo[a]anthracene	1.1300 1.0462	1.1319 1.1060	1.1308	1.1742	1.0892	Ave		1.1155			0.7000	3.6		20.0			
Chrysene	1.2109 0.9527	1.1898 0.9608	1.1348	1.2615	1.0271	QuaF		0.9916	-0.001649						0.9990		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 Savannah Job No.: 680-107159-1 Analy Batch No.: 359245

SDG No.: 680-107159-1

Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2014 11:20 Calibration End Date: 11/18/2014 13:33 Calibration ID: 35803

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[b]fluoranthene	1.1758 1.1589	1.2731 1.2773	1.2132	1.2615	1.2708	Ave		1.2329			0.4000	4.1		20.0			
Benzo[k]fluoranthene	1.2379 1.1392	1.2193 0.9144	1.2343	1.3046	1.1801	QuaF		1.3279	-0.020603						1.0000		0.9900
Benzo[a]pyrene	0.8998 0.9780	0.9886 0.9529	0.9789	1.0609	0.9959	Ave		0.9793			0.4000	4.9		20.0			
Indeno[1,2,3-cd]pyrene	0.8485 0.9212	0.8183 0.9045	0.8703	0.9577	0.7393	Ave		0.8657			0.2000	8.4		20.0			
Dibenz(a,h)anthracene	0.9432 0.8160	0.8066 0.7961	0.8290	0.8623	0.7431	Ave		0.8280			0.2000	7.5		20.0			
Benzo[g,h,i]perylene	1.0358 0.8887	0.9520 0.8484	0.9816	0.9786	0.8151	Ave		0.9286			0.2000	8.6		20.0			
o-Terphenyl	0.9410 0.5883	0.7972 0.5721	0.7548	0.8242	0.6489	QuaF		0.6364	-0.003284						0.9990		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 Savannah Job No.: 680-107159-1 Analy Batch No.: 359245

SDG No.: 680-107159-1

Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2014 11:20 Calibration End Date: 11/18/2014 13:33 Calibration ID: 35803

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-359245/3	1YK1703.D
Level 2	IC 680-359245/8	1YK1708.D
Level 3	IC 680-359245/7	1YK1707.D
Level 4	IC 680-359245/6	1YK1706.D
Level 5	ICIS 680-359245/2	1YK1702.D
Level 6	IC 680-359245/5	1YK1705.D
Level 7	IC 680-359245/4	1YK1704.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	23502 1837796	44020 3488711	105094	226101	1017919	0.100 10.0	0.200 20.0	0.500	1.00	5.00
2-Methylnaphthalene	NPT	Ave	14289 1183230	29215 2289758	69973	146823	657565	0.100 10.0	0.200 20.0	0.500	1.00	5.00
1-Methylnaphthalene	NPT	Ave	13448 1067482	26100 2080460	63122	135114	601640	0.100 10.0	0.200 20.0	0.500	1.00	5.00
1,1'-Biphenyl	ANT	Ave	17607 1470733	35371 2822346	86741	181121	806133	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Acenaphthylene	ANT	Ave	19047 1815724	41082 3537562	99223	219884	1002871	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Acenaphthene	ANT	Ave	14549 1138110	28843 2234733	68764	148635	633867	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Dibenzofuran	ANT	Ave	19441 1562815	37814 3053447	92123	197453	864015	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Fluorene	ANT	Ave	14357 1282190	29672 2494511	73762	158404	699509	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Phenanthrene	PHN	QuaF	22277 1750360	44218 3398316	107787	227076	952871	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Anthracene	PHN	Ave	18401 1751076	39848 3476058	98686	216711	948081	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Fluoranthene	PHN	Ave	19254 1837813	39979 3752812	105813	221712	984026	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Pyrene	CRY	QuaF	20038 1919834	43121 3911245	112692	234467	1018055	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[a]anthracene	CRY	Ave	14709 1691426	33604 3764015	88681	179948	901168	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Chrysene	CRY	QuaF	15762 1540283	35322 3269690	89000	193333	849771	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[b]fluoranthene	PRY	Ave	11268 1685575	31800 3981606	81005	173285	841310	0.100 10.0	0.200 20.0	0.500	1.00	5.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-107159-1 Analy Batch No.: 359245

SDG No.: 680-107159-1

Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2014 11:20 Calibration End Date: 11/18/2014 13:33 Calibration ID: 35803

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[k]fluoranthene	PRY	QuaF	11863 1656875	30457 2850264	82417	179197	781309	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[a]pyrene	PRY	Ave	8623 1422464	24694 2970289	65363	145721	659345	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Indeno[1,2,3-cd]pyrene	CRY	Ave	11045 1489298	24293 3078217	68255	146771	611697	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Dibenz(a,h)anthracene	PRY	Ave	9039 1186884	20147 2481567	55353	118447	491955	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[g,h,i]perylene	PRY	Ave	9926 1292543	23779 2644730	65543	134420	539611	0.100 10.0	0.200 20.0	0.500	1.00	5.00
o-Terphenyl	CRY	QuaF	12248 951092	23667 1947090	59195	126314	536872	0.100 10.0	0.200 20.0	0.500	1.00	5.00

Curve Type Legend:
Ave = Average ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1702.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 18-Nov-2014 11:20:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: ICIS
Misc. Info.: 680-0014871-002
Operator ID: Instrument ID: CMSY
Sublist: chrom-8270D_LLPAH_MSY*sub5

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 18-Nov-2014 15:34:46 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: webbk Date: 18-Nov-2014 15:34:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.264	4.264	0.000	99	394405	2.00	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	93	207557	2.00	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	342806	2.00	2.00	
* 4 Chrysene-d12	240	10.655	10.655	0.000	99	330944	2.00	2.00	
* 5 Perylene-d12	264	12.265	12.265	0.000	99	264820	2.00	2.00	
$ 6 o-Terphenyl	230	8.211	8.211	0.000	90	536872	5.00	5.24	
7 Naphthalene	128	4.285	4.285	0.000	99	1017919	5.00	4.90	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	84	657565	5.00	4.89	
10 1-Methylnaphthalene	142	5.087	5.087	0.000	93	601640	5.00	4.91	
11 1,1'-Biphenyl	154	5.478	5.478	0.000	99	806133	5.00	4.98	
12 Acenaphthylene	152	5.949	5.949	0.000	97	1002871	5.00	5.21	
14 Acenaphthene	153	6.141	6.141	0.000	95	633867	5.00	4.88	
15 Dibenzofuran	168	6.334	6.334	0.000	99	864015	5.00	4.95	
16 Fluorene	166	6.713	6.713	0.000	95	699509	5.00	5.04	
17 Phenanthrene	178	7.794	7.794	0.000	97	952871	5.00	4.94	
18 Anthracene	178	7.853	7.853	0.000	99	948081	5.00	5.04	
19 Fluoranthene	202	9.126	9.126	0.000	98	984026	5.00	5.01	
20 Pyrene	202	9.372	9.372	0.000	98	1018055	5.00	5.04	
21 Benzo[a]anthracene	228	10.645	10.645	0.000	98	901168	5.00	4.88	
22 Chrysene	228	10.682	10.682	0.000	99	849771	5.00	5.22	
23 Benzo[b]fluoranthene	252	11.795	11.795	0.000	99	841310	5.00	5.15	
24 Benzo[k]fluoranthene	252	11.827	11.827	0.000	99	781309	5.00	4.80	
25 Benzo[a]pyrene	252	12.196	12.196	0.000	97	659345	5.00	5.08	
26 Indeno[1,2,3-cd]pyrene	276	13.870	13.870	0.000	99	611697	5.00	4.27	
27 Dibenz(a,h)anthracene	278	13.897	13.897	0.000	95	491955	5.00	4.49	
28 Benzo[g,h,i]perylene	276	14.357	14.357	0.000	98	539611	5.00	4.39	

Reagents:

SMLLPAH5.0LVI_00025 Amount Added: 1.00 Units: mL

Report Date: 18-Nov-2014 15:34:46 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1702.D

Injection Date: 18-Nov-2014 11:20:30 Instrument ID: CMSY Operator ID:

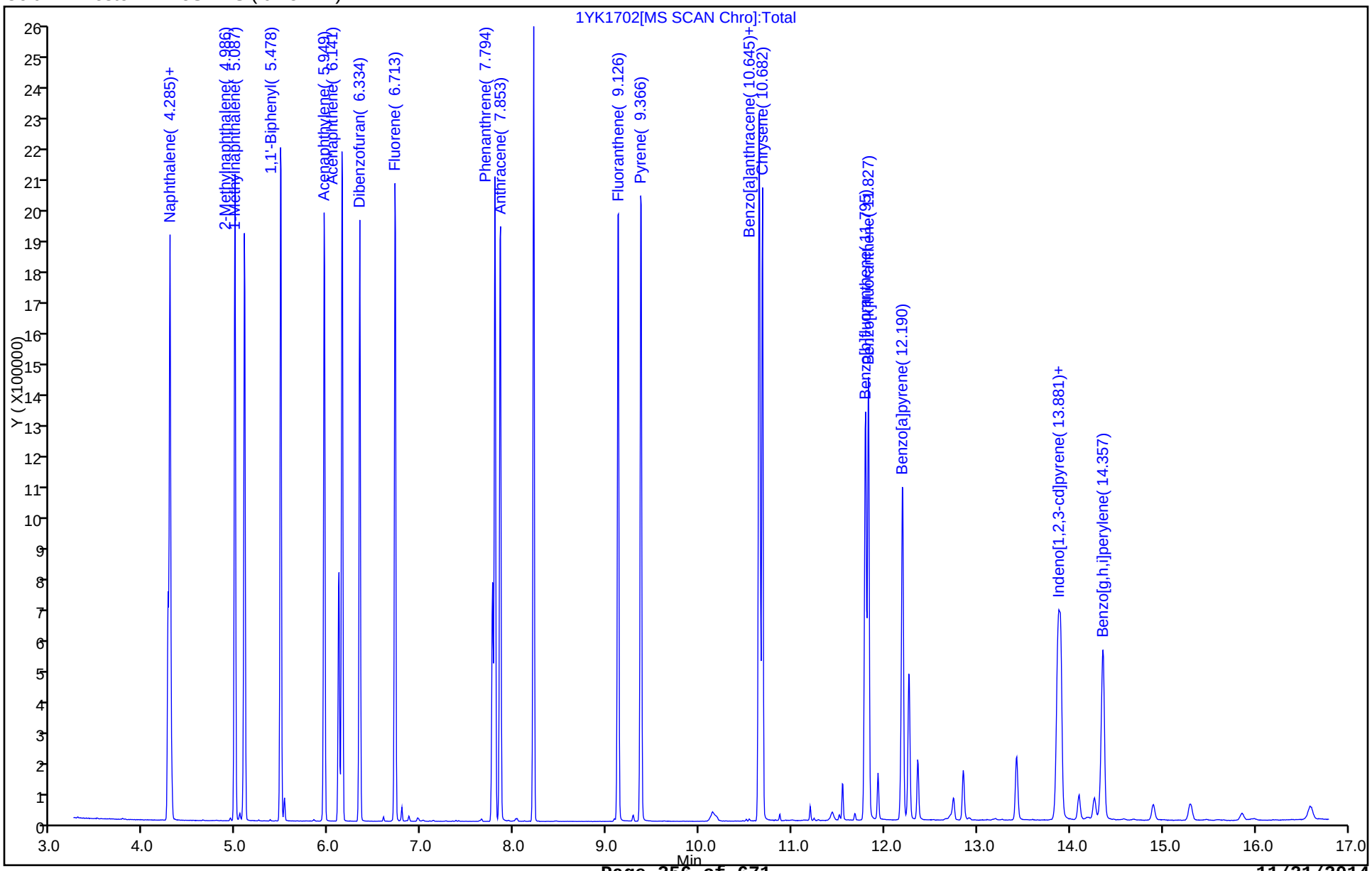
Lims ID: ICIS Worklist Smp#: 2

Client ID:

Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8270D_LLPAH_MSY Limit Group: 8270D_LL_PAH

Column: Restek RXi-5Sil MS (0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1703.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 18-Nov-2014 11:42:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014871-003
Operator ID: Instrument ID: CMSY
Sublist: chrom-8270D_LLPAH_MSY*sub5

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 18-Nov-2014 15:34:27 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: webbk Date: 18-Nov-2014 13:15:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.264	4.264	0.000	99	424994	2.00	2.00	
* 2 Acenaphthene-d10	164	6.104	6.109	-0.005	93	220501	2.00	2.00	
* 3 Phenanthrene-d10	188	7.762	7.767	-0.005	98	366008	2.00	2.00	
* 4 Chrysene-d12	240	10.650	10.661	-0.011	99	260327	2.00	2.00	
* 5 Perylene-d12	264	12.260	12.265	-0.005	99	191663	2.00	2.00	
$ 6 o-Terphenyl	230	8.211	8.211	0.000	91	12248	0.1000	0.1480	
7 Naphthalene	128	4.285	4.285	0.000	99	23502	0.1000	0.1051	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	85	14289	0.1000	0.0987	
10 1-Methylnaphthalene	142	5.088	5.093	-0.005	93	13448	0.1000	0.1019	
11 1,1'-Biphenyl	154	5.478	5.483	-0.005	99	17607	0.1000	0.1023	
12 Acenaphthylene	152	5.949	5.954	-0.005	98	19047	0.1000	0.0931	
14 Acenaphthene	153	6.141	6.147	-0.006	94	14549	0.1000	0.1054	
15 Dibenzofuran	168	6.334	6.334	0.000	100	19441	0.1000	0.1048	
16 Fluorene	166	6.714	6.719	-0.005	93	14357	0.1000	0.0974	
17 Phenanthrene	178	7.789	7.794	-0.005	95	22277	0.1000	0.1042	
18 Anthracene	178	7.847	7.853	-0.006	99	18401	0.1000	0.0916	
19 Fluoranthene	202	9.120	9.126	-0.006	98	19254	0.1000	0.0918	
20 Pyrene	202	9.366	9.372	-0.006	97	20038	0.1000	0.1236	
21 Benzo[a]anthracene	228	10.639	10.650	-0.011	97	14709	0.1000	0.1013	
22 Chrysene	228	10.677	10.688	-0.011	98	15762	0.1000	0.1221	
23 Benzo[b]fluoranthene	252	11.784	11.800	-0.016	97	11268	0.1000	0.0954	
24 Benzo[k]fluoranthene	252	11.816	11.832	-0.016	98	11863	0.1000	0.0934	
25 Benzo[a]pyrene	252	12.185	12.201	-0.016	96	8623	0.1000	0.0919	
26 Indeno[1,2,3-cd]pyrene	276	13.859	13.886	-0.027	98	11045	0.1000	0.0980	
27 Dibenz(a,h)anthracene	278	13.886	13.918	-0.032	89	9039	0.1000	0.1139	
28 Benzo[g,h,i]perylene	276	14.341	14.378	-0.037	96	9926	0.1000	0.1115	

Reagents:

SMLLPAH0.1LVI_00022 Amount Added: 1.00 Units: mL

Report Date: 18-Nov-2014 15:34:27 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1703.D

Injection Date: 18-Nov-2014 11:42:30 Instrument ID: CMSY Operator ID:

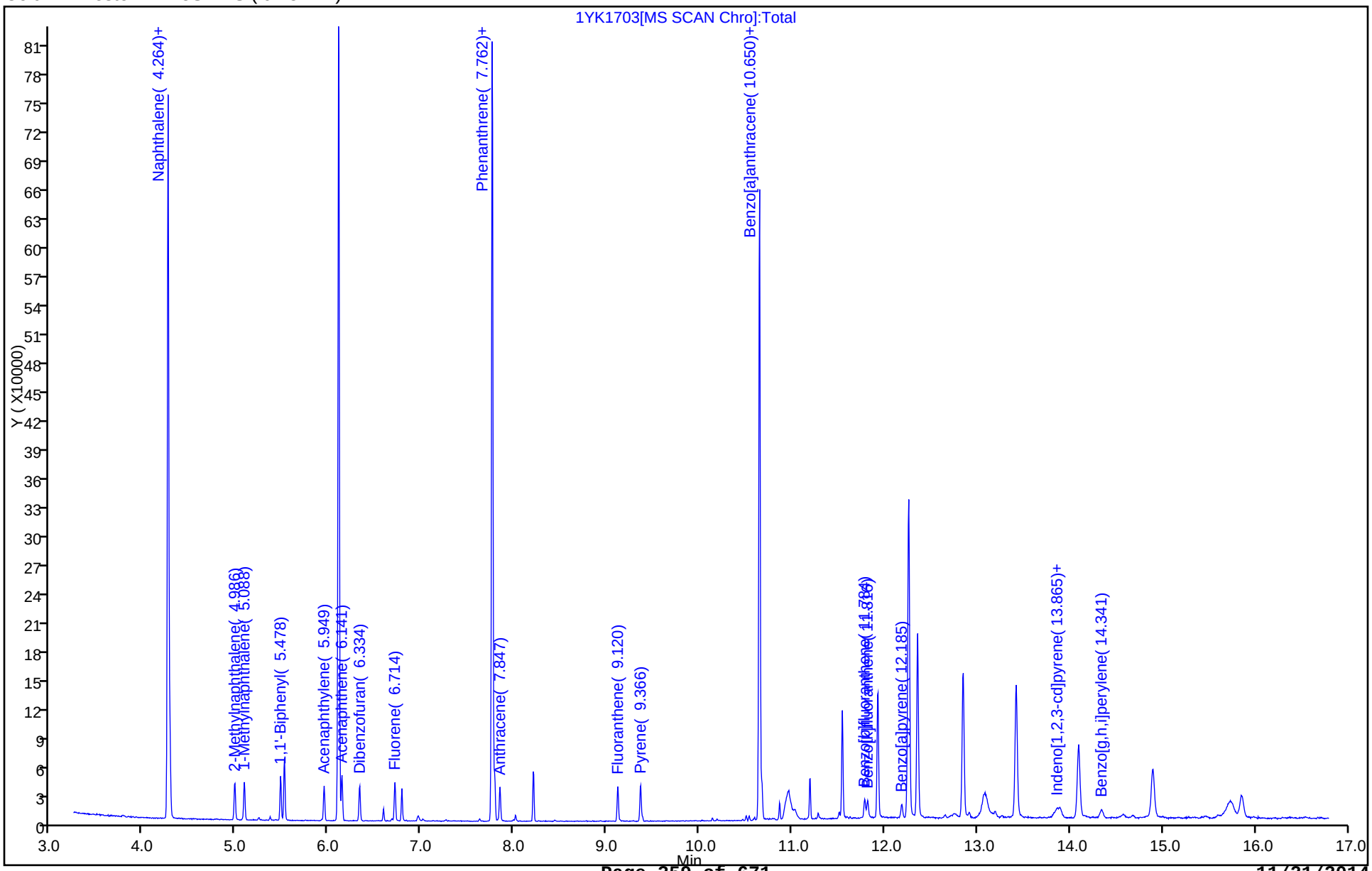
Lims ID: IC Worklist Smp#: 3

Client ID:

Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8270D_LLPAH_MSY Limit Group: 8270D_LL_PAH

Column: Restek RXi-5Sil MS (0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1704.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 18-Nov-2014 12:04:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014871-004
Operator ID: Instrument ID: CMSY
Sublist: chrom-8270D_LLPAH_MSY*sub5

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 18-Nov-2014 15:34:26 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: webbk Date: 18-Nov-2014 13:26:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.264	4.264	0.000	99	387533	2.00	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	92	205786	2.00	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	340981	2.00	2.00	
* 4 Chrysene-d12	240	10.666	10.661	0.005	99	340324	2.00	2.00	
* 5 Perylene-d12	264	12.271	12.265	0.006	98	311724	2.00	2.00	
$ 6 o-Terphenyl	230	8.217	8.211	0.006	90	1947090	20.0	20.1	
7 Naphthalene	128	4.291	4.285	0.006	99	3488711	20.0	17.1	
9 2-Methylnaphthalene	142	4.991	4.986	0.005	83	2289758	20.0	17.3	
10 1-Methylnaphthalene	142	5.093	5.093	0.000	92	2080460	20.0	17.3	
11 1,1'-Biphenyl	154	5.483	5.483	0.000	100	2822346	20.0	17.6	
12 Acenaphthylene	152	5.954	5.954	0.000	97	3537562	20.0	18.5	
14 Acenaphthene	153	6.152	6.147	0.005	94	2234733	20.0	17.4	
15 Dibenzofuran	168	6.339	6.334	0.005	99	3053447	20.0	17.6	
16 Fluorene	166	6.724	6.719	0.005	96	2494511	20.0	18.1	
17 Phenanthrene	178	7.805	7.794	0.011	98	3398316	20.0	20.0	
18 Anthracene	178	7.864	7.853	0.011	99	3476058	20.0	18.6	
19 Fluoranthene	202	9.131	9.126	0.005	98	3752812	20.0	19.2	
20 Pyrene	202	9.377	9.372	0.005	98	3911245	20.0	20.0	
21 Benzo[a]anthracene	228	10.650	10.650	0.000	98	3764015	20.0	19.8	
22 Chrysene	228	10.693	10.688	0.005	99	3269690	20.0	20.0	
23 Benzo[b]fluoranthene	252	11.806	11.800	0.006	98	3981606	20.0	20.7	
24 Benzo[k]fluoranthene	252	11.843	11.832	0.011	99	2850264	20.0	19.9	
25 Benzo[a]pyrene	252	12.212	12.201	0.011	98	2970289	20.0	19.5	
26 Indeno[1,2,3-cd]pyrene	276	13.902	13.886	0.016	99	3078217	20.0	20.9	
27 Dibenz(a,h)anthracene	278	13.929	13.918	0.011	95	2481567	20.0	19.2	
28 Benzo[g,h,i]perylene	276	14.389	14.378	0.011	98	2644730	20.0	18.3	

Reagents:

SMLLPAH20LVI_00025 Amount Added: 1.00 Units: mL

Report Date: 18-Nov-2014 15:34:27 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1704.D

Injection Date: 18-Nov-2014 12:04:30 Instrument ID: CMSY Operator ID:

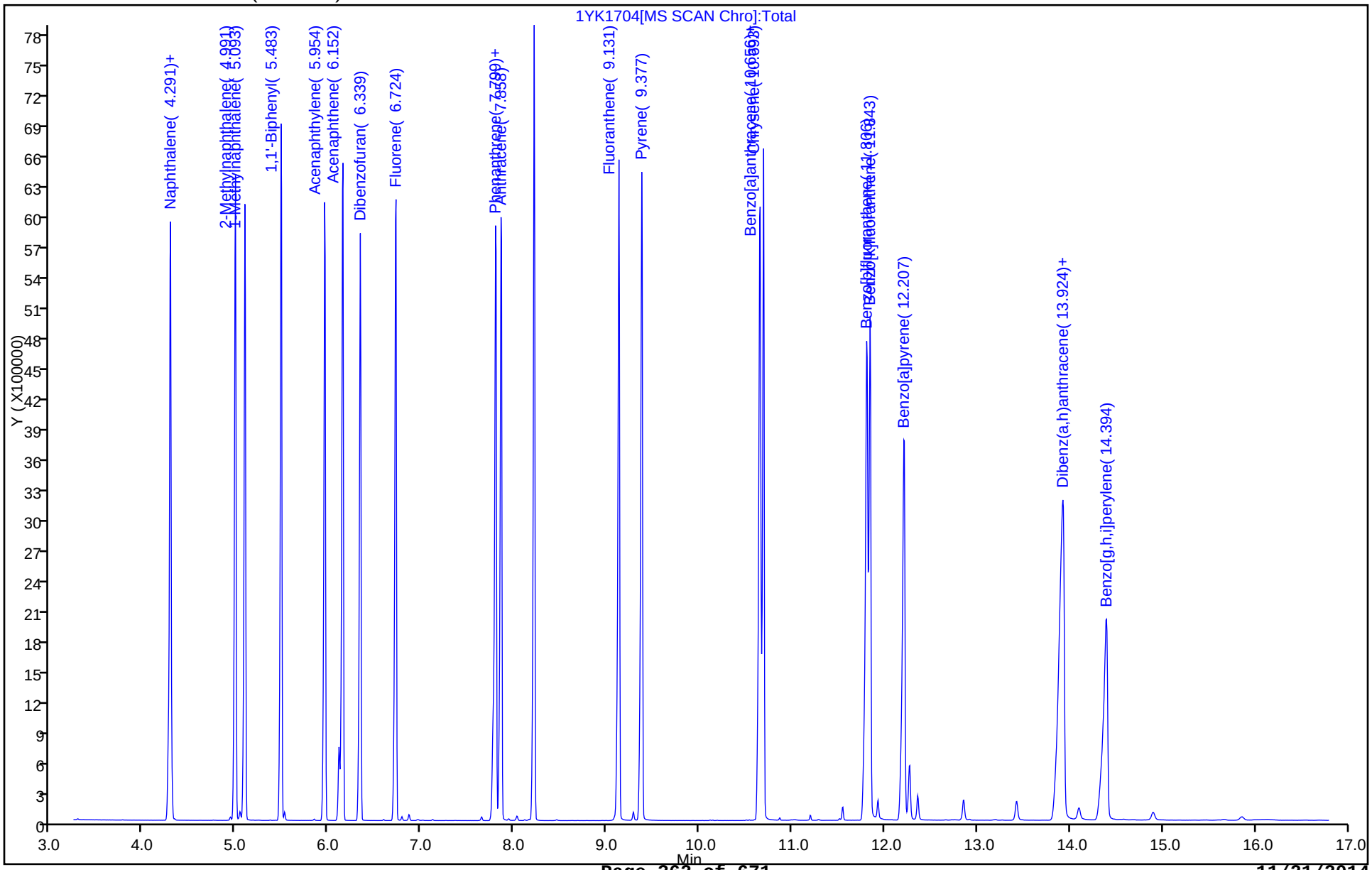
Lims ID: IC Worklist Smp#: 4

Client ID:

Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8270D_LLPAH_MSY Limit Group: 8270D_LL_PAH

Column: Restek RXi-5Sil MS (0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1705.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 18-Nov-2014 12:26:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014871-005
Operator ID: Instrument ID: CMSY
Sublist: chrom-8270D_LLPAH_MSY*sub5

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 18-Nov-2014 15:34:26 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: webbk Date: 18-Nov-2014 13:26:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.264	4.264	0.000	99	367959	2.00	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	93	200315	2.00	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	322636	2.00	2.00	
* 4 Chrysene-d12	240	10.661	10.661	0.000	99	323347	2.00	2.00	
* 5 Perylene-d12	264	12.265	12.265	0.000	99	290887	2.00	2.00	
$ 6 o-Terphenyl	230	8.211	8.211	0.000	90	951092	10.0	9.73	
7 Naphthalene	128	4.285	4.285	0.000	99	1837796	10.0	9.49	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	84	1183230	10.0	9.44	
10 1-Methylnaphthalene	142	5.093	5.093	0.000	92	1067482	10.0	9.34	
11 1,1'-Biphenyl	154	5.483	5.483	0.000	100	1470733	10.0	9.41	
12 Acenaphthylene	152	5.954	5.954	0.000	97	1815724	10.0	9.77	
14 Acenaphthene	153	6.147	6.147	0.000	95	1138110	10.0	9.08	
15 Dibenzofuran	168	6.334	6.334	0.000	100	1562815	10.0	9.28	
16 Fluorene	166	6.719	6.719	0.000	96	1282190	10.0	9.57	
17 Phenanthrene	178	7.794	7.794	0.000	97	1750360	10.0	10.0	
18 Anthracene	178	7.853	7.853	0.000	99	1751076	10.0	9.89	
19 Fluoranthene	202	9.126	9.126	0.000	98	1837813	10.0	9.94	
20 Pyrene	202	9.372	9.372	0.000	98	1919834	10.0	9.91	
21 Benzo[a]anthracene	228	10.650	10.650	0.000	98	1691426	10.0	9.38	
22 Chrysene	228	10.688	10.688	0.000	99	1540283	10.0	9.77	
23 Benzo[b]fluoranthene	252	11.800	11.800	0.000	98	1685575	10.0	9.40	
24 Benzo[k]fluoranthene	252	11.832	11.832	0.000	99	1656875	10.0	10.2	
25 Benzo[a]pyrene	252	12.201	12.201	0.000	97	1422464	10.0	9.99	
26 Indeno[1,2,3-cd]pyrene	276	13.886	13.886	0.000	99	1489298	10.0	10.6	
27 Dibenz(a,h)anthracene	278	13.918	13.918	0.000	97	1186884	10.0	9.86	
28 Benzo[g,h,i]perylene	276	14.378	14.378	0.000	98	1292543	10.0	9.57	

Reagents:

SMLLPAH10LVI_00022 Amount Added: 1.00 Units: mL

Report Date: 18-Nov-2014 15:34:26 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1705.D

Injection Date: 18-Nov-2014 12:26:30 Instrument ID: CMSY Operator ID:

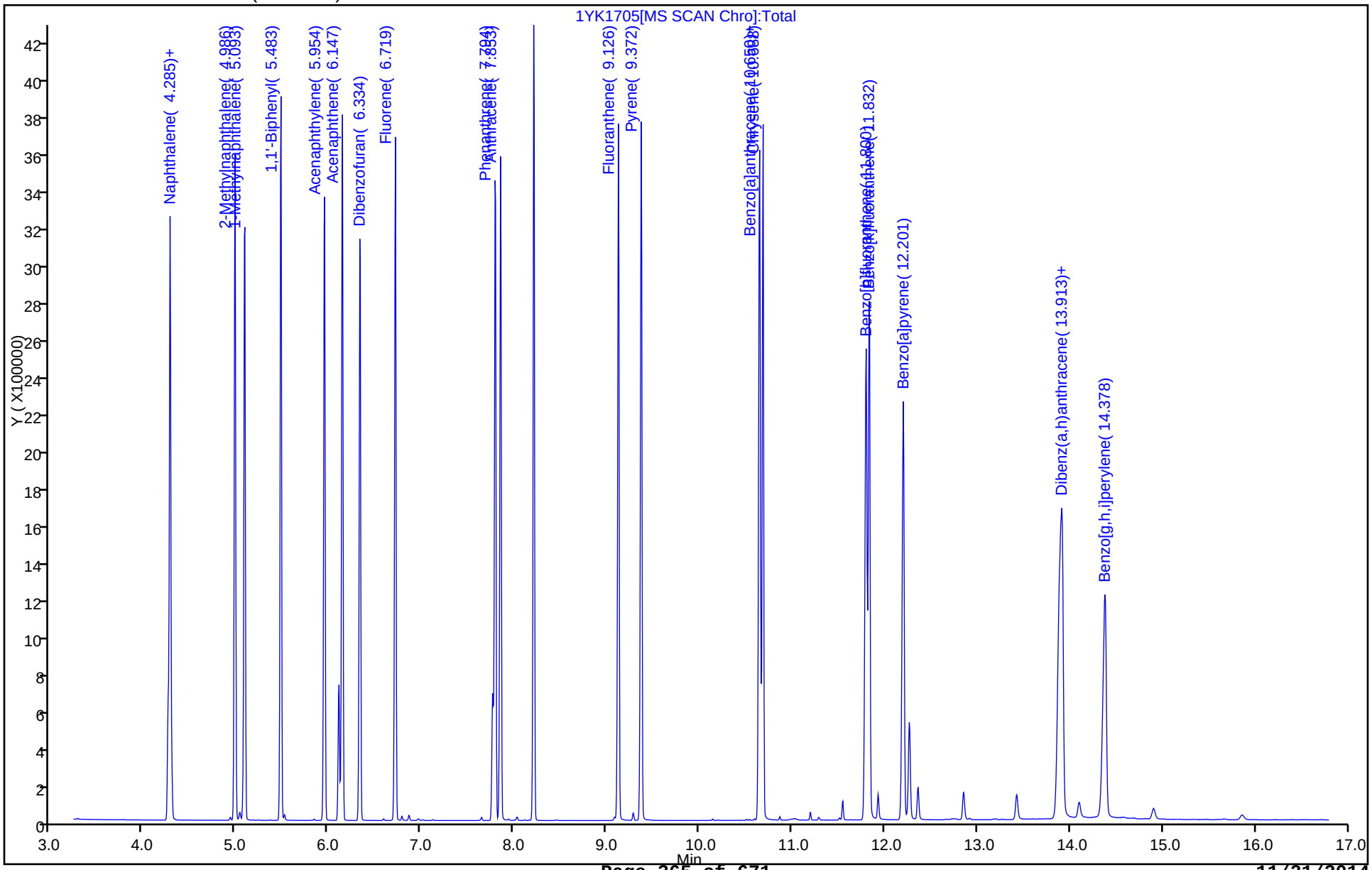
Lims ID: IC Worklist Smp#: 5

Client ID:

Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8270D_LLPAH_MSY Limit Group: 8270D_LL_PAH

Column: Restek RXi-5Sil MS (0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1706.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 18-Nov-2014 12:48:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014871-006
Operator ID: Instrument ID: CMSY
Sublist: chrom-8270D_LLPAH_MSY*sub5

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 18-Nov-2014 15:34:25 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: webbk Date: 18-Nov-2014 14:18:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.264	4.264	0.000	99	391777	2.00	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	93	217794	2.00	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	352006	2.00	2.00	
* 4 Chrysene-d12	240	10.655	10.655	0.000	99	306501	2.00	2.00	
* 5 Perylene-d12	264	12.265	12.265	0.000	99	274721	2.00	2.00	
$ 6 o-Terphenyl	230	8.211	8.211	0.000	90	126314	1.00	1.30	
7 Naphthalene	128	4.285	4.285	0.000	99	226101	1.00	1.10	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	84	146823	1.00	1.10	
10 1-Methylnaphthalene	142	5.087	5.087	0.000	92	135114	1.00	1.11	
11 1,1'-Biphenyl	154	5.478	5.478	0.000	99	181121	1.00	1.07	
12 Acenaphthylene	152	5.948	5.949	-0.001	98	219884	1.00	1.09	
14 Acenaphthene	153	6.141	6.141	0.000	94	148635	1.00	1.09	
15 Dibenzofuran	168	6.334	6.334	0.000	99	197453	1.00	1.08	
16 Fluorene	166	6.713	6.713	0.000	95	158404	1.00	1.09	
17 Phenanthrene	178	7.794	7.794	0.000	97	227076	1.00	1.11	
18 Anthracene	178	7.847	7.853	-0.006	99	216711	1.00	1.12	
19 Fluoranthene	202	9.120	9.126	-0.006	98	221712	1.00	1.10	
20 Pyrene	202	9.366	9.372	-0.006	98	234467	1.00	1.23	
21 Benzo[a]anthracene	228	10.645	10.645	0.000	98	179948	1.00	1.05	
22 Chrysene	228	10.677	10.682	-0.005	98	193333	1.00	1.27	
23 Benzo[b]fluoranthene	252	11.789	11.795	-0.006	98	173285	1.00	1.02	
24 Benzo[k]fluoranthene	252	11.821	11.827	-0.006	99	179197	1.00	1.00	
25 Benzo[a]pyrene	252	12.190	12.196	-0.006	97	145721	1.00	1.08	
26 Indeno[1,2,3-cd]pyrene	276	13.870	13.870	0.000	99	146771	1.00	1.11	
27 Dibenz(a,h)anthracene	278	13.897	13.897	0.000	94	118447	1.00	1.04	
28 Benzo[g,h,i]perylene	276	14.351	14.357	-0.006	98	134420	1.00	1.05	

Reagents:

SMLLPAH1.0LVI_00020 Amount Added: 1.00 Units: mL

Report Date: 18-Nov-2014 15:34:25 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1706.D

Injection Date: 18-Nov-2014 12:48:30 Instrument ID: CMSY Operator ID:

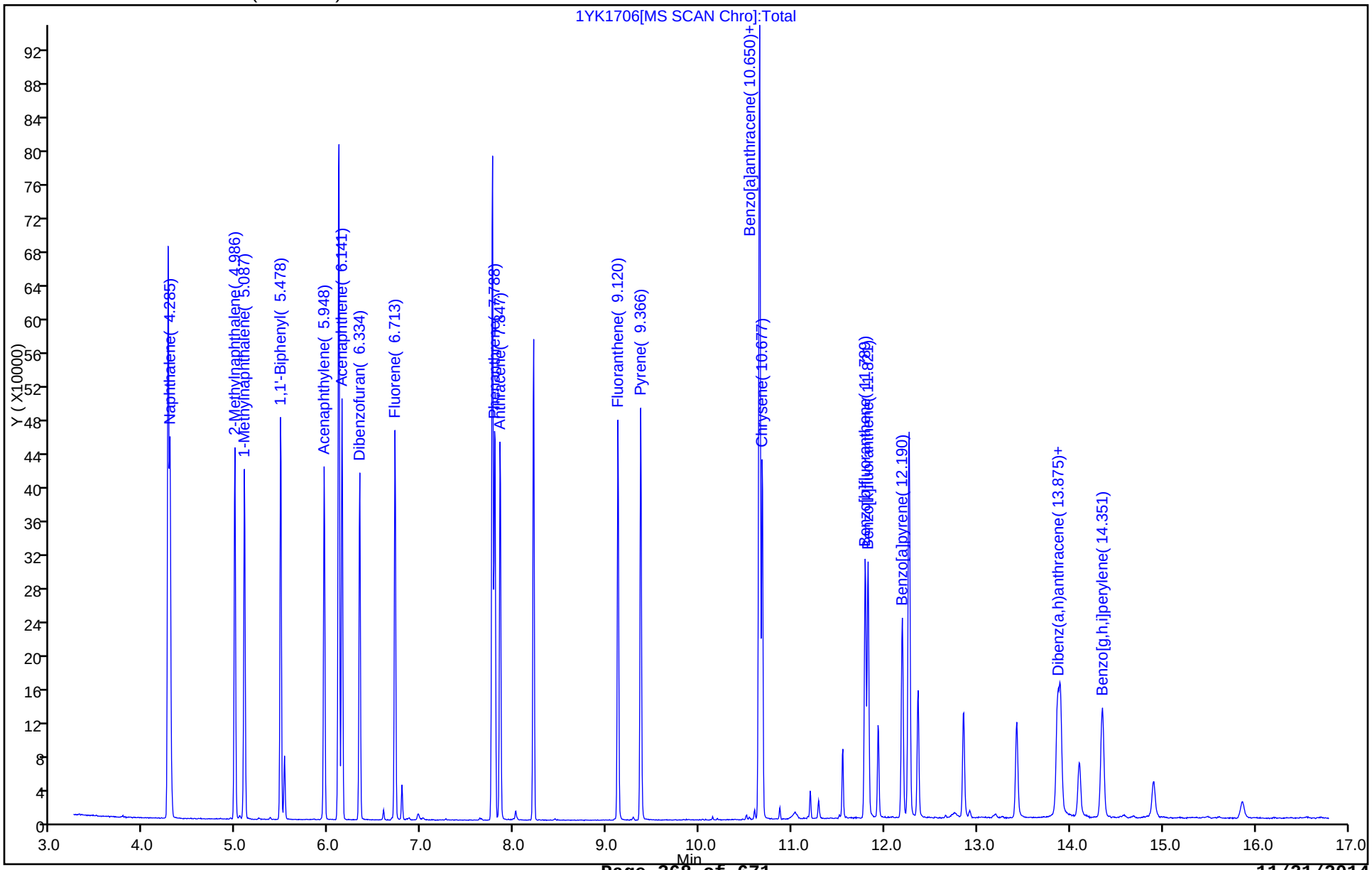
Lims ID: IC Worklist Smp#: 6

Client ID:

Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8270D_LLPAH_MSY Limit Group: 8270D_LL_PAH

Column: Restek RXi-5Sil MS (0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1707.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Nov-2014 13:10:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014871-007
Operator ID: Instrument ID: CMSY
Sublist: chrom-8270D_LLPAH_MSY*sub5

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 18-Nov-2014 15:34:24 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: webbk Date: 18-Nov-2014 14:18:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.264	4.264	0.000	99	388310	2.00	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	93	211899	2.00	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	352841	2.00	2.00	
* 4 Chrysene-d12	240	10.655	10.655	0.000	99	313699	2.00	2.00	
* 5 Perylene-d12	264	12.265	12.265	0.000	99	267080	2.00	2.00	
$ 6 o-Terphenyl	230	8.211	8.211	0.000	90	59195	0.5000	0.5949	
7 Naphthalene	128	4.285	4.285	0.000	98	105094	0.5000	0.5143	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	85	69973	0.5000	0.5290	
10 1-Methylnaphthalene	142	5.088	5.087	0.001	92	63122	0.5000	0.5234	
11 1,1'-Biphenyl	154	5.483	5.478	0.005	100	86741	0.5000	0.5244	
12 Acenaphthylene	152	5.949	5.949	0.000	97	99223	0.5000	0.5048	
14 Acenaphthene	153	6.141	6.141	0.000	95	68764	0.5000	0.5186	
15 Dibenzofuran	168	6.334	6.334	0.000	99	92123	0.5000	0.5169	
16 Fluorene	166	6.714	6.713	0.001	95	73762	0.5000	0.5205	
17 Phenanthrene	178	7.794	7.794	0.000	96	107787	0.5000	0.5248	
18 Anthracene	178	7.853	7.853	0.000	99	98686	0.5000	0.5096	
19 Fluoranthene	202	9.120	9.126	-0.006	98	105813	0.5000	0.5235	
20 Pyrene	202	9.366	9.372	-0.006	98	112692	0.5000	0.5777	
21 Benzo[a]anthracene	228	10.645	10.645	0.000	98	88681	0.5000	0.5069	
22 Chrysene	228	10.682	10.682	0.000	98	89000	0.5000	0.5728	
23 Benzo[b]fluoranthene	252	11.789	11.795	-0.006	98	81005	0.5000	0.4920	
24 Benzo[k]fluoranthene	252	11.821	11.827	-0.006	99	82417	0.5000	0.4682	
25 Benzo[a]pyrene	252	12.191	12.196	-0.005	97	65363	0.5000	0.4998	
26 Indeno[1,2,3-cd]pyrene	276	13.870	13.870	0.000	99	68255	0.5000	0.5027	
27 Dibenz(a,h)anthracene	278	13.897	13.897	0.000	95	55353	0.5000	0.5006	
28 Benzo[g,h,i]perylene	276	14.351	14.357	-0.006	98	65543	0.5000	0.5286	

Reagents:

SMLLPAH0.5LVI_00022 Amount Added: 1.00 Units: mL

Report Date: 18-Nov-2014 15:34:24 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1707.D

Injection Date: 18-Nov-2014 13:10:30 Instrument ID: CMSY Operator ID:

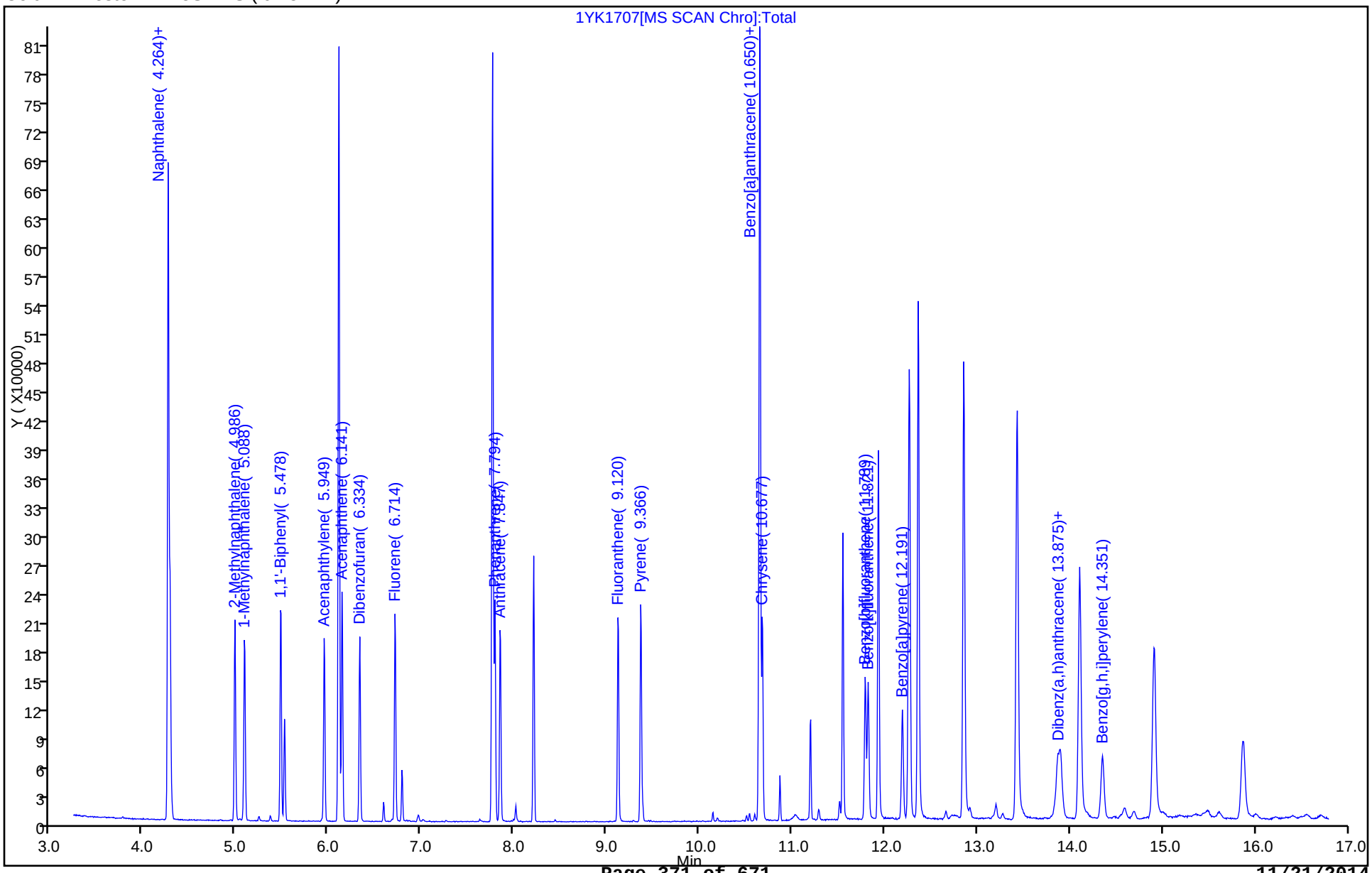
Lims ID: IC Worklist Smp#: 7

Client ID:

Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8270D_LLPAH_MSY Limit Group: 8270D_LL_PAH

Column: Restek RXi-5Sil MS (0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 18-Nov-2014 13:33:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014871-008
Operator ID: Instrument ID: CMSY
Sublist: chrom-8270D_LLPAH_MSY*sub5

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 18-Nov-2014 15:34:23 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: webbk Date: 18-Nov-2014 14:19:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.264	4.264	0.000	99	402667	2.00	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	94	216098	2.00	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	356945	2.00	2.00	
* 4 Chrysene-d12	240	10.650	10.655	-0.005	99	296871	2.00	2.00	
* 5 Perylene-d12	264	12.265	12.265	0.000	98	249782	2.00	2.00	
$ 6 o-Terphenyl	230	8.211	8.211	0.000	90	23667	0.2000	0.2509	
7 Naphthalene	128	4.285	4.285	0.000	98	44020	0.2000	0.2077	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	86	29215	0.2000	0.2130	
10 1-Methylnaphthalene	142	5.088	5.087	0.001	93	26100	0.2000	0.2087	
11 1,1'-Biphenyl	154	5.478	5.478	0.000	99	35371	0.2000	0.2097	
12 Acenaphthylene	152	5.949	5.949	0.000	98	41082	0.2000	0.2050	
14 Acenaphthene	153	6.141	6.141	0.000	94	28843	0.2000	0.2133	
15 Dibenzofuran	168	6.334	6.334	0.000	99	37814	0.2000	0.2081	
16 Fluorene	166	6.714	6.713	0.001	95	29672	0.2000	0.2053	
17 Phenanthrene	178	7.789	7.794	-0.005	97	44218	0.2000	0.2123	
18 Anthracene	178	7.847	7.853	-0.006	99	39848	0.2000	0.2034	
19 Fluoranthene	202	9.120	9.126	-0.006	98	39979	0.2000	0.1955	
20 Pyrene	202	9.366	9.372	-0.006	98	43121	0.2000	0.2333	
21 Benzo[a]anthracene	228	10.639	10.645	-0.006	98	33604	0.2000	0.2030	
22 Chrysene	228	10.677	10.682	-0.005	98	35322	0.2000	0.2401	
23 Benzo[b]fluoranthene	252	11.789	11.795	-0.006	98	31800	0.2000	0.2065	
24 Benzo[k]fluoranthene	252	11.816	11.827	-0.011	98	30457	0.2000	0.1842	
25 Benzo[a]pyrene	252	12.191	12.196	-0.005	97	24694	0.2000	0.2019	
26 Indeno[1,2,3-cd]pyrene	276	13.870	13.870	0.000	98	24293	0.2000	0.1890	
27 Dibenz(a,h)anthracene	278	13.897	13.897	0.000	94	20147	0.2000	0.1948	
28 Benzo[g,h,i]perylene	276	14.351	14.357	-0.006	97	23779	0.2000	0.2050	

Reagents:

SMLLPAH0.2LVI_00021 Amount Added: 1.00 Units: mL

Report Date: 18-Nov-2014 15:34:23 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Injection Date: 18-Nov-2014 13:33:30 Instrument ID: CMSY Operator ID:

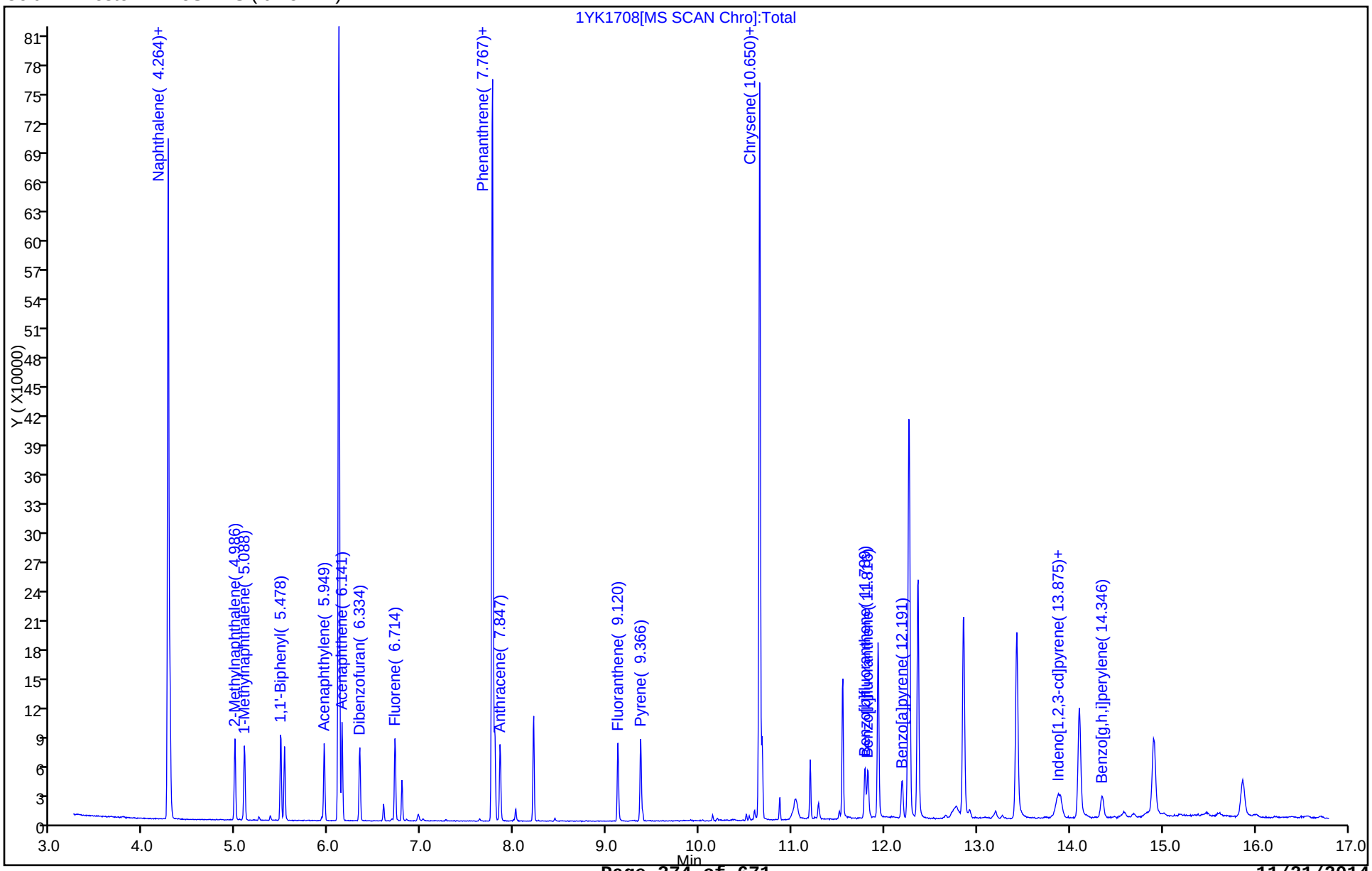
Lims ID: IC Worklist Smp#: 8

Client ID:

Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 8

Method: 8270D_LLPAH_MSY Limit Group: 8270D_LL_PAH

Column: Restek RXi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Lab Sample ID: ICV 680-359503/9 Calibration Date: 11/19/2014 15:07

Instrument ID: CMSK Calib Start Date: 11/19/2014 12:29

GC Column: RXi- 5Sil MS ID: 0.25(mm) Calib End Date: 11/19/2014 14:45

Lab File ID: 2KK1909.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.121	1.129	0.7000	5.03	5.00	0.7	30.0
2-Methylnaphthalene	Ave	0.6829	0.6907	0.4000	5.06	5.00	1.1	30.0
1-Methylnaphthalene	Ave	0.6216	0.6501		5.23	5.00	4.6	30.0
1,1'-Biphenyl	Ave	1.600	1.559		4.87	5.00	-2.6	30.0
Acenaphthylene	QuaF		2.054	0.9000	4.81	5.00	-3.8	30.0
Acenaphthene	Ave	1.257	1.347	0.9000	5.36	5.00	7.2	30.0
Dibenzofuran	QuaF		1.696		4.54	5.00	-9.3	30.0
Fluorene	QuaF		1.446	0.9000	4.87	5.00	-2.6	30.0
Phenanthrene	Ave	1.209	1.290	0.7000	5.34	5.00	6.7	30.0
Anthracene	QuaF		1.323	0.7000	5.24	5.00	4.7	30.0
Fluoranthene	QuaF		1.326	0.6000	5.06	5.00	1.2	30.0
Pyrene	Ave	1.399	1.473	0.6000	5.26	5.00	5.3	30.0
Benzo[a]anthracene	Ave	1.117	1.196	0.7000	5.36	5.00	7.1	30.0
Chrysene	Ave	1.050	1.172	0.7000	5.59	5.00	11.7	30.0
Benzo[b]fluoranthene	QuaF		1.524	0.4000	5.67	5.00	13.4	30.0
Benzo[k]fluoranthene	Ave	1.327	1.403	0.4000	5.29	5.00	5.7	30.0
Benzo[a]pyrene	QuaF		1.224	0.4000	5.43	5.00	8.7	30.0
Indeno[1,2,3-cd]pyrene	QuaF		0.7091	0.2000	4.90	5.00	-2.0	30.0
Dibenz(a,h)anthracene	QuaF		0.8197	0.2000	5.27	5.00	5.4	30.0
Benzo[g,h,i]perylene	Ave	0.8402	0.9140	0.2000	5.44	5.00	8.8	30.0
o-Terphenyl	Ave	0.7442	0.9000		6.05	5.00	20.9	30.0

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1909.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 19-Nov-2014 15:07:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 680-0014922-009
Operator ID: RM Instrument ID: CMSK
Sublist:

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:08:41 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 19-Nov-2014 16:07:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.114	3.114	0.000	99	679367	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	92	348565	2.00	2.00	
* 3 Phenanthrene-d10	188	6.363	6.363	0.000	98	536799	2.00	2.00	
* 4 Chrysene-d12	240	9.195	9.196	-0.001	99	492124	2.00	2.00	
* 5 Perylene-d12	264	10.517	10.518	-0.001	98	336254	2.00	2.00	
$ 6 o-Terphenyl	230	6.833	6.839	-0.006	89	1107253	5.00	6.05	
7 Naphthalene	128	3.132	3.138	-0.006	99	1917169	5.00	5.03	
9 2-Methylnaphthalene	142	3.772	3.778	-0.006	85	1173027	5.00	5.06	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	93	1104104	5.00	5.23	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	99	1358181	5.00	4.87	
11 Acenaphthylene	152	4.654	4.654	0.000	97	1789495	5.00	4.81	
12 Acenaphthene	153	4.842	4.842	0.000	95	1173905	5.00	5.36	
13 Dibenzofuran	168	5.024	5.024	0.000	99	1478241	5.00	4.54	
14 Fluorene	166	5.382	5.382	0.000	95	1260248	5.00	4.87	
15 Phenanthrene	178	6.393	6.393	0.000	97	1731343	5.00	5.34	
16 Anthracene	178	6.446	6.446	0.000	99	1775155	5.00	5.24	
17 Fluoranthene	202	7.674	7.674	0.000	98	1779123	5.00	5.06	
18 Pyrene	202	7.909	7.909	0.000	97	1812573	5.00	5.26	
19 Benzo[a]anthracene	228	9.184	9.190	-0.006	99	1471778	5.00	5.36	
20 Chrysene	228	9.219	9.225	-0.006	98	1442450	5.00	5.59	
21 Benzo[b]fluoranthene	252	10.200	10.200	0.000	99	1281021	5.00	5.67	
22 Benzo[k]fluoranthene	252	10.224	10.224	0.000	99	1179359	5.00	5.29	
23 Benzo[a]pyrene	252	10.470	10.471	0.000	97	1029168	5.00	5.43	
24 Indeno[1,2,3-cd]pyrene	276	11.393	11.399	-0.006	99	872434	5.00	4.90	
25 Dibenz(a,h)anthracene	278	11.416	11.422	-0.006	98	689102	5.00	5.27	
26 Benzo[g,h,i]perylene	276	11.628	11.634	-0.006	98	768374	5.00	5.44	

Reagents:

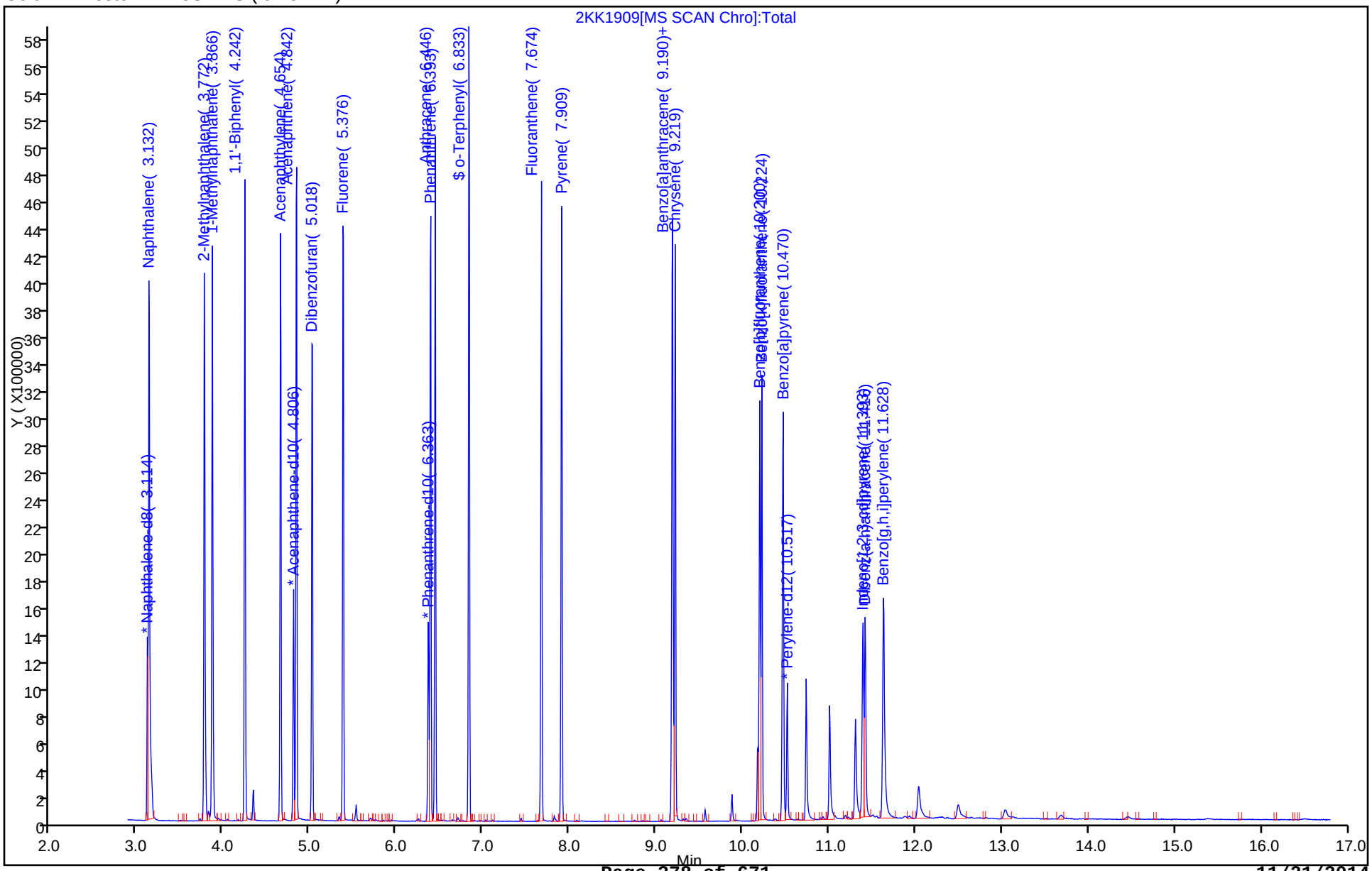
SMLLPAHICVLVI_00032 Amount Added: 1.00 Units: mL

Report Date: 20-Nov-2014 10:09:29 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1909.D				
Injection Date:	19-Nov-2014 15:07:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	ICV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Lab Sample ID: ICV 680-359245/9 Calibration Date: 11/18/2014 13:56

Instrument ID: CMSY Calib Start Date: 11/18/2014 11:20

GC Column: RXi- 5Sil MS ID: 0.25(mm) Calib End Date: 11/18/2014 13:33

Lab File ID: 1YK1709.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.053	1.039	0.7000	4.94	5.00	-1.3	30.0
2-Methylnaphthalene	Ave	0.6813	0.6896	0.4000	5.06	5.00	1.2	30.0
1-Methylnaphthalene	Ave	0.6212	0.6444		5.19	5.00	3.7	30.0
1,1'-Biphenyl	Ave	1.561	1.423		4.56	5.00	-8.8	30.0
Acenaphthylene	Ave	1.855	1.902	0.9000	5.13	5.00	2.5	30.0
Acenaphthene	Ave	1.252	1.234	0.9000	4.93	5.00	-1.4	30.0
Dibenzofuran	Ave	1.682	1.568		4.66	5.00	-6.8	30.0
Fluorene	Ave	1.338	1.384	0.9000	5.17	5.00	3.5	30.0
Phenanthrene	QuaF		1.122	0.7000	4.98	5.00	-0.3	30.0
Anthracene	Ave	1.098	1.161	0.7000	5.29	5.00	5.8	30.0
Fluoranthene	Ave	1.146	1.233	0.6000	5.38	5.00	7.6	30.0
Pyrene	QuaF		1.368	0.6000	5.61	5.00	12.2	30.0
Benzo[a]anthracene	Ave	1.115	1.148	0.7000	5.15	5.00	3.0	30.0
Chrysene	QuaF		1.194	0.7000	6.08	5.00	21.7	30.0
Benzo[b]fluoranthene	Ave	1.233	1.338	0.4000	5.43	5.00	8.5	30.0
Benzo[k]fluoranthene	QuaF		1.230	0.4000	5.03	5.00	0.5	30.0
Benzo[a]pyrene	Ave	0.9793	1.044	0.4000	5.33	5.00	6.6	30.0
Indeno[1,2,3-cd]pyrene	Ave	0.8657	0.8396	0.2000	4.85	5.00	-3.0	30.0
Dibenz(a,h)anthracene	Ave	0.8280	0.8146	0.2000	4.92	5.00	-1.6	30.0
Benzo[g,h,i]perylene	Ave	0.9286	0.9141	0.2000	4.92	5.00	-1.6	30.0
o-Terphenyl	QuaF		0.7453		6.04	5.00	20.9	30.0

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1709.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 18-Nov-2014 13:56:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 680-0014871-009
Operator ID: Instrument ID: CMSY
Sublist:

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 18-Nov-2014 15:34:20 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: webbk Date: 18-Nov-2014 14:28:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.264	4.264	0.000	99	422162	2.00	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	93	244045	2.00	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	408397	2.00	2.00	
* 4 Chrysene-d12	240	10.655	10.655	0.000	99	380798	2.00	2.00	
* 5 Perylene-d12	264	12.271	12.265	0.006	98	315696	2.00	2.00	
$ 6 o-Terphenyl	230	8.216	8.211	0.005	89	709513	5.00	6.04	
7 Naphthalene	128	4.285	4.285	0.000	99	1096859	5.00	4.94	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	85	727787	5.00	5.06	
10 1-Methylnaphthalene	142	5.093	5.087	0.006	93	680092	5.00	5.19	
11 1,1'-Biphenyl	154	5.483	5.478	0.005	99	868358	5.00	4.56	
12 Acenaphthylene	152	5.954	5.949	0.005	97	1160223	5.00	5.13	
14 Acenaphthene	153	6.146	6.141	0.005	95	752973	5.00	4.93	
15 Dibenzofuran	168	6.334	6.334	0.000	100	956908	5.00	4.66	
16 Fluorene	166	6.719	6.713	0.006	96	844317	5.00	5.17	
17 Phenanthrene	178	7.794	7.794	0.000	98	1145865	5.00	4.98	
18 Anthracene	178	7.853	7.853	0.000	99	1185341	5.00	5.29	
19 Fluoranthene	202	9.126	9.126	0.000	98	1258396	5.00	5.38	
20 Pyrene	202	9.372	9.372	0.000	98	1302436	5.00	5.61	
21 Benzo[a]anthracene	228	10.650	10.645	0.005	98	1093307	5.00	5.15	
22 Chrysene	228	10.687	10.682	0.005	99	1137075	5.00	6.08	
23 Benzo[b]fluoranthene	252	11.800	11.795	0.005	98	1055866	5.00	5.43	
24 Benzo[k]fluoranthene	252	11.832	11.827	0.005	99	971155	5.00	5.03	
25 Benzo[a]pyrene	252	12.201	12.196	0.005	97	823719	5.00	5.33	
26 Indeno[1,2,3-cd]pyrene	276	13.881	13.870	0.011	99	799318	5.00	4.85	
27 Dibenz(a,h)anthracene	278	13.913	13.897	0.016	95	642886	5.00	4.92	
28 Benzo[g,h,i]perylene	276	14.373	14.357	0.016	98	721455	5.00	4.92	

Reagents:

SMLLPAHICVLVI_00032 Amount Added: 1.00 Units: mL

Report Date: 18-Nov-2014 15:34:23 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1709.D

Injection Date: 18-Nov-2014 13:56:30 Instrument ID: CMSY Operator ID:

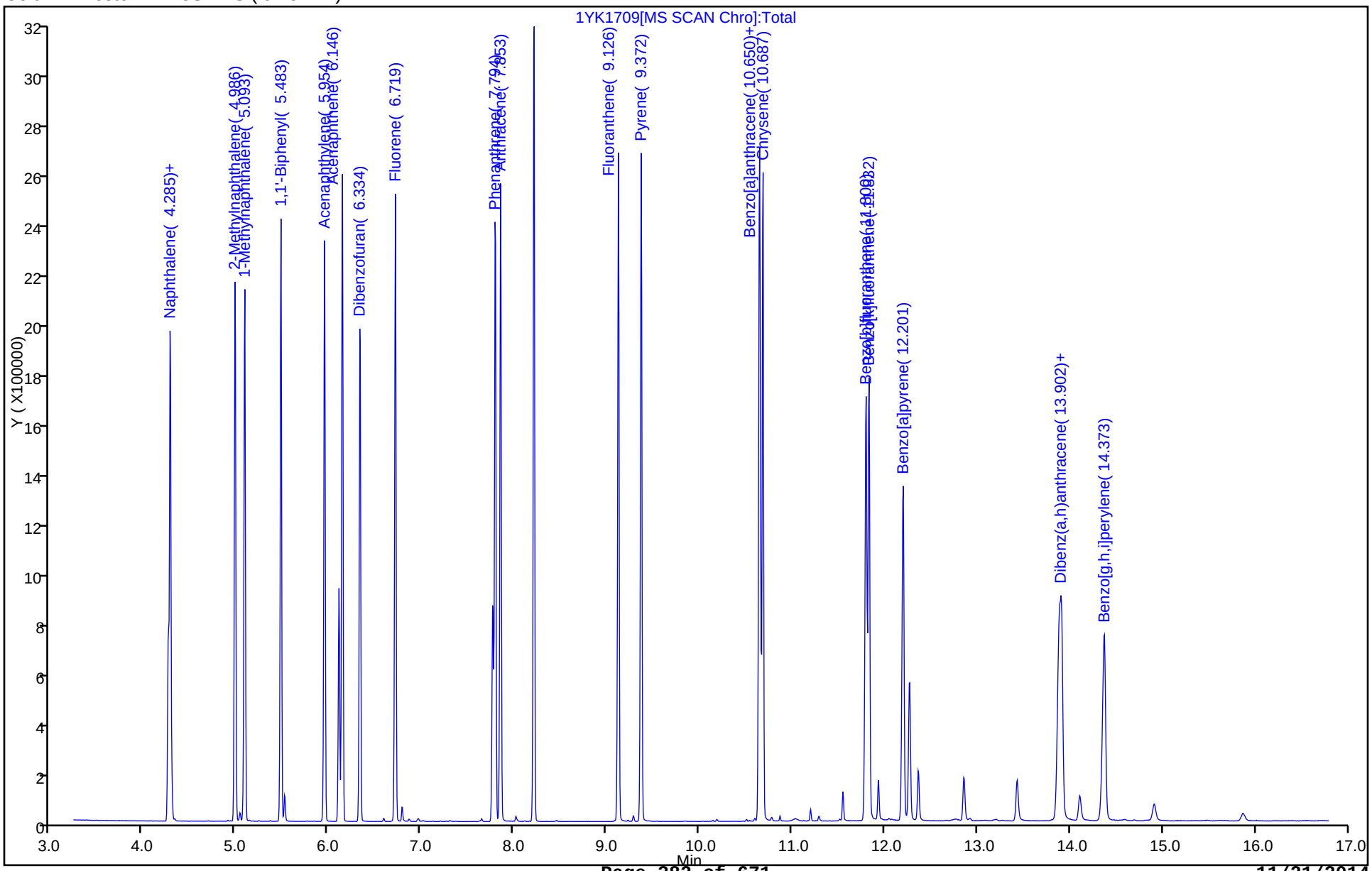
Lims ID: ICV Worklist Smp#: 9

Client ID:

Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 9

Method: 8270D_LLPAH_MSY Limit Group: 8270D_LL_PAH

Column: Restek RXi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Lab Sample ID: CCVIS 680-359719/3 Calibration Date: 11/20/2014 15:07

Instrument ID: CMSY Calib Start Date: 11/18/2014 11:20

GC Column: RXi- 5Sil MS ID: 0.25(mm) Calib End Date: 11/18/2014 13:33

Lab File ID: 2YK2003.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.053	1.043	0.7000	4.96	5.00	-0.9	20.0
2-Methylnaphthalene	Ave	0.6813	0.6947	0.4000	5.10	5.00	2.0	20.0
1-Methylnaphthalene	Ave	0.6212	0.6296		5.07	5.00	1.3	20.0
1,1'-Biphenyl	Ave	1.561	1.567		5.02	5.00	0.4	20.0
Acenaphthylene	Ave	1.855	1.956	0.9000	5.27	5.00	5.4	20.0
Acenaphthene	Ave	1.252	1.221	0.9000	4.88	5.00	-2.5	20.0
Dibenzofuran	Ave	1.682	1.711		5.09	5.00	1.7	20.0
Fluorene	Ave	1.338	1.399	0.9000	5.23	5.00	4.6	20.0
Phenanthrene	QuaF		1.138	0.7000	5.06	5.00	1.2	20.0
Anthracene	Ave	1.098	1.137	0.7000	5.18	5.00	3.6	20.0
Fluoranthene	Ave	1.146	1.225	0.6000	5.34	5.00	6.9	20.0
Pyrene	QuaF		1.251	0.6000	5.12	5.00	2.5	20.0
Benzo[a]anthracene	Ave	1.115	1.052	0.7000	4.72	5.00	-5.7	20.0
Chrysene	QuaF		0.9791	0.7000	4.98	5.00	-0.4	20.0
Benzo[b]fluoranthene	Ave	1.233	1.270	0.4000	5.15	5.00	3.0	20.0
Benzo[k]fluoranthene	QuaF		1.162	0.4000	4.72	5.00	-5.6	20.0
Benzo[a]pyrene	Ave	0.9793	1.018	0.4000	5.20	5.00	4.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8657	0.9778	0.2000	5.65	5.00	12.9	20.0
Dibenz(a,h)anthracene	Ave	0.8280	0.9055	0.2000	5.47	5.00	9.3	20.0
Benzo[g,h,i]perylene	Ave	0.9286	0.9610	0.2000	5.17	5.00	3.5	20.0
o-Terphenyl	QuaF		0.6097		4.92	5.00	-1.7	20.0

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2003.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 20-Nov-2014 15:07:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 680-0014972-003
Operator ID: Instrument ID: CMSY
Sublist: chrom-8270D_LLPAH_MSY*sub5

Method: \\SAVCHROM\ChromData\CMSY\20141120-14972.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 21-Nov-2014 06:47:33 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: webbk Date: 20-Nov-2014 15:24:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.978	3.978	0.000	99	299717	2.00	2.00	
* 2 Acenaphthene-d10	164	5.802	5.802	0.000	92	160881	2.00	2.00	
* 3 Phenanthrene-d10	188	7.449	7.449	0.000	98	273666	2.00	2.00	
* 4 Chrysene-d12	240	10.343	10.343	0.000	99	276838	2.00	2.00	
* 5 Perylene-d12	264	11.830	11.830	0.000	99	241637	2.00	2.00	
$ 6 o-Terphenyl	230	7.904	7.904	0.000	91	421983	5.00	4.92	
7 Naphthalene	128	3.999	3.999	0.000	99	781622	5.00	4.96	
9 2-Methylnaphthalene	142	4.695	4.695	0.000	85	520544	5.00	5.10	
10 1-Methylnaphthalene	142	4.796	4.796	0.000	93	471721	5.00	5.07	
11 1,1'-Biphenyl	154	5.187	5.187	0.000	99	630173	5.00	5.02	
12 Acenaphthylene	152	5.647	5.647	0.000	97	786633	5.00	5.27	
14 Acenaphthene	153	5.839	5.839	0.000	94	491045	5.00	4.88	
15 Dibenzofuran	168	6.027	6.027	0.000	100	688085	5.00	5.09	
16 Fluorene	166	6.406	6.406	0.000	84	562744	5.00	5.23	
17 Phenanthrene	178	7.476	7.476	0.000	96	778763	5.00	5.06	
18 Anthracene	178	7.535	7.535	0.000	99	777857	5.00	5.18	
19 Fluoranthene	202	8.808	8.808	0.000	99	837760	5.00	5.34	
20 Pyrene	202	9.054	9.054	0.000	98	866100	5.00	5.12	
21 Benzo[a]anthracene	228	10.332	10.332	0.000	98	728382	5.00	4.72	
22 Chrysene	228	10.370	10.370	0.000	99	677646	5.00	4.98	
23 Benzo[b]fluoranthene	252	11.413	11.413	0.000	98	767122	5.00	5.15	
24 Benzo[k]fluoranthene	252	11.439	11.439	0.000	99	701758	5.00	4.72	
25 Benzo[a]pyrene	252	11.771	11.771	0.000	97	615080	5.00	5.20	
26 Indeno[1,2,3-cd]pyrene	276	13.253	13.253	0.000	99	676735	5.00	5.65	
27 Dibenz(a,h)anthracene	278	13.285	13.285	0.000	98	546984	5.00	5.47	
28 Benzo[g,h,i]perylene	276	13.680	13.680	0.000	98	580551	5.00	5.17	

Reagents:

SMLLPAH5.0LVI_00025 Amount Added: 1.00 Units: mL

Report Date: 21-Nov-2014 06:47:34 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2003.D

Injection Date: 20-Nov-2014 15:07:30 Instrument ID: CMSY Operator ID:

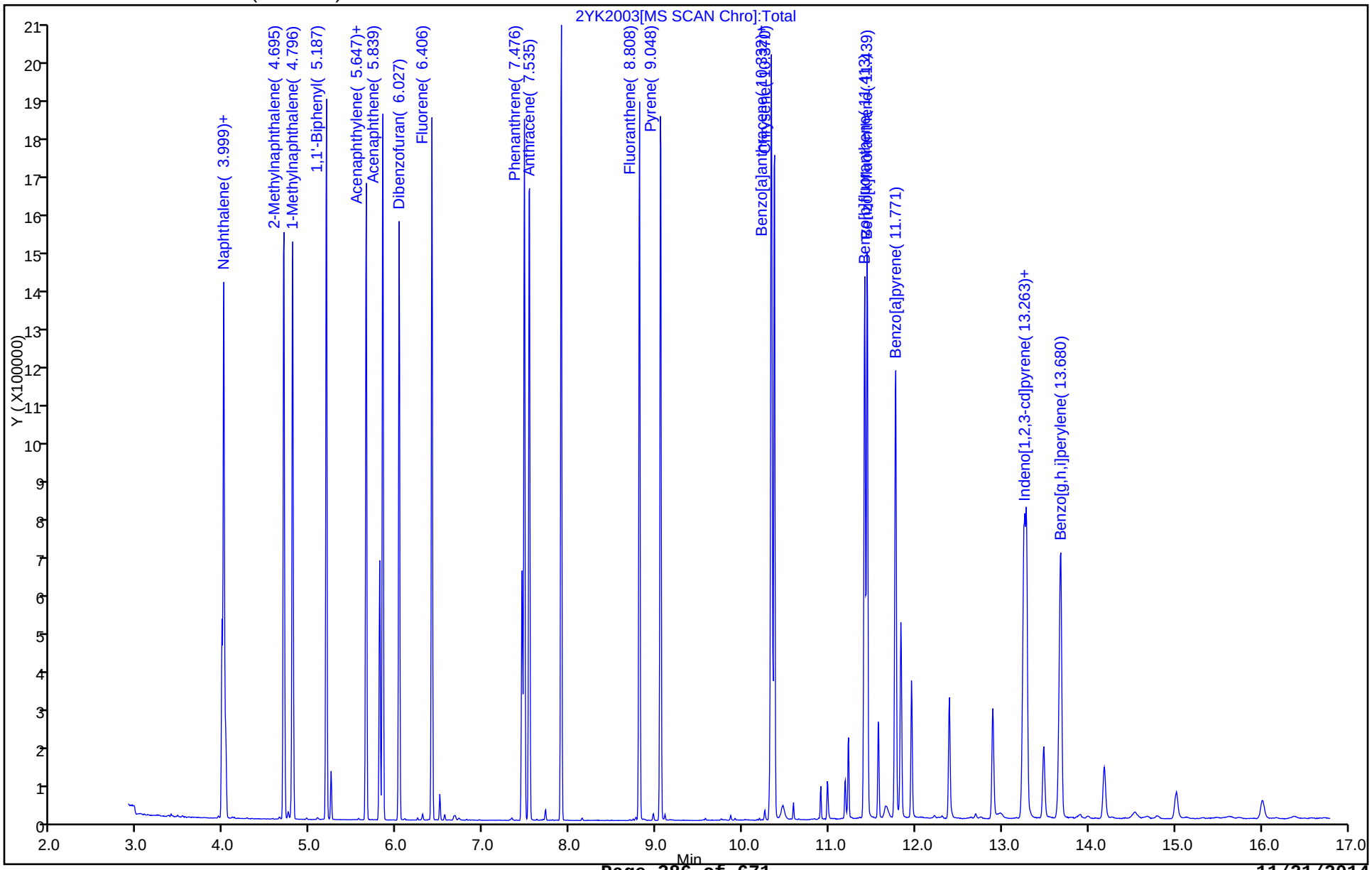
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8270D_LLPAH_MSY Limit Group: 8270D_LL_PAH

Column: Restek RXi-5Sil MS (0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1901.D				
Lims ID:	DFTPP				
Client ID:					
Sample Type:	DFTPP				
Inject. Date:	19-Nov-2014 12:15:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	DFTPP				
Misc. Info.:	680-0014922-001				
Operator ID:	RM	Instrument ID:	CMSK		
Method:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m				
Limit Group:	8270D_LL_PAH				
Last Update:	20-Nov-2014 10:09:35	Calib Date:	19-Nov-2014 14:45:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D				
Column 1 :	Restek RXi-5Sil MS (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK022				

First Level Reviewer: webbk Date: 20-Nov-2014 08:26:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
32 Pentachlorophenol_T	266	4.054	4.054	0.000	0	86399	NR	NR	
27 DFTPP									
31 Benzidine_T	184	5.312	5.312	0.000	0	381775	NR	NR	
30 4,4'-DDE	246	5.482	5.482	0.000	84	710		NR	7
28 4,4'-DDD	235	5.776	5.776	0.000	97	17434		NR	7M
29 4,4'-DDT	235	6.040	6.040	0.000	98	203817	NR	NR	7

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated

Reagents:

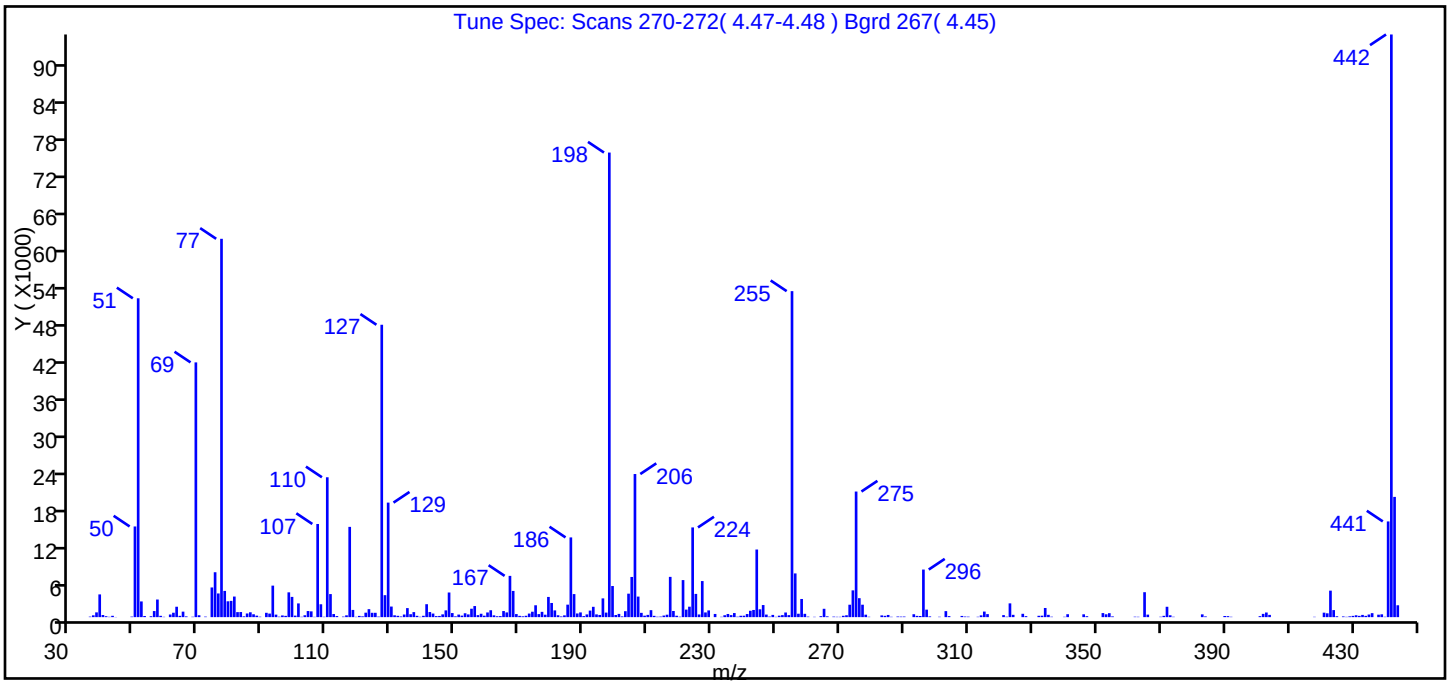
SM-LLTUNE_00080 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1901.D				
Injection Date:	19-Nov-2014 12:15:30	Instrument ID:	CMSK		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	RM	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Tune Method:	DFTPP Method 525.2, BP 442				

27 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
442	base peak, or >90% of 198	100.0 (125.4)
51	10-80% of the base peak	54.7
68	<2% of mass 69	0.1 (0.2)
69	Present	43.7
70	<2% of mass 69	0.3 (0.7)
127	10-80% of the base peak	50.2
197	<2% of mass 198	0.8 (1.0)
198	base peak, or >50% of 442	79.7
199	5-9% of mass 198	5.3 (6.7)
275	10-60% of the base peak	21.6
365	>1% of the base peak	4.3
441	Present and < mass 443	16.4 (79.6)
443	15-24% of mass 442	20.6

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1901.D\8270_LLPAH_CMSK.rslt\spectra.d
Injection Date: 19-Nov-2014 12:15:30
Spectrum: Tune Spec: Scans 270-272(4.47-4.48) Bgrd 267(4.45)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 311

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	84	125.00	707	203.00	968	290.00	95
37.00	296	126.00	91	204.00	3817	293.00	474
38.00	776	127.00	47544	205.00	6533	294.00	206
39.00	3698	128.00	3573	206.00	23272	295.00	186
40.00	346	129.00	18624	207.00	3341	296.00	7738
41.00	151	130.00	1722	208.00	699	297.00	1219
42.00	53	131.00	299	209.00	239	298.00	119
43.00	218	132.00	216	210.00	367	301.00	63
44.00	27	133.00	108	211.00	1134	303.00	978
49.00	88	134.00	426	212.00	212	304.00	165
50.00	14745	135.00	1471	213.00	68	308.00	197
51.00	51848	136.00	477	214.00	91	309.00	96
52.00	2554	137.00	819	215.00	258	310.00	78
53.00	183	138.00	215	216.00	395	313.00	61
55.00	148	139.00	56	217.00	6548	314.00	290
56.00	989	140.00	220	218.00	999	315.00	907
57.00	2866	141.00	2104	219.00	229	316.00	491
58.00	215	142.00	831	220.00	74	321.00	330
59.00	51	143.00	582	221.00	6025	322.00	72
61.00	429	144.00	168	222.00	1226	323.00	2240
62.00	717	145.00	197	223.00	1699	324.00	377
63.00	1692	146.00	452	224.00	14588	327.00	544
64.00	213	147.00	1101	225.00	3778	328.00	160
65.00	895	148.00	4007	226.00	435	332.00	220
66.00	120	149.00	665	227.00	5867	333.00	238
68.00	65	150.00	128	228.00	765	334.00	1489
69.00	41424	151.00	416	229.00	1094	335.00	375
70.00	305	152.00	248	231.00	518	336.00	71
72.00	87	153.00	632	233.00	57	340.00	61
74.00	4827	154.00	442	234.00	311	341.00	475
75.00	7302	155.00	1370	235.00	515	346.00	461
76.00	3851	156.00	1804	236.00	331	347.00	151
77.00	61520	157.00	327	237.00	667	352.00	662

Report Date: 20-Nov-2014 10:09:35 Chrom Revision: 2.2 06-Nov-2014 14:50:32
Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1901.D\8270_LLPAH_CMSK.rslt\spectra.d
Injection Date: 19-Nov-2014 12:15:30
Spectrum: Tune Spec: Scans 270-272(4.47-4.48) Bgrd 267(4.45)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 311

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	4265	158.00	551	238.00	73	353.00	465
79.00	2578	159.00	235	239.00	224	354.00	645
80.00	2643	160.00	761	240.00	234	355.00	120
81.00	3348	161.00	1122	241.00	504	362.00	72
82.00	816	162.00	293	242.00	1036	363.00	59
83.00	830	163.00	148	243.00	1168	365.00	4056
84.00	128	164.00	168	244.00	10995	366.00	409
85.00	596	165.00	991	245.00	1277	370.00	66
86.00	790	166.00	768	246.00	1967	371.00	213
87.00	467	167.00	6710	247.00	416	372.00	1686
88.00	244	168.00	4261	248.00	95	373.00	304
89.00	72	169.00	500	249.00	364	374.00	62
91.00	707	170.00	211	250.00	51	383.00	453
92.00	579	171.00	134	251.00	240	384.00	117
93.00	5124	172.00	224	252.00	327	390.00	186
94.00	408	173.00	581	253.00	755	391.00	161
95.00	76	174.00	882	254.00	325	392.00	60
96.00	275	175.00	1930	255.00	53008	401.00	160
97.00	211	176.00	495	256.00	7109	402.00	532
98.00	4033	177.00	862	257.00	554	403.00	755
99.00	3292	178.00	395	258.00	2954	404.00	368
100.00	247	179.00	3285	259.00	540	418.00	54
101.00	2233	180.00	2304	260.00	90	421.00	726
102.00	58	181.00	1096	262.00	52	422.00	625
103.00	308	182.00	308	264.00	156	423.00	4308
104.00	991	183.00	111	265.00	1359	424.00	1146
105.00	941	184.00	290	266.00	130	425.00	142
106.00	50	185.00	2031	268.00	83	427.00	114
107.00	15148	186.00	12965	269.00	57	428.00	50
108.00	2094	187.00	3749	270.00	52	429.00	128
109.00	60	188.00	598	271.00	222	430.00	207
110.00	22744	189.00	768	272.00	306	431.00	303
111.00	3750	190.00	166	273.00	2020	432.00	210
112.00	505	191.00	443	274.00	4356	433.00	363

Report Date: 20-Nov-2014 10:09:35 Chrom Revision: 2.2 06-Nov-2014 14:50:32
Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1901.D\8270_LLPAH_CMSK.rslt\spectra.d
Injection Date: 19-Nov-2014 12:15:30
Spectrum: Tune Spec: Scans 270-272(4.47-4.48) Bgrd 267(4.45)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 311

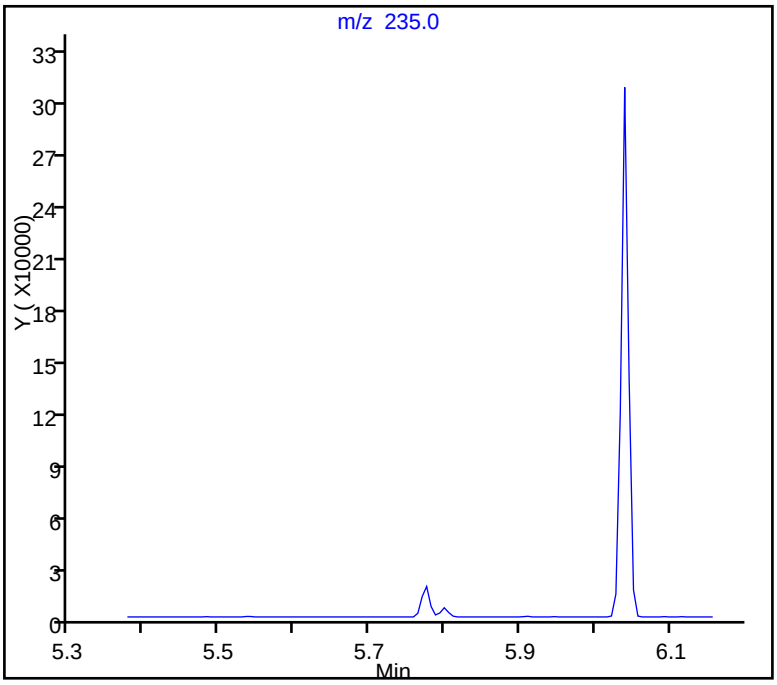
m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	175	192.00	1063	275.00	20424	434.00	210
115.00	90	193.00	1679	276.00	3084	435.00	426
116.00	295	194.00	448	277.00	2022	436.00	649
117.00	14678	195.00	354	278.00	400	438.00	400
118.00	1174	196.00	3050	279.00	64	439.00	459
119.00	54	197.00	739	283.00	284	440.00	63
120.00	202	198.00	75544	284.00	215	441.00	15564
121.00	126	199.00	5060	285.00	356	442.00	94744
122.00	725	200.00	348	286.00	58	443.00	19552
123.00	1297	201.00	528	288.00	101	444.00	1931
124.00	706	202.00	120	289.00	85		

Breakdown Report

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1901.D				
Injection Date:	19-Nov-2014 12:15:30	Instrument ID:	CMSK		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	RM	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

29 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

29 4,4'-DDT, Area = 203817
28 4,4'-DDD, Area = 17434
30 4,4'-DDE, Area = 710

%Breakdown: 8.17%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Savannah

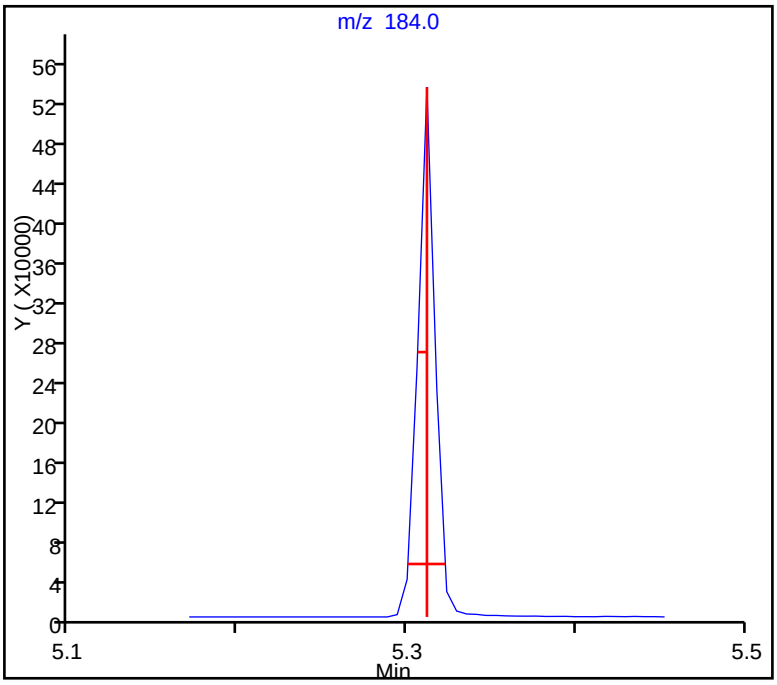
Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1901.D				
Injection Date:	19-Nov-2014 12:15:30	Instrument ID:	CMSK		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	RM	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

31 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Savannah

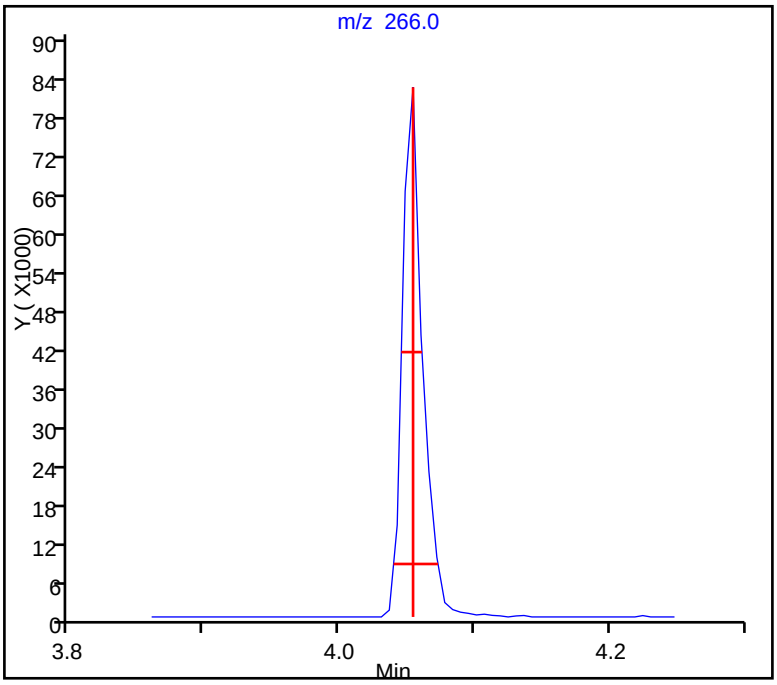
Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1901.D				
Injection Date:	19-Nov-2014 12:15:30	Instrument ID:	CMSK		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	RM	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

32 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.019 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.3, Max. Tailing < 2.00
Passed



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1701.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 18-Nov-2014 10:58:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 680-0014871-001
Operator ID: Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 18-Nov-2014 15:34:47 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: webbk Date: 18-Nov-2014 15:34:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.868	4.868	0.000	0	125103	NR	NR	
13 Benzidine_T	184	6.157	6.157	0.000	0	515802	NR	NR	
29 DFTPP									
30 4,4'-DDE	246	6.323	6.323	0.000	92	1382		NR	7
31 4,4'-DDD	235	6.606	6.606	0.000	92	45134		NR	7M
32 4,4'-DDT	235	6.868	6.868	0.000	98	236473	NR	NR	7

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

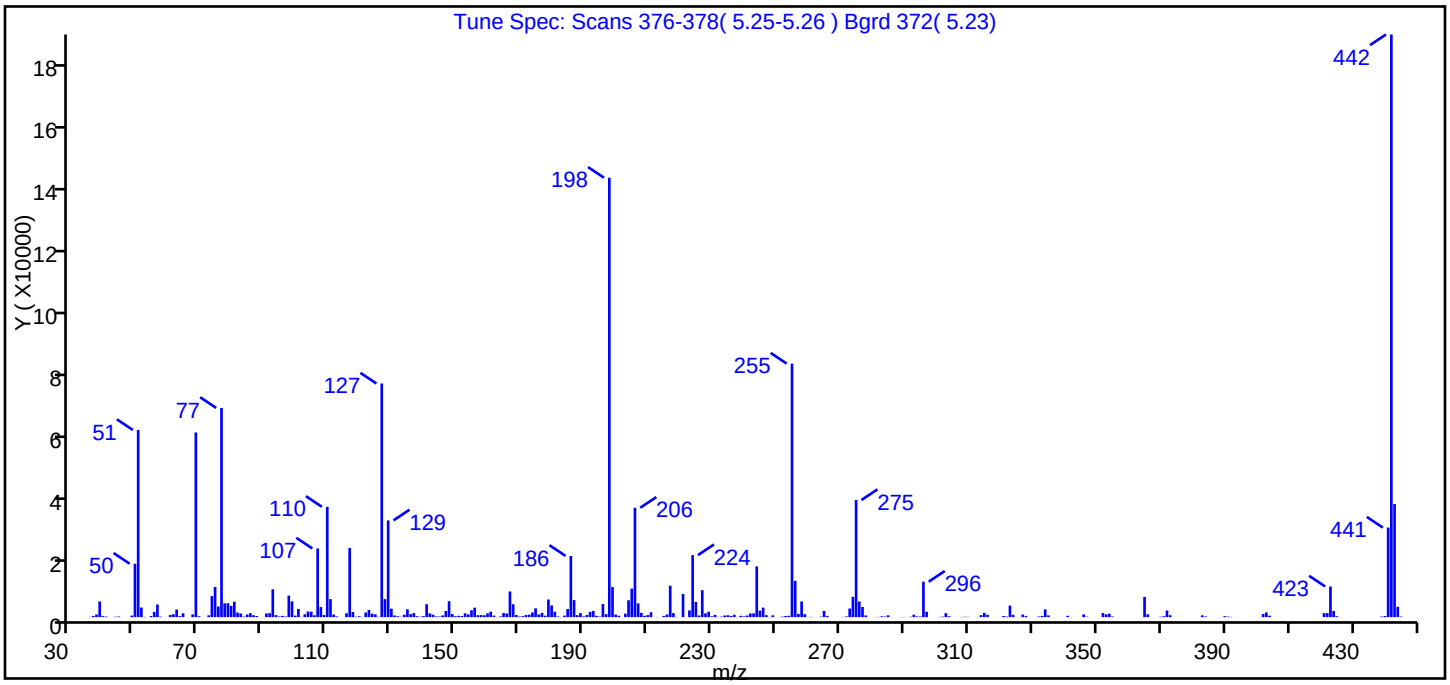
SM-LLTUNE_00080 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1701.D				
Injection Date:	18-Nov-2014 10:58:30	Instrument ID:	CMSY		
Lims ID:	DFTPP				
Client ID:					
Operator ID:		ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Tune Method:	DFTPP Method 525.2, BP 442				

29 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
442	base peak, or >90% of 198	100.0 (132.6)
51	10-80% of the base peak	32.1
68	<2% of mass 69	0.5 (1.5)
69	Present	31.7
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	40.1
197	<2% of mass 198	0.5 (0.7)
198	base peak, or >50% of 442	75.4
199	5-9% of mass 198	5.2 (6.8)
275	10-60% of the base peak	20.1
365	>1% of the base peak	3.5
441	Present and < mass 443	15.4 (79.2)
443	15-24% of mass 442	19.4

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1701.D\8270D_LLPAH_MSY.rslt\spectra.d
Injection Date: 18-Nov-2014 10:58:30
Spectrum: Tune Spec: Scans 376-378(5.25-5.26) Bgrd 372(5.23)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 287

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	74	122.00	1497	194.00	432	278.00	552
37.00	387	123.00	2278	195.00	202	281.00	53
38.00	848	124.00	1114	196.00	4182	282.00	69
39.00	5016	125.00	902	197.00	942	283.00	257
40.00	327	126.00	128	198.00	140160	284.00	181
41.00	184	127.00	74520	199.00	9594	285.00	582
43.00	12	128.00	5762	200.00	811	289.00	50
44.00	145	129.00	30864	201.00	443	290.00	61
45.00	198	130.00	2709	203.00	1117	292.00	141
47.00	18	131.00	533	204.00	5395	293.00	792
49.00	505	132.00	281	205.00	9111	294.00	222
50.00	17040	133.00	112	206.00	34896	295.00	202
51.00	59704	134.00	776	207.00	4390	296.00	11307
52.00	3069	135.00	2507	208.00	1385	297.00	1716
53.00	77	136.00	957	209.00	418	301.00	67
55.00	364	137.00	1276	210.00	656	302.00	173
56.00	1697	138.00	293	211.00	1544	303.00	1272
57.00	4024	139.00	128	213.00	56	304.00	289
58.00	158	140.00	332	215.00	400	308.00	73
61.00	719	141.00	4129	216.00	867	309.00	119
62.00	928	142.00	1191	217.00	10015	310.00	87
63.00	2425	143.00	785	218.00	1287	313.00	69
64.00	329	144.00	224	219.00	74	314.00	640
65.00	1233	145.00	199	221.00	7395	315.00	1361
68.00	892	146.00	542	223.00	2149	316.00	761
69.00	58912	147.00	1972	224.00	19792	321.00	363
70.00	287	148.00	5082	225.00	4861	322.00	187
73.00	583	149.00	973	226.00	522	323.00	3677
74.00	6703	150.00	296	227.00	8612	324.00	754
75.00	9625	151.00	442	228.00	1202	326.00	51
76.00	3380	152.00	354	229.00	1743	327.00	827
77.00	66736	153.00	1221	230.00	278	328.00	393
78.00	4418	154.00	870	231.00	717	332.00	203

Report Date: 18-Nov-2014 15:34:47 Chrom Revision: 2.2 06-Nov-2014 14:50:32
Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1701.D\8270D_LLPAH_MSY.rslt\spectra.d
Injection Date: 18-Nov-2014 10:58:30
Spectrum: Tune Spec: Scans 376-378(5.25-5.26) Bgrd 372(5.23)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 287

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	4439	155.00	2190	232.00	84	333.00	376
80.00	3606	156.00	3016	233.00	171	334.00	2467
81.00	4931	157.00	623	234.00	531	335.00	557
82.00	1456	158.00	656	235.00	609	341.00	434
83.00	1152	159.00	599	236.00	390	342.00	51
84.00	193	160.00	1226	237.00	771	346.00	868
85.00	847	161.00	1764	238.00	72	347.00	159
86.00	1262	162.00	501	239.00	429	352.00	1319
87.00	625	163.00	55	240.00	248	353.00	889
88.00	355	164.00	224	241.00	514	354.00	1125
91.00	1187	165.00	1321	242.00	1171	355.00	197
92.00	1268	166.00	1172	243.00	1207	365.00	6451
93.00	8887	167.00	8198	244.00	16190	366.00	903
94.00	639	168.00	4111	245.00	2077	370.00	130
95.00	213	169.00	678	246.00	3041	371.00	286
96.00	400	170.00	191	247.00	635	372.00	2119
97.00	207	171.00	316	248.00	81	373.00	609
98.00	6865	172.00	693	249.00	574	383.00	580
99.00	5046	173.00	796	251.00	56	384.00	215
100.00	473	174.00	1490	252.00	166	390.00	325
101.00	2635	175.00	2812	253.00	369	391.00	186
102.00	97	176.00	835	254.00	441	392.00	89
103.00	901	177.00	1373	255.00	80872	401.00	59
104.00	1791	178.00	470	256.00	11573	402.00	1016
105.00	1747	179.00	5630	257.00	1031	403.00	1505
106.00	595	180.00	3743	258.00	5005	404.00	461
107.00	21904	181.00	1738	259.00	934	421.00	1276
108.00	3217	182.00	218	260.00	68	422.00	1280
109.00	660	183.00	50	261.00	80	423.00	9784
110.00	35184	184.00	501	264.00	153	424.00	1961
111.00	5742	185.00	2598	265.00	1999	425.00	291
112.00	834	186.00	19536	266.00	376	439.00	195
113.00	238	187.00	5456	271.00	83	440.00	371
116.00	1223	188.00	623	272.00	228	441.00	28568

Report Date: 18-Nov-2014 15:34:47 Chrom Revision: 2.2 06-Nov-2014 14:50:32
Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1701.D\8270D_LLPAH_MSY.rslt\spectra.d
Injection Date: 18-Nov-2014 10:58:30
Spectrum: Tune Spec: Scans 376-378(5.25-5.26) Bgrd 372(5.23)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 287

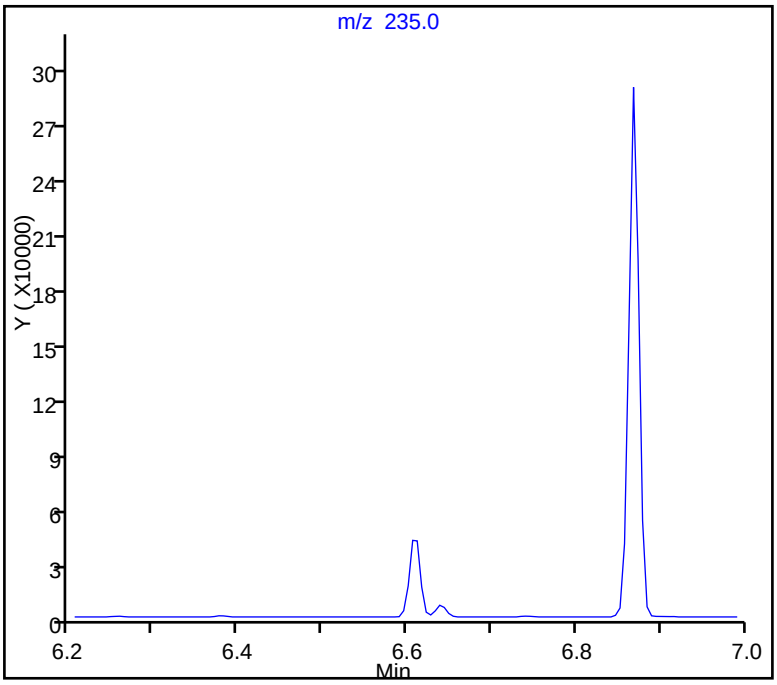
m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	22056	189.00	1286	273.00	2746	442.00	185856
118.00	1651	190.00	234	274.00	6488	443.00	36080
119.00	164	191.00	682	275.00	37352	444.00	3288
120.00	282	192.00	1673	276.00	5002	445.00	172
121.00	52	193.00	1965	277.00	3229		

Breakdown Report

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1701.D				
Injection Date:	18-Nov-2014 10:58:30	Instrument ID:	CMSY		
Lims ID:	DFTPP				
Client ID:					
Operator ID:		ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

32 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

32 4,4'-DDT, Area = 236473
31 4,4'-DDD, Area = 45134
30 4,4'-DDE, Area = 1382

%Breakdown: 16.44%, Max Limit: 20.00%
Passed

Report Date: 18-Nov-2014 15:34:47 Chrom Revision: 2.2 06-Nov-2014 14:50:32

Peak Tailing Report

TestAmerica Savannah

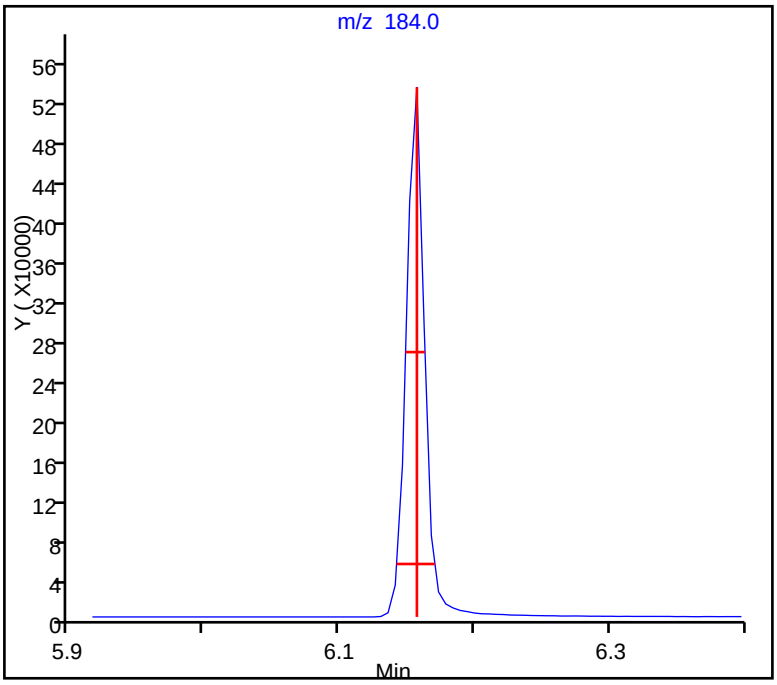
Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1701.D
Injection Date: 18-Nov-2014 10:58:30 Instrument ID: CMSY
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: 8270D_LLPAH_MSY Limit Group: 8270D_LL_PAH

13 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 0.9, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Savannah

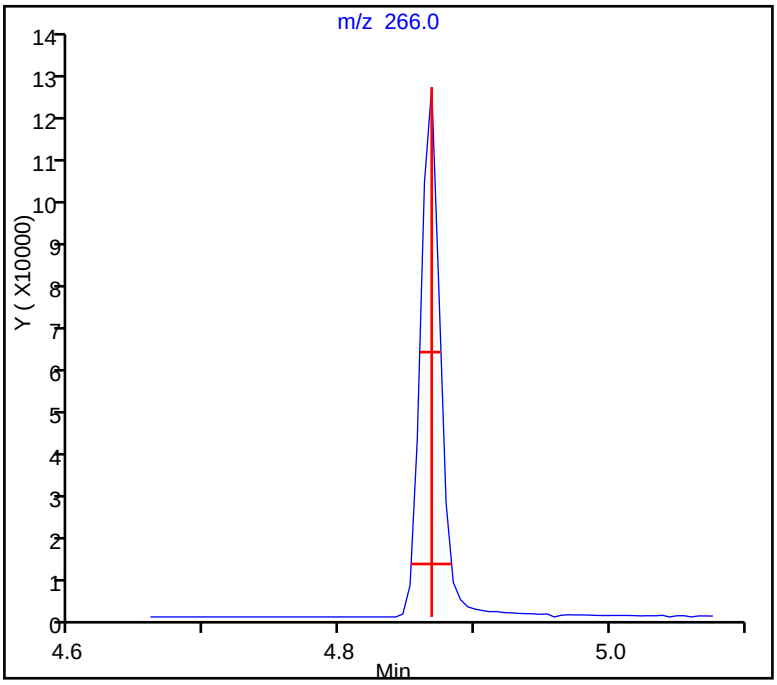
Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1701.D				
Injection Date:	18-Nov-2014 10:58:30	Instrument ID:	CMSY		
Lims ID:	DFTPP				
Client ID:					
Operator ID:		ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

8 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2002.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 20-Nov-2014 14:48:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 680-0014972-002
Operator ID: Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141120-14972.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 21-Nov-2014 06:47:32 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: webbk Date: 20-Nov-2014 15:05:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.593	4.593	0.000	0	90652	NR	NR	
13 Benzidine_T	184	5.882	5.882	0.000	0	371011	NR	NR	
29 DFTPP									
30 4,4'-DDE	246	6.048	6.048	0.000	92	748		NR	7
31 4,4'-DDD	235	6.331	6.331	0.000	95	37352		NR	7M
32 4,4'-DDT	235	6.583	6.583	0.000	98	153738	NR	NR	7

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

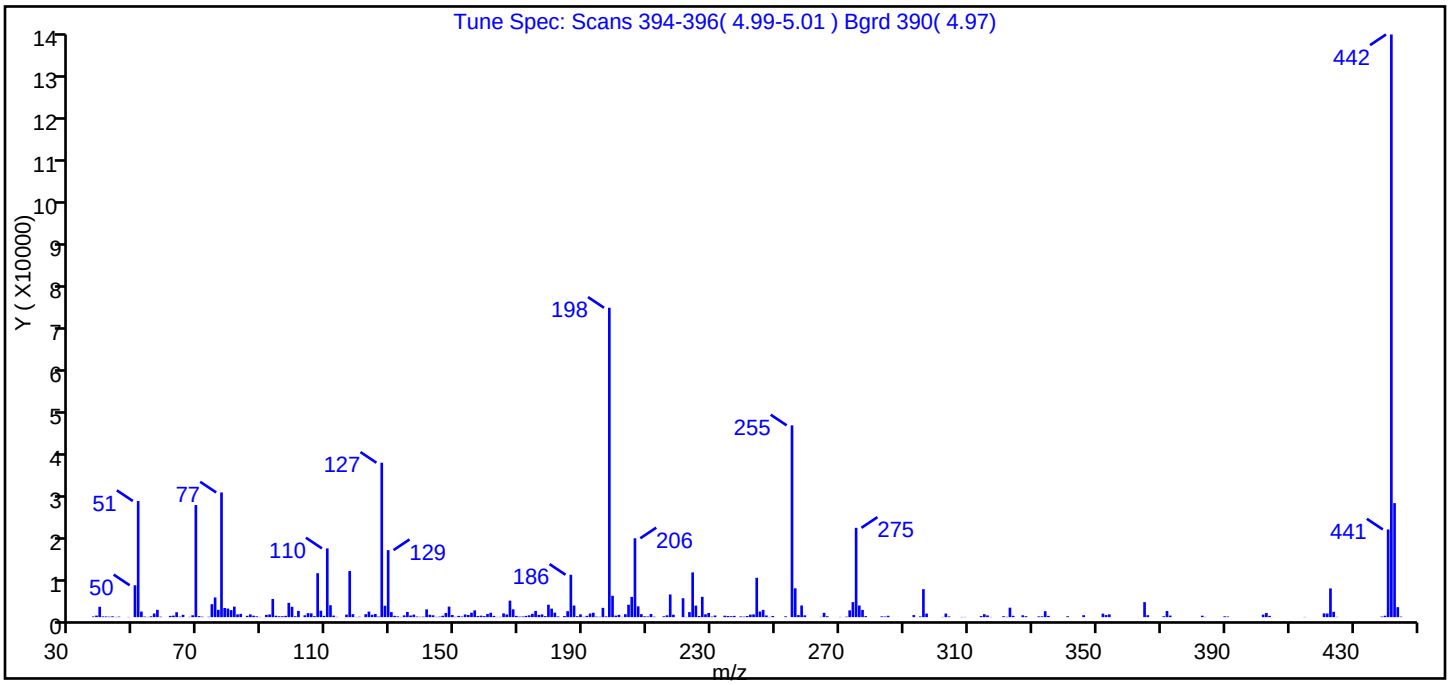
SM-LLTUNE_00080 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2002.D				
Injection Date:	20-Nov-2014 14:48:30	Instrument ID:	CMSY		
Lims ID:	DFTPP				
Client ID:					
Operator ID:		ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Tune Method:	DFTPP Method 525.2, BP 442				

29 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
442	base peak, or >90% of 198	100.0 (188.3)
51	10-80% of the base peak	19.9
68	<2% of mass 69	0.3 (1.6)
69	Present	19.2
70	<2% of mass 69	0.2 (0.9)
127	10-80% of the base peak	26.5
197	<2% of mass 198	0.1 (0.2)
198	base peak, or >50% of 442	53.1
199	5-9% of mass 198	3.7 (6.9)
275	10-60% of the base peak	15.3
365	>1% of the base peak	2.6
441	Present and < mass 443	15.0 (76.9)
443	15-24% of mass 442	19.6

Data File: \\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2002.D\8270D_LLPAH_MSY.rslt\spectra.d
Injection Date: 20-Nov-2014 14:48:30
Spectrum: Tune Spec: Scans 394-396(4.99-5.01) Bgrd 390(4.97)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 265

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	157	116.00	576	185.00	1363	270.00	50
38.00	359	117.00	10543	186.00	9682	272.00	116
39.00	2378	118.00	676	187.00	2652	273.00	1549
40.00	171	119.00	50	188.00	220	274.00	3429
41.00	161	120.00	93	189.00	639	275.00	20408
42.00	112	122.00	667	190.00	68	276.00	2657
43.00	186	123.00	1265	191.00	308	277.00	1649
44.00	52	124.00	540	192.00	834	278.00	238
45.00	121	125.00	722	193.00	1005	283.00	177
48.00	51	126.00	136	194.00	120	284.00	137
50.00	7283	127.00	35280	195.00	85	285.00	310
51.00	26536	128.00	2605	196.00	2122	293.00	472
52.00	1268	129.00	15312	197.00	167	295.00	158
53.00	129	130.00	1151	198.00	70688	296.00	6392
54.00	57	131.00	301	199.00	4877	297.00	816
55.00	195	132.00	179	200.00	346	302.00	51
56.00	829	133.00	55	201.00	522	303.00	822
57.00	1669	134.00	407	202.00	62	304.00	161
58.00	103	135.00	1182	203.00	664	308.00	53
61.00	284	136.00	375	204.00	2840	309.00	51
62.00	352	137.00	578	205.00	4628	314.00	249
63.00	1117	138.00	142	206.00	18016	315.00	673
64.00	116	139.00	81	207.00	2465	316.00	391
65.00	531	140.00	115	208.00	690	317.00	53
67.00	72	141.00	1776	209.00	193	321.00	206
68.00	419	142.00	547	210.00	153	322.00	82
69.00	25616	143.00	426	211.00	725	323.00	2164
70.00	233	144.00	62	212.00	109	324.00	306
71.00	107	145.00	117	215.00	192	327.00	429
73.00	90	146.00	320	216.00	415	328.00	225
74.00	2964	147.00	956	217.00	5182	332.00	175
75.00	4498	148.00	2407	218.00	554	333.00	188
76.00	1678	149.00	481	221.00	4320	334.00	1364

Report Date: 21-Nov-2014 06:47:32 Chrom Revision: 2.2 06-Nov-2014 14:50:32
Data File: \\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2002.D\8270D_LLPAH_MSY.rslt\spectra.d
Injection Date: 20-Nov-2014 14:48:30
Spectrum: Tune Spec: Scans 394-396(4.99-5.01) Bgrd 390(4.97)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 265

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	28488	150.00	68	222.00	50	335.00	283
78.00	2094	151.00	289	223.00	1151	341.00	213
79.00	1959	152.00	152	224.00	10225	346.00	448
80.00	1607	153.00	614	225.00	2637	352.00	796
81.00	2396	154.00	495	226.00	279	353.00	477
82.00	627	155.00	1025	227.00	4645	354.00	635
83.00	749	156.00	1553	228.00	652	365.00	3428
85.00	299	157.00	274	229.00	951	366.00	451
86.00	634	158.00	339	230.00	123	371.00	210
87.00	331	159.00	230	231.00	371	372.00	1396
88.00	185	160.00	725	234.00	326	373.00	357
89.00	50	161.00	1009	235.00	259	383.00	330
91.00	515	162.00	291	236.00	216	384.00	55
92.00	620	163.00	53	237.00	292	390.00	188
93.00	4156	164.00	72	239.00	166	391.00	140
94.00	321	165.00	860	240.00	115	402.00	577
95.00	207	166.00	612	241.00	257	403.00	952
96.00	207	167.00	3778	242.00	586	404.00	290
97.00	297	168.00	1785	243.00	629	415.00	50
98.00	3268	169.00	285	244.00	8997	421.00	857
99.00	2365	170.00	124	245.00	1284	422.00	834
100.00	202	171.00	149	246.00	1666	423.00	6561
101.00	1415	172.00	290	247.00	378	424.00	1218
103.00	421	173.00	420	248.00	55	425.00	62
104.00	915	174.00	762	249.00	269	439.00	125
105.00	866	175.00	1415	253.00	193	440.00	323
106.00	220	176.00	506	255.00	43816	441.00	20032
107.00	10042	177.00	624	256.00	6581	442.00	133120
108.00	1475	178.00	238	257.00	471	443.00	26048
109.00	305	179.00	2833	258.00	2670	444.00	2281
110.00	15706	180.00	1941	259.00	418	445.00	117
111.00	2719	181.00	1020	264.00	62		
112.00	348	182.00	169	265.00	984		
113.00	62	184.00	259	266.00	210		

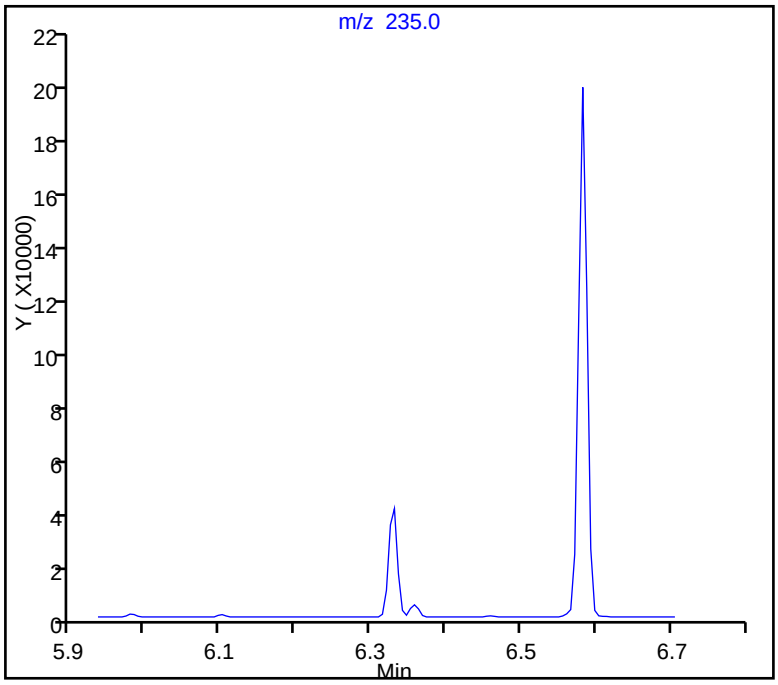
m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	28488	150.00	68	222.00	50	335.00	283
78.00	2094	151.00	289	223.00	1151	341.00	213
79.00	1959	152.00	152	224.00	10225	346.00	448
80.00	1607	153.00	614	225.00	2637	352.00	796
81.00	2396	154.00	495	226.00	279	353.00	477
82.00	627	155.00	1025	227.00	4645	354.00	635
83.00	749	156.00	1553	228.00	652	365.00	3428
85.00	299	157.00	274	229.00	951	366.00	451
86.00	634	158.00	339	230.00	123	371.00	210
87.00	331	159.00	230	231.00	371	372.00	1396
88.00	185	160.00	725	234.00	326	373.00	357
89.00	50	161.00	1009	235.00	259	383.00	330
91.00	515	162.00	291	236.00	216	384.00	55
92.00	620	163.00	53	237.00	292	390.00	188
93.00	4156	164.00	72	239.00	166	391.00	140
94.00	321	165.00	860	240.00	115	402.00	577
95.00	207	166.00	612	241.00	257	403.00	952
96.00	207	167.00	3778	242.00	586	404.00	290
97.00	297	168.00	1785	243.00	629	415.00	50
98.00	3268	169.00	285	244.00	8997	421.00	857
99.00	2365	170.00	124	245.00	1284	422.00	834
100.00	202	171.00	149	246.00	1666	423.00	6561
101.00	1415	172.00	290	247.00	378	424.00	1218
103.00	421	173.00	420	248.00	55	425.00	62
104.00	915	174.00	762	249.00	269	439.00	125
105.00	866	175.00	1415	253.00	193	440.00	323
106.00	220	176.00	506	255.00	43816	441.00	20032
107.00	10042	177.00	624	256.00	6581	442.00	133120
108.00	1475	178.00	238	257.00	471	443.00	26048
109.00	305	179.00	2833	258.00	2670	444.00	2281
110.00	15706	180.00	1941	259.00	418	445.00	117
111.00	2719	181.00	1020	264.00	62		
112.00	348	182.00	169	265.00	984		
113.00	62	184.00	259	266.00	210		

Breakdown Report

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2002.D				
Injection Date:	20-Nov-2014 14:48:30	Instrument ID:	CMSY		
Lims ID:	DFTPP				
Client ID:					
Operator ID:		ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

32 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

32 4,4'-DDT, Area = 153738
31 4,4'-DDD, Area = 37352
30 4,4'-DDE, Area = 748

%Breakdown: 19.86%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Savannah

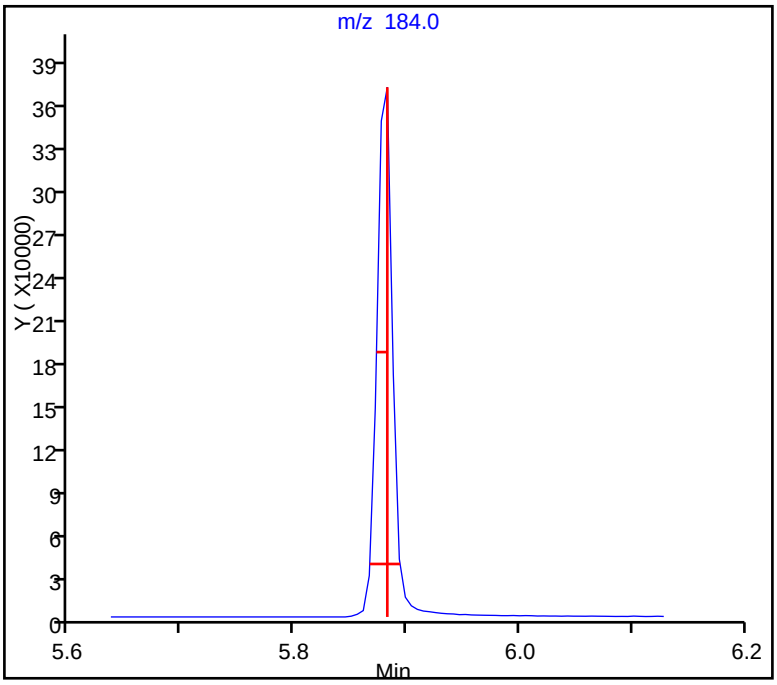
Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2002.D				
Injection Date:	20-Nov-2014 14:48:30	Instrument ID:	CMSY		
Lims ID:	DFTPP				
Client ID:					
Operator ID:		ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

13 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.7, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Savannah

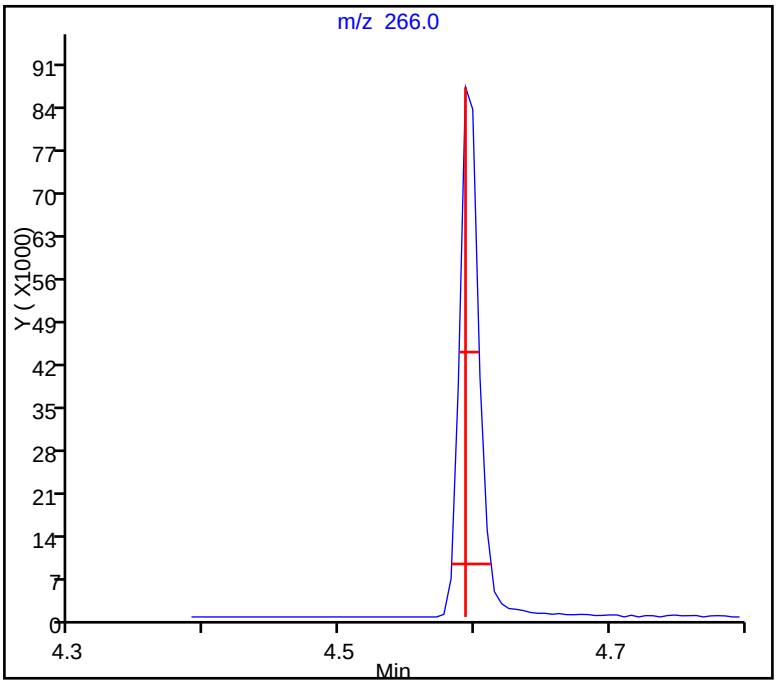
Data File:	\\SAVCHROM\ChromData\CMSY\20141120-14972.b\2YK2002.D				
Injection Date:	20-Nov-2014 14:48:30	Instrument ID:	CMSY		
Lims ID:	DFTPP				
Client ID:					
Operator ID:		ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

8 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.019 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.8, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah
Job No.: 680-107159-1
SDG No.: 680-107159-1
Client Sample ID:
Lab Sample ID: MB 680-358328/18-A
Matrix: Solid
Lab File ID: 1YK1713.D
Analysis Method: 8270D_LL_PAH
Date Collected:
Extract. Method: 3546
Date Extracted: 11/12/2014 15:01
Sample wt/vol: 30.06(g)
Date Analyzed: 11/18/2014 15:29
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 359245
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	6.7	U	6.7	3.3
208-96-8	Acenaphthylene	6.7	U	6.7	3.3
120-12-7	Anthracene	6.7	U	6.7	3.3
56-55-3	Benzo[a]anthracene	6.7	U	6.7	3.3
50-32-8	Benzo[a]pyrene	6.7	U	6.7	1.2
205-99-2	Benzo[b]fluoranthene	6.7	U	6.7	3.3
191-24-2	Benzo[g,h,i]perylene	6.7	U	6.7	3.3
207-08-9	Benzo[k]fluoranthene	6.7	U	6.7	2.0
218-01-9	Chrysene	6.7	U	6.7	3.3
53-70-3	Dibenz(a,h)anthracene	6.7	U	6.7	3.3
206-44-0	Fluoranthene	6.7	U	6.7	3.3
86-73-7	Fluorene	6.7	U	6.7	3.3
193-39-5	Indeno[1,2,3-cd]pyrene	6.7	U	6.7	3.3
90-12-0	1-Methylnaphthalene	6.7	U	6.7	3.1
91-57-6	2-Methylnaphthalene	6.7	U	6.7	3.3
91-20-3	Naphthalene	6.7	U	6.7	3.3
85-01-8	Phenanthrene	6.7	U	6.7	2.4
129-00-0	Pyrene	6.7	U	6.7	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	85		36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1713.D				
Lims ID:	MB 680-358328/18-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	18-Nov-2014 15:29:30	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 358328/18-A				
Misc. Info.:	680-0014871-013				
Operator ID:		Instrument ID:	CMSY		

Method:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m		
Limit Group:	8270D_LL_PAH		
Last Update:	19-Nov-2014 10:08:40	Calib Date:	18-Nov-2014 13:33:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D		

Column 1 :	Restek RXi-5Sil MS (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK032	

First Level Reviewer: webbk Date: 18-Nov-2014 15:55:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.253	4.264	-0.011	99	508604	2.00	2.00	
* 2 Acenaphthene-d10	164	6.104	6.109	-0.005	93	288539	2.00	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	501251	2.00	2.00	
* 4 Chrysene-d12	240	10.656	10.655	0.001	99	474254	2.00	2.00	
* 5 Perylene-d12	264	12.265	12.265	0.000	98	381721	2.00	2.00	
$ 6 o-Terphenyl	230	8.211	8.211	0.000	90	254436	2.00	1.70	

Reagents:

SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Nov-2014 10:08:46 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1713.D

Injection Date: 18-Nov-2014 15:29:30 Instrument ID: CMSY Operator ID:

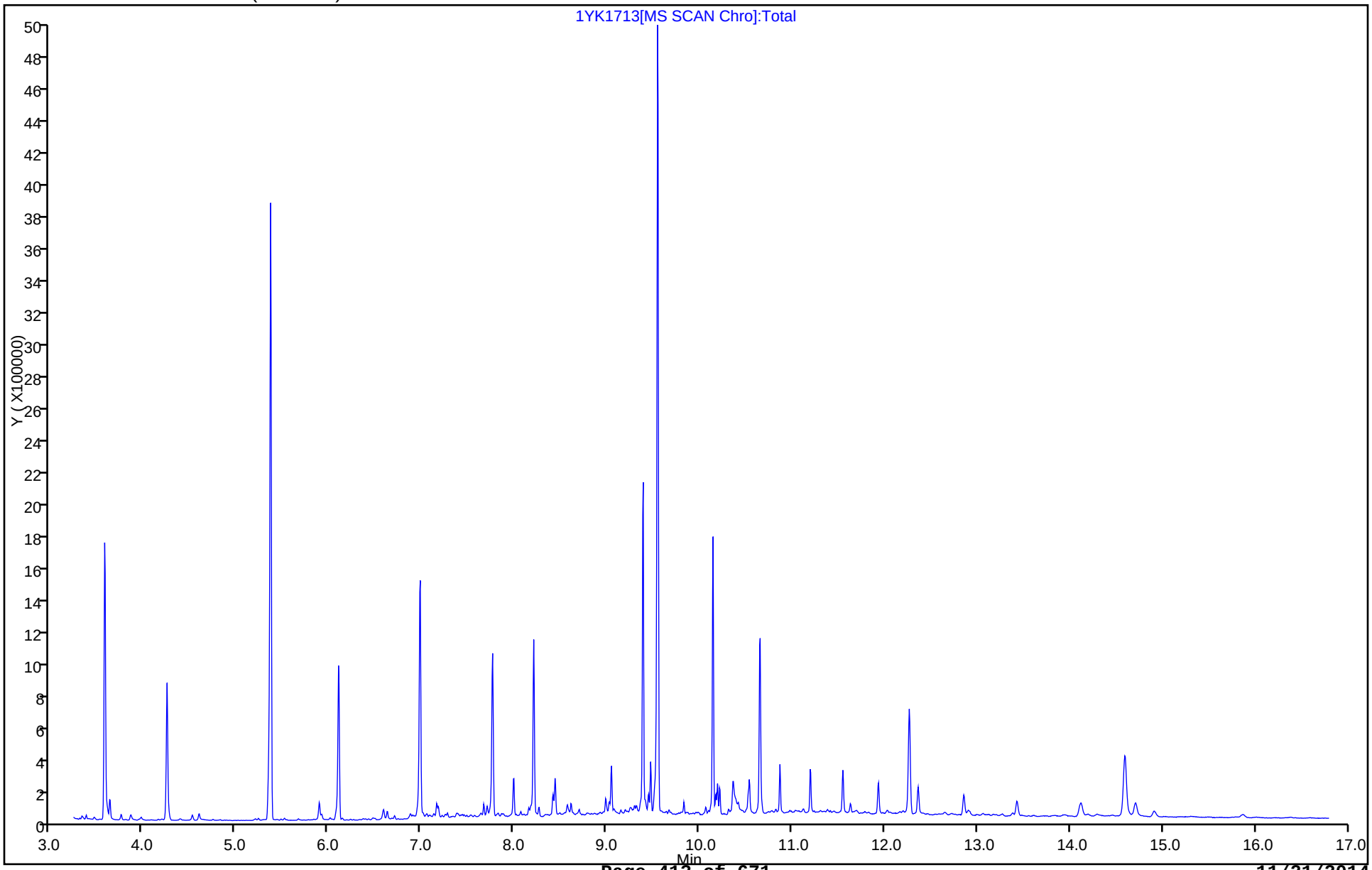
Lims ID: MB 680-358328/18-A Worklist Smp#: 13

Client ID:

Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 13

Method: 8270D_LLPAH_MSY Limit Group: 8270D_LL_PAH

Column: Restek RXi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name:	TestAmerica Savannah	Job No.:	680-107159-1
SDG No.:	680-107159-1		
Client Sample ID:		Lab Sample ID:	LCS 680-358328/19-A
Matrix:	Solid	Lab File ID:	1YK1714.D
Analysis Method:	8270D_LL_PAH	Date Collected:	
Extract. Method:	3546	Date Extracted:	11/12/2014 15:01
Sample wt/vol:	30.05(g)	Date Analyzed:	11/18/2014 15:52
Con. Extract Vol.:	1(mL)	Dilution Factor:	1
Injection Volume:	2(uL)	Level: (low/med)	Low
% Moisture:		GPC Cleanup:(Y/N)	N
Analysis Batch No.:	359245	Units:	ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	215		6.7	3.3
208-96-8	Acenaphthylene	221		6.7	3.3
120-12-7	Anthracene	227		6.7	3.3
56-55-3	Benzo[a]anthracene	266		6.7	3.3
50-32-8	Benzo[a]pyrene	264		6.7	1.2
205-99-2	Benzo[b]fluoranthene	266		6.7	3.3
191-24-2	Benzo[g,h,i]perylene	220		6.7	3.3
207-08-9	Benzo[k]fluoranthene	236		6.7	2.0
218-01-9	Chrysene	254		6.7	3.3
53-70-3	Dibenz(a,h)anthracene	242		6.7	3.3
206-44-0	Fluoranthene	263		6.7	3.3
86-73-7	Fluorene	214		6.7	3.3
193-39-5	Indeno[1,2,3-cd]pyrene	253		6.7	3.3
90-12-0	1-Methylnaphthalene	227		6.7	3.1
91-57-6	2-Methylnaphthalene	222		6.7	3.3
91-20-3	Naphthalene	214		6.7	3.3
85-01-8	Phenanthrene	234		6.7	2.4
129-00-0	Pyrene	254		6.7	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1714.D
Lims ID: LCS 680-358328/19-A
Client ID:
Sample Type: LCS
Inject. Date: 18-Nov-2014 15:52:30 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: LCS 358328/19-A
Misc. Info.: 680-0014871-014
Operator ID: Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 19-Nov-2014 08:10:37 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: webbk Date: 18-Nov-2014 16:18:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.253	4.264	-0.011	88	475745	2.00	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	81	261785	2.00	2.00	
* 3 Phenanthrene-d10	188	7.772	7.767	0.005	97	456535	2.00	2.00	
* 4 Chrysene-d12	240	10.661	10.655	0.006	76	449527	2.00	2.00	
* 5 Perylene-d12	264	12.271	12.265	0.006	97	398066	2.00	2.00	
$ 6 o-Terphenyl	230	8.211	8.211	0.000	87	226525	2.00	1.60	
7 Naphthalene	128	4.274	4.285	-0.011	99	1611653	10.0	6.44	
9 2-Methylnaphthalene	142	4.981	4.986	-0.006	79	1082612	10.0	6.68	
10 1-Methylnaphthalene	142	5.087	5.087	0.000	89	1009503	10.0	6.83	
11 1,1'-Biphenyl	154	5.478	5.478	0.000	99	1313547	10.0	6.43	
12 Acenaphthylene	152	5.954	5.949	0.005	93	1612567	10.0	6.64	
14 Acenaphthene	153	6.147	6.141	0.005	94	1058393	10.0	6.46	
15 Dibenzofuran	168	6.339	6.334	0.005	92	1424103	10.0	6.47	
16 Fluorene	166	6.719	6.713	0.006	81	1126492	10.0	6.43	
17 Phenanthrene	178	7.799	7.794	0.005	97	1778193	10.0	7.03	
18 Anthracene	178	7.858	7.853	0.005	99	1709410	10.0	6.82	
19 Fluoranthene	202	9.131	9.126	0.005	98	2066366	10.0	7.90	
20 Pyrene	202	9.377	9.372	0.005	98	2076861	10.0	7.64	
21 Benzo[a]anthracene	228	10.650	10.645	0.005	98	2002468	10.0	7.99	
22 Chrysene	228	10.693	10.682	0.011	95	1677823	10.0	7.62	
23 Benzo[b]fluoranthene	252	11.805	11.795	0.010	98	1961671	10.0	7.99	
24 Benzo[k]fluoranthene	252	11.837	11.827	0.010	99	1670906	10.0	7.11	
25 Benzo[a]pyrene	252	12.207	12.196	0.011	97	1543835	10.0	7.92	
26 Indeno[1,2,3-cd]pyrene	276	13.891	13.870	0.021	94	1478780	10.0	7.60	
27 Dibenz(a,h)anthracene	278	13.918	13.897	0.021	94	1200817	10.0	7.29	
28 Benzo[g,h,i]perylene	276	14.383	14.357	0.026	93	1222548	10.0	6.61	

Reagents:

SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Nov-2014 08:49:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1714.D

Injection Date: 18-Nov-2014 15:52:30 Instrument ID: CMSY Operator ID:

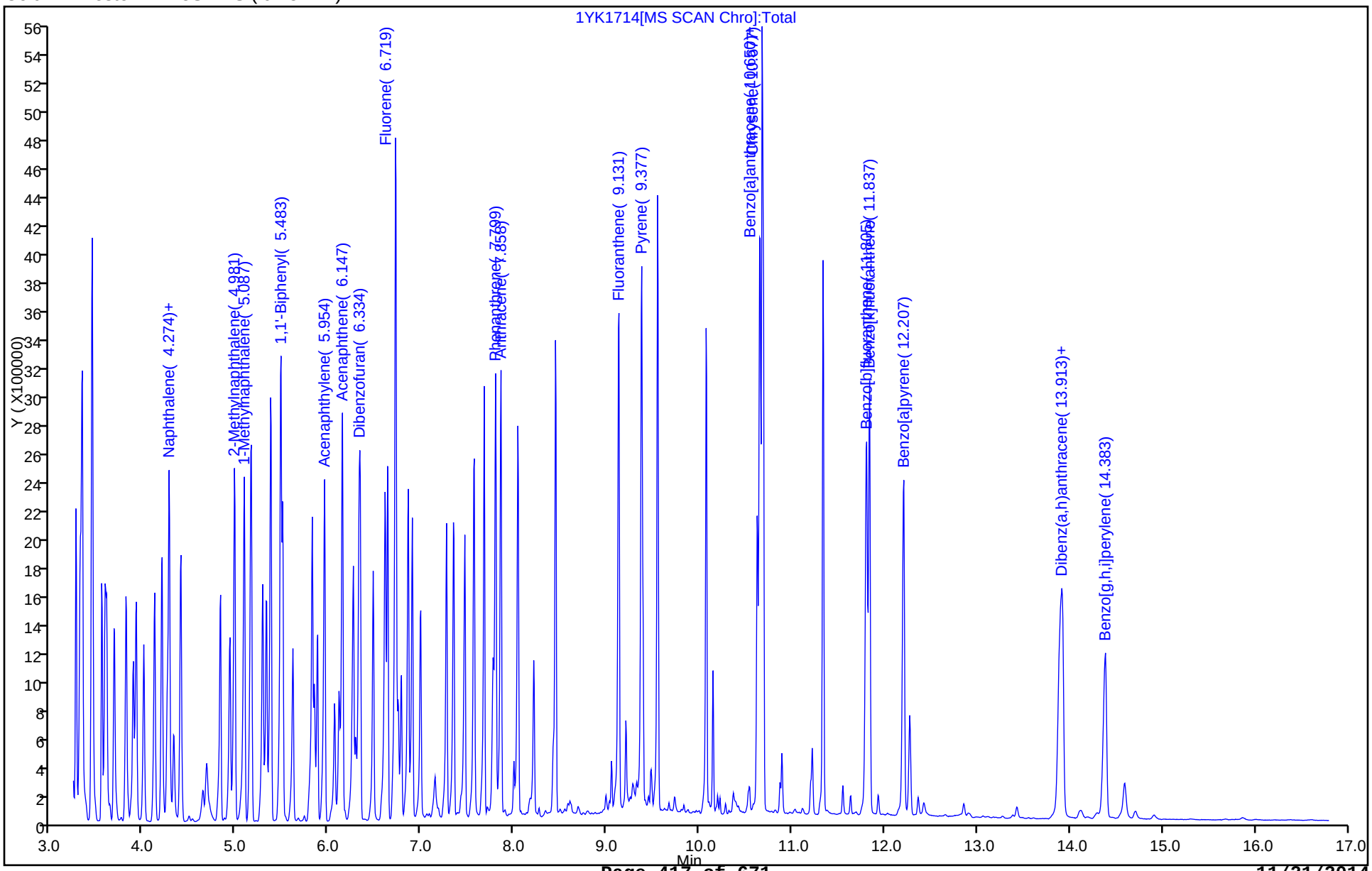
Lims ID: LCS 680-358328/19-A Worklist Smp#: 14

Client ID:

Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 14

Method: 8270D_LLPAH_MSY Limit Group: 8270D_LL_PAH

Column: Restek RXi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281C-CS18" MS | Lab Sample ID: 680-107159-12 MS

Matrix: Solid | Lab File ID: 1YK1715.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 10:50

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.01(g) | Date Analyzed: 11/18/2014 16:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	246		73	36
208-96-8	Acenaphthylene	250		73	36
120-12-7	Anthracene	261		73	36
56-55-3	Benzo[a]anthracene	354		73	36
50-32-8	Benzo[a]pyrene	352		73	13
205-99-2	Benzo[b]fluoranthene	439		73	36
191-24-2	Benzo[g,h,i]perylene	304		73	36
207-08-9	Benzo[k]fluoranthene	326		73	22
218-01-9	Chrysene	401		73	36
53-70-3	Dibenz(a,h)anthracene	254		73	36
206-44-0	Fluoranthene	399		73	36
86-73-7	Fluorene	248		73	36
193-39-5	Indeno[1,2,3-cd]pyrene	242		73	36
90-12-0	1-Methylnaphthalene	266		73	34
91-57-6	2-Methylnaphthalene	262		73	36
91-20-3	Naphthalene	250		73	36
85-01-8	Phenanthrene	322		73	26
129-00-0	Pyrene	466		73	36

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1715.D
Lims ID: 680-107159-B-12-B MS
Client ID: FM0281C-CS18"
Sample Type: MS
Inject. Date: 18-Nov-2014 16:14:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Sample Info: 107159-B-12-B MS 1:10
Misc. Info.: 680-0014871-015
Operator ID: Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 19-Nov-2014 08:10:37 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: webbk Date: 19-Nov-2014 07:44:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.264	4.264	0.000	99	518286	0.2000	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	92	275428	0.2000	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	473633	0.2000	2.00	
* 4 Chrysene-d12	240	10.656	10.655	0.001	99	356884	0.2000	2.00	
* 5 Perylene-d12	264	12.271	12.265	0.006	98	245436	0.2000	2.00	
7 Naphthalene	128	4.285	4.285	0.000	90	188113	1.00	0.6897	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	85	127272	1.00	0.7209	
10 1-Methylnaphthalene	142	5.088	5.087	0.001	89	118105	1.00	0.7337	
11 1,1'-Biphenyl	154	5.478	5.478	0.000	99	149572	1.00	0.6957	
12 Acenaphthylene	152	5.949	5.949	0.000	97	175936	1.00	0.6887	
14 Acenaphthene	153	6.141	6.141	0.000	88	117016	1.00	0.6789	
13 Benzidine_T	184	6.168	6.157	0.011	0	13591		NC	
15 Dibenzofuran	168	6.334	6.334	0.000	100	165668	1.00	0.7152	
16 Fluorene	166	6.714	6.713	0.001	83	126066	1.00	0.6844	
17 Phenanthrene	178	7.794	7.794	0.000	97	244214	1.00	0.8882	
18 Anthracene	178	7.853	7.853	0.000	99	187033	1.00	0.7196	
19 Fluoranthene	202	9.126	9.126	0.000	99	298665	1.00	1.10	
20 Pyrene	202	9.367	9.372	-0.005	97	284445	1.00	1.29	
21 Benzo[a]anthracene	228	10.645	10.645	0.000	98	194381	1.00	0.9765	
22 Chrysene	228	10.682	10.682	0.000	95	195157	1.00	1.10	
23 Benzo[b]fluoranthene	252	11.795	11.795	0.000	98	183166	1.00	1.21	
24 Benzo[k]fluoranthene	252	11.827	11.827	0.000	69	144191	1.00	0.8973	
25 Benzo[a]pyrene	252	12.196	12.196	0.000	97	116465	1.00	0.9691	
26 Indeno[1,2,3-cd]pyrene	276	13.881	13.870	0.011	98	103191	1.00	0.6680	
27 Dibenz(a,h)anthracene	278	13.908	13.897	0.011	94	71054	1.00	0.6992	
28 Benzo[g,h,i]perylene	276	14.367	14.357	0.010	90	95568	1.00	0.8386	
31 4,4'-DDD	235	6.473	6.606	-0.133	1	933		NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

7 - Failed Limit of Detection

Reagents:

SM-LLISTD_00114	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 19-Nov-2014 08:49:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1715.D

Injection Date: 18-Nov-2014 16:14:30 Instrument ID: CMSY Operator ID:

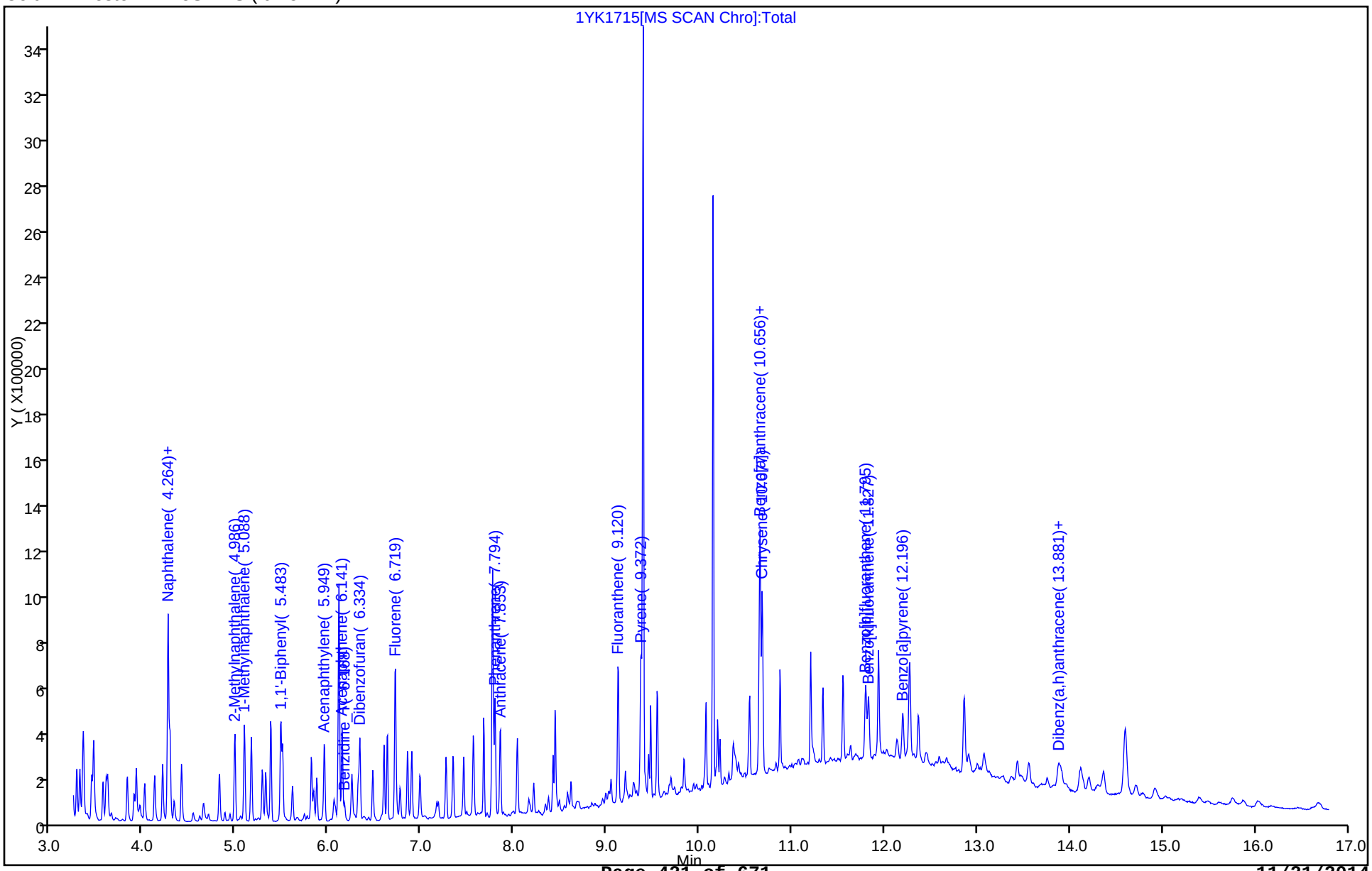
Lims ID: 680-107159-B-12-B MS Worklist Smp#: 15

Client ID: FM0281C-CS18"

Injection Vol: 2.0 ul Dil. Factor: 10.0000 ALS Bottle#: 15

Method: 8270D_LLPAH_MSY Limit Group: 8270D_LL_PAH

Column: Restek RXi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107159-1

SDG No.: 680-107159-1

Client Sample ID: FM0281C-CS18" MSD | Lab Sample ID: 680-107159-12 MSD

Matrix: Solid | Lab File ID: 1YK1716.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/07/2014 10:50

Extract. Method: 3546 | Date Extracted: 11/12/2014 15:01

Sample wt/vol: 30.01(g) | Date Analyzed: 11/18/2014 16:37

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359245 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	197		73	36
208-96-8	Acenaphthylene	196		73	36
120-12-7	Anthracene	211		73	36
56-55-3	Benzo[a]anthracene	299		73	36
50-32-8	Benzo[a]pyrene	307		73	13
205-99-2	Benzo[b]fluoranthene	382		73	36
191-24-2	Benzo[g,h,i]perylene	228		73	36
207-08-9	Benzo[k]fluoranthene	280		73	22
218-01-9	Chrysene	347		73	36
53-70-3	Dibenz(a,h)anthracene	190		73	36
206-44-0	Fluoranthene	370		73	36
86-73-7	Fluorene	203		73	36
193-39-5	Indeno[1,2,3-cd]pyrene	177		73	36
90-12-0	1-Methylnaphthalene	215		73	34
91-57-6	2-Methylnaphthalene	213		73	36
91-20-3	Naphthalene	195		73	36
85-01-8	Phenanthrene	281		73	26
129-00-0	Pyrene	384		73	36

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1716.D
Lims ID: 680-107159-B-12-C MSD
Client ID: FM0281C-CS18"
Sample Type: MSD
Inject. Date: 18-Nov-2014 16:37:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Sample Info: 107159-B-12-C MSD 1:10
Misc. Info.: 680-0014871-016
Operator ID: Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 19-Nov-2014 08:10:37 Calib Date: 18-Nov-2014 13:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1708.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: webbk Date: 19-Nov-2014 07:50:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.264	4.264	0.000	99	595860	0.2000	2.00	
* 2 Acenaphthene-d10	164	6.109	6.109	0.000	93	337852	0.2000	2.00	
* 3 Phenanthrene-d10	188	7.767	7.767	0.000	98	593809	0.2000	2.00	
* 4 Chrysene-d12	240	10.656	10.655	0.001	99	501616	0.2000	2.00	
* 5 Perylene-d12	264	12.271	12.265	0.006	99	335548	0.2000	2.00	
7 Naphthalene	128	4.285	4.285	0.000	99	168140	1.00	0.5362	
9 2-Methylnaphthalene	142	4.986	4.986	0.000	85	118999	1.00	0.5863	
10 1-Methylnaphthalene	142	5.088	5.087	0.001	92	109744	1.00	0.5930	
11 1,1'-Biphenyl	154	5.478	5.478	0.000	100	141058	1.00	0.5349	
12 Acenaphthylene	152	5.949	5.949	0.000	97	169304	1.00	0.5403	
14 Acenaphthene	153	6.141	6.141	0.000	94	114667	1.00	0.5423	
15 Dibenzofuran	168	6.334	6.334	0.000	100	159149	1.00	0.5601	
16 Fluorene	166	6.714	6.713	0.001	96	126178	1.00	0.5584	
17 Phenanthrene	178	7.794	7.794	0.000	97	267465	1.00	0.7753	
18 Anthracene	178	7.853	7.853	0.000	99	189784	1.00	0.5824	
19 Fluoranthene	202	9.126	9.126	0.000	98	347007	1.00	1.02	
20 Pyrene	202	9.372	9.372	0.000	98	329750	1.00	1.06	
21 Benzo[a]anthracene	228	10.645	10.645	0.000	98	230456	1.00	0.8237	
22 Chrysene	228	10.682	10.682	0.000	99	237392	1.00	0.9560	
23 Benzo[b]fluoranthene	252	11.795	11.795	0.000	98	217789	1.00	1.05	
24 Benzo[k]fluoranthene	252	11.827	11.827	0.000	98	169997	1.00	0.7723	
25 Benzo[a]pyrene	252	12.196	12.196	0.000	98	138864	1.00	0.8452	
26 Indeno[1,2,3-cd]pyrene	276	13.875	13.870	0.005	99	105953	1.00	0.4880	
27 Dibenz(a,h)anthracene	278	13.908	13.897	0.011	96	72949	1.00	0.5251	
28 Benzo[g,h,i]perylene	276	14.368	14.357	0.011	98	97905	1.00	0.6284	
31 4,4'-DDD	235	6.473	6.606	-0.133	54	964		NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

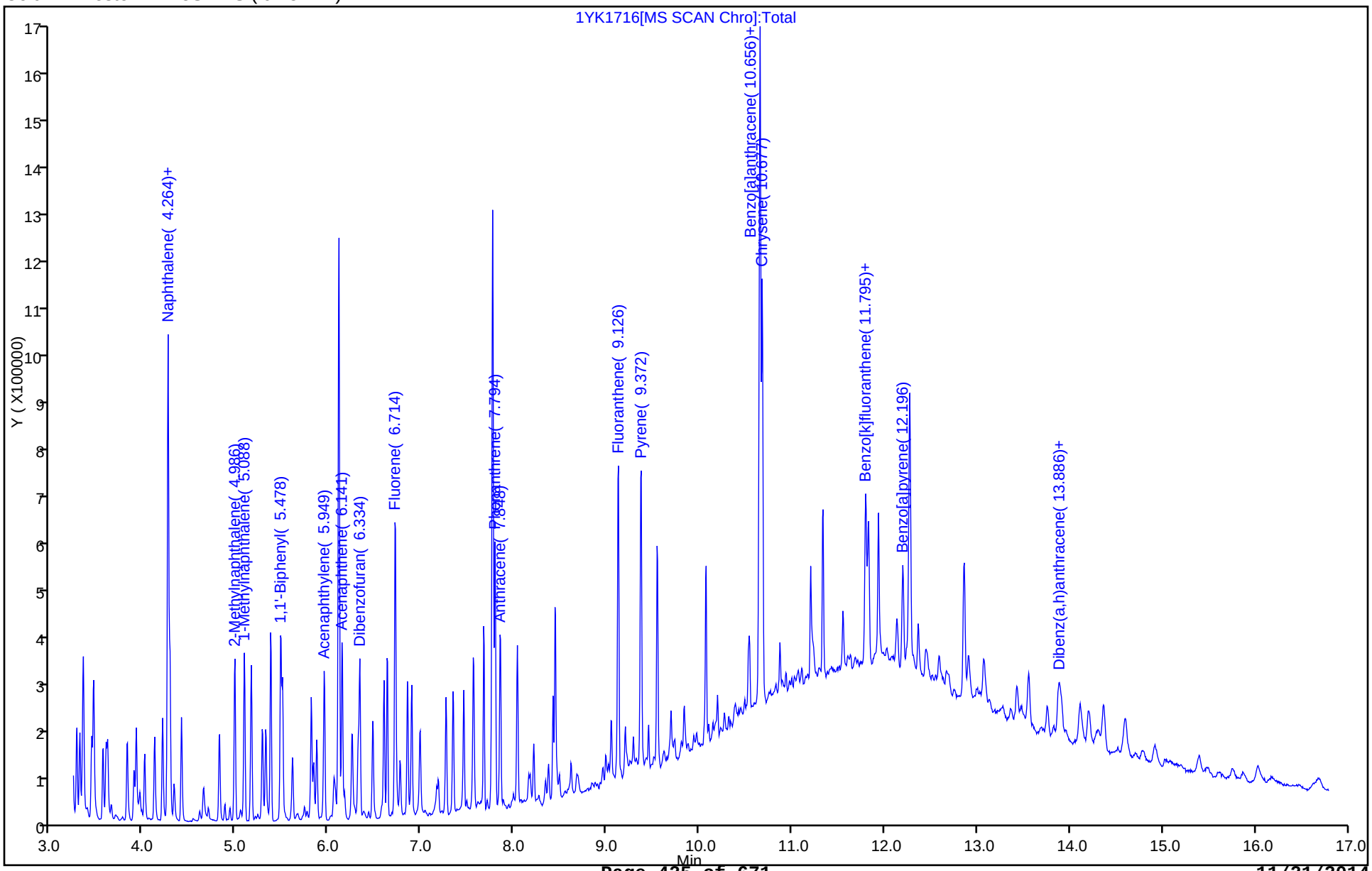
SM-LLISTD_00114	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 19-Nov-2014 08:49:57 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSY\20141118-14871.b\1YK1716.D				
Injection Date:	18-Nov-2014 16:37:30	Instrument ID:	CMSY	Operator ID:	
Lims ID:	680-107159-B-12-C MSD			Worklist Smp#:	16
Client ID:	FM0281C-CS18"				
Injection Vol:	2.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	16
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		

Column: Restek RXi-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Instrument ID: CMSK Start Date: 11/19/2014 12:15

Analysis Batch Number: 359503 End Date: 11/19/2014 21:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 680-359503/1		11/19/2014 12:15	1	2KK1901.D	RXi- 5Sil MS 0.25(mm)
ICIS 680-359503/2		11/19/2014 12:29	1	2KK1902.D	RXi- 5Sil MS 0.25(mm)
IC 680-359503/3		11/19/2014 12:51	1	2KK1903.D	RXi- 5Sil MS 0.25(mm)
IC 680-359503/4		11/19/2014 13:14	1	2KK1904.D	RXi- 5Sil MS 0.25(mm)
IC 680-359503/5		11/19/2014 13:36	1	2KK1905.D	RXi- 5Sil MS 0.25(mm)
IC 680-359503/6		11/19/2014 13:59	1	2KK1906.D	RXi- 5Sil MS 0.25(mm)
IC 680-359503/7		11/19/2014 14:22	1	2KK1907.D	RXi- 5Sil MS 0.25(mm)
IC 680-359503/8		11/19/2014 14:45	1	2KK1908.D	RXi- 5Sil MS 0.25(mm)
ICV 680-359503/9		11/19/2014 15:07	1	2KK1909.D	RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/19/2014 15:30	1		RXi- 5Sil MS 0.25(mm)
680-107159-1	FM0281A-CS6"	11/19/2014 15:53	20	2KK1911.D	RXi- 5Sil MS 0.25(mm)
680-107159-2	FM0281A-CS12"	11/19/2014 16:16	20	2KK1912.D	RXi- 5Sil MS 0.25(mm)
680-107159-6	FM0281D-CS6"	11/19/2014 17:01	50	2KK1914.D	RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/19/2014 17:46	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/19/2014 18:09	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/19/2014 18:32	10		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/19/2014 18:55	10		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/19/2014 19:17	10		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/19/2014 19:40	10		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/19/2014 20:03	10		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/19/2014 20:25	10		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/19/2014 20:48	10		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/19/2014 21:11	10		RXi- 5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Instrument ID: CMSY Start Date: 11/18/2014 10:58

Analysis Batch Number: 359245 End Date: 11/18/2014 22:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 680-359245/1		11/18/2014 10:58	1	1YK1701.D	RXi- 5Sil MS 0.25(mm)
ICIS 680-359245/2		11/18/2014 11:20	1	1YK1702.D	RXi- 5Sil MS 0.25(mm)
IC 680-359245/3		11/18/2014 11:42	1	1YK1703.D	RXi- 5Sil MS 0.25(mm)
IC 680-359245/4		11/18/2014 12:04	1	1YK1704.D	RXi- 5Sil MS 0.25(mm)
IC 680-359245/5		11/18/2014 12:26	1	1YK1705.D	RXi- 5Sil MS 0.25(mm)
IC 680-359245/6		11/18/2014 12:48	1	1YK1706.D	RXi- 5Sil MS 0.25(mm)
IC 680-359245/7		11/18/2014 13:10	1	1YK1707.D	RXi- 5Sil MS 0.25(mm)
IC 680-359245/8		11/18/2014 13:33	1	1YK1708.D	RXi- 5Sil MS 0.25(mm)
ICV 680-359245/9		11/18/2014 13:56	1	1YK1709.D	RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/18/2014 14:19	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/18/2014 14:42	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/18/2014 15:06	1		RXi- 5Sil MS 0.25(mm)
MB 680-358328/18-A		11/18/2014 15:29	1	1YK1713.D	RXi- 5Sil MS 0.25(mm)
LCS 680-358328/19-A		11/18/2014 15:52	1	1YK1714.D	RXi- 5Sil MS 0.25(mm)
680-107159-12 MS	FM0281C-CS18" MS	11/18/2014 16:14	10	1YK1715.D	RXi- 5Sil MS 0.25(mm)
680-107159-12 MSD	FM0281C-CS18" MSD	11/18/2014 16:37	10	1YK1716.D	RXi- 5Sil MS 0.25(mm)
680-107159-12	FM0281C-CS18"	11/18/2014 16:59	10	1YK1717.D	RXi- 5Sil MS 0.25(mm)
680-107159-3	FM0281A-CS18"	11/18/2014 18:07	10	1YK1720.D	RXi- 5Sil MS 0.25(mm)
680-107159-4	FM0281A-CS24"	11/18/2014 18:29	1	1YK1721.D	RXi- 5Sil MS 0.25(mm)
680-107159-7	FM0281D-CS12"	11/18/2014 19:36	10	1YK1724.D	RXi- 5Sil MS 0.25(mm)
680-107159-8	FM0281D-CS18"	11/18/2014 19:58	10	1YK1725.D	RXi- 5Sil MS 0.25(mm)
680-107159-9	FM0281D-CS24"	11/18/2014 20:20	1	1YK1726.D	RXi- 5Sil MS 0.25(mm)
680-107159-10	FM0281C-CS6"	11/18/2014 20:43	10	1YK1727.D	RXi- 5Sil MS 0.25(mm)
680-107159-11	FM0281C-CS12"	11/18/2014 21:05	10	1YK1728.D	RXi- 5Sil MS 0.25(mm)
680-107159-13	FM0281G-CS6"	11/18/2014 21:27	10	1YK1729.D	RXi- 5Sil MS 0.25(mm)
680-107159-14	FM0281G-CS12"	11/18/2014 21:49	10	1YK1730.D	RXi- 5Sil MS 0.25(mm)
680-107159-15	FM0281G-CS18"	11/18/2014 22:11	10	1YK1731.D	RXi- 5Sil MS 0.25(mm)
680-107159-16	FM0281G-CS24"	11/18/2014 22:34	1	1YK1732.D	RXi- 5Sil MS 0.25(mm)
680-107159-17	FM0281G-CSD12"	11/18/2014 22:57	10	1YK1733.D	RXi- 5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Instrument ID: CMSY Start Date: 11/20/2014 14:48

Analysis Batch Number: 359719 End Date: 11/20/2014 22:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 680-359719/2		11/20/2014 14:48	1	2YK2002.D	RXi- 5Sil MS 0.25(mm)
CCVIS 680-359719/3		11/20/2014 15:07	1	2YK2003.D	RXi- 5Sil MS 0.25(mm)
RL 680-359719/4		11/20/2014 15:29	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/20/2014 15:51	1		RXi- 5Sil MS 0.25(mm)
680-107159-5	FM0281A-CSD6"	11/20/2014 16:13	500	2YK2006.D	RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/20/2014 16:36	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/20/2014 16:58	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/20/2014 17:20	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/20/2014 17:42	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/20/2014 18:04	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/20/2014 18:26	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/20/2014 18:48	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/20/2014 19:10	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/20/2014 19:32	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/20/2014 19:54	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/20/2014 20:17	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/20/2014 20:39	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/20/2014 21:01	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/20/2014 21:23	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/20/2014 21:45	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/20/2014 22:07	1		RXi- 5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Batch Number: 358328 Batch Start Date: 11/12/14 15:01 Batch Analyst: Vasquez, Juana M

Batch Method: 3546 Batch End Date: 11/12/14 15:31

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX8270SPKL1 00017	LLBNAwkSUR 00080	AnalysisComment	
680-107159-B-1	FM0281A-CS6"	3546, 8270D_LL_PAH	T	30.07 g	1 mL		1 mL		
680-107159-B-2	FM0281A-CS12"	3546, 8270D_LL_PAH	T	30.07 g	1 mL		1 mL		
680-107159-B-3	FM0281A-CS18"	3546, 8270D_LL_PAH	T	30.11 g	1 mL		1 mL		
680-107159-B-4	FM0281A-CS24"	3546, 8270D_LL_PAH	T	29.99 g	1 mL		1 mL		
680-107159-B-5	FM0281A-CSD6"	3546, 8270D_LL_PAH	T	30.01 g	1 mL		1 mL		
680-107159-B-6	FM0281D-CS6"	3546, 8270D_LL_PAH	T	30.03 g	1 mL		1 mL		
680-107159-B-7	FM0281D-CS12"	3546, 8270D_LL_PAH	T	30.09 g	1 mL		1 mL		
680-107159-B-8	FM0281D-CS18"	3546, 8270D_LL_PAH	T	30.07 g	1 mL		1 mL		
680-107159-B-9	FM0281D-CS24"	3546, 8270D_LL_PAH	T	30.15 g	1 mL		1 mL		
680-107159-B-10	FM0281C-CS6"	3546, 8270D_LL_PAH	T	30.00 g	1 mL		1 mL		
680-107159-B-11	FM0281C-CS12"	3546, 8270D_LL_PAH	T	29.96 g	1 mL		1 mL		
680-107159-B-12	FM0281C-CS18"	3546, 8270D_LL_PAH	T	30.03 g	1 mL		1 mL		
680-107159-B-13	FM0281G-CS6"	3546, 8270D_LL_PAH	T	30.07 g	1 mL		1 mL		
680-107159-B-14	FM0281G-CS12"	3546, 8270D_LL_PAH	T	30.03 g	1 mL		1 mL		
680-107159-B-15	FM0281G-CS18"	3546, 8270D_LL_PAH	T	30.07 g	1 mL		1 mL		
680-107159-B-16	FM0281G-CS24"	3546, 8270D_LL_PAH	T	30.13 g	1 mL		1 mL		
680-107159-B-17	FM0281G-CSD12"	3546, 8270D_LL_PAH	T	30.07 g	1 mL		1 mL		
MB 680-358328/18		3546, 8270D_LL_PAH		30.06 g	1 mL		1 mL		
LCS 680-358328/19		3546, 8270D_LL_PAH		30.05 g	1 mL	100 uL	1 mL	8270LLSPK	
680-107159-B-12 MS	FM0281C-CS18"	3546, 8270D_LL_PAH	T	30.01 g	1 mL	100 uL	1 mL	8270LLSPK	
680-107159-B-12 MSD	FM0281C-CS18"	3546, 8270D_LL_PAH	T	30.01 g	1 mL	100 uL	1 mL	8270LLSPK	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Batch Number: 358328 Batch Start Date: 11/12/14 15:01 Batch Analyst: Vasquez, Juana M

Batch Method: 3546 Batch End Date: 11/12/14 15:31

Batch Notes	
Balance ID	30
Batch Comment	8270LL BOX LL222
Concentration End Time	1655
Concentration Start Time	1558
Person's name who did the concentration	JMK
Exchange Solvent Lot #	3839562
Exchange Solvent Name	MECL2
Filter Paper Lot Number	3835800
Final Concentrator Volume	1 mL
MeCl2/Acetone Lot #	3787739
Microwave Oven ID	1
Microwave Start Time	1501
Microwave Stop Time	1531
Na2SO4 Lot Number	3841039
Ottawa Sand Lot #	3812074
Person's name who did the prep	JV
Person who performed Spike	JV
Person who witnessed spiking	JMK

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.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Savannah Job Number: 680-107159-1

SDG No.: 680-107159-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
FM0281A-CS6"	680-107159-1
FM0281A-CS12"	680-107159-2
FM0281A-CS18"	680-107159-3
FM0281A-CS24"	680-107159-4
FM0281A-CSD6"	680-107159-5
FM0281D-CS6"	680-107159-6
FM0281D-CS12"	680-107159-7
FM0281D-CS18"	680-107159-8
FM0281D-CS24"	680-107159-9
FM0281C-CS6"	680-107159-10
FM0281C-CS12"	680-107159-11
FM0281C-CS18"	680-107159-12
FM0281G-CS6"	680-107159-13
FM0281G-CS12"	680-107159-14
FM0281G-CS18"	680-107159-15
FM0281G-CS24"	680-107159-16
FM0281G-CSD12"	680-107159-17

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281A-CS6"

Lab Sample ID: 680-107159-1

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 08:31

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 88.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	12000	21	10	mg/Kg			1	6010C
7440-38-2	Arsenic	31	2.1	0.61	mg/Kg			1	6010C
7439-89-6	Iron	47000	21	7.3	mg/Kg			1	6010C
7439-92-1	Lead	130	1.0	0.55	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281A-CS12"

Lab Sample ID: 680-107159-2

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 08:41

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 86.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	12000	21	11	mg/Kg			1	6010C
7440-38-2	Arsenic	29	2.1	0.63	mg/Kg			1	6010C
7439-89-6	Iron	35000	21	7.5	mg/Kg			1	6010C
7439-92-1	Lead	64	1.1	0.57	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281A-CS18"

Lab Sample ID: 680-107159-3

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 08:51

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 72.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	11000	24	12	mg/Kg			1	6010C
7440-38-2	Arsenic	16	2.4	0.71	mg/Kg			1	6010C
7439-89-6	Iron	30000	24	8.4	mg/Kg			1	6010C
7439-92-1	Lead	38	1.2	0.63	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281A-CS24"

Lab Sample ID: 680-107159-4

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 09:01

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 84.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	13000	23	11	mg/Kg			1	6010C
7440-38-2	Arsenic	23	2.3	0.67	mg/Kg			1	6010C
7439-89-6	Iron	59000	23	8.0	mg/Kg			1	6010C
7439-92-1	Lead	11	1.1	0.61	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281A-CSD6"

Lab Sample ID: 680-107159-5

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 08:36

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 85.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	12000	21	11	mg/Kg			1	6010C
7440-38-2	Arsenic	38	2.1	0.63	mg/Kg			1	6010C
7439-89-6	Iron	39000	21	7.5	mg/Kg			1	6010C
7439-92-1	Lead	240	1.1	0.57	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281D-CS6"

Lab Sample ID: 680-107159-6

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 09:30

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 83.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	13000	23	12	mg/Kg			1	6010C
7440-38-2	Arsenic	29	2.3	0.69	mg/Kg			1	6010C
7439-89-6	Iron	39000	23	8.1	mg/Kg			1	6010C
7439-92-1	Lead	99	1.2	0.62	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281D-CS12"

Lab Sample ID: 680-107159-7

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 09:41

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 86.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	12000	23	12	mg/Kg			1	6010C
7440-38-2	Arsenic	21	2.3	0.68	mg/Kg			1	6010C
7439-89-6	Iron	38000	23	8.1	mg/Kg			1	6010C
7439-92-1	Lead	38	1.2	0.62	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281D-CS18"

Lab Sample ID: 680-107159-8

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 09:50

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 86.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	13000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	16	2.2	0.66	mg/Kg			1	6010C
7439-89-6	Iron	31000	22	7.9	mg/Kg			1	6010C
7439-92-1	Lead	30	1.1	0.59	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281D-CS24"

Lab Sample ID: 680-107159-9

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 09:59

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 85.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	11000	24	12	mg/Kg			1	6010C
7440-38-2	Arsenic	9.7	2.4	0.69	mg/Kg			1	6010C
7439-89-6	Iron	24000	24	8.2	mg/Kg			1	6010C
7439-92-1	Lead	23	1.2	0.62	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281C-CS6"

Lab Sample ID: 680-107159-10

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 10:30

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 91.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	5700	20	10	mg/Kg			1	6010C
7440-38-2	Arsenic	31	2.0	0.59	mg/Kg			1	6010C
7439-89-6	Iron	46000	20	7.0	mg/Kg			1	6010C
7439-92-1	Lead	220	1.0	0.53	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281C-CS12"

Lab Sample ID: 680-107159-11

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 10:40

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 90.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	6500	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	17	2.2	0.64	mg/Kg			1	6010C
7439-89-6	Iron	32000	22	7.6	mg/Kg			1	6010C
7439-92-1	Lead	150	1.1	0.57	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281C-CS18"

Lab Sample ID: 680-107159-12

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 10:50

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 91.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	5100	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	11	2.2	0.64	mg/Kg			1	6010C
7439-89-6	Iron	21000	22	7.5	mg/Kg			1	6010C
7439-92-1	Lead	110	1.1	0.57	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281G-CS6"

Lab Sample ID: 680-107159-13

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 11:25

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 86.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	15000	23	11	mg/Kg			1	6010C
7440-38-2	Arsenic	23	2.3	0.67	mg/Kg			1	6010C
7439-89-6	Iron	46000	23	7.9	mg/Kg			1	6010C
7439-92-1	Lead	200	1.1	0.60	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281G-CS12"

Lab Sample ID: 680-107159-14

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 11:35

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 88.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	13000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	14	2.2	0.64	mg/Kg			1	6010C
7439-89-6	Iron	23000	22	7.6	mg/Kg			1	6010C
7439-92-1	Lead	120	1.1	0.58	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281G-CS18"

Lab Sample ID: 680-107159-15

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 11:45

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 81.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	13000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	13	2.2	0.64	mg/Kg			1	6010C
7439-89-6	Iron	22000	22	7.6	mg/Kg			1	6010C
7439-92-1	Lead	87	1.1	0.58	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281G-CS24"

Lab Sample ID: 680-107159-16

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 11:55

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 91.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	8800	20	10	mg/Kg			1	6010C
7440-38-2	Arsenic	8.7	2.0	0.60	mg/Kg			1	6010C
7439-89-6	Iron	15000	20	7.1	mg/Kg			1	6010C
7439-92-1	Lead	61	1.0	0.54	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FM0281G-CSD12"

Lab Sample ID: 680-107159-17

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG ID.: 680-107159-1

Matrix: Solid

Date Sampled: 11/07/2014 11:40

Reporting Basis: DRY

Date Received: 11/12/2014 09:34

% Solids: 83.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	12000	23	12	mg/Kg			1	6010C
7440-38-2	Arsenic	13	2.3	0.69	mg/Kg			1	6010C
7439-89-6	Iron	21000	23	8.2	mg/Kg			1	6010C
7439-92-1	Lead	110	1.2	0.62	mg/Kg			1	6010C

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

ICV Source: P_ICV_wk_00229 Concentration Units: ug/L

CCV Source: P_CCV_wk_00128

Analyte	ICV 680-359069/4 11/14/2014 15:14				CCV 680-359069/12 11/14/2014 15:50				CCV 680-359069/36 11/14/2014 17:38			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	995		1000	100	4860		5000	97	4850		5000	97
Arsenic	961		1000	96	470		500	94	462		500	92
Iron	1000		1000	100	4940		5000	99	4910		5000	98
Lead	1020		1000	102	498		500	100	485		500	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

ICV Source: P_ICV_wk_00229 Concentration Units: ug/L

CCV Source: P_CCV_wk_00128

Analyte	CCV 680-359069/48 11/14/2014 18:29				CCV 680-359069/60 11/14/2014 19:21				CCV 680-359069/69 11/14/2014 19:59			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	4800		5000	96	4850		5000	97	4850		5000	97
Arsenic	460		500	92	463		500	93	462		500	92
Iron	4900		5000	98	4950		5000	99	4920		5000	98
Lead	483		500	97	483		500	97	479		500	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Method: 6010C Instrument ID: ICPE

Lab Sample ID: CRI 680-359069/6 Concentration Units: ug/L

CRQL Check Standard Source: P_RL_Int_00036

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	200	198	J	99	70-130
Arsenic	20.0	20.6		103	70-130
Iron	50.0	200	U	100	70-130
Lead	10.0	11.8		118	70-130

Lab Sample ID: CRI 680-359069/101 Concentration Units: ug/L

CRQL Check Standard Source: P_RL_Int_00036

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	200	206		103	70-130
Arsenic	20.0	19.0	J	95	70-130
Iron	50.0	200	U	111	70-130
Lead	10.0	9.55	J	96	70-130

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Concentration Units: ug/L

Analyte	RL	ICBIS 680-359069/5 11/14/2014 15:19		CCB 680-359069/13 11/14/2014 15:54		CCB 680-359069/37 11/14/2014 17:42		CCB 680-359069/49 11/14/2014 18:34	
		Found	C	Found	C	Found	C	Found	C
Aluminum	200	200	U	200	U	200	U	200	U
Arsenic	20	20	U	20	U	20	U	20	U
Iron	200	200	U	200	U	200	U	200	U
Lead	10	10	U	10	U	10	U	10	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Concentration Units: ug/L

Analyte	RL	CCB 680-359069/61 11/14/2014 19:25		CCB 680-359069/70 11/14/2014 20:03					
		Found	C	Found	C	Found	C	Found	C
Aluminum	200	200	U	200	U				
Arsenic	20	20	U	20	U				
Iron	200	200	U	200	U				
Lead	10	10	U	10	U				

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Concentration Units: mg/Kg Lab Sample ID: MB 680-358466/1-A

Instrument Code: ICPE Batch No.: 359069

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	19	U		6010C
7440-38-2	Arsenic	1.9	U		6010C
7439-89-6	Iron	19	U		6010C
7439-92-1	Lead	0.93	U		6010C

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Lab Sample ID: ICSA 680-359069/7 Instrument ID: ICPE

Lab File ID: E11142014.csv ICS Source: P_ICSA_wk_00038

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500000**	**539580**	**108**
Arsenic		**3.37**	
Iron	**200000**	**189481**	**95**
Lead		**-0.522**	
Antimony		*1.000*	
Barium		*3.69*	
Beryllium		*-0.147*	
Boron		*8.13*	
Cadmium		*1.37*	
Calcium	*500000*	*494012*	*99*
Chromium		*0.270*	
Cobalt		*-0.441*	
Copper		*1.70*	
Magnesium	*500000*	*516955*	*103*
Manganese		*2.76*	
Molybdenum		*0.648*	
Nickel		*1.11*	
Potassium		*2.35*	
Selenium		*5.12*	
Silver		*0.432*	
Sodium		*-433*	
Strontium		*2.10*	
Thallium		*-2.96*	
Tin		*-0.309*	
Titanium		*0.870*	
Vanadium		*-0.302*	
Zinc		*11.0*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Lab Sample ID: ICSAB 680-359069/8 Instrument ID: ICPE

Lab File ID: E11142014.csv ICS Source: P_ICSAB_wk_00053

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500000**	**543430**	**109**
Arsenic	**100**	**108**	**108**
Iron	**200000**	**189747**	**95**
Lead	**50.0**	**42.5**	**85**
Antimony	*600*	*620*	*103*
Barium	*500*	*504*	*101*
Beryllium	*500*	*478*	*96*
Boron		*3.09*	
Cadmium	*1000*	*938*	*94*
Calcium	*500000*	*489634*	*98*
Chromium	*500*	*495*	*99*
Cobalt	*500*	*473*	*95*
Copper	*500*	*566*	*113*
Magnesium	*500000*	*519380*	*104*
Manganese	*500*	*509*	*102*
Molybdenum	*1000*	*996*	*100*
Nickel	*1000*	*922*	*92*
Potassium		*9.09*	
Selenium	*50.0*	*51.5*	*103*
Silver	*200*	*223*	*112*
Sodium		*-510*	
Strontium		*-12.2*	
Thallium	*100*	*90.9*	*91*
Tin	*1000*	*992*	*99*
Titanium		*2.54*	
Vanadium	*500*	*484*	*97*
Zinc	*1000*	*934*	*93*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: FM0281C-CS18" MS
Lab ID: 680-107159-12 MS
Lab Name: TestAmerica Savannah
Job No.: 680-107159-1
SDG No.: 680-107159-1
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 91.9

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	6280		5100		528	216	75-125	4	6010C
Arsenic	20.2		11		10.6	84	75-125		6010C
Iron	19000		21000		528	-290	75-125	4	6010C
Lead	153		110		52.8	89	75-125		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: FM0281C-CS18" MSD

Lab ID: 680-107159-12 MSD

Lab Name: TestAmerica Savannah

Job No.: 680-107159-1

SDG No.: 680-107159-1

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 91.9

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	6330		534	223	75-125	1	20	4	6010C
Arsenic	27.7		10.7	154	75-125	31	20	F1 F2	6010C
Iron	27500		534	1305	75-125	37	20	4 F2	6010C
Lead	158		53.4	99	75-125	4	20		6010C

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: FM0281C-CS18" PDS
Lab ID: 680-107159-12 PDS
Lab Name: TestAmerica Savannah
Job No.: 680-107159-1
SDG No.: 680-107159-1
Matrix: Solid
Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	5220		5100		108	NC	80-120		6010C
Arsenic	22.4		11		10.8	103	80-120		6010C
Iron	21300		21000		1080	NC	80-120		6010C
Lead	114		110		10.8	85	80-120		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 680-358466/2-A

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

Sample Matrix: Solid LCS Source: MS_LCS1_WK_00015

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	442	427		96	80	120		6010C
Arsenic	8.85	8.55		97	80	120		6010C
Iron	442	430		97	80	120		6010C
Lead	44.2	42.6		96	80	120		6010C

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 680-107159-12

SDG No: 680-107159-1

Lab Name: TestAmerica Savannah Job No: 680-107159-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	5100		5590		8.8		6010C
Arsenic	11		13.8		NC		6010C
Iron	21000		22800		11	V	6010C
Lead	110		117		11	V	6010C

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-107159-1

SDG Number: 680-107159-1

Matrix: Solid Instrument ID: ICPE

Method: 6010C MDL Date: 06/02/2009 00:00

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Aluminum		20	10
Arsenic		2	0.59
Iron		20	7
Lead		1	0.53

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-107159-1

SDG Number: 680-107159-1

Matrix: Solid Instrument ID: ICPE

Method: 6010C XMDL Date: 06/02/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum		200	100
Arsenic		20	5.9
Iron		200	70
Lead		10	5.3

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-107159-1

SDG No.: 680-107159-1

ICP-AES Instrument ID: ICPE Date: 11/14/2014

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Aluminum	308.215									-0.001000			0.000016		
Antimony	206.834						0.000900				0.009000		0.000013		
Arsenic	188.980												-0.000010		
Barium	389.178												0.000035		0.000092
Beryllium	313.042														
Boron	249.678												-0.000141		
Cadmium	226.502												0.000089		
Calcium	370.602												-0.003690		
Chromium	267.716								-0.000200				0.000009		
Cobalt	228.615										0.000200		0.000006		
Copper	324.754												0.000006		
Iron	271.441									0.072100	0.001160				
Lead	220.353		-0.000009							-0.000200	0.000520		0.000043		
Magnesium	279.078		-0.000142												
Manganese	257.610												0.000014		0.000035
Molybdenum	202.032												-0.000007		
Nickel	231.604									-0.000800			0.000028		
Potassium	766.491														
Selenium	196.026												0.000020		
Silver	328.068												-0.000002		
Sodium	330.237												-0.005002		
Strontium	216.596							0.000029					0.000113		
Thallium	190.794									0.002530			-0.000145		
Tin	189.925														
Titanium	334.941														0.000006
Vanadium	292.401										-0.001640		0.000014		
Zinc	206.200										-0.001860		-0.000033		

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-107159-1

SDG No.: 680-107159-1

ICP-AES Instrument ID: ICPE Date: 11/14/2014

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn	
Aluminum	308.215		0.003600										-0.019788		
Antimony	206.834		-0.012400						0.000200						
Arsenic	188.980		-0.000430												
Barium	389.178		0.000218										0.000095		
Beryllium	313.042		-0.000082										0.000030		
Boron	249.678						0.000900								
Cadmium	226.502										-0.000040				
Calcium	370.602	0.008900									0.155000		0.003040		
Chromium	267.716	0.000090									0.000040		-0.000200		
Cobalt	228.615		-0.002400						-0.000060		0.001850				
Copper	324.754		0.000550										-0.000200		
Iron	271.441		0.000760										0.004220		
Lead	220.353	0.000130	-0.000970								-0.000325				
Magnesium	279.078	-0.007600													
Manganese	257.610														
Molybdenum	202.032												-0.000160		
Nickel	231.604														
Potassium	766.491														
Selenium	196.026	0.000500													
Silver	328.068	0.000061								-0.000400			0.000028		
Sodium	330.237										-0.000825			-0.435620	
Strontium	216.596		-0.001000		-0.002275										
Thallium	190.794	-0.000466	-0.003133										0.001500		
Tin	189.925														
Titanium	334.941														
Vanadium	292.401		-0.007430								0.000275				
Zinc	206.200														

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Savannah Job No: 680-107159-1

SDG No.: 680-107159-1

Instrument ID: ICPE Date: 02/27/2012 11:40

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Aluminum		720000	6010C
Arsenic		18000	6010C
Iron		900000	6010C
Lead		18000	6010C

FORM XI - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-358466/1-A	11/13/2014 09:36	358466	1.07		100
LCS 680-358466/2-A	11/13/2014 09:36	358466	1.13		100
680-107159-12	11/13/2014 09:36	358466	1.01		100
680-107159-12 MS	11/13/2014 09:36	358466	1.03		100
680-107159-12 MSD	11/13/2014 09:36	358466	1.02		100
680-107159-1	11/13/2014 09:36	358466	1.09		100
680-107159-2	11/13/2014 09:36	358466	1.08		100
680-107159-3	11/13/2014 09:36	358466	1.16		100
680-107159-4	11/13/2014 09:36	358466	1.03		100
680-107159-5	11/13/2014 09:36	358466	1.09		100
680-107159-6	11/13/2014 09:36	358466	1.03		100
680-107159-7	11/13/2014 09:36	358466	1.00		100
680-107159-8	11/13/2014 09:36	358466	1.03		100
680-107159-9	11/13/2014 09:36	358466	1.00		100
680-107159-10	11/13/2014 09:36	358466	1.10		100
680-107159-11	11/13/2014 09:36	358466	1.02		100
680-107159-13	11/13/2014 09:36	358466	1.02		100
680-107159-14	11/13/2014 09:36	358466	1.04		100
680-107159-15	11/13/2014 09:36	358466	1.13		100
680-107159-16	11/13/2014 09:36	358466	1.08		100
680-107159-17	11/13/2014 09:36	358466	1.03		100

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Instrument ID: ICPE Method: 6010C

Start Date: 11/14/2014 15:02 End Date: 11/15/2014 02:54

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	As	Fe	Pb																
ZZZZZZ			15:02																				
ZZZZZZ			15:06																				
ZZZZZZ			15:10																				
ICV 680-359069/4	1		15:14	X	X	X	X																
ICBIS 680-359069/5	1		15:19	X	X	X	X																
CRI 680-359069/6	1		15:23	X	X	X	X																
ICSA 680-359069/7	1		15:28	X	X	X	X																
ICSAB 680-359069/8	1		15:33	X	X	X	X																
ZZZZZZ			15:37																				
ZZZZZZ			15:41																				
ZZZZZZ			15:46																				
CCV 680-359069/12	1		15:50	X	X	X	X																
CCB 680-359069/13	1		15:54	X	X	X	X																
ZZZZZZ			15:58																				
ZZZZZZ			16:03																				
ZZZZZZ			16:07																				
ZZZZZZ			16:11																				
ZZZZZZ			16:15																				
ZZZZZZ			16:20																				
ZZZZZZ			16:24																				
ZZZZZZ			16:28																				
ZZZZZZ			16:33																				
ZZZZZZ			16:37																				
CCV 680-359069/24			16:41																				
CCB 680-359069/25			16:45																				
ZZZZZZ			16:50																				
ZZZZZZ			16:54																				
ZZZZZZ			16:58																				
ZZZZZZ			17:08																				
ZZZZZZ			17:13																				
ZZZZZZ			17:17																				
ZZZZZZ			17:21																				
ZZZZZZ			17:25																				
ZZZZZZ			17:30																				
ZZZZZZ			17:34																				
CCV 680-359069/36	1		17:38	X	X	X	X																
CCB 680-359069/37	1		17:42	X	X	X	X																
ZZZZZZ			17:47																				
ZZZZZZ			17:51																				
ZZZZZZ			17:55																				
MB 680-358466/1-A	1	T	18:00	X	X	X	X																
LCS 680-358466/2-A	1	T	18:04	X	X	X	X																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Instrument ID: ICPE Method: 6010C

Start Date: 11/14/2014 15:02 End Date: 11/15/2014 02:54

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	As	Fe	Pb																
680-107159-12	1	T	18:08	X	X	X	X																
680-107159-12 SD	5	T	18:12	X	X	X	X																
680-107159-12 PDS	1	T	18:17	X	X	X	X																
680-107159-12 MS	1	T	18:21	X	X	X	X																
680-107159-12 MSD	1	T	18:25	X	X	X	X																
CCV 680-359069/48	1		18:29	X	X	X	X																
CCB 680-359069/49	1		18:34	X	X	X	X																
680-107159-1	1	T	18:38	X	X	X	X																
680-107159-2	1	T	18:42	X	X	X	X																
680-107159-3	1	T	18:46	X	X	X	X																
680-107159-4	1	T	18:51	X	X	X	X																
680-107159-5	1	T	18:55	X	X	X	X																
680-107159-6	1	T	18:59	X	X	X	X																
680-107159-7	1	T	19:03	X	X	X	X																
680-107159-8	1	T	19:08	X	X	X	X																
680-107159-9	1	T	19:12	X	X	X	X																
680-107159-10	1	T	19:16	X	X	X	X																
CCV 680-359069/60	1		19:21	X	X	X	X																
CCB 680-359069/61	1		19:25	X	X	X	X																
680-107159-11	1	T	19:29	X	X	X	X																
680-107159-13	1	T	19:33	X	X	X	X																
680-107159-14	1	T	19:38	X	X	X	X																
680-107159-15	1	T	19:42	X	X	X	X																
680-107159-16	1	T	19:46	X	X	X	X																
680-107159-17	1	T	19:50	X	X	X	X																
ZZZZZZ			19:55																				
CCV 680-359069/69	1		19:59	X	X	X	X																
CCB 680-359069/70	1		20:03	X	X	X	X																
ZZZZZZ			20:07																				
ZZZZZZ			20:12																				
ZZZZZZ			20:16																				
ZZZZZZ			20:20																				
ZZZZZZ			20:25																				
ZZZZZZ			20:29																				
ZZZZZZ			20:33																				
ZZZZZZ			20:37																				
ZZZZZZ			20:42																				
ZZZZZZ			20:46																				
CCV 680-359069/81			20:50																				
CCB 680-359069/82			20:54																				
ZZZZZZ			20:59																				
ZZZZZZ			21:03																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Instrument ID: ICPE Method: 6010C

Start Date: 11/14/2014 15:02 End Date: 11/15/2014 02:54

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	As	Fe	Pb																
ZZZZZZ			21:07																				
ZZZZZZ			21:12																				
ZZZZZZ			21:16																				
ZZZZZZ			21:20																				
ZZZZZZ			21:24																				
ZZZZZZ			21:29																				
ZZZZZZ			21:33																				
ZZZZZZ			21:37																				
CCV 680-359069/93			21:41																				
CCB 680-359069/94			21:46																				
ZZZZZZ			21:50																				
ZZZZZZ			21:54																				
ZZZZZZ			21:58																				
ZZZZZZ			22:03																				
ZZZZZZ			22:07																				
ZZZZZZ			22:11																				
CRI 680-359069/101	1		22:16	X	X	X	X																
ZZZZZZ			22:20																				
ZZZZZZ			22:24																				
ZZZZZZ			22:28																				
CCV 680-359069/105			22:33																				
CCB 680-359069/106			22:37																				
ZZZZZZ			22:41																				
ZZZZZZ			22:46																				
ZZZZZZ			22:50																				
ZZZZZZ			22:54																				
ZZZZZZ			22:58																				
ZZZZZZ			23:03																				
ZZZZZZ			23:07																				
ZZZZZZ			23:11																				
ZZZZZZ			23:15																				
ZZZZZZ			23:20																				
CCV 680-359069/117			23:24																				
CCB 680-359069/118			23:28																				
ZZZZZZ			23:33																				
ZZZZZZ			23:37																				
ZZZZZZ			23:41																				
ZZZZZZ			23:45																				
ZZZZZZ			23:50																				
ZZZZZZ			23:54																				
ZZZZZZ			23:58																				
ZZZZZZ			00:02																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Instrument ID: ICPE Method: 6010C

Start Date: 11/14/2014 15:02 End Date: 11/15/2014 02:54

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	As	Fe	Pb																
ZZZZZZ			00:07																				
ZZZZZZ			00:11																				
CCV 680-359069/129			00:15																				
CCB 680-359069/130			00:20																				
ZZZZZZ			00:24																				
ZZZZZZ			00:28																				
ZZZZZZ			00:32																				
ZZZZZZ			00:37																				
ZZZZZZ			00:41																				
ZZZZZZ			00:45																				
ZZZZZZ			00:50																				
ZZZZZZ			00:54																				
ZZZZZZ			00:58																				
ZZZZZZ			01:03																				
CCV 680-359069/141			01:07																				
CCB 680-359069/142			01:11																				
ZZZZZZ			01:15																				
ZZZZZZ			01:20																				
ZZZZZZ			01:24																				
ZZZZZZ			01:28																				
ZZZZZZ			01:33																				
ZZZZZZ			01:37																				
ZZZZZZ			01:41																				
ZZZZZZ			01:45																				
ZZZZZZ			01:50																				
ZZZZZZ			01:54																				
CCV 680-359069/153			01:58																				
CCB 680-359069/154			02:03																				
ZZZZZZ			02:07																				
ZZZZZZ			02:11																				
ZZZZZZ			02:15																				
ZZZZZZ			02:20																				
ZZZZZZ			02:24																				
ZZZZZZ			02:28																				
ZZZZZZ			02:33																				
ZZZZZZ			02:37																				
ZZZZZZ			02:41																				
ZZZZZZ			02:45																				
CCV 680-359069/165			02:50																				
CCB 680-359069/166			02:54																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Instrument ID: ICPE Method: 6010C

Start Date: 11/14/2014 15:02 End Date: 11/15/2014 02:54

Prep Types
D = Dissolved
R = Total Recoverable
T = Total/NA

E11142014.wvq. All Data Report 11/17/2014, 12:03:57 PM

Blank (Blk) **11/14/2014, 3:02:10 PM** **Rack S, Tube 1**

Label	Replicates	Concentration	
Ag 328.068	0.0700	-0.0021	-0.0679
Al 308.215	0.8568	-0.0887	-0.7681
As 188.980	-0.6621	0.8706	-0.2084
B 249.678	-0.0991	0.1424	-0.0433
Ba 389.178	0.4803	0.4305	-0.9107
Be 313.042	0.0003	0.0003	-0.0006
Ca 370.602	-3.882	1.242	2.639
Cd 226.502	-0.0224	0.0103	0.0121
Co 228.615	0.0481	-0.0151	-0.0330
Cr 267.716	-0.1680	-0.0102	0.1782
Cu 324.754	0.1933	0.0228	-0.2161
Fe 271.441	0.5534	-3.8371	3.2836
K 766.491	-0.1918	0.1030	0.0888
Mg 279.078	1.4705	-0.2283	-1.2423
Mn 257.610	-0.0108	0.0011	0.0096
Mo 202.032	-0.3110	-0.0573	0.3683
Na 330.237	76.0712	-98.5525	22.4812
Ni 231.604	-0.1490	0.9799	-0.8310
Pb 220.353	-0.7344	1.8639	-1.1295
Sb 206.834	0.8832	-0.7488	-0.1345
Se 196.026	-3.1641	0.3637	2.8004
Sn 189.925	-0.0663	-0.2340	0.3003
Sr 216.596	0.0751	-0.0769	0.0018
Ti 334.941	0.0287	0.0070	-0.0357
Tl 190.794	0.5183	0.9938	-1.5121
V 292.401	-0.1604	-0.1056	0.2660
Zn 206.200	1.1491	-1.7705	0.6213

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	5.543	16.1	-34.3845
Al 308.215	0.0000	ppb	5.372	1.2	443.413
As 188.980	0.0000	ppb	0.525	8.6	-6.0770
B 249.678	0.0000	ppb	2.063	4.9	42.0623
Ba 389.178	0.0000	ppb	17.339	46.0	-37.6973
Be 313.042	0.0000	ppb	0.979	0.3	-315.422
Ca 370.602	0.0000	ppb	9.198	40.6	22.64
Cd 226.502	0.0000	ppb	0.868	2.9	30.0842
Co 228.615	0.0000	ppb	0.511	84.4	0.6055
Cr 267.716	0.0000	ppb	9.398	30.8	30.4825
Cu 324.754	0.0000	ppb	13.857	7.2	192.346
Fe 271.441	0.0000	ppb	5.770	39.3	14.7007
K 766.491	0.0000	ppb	6.683	2.9	228.629
Mg 279.078	0.0000	ppb	3.722	16.2	22.9922
Mn 257.610	0.0000	ppb	2.147	2.8	76.5944
Mo 202.032	0.0000	ppb	2.303	23.7	9.7276
Na 330.237	0.0000	ppb	3.923	13.3	29.4252
Ni 231.604	0.0000	ppb	2.909	47.7	-6.0964
Pb 220.353	0.0000	ppb	2.663	21.2	12.5858
Sb 206.834	0.0000	ppb	1.142	22.7	-5.0212
Se 196.026	0.0000	ppb	1.350	30.7	4.3996
Sn 189.925	0.0000	ppb	0.208	3.9	-5.3518
Sr 216.596	0.0000	ppb	0.968	19.6	4.9479
Ti 334.941	0.0000	ppb	9.534	197.6	4.8246

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Tl 190.794	0.0000	ppb	1.398	17.3	-8.0722
V 292.401	0.0000	ppb	5.932	30.4	-19.5234
Zn 206.200	0.0000	ppb	1.834	492.3	0.3727

HIGH STD (Std) **11/14/2014, 3:06:25 PM** **Rack S, Tube 2**

Label	Replicates Concentration		
Ag 328.068	1006.21	996.301	997.487
Al 308.215	9999.24	9971.27	10029.5
As 188.980	988.693	1003.54	1007.77
B 249.678	994.610	998.662	1006.73
Ba 389.178	9995.26	9985.12	10019.6
Be 313.042	998.775	1000.68	1000.55
Ca 370.602	10017	9974	10008
Cd 226.502	1000.39	998.345	1001.26
Co 228.615	1001.44	996.483	1002.08
Cr 267.716	9998.29	9962.86	10038.8
Cu 324.754	10030.1	9932.01	10037.9
Fe 271.441	10005.3	9984.60	10010.1
K 766.491	19985.3	19964.0	20050.7
Mg 279.078	9996.05	9975.62	10028.3
Mn 257.610	10001.5	9989.53	10009.0
Mo 202.032	1000.36	995.703	1003.94
Na 330.237	15078.7	14857.4	15063.9
Ni 231.604	4998.89	4983.09	5018.02
Pb 220.353	1000.53	998.794	1000.67
Sb 206.834	2003.43	1996.74	1999.83
Se 196.026	10003.0	9965.72	10031.3
Sn 189.925	10009.0	9928.99	10062.0
Sr 216.596	5006.48	4983.10	5010.42
Ti 334.941	999.297	998.401	1002.30
Tl 190.794	10001.9	9985.63	10012.5
V 292.401	10002.8	9982.42	10014.7
Zn 206.200	4987.71	4992.91	5019.38

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	435.000	0.5	80346.6
Al 308.215	10000.0	ppb	191.667	0.3	66269.2
As 188.980	1000.00	ppb	6.678	1.0	660.535
B 249.678	1000.00	ppb	100.682	0.6	16363.4
Ba 389.178	10000.0	ppb	389.645	0.2	219688
Be 313.042	1000.00	ppb	2003.978	0.1	1885196
Ca 370.602	10000	ppb	60.513	0.2	26811
Cd 226.502	1000.00	ppb	67.024	0.1	44800.7
Co 228.615	1000.00	ppb	36.768	0.3	12004.4
Cr 267.716	10000.0	ppb	2061.586	0.4	542242
Cu 324.754	10000.0	ppb	3976.804	0.6	674092
Fe 271.441	10000.0	ppb	21.779	0.1	16076.4
K 766.491	20000.0	ppb	1816.682	0.2	804192
Mg 279.078	10000.0	ppb	72.179	0.3	27177.5
Mn 257.610	10000.0	ppb	2054.645	0.1	2092898
Mo 202.032	1000.00	ppb	27.713	0.4	6718.81
Na 330.237	15000.0	ppb	5.426	0.8	687.241
Ni 231.604	5000.00	ppb	55.642	0.4	15896.7

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Pb 220.353	1000.00	ppb	1.714	0.1	1649.93
Sb 206.834	2000.00	ppb	4.641	0.2	2764.76
Se 196.026	10000.0	ppb	14.802	0.3	4507.36
Sn 189.925	10000.0	ppb	50.877	0.7	7591.44
Sr 216.596	5000.00	ppb	188.164	0.3	63694.6
Ti 334.941	1000.00	ppb	594.918	0.2	291253
Tl 190.794	10000.0	ppb	14.207	0.1	10498.1
V 292.401	10000.0	ppb	417.984	0.2	255704
Zn 206.200	5000.00	ppb	20.026	0.3	5895.89

Ag 328.068 Calibration (ppb) **11/14/2014, 3:06:25 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-34.3845	0.0000	0.0000	-	-
HIGH STD		80346.6	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 80.4 x + -34.4

Al 308.215 Calibration (ppb) **11/14/2014, 3:06:25 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		443.413	0.0000	0.0000	-	-
HIGH STD		66269.2	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: y = 6.6 x + 443.4

As 188.980 Calibration (ppb) **11/14/2014, 3:06:25 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-6.0770	0.0000	0.0000	-	-
HIGH STD		660.535	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 0.7 x + -6.1

B 249.678 Calibration (ppb) **11/14/2014, 3:06:25 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		42.0623	0.0000	0.0000	-	-
HIGH STD		16363.4	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 16.3 x + 42.1

Ba 389.178 Calibration (ppb) **11/14/2014, 3:06:25 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-37.6973	0.0000	0.0000	-	-
HIGH STD		219688	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 22.0 x + -37.7

Be 313.042 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-315.422	0.0000	0.0000	-	-
HIGH STD		1885196	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 1885.5 x + -315.4

Ca 370.602 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		22.64	0.0000	0.0000	-	-
HIGH STD		26811	10000	10000	0.0010	0.0

Curve Type: Linear Equation: y = 2.7 x + 22.6

Cd 226.502 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		30.0842	0.0000	0.0000	-	-
HIGH STD		44800.7	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 44.8 x + 30.1

Co 228.615 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.6055	0.0000	0.0000	-	-
HIGH STD		12004.4	1000.00	1000.00	0.0002	0.0

Curve Type: Linear Equation: y = 12.0 x + 0.6

Cr 267.716 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		30.4825	0.0000	0.0000	-	-
HIGH STD		542242	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 54.2 x + 30.5

Cu 324.754 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		192.346	0.0000	0.0000	-	-
HIGH STD		674092	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: y = 67.4 x + 192.3

Fe 271.441 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		14.7007	0.0000	0.0000	-	-
HIGH STD		16076.4	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: y = 1.6 x + 14.7

K 766.491 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		228.629	0.0000	0.0000	-	-
HIGH STD		804192	20000.0	20000.0	0.0000	0.0

Curve Type: Linear Equation: y = 40.2 x + 228.6

Mg 279.078 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		22.9922	0.0000	0.0000	-	-
HIGH STD		27177.5	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 2.7 x + 23.0

Mn 257.610 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		76.5944	0.0000	0.0000	-	-
HIGH STD		2092898	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: y = 209.3 x + 76.6

Mo 202.032 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.7276	0.0000	0.0000	-	-
HIGH STD		6718.81	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 6.7 x + 9.7

Na 330.237 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		29.4252	0.0000	0.0000	-	-
HIGH STD		687.241	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation: y = 0.0 x + 29.4

Ni 231.604 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-6.0964	0.0000	0.0000	-	-
HIGH STD		15896.7	5000.00	5000.00	-0.0005	0.0

Curve Type: Linear Equation: y = 3.2 x + -6.1

Pb 220.353 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		12.5858	0.0000	0.0000	-	-
HIGH STD		1649.93	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: y = 1.6 x + 12.6

Sb 206.834 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.0212	0.0000	0.0000	-	-
HIGH STD		2764.76	2000.00	2000.00	0.0000	0.0

Curve Type: Linear Equation: y = 1.4 x + -5.0

Se 196.026 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		4.3996	0.0000	0.0000	-	-
HIGH STD		4507.36	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 0.5 x + 4.4

Sn 189.925 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.3518	0.0000	0.0000	-	-
HIGH STD		7591.44	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: y = 0.8 x + -5.4

Sr 216.596 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		4.9479	0.0000	0.0000	-	-
HIGH STD		63694.6	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation: y = 12.7 x + 4.9

Ti 334.941 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		4.8246	0.0000	0.0000	-	-
HIGH STD		291253	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 291.2 x + 4.8

Tl 190.794 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-8.0722	0.0000	0.0000	-	-
HIGH STD		10498.1	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 1.1 x + -8.1

V 292.401 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-19.5234	0.0000	0.0000	-	-
HIGH STD		255704	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 25.6 x + -19.5

Zn 206.200 Calibration (ppb) 11/14/2014, 3:06:25 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.3727	0.0000	0.0000	-	-
HIGH STD		5895.89	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: y = 1.2 x + 0.4

Lab Control Sample (LCS) 11/14/2014, 3:10:40 PM Rack S, Tube 2

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	996.463	1009.43x	1004.55x
Al 308.215	10032.9	10013.9	10015.9
As 188.980	1000.57	999.422	1007.85
B 249.678	1012.06	1015.45	1020.35
Ba 389.178	9964.77	9968.24	9947.55
Be 313.042	997.843	994.440	996.042
Ca 370.602	9964	9980	9988
Cd 226.502	996.946	998.906	999.176x
Co 228.615	997.624	998.400	998.581
Cr 267.716	9952.05	9980.61	9952.59
Cu 324.754	10102.7	10026.0	10107.3
Fe 271.441	9958.20	9960.69	9968.21
K 766.491	20009.0	19972.6	20003.8
Mg 279.078	9958.06	9977.73	9972.06
Mn 257.610	9977.82	9985.09	9960.10
Mo 202.032	1000.12	998.690	1001.45
Na 330.237	15222.2	14953.8	15145.6
Ni 231.604	4981.65	4995.24	5001.33
Pb 220.353	995.250	995.850	995.208
Sb 206.834	1981.10	1987.99	1987.13
Se 196.026	10005.8x	10028.9x	10018.4x
Sn 189.925	9946.72	9959.96	9943.21
Sr 216.596	4982.40	5006.56	4986.50
Ti 334.941	998.777	997.571	995.622
Tl 190.794	9984.37x	10018.7x	10010.1x
V 292.401	9960.79	9963.46	9961.72
Zn 206.200	4980.59	5003.84	4994.77

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1003.48xb	ppb	6.5481	0.7	80535.3	100.34814
Al 308.215	10020.9b	ppb	10.4392	0.1	67725.6	100.20901

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	1002.62b	ppb	4.5694	0.5	661.925	100.26155
B 249.678	1015.95b	ppb	4.1722	0.4	16630.1	20.31910*
Ba 389.178	9960.19b	ppb	11.0792	0.1	218867	99.60188
Be 313.042	996.108b	ppb	1.7029	0.2	1878261	99.61082
Ca 370.602	9978b	ppb	11.98	0.1	27385	99.77567
Cd 226.502	998.343xb	ppb	1.2173	0.1	44773.4	99.83426
Co 228.615	998.202b	ppb	0.5081	0.1	11993.6	99.82018
Cr 267.716	9961.75b	ppb	16.3338	0.2	540105	99.61751
Cu 324.754	10078.7b	ppb	45.6658	0.5	679299	100.78656
Fe 271.441	9962.37b	ppb	5.2076	0.1	16218.9	99.62367
K 766.491	19995.1b	ppb	19.6949	0.1	803997	99.97573
Mg 279.078	9969.29b	ppb	10.1240	0.1	26884.7	99.69287
Mn 257.610	9974.34b	ppb	12.8547	0.1	2087630	99.74336
Mo 202.032	1000.09b	ppb	1.3814	0.1	6708.20	100.00858
Na 330.237	15107.2b	ppb	138.253	0.9	594.254	100.71481
Ni 231.604	4992.74b	ppb	10.0742	0.2	15871.9	99.85481
Pb 220.353	995.436b	ppb	0.3589	0.0	1651.18	99.54359
Sb 206.834	1985.41b	ppb	3.7528	0.2	2855.91	99.27048
Se 196.026	10017.7xb	ppb	11.5719	0.1	4517.68	100.17720
Sn 189.925	9949.96b	ppb	8.8340	0.1	7553.43	99.49965
Sr 216.596	4991.82b	ppb	12.9275	0.3	63450.9	99.83636
Ti 334.941	997.323b	ppb	1.5919	0.2	290491	99.73232
Tl 190.794	10004.4xb	ppb	17.8813	0.2	10521.1	100.04411
V 292.401	9961.99b	ppb	1.3522	0.0	254127	99.61990
Zn 206.200	4993.07b	ppb	11.7224	0.2	5865.45	99.86137

Initial Calib Verif (ICV) **11/14/2014, 3:14:55 PM** **Rack S, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1009.31x	1008.03x	1010.14x
Al 308.215	995.057	998.438	991.654
As 188.980	949.579	972.840	959.858
B 249.678	1016.75	1026.52	1023.52
Ba 389.178	1019.12	1025.76	1021.73
Be 313.042	1002.80x	1013.41x	1007.75x
Ca 370.602	980.2	987.6	985.1
Cd 226.502	1010.11x	1016.45x	1011.05x
Co 228.615	1038.35	1045.69	1044.31
Cr 267.716	1026.80	1031.53	1027.91
Cu 324.754	1032.85	1036.71	1029.07
Fe 271.441	1003.31	1006.58	1003.94
K 766.491	10184.3	10249.5	10205.1
Mg 279.078	995.590	999.202	991.147
Mn 257.610	1034.08	1041.00	1035.40
Mo 202.032	1024.39x	1028.17x	1023.24x
Na 330.237	9900.58	10010.7	9978.84
Ni 231.604	1013.88	1016.95	1010.57
Pb 220.353	1019.36	1020.84	1019.00
Sb 206.834	992.514	1001.48	1006.38
Se 196.026	990.835	1003.51	994.561
Sn 189.925	5018.27	5030.23	4995.61
Sr 216.596	5087.06x	5115.49x	5093.56x
Ti 334.941	972.296	979.608	974.869

Label	Replicates Concentration		
Tl 190.794	1001.04	1001.99	995.889
V 292.401	1033.23	1039.35	1035.68
Zn 206.200	1028.47	1026.83	1020.49

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1009.16xb	ppb	1.0661	0.1	80925.5	100.91582
Al 308.215	995.049b	ppb	3.3919	0.3	7145.32	99.50495
As 188.980	960.759b	ppb	11.6563	1.2	634.074	96.07591
B 249.678	1022.26b	ppb	5.0025	0.5	16738.7	102.22646
Ba 389.178	1022.20b	ppb	3.3484	0.3	22432.7	102.22029
Be 313.042	1007.98xb	ppb	5.3085	0.5	1900145	100.79826
Ca 370.602	984.3b	ppb	3.782	0.4	3088	98.42836
Cd 226.502	1012.54xb	ppb	3.4195	0.3	45365.3	101.25355
Co 228.615	1042.78b	ppb	3.9018	0.4	12509.0	104.27831
Cr 267.716	1028.75b	ppb	2.4763	0.2	55796.1	102.87479
Cu 324.754	1032.88b	ppb	3.8213	0.4	69822.6	103.28777
Fe 271.441	1004.61b	ppb	1.7362	0.2	1758.81	100.46072
K 766.491	10213.0b	ppb	33.2723	0.3	410771	102.12964
Mg 279.078	995.313b	ppb	4.0348	0.4	2703.92	99.53131
Mn 257.610	1036.83b	ppb	3.6760	0.4	217077	103.68275
Mo 202.032	1025.27xb	ppb	2.5766	0.3	6887.17	102.52655
Na 330.237	9963.36b	ppb	56.6547	0.6	446.433	99.63364
Ni 231.604	1013.80b	ppb	3.1875	0.3	3215.81	101.38026
Pb 220.353	1019.73b	ppb	0.9780	0.1	1680.91	101.97336
Sb 206.834	1000.12b	ppb	7.0323	0.7	1377.88	100.01245
Se 196.026	996.302b	ppb	6.5155	0.7	453.274	99.63024
Sn 189.925	5014.70b	ppb	17.5805	0.4	3804.21	100.29402
Sr 216.596	5098.71xb	ppb	14.8978	0.3	64911.3	101.97410
Ti 334.941	975.591b	ppb	3.7092	0.4	284145	97.55913
Tl 190.794	999.639b	ppb	3.2820	0.3	1043.51	99.96389
V 292.401	1036.09b	ppb	3.0825	0.3	26243.6	103.60867
Zn 206.200	1025.27b	ppb	4.2133	0.4	1206.97	102.52657

Initial Calib Blank (ICB) **11/14/2014, 3:19:10 PM** **Rack S, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5331	0.2645	0.4927
Al 308.215	0.6226	0.0468	-0.6090u
As 188.980	3.2665	1.5623	4.4606
B 249.678	22.1627	19.6048	18.0757
Ba 389.178	0.1705	-0.7504u	0.5356
Be 313.042	0.0491	0.0546	0.0527
Ca 370.602	-3.841u	-7.020u	-1.328u
Cd 226.502	-0.0959u	-0.0296u	0.1097
Co 228.615	-0.4652u	0.3744	-0.0305u
Cr 267.716	0.1663	0.1126	0.3163
Cu 324.754	0.4235	0.1444	0.1439
Fe 271.441	0.9801	4.6517	3.1718
K 766.491	0.8236	1.2951	1.7972
Mg 279.078	-0.5844u	-3.4981u	-0.9900u
Mn 257.610	0.2146	0.1792	0.2159
Mo 202.032	0.1583	0.3112	0.5925
Na 330.237	-95.3227u	-64.7640u	-133.464u

Label	Replicates Concentration		
Ni 231.604	-0.0502u	0.0886	-0.3248u
Pb 220.353	-0.3775u	1.1596	-1.3970u
Sb 206.834	-0.7248u	1.3733	1.7058
Se 196.026	0.6274	9.0058	-3.9641u
Sn 189.925	-2.0142u	1.8182	0.8412
Sr 216.596	0.6643	0.1239	0.4932
Ti 334.941	0.2311	0.2205	0.1642
Tl 190.794	-0.4023u	-1.0740u	0.1009
V 292.401	0.7316	0.2834	0.6831
Zn 206.200	2.6542	-0.0316u	1.1058

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.4301	ppb	0.1448	33.7	0.1711	0.43010
Al 308.215	0.0201	ppb	0.6162	3061.5	443.583	0.02013
As 188.980	3.0964	ppb	1.4566	47.0	-4.0130	3.09644
B 249.678	19.9477	ppb	2.0650	10.4	367.632	19.94772
Ba 389.178	-0.0148	ppb	0.6627	4483.2	-38.0245	-0.01478
Be 313.042	0.0521	ppb	0.0028	5.3	-217.153	0.05214
Ca 370.602	-4.063	ppb	2.853	70.2	11.85	-4.06316
Cd 226.502	-0.0053	ppb	0.1049	1977.8	29.8456	-0.00531
Co 228.615	-0.0404	ppb	0.4199	1038.9	0.1150	-0.04042
Cr 267.716	0.1984	ppb	0.1056	53.2	41.2385	0.19840
Cu 324.754	0.2372	ppb	0.1613	68.0	208.342	0.23723
Fe 271.441	2.9345	ppb	1.8472	62.9	19.4030	2.93452
K 766.491	1.3053	ppb	0.4869	37.3	281.099	1.30528
Mg 279.078	-1.6908	ppb	1.5782	93.3	18.3965	-1.69084
Mn 257.610	0.2033	ppb	0.0208	10.2	119.115	0.20325
Mo 202.032	0.3540	ppb	0.2202	62.2	12.1025	0.35402
Na 330.237	-97.8502	ppb	34.4197	35.2	25.1159	-97.85022
Ni 231.604	-0.0955	ppb	0.2104	220.4	-6.3997	-0.09546
Pb 220.353	-0.2050	ppb	1.2870	627.9	12.2498	-0.20496
Sb 206.834	0.7848	ppb	1.3179	167.9	-3.9379	0.78475
Se 196.026	1.8897	ppb	6.5764	348.0	5.2505	1.88969
Sn 189.925	0.2151	ppb	1.9915	926.0	-5.1884	0.21506
Sr 216.596	0.4271	ppb	0.2762	64.7	10.3789	0.42714
Ti 334.941	0.2053	ppb	0.0359	17.5	64.6078	0.20527
Tl 190.794	-0.4585	ppb	0.5895	128.6	-8.5548	-0.45846
V 292.401	0.5660	ppb	0.2459	43.4	-5.1197	0.56603
Zn 206.200	1.2428	ppb	1.3482	108.5	1.8376	1.24278

CRI (CRI) **11/14/2014, 3:23:25 PM** **Rack S, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.6966	10.7810	10.4862
Al 308.215	196.240	199.671	197.026
As 188.980	21.4794	18.4293	22.0026
B 249.678	106.122	108.267	106.867
Ba 389.178	9.2990	9.7716	10.0418
Be 313.042	4.1355	4.1840	4.1340
Ca 370.602	491.7	502.4	501.5
Cd 226.502	4.9052	5.0520	5.0275
Co 228.615	9.7137	10.3827	9.9714
Cr 267.716	10.3317	10.5654	10.5712

Label	Replicates Concentration		
Cu 324.754	21.1050	21.4678	21.0776
Fe 271.441	47.8834	49.4665	52.6665
K 766.491	1033.05	1047.58	1030.93
Mg 279.078	500.726	515.658	502.097
Mn 257.610	10.6296	10.8049	10.7084
Mo 202.032	10.3119	9.9003	9.7109
Na 330.237	843.416	979.450	942.848
Ni 231.604	40.6716	41.4127	40.5750
Pb 220.353	10.2517	13.8359	11.2193
Sb 206.834	21.4628	24.4473	20.8598
Se 196.026	16.7426	17.9661	17.0287
Sn 189.925	51.7829	47.1164	51.3204
Sr 216.596	9.9224	10.2189	9.8587
Ti 334.941	10.0962	10.2639	10.0939
Tl 190.794	25.7256	27.4861	24.5937
V 292.401	10.5642	11.2672	11.0812
Zn 206.200	21.6761	23.0612	21.9577

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	10.6546	ppb	0.1518	1.4	821.784	106.54588
Al 308.215	197.646	ppb	1.7979	0.9	1746.02	98.82280
As 188.980	20.6371	ppb	1.9298	9.4	7.6767	103.18541
B 249.678	107.086	ppb	1.0885	1.0	1790.03	107.08551
Ba 389.178	9.7041	ppb	0.3759	3.9	176.668	97.04121
Be 313.042	4.1512	ppb	0.0285	0.7	7510.73	103.77956
Ca 370.602	498.5	ppb	5.963	1.2	1362	99.70506
Cd 226.502	4.9949	ppb	0.0786	1.6	253.947	99.89773
Co 228.615	10.0226	ppb	0.3374	3.4	120.846	100.22589
Cr 267.716	10.4894	ppb	0.1366	1.3	599.183	104.89441
Cu 324.754	21.2168	ppb	0.2178	1.0	1622.39	106.08403
Fe 271.441	50.0054	ppb	2.4367	4.9	96.2825	100.01088
K 766.491	1037.18	ppb	9.0655	0.9	41921.5	103.71842
Mg 279.078	506.160	ppb	8.2538	1.6	1397.15	101.23204
Mn 257.610	10.7143	ppb	0.0878	0.8	2322.80	107.14311
Mo 202.032	9.9744	ppb	0.3073	3.1	76.6325	99.74390
Na 330.237	921.905	ppb	70.3940	7.6	69.4334	92.19047
Ni 231.604	40.8864	ppb	0.4583	1.1	123.924	102.21612
Pb 220.353	11.7689	ppb	1.8543	15.8	31.8431	117.68947
Sb 206.834	22.2566	ppb	1.9210	8.6	25.7814	111.28307
Se 196.026	17.2458	ppb	0.6400	3.7	12.1682	86.22903
Sn 189.925	50.0732	ppb	2.5711	5.1	32.6882	100.14646
Sr 216.596	10.0000	ppb	0.1922	1.9	131.280	99.99988
Ti 334.941	10.1514	ppb	0.0975	1.0	2962.21	101.51360
Tl 190.794	25.9352	ppb	1.4575	5.6	19.1836	103.74061
V 292.401	10.9709	ppb	0.3643	3.3	258.735	109.70864
Zn 206.200	22.2317	ppb	0.7321	3.3	26.5609	111.15839

Interf Check A (ICSA) **11/14/2014, 3:28:54 PM** **Rack S, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1756u	0.9341	0.1859u
Al 308.215	539396	538520	540823
As 188.980	5.2002	-2.5766u	7.4753

Label	Replicates Concentration		
B 249.678	8.4468u	7.9413u	7.9976u
Ba 389.178	2.6987	3.7869	4.5977
Be 313.042	-0.1407u	-0.1481u	-0.1532u
Ca 370.602	495224	493512	493300
Cd 226.502	1.6636	1.2020	1.2343
Co 228.615	-0.8143	-0.0766	-0.4332
Cr 267.716	0.2992	0.3319	0.1795
Cu 324.754	1.5078	1.8609	1.7197
Fe 271.441	189413	189690	189339
K 766.491	2.7660	2.4766	1.8132
Mg 279.078	517221	516155	517488
Mn 257.610	2.7022	2.8118	2.7547
Mo 202.032	0.1013u	1.1156u	0.7260u
Na 330.237	-505.633u	-396.274u	-398.394u
Ni 231.604	1.6390	-0.4059	2.0837
Pb 220.353	-0.3729	1.5326	-2.7244
Sb 206.834	0.2304	-0.3721	3.1408
Se 196.026	0.9429	3.6259	10.8035
Sn 189.925	-0.1174u	-0.9529u	0.1438
Sr 216.596	1.6025	2.1436	2.5558
Ti 334.941	0.8975	0.8557	0.8566
Tl 190.794	-2.9719u	-2.2077u	-3.6972u
V 292.401	-0.4421u	0.0716u	-0.5353u
Zn 206.200	12.1134	10.2610	10.5755

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.4319	ppb	0.4350	100.7	-37.7486	0.43186
Al 308.215	539580	ppb	1162.65	0.2	3552290	-
As 188.980	3.3663	ppb	5.2709	156.6	-5.0791	3.36631
B 249.678	8.1286	ppb	0.2771	3.4	-255.420	8.12855
Ba 389.178	3.6944	ppb	0.9529	25.8	1239.92	3.69443
Be 313.042	-0.1473	ppb	0.0063	4.3	-392.726	-0.14734
Ca 370.602	494012	ppb	1055	0.2	1321531	-
Cd 226.502	1.3666	ppb	0.2577	18.9	1011.44	1.36665
Co 228.615	-0.4414	ppb	0.3689	83.6	8.8899	-0.44139
Cr 267.716	0.2702	ppb	0.0802	29.7	142.100	0.27019
Cu 324.754	1.6961	ppb	0.1777	10.5	382.154	1.69609
Fe 271.441	189481	ppb	184.958	0.1	304352	-
K 766.491	2.3520	ppb	0.4885	20.8	323.173	2.35195
Mg 279.078	516955	ppb	704.945	0.1	1403585	-
Mn 257.610	2.7562	ppb	0.0548	2.0	5021.34	2.75623
Mo 202.032	0.6476	ppb	0.5117	79.0	5.2876	0.64761
Na 330.237	-433.433	ppb	62.5353	14.4	-30.8067	-433.43347
Ni 231.604	1.1056	ppb	1.3277	120.1	14.3067	1.10559
Pb 220.353	-0.5216	ppb	2.1324	408.8	17.1246	-0.52155
Sb 206.834	0.9997	ppb	1.8785	187.9	-0.2312	0.99968
Se 196.026	5.1241	ppb	5.0982	99.5	8.3960	5.12409
Sn 189.925	-0.3089	ppb	0.5729	185.5	-5.5869	-0.30886
Sr 216.596	2.1006	ppb	0.4781	22.8	489.275	2.10063
Ti 334.941	0.8699	ppb	0.0239	2.7	1218.08	0.86995
Tl 190.794	-2.9589	ppb	0.7448	25.2	-39.6390	-2.95894
V 292.401	-0.3019	ppb	0.3268	108.2	-91.7456	-0.30193
Zn 206.200	10.9833	ppb	0.9912	9.0	6.0439	10.98330

Interf Check AB (ICSAB) **11/14/2014, 3:33:11 PM** **Rack S, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	223.689	222.768	223.859
Al 308.215	542960	543213	544118
As 188.980	108.267	109.002	108.094
B 249.678	3.4636u	3.0728u	2.7231u
Ba 389.178	504.205	502.132	504.555
Be 313.042	478.115	478.148	479.051
Ca 370.602	488862	489705	490333
Cd 226.502	934.663	937.984	940.672
Co 228.615	472.106	472.672	473.237
Cr 267.716	494.270	494.185	495.998
Cu 324.754	567.142	561.544	570.309
Fe 271.441	189354	189741	190146
K 766.491	9.4344	8.7997	9.0375
Mg 279.078	518015	519715	520409
Mn 257.610	509.314	508.563	509.109
Mo 202.032	993.293	997.379	996.068
Na 330.237	-488.992u	-402.302u	-637.627u
Ni 231.604	920.703	923.793	920.908
Pb 220.353	43.6255	43.7957	40.0060
Sb 206.834	615.413	622.084	621.046
Se 196.026	58.8712	43.9156	51.7412
Sn 189.925	989.521	998.081	988.539
Sr 216.596	-12.2404	-12.3529	-11.9780
Ti 334.941	2.5167	2.5552	2.5364
Tl 190.794	94.2863	93.3365	85.0927
V 292.401	483.307	484.718	485.413
Zn 206.200	933.110	933.112	935.846

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	223.438	ppb	0.5870	0.3	17891.8	111.71921
Al 308.215	543430	ppb	608.738	0.1	3577721	108.68605
As 188.980	108.454	ppb	0.4820	0.4	64.6832	108.45430
B 249.678	3.0865	ppb	0.3705	12.0	-330.290	-
Ba 389.178	503.631	ppb	1.3095	0.3	12237.9	100.72613
Be 313.042	478.438	ppb	0.5312	0.1	901857	95.68756
Ca 370.602	489634	ppb	738.1	0.2	1309813	97.92673
Cd 226.502	937.773	ppb	3.0101	0.3	42937.9	93.77728
Co 228.615	472.672	ppb	0.5652	0.1	5659.79	94.53437
Cr 267.716	494.818	ppb	1.0232	0.2	26944.4	98.96357
Cu 324.754	566.332	ppb	4.4388	0.8	38463.7	113.26633
Fe 271.441	189747	ppb	395.871	0.2	304840	94.87338
K 766.491	9.0905	ppb	0.3206	3.5	594.052	-
Mg 279.078	519380	ppb	1231.92	0.2	1410158	103.87592
Mn 257.610	508.995	ppb	0.3879	0.1	110995	101.79907
Mo 202.032	995.580	ppb	2.0861	0.2	6679.83	99.55797
Na 330.237	-509.640	ppb	119.014	23.4	-51.9881	-
Ni 231.604	921.801	ppb	1.7281	0.2	2941.49	92.18011
Pb 220.353	42.4757	ppb	2.1405	5.0	86.2926	84.95150
Sb 206.834	619.514	ppb	3.5895	0.6	846.253	103.25241
Se 196.026	51.5093	ppb	7.4805	14.5	29.4021	103.01862
Sn 189.925	992.047	ppb	5.2487	0.5	748.285	99.20471
Sr 216.596	-12.1904	ppb	0.1924	1.6	268.042	-

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	2.5361	ppb	0.0192	0.8	1709.54	-
Tl 190.794	90.9052	ppb	5.0561	5.6	57.8485	90.90516
V 292.401	484.479	ppb	1.0733	0.2	12094.3	96.89586
Zn 206.200	934.023	ppb	1.5790	0.2	1093.29	93.40226

LRA1 (Samp) **11/14/2014, 3:37:29 PM** **Rack S, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4968	-0.3847	-0.3180
Al 308.215	94.9710	91.5743	90.5916
As 188.980	20636.4x	20849.2x	20709.8x
B 249.678	5253.60x	5292.43x	5306.08x
Ba 389.178	-0.9653u	-0.2801u	-0.8301u
Be 313.042	0.1332	0.1211	0.1232
Ca 370.602	439.2	446.1	442.8
Cd 226.502	-0.9575u	-0.8516u	-0.7756u
Co 228.615	10637.9	10674.7	10587.3
Cr 267.716	-0.5596	-0.7250	-0.6880
Cu 324.754	-4.0866u	-4.6220u	-4.5793u
Fe 271.441	77.6476	77.9813	74.9330
K 766.491	1.0898	1.4425	1.2839
Mg 279.078	57.2122u	55.2806u	48.2944u
Mn 257.610	29119.3x	29153.0x	29024.0x
Mo 202.032	0.5565	0.3280	0.4496
Na 330.237	215.882	34.3766	-26.4132u
Ni 231.604	10641.9x	10665.0x	10629.1x
Pb 220.353	21550.3x	21592.6x	21483.8x
Sb 206.834	7.2185	7.6389	2.3780
Se 196.026	-0.8980	4.4637	2.0357
Sn 189.925	2.2857	0.6489	0.1375
Sr 216.596	1.6881u	1.9323u	0.8492u
Ti 334.941	28810.3x	28936.2x	28773.5x
Tl 190.794	10.6756	12.2416	18.4072
V 292.401	-3.5335	-3.3800	-3.9151
Zn 206.200	2.2614	-0.0065u	0.5629

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3998b	ppb	0.0903	22.6	76.5883
Al 308.215	92.3789b	ppb	2.2979	2.5	983.002
As 188.980	20731.8xb	ppb	108.097	0.5	13814.0
B 249.678	5284.04xb	ppb	27.2272	0.5	86282.9
Ba 389.178	-0.6918b	ppb	0.3629	52.5	-52.6276
Be 313.042	0.1258b	ppb	0.0065	5.1	-95.2950
Ca 370.602	442.7b	ppb	3.426	0.8	13915
Cd 226.502	-0.8616b	ppb	0.0913	10.6	-56.1656
Co 228.615	10633.3b	ppb	43.8848	0.4	128284
Cr 267.716	-0.6575b	ppb	0.0868	13.2	199.236
Cu 324.754	-4.4293b	ppb	0.2975	6.7	-106.211
Fe 271.441	76.8540b	ppb	1.6719	2.2	1374.30
K 766.491	1.2721b	ppb	0.1766	13.9	279.764
Mg 279.078	53.5957b	ppb	4.6916	8.8	-429.473
Mn 257.610	29098.7xb	ppb	66.9169	0.2	6089923
Mo 202.032	0.4447b	ppb	0.1143	25.7	12.6613

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	74.6150b	ppb	126.060	168.9	31.4934
Ni 231.604	10645.4xb	ppb	18.1720	0.2	33824.9
Pb 220.353	21542.2xb	ppb	54.8338	0.3	35272.0
Sb 206.834	5.7451b	ppb	2.9236	50.9	2.9709
Se 196.026	1.8671b	ppb	2.6848	143.8	11.7709
Sn 189.925	1.0241b	ppb	1.1222	109.6	-4.5745
Sr 216.596	1.4899b	ppb	0.5681	38.1	-283.437
Ti 334.941	28840.0xb	ppb	85.3122	0.3	8399585
Tl 190.794	13.7748b	ppb	4.0874	29.7	48.8585
V 292.401	-3.6095b	ppb	0.2755	7.6	91.3794
Zn 206.200	0.9393b	ppb	1.1798	125.6	1.4451

LRA2 (Samp) **11/14/2014, 3:41:47 PM** **Rack S, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0553u	0.7279u	0.3410u
Al 308.215	903333x	907609x	907493x
As 188.980	116.936	91.0731	86.6212
B 249.678	103.371u	89.8972u	80.6021u
Ba 389.178	15.6822	15.8183	17.9913
Be 313.042	-0.2277u	-0.2216u	-0.2183u
Ca 370.602	830350	831542	830802
Cd 226.502	14.7523	14.2556	15.5423
Co 228.615	-11.0621u	-10.0808u	-10.2749u
Cr 267.716	-6.2397	-6.5787	-6.4942
Cu 324.754	3.3007	3.8264	4.0397
Fe 271.441	992630	990446	989495
K 766.491	24.1898	24.1385	24.2898
Mg 279.078	860267x	862810x	860990x
Mn 257.610	8.2389	7.8685	8.1278
Mo 202.032	2.1946u	2.8603u	3.3830u
Na 330.237	-300.071u	-407.750u	-587.854u
Ni 231.604	38.0851	39.7957	39.8313
Pb 220.353	7.9955	13.7281	10.1673
Sb 206.834	3.8414	-11.7622	18.1882
Se 196.026	-18.1443	-16.3933	-15.1800
Sn 189.925	-6.0213u	-8.5203u	-4.8918u
Sr 216.596	-11.9851	-13.1373	-12.0848
Ti 334.941	9.0025	8.2546	7.6307
Tl 190.794	-17.8528u	-12.4971u	-11.1693u
V 292.401	-4.5756u	-4.7357u	-4.1099u
Zn 206.200	8.5947u	9.1864u	4.6816u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3378b	ppb	0.3916	115.9	-181.561
Al 308.215	906145xb	ppb	2436.19	0.3	5965321
As 188.980	98.2099b	ppb	16.3689	16.7	52.8543
B 249.678	91.2902b	ppb	11.4484	12.5	-724.462
Ba 389.178	16.4973b	ppb	1.2957	7.9	2836.50
Be 313.042	-0.2225b	ppb	0.0048	2.1	-420.817
Ca 370.602	830898b	ppb	601.5	0.1	2216136
Cd 226.502	14.8501b	ppb	0.6489	4.4	5493.96
Co 228.615	-10.4726b	ppb	0.5197	5.0	-54.0437

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-6.4375b	ppb	0.1764	2.7	168.753
Cu 324.754	3.7222b	ppb	0.3803	10.2	839.363
Fe 271.441	990857b	ppb	1607.71	0.2	1591496
K 766.491	24.2060b	ppb	0.0769	0.3	1201.67
Mg 279.078	861356xb	ppb	1310.39	0.2	2338650
Mn 257.610	8.0784b	ppb	0.1901	2.4	11018.0
Mo 202.032	2.8126b	ppb	0.5957	21.2	-17.4798
Na 330.237	-431.892b	ppb	145.402	33.7	-204.810
Ni 231.604	39.2374b	ppb	0.9980	2.5	206.451
Pb 220.353	10.6303b	ppb	2.8942	27.2	85.9640
Sb 206.834	3.4224b	ppb	14.9796	437.7	17.4686
Se 196.026	-16.5725b	ppb	1.4903	9.0	5.7811
Sn 189.925	-6.4778b	ppb	1.8568	28.7	-10.2751
Sr 216.596	-12.4024b	ppb	0.6384	5.1	1547.83
Ti 334.941	8.2960b	ppb	0.6868	8.3	4104.42
Tl 190.794	-13.8398b	ppb	3.5383	25.6	-171.960
V 292.401	-4.4737b	ppb	0.3251	7.3	-480.459
Zn 206.200	7.4876b	ppb	2.4480	32.7	-28.9649

LRA3 (Samp) **11/14/2014, 3:46:05 PM** **Rack S, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1107	0.2232	0.1974
Al 308.215	37.7612	40.0349	42.9394
As 188.980	17.0252	11.4463	13.2721
B 249.678	21.6971	19.8029	18.2416
Ba 389.178	-0.1290u	0.1170	0.2387
Be 313.042	0.0039u	0.0036u	0.0093
Ca 370.602	38.30	42.72	45.66
Cd 226.502	-0.0350u	-0.0567u	-0.0778u
Co 228.615	-0.6579u	-0.4690u	0.1580
Cr 267.716	0.0340	0.1305	0.1087
Cu 324.754	0.0360	0.2483	0.3330
Fe 271.441	47.3614	49.7652	55.5374
K 766.491	41123.7x	40534.4x	41128.0x
Mg 279.078	44.4845	44.5467	45.0014
Mn 257.610	0.3194	0.3150	0.3485
Mo 202.032	-0.1875u	-0.1711u	0.2230
Na 330.237	105312x	104166x	105185x
Ni 231.604	0.6477	-0.1239u	1.3821
Pb 220.353	0.4227	-0.3491u	-1.7903u
Sb 206.834	-0.9117u	2.3315	0.0492
Se 196.026	7.5390	1.5842	1.4391
Sn 189.925	2.6376	-0.5016u	-1.6612u
Sr 216.596	0.2627	0.0595	0.2869
Ti 334.941	0.8799	0.8445	0.8119
Tl 190.794	-1.6716u	-0.3664u	1.7755
V 292.401	0.2431	0.2905	0.6293
Zn 206.200	29496.7x	29089.7x	29396.5x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1771b	ppb	0.0589	33.3	-20.1647
Al 308.215	40.2451b	ppb	2.5955	6.4	708.353

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	13.9145b	ppb	2.8444	20.4	3.1982
B 249.678	19.9139b	ppb	1.7304	8.7	367.088
Ba 389.178	0.0755b	ppb	0.1873	248.0	-35.9090
Be 313.042	0.0056b	ppb	0.0032	57.0	-316.232
Ca 370.602	42.23b	ppb	3.705	8.8	135.6
Cd 226.502	-0.0565b	ppb	0.0214	37.9	27.1547
Co 228.615	-0.3230b	ppb	0.4271	132.2	-3.2165
Cr 267.716	0.0911b	ppb	0.0506	55.6	36.8247
Cu 324.754	0.2058b	ppb	0.1530	74.3	206.229
Fe 271.441	50.8880b	ppb	4.2020	8.3	96.4136
K 766.491	40928.7xb	ppb	341.438	0.8	1645487
Mg 279.078	44.6776b	ppb	0.2822	0.6	144.290
Mn 257.610	0.3276b	ppb	0.0182	5.5	145.160
Mo 202.032	-0.0452b	ppb	0.2324	514.1	9.4217
Na 330.237	104887xb	ppb	628.015	0.6	4063.89
Ni 231.604	0.6353b	ppb	0.7531	118.5	-4.0367
Pb 220.353	-0.5722b	ppb	1.1232	196.3	11.6519
Sb 206.834	0.4897b	ppb	1.6658	340.2	-4.3386
Se 196.026	3.5208b	ppb	3.4807	98.9	5.9855
Sn 189.925	0.1583b	ppb	2.2241	1405.0	-5.2000
Sr 216.596	0.2030b	ppb	0.1249	61.5	7.6065
Ti 334.941	0.8454b	ppb	0.0340	4.0	243.268
Tl 190.794	-0.0875b	ppb	1.7404	1989.0	-8.1718
V 292.401	0.3876b	ppb	0.2107	54.3	-10.3214
Zn 206.200	29327.7xb	ppb	212.043	0.7	34580.7

Cont Calib Verif (CCV) **11/14/2014, 3:50:22 PM** **Rack 1, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	506.322	505.735	504.334
Al 308.215	4862.45	4866.05	4858.56
As 188.980	464.568	471.860	474.389
B 249.678	497.749	501.585	500.650
Ba 389.178	4949.22	4934.50	4934.13
Be 313.042	494.057	492.750	492.580
Ca 370.602	4873	4865	4846
Cd 226.502	500.098	498.981	496.787
Co 228.615	502.844	503.881	501.639
Cr 267.716	5067.10	5064.05	5052.98
Cu 324.754	5173.96	5133.73	5074.75
Fe 271.441	4952.74	4940.18	4938.61
K 766.491	10199.9	10219.1	10219.6
Mg 279.078	4908.89	4911.86	4887.34
Mn 257.610	5060.08	5057.84	5058.76
Mo 202.032	493.332	492.386	491.316
Na 330.237	7376.35	7394.23	7702.23
Ni 231.604	2486.42	2479.65	2451.49
Pb 220.353	499.872	498.316	494.920
Sb 206.834	934.483	936.063	929.013
Se 196.026	4970.56	4993.56	4981.83
Sn 189.925	4926.96	4916.85	4909.61
Sr 216.596	2486.83	2477.90	2475.98
Ti 334.941	492.391	492.452	492.261

Label	Replicates Concentration		
Tl 190.794	5030.13	5029.38	5017.42
V 292.401	4897.69	4895.61	4881.99
Zn 206.200	2502.58	2494.71	2476.18

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	505.463	ppb	1.0214	0.2	40549.7	101.09269
Al 308.215	4862.35	ppb	3.7427	0.1	33099.1	97.24706
As 188.980	470.272	ppb	5.0994	1.1	307.237	94.05447
B 249.678	499.995	ppb	2.0001	0.4	8205.08	99.99895
Ba 389.178	4939.28	ppb	8.6054	0.2	108518	98.78564
Be 313.042	493.129	ppb	0.8078	0.2	929683	98.62579
Ca 370.602	4861	ppb	13.59	0.3	13361	97.22406
Cd 226.502	498.622	ppb	1.6847	0.3	22377.0	99.72441
Co 228.615	502.788	ppb	1.1219	0.2	6041.72	100.55753
Cr 267.716	5061.38	ppb	7.4267	0.1	274433	101.22753
Cu 324.754	5127.48	ppb	49.8976	1.0	345687	102.54954
Fe 271.441	4943.84	ppb	7.7450	0.2	8056.93	98.87685
K 766.491	10212.9	ppb	11.2417	0.1	410767	102.12872
Mg 279.078	4902.70	ppb	13.3850	0.3	13230.3	98.05395
Mn 257.610	5058.89	ppb	1.1274	0.0	1058863	101.17784
Mo 202.032	492.345	ppb	1.0083	0.2	3307.40	98.46890
Na 330.237	7490.94	ppb	183.203	2.4	309.138	99.87914
Ni 231.604	2472.52	ppb	18.5270	0.7	7857.06	98.90089
Pb 220.353	497.702	ppb	2.5324	0.5	831.960	99.54048
Sb 206.834	933.186	ppb	3.6993	0.4	1344.30	93.31863
Se 196.026	4981.98	ppb	11.4988	0.2	2248.95	99.63966
Sn 189.925	4917.81	ppb	8.7126	0.2	3730.60	98.35612
Sr 216.596	2480.24	ppb	5.7928	0.2	31528.9	99.20948
Ti 334.941	492.368	ppb	0.0978	0.0	143415	98.47362
Tl 190.794	5025.64	ppb	7.1337	0.1	5281.10	100.51287
V 292.401	4891.76	ppb	8.5247	0.2	124769	97.83528
Zn 206.200	2491.16	ppb	13.5567	0.5	2926.36	99.64631

Cont Calib Blank (CCB) **11/14/2014, 3:54:36 PM** **Rack 1, Tube 2**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1974	0.3001	0.0925
Al 308.215	2.6062	2.6118	2.7769
As 188.980	5.5545	1.8236	5.1841
B 249.678	13.5350	12.9834	10.8259
Ba 389.178	0.5609	0.0887	0.2773
Be 313.042	0.0284	0.0370	0.0299
Ca 370.602	4.147	0.7741	3.795
Cd 226.502	-0.0296u	0.0088	-0.0264u
Co 228.615	-0.4672u	-0.5461u	-0.4248u
Cr 267.716	0.4361	0.5046	0.5039
Cu 324.754	0.1913	0.3999	0.4979
Fe 271.441	9.5234	5.8056	4.4032
K 766.491	1.6731	1.9133	1.7188
Mg 279.078	1.6863	3.0980	5.5445
Mn 257.610	0.4071	0.4226	0.5451
Mo 202.032	0.0050	0.1412	0.3678
Na 330.237	-89.5260u	153.434	-179.934u

Label	Replicates Concentration		
Ni 231.604	0.4172	0.7837	1.5653
Pb 220.353	-2.7414u	-1.1392u	0.1823
Sb 206.834	4.9759	5.3383	1.3429
Se 196.026	4.4706	5.5763	-5.0492u
Sn 189.925	0.4467	1.6621	-2.7823u
Sr 216.596	0.0432	0.3260	0.5028
Ti 334.941	0.2425	0.2561	0.2671
Tl 190.794	-1.3920u	-0.3814u	-1.6180u
V 292.401	0.8662	1.0206	0.9452
Zn 206.200	1.1442	2.3159	1.0366

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1967	ppb	0.1038	52.8	-18.5825	0.19666
Al 308.215	2.6650	ppb	0.0970	3.6	461.046	2.66498
As 188.980	4.1874	ppb	2.0555	49.1	-3.2857	4.18743
B 249.678	12.4481	ppb	1.4317	11.5	245.268	12.44808
Ba 389.178	0.3090	ppb	0.2377	76.9	-30.8956	0.30898
Be 313.042	0.0317	ppb	0.0046	14.5	-255.580	0.03173
Ca 370.602	2.905	ppb	1.854	63.8	30.49	2.90514
Cd 226.502	-0.0157	ppb	0.0213	135.4	29.4068	-0.01573
Co 228.615	-0.4793	ppb	0.0616	12.8	-5.1453	-0.47934
Cr 267.716	0.4816	ppb	0.0393	8.2	56.5930	0.48157
Cu 324.754	0.3630	ppb	0.1566	43.1	216.807	0.36300
Fe 271.441	6.5774	ppb	2.6459	40.2	25.2053	6.57740
K 766.491	1.7684	ppb	0.1275	7.2	299.715	1.76838
Mg 279.078	3.4429	ppb	1.9521	56.7	32.3312	3.44292
Mn 257.610	0.4582	ppb	0.0756	16.5	172.533	0.45823
Mo 202.032	0.1713	ppb	0.1833	107.0	10.8761	0.17134
Na 330.237	-38.6751	ppb	172.403	445.8	27.7028	-38.67508
Ni 231.604	0.9221	ppb	0.5865	63.6	-3.1618	0.92206
Pb 220.353	-1.2328	ppb	1.4641	118.8	10.5681	-1.23277
Sb 206.834	3.8857	ppb	2.2096	56.9	0.3642	3.88568
Se 196.026	1.6659	ppb	5.8417	350.7	5.1499	1.66588
Sn 189.925	-0.2245	ppb	2.2970	1023.2	-5.5223	-0.22450
Sr 216.596	0.2907	ppb	0.2318	79.8	8.6296	0.29066
Ti 334.941	0.2552	ppb	0.0123	4.8	79.1646	0.25524
Tl 190.794	-1.1305	ppb	0.6585	58.2	-9.2615	-1.13049
V 292.401	0.9440	ppb	0.0772	8.2	4.5668	0.94401
Zn 206.200	1.4989	ppb	0.7096	47.3	2.1387	1.49890

680-105547-a-1-ae (Samp) **11/14/2014, 3:58:51 PM** **Rack 1, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	11.6413	11.5787	11.4912
Al 308.215	219.955	221.124	220.792
As 188.980	23.1982	21.8927	27.0316
B 249.678	113.942	113.711	113.767
Ba 389.178	10.6243	11.0582	10.5071
Be 313.042	4.5087	4.5048	4.5071
Ca 370.602	542.7	548.2	541.8
Cd 226.502	5.5945	5.2730	5.4188
Co 228.615	10.1221	10.5783	10.5841
Cr 267.716	11.5890	11.4013	11.5852

Label	Replicates Concentration		
Cu 324.754	23.0937	23.4894	23.3536
Fe 271.441	55.3755	54.6712	58.0964
K 766.491	1080.48	1076.06	1074.22
Mg 279.078	542.842	540.279	539.776
Mn 257.610	11.5790	11.5856	11.5941
Mo 202.032	10.6274	10.3437	10.2178
Na 330.237	1189.20	1145.46	1226.04
Ni 231.604	45.0169	43.8755	45.8830
Pb 220.353	12.4095	9.2490	10.1919
Sb 206.834	20.9750	24.9054	24.6534
Se 196.026	21.8464	21.0338	21.9660
Sn 189.925	53.9492	55.1478	54.4918
Sr 216.596	10.8027	10.6096	10.9162
Ti 334.941	11.0057	10.9631	11.0143
Tl 190.794	26.8644	27.1396	29.0709
V 292.401	11.1932	10.8996	10.9299
Zn 206.200	28.3949	27.5203	28.7752

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	11.5704	ppb	0.0754	0.7	895.366
Al 308.215	220.624	ppb	0.6026	0.3	1897.29
As 188.980	24.0408	ppb	2.6711	11.1	9.9455
B 249.678	113.807	ppb	0.1203	0.1	1899.73
Ba 389.178	10.7299	ppb	0.2903	2.7	199.280
Be 313.042	4.5068	ppb	0.0020	0.0	8181.28
Ca 370.602	544.2	ppb	3.450	0.6	1485
Cd 226.502	5.4288	ppb	0.1610	3.0	273.388
Co 228.615	10.4282	ppb	0.2651	2.5	125.719
Cr 267.716	11.5252	ppb	0.1073	0.9	655.344
Cu 324.754	23.3122	ppb	0.2011	0.9	1763.62
Fe 271.441	56.0477	ppb	1.8088	3.2	106.034
K 766.491	1076.92	ppb	3.2169	0.3	43518.7
Mg 279.078	540.966	ppb	1.6442	0.3	1491.64
Mn 257.610	11.5862	ppb	0.0075	0.1	2505.54
Mo 202.032	10.3963	ppb	0.2098	2.0	79.4629
Na 330.237	1186.90	ppb	40.3391	3.4	80.9244
Ni 231.604	44.9251	ppb	1.0069	2.2	136.769
Pb 220.353	10.6168	ppb	1.6225	15.3	29.9564
Sb 206.834	23.5113	ppb	2.2001	9.4	27.5257
Se 196.026	21.6154	ppb	0.5072	2.3	14.1360
Sn 189.925	54.5296	ppb	0.6002	1.1	36.0736
Sr 216.596	10.7762	ppb	0.1550	1.4	141.074
Ti 334.941	10.9944	ppb	0.0274	0.2	3207.79
Tl 190.794	27.6916	ppb	1.2024	4.3	21.0284
V 292.401	11.0076	ppb	0.1615	1.5	259.544
Zn 206.200	28.2301	ppb	0.6435	2.3	33.6313

640-49582-a-2-c^10 (Samp) **11/14/2014, 4:03:06 PM** **Rack 1, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1302	-0.0861u	0.3363
Al 308.215	73.3025	74.4142	75.0377
As 188.980	1.2811	-1.6934u	-2.9045u

Label	Replicates Concentration		
B 249.678	127.321	127.041	126.452
Ba 389.178	8.7014	8.9122	8.3316
Be 313.042	0.0002u	0.0069	0.0095
Ca 370.602	1938	1938	1921
Cd 226.502	-0.0953u	0.0356	0.0296
Co 228.615	-0.3787u	0.0652	-0.2263u
Cr 267.716	4.2803	4.2455	4.3693
Cu 324.754	0.1111	-0.1412u	0.3301
Fe 271.441	230.147	227.426	230.254
K 766.491	7110.17	7079.80	7077.92
Mg 279.078	488.887	487.384	483.113
Mn 257.610	5.6801	5.6551	5.7022
Mo 202.032	-0.6472u	-0.3018u	-0.1970u
Na 330.237	14890.9	14705.4	14816.3
Ni 231.604	1.4264	0.8907	1.2773
Pb 220.353	-0.4298u	-0.3415u	0.7840
Sb 206.834	0.8896	-1.0705u	2.2205
Se 196.026	-0.1156u	1.7834	1.4027
Sn 189.925	-0.3971u	2.8969	0.4905
Sr 216.596	14.2736	14.2649	13.9924
Ti 334.941	0.2087	0.2359	0.2132
Tl 190.794	-1.9407u	-2.6128u	0.9736
V 292.401	1.0355	1.1211	1.1504
Zn 206.200	2.6707	1.5918	1.3138

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1268	ppb	0.2113	166.6	-24.6730
Al 308.215	74.2515	ppb	0.8790	1.2	932.321
As 188.980	-1.1056	ppb	2.1538	194.8	-6.8154
B 249.678	126.938	ppb	0.4437	0.3	2113.36
Ba 389.178	8.6484	ppb	0.2939	3.4	153.491
Be 313.042	0.0055	ppb	0.0048	86.9	-306.242
Ca 370.602	1932	ppb	9.608	0.5	5196
Cd 226.502	-0.0100	ppb	0.0739	736.5	30.6431
Co 228.615	-0.1799	ppb	0.2255	125.3	-1.5083
Cr 267.716	4.2984	ppb	0.0639	1.5	263.964
Cu 324.754	0.1000	ppb	0.2358	235.9	199.149
Fe 271.441	229.276	ppb	1.6026	0.7	382.937
K 766.491	7089.29	ppb	18.1028	0.3	285205
Mg 279.078	486.461	ppb	2.9956	0.6	1343.81
Mn 257.610	5.6792	ppb	0.0235	0.4	1269.33
Mo 202.032	-0.3820	ppb	0.2356	61.7	7.1530
Na 330.237	14804.2	ppb	93.3627	0.6	678.574
Ni 231.604	1.1981	ppb	0.2765	23.1	-2.2649
Pb 220.353	0.0042	ppb	0.6767	15980.5	12.6130
Sb 206.834	0.6799	ppb	1.6555	243.5	-4.0150
Se 196.026	1.0235	ppb	1.0047	98.2	4.8637
Sn 189.925	0.9968	ppb	1.7044	171.0	-4.5898
Sr 216.596	14.1770	ppb	0.1599	1.1	186.582
Ti 334.941	0.2193	ppb	0.0146	6.7	68.4031
Tl 190.794	-1.1933	ppb	1.9064	159.8	-9.3555
V 292.401	1.1023	ppb	0.0597	5.4	8.3671
Zn 206.200	1.8588	ppb	0.7167	38.6	2.5460

mb 680-358676/1-a (Samp) **11/14/2014, 4:07:22 PM** **Rack 1, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1946	0.5583	-0.0439u
Al 308.215	2.5104	2.6127	1.0483
As 188.980	-0.3382u	2.5876	-1.0420u
B 249.678	5.1702	4.7943	4.4626
Ba 389.178	-0.7831u	-0.0778u	0.4705
Be 313.042	0.0056	0.0044	0.0011
Ca 370.602	10.98	13.20	19.48
Cd 226.502	0.0449	-0.1286u	-0.0800u
Co 228.615	-0.0373u	-0.7807u	-0.5548u
Cr 267.716	0.6251	0.5005	0.4931
Cu 324.754	0.1994	0.0676	0.1277
Fe 271.441	6.0579	10.1573	9.2789
K 766.491	28.5105	28.5741	28.0969
Mg 279.078	5.4569	5.5865	2.2170
Mn 257.610	0.0925	0.0759	0.0925
Mo 202.032	-0.8543u	-0.6576u	-0.1167u
Na 330.237	-58.8170u	-114.844u	-100.310u
Ni 231.604	-0.0697u	1.0427	0.6274
Pb 220.353	-1.0306u	0.1432	-0.4312u
Sb 206.834	-1.5016u	2.0414	0.4912
Se 196.026	2.7136	1.8941	-1.1555u
Sn 189.925	11.6901	9.4793	7.2292
Sr 216.596	0.3286	-0.1844u	0.1169
Ti 334.941	0.0766	0.0752	0.1286
Tl 190.794	1.8420	-0.9590u	-0.3549u
V 292.401	0.1946	0.1372	0.4780
Zn 206.200	1.3269	3.5091	3.1423

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2363	ppb	0.3033	128.3	-15.3967
Al 308.215	2.0572	ppb	0.8752	42.5	456.965
As 188.980	0.4025	ppb	1.9248	478.2	-5.8086
B 249.678	4.8090	ppb	0.3540	7.4	120.535
Ba 389.178	-0.1301	ppb	0.6284	483.0	-40.5458
Be 313.042	0.0037	ppb	0.0023	62.1	-308.312
Ca 370.602	14.55	ppb	4.410	30.3	61.61
Cd 226.502	-0.0546	ppb	0.0895	164.0	27.6692
Co 228.615	-0.4576	ppb	0.3811	83.3	-4.8759
Cr 267.716	0.5395	ppb	0.0742	13.7	59.7401
Cu 324.754	0.1316	ppb	0.0659	50.1	201.193
Fe 271.441	8.4980	ppb	2.1584	25.4	28.3033
K 766.491	28.3938	ppb	0.2591	0.9	1370.01
Mg 279.078	4.4201	ppb	1.9091	43.2	34.9931
Mn 257.610	0.0870	ppb	0.0096	11.1	94.8423
Mo 202.032	-0.5429	ppb	0.3820	70.4	6.0851
Na 330.237	-91.3238	ppb	29.0745	31.8	25.3791
Ni 231.604	0.5335	ppb	0.5622	105.4	-4.3981
Pb 220.353	-0.4395	ppb	0.5870	133.5	11.8679
Sb 206.834	0.3437	ppb	1.7761	516.8	-4.5274
Se 196.026	1.1507	ppb	2.0389	177.2	4.9178
Sn 189.925	9.4662	ppb	2.2305	23.6	1.8395
Sr 216.596	0.0870	ppb	0.2578	296.2	6.0528

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.0934	ppb	0.0304	32.5	32.0426
Tl 190.794	0.1760	ppb	1.4741	837.4	-7.8874
V 292.401	0.2699	ppb	0.1824	67.6	-12.5515
Zn 206.200	2.6594	ppb	1.1685	43.9	3.5070

lcs 680-358676/2-a (Samp) **11/14/2014, 4:11:38 PM** **Rack 1, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.3307	52.1979	51.8333
Al 308.215	4839.17	4814.65	4865.52
As 188.980	99.5601	96.5792	96.4403
B 249.678	189.687	189.216	190.388
Ba 389.178	97.8507	96.9768	98.2264
Be 313.042	49.9284	49.7762	49.8683
Ca 370.602	4878	4866	4883
Cd 226.502	50.2293	50.2061	49.9429
Co 228.615	49.6766	49.7656	49.5946
Cr 267.716	103.091	102.392	102.641
Cu 324.754	100.806	100.924	101.900
Fe 271.441	4909.16	4895.72	4897.81
K 766.491	5005.45	4992.82	4994.71
Mg 279.078	4839.00	4815.73	4822.93
Mn 257.610	513.554	510.897	511.645
Mo 202.032	96.8299	96.6882	97.0752
Na 330.237	4768.16	4760.91	4578.83
Ni 231.604	99.9235	98.8235	100.394
Pb 220.353	497.332	489.007	490.102
Sb 206.834	51.5814	46.7728	48.3106
Se 196.026	93.8611	96.5570	96.9911
Sn 189.925	204.358	197.890	202.134
Sr 216.596	98.3141	97.7859	98.0326
Ti 334.941	98.7768	98.2585	98.5153
Tl 190.794	39.3583	38.0281	38.5483
V 292.401	99.0183	98.9220	98.8613
Zn 206.200	101.357	100.409	102.553

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.7873	ppb	0.4354	0.8	4127.01
Al 308.215	4839.78	ppb	25.4369	0.5	32317.0
As 188.980	97.5265	ppb	1.7625	1.8	58.8752
B 249.678	189.764	ppb	0.5898	0.3	3128.83
Ba 389.178	97.6846	ppb	0.6411	0.7	2122.92
Be 313.042	49.8576	ppb	0.0766	0.2	93683.0
Ca 370.602	4876	ppb	8.781	0.2	13089
Cd 226.502	50.1261	ppb	0.1591	0.3	2297.78
Co 228.615	49.6789	ppb	0.0855	0.2	596.789
Cr 267.716	102.708	ppb	0.3544	0.3	5603.03
Cu 324.754	101.210	ppb	0.6002	0.6	7017.12
Fe 271.441	4900.89	ppb	7.2338	0.1	7893.08
K 766.491	4997.66	ppb	6.8101	0.1	201126
Mg 279.078	4825.89	ppb	11.9119	0.2	13115.1
Mn 257.610	512.032	ppb	1.3703	0.3	107286
Mo 202.032	96.8644	ppb	0.1958	0.2	659.266

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	4702.63	ppb	107.282	2.3	232.635
Ni 231.604	99.7136	ppb	0.8058	0.8	311.355
Pb 220.353	492.147	ppb	4.5235	0.9	818.645
Sb 206.834	48.8883	ppb	2.4558	5.0	62.5052
Se 196.026	95.8030	ppb	1.6957	1.8	47.6980
Sn 189.925	201.461	ppb	3.2862	1.6	147.695
Sr 216.596	98.0442	ppb	0.2643	0.3	1258.45
Ti 334.941	98.5169	ppb	0.2591	0.3	28706.6
Tl 190.794	38.6449	ppb	0.6703	1.7	32.0078
V 292.401	98.9339	ppb	0.0792	0.1	2486.61
Zn 206.200	101.440	ppb	1.0748	1.1	119.566

680-107217-e-1-a (Samp) **11/14/2014, 4:15:54 PM** **Rack 1, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.5191	1.3705	1.3262
Al 308.215	37767.0	37789.5	37729.7
As 188.980	21.5536	22.4921	14.5648
B 249.678	19.3498	19.0076	18.3254
Ba 389.178	376.080	376.199	376.581
Be 313.042	1.4940	1.4907	1.4980
Ca 370.602	55818	55663	55567
Cd 226.502	4.5698	4.5157	4.6406
Co 228.615	3.7193	5.0132	4.6668
Cr 267.716	42.6257	42.6874	42.5552
Cu 324.754	75.2022	75.1579	74.6123
Fe 271.441	4510.26	4492.80	4504.48
K 766.491	2196.32	2201.90	2198.56
Mg 279.078	3471.93	3474.43	3462.46
Mn 257.610	1092.78	1093.93	1091.94
Mo 202.032	4.5063	4.9765	4.3154
Na 330.237	6982.92	7054.41	6956.95
Ni 231.604	33.8955	34.3891	33.7021
Pb 220.353	22.5293	20.4177	23.1107
Sb 206.834	3.7121	0.5900	-0.0921
Se 196.026	11.5556	3.0012	9.2363
Sn 189.925	13.3704	12.4216	14.8967
Sr 216.596	191.652	191.420	190.934
Ti 334.941	252.920	253.085	252.733
Tl 190.794	-0.4119u	3.6381	-0.0688u
V 292.401	97.2259	97.2991	96.7585
Zn 206.200	571.274	573.036	566.353

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.4053	ppb	0.1010	7.2	77.1609
Al 308.215	37762.1	ppb	30.1661	0.1	249029
As 188.980	19.5368	ppb	4.3314	22.2	6.9156
B 249.678	18.8943	ppb	0.5216	2.8	340.221
Ba 389.178	376.287	ppb	0.2615	0.1	8240.99
Be 313.042	1.4942	ppb	0.0036	0.2	2528.78
Ca 370.602	55683	ppb	126.6	0.2	149273
Cd 226.502	4.5754	ppb	0.0627	1.4	256.139
Co 228.615	4.4664	ppb	0.6698	15.0	60.1343

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	42.6227	ppb	0.0662	0.2	2348.99
Cu 324.754	74.9908	ppb	0.3286	0.4	5246.62
Fe 271.441	4502.52	ppb	8.8952	0.2	7247.81
K 766.491	2198.93	ppb	2.8101	0.1	88621.5
Mg 279.078	3469.61	ppb	6.3150	0.2	9407.84
Mn 257.610	1092.88	ppb	0.9986	0.1	228837
Mo 202.032	4.5994	ppb	0.3402	7.4	40.2722
Na 330.237	6998.09	ppb	50.4690	0.7	324.357
Ni 231.604	33.9956	ppb	0.3542	1.0	102.428
Pb 220.353	22.0192	ppb	1.4171	6.4	48.5321
Sb 206.834	1.4033	ppb	2.0284	144.5	-2.5346
Se 196.026	7.9310	ppb	4.4241	55.8	8.2560
Sn 189.925	13.5629	ppb	1.2487	9.2	4.9538
Sr 216.596	191.335	ppb	0.3666	0.2	2469.67
Ti 334.941	252.913	ppb	0.1758	0.1	73673.1
Tl 190.794	1.0525	ppb	2.2458	213.4	-6.9574
V 292.401	97.0945	ppb	0.2933	0.3	2460.69
Zn 206.200	570.221	ppb	3.4638	0.6	672.456

680-107217-e-1-aSD^5 (Samp) **11/14/2014, 4:20:10 PM** **Rack 1, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.9251	0.6979	0.8383
Al 308.215	8231.47	8264.39	8257.66
As 188.980	7.8577	6.4949	6.9132
B 249.678	5.4914	5.6842	4.8509
Ba 389.178	83.2478	82.9527	83.5234
Be 313.042	0.3173	0.3083	0.3195
Ca 370.602	12163	12207	12288
Cd 226.502	0.9760	0.9428	1.0117
Co 228.615	1.1195	0.9910	1.2996
Cr 267.716	9.5007	9.4809	9.4608
Cu 324.754	16.6268	17.0221	16.5888
Fe 271.441	1008.01	1017.29	1016.74
K 766.491	468.305	464.778	468.352
Mg 279.078	776.746	780.045	782.232
Mn 257.610	244.003	245.288	244.573
Mo 202.032	0.6775	1.3676	1.2367
Na 330.237	1642.92	1277.98	1512.51
Ni 231.604	8.1067	8.4870	8.7319
Pb 220.353	3.9311	4.3223	5.1479
Sb 206.834	0.5919	1.2420	1.0817
Se 196.026	2.4215	-1.5817u	4.9819
Sn 189.925	3.5907	7.3389	0.2340
Sr 216.596	42.4317	42.5903	42.6637
Ti 334.941	55.6033	55.7662	55.7735
Tl 190.794	-1.0599u	-0.7793u	-1.6432u
V 292.401	21.8093	21.6237	22.0055
Zn 206.200	125.627	127.867	127.630

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8204	ppb	0.1147	14.0	31.2480
Al 308.215	8251.17	ppb	17.3941	0.2	54760.4

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	7.0886	ppb	0.6982	9.8	-1.3586
B 249.678	5.3422	ppb	0.4363	8.2	126.968
Ba 389.178	83.2413	ppb	0.2854	0.3	1793.73
Be 313.042	0.3150	ppb	0.0059	1.9	284.497
Ca 370.602	12219	ppb	63.44	0.5	32774
Cd 226.502	0.9768	ppb	0.0344	3.5	78.6049
Co 228.615	1.1367	ppb	0.1550	13.6	15.5556
Cr 267.716	9.4808	ppb	0.0200	0.2	546.212
Cu 324.754	16.7459	ppb	0.2399	1.4	1321.00
Fe 271.441	1014.02	ppb	5.2085	0.5	1643.68
K 766.491	467.145	ppb	2.0502	0.4	19007.0
Mg 279.078	779.675	ppb	2.7619	0.4	2132.02
Mn 257.610	244.621	ppb	0.6443	0.3	51280.3
Mo 202.032	1.0939	ppb	0.3665	33.5	16.9964
Na 330.237	1477.80	ppb	184.928	12.5	91.5736
Ni 231.604	8.4419	ppb	0.3150	3.7	20.8433
Pb 220.353	4.4671	ppb	0.6212	13.9	19.8799
Sb 206.834	0.9719	ppb	0.3387	34.8	-3.5539
Se 196.026	1.9406	ppb	3.3081	170.5	5.3373
Sn 189.925	3.7212	ppb	3.5542	95.5	-2.5244
Sr 216.596	42.5619	ppb	0.1186	0.3	553.137
Ti 334.941	55.7143	ppb	0.0962	0.2	16233.3
Tl 190.794	-1.1608	ppb	0.4407	38.0	-9.2908
V 292.401	21.8129	ppb	0.1909	0.9	537.665
Zn 206.200	127.041	ppb	1.2304	1.0	150.107

680-107217-e-1-aPDS (Samp) **11/14/2014, 4:24:27 PM** **Rack 1, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	119.913	119.620	119.628
Al 308.215	38703.7	38610.3	38704.2
As 188.980	139.510	139.017	139.536
B 249.678	236.890	237.052	238.041
Ba 389.178	470.292	471.489	471.145
Be 313.042	114.599	114.457	114.751
Ca 370.602	66563	66628	66592
Cd 226.502	115.568	115.403	115.719
Co 228.615	117.161	117.714	117.478
Cr 267.716	157.819	157.026	157.321
Cu 324.754	190.203	192.281	191.875
Fe 271.441	15641.9	15594.2	15647.6
K 766.491	13968.0	13922.0	13963.5
Mg 279.078	14549.6	14496.5	14535.6
Mn 257.610	2252.94	2247.92	2253.91
Mo 202.032	115.182	115.868	115.669
Na 330.237	16747.2	16949.4	17102.9
Ni 231.604	145.666	146.548	146.149
Pb 220.353	133.887	132.914	133.271
Sb 206.834	114.039	109.699	109.907
Se 196.026	126.794	132.307	129.403
Sn 189.925	122.212	122.536	122.497
Sr 216.596	300.237	299.676	299.047
Ti 334.941	357.678	356.827	357.910

Label	Replicates Concentration		
Tl 190.794	25.4369	20.3288	25.7235
V 292.401	209.171	209.277	209.503
Zn 206.200	673.062	676.765	674.219

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	119.721	ppb	0.1668	0.1	9587.90
Al 308.215	38672.7	ppb	54.0866	0.1	255041
As 188.980	139.354	ppb	0.2919	0.2	86.6820
B 249.678	237.328	ppb	0.6232	0.3	3881.69
Ba 389.178	470.975	ppb	0.6163	0.1	10353.3
Be 313.042	114.602	ppb	0.1474	0.1	215785
Ca 370.602	66594	ppb	32.40	0.0	178466
Cd 226.502	115.563	ppb	0.1581	0.1	5278.73
Co 228.615	117.451	ppb	0.2774	0.2	1416.49
Cr 267.716	157.389	ppb	0.4009	0.3	8580.77
Cu 324.754	191.453	ppb	1.1014	0.6	13102.0
Fe 271.441	15627.9	ppb	29.2981	0.2	25131.2
K 766.491	13951.2	ppb	25.3468	0.2	561041
Mg 279.078	14527.3	ppb	27.5215	0.2	39410.1
Mn 257.610	2251.59	ppb	3.2119	0.1	471447
Mo 202.032	115.573	ppb	0.3526	0.3	784.167
Na 330.237	16933.2	ppb	178.414	1.1	755.629
Ni 231.604	146.121	ppb	0.4416	0.3	459.743
Pb 220.353	133.357	ppb	0.4922	0.4	231.668
Sb 206.834	111.215	ppb	2.4481	2.2	149.438
Se 196.026	129.501	ppb	2.7578	2.1	63.3591
Sn 189.925	122.415	ppb	0.1764	0.1	87.6498
Sr 216.596	299.653	ppb	0.5955	0.2	3864.50
Ti 334.941	357.471	ppb	0.5703	0.2	104146
Tl 190.794	23.8297	ppb	3.0353	12.7	15.9744
V 292.401	209.317	ppb	0.1694	0.1	5301.35
Zn 206.200	674.682	ppb	1.8942	0.3	794.945

680-107217-e-1-b ms (Samp) **11/14/2014, 4:28:44 PM** **Rack 1, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.4452	53.2315	53.4094
Al 308.215	44856.7	44831.5	44924.5
As 188.980	121.369	120.748	125.102
B 249.678	189.627	188.195	190.458
Ba 389.178	491.793	491.542	491.579
Be 313.042	51.9293	51.9037	51.9346
Ca 370.602	62219	62183	61935
Cd 226.502	54.2738	53.9524	54.2934
Co 228.615	54.2566	54.8003	54.5973
Cr 267.716	146.306	146.365	146.065
Cu 324.754	182.740	181.083	182.898
Fe 271.441	9663.75	9636.56	9642.77
K 766.491	7985.65	7977.23	7993.60
Mg 279.078	8481.29	8475.13	8480.15
Mn 257.610	1639.22	1638.30	1646.01
Mo 202.032	100.351	99.5852	100.102
Na 330.237	12097.3	11835.3	12278.1

Label	Replicates Concentration		
Ni 231.604	135.784	136.290	136.467
Pb 220.353	513.399	508.478	511.542
Sb 206.834	40.4542	37.8766	35.0751
Se 196.026	106.770	101.078	102.697
Sn 189.925	203.780	202.115	208.062
Sr 216.596	298.315	296.851	297.130
Ti 334.941	375.683	375.784	375.776
Tl 190.794	42.0873	39.8034	39.8984
V 292.401	194.917	194.901	194.215
Zn 206.200	680.183	679.943	680.594

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.3620	ppb	0.1144	0.2	4252.05
Al 308.215	44870.9	ppb	48.0997	0.1	295838
As 188.980	122.406	ppb	2.3551	1.9	75.4282
B 249.678	189.427	ppb	1.1449	0.6	3112.41
Ba 389.178	491.638	ppb	0.1355	0.0	10790.4
Be 313.042	51.9225	ppb	0.0165	0.0	97604.0
Ca 370.602	62112	ppb	154.9	0.2	166511
Cd 226.502	54.1732	ppb	0.1914	0.4	2501.36
Co 228.615	54.5514	ppb	0.2747	0.5	661.809
Cr 267.716	146.245	ppb	0.1588	0.1	7971.49
Cu 324.754	182.241	ppb	1.0052	0.6	12478.5
Fe 271.441	9647.69	ppb	14.2431	0.1	15518.6
K 766.491	7985.49	ppb	8.1886	0.1	321231
Mg 279.078	8478.85	ppb	3.2788	0.0	22996.3
Mn 257.610	1641.17	ppb	4.2099	0.3	343636
Mo 202.032	100.013	ppb	0.3904	0.4	680.063
Na 330.237	12070.3	ppb	222.654	1.8	543.578
Ni 231.604	136.181	ppb	0.3546	0.3	427.763
Pb 220.353	511.140	ppb	2.4852	0.5	849.619
Sb 206.834	37.8020	ppb	2.6903	7.1	47.7356
Se 196.026	103.515	ppb	2.9325	2.8	51.4661
Sn 189.925	204.652	ppb	3.0680	1.5	150.122
Sr 216.596	297.432	ppb	0.7771	0.3	3826.69
Ti 334.941	375.748	ppb	0.0560	0.0	109458
Tl 190.794	40.5963	ppb	1.2920	3.2	34.0514
V 292.401	194.678	ppb	0.4007	0.2	4932.61
Zn 206.200	680.240	ppb	0.3293	0.0	801.753

680-107217-e-1-c msd (Samp) **11/14/2014, 4:33:01 PM** **Rack 1, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.2880	55.0552	54.9609
Al 308.215	45160.9	45138.3	45156.7
As 188.980	130.927	115.933	127.526
B 249.678	195.724	196.410	198.289
Ba 389.178	500.455	500.791	501.386
Be 313.042	52.9156	52.9300	52.9150
Ca 370.602	63127	63257	63282
Cd 226.502	55.2441	55.2032	55.2383
Co 228.615	55.2568	55.5751	56.1334
Cr 267.716	149.072	149.152	149.846

Label	Replicates Concentration		
Cu 324.754	185.455	186.502	185.576
Fe 271.441	9820.00	9822.52	9832.15
K 766.491	8063.11	8071.76	8086.43
Mg 279.078	8669.37	8657.37	8670.28
Mn 257.610	1663.55	1661.53	1662.13
Mo 202.032	102.050	102.629	102.268
Na 330.237	12092.0	11871.4	12468.8
Ni 231.604	137.613	136.614	137.979
Pb 220.353	522.259	527.721	517.103
Sb 206.834	35.3495	42.5778	39.1236
Se 196.026	109.954	114.032	108.148
Sn 189.925	208.446	209.473	202.250
Sr 216.596	302.497	301.466	302.489
Ti 334.941	383.303	383.330	383.808
Tl 190.794	39.7458	38.9819	40.5624
V 292.401	199.250	199.008	198.981
Zn 206.200	695.533	697.806	697.687

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.1014	ppb	0.1684	0.3	4391.84
Al 308.215	45152.0	ppb	12.0305	0.0	297689
As 188.980	124.795	ppb	7.8610	6.3	77.0189
B 249.678	196.808	ppb	1.3280	0.7	3232.50
Ba 389.178	500.877	ppb	0.4716	0.1	10993.9
Be 313.042	52.9202	ppb	0.0085	0.0	99485.3
Ca 370.602	63222	ppb	82.95	0.1	169486
Cd 226.502	55.2285	ppb	0.0222	0.0	2549.37
Co 228.615	55.6551	ppb	0.4437	0.8	675.165
Cr 267.716	149.357	ppb	0.4255	0.3	8140.38
Cu 324.754	185.844	ppb	0.5729	0.3	12721.4
Fe 271.441	9824.89	ppb	6.4116	0.1	15803.4
K 766.491	8073.77	ppb	11.7872	0.1	324779
Mg 279.078	8665.67	ppb	7.2048	0.1	23503.0
Mn 257.610	1662.40	ppb	1.0400	0.1	348081
Mo 202.032	102.316	ppb	0.2925	0.3	695.505
Na 330.237	12144.0	ppb	302.125	2.5	546.445
Ni 231.604	137.402	ppb	0.7065	0.5	431.660
Pb 220.353	522.361	ppb	5.3095	1.0	867.999
Sb 206.834	39.0169	ppb	3.6153	9.3	49.4178
Se 196.026	110.711	ppb	3.0145	2.7	54.7132
Sn 189.925	206.723	ppb	3.9078	1.9	151.695
Sr 216.596	302.150	ppb	0.5928	0.2	3887.34
Ti 334.941	383.480	ppb	0.2843	0.1	111710
Tl 190.794	39.7634	ppb	0.7904	2.0	33.1637
V 292.401	199.080	ppb	0.1480	0.1	5044.58
Zn 206.200	697.009	ppb	1.2792	0.2	821.512

CRI (Samp) **11/14/2014, 4:37:19 PM** **Rack 1, Tube 12**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.4469	10.3729	10.6211
Al 308.215	200.201	200.283	203.072
As 188.980	16.7493	18.2494	20.3420

Label	Replicates Concentration		
B 249.678	103.469	103.772	104.019
Ba 389.178	9.3809	10.8241	9.6480
Be 313.042	4.1144	4.1287	4.1532
Ca 370.602	529.5	524.2	538.8
Cd 226.502	4.8980	4.8486	4.9474
Co 228.615	10.2014	9.7549	9.7661
Cr 267.716	10.2458	10.4510	10.5628
Cu 324.754	21.2648	21.1396	21.4123
Fe 271.441	52.1710	50.9013	55.5801
K 766.491	1028.76	1031.63	1035.89
Mg 279.078	502.018	502.323	507.799
Mn 257.610	10.7975	10.8864	11.0009
Mo 202.032	9.5672	9.6462	8.9616
Na 330.237	980.657	1103.46	1095.64
Ni 231.604	40.6093	42.9021	42.1756
Pb 220.353	9.7647	12.0222	12.2956
Sb 206.834	18.6059	19.0620	24.5530
Se 196.026	18.5018	24.0365	28.2899
Sn 189.925	52.1879	49.4256	50.8957
Sr 216.596	9.9011	10.1932	10.0760
Ti 334.941	10.1324	10.1441	10.2239
Tl 190.794	27.1422	29.4308	25.5078
V 292.401	11.0603	11.0319	10.8542
Zn 206.200	20.9351	23.1625	22.7194

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.4803	ppb	0.1274	1.2	807.775
Al 308.215	201.186	ppb	1.6346	0.8	1769.31
As 188.980	18.4469	ppb	1.8045	9.8	6.2169
B 249.678	103.753	ppb	0.2759	0.3	1735.63
Ba 389.178	9.9510	ppb	0.7679	7.7	182.085
Be 313.042	4.1321	ppb	0.0196	0.5	7474.86
Ca 370.602	530.9	ppb	7.378	1.4	1449
Cd 226.502	4.8980	ppb	0.0494	1.0	249.606
Co 228.615	9.9075	ppb	0.2546	2.6	119.479
Cr 267.716	10.4199	ppb	0.1608	1.5	595.411
Cu 324.754	21.2722	ppb	0.1365	0.6	1626.10
Fe 271.441	52.8841	ppb	2.4196	4.6	100.889
K 766.491	1032.09	ppb	3.5890	0.3	41716.8
Mg 279.078	504.047	ppb	3.2531	0.6	1391.41
Mn 257.610	10.8949	ppb	0.1020	0.9	2360.58
Mo 202.032	9.3917	ppb	0.3745	4.0	72.7232
Na 330.237	1059.92	ppb	68.7559	6.5	75.4823
Ni 231.604	41.8957	ppb	1.1718	2.8	127.134
Pb 220.353	11.3608	ppb	1.3890	12.2	31.1757
Sb 206.834	20.7403	ppb	3.3097	16.0	23.6896
Se 196.026	23.6094	ppb	4.9080	20.8	15.0337
Sn 189.925	50.8364	ppb	1.3821	2.7	33.2679
Sr 216.596	10.0568	ppb	0.1470	1.5	132.009
Ti 334.941	10.1668	ppb	0.0498	0.5	2966.69
Tl 190.794	27.3603	ppb	1.9706	7.2	20.6826
V 292.401	10.9822	ppb	0.1117	1.0	259.137
Zn 206.200	22.2723	ppb	1.1791	5.3	26.6092

Cont Calib Verif (CCV) **11/14/2014, 4:41:35 PM** **Rack 1, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	504.222	508.210	503.073
Al 308.215	4864.47	4869.08	4875.61
As 188.980	468.397	467.109	480.758
B 249.678	492.148	493.861	498.130
Ba 389.178	4930.05	4928.85	4924.27
Be 313.042	496.769	496.569	498.513
Ca 370.602	4862	4861	4868
Cd 226.502	496.782	495.976	499.216
Co 228.615	500.812	502.724	504.680
Cr 267.716	5076.58	5066.21	5088.06
Cu 324.754	5136.05	5101.86	5054.96
Fe 271.441	4949.13	4937.98	4951.04
K 766.491	10247.8	10278.0	10230.5
Mg 279.078	4891.56	4880.35	4909.25
Mn 257.610	5051.84	5048.32	5061.54
Mo 202.032	491.640	489.871	494.822
Na 330.237	7105.48	7478.47	7423.23
Ni 231.604	2459.68	2457.15	2470.96
Pb 220.353	491.533	496.370	498.091
Sb 206.834	930.931	934.966	942.062
Se 196.026	4994.03	4954.84	5010.12
Sn 189.925	4879.89	4880.87	4914.02
Sr 216.596	2471.45	2466.55	2482.65
Ti 334.941	492.435	493.080	493.147
Tl 190.794	5024.00	4998.33	5025.15
V 292.401	4911.38	4903.27	4909.84
Zn 206.200	2502.72	2493.82	2514.64

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	505.168	ppb	2.6965	0.5	40526.6	101.03367
Al 308.215	4869.72	ppb	5.5991	0.1	33147.2	97.39440
As 188.980	472.088	ppb	7.5359	1.6	308.448	94.41762
B 249.678	494.713	ppb	3.0806	0.6	8118.87	98.94262
Ba 389.178	4927.72	ppb	3.0506	0.1	108264	98.55448
Be 313.042	497.284	ppb	1.0694	0.2	937517	99.45678
Ca 370.602	4864	ppb	4.316	0.1	13367	97.27022
Cd 226.502	497.325	ppb	1.6871	0.3	22318.9	99.46493
Co 228.615	502.739	ppb	1.9342	0.4	6041.19	100.54775
Cr 267.716	5076.95	ppb	10.9278	0.2	275278	101.53895
Cu 324.754	5097.62	ppb	40.7074	0.8	343675	101.95248
Fe 271.441	4946.05	ppb	7.0546	0.1	8060.35	98.92096
K 766.491	10252.1	ppb	24.0452	0.2	412344	102.52093
Mg 279.078	4893.72	ppb	14.5717	0.3	13205.8	97.87438
Mn 257.610	5053.90	ppb	6.8493	0.1	1057818	101.07803
Mo 202.032	492.111	ppb	2.5090	0.5	3305.84	98.42220
Na 330.237	7335.72	ppb	201.302	2.7	302.165	97.80964
Ni 231.604	2462.60	ppb	7.3516	0.3	7825.50	98.50394
Pb 220.353	495.332	ppb	3.4003	0.7	828.089	99.06630
Sb 206.834	935.986	ppb	5.6355	0.6	1348.30	93.59864
Se 196.026	4986.33	ppb	28.4341	0.6	2250.90	99.72660
Sn 189.925	4891.59	ppb	19.4310	0.4	3710.69	97.83189
Sr 216.596	2473.55	ppb	8.2490	0.3	31444.0	98.94204

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	492.887	ppb	0.3934	0.1	143566	98.57748
Tl 190.794	5015.83	ppb	15.1609	0.3	5270.79	100.31655
V 292.401	4908.16	ppb	4.3111	0.1	125189	98.16329
Zn 206.200	2503.73	ppb	10.4434	0.4	2941.16	100.14908

Cont Calib Blank (CCB) **11/14/2014, 4:45:49 PM** **Rack 1, Tube 14**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1123	0.4369	0.3105
Al 308.215	0.7869	-0.3758u	0.7445
As 188.980	5.7841	4.4306	-3.1439u
B 249.678	9.0347	8.4704	7.7322
Ba 389.178	0.4040	0.4816	0.2705
Be 313.042	0.0263	0.0323	0.0340
Ca 370.602	-3.070u	0.7048	-3.836u
Cd 226.502	-0.0614u	0.1694	-0.0291u
Co 228.615	-0.4867u	-0.7524u	0.0547
Cr 267.716	0.3786	0.3831	0.4352
Cu 324.754	0.4336	0.3094	0.7863
Fe 271.441	-4.1987u	-3.3229u	1.1701
K 766.491	0.4666	0.8252	1.2031
Mg 279.078	0.7301	-2.7304u	2.2871
Mn 257.610	0.3286	0.3542	0.4367
Mo 202.032	0.4012	-0.0258u	0.2328
Na 330.237	24.3441	-147.211u	116.123
Ni 231.604	0.3342	0.6508	0.5958
Pb 220.353	0.4494	-1.7602u	0.2444
Sb 206.834	1.8583	4.4682	2.5575
Se 196.026	2.1153	10.8808	3.1332
Sn 189.925	3.0721	-0.7319u	2.1168
Sr 216.596	0.2020	0.1307	0.5517
Ti 334.941	0.1336	0.0716	0.0932
Tl 190.794	0.6968	-1.6096u	0.1796
V 292.401	0.4243	0.5850	1.0153
Zn 206.200	1.4108	0.3424	-0.4566u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2866	ppb	0.1636	57.1	-11.3575	0.28655
Al 308.215	0.3852	ppb	0.6594	171.2	446.010	0.38521
As 188.980	2.3570	ppb	4.8117	204.1	-4.5059	2.35696
B 249.678	8.4124	ppb	0.6532	7.8	179.403	8.41245
Ba 389.178	0.3854	ppb	0.1068	27.7	-29.2300	0.38539
Be 313.042	0.0308	ppb	0.0040	13.1	-257.279	0.03084
Ca 370.602	-2.067	ppb	2.431	117.6	17.18	-2.06700
Cd 226.502	0.0263	ppb	0.1250	474.7	31.2500	0.02633
Co 228.615	-0.3948	ppb	0.4113	104.2	-4.1366	-0.39481
Cr 267.716	0.3990	ppb	0.0315	7.9	52.1100	0.39896
Cu 324.754	0.5097	ppb	0.2474	48.5	226.697	0.50975
Fe 271.441	-2.1172	ppb	2.8803	136.0	11.2590	-2.11716
K 766.491	0.8317	ppb	0.3683	44.3	262.060	0.83166
Mg 279.078	0.0956	ppb	2.5683	2686.4	23.2443	0.09560
Mn 257.610	0.3731	ppb	0.0565	15.1	154.678	0.37315
Mo 202.032	0.2028	ppb	0.2151	106.1	11.0876	0.20276

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	-2.2478	ppb	133.666	5946.4	29.3208	-2.24783
Ni 231.604	0.5269	ppb	0.1692	32.1	-4.4197	0.52692
Pb 220.353	-0.3555	ppb	1.2209	343.5	12.0038	-0.35546
Sb 206.834	2.9613	ppb	1.3510	45.6	-0.9181	2.96132
Se 196.026	5.3765	ppb	4.7940	89.2	6.8206	5.37647
Sn 189.925	1.4857	ppb	1.9790	133.2	-4.2231	1.48569
Sr 216.596	0.2948	ppb	0.2253	76.4	8.6770	0.29483
Ti 334.941	0.0995	ppb	0.0314	31.6	33.7952	0.09947
Tl 190.794	-0.2444	ppb	1.2102	495.2	-8.3293	-0.24441
V 292.401	0.6749	ppb	0.3056	45.3	-2.3102	0.67489
Zn 206.200	0.4322	ppb	0.9370	216.8	0.8816	0.43221

mb 680-358584/1-b (Samp) **11/14/2014, 4:50:04 PM** **Rack 1, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3023	0.0361	-0.1529u
Al 308.215	0.3714	0.5268	0.6957
As 188.980	-0.2957u	-2.4687u	-2.4309u
B 249.678	3.3066	4.2905	3.5156
Ba 389.178	-0.3472u	-0.3635u	0.4364
Be 313.042	0.0100	0.0045	0.0031
Ca 370.602	1.804	5.339	6.377
Cd 226.502	0.0106	-0.1540u	0.0215
Co 228.615	-0.0233u	-0.3684u	0.1252
Cr 267.716	0.1408	0.1047	0.1015
Cu 324.754	-0.0892u	0.2321	0.1700
Fe 271.441	3.2280	1.6758	-3.6597u
K 766.491	1.5187	1.1901	0.4767
Mg 279.078	0.0708	-0.6687u	3.8354
Mn 257.610	0.0727	0.0453	0.0624
Mo 202.032	-0.6954u	-0.0053u	-0.4974u
Na 330.237	-137.905u	-174.668u	-195.907u
Ni 231.604	0.7752	0.2409	-0.2661u
Pb 220.353	-1.9929u	0.4219	-0.8013u
Sb 206.834	-0.0785u	0.6520	3.3592
Se 196.026	3.3698	11.2717	1.5125
Sn 189.925	0.6392	-0.0029u	-2.5803u
Sr 216.596	0.6290	0.1776	0.1528
Ti 334.941	-0.0988u	-0.1253u	-0.0949u
Tl 190.794	1.0467	-1.3622u	0.0196
V 292.401	0.5599	0.5077	0.6123
Zn 206.200	3.8824	3.8045	3.8692

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0619	ppb	0.2287	369.7	-29.4302
Al 308.215	0.5313	ppb	0.1622	30.5	446.934
As 188.980	-1.7318	ppb	1.2438	71.8	-7.2313
B 249.678	3.7042	ppb	0.5184	14.0	102.540
Ba 389.178	-0.0914	ppb	0.4572	500.0	-39.7072
Be 313.042	0.0058	ppb	0.0036	62.3	-304.330
Ca 370.602	4.507	ppb	2.397	53.2	34.68
Cd 226.502	-0.0406	ppb	0.0983	242.0	28.2637
Co 228.615	-0.0888	ppb	0.2533	285.1	-0.4510

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.1157	ppb	0.0218	18.9	36.7497
Cu 324.754	0.1043	ppb	0.1704	163.4	199.357
Fe 271.441	0.4147	ppb	3.6129	871.2	15.3614
K 766.491	1.0618	ppb	0.5327	50.2	271.313
Mg 279.078	1.0791	ppb	2.4154	223.8	25.9212
Mn 257.610	0.0601	ppb	0.0138	23.0	89.1820
Mo 202.032	-0.3994	ppb	0.3554	89.0	7.0480
Na 330.237	-169.493	ppb	29.3451	17.3	21.9310
Ni 231.604	0.2500	ppb	0.5207	208.3	-5.3011
Pb 220.353	-0.7908	ppb	1.2074	152.7	11.2918
Sb 206.834	1.3109	ppb	1.8111	138.2	-3.1977
Se 196.026	5.3847	ppb	5.1822	96.2	6.8243
Sn 189.925	-0.6480	ppb	1.7039	263.0	-5.8440
Sr 216.596	0.3198	ppb	0.2681	83.8	9.0172
Ti 334.941	-0.1063	ppb	0.0166	15.6	-26.1369
Tl 190.794	-0.0987	ppb	1.2088	1225.3	-8.1742
V 292.401	0.5600	ppb	0.0523	9.3	-5.1353
Zn 206.200	3.8520	ppb	0.0417	1.1	4.9144

lcs 680-358584/2-b (Samp) **11/14/2014, 4:54:19 PM** **Rack 1, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.4621	53.0616	53.1967
Al 308.215	5035.90	5038.32	5031.33
As 188.980	103.404	99.1070	104.908
B 249.678	202.946	204.090	203.941
Ba 389.178	100.309	99.5901	100.819
Be 313.042	52.6070	52.5442	52.4257
Ca 370.602	4980	4930	4938
Cd 226.502	51.6908	51.5586	51.4848
Co 228.615	51.2965	51.5719	52.0998
Cr 267.716	105.727	106.194	105.755
Cu 324.754	105.131	105.136	104.959
Fe 271.441	5078.52	5067.57	5071.63
K 766.491	5185.49	5176.32	5186.60
Mg 279.078	5027.48	5028.89	5012.34
Mn 257.610	529.598	531.478	530.918
Mo 202.032	101.224	101.000	99.0597
Na 330.237	5093.93	4926.42	5138.51
Ni 231.604	101.757	101.540	100.597
Pb 220.353	510.534	513.212	509.843
Sb 206.834	57.1266	51.2356	47.8171
Se 196.026	99.8157	98.6061	105.548
Sn 189.925	196.829	203.031	197.177
Sr 216.596	101.146	100.325	100.778
Ti 334.941	102.042	101.975	101.693
Tl 190.794	42.3263	41.4918	42.7650
V 292.401	103.292	102.786	102.788
Zn 206.200	106.161	104.148	106.815

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.2401	ppb	0.2037	0.4	4243.76
Al 308.215	5035.18	ppb	3.5508	0.1	33603.8

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	102.473	ppb	3.0104	2.9	62.1703
B 249.678	203.659	ppb	0.6223	0.3	3355.25
Ba 389.178	100.239	ppb	0.6172	0.6	2179.63
Be 313.042	52.5256	ppb	0.0920	0.2	98713.2
Ca 370.602	4949	ppb	27.35	0.6	13287
Cd 226.502	51.5781	ppb	0.1044	0.2	2363.63
Co 228.615	51.6561	ppb	0.4082	0.8	620.514
Cr 267.716	105.892	ppb	0.2619	0.2	5775.81
Cu 324.754	105.075	ppb	0.1006	0.1	7277.76
Fe 271.441	5072.57	ppb	5.5366	0.1	8169.07
K 766.491	5182.81	ppb	5.6419	0.1	208568
Mg 279.078	5022.90	ppb	9.1730	0.2	13649.6
Mn 257.610	530.664	ppb	0.9650	0.2	111187
Mo 202.032	100.428	ppb	1.1902	1.2	683.161
Na 330.237	5052.95	ppb	111.823	2.2	247.888
Ni 231.604	101.298	ppb	0.6169	0.6	316.405
Pb 220.353	511.196	ppb	1.7798	0.3	849.842
Sb 206.834	52.0598	ppb	4.7092	9.0	66.8833
Se 196.026	101.323	ppb	3.7086	3.7	50.1893
Sn 189.925	199.012	ppb	3.4848	1.8	145.835
Sr 216.596	100.750	ppb	0.4111	0.4	1293.11
Ti 334.941	101.903	ppb	0.1852	0.2	29693.3
Tl 190.794	42.1944	ppb	0.6468	1.5	35.7176
V 292.401	102.955	ppb	0.2915	0.3	2588.57
Zn 206.200	105.708	ppb	1.3897	1.3	124.584

680-107113-a-2-d (Samp) **11/14/2014, 4:58:34 PM** **Rack 1, Tube 17**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2354	0.1292	0.2406
Al 308.215	528.546	529.148	529.486
As 188.980	10.8570	10.8079	14.4903
B 249.678	37.2543	36.9945	36.8051
Ba 389.178	9.8238	9.8027	10.0518
Be 313.042	0.0081	0.0103	0.0018
Ca 370.602	67663	67802	67954
Cd 226.502	0.0111u	-0.1341u	-0.0720u
Co 228.615	-0.0526u	-0.1464u	-0.0291u
Cr 267.716	0.5079	0.6071	0.4531
Cu 324.754	4.5200	4.5535	4.6688
Fe 271.441	64.6303	55.8470	55.3444
K 766.491	1610.23	1619.62	1622.22
Mg 279.078	2102.58	2106.68	2109.05
Mn 257.610	0.5221	0.4922	0.4612
Mo 202.032	0.4948	-0.2446u	-0.7191u
Na 330.237	248568x	248406x	247477x
Ni 231.604	3.6899	1.6778	4.3971
Pb 220.353	0.0456	0.2610	-0.4888u
Sb 206.834	-0.5966u	1.7786	3.3777
Se 196.026	14.6978	9.5296	17.0846
Sn 189.925	-2.3181u	2.7467	2.5464
Sr 216.596	58.5936	58.2413	58.2460
Ti 334.941	12.6360	13.1091	13.0024

Label	Replicates Concentration		
Tl 190.794	-0.5683u	-2.8332u	-4.8042u
V 292.401	196.684	197.100	198.227
Zn 206.200	5.2971	6.1703	6.2953

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2017b	ppb	0.0629	31.2	-19.8407
Al 308.215	529.060b	ppb	0.4761	0.1	3951.81
As 188.980	12.0517b	ppb	2.1120	17.5	1.9565
B 249.678	37.0180b	ppb	0.2255	0.6	646.119
Ba 389.178	9.8928b	ppb	0.1381	1.4	184.423
Be 313.042	0.0068b	ppb	0.0044	65.0	-295.271
Ca 370.602	67806b	ppb	145.2	0.2	181668
Cd 226.502	-0.0650b	ppb	0.0728	112.1	25.8273
Co 228.615	-0.0760b	ppb	0.0621	81.7	-0.0086
Cr 267.716	0.5227b	ppb	0.0780	14.9	61.6025
Cu 324.754	4.5808b	ppb	0.0781	1.7	498.386
Fe 271.441	58.6072b	ppb	5.2222	8.9	110.171
K 766.491	1617.36b	ppb	6.3087	0.4	65243.5
Mg 279.078	2106.10b	ppb	3.2777	0.2	5741.80
Mn 257.610	0.4918b	ppb	0.0305	6.2	194.888
Mo 202.032	-0.1563b	ppb	0.6118	391.4	8.4637
Na 330.237	248150xb	ppb	588.725	0.2	10911.8
Ni 231.604	3.2549b	ppb	1.4109	43.3	4.2613
Pb 220.353	-0.0607b	ppb	0.3861	635.7	12.4767
Sb 206.834	1.5199b	ppb	1.9997	131.6	-2.9038
Se 196.026	13.7707b	ppb	3.8619	28.0	10.6010
Sn 189.925	0.9916b	ppb	2.8681	289.2	-4.5199
Sr 216.596	58.3603b	ppb	0.2021	0.3	775.513
Ti 334.941	12.9158b	ppb	0.2481	1.9	3750.68
Tl 190.794	-2.7352b	ppb	2.1196	77.5	-10.6410
V 292.401	197.337b	ppb	0.7983	0.4	5025.18
Zn 206.200	5.9209b	ppb	0.5438	9.2	7.3506

680-107113-a-2-d (Samp) **11/14/2014, 5:08:50 PM** **Rack 1, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3075	0.3189	0.4127
Al 308.215	111.160	110.647	109.917
As 188.980	1.2421	4.7765	4.1396
B 249.678	7.6066	8.1665	7.6191
Ba 389.178	2.5266	2.6563	1.6712
Be 313.042	0.0054	0.0046	0.0056
Ca 370.602	14852	14686	14607
Cd 226.502	0.0403	-0.0928u	-0.1298u
Co 228.615	0.5219	-0.5809u	-0.2294u
Cr 267.716	0.0872	0.1771	0.2179
Cu 324.754	0.8776	1.1443	1.1325
Fe 271.441	12.6169	15.3439	13.1759
K 766.491	297.487	294.492	293.984
Mg 279.078	468.483	465.946	461.347
Mn 257.610	0.1514	0.2372	0.1537
Mo 202.032	-0.4719u	-0.1921u	-0.2383u
Na 330.237	49138.5	48572.6	48412.4

Label	Replicates Concentration		
Ni 231.604	1.7504	0.7969	0.6088
Pb 220.353	1.3348	-2.3033u	1.0816
Sb 206.834	0.8194	-2.9105u	3.2909
Se 196.026	1.1020	5.9188	1.5110
Sn 189.925	-1.6404u	3.1770	1.4699
Sr 216.596	12.7264	12.4017	12.9049
Ti 334.941	2.8040	2.6065	2.5878
Tl 190.794	1.3864	-1.7466u	-0.6847u
V 292.401	43.8358	43.4427	43.0312
Zn 206.200	3.9463	1.5080	1.7535

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3464	ppb	0.0577	16.7	-6.8918
Al 308.215	110.575	ppb	0.6248	0.6	1176.92
As 188.980	3.3861	ppb	1.8839	55.6	-3.8198
B 249.678	7.7974	ppb	0.3197	4.1	169.296
Ba 389.178	2.2847	ppb	0.5352	23.4	13.5477
Be 313.042	0.0052	ppb	0.0005	10.2	-303.449
Ca 370.602	14715	ppb	125.1	0.8	39443
Cd 226.502	-0.0608	ppb	0.0894	147.2	27.1009
Co 228.615	-0.0962	ppb	0.5633	585.8	-0.4810
Cr 267.716	0.1607	ppb	0.0669	41.6	39.6930
Cu 324.754	1.0514	ppb	0.1507	14.3	262.613
Fe 271.441	13.7122	ppb	1.4404	10.5	37.0085
K 766.491	295.321	ppb	1.8929	0.6	12100.0
Mg 279.078	465.259	ppb	3.6176	0.8	1286.34
Mn 257.610	0.1808	ppb	0.0489	27.0	117.834
Mo 202.032	-0.3008	ppb	0.1500	49.9	7.6626
Na 330.237	48707.8	ppb	381.436	0.8	2165.43
Ni 231.604	1.0520	ppb	0.6121	58.2	-2.7492
Pb 220.353	0.0377	ppb	2.0313	5387.0	12.6460
Sb 206.834	0.3999	ppb	3.1219	780.6	-4.4603
Se 196.026	2.8439	ppb	2.6708	93.9	5.6803
Sn 189.925	1.0022	ppb	2.4426	243.7	-4.5750
Sr 216.596	12.6776	ppb	0.2551	2.0	172.304
Ti 334.941	2.6661	ppb	0.1198	4.5	778.311
Tl 190.794	-0.3483	ppb	1.5933	457.5	-8.3708
V 292.401	43.4366	ppb	0.4024	0.9	1090.97
Zn 206.200	2.4026	ppb	1.3425	55.9	3.2047

680-107113-a-2-d (Samp) **11/14/2014, 5:13:05 PM** **Rack 1, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	107.645	107.311	107.248
Al 308.215	1573.44	1568.53	1572.58
As 188.980	115.647	121.019	117.681
B 249.678	236.297	237.221	237.347
Ba 389.178	97.4514	96.5609	96.7048
Be 313.042	102.834	102.618	102.634
Ca 370.602	78701	78484	78233
Cd 226.502	98.3722	98.0489	98.5703
Co 228.615	99.6614	100.346	99.9037
Cr 267.716	104.002	103.604	103.556

Label	Replicates Concentration		
Cu 324.754	110.439	110.079	110.096
Fe 271.441	9973.03	9944.63	9931.55
K 766.491	14476.0	14464.8	14446.9
Mg 279.078	11882.3	11847.6	11872.5
Mn 257.610	1035.13	1032.15	1035.12
Mo 202.032	98.2258	98.3202	97.6527
Na 330.237	261970x	261624x	261900x
Ni 231.604	100.723	100.934	101.671
Pb 220.353	96.2032	101.245	95.1887
Sb 206.834	96.8993	96.8490	93.8290
Se 196.026	122.508	120.696	116.707
Sn 189.925	98.1600	93.2392	93.9753
Sr 216.596	156.595	156.364	156.825
Ti 334.941	112.589	112.598	112.547
Tl 190.794	18.9982	17.0527	19.4913
V 292.401	297.185	295.308	295.752
Zn 206.200	107.196	106.247	107.370

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	107.401b	ppb	0.2133	0.2	8597.27
Al 308.215	1571.52b	ppb	2.6239	0.2	10829.2
As 188.980	118.116b	ppb	2.7122	2.3	72.5669
B 249.678	236.955b	ppb	0.5735	0.2	3888.34
Ba 389.178	96.9057b	ppb	0.4780	0.5	2124.44
Be 313.042	102.695b	ppb	0.1203	0.1	193316
Ca 370.602	78472b	ppb	234.0	0.3	210211
Cd 226.502	98.3305b	ppb	0.2632	0.3	4478.56
Co 228.615	99.9702b	ppb	0.3469	0.3	1201.19
Cr 267.716	103.720b	ppb	0.2448	0.2	5665.29
Cu 324.754	110.204b	ppb	0.2031	0.2	7622.65
Fe 271.441	9949.74b	ppb	21.2050	0.2	16009.5
K 766.491	14462.6b	ppb	14.6944	0.1	581598
Mg 279.078	11867.5b	ppb	17.8733	0.2	32226.6
Mn 257.610	1034.14b	ppb	1.7162	0.2	216619
Mo 202.032	98.0662b	ppb	0.3613	0.4	666.885
Na 330.237	261832xb	ppb	182.903	0.1	11507.7
Ni 231.604	101.110b	ppb	0.4976	0.5	316.109
Pb 220.353	97.5457b	ppb	3.2437	3.3	173.031
Sb 206.834	95.8591b	ppb	1.7583	1.8	127.677
Se 196.026	119.971b	ppb	2.9676	2.5	58.7429
Sn 189.925	95.1249b	ppb	2.6542	2.8	66.9957
Sr 216.596	156.595b	ppb	0.2304	0.1	2040.58
Ti 334.941	112.578b	ppb	0.0269	0.0	32794.4
Tl 190.794	18.5140b	ppb	1.2894	7.0	10.7962
V 292.401	296.082b	ppb	0.9812	0.3	7524.50
Zn 206.200	106.938b	ppb	0.6041	0.6	125.853

680-107113-a-2-e ms (Samp) **11/14/2014, 5:17:21 PM** **Rack 1, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.5467	52.5685	51.9841
Al 308.215	7427.96	7451.52	7432.86
As 188.980	152.656	158.571	155.544

Label	Replicates Concentration		
B 249.678	307.520	310.175	309.138
Ba 389.178	138.651	140.235	138.737
Be 313.042	69.4761	69.6459	69.4824
Ca 370.602	74275	74504	74547
Cd 226.502	67.1683	67.1511	66.8132
Co 228.615	66.9696	67.2754	67.4448
Cr 267.716	137.565	137.947	137.530
Cu 324.754	145.378	146.343	145.352
Fe 271.441	6652.71	6681.57	6655.54
K 766.491	10404.8	10453.6	10408.2
Mg 279.078	8618.67	8638.48	8609.38
Mn 257.610	685.640	685.631	683.840
Mo 202.032	131.750	133.282	132.530
Na 330.237	255496x	256090x	255348x
Ni 231.604	133.787	135.415	134.182
Pb 220.353	649.540	660.410	655.819
Sb 206.834	67.8119	67.6883	70.8515
Se 196.026	154.671	153.169	154.086
Sn 189.925	264.437	264.127	263.814
Sr 216.596	189.086	189.389	189.733
Ti 334.941	144.584	144.276	144.028
Tl 190.794	52.2760	51.3008	50.4433
V 292.401	329.043	329.155	328.461
Zn 206.200	139.654	137.485	140.555

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.3664b	ppb	0.3313	0.6	4171.49
Al 308.215	7437.44b	ppb	12.4309	0.2	49446.9
As 188.980	155.590b	ppb	2.9576	1.9	97.5596
B 249.678	308.944b	ppb	1.3380	0.4	5070.34
Ba 389.178	139.208b	ppb	0.8907	0.6	3045.02
Be 313.042	69.5348b	ppb	0.0963	0.1	130788
Ca 370.602	74442b	ppb	146.6	0.2	199451
Cd 226.502	67.0442b	ppb	0.2003	0.3	3061.96
Co 228.615	67.2299b	ppb	0.2408	0.4	807.625
Cr 267.716	137.681b	ppb	0.2317	0.2	7503.37
Cu 324.754	145.691b	ppb	0.5649	0.4	10013.6
Fe 271.441	6663.27b	ppb	15.9086	0.2	10727.4
K 766.491	10422.2b	ppb	27.2016	0.3	419183
Mg 279.078	8622.18b	ppb	14.8617	0.2	23419.2
Mn 257.610	685.037b	ppb	1.0366	0.2	143525
Mo 202.032	132.521b	ppb	0.7660	0.6	898.162
Na 330.237	255644xb	ppb	392.487	0.2	11236.5
Ni 231.604	134.461b	ppb	0.8493	0.6	421.983
Pb 220.353	655.256b	ppb	5.4565	0.8	1085.78
Sb 206.834	68.7839b	ppb	1.7917	2.6	89.9606
Se 196.026	153.975b	ppb	0.7572	0.5	73.9474
Sn 189.925	264.126b	ppb	0.3115	0.1	195.380
Sr 216.596	189.402b	ppb	0.3237	0.2	2450.77
Ti 334.941	144.296b	ppb	0.2790	0.2	42026.8
Tl 190.794	51.3400b	ppb	0.9169	1.8	45.4583
V 292.401	328.886b	ppb	0.3728	0.1	8356.84
Zn 206.200	139.231b	ppb	1.5781	1.1	163.983

680-107113-a-2-f msd (Samp) **11/14/2014, 5:21:38 PM** **Rack 1, Tube 21**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	54.0963	54.4049	54.2845
Al 308.215	5758.94	5791.86	5774.97
As 188.980	122.030	117.101	119.134
B 249.678	246.273	247.647	247.601
Ba 389.178	109.047	110.730	109.096
Be 313.042	53.0314	53.2899	53.1681
Ca 370.602	75810	76234	76117
Cd 226.502	51.1872	51.2839	51.3782
Co 228.615	50.9867	50.9583	51.7454
Cr 267.716	105.313	106.134	105.922
Cu 324.754	111.689	112.229	112.486
Fe 271.441	5083.86	5088.98	5082.04
K 766.491	8383.25	8464.70	8425.67
Mg 279.078	7133.37	7176.40	7151.38
Mn 257.610	521.678	523.344	522.525
Mo 202.032	100.789	100.452	100.220
Na 330.237	267104x	267906x	267956x
Ni 231.604	103.174	103.425	102.739
Pb 220.353	492.647	499.716	495.539
Sb 206.834	50.9576	46.6104	49.0948
Se 196.026	118.252	122.882	115.835
Sn 189.925	197.049	203.417	202.751
Sr 216.596	160.654	161.251	160.296
Ti 334.941	112.168	112.992	112.759
Tl 190.794	38.5056	38.6775	40.2501
V 292.401	305.214	307.049	306.750
Zn 206.200	104.173	110.084	108.040

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.2619b	ppb	0.1555	0.3	4324.18
Al 308.215	5775.26b	ppb	16.4626	0.3	38501.8
As 188.980	119.422b	ppb	2.4771	2.1	73.4690
B 249.678	247.174b	ppb	0.7800	0.3	4065.44
Ba 389.178	109.624b	ppb	0.9577	0.9	2390.61
Be 313.042	53.1632b	ppb	0.1293	0.2	99922.3
Ca 370.602	76054b	ppb	219.4	0.3	203767
Cd 226.502	51.2831b	ppb	0.0955	0.2	2348.71
Co 228.615	51.2301b	ppb	0.4465	0.9	615.645
Cr 267.716	105.790b	ppb	0.4259	0.4	5773.22
Cu 324.754	112.135b	ppb	0.4065	0.4	7750.72
Fe 271.441	5084.96b	ppb	3.5996	0.1	8190.29
K 766.491	8424.54b	ppb	40.7388	0.5	338880
Mg 279.078	7153.72b	ppb	21.6119	0.3	19435.6
Mn 257.610	522.516b	ppb	0.8330	0.2	109497
Mo 202.032	100.487b	ppb	0.2862	0.3	683.340
Na 330.237	267655xb	ppb	477.913	0.2	11764.1
Ni 231.604	103.113b	ppb	0.3474	0.3	322.179
Pb 220.353	495.967b	ppb	3.5540	0.7	824.891
Sb 206.834	48.8876b	ppb	2.1810	4.5	62.4944
Se 196.026	118.990b	ppb	3.5809	3.0	58.1431
Sn 189.925	201.072b	ppb	3.5001	1.7	147.483
Sr 216.596	160.734b	ppb	0.4822	0.3	2085.54

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	112.640b	ppb	0.4246	0.4	32803.2
Tl 190.794	39.1444b	ppb	0.9614	2.5	32.8308
V 292.401	306.338b	ppb	0.9848	0.3	7787.89
Zn 206.200	107.432b	ppb	3.0019	2.8	126.619

680-107113-a-1-b (Samp) **11/14/2014, 5:25:54 PM** **Rack 1, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2630u	-0.0921u	-0.0695u
Al 308.215	52481.0	52176.7	52521.8
As 188.980	3.7945	7.3777	5.5859
B 249.678	13.2506	12.5340	12.8311
Ba 389.178	64.0441	64.4054	64.2016
Be 313.042	0.7142	0.7119	0.7014
Ca 370.602	578.6	572.6	576.0
Cd 226.502	-0.1749	-0.0287	0.0258
Co 228.615	2.7091	2.6867	2.9651
Cr 267.716	32.7527	32.7203	32.5301
Cu 324.754	10.1333	10.3247	10.5401
Fe 271.441	3366.69	3339.75	3370.52
K 766.491	259.421	258.121	259.714
Mg 279.078	531.520	530.279	531.646
Mn 257.610	6.1587	6.0800	6.1819
Mo 202.032	2.7686	2.8041	2.7337
Na 330.237	12543.7	12465.2	12584.3
Ni 231.604	7.2409	8.0171	7.3412
Pb 220.353	26.0630	24.5838	26.9609
Sb 206.834	3.8693	-0.2279	-1.3309u
Se 196.026	0.0763	6.6085	4.3247
Sn 189.925	2.9946	3.6681	4.2460
Sr 216.596	78.9434	78.2935	78.2653
Ti 334.941	382.596	379.385	381.806
Tl 190.794	-1.6574u	0.2744u	0.9188
V 292.401	93.5940	92.5916	93.3114
Zn 206.200	18.2388	18.9910	19.1231

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1415	ppb	0.1058	74.8	-48.3386
Al 308.215	52393.2	ppb	188.565	0.4	345338
As 188.980	5.5860	ppb	1.7916	32.1	-2.3762
B 249.678	12.8719	ppb	0.3600	2.8	244.536
Ba 389.178	64.2170	ppb	0.1812	0.3	1377.14
Be 313.042	0.7092	ppb	0.0068	1.0	1030.17
Ca 370.602	575.7	ppb	2.982	0.5	1691
Cd 226.502	-0.0592	ppb	0.1038	175.2	42.8341
Co 228.615	2.7869	ppb	0.1547	5.5	42.7656
Cr 267.716	32.6677	ppb	0.1203	0.4	1804.03
Cu 324.754	10.3327	ppb	0.2035	2.0	888.851
Fe 271.441	3358.98	ppb	16.7701	0.5	5410.88
K 766.491	259.085	ppb	0.8482	0.3	10643.4
Mg 279.078	531.148	ppb	0.7553	0.1	1445.50
Mn 257.610	6.1402	ppb	0.0534	0.9	1375.14
Mo 202.032	2.7688	ppb	0.0352	1.3	28.0484

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	12531.1	ppb	60.5300	0.5	577.881
Ni 231.604	7.5331	ppb	0.4222	5.6	18.1723
Pb 220.353	25.8692	ppb	1.2003	4.6	54.2449
Sb 206.834	0.7702	ppb	2.7400	355.8	-3.5294
Se 196.026	3.6698	ppb	3.3149	90.3	6.0833
Sn 189.925	3.6362	ppb	0.6263	17.2	-2.5854
Sr 216.596	78.5007	ppb	0.3837	0.5	1009.56
Ti 334.941	381.262	ppb	1.6731	0.4	111050
Tl 190.794	-0.1547	ppb	1.3407	866.3	-8.5892
V 292.401	93.1657	ppb	0.5168	0.6	2362.14
Zn 206.200	18.7843	ppb	0.4770	2.5	22.3204

680-107113-a-3-b (Samp) **11/14/2014, 5:30:11 PM** **Rack 1, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1050	-0.0207u	0.3413
Al 308.215	874.879	868.028	869.139
As 188.980	1.6458	2.0525	0.5593
B 249.678	8.7177	8.0366	8.5147
Ba 389.178	12.5045	13.3752	12.7758
Be 313.042	0.3350	0.3282	0.3255
Ca 370.602	3883	3873	3864
Cd 226.502	-0.2821u	-0.0621u	-0.2051u
Co 228.615	2.4544	2.0092	1.9231
Cr 267.716	0.4960	0.4670	0.5353
Cu 324.754	0.4554	0.3012	0.6692
Fe 271.441	156.975	152.540	159.188
K 766.491	502.306	502.171	499.733
Mg 279.078	552.833	553.637	554.338
Mn 257.610	16.0327	16.0448	16.0376
Mo 202.032	-0.1536u	-0.0116u	-0.7597u
Na 330.237	3523.74	3490.32	3614.60
Ni 231.604	3.8512	3.0591	3.6683
Pb 220.353	3.3986	2.2754	-0.1295u
Sb 206.834	-2.0560u	-0.3707u	-5.3326u
Se 196.026	6.2714	-3.5944u	1.6353
Sn 189.925	-0.1659u	0.3843	-0.6569u
Sr 216.596	9.8214	9.9950	9.9531
Ti 334.941	35.3840	35.1357	35.1049
Tl 190.794	1.3160	-1.6473u	1.3107
V 292.401	1.1993	0.7699	1.0648
Zn 206.200	25.6569	24.9872	24.4965

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1419	ppb	0.1838	129.6	-23.2594
Al 308.215	870.682	ppb	3.6770	0.4	6174.84
As 188.980	1.4192	ppb	0.7720	54.4	-5.1319
B 249.678	8.4230	ppb	0.3497	4.2	179.168
Ba 389.178	12.8852	ppb	0.4456	3.5	246.669
Be 313.042	0.3296	ppb	0.0049	1.5	307.044
Ca 370.602	3873	ppb	9.625	0.2	10411
Cd 226.502	-0.1831	ppb	0.1116	61.0	22.5565
Co 228.615	2.1289	ppb	0.2852	13.4	26.9637

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.4994	ppb	0.0343	6.9	57.8634
Cu 324.754	0.4753	ppb	0.1848	38.9	224.413
Fe 271.441	156.234	ppb	3.3854	2.2	265.908
K 766.491	501.404	ppb	1.4479	0.3	20384.1
Mg 279.078	553.603	ppb	0.7530	0.1	1525.62
Mn 257.610	16.0384	ppb	0.0061	0.0	3437.70
Mo 202.032	-0.3083	ppb	0.3973	128.9	7.6510
Na 330.237	3542.88	ppb	64.3136	1.8	184.295
Ni 231.604	3.5262	ppb	0.4147	11.8	5.1272
Pb 220.353	1.8482	ppb	1.8024	97.5	15.5951
Sb 206.834	-2.5864	ppb	2.5231	97.6	-8.5881
Se 196.026	1.4374	ppb	4.9359	343.4	5.0518
Sn 189.925	-0.1462	ppb	0.5209	356.3	-5.4617
Sr 216.596	9.9232	ppb	0.0906	0.9	133.020
Ti 334.941	35.2082	ppb	0.1530	0.4	10259.9
Tl 190.794	0.3265	ppb	1.7093	523.6	-7.7364
V 292.401	1.0113	ppb	0.2197	21.7	6.5483
Zn 206.200	25.0469	ppb	0.5825	2.3	29.8985

680-107113-a-4-b (Samp) **11/14/2014, 5:34:29 PM** **Rack 1, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-10.2010u	-10.1904u	-10.4877u
Al 308.215	109721	110061	109947
As 188.980	58.4358	60.3253	53.8645
B 249.678	-0.9904u	-0.8415u	-1.0474u
Ba 389.178	-40.0745u	-40.2583u	-40.9136u
Be 313.042	11.4281	11.4591	11.4672
Ca 370.602	176757	176451	176598
Cd 226.502	130.536	129.673	130.470
Co 228.615	1211.71	1212.63	1211.49
Cr 267.716	7.1717	7.0694	7.0424
Cu 324.754	1698.92	1704.98	1697.56
Fe 271.441	2621.70	2634.42	2640.39
K 766.491	16369.0	16503.0	16518.0
Mg 279.078	304528	304384	305469
Mn 257.610	90909.4x	91486.2x	90130.6x
Mo 202.032	-0.0963u	-0.8787u	0.3416
Na 330.237	68035.5	68027.7	68377.5
Ni 231.604	30727.2x	30863.0x	30663.1x
Pb 220.353	1.2501	4.4626	4.2180
Sb 206.834	-5.0275u	-2.1396u	0.6211
Se 196.026	14.5611	15.8060	2.5008
Sn 189.925	1.9979	-0.0948u	-0.9885u
Sr 216.596	505.147	505.537	502.995
Ti 334.941	-1.2195	-1.2213	-1.2764
Tl 190.794	37.1912	36.8113	41.0556
V 292.401	-8.8294u	-8.7153u	-8.7263u
Zn 206.200	59073.6x	58929.0x	58769.2x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-10.2930b	ppb	0.1687	1.6	-434.245
Al 308.215	109909b	ppb	173.039	0.2	723922

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	57.5419b	ppb	3.3219	5.8	32.2637
B 249.678	-0.9598b	ppb	0.1064	11.1	20.3656
Ba 389.178	-40.4154b	ppb	0.4411	1.1	-303.046
Be 313.042	11.4515b	ppb	0.0206	0.2	21309.0
Ca 370.602	176602b	ppb	153.0	0.1	475243
Cd 226.502	130.226b	ppb	0.4800	0.4	5877.43
Co 228.615	1211.95b	ppb	0.6030	0.0	14548.8
Cr 267.716	7.0945b	ppb	0.0682	1.0	859.919
Cu 324.754	1700.48b	ppb	3.9499	0.2	114789
Fe 271.441	2632.17b	ppb	9.5423	0.4	4382.40
K 766.491	16463.3b	ppb	82.0612	0.5	662025
Mg 279.078	304794b	ppb	589.460	0.2	825758
Mn 257.610	90842.1xb	ppb	680.283	0.7	19013952
Mo 202.032	-0.2111b	ppb	0.6182	292.8	8.1930
Na 330.237	68146.9b	ppb	199.745	0.3	1883.44
Ni 231.604	30751.1xb	ppb	102.056	0.3	97796.7
Pb 220.353	3.3102b	ppb	1.7883	54.0	35.5791
Sb 206.834	-2.1820b	ppb	2.8245	129.4	-7.8177
Se 196.026	10.9560b	ppb	7.3488	67.1	29.8236
Sn 189.925	0.3049b	ppb	1.5328	502.7	-5.1010
Sr 216.596	504.559b	ppb	1.3687	0.3	5612.00
Ti 334.941	-1.2391b	ppb	0.0323	2.6	181.568
Tl 190.794	38.3527b	ppb	2.3485	6.1	79.5339
V 292.401	-8.7570b	ppb	0.0629	0.7	-242.537
Zn 206.200	58923.9xb	ppb	152.240	0.3	69477.7

Cont Calib Verif (CCV) **11/14/2014, 5:38:44 PM** **Rack 1, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	496.272	497.510	497.832
Al 308.215	4860.28	4845.60	4845.28
As 188.980	464.245	464.491	456.745
B 249.678	487.437	490.491	492.761
Ba 389.178	4868.22	4840.46	4842.34
Be 313.042	496.044	495.163	494.312
Ca 370.602	4836	4782	4822
Cd 226.502	492.896	489.417	491.809
Co 228.615	498.671	496.332	497.004
Cr 267.716	5041.90	5025.11	5036.31
Cu 324.754	5084.55	5035.60	5083.03
Fe 271.441	4921.79	4913.92	4908.56
K 766.491	10258.2	10212.3	10197.1
Mg 279.078	4876.51	4858.34	4871.77
Mn 257.610	5014.50	5016.40	5002.29
Mo 202.032	487.643	484.798	484.306
Na 330.237	7606.90	7266.74	7274.60
Ni 231.604	2445.49	2431.79	2442.64
Pb 220.353	486.459	483.157	486.062
Sb 206.834	925.679	918.784	925.894
Se 196.026	4972.10	4960.97	4960.43
Sn 189.925	4866.06	4825.84	4824.42
Sr 216.596	2443.98	2442.72	2441.79
Ti 334.941	489.756	487.112	486.818

Label	Replicates Concentration		
Tl 190.794	4974.47	4933.61	4938.63
V 292.401	4894.01	4853.17	4869.88
Zn 206.200	2473.43	2476.75	2485.15

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	497.205	ppb	0.8236	0.2	39887.3	99.44093
Al 308.215	4850.39	ppb	8.5741	0.2	33012.8	97.00772
As 188.980	461.827	ppb	4.4028	1.0	301.610	92.36541
B 249.678	490.230	ppb	2.6713	0.5	8045.62	98.04594
Ba 389.178	4850.34	ppb	15.5121	0.3	106563	97.00674
Be 313.042	495.173	ppb	0.8661	0.2	933535	99.03457
Ca 370.602	4813	ppb	28.02	0.6	13229	96.26542
Cd 226.502	491.374	ppb	1.7795	0.4	22052.3	98.27477
Co 228.615	497.336	ppb	1.2044	0.2	5976.33	99.46712
Cr 267.716	5034.44	ppb	8.5528	0.2	272973	100.68880
Cu 324.754	5067.73	ppb	27.8308	0.5	341661	101.35450
Fe 271.441	4914.75	ppb	6.6559	0.1	8009.03	98.29510
K 766.491	10222.5	ppb	31.7925	0.3	411156	102.22527
Mg 279.078	4868.88	ppb	9.4299	0.2	13139.1	97.37751
Mn 257.610	5011.06	ppb	7.6568	0.2	1048853	100.22126
Mo 202.032	485.582	ppb	1.8017	0.4	3262.10	97.11647
Na 330.237	7382.75	ppb	194.164	2.6	304.679	98.43664
Ni 231.604	2439.98	ppb	7.2275	0.3	7753.55	97.59903
Pb 220.353	485.226	ppb	1.8027	0.4	811.511	97.04520
Sb 206.834	923.452	ppb	4.0444	0.4	1330.49	92.34523
Se 196.026	4964.50	ppb	6.5879	0.1	2241.07	99.28998
Sn 189.925	4838.78	ppb	23.6420	0.5	3670.57	96.77554
Sr 216.596	2442.83	ppb	1.0999	0.0	31053.2	97.71329
Ti 334.941	487.896	ppb	1.6181	0.3	142112	97.57912
Tl 190.794	4948.90	ppb	22.2807	0.5	5200.39	98.97807
V 292.401	4872.36	ppb	20.5315	0.4	124276	97.44711
Zn 206.200	2478.44	ppb	6.0391	0.2	2911.45	99.13773

Cont Calib Blank (CCB) **11/14/2014, 5:42:59 PM** **Rack 1, Tube 26**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2428	0.2092	0.4302
Al 308.215	1.6979	0.6932	0.9690
As 188.980	1.7252	-0.8692u	-0.0288u
B 249.678	8.3330	6.8874	6.4040
Ba 389.178	0.0012	0.4481	0.0427
Be 313.042	0.0227	0.0233	0.0285
Ca 370.602	1.074	-2.440u	-0.1011u
Cd 226.502	-0.0365u	-0.1096u	-0.0663u
Co 228.615	-0.1906u	-0.0698u	-0.2995u
Cr 267.716	0.2527	0.4219	0.2282
Cu 324.754	0.1183	-0.2520u	0.4489
Fe 271.441	-0.7862u	-1.3912u	1.5348
K 766.491	0.8829	0.6790	0.9053
Mg 279.078	3.1931	3.9146	2.7513
Mn 257.610	2.0186	1.9380	2.0035
Mo 202.032	-0.0561u	-0.3966u	0.1846
Na 330.237	-72.6972u	-94.2673u	108.348

Label	Replicates Concentration		
Ni 231.604	1.3967	0.6329	1.2675
Pb 220.353	0.6393	1.9805	-0.9660u
Sb 206.834	3.9168	5.4641	0.7687
Se 196.026	7.1776	1.0760	2.2608
Sn 189.925	-0.2869u	0.3447	-2.7362u
Sr 216.596	0.3175	0.0574	0.6588
Ti 334.941	0.0441	0.1295	0.0911
Tl 190.794	0.2566	1.4983	-0.2630u
V 292.401	0.7782	0.6788	0.7269
Zn 206.200	2.4800	0.1743	1.3341

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2941	ppb	0.1191	40.5	-10.7536	0.29408
Al 308.215	1.1201	ppb	0.5191	46.3	450.833	1.12005
As 188.980	0.2757	ppb	1.3238	480.1	-5.8932	0.27574
B 249.678	7.2081	ppb	1.0037	13.9	159.743	7.20814
Ba 389.178	0.1640	ppb	0.2469	150.5	-34.0871	0.16400
Be 313.042	0.0248	ppb	0.0032	12.8	-268.545	0.02484
Ca 370.602	-0.4892	ppb	1.789	365.7	21.42	-0.48918
Cd 226.502	-0.0708	ppb	0.0368	52.0	26.9152	-0.07080
Co 228.615	-0.1866	ppb	0.1149	61.6	-1.6276	-0.18662
Cr 267.716	0.3009	ppb	0.1055	35.1	46.8059	0.30093
Cu 324.754	0.1051	ppb	0.3507	333.8	199.416	0.10506
Fe 271.441	-0.2142	ppb	1.5445	721.1	14.3378	-0.21420
K 766.491	0.8224	ppb	0.1247	15.2	261.687	0.82238
Mg 279.078	3.2863	ppb	0.5872	17.9	31.8743	3.28632
Mn 257.610	1.9867	ppb	0.0428	2.2	492.390	1.98666
Mo 202.032	-0.0894	ppb	0.2921	326.8	9.1276	-0.08937
Na 330.237	-19.5389	ppb	111.277	569.5	28.5457	-19.53889
Ni 231.604	1.0990	ppb	0.4088	37.2	-2.6003	1.09905
Pb 220.353	0.5513	ppb	1.4752	267.6	13.4894	0.55129
Sb 206.834	3.3832	ppb	2.3927	70.7	-0.3302	3.38322
Se 196.026	3.5048	ppb	3.2354	92.3	5.9782	3.50480
Sn 189.925	-0.8928	ppb	1.6274	182.3	-6.0300	-0.89283
Sr 216.596	0.3446	ppb	0.3016	87.5	9.2993	0.34458
Ti 334.941	0.0882	ppb	0.0428	48.5	30.5272	0.08823
Tl 190.794	0.4973	ppb	0.9050	182.0	-7.5483	0.49729
V 292.401	0.7279	ppb	0.0497	6.8	-0.8942	0.72795
Zn 206.200	1.3295	ppb	1.1529	86.7	1.9396	1.32945

680-107113-a-5-b (Samp) **11/14/2014, 5:47:14 PM** **Rack 1, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.8366	1.1877	1.0848
Al 308.215	138.057	135.937	137.289
As 188.980	10.0984	5.4492	2.1158
B 249.678	3.1009	3.8699	2.6650
Ba 389.178	12.1657	12.4527	12.2165
Be 313.042	0.0379	0.0351	0.0349
Ca 370.602	197415	195730	194666
Cd 226.502	41.6587	41.3093	41.3496
Co 228.615	26.7114	26.9443	26.8793
Cr 267.716	-3.2451	-3.4434	-3.2222

Label	Replicates Concentration		
Cu 324.754	2.9364	2.7116	3.1835
Fe 271.441	-6.7135u	-7.1259u	-8.2917u
K 766.491	22324.6	22260.9	22721.7
Mg 279.078	317838	316287	318538
Mn 257.610	80539.5x	80249.6x	79891.9x
Mo 202.032	-0.9110u	-0.8807u	-0.8849u
Na 330.237	705029x	707099x	708187x
Ni 231.604	124.375	125.403	125.601
Pb 220.353	-1.3553	-0.7800	-5.6539
Sb 206.834	5.1849	2.5321	-3.9513u
Se 196.026	15.9786	4.0846	13.2089
Sn 189.925	-3.5101u	2.0117	-1.1557u
Sr 216.596	573.644	569.830	571.127
Ti 334.941	-1.6523	-1.6365	-1.6722
Tl 190.794	28.3925	29.6351	19.8156
V 292.401	-6.3853u	-6.5144u	-6.2868u
Zn 206.200	373.983	373.285	370.301

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0364b	ppb	0.1805	17.4	415.872
Al 308.215	137.095b	ppb	1.0732	0.8	1345.18
As 188.980	5.8878b	ppb	4.0093	68.1	-2.1518
B 249.678	3.2120b	ppb	0.6101	19.0	94.5945
Ba 389.178	12.2783b	ppb	0.1531	1.2	879.253
Be 313.042	0.0360b	ppb	0.0017	4.7	-292.696
Ca 370.602	195937b	ppb	1386	0.7	526799
Cd 226.502	41.4392b	ppb	0.1912	0.5	1885.47
Co 228.615	26.8450b	ppb	0.1202	0.4	322.894
Cr 267.716	-3.3035b	ppb	0.1216	3.7	254.162
Cu 324.754	2.9438b	ppb	0.2360	8.0	390.741
Fe 271.441	-7.3770b	ppb	0.8185	11.1	5.9286
K 766.491	22435.7b	ppb	249.705	1.1	902105
Mg 279.078	317554b	ppb	1152.28	0.4	860680
Mn 257.610	80227.0xb	ppb	324.364	0.4	16792486
Mo 202.032	-0.8922b	ppb	0.0164	1.8	3.7462
Na 330.237	706772xb	ppb	1604.47	0.2	31017.3
Ni 231.604	125.126b	ppb	0.6583	0.5	391.806
Pb 220.353	-2.5964b	ppb	2.6634	102.6	25.3095
Sb 206.834	1.2552b	ppb	4.7000	374.4	-3.2427
Se 196.026	11.0907b	ppb	6.2235	56.1	27.3580
Sn 189.925	-0.8847b	ppb	2.7709	313.2	-5.8002
Sr 216.596	571.534b	ppb	1.9391	0.3	7359.92
Ti 334.941	-1.6537b	ppb	0.0179	1.1	26.8291
Tl 190.794	25.9477b	ppb	5.3468	20.6	58.3226
V 292.401	-6.3955b	ppb	0.1141	1.8	-184.486
Zn 206.200	372.523b	ppb	1.9553	0.5	439.612

680-107113-a-6-b (Samp) **11/14/2014, 5:51:29 PM** **Rack 1, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-9.2909u	-9.3719u	-9.4089u
Al 308.215	103204	102963	102814
As 188.980	51.2228	51.0992	57.6194

Label	Replicates Concentration		
B 249.678	1.1652	1.0084	0.3988
Ba 389.178	-22.4675	-23.3219	-22.4716
Be 313.042	11.0717	11.0350	11.0419
Ca 370.602	161942	161119	161817
Cd 226.502	119.784	120.031	120.324
Co 228.615	1124.05	1120.12	1120.79
Cr 267.716	7.9148	7.5345	7.7142
Cu 324.754	1557.21	1569.44	1575.16
Fe 271.441	1495.22	1501.69	1493.00
K 766.491	14783.4	14723.5	14718.2
Mg 279.078	279911	280279	280620
Mn 257.610	87497.9x	86801.5x	87158.2x
Mo 202.032	-0.4682u	-0.7130u	-0.3658u
Na 330.237	64105.4	65270.9	63933.1
Ni 231.604	28422.9x	28375.9x	28451.1x
Pb 220.353	2.4871	4.4461	4.0177
Sb 206.834	-0.9263u	-6.2158u	-7.8955u
Se 196.026	11.6989	11.0083	-3.1306
Sn 189.925	-0.2643u	3.0087	0.0967
Sr 216.596	473.293	475.866	474.311
Ti 334.941	6.1505	5.9433	5.7520
Tl 190.794	37.1849	35.8446	36.9390
V 292.401	-2.0989u	-1.5630u	-1.5526u
Zn 206.200	54950.0x	54907.9x	55011.1x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-9.3572b	ppb	0.0604	0.6	-378.724
Al 308.215	102994b	ppb	197.201	0.2	678401
As 188.980	53.3138b	ppb	3.7293	7.0	29.4527
B 249.678	0.8575b	ppb	0.4049	47.2	52.5856
Ba 389.178	-22.7537b	ppb	0.4921	2.2	34.7438
Be 313.042	11.0495b	ppb	0.0195	0.2	20548.8
Ca 370.602	161626b	ppb	443.8	0.3	435039
Cd 226.502	120.046b	ppb	0.2705	0.2	5415.84
Co 228.615	1121.65b	ppb	2.1045	0.2	13465.0
Cr 267.716	7.7212b	ppb	0.1902	2.5	872.512
Cu 324.754	1567.27b	ppb	9.1696	0.6	105811
Fe 271.441	1496.64b	ppb	4.5136	0.3	2548.23
K 766.491	14741.7b	ppb	36.2097	0.2	592819
Mg 279.078	280270b	ppb	354.986	0.1	759256
Mn 257.610	87152.5xb	ppb	348.191	0.4	18241620
Mo 202.032	-0.5157b	ppb	0.1784	34.6	6.1952
Na 330.237	64436.5b	ppb	727.758	1.1	1795.66
Ni 231.604	28416.7xb	ppb	38.0098	0.1	90371.9
Pb 220.353	3.6503b	ppb	1.0299	28.2	35.2726
Sb 206.834	-5.0126b	ppb	3.6371	72.6	-11.7512
Se 196.026	6.5256b	ppb	8.3696	128.3	26.8584
Sn 189.925	0.9470b	ppb	1.7945	189.5	-4.6144
Sr 216.596	474.490b	ppb	1.2960	0.3	5289.18
Ti 334.941	5.9486b	ppb	0.1993	3.4	2232.08
Tl 190.794	36.6562b	ppb	0.7135	1.9	75.6073
V 292.401	-1.7381b	ppb	0.3125	18.0	-62.7848
Zn 206.200	54956.4xb	ppb	51.8976	0.1	64799.5

680-107113-a-7-b (Samp) **11/14/2014, 5:55:44 PM** **Rack 1, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.7727	0.6579	0.7171
Al 308.215	473.840	465.802	465.548
As 188.980	9.9170	11.6012	5.0816
B 249.678	4.0006	4.0558	4.1491
Ba 389.178	28.8802	28.9720	28.5284
Be 313.042	0.0157u	0.0355	0.0344
Ca 370.602	193648	190426	190767
Cd 226.502	24.1908	23.7558	24.0655
Co 228.615	9.6420	9.4727	9.5567
Cr 267.716	-2.4924	-2.8137	-2.7626
Cu 324.754	3.1068	2.8550	2.9381
Fe 271.441	3.3001	3.4680	4.4192
K 766.491	23189.5	22925.2	22810.5
Mg 279.078	287104	282966	284318
Mn 257.610	64562.9x	63724.5x	63993.1x
Mo 202.032	2.5692	2.1085	1.7186
Na 330.237	803962x	799626x	798245x
Ni 231.604	82.7183	82.7897	81.5341
Pb 220.353	0.5415	-3.3411	0.2544
Sb 206.834	0.6474	-1.0686u	-4.4709u
Se 196.026	9.1225	13.1818	7.6100
Sn 189.925	-1.3698u	-4.6658u	-2.6598u
Sr 216.596	572.813	563.222	566.494
Ti 334.941	10.8406	11.0895	11.3526
Tl 190.794	16.6077	15.4595	15.8991
V 292.401	-3.9824u	-3.4522u	-3.3243u
Zn 206.200	166.785	164.184	163.739

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7159b	ppb	0.0574	8.0	311.772
Al 308.215	468.397b	ppb	4.7160	1.0	3526.48
As 188.980	8.8666b	ppb	3.3843	38.2	-0.1671
B 249.678	4.0685b	ppb	0.0751	1.8	108.511
Ba 389.178	28.7935b	ppb	0.2341	0.8	1175.74
Be 313.042	0.0286b	ppb	0.0111	39.0	-313.073
Ca 370.602	191614b	ppb	1770	0.9	514838
Cd 226.502	24.0040b	ppb	0.2239	0.9	1103.83
Co 228.615	9.5572b	ppb	0.0846	0.9	115.568
Cr 267.716	-2.6896b	ppb	0.1727	6.4	210.875
Cu 324.754	2.9667b	ppb	0.1283	4.3	392.369
Fe 271.441	3.7291b	ppb	0.6035	16.2	21.7687
K 766.491	22975.1b	ppb	194.378	0.8	923785
Mg 279.078	284796b	ppb	2109.92	0.7	772058
Mn 257.610	64093.5xb	ppb	428.121	0.7	13415808
Mo 202.032	2.1321b	ppb	0.4258	20.0	24.0335
Na 330.237	800611xb	ppb	2983.01	0.4	35136.6
Ni 231.604	82.3474b	ppb	0.7052	0.9	255.790
Pb 220.353	-0.8484b	ppb	2.1635	255.0	24.7341
Sb 206.834	-1.6307b	ppb	2.6051	159.8	-7.2960
Se 196.026	9.9714b	ppb	2.8813	28.9	23.2284
Sn 189.925	-2.8985b	ppb	1.6609	57.3	-7.3009
Sr 216.596	567.510b	ppb	4.8756	0.9	7308.33

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	11.0942b	ppb	0.2560	2.3	3674.97
Tl 190.794	15.9887b	ppb	0.5793	3.6	39.9205
V 292.401	-3.5863b	ppb	0.3490	9.7	-114.166
Zn 206.200	164.903b	ppb	1.6457	1.0	194.806

mb 680-358466/1-a (Samp) **11/14/2014, 6:00:00 PM** **Rack 1, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3651	0.0523	0.3289
Al 308.215	5.9274	5.2101	5.9061
As 188.980	-0.2559u	-0.7239u	-3.9500u
B 249.678	1.0608	0.9260	1.0204
Ba 389.178	0.3872	0.1833	-0.3549u
Be 313.042	0.0078	0.0083	0.0076
Ca 370.602	26.80	28.53	29.44
Cd 226.502	-0.0302u	-0.0477u	-0.1006u
Co 228.615	-0.2933u	-0.5204u	0.1719
Cr 267.716	0.4571	0.3889	0.5588
Cu 324.754	0.2888	-0.0928u	0.2744
Fe 271.441	6.2852	7.8317	12.9528
K 766.491	10.5724	11.5500	11.1366
Mg 279.078	21.6107	17.6563	16.9388
Mn 257.610	6.1168	5.3651	4.7083
Mo 202.032	-0.3266u	-0.4855u	-0.7705u
Na 330.237	38.2759	247.340	92.0896
Ni 231.604	1.9476	1.2958	1.4144
Pb 220.353	2.2728	-0.6829u	-0.7117u
Sb 206.834	0.8455	1.5298	-2.1008u
Se 196.026	3.8956	4.7621	3.4864
Sn 189.925	6.2967	7.0184	6.1102
Sr 216.596	0.1078	-0.2785u	0.1426
Ti 334.941	0.0482	0.0195	-0.0152u
Tl 190.794	0.0106	2.4276	-1.2133u
V 292.401	0.3058	0.5825	0.3248
Zn 206.200	3.6987	4.1603	2.9083

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2488	ppb	0.1711	68.8	-14.3631
Al 308.215	5.6812	ppb	0.4081	7.2	480.825
As 188.980	-1.6432	ppb	2.0114	122.4	-7.1723
B 249.678	1.0024	ppb	0.0692	6.9	58.3801
Ba 389.178	0.0719	ppb	0.3834	533.5	-36.0769
Be 313.042	0.0079	ppb	0.0004	5.0	-300.479
Ca 370.602	28.26	ppb	1.341	4.7	98.39
Cd 226.502	-0.0595	ppb	0.0367	61.7	27.4635
Co 228.615	-0.2139	ppb	0.3529	165.0	-1.9519
Cr 267.716	0.4683	ppb	0.0855	18.3	55.9023
Cu 324.754	0.1568	ppb	0.2162	137.9	202.897
Fe 271.441	9.0232	ppb	3.4899	38.7	29.1662
K 766.491	11.0863	ppb	0.4907	4.4	674.280
Mg 279.078	18.7353	ppb	2.5159	13.4	73.7541
Mn 257.610	5.3968	ppb	0.7048	13.1	1206.20
Mo 202.032	-0.5276	ppb	0.2249	42.6	6.1875

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	125.902	ppb	108.556	86.2	34.8837
Ni 231.604	1.5526	ppb	0.3472	22.4	-1.1568
Pb 220.353	0.2928	ppb	1.7148	585.7	13.0681
Sb 206.834	0.0915	ppb	1.9292	2108.0	-4.8785
Se 196.026	4.0480	ppb	0.6514	16.1	6.2237
Sn 189.925	6.4751	ppb	0.4797	7.4	-0.4327
Sr 216.596	-0.0094	ppb	0.2337	2495.1	4.8169
Ti 334.941	0.0175	ppb	0.0317	181.1	9.9545
Tl 190.794	0.4083	ppb	1.8528	453.8	-7.6408
V 292.401	0.4044	ppb	0.1545	38.2	-9.1200
Zn 206.200	3.5891	ppb	0.6331	17.6	4.6032

lcs 680-358466/2-a (Samp) **11/14/2014, 6:04:16 PM** **Rack 1, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.0319	50.9940	51.5084
Al 308.215	4834.31	4831.63	4800.14
As 188.980	96.6484	95.5146	97.7637
B 249.678	186.606	187.777	188.235
Ba 389.178	95.2501	94.5549	94.4810
Be 313.042	49.9598	49.9772	49.6807
Ca 370.602	4730	4738	4711
Cd 226.502	49.2286	49.1389	48.9127
Co 228.615	49.7562	49.0708	48.9261
Cr 267.716	102.199	102.448	101.743
Cu 324.754	99.8878	98.8915	100.447
Fe 271.441	4866.17	4867.85	4831.24
K 766.491	4885.81	4884.20	4851.28
Mg 279.078	4759.85	4769.90	4741.89
Mn 257.610	508.434	508.478	505.305
Mo 202.032	95.8345	97.0058	96.2390
Na 330.237	5070.09	4690.20	4982.51
Ni 231.604	97.4847	97.5210	97.9392
Pb 220.353	481.561	485.550	475.606
Sb 206.834	45.5001	45.7100	48.9671
Se 196.026	92.3342	97.3121	100.121
Sn 189.925	194.338	197.390	201.133
Sr 216.596	96.3909	96.4982	96.1880
Ti 334.941	98.2196	98.0780	97.4913
Tl 190.794	40.6181	35.9345	38.5685
V 292.401	98.0807	98.2053	97.6812
Zn 206.200	103.738	103.373	100.878

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.1781	ppb	0.2867	0.6	4078.09
Al 308.215	4822.03	ppb	19.0025	0.4	32199.9
As 188.980	96.6422	ppb	1.1246	1.2	58.2863
B 249.678	187.539	ppb	0.8399	0.4	3092.60
Ba 389.178	94.7620	ppb	0.4243	0.4	2058.54
Be 313.042	49.8726	ppb	0.1663	0.3	93711.2
Ca 370.602	4726	ppb	13.73	0.3	12689
Cd 226.502	49.0934	ppb	0.1628	0.3	2251.28
Co 228.615	49.2511	ppb	0.4434	0.9	591.654

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	102.130	ppb	0.3577	0.4	5571.67
Cu 324.754	99.7422	ppb	0.7880	0.8	6918.17
Fe 271.441	4855.08	ppb	20.6701	0.4	7819.44
K 766.491	4873.76	ppb	19.4847	0.4	196145
Mg 279.078	4757.21	ppb	14.1893	0.3	12928.7
Mn 257.610	507.406	ppb	1.8198	0.4	106317
Mo 202.032	96.3598	ppb	0.5949	0.6	655.884
Na 330.237	4914.27	ppb	198.926	4.0	241.925
Ni 231.604	97.6483	ppb	0.2526	0.3	304.783
Pb 220.353	480.906	ppb	5.0039	1.0	800.236
Sb 206.834	46.7257	ppb	1.9439	4.2	59.5146
Se 196.026	96.5890	ppb	3.9433	4.1	48.0503
Sn 189.925	197.620	ppb	3.4033	1.7	144.778
Sr 216.596	96.3590	ppb	0.1575	0.2	1236.93
Ti 334.941	97.9296	ppb	0.3862	0.4	28535.5
Tl 190.794	38.3737	ppb	2.3479	6.1	31.7284
V 292.401	97.9891	ppb	0.2738	0.3	2462.65
Zn 206.200	102.663	ppb	1.5568	1.5	121.012

680-107159-a-12-a (Samp) **11/14/2014, 6:08:32 PM** **Rack 1, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.8372	2.5845	1.7510
Al 308.215	47798.2	47595.5	47682.9
As 188.980	104.332	104.407	106.181
B 249.678	25.2010u	24.7048u	23.9221u
Ba 389.178	697.823	695.145	696.034
Be 313.042	2.4159	2.4157	2.4178
Ca 370.602	18613	18580	18578
Cd 226.502	5.2382	5.1923	5.3282
Co 228.615	35.0550	35.4472	35.0097
Cr 267.716	258.285	257.970	257.689
Cu 324.754	598.874	594.995	595.627
Fe 271.441	190804	190242	190340
K 766.491	4255.02	4237.08	4242.59
Mg 279.078	6944.59	6909.43	6938.92
Mn 257.610	2805.08	2792.42	2809.12
Mo 202.032	11.8594	11.1590	12.3500
Na 330.237	961.164u	909.858u	906.887u
Ni 231.604	99.4740	98.5828	99.1845
Pb 220.353	976.129	975.817	977.913
Sb 206.834	13.9635	10.4419	10.1760
Se 196.026	-0.2445	-1.8511	4.3398
Sn 189.925	181.306	180.377	177.206
Sr 216.596	111.629	110.798	111.047
Ti 334.941	950.903	948.023	950.422
Tl 190.794	4.7046u	7.6265u	4.6763u
V 292.401	163.387	163.004	163.307
Zn 206.200	2413.48	2379.97	2393.79

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.0576	ppb	0.4584	22.3	110.392
Al 308.215	47692.2	ppb	101.653	0.2	314422

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	104.973	ppb	1.0465	1.0	62.6459
B 249.678	24.6093	ppb	0.6448	2.6	12.2687
Ba 389.178	696.334	ppb	1.3638	0.2	15421.4
Be 313.042	2.4165	ppb	0.0011	0.0	4252.59
Ca 370.602	18590	ppb	19.25	0.1	48430
Cd 226.502	5.2529	ppb	0.0691	1.3	1179.16
Co 228.615	35.1707	ppb	0.2406	0.7	457.577
Cr 267.716	257.981	ppb	0.2985	0.1	14124.2
Cu 324.754	596.499	ppb	2.0810	0.3	40464.4
Fe 271.441	190462	ppb	300.666	0.2	305934
K 766.491	4244.90	ppb	9.1914	0.2	170866
Mg 279.078	6930.98	ppb	18.8784	0.3	18768.1
Mn 257.610	2802.20	ppb	8.7120	0.3	587129
Mo 202.032	11.7895	ppb	0.5986	5.1	79.8365
Na 330.237	925.970	ppb	30.5155	3.3	-17.3320
Ni 231.604	99.0804	ppb	0.4546	0.5	325.668
Pb 220.353	976.620	ppb	1.1306	0.1	1624.46
Sb 206.834	11.5272	ppb	2.1141	18.3	17.4428
Se 196.026	0.7481	ppb	3.2126	429.4	7.0558
Sn 189.925	179.630	ppb	2.1497	1.2	131.109
Sr 216.596	111.158	ppb	0.4264	0.4	1689.31
Ti 334.941	949.783	ppb	1.5426	0.2	276664
Tl 190.794	5.6691	ppb	1.6952	29.9	-28.9976
V 292.401	163.233	ppb	0.2019	0.1	4081.09
Zn 206.200	2395.75	ppb	16.8386	0.7	2817.33

680-107159-a-12-aSD (Samp) **11/14/2014, 6:12:48 PM** **Rack 1, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4614	0.5062	0.7997
Al 308.215	10376.7	10389.0	10369.0
As 188.980	29.8304	25.4379	21.4478
B 249.678	6.4576	6.2236	6.1585
Ba 389.178	153.792	153.340	152.616
Be 313.042	0.5212	0.5187	0.5161
Ca 370.602	4065	4081	4050
Cd 226.502	1.0915	1.1998	1.1359
Co 228.615	7.6406	7.4639	8.2623
Cr 267.716	57.0930	57.2441	57.0524
Cu 324.754	128.978	130.216	128.628
Fe 271.441	42226.2	42346.3	42241.1
K 766.491	901.710	903.042	901.779
Mg 279.078	1554.99	1558.60	1561.95
Mn 257.610	629.784	632.476	632.963
Mo 202.032	2.5885	2.1087	2.2919
Na 330.237	242.530u	73.5304u	220.348u
Ni 231.604	22.8827	21.9969	22.4275
Pb 220.353	215.931	215.387	220.098
Sb 206.834	2.5614	0.7793	3.2518
Se 196.026	2.2571	-4.9933u	1.2134
Sn 189.925	43.5581	40.6763	36.5819
Sr 216.596	24.6585	24.6887	25.0595
Ti 334.941	210.478	211.110	210.347

Label	Replicates Concentration		
Tl 190.794	-0.3521u	1.4029u	0.3569u
V 292.401	35.9911	36.4818	36.2758
Zn 206.200	533.921	529.717	530.528

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5891	ppb	0.1838	31.2	8.4329
Al 308.215	10378.2	ppb	10.1006	0.1	68768.3
As 188.980	25.5721	ppb	4.1929	16.4	10.6914
B 249.678	6.2799	ppb	0.1573	2.5	48.7646
Ba 389.178	153.249	ppb	0.5931	0.4	3364.88
Be 313.042	0.5186	ppb	0.0026	0.5	665.178
Ca 370.602	4065	ppb	15.49	0.4	10604
Cd 226.502	1.1424	ppb	0.0545	4.8	284.106
Co 228.615	7.7889	ppb	0.4194	5.4	101.838
Cr 267.716	57.1299	ppb	0.1010	0.2	3151.62
Cu 324.754	129.274	ppb	0.8343	0.6	8920.53
Fe 271.441	42271.2	ppb	65.4503	0.2	67910.6
K 766.491	902.177	ppb	0.7498	0.1	36494.5
Mg 279.078	1558.52	ppb	3.4806	0.2	4238.17
Mn 257.610	631.741	ppb	1.7123	0.3	132422
Mo 202.032	2.3297	ppb	0.2421	10.4	23.3627
Na 330.237	178.803	ppb	91.8407	51.4	17.8856
Ni 231.604	22.4357	ppb	0.4430	2.0	68.9537
Pb 220.353	217.139	ppb	2.5772	1.2	370.964
Sb 206.834	2.1975	ppb	1.2758	58.1	-0.5308
Se 196.026	-0.5076	ppb	3.9196	772.2	4.6879
Sn 189.925	40.2721	ppb	3.5056	8.7	25.2420
Sr 216.596	24.8022	ppb	0.2233	0.9	380.492
Ti 334.941	210.645	ppb	0.4079	0.2	61363.0
Tl 190.794	0.4692	ppb	0.8829	188.2	-13.5407
V 292.401	36.2496	ppb	0.2464	0.7	891.188
Zn 206.200	531.389	ppb	2.2301	0.4	625.188

680-107159-a-12-aPDS (Samp) **11/14/2014, 6:17:05 PM** **Rack 1, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	102.977	103.153	103.615
Al 308.215	48426.5	48442.9	48393.1
As 188.980	209.128	210.576	203.205
B 249.678	212.682	213.544	213.513
Ba 389.178	772.150	771.026	771.286
Be 313.042	100.566	100.736	100.639
Ca 370.602	27594	27697	27756
Cd 226.502	101.028	100.649	100.630
Co 228.615	132.551	133.320	132.594
Cr 267.716	354.839	354.987	355.637
Cu 324.754	691.379	695.346	687.096
Fe 271.441	197242	197324	197353
K 766.491	14314.6	14254.7	14376.6
Mg 279.078	16285.8	16320.9	16332.2
Mn 257.610	3757.02	3734.86	3735.14
Mo 202.032	108.174	105.697	107.893
Na 330.237	9776.07	9358.67	9466.32

Label	Replicates Concentration		
Ni 231.604	193.690	192.196	190.685
Pb 220.353	1055.08	1062.47	1065.93
Sb 206.834	98.8730	101.150	102.684
Se 196.026	99.7688	103.693	106.743
Sn 189.925	267.816	265.421	282.348
Sr 216.596	205.749	203.674	203.956
Ti 334.941	1031.97	1032.99	1033.13
Tl 190.794	23.4619u	18.2026u	21.2582u
V 292.401	254.559	255.261	256.472
Zn 206.200	2467.30	2469.06	2470.96

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	103.249	ppb	0.3291	0.3	8244.72
Al 308.215	48420.8	ppb	25.3388	0.1	319233
As 188.980	207.636	ppb	3.9056	1.9	131.010
B 249.678	213.246	ppb	0.4889	0.2	3076.83
Ba 389.178	771.487	ppb	0.5883	0.1	17097.7
Be 313.042	100.647	ppb	0.0850	0.1	189459
Ca 370.602	27682	ppb	81.78	0.3	72776
Cd 226.502	100.769	ppb	0.2247	0.2	5488.48
Co 228.615	132.822	ppb	0.4319	0.3	1629.53
Cr 267.716	355.154	ppb	0.4246	0.1	19399.2
Cu 324.754	691.273	ppb	4.1259	0.6	46856.3
Fe 271.441	197307	ppb	57.4555	0.0	316940
K 766.491	14315.3	ppb	60.9525	0.4	575677
Mg 279.078	16313.0	ppb	24.2082	0.1	44224.7
Mn 257.610	3742.34	ppb	12.7131	0.3	783972
Mo 202.032	107.255	ppb	1.3563	1.3	719.904
Na 330.237	9533.69	ppb	216.697	2.3	357.242
Ni 231.604	192.190	ppb	1.5025	0.8	622.164
Pb 220.353	1061.16	ppb	5.5417	0.5	1763.40
Sb 206.834	100.903	ppb	1.9177	1.9	141.064
Se 196.026	103.401	ppb	3.4961	3.4	53.5533
Sn 189.925	271.862	ppb	9.1600	3.4	201.179
Sr 216.596	204.460	ppb	1.1253	0.6	2887.08
Ti 334.941	1032.70	ppb	0.6336	0.1	300830
Tl 190.794	20.9742	ppb	2.6412	12.6	-13.3997
V 292.401	255.431	ppb	0.9679	0.4	6414.80
Zn 206.200	2469.11	ppb	1.8313	0.1	2903.36

680-107159-a-12-b ms (Samp) **11/14/2014, 6:21:22 PM** **Rack 1, Tube 35**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.5248	53.4362	53.4691
Al 308.215	59434.3	59432.0	59483.5
As 188.980	185.966	194.852	193.528
B 249.678	190.338	190.539	190.930
Ba 389.178	833.916	835.027	837.044
Be 313.042	52.8775	52.8325	52.9113
Ca 370.602	25636	25577	25581
Cd 226.502	53.1325	53.0397	53.2905
Co 228.615	84.1357	83.3622	84.0494
Cr 267.716	281.898	281.734	281.721

Label	Replicates Concentration		
Cu 324.754	647.865	643.427	645.901
Fe 271.441	179789	179649	179795
K 766.491	9960.98	9977.42	9983.84
Mg 279.078	13303.4	13289.4	13277.0
Mn 257.610	3144.67	3149.82	3152.08
Mo 202.032	102.313	101.570	101.617
Na 330.237	5766.63	5646.59	5420.45
Ni 231.604	177.338	177.275	175.493
Pb 220.353	1438.33	1444.66	1445.80
Sb 206.834	51.6930	40.7785	40.8753
Se 196.026	97.0425	93.0701	86.5846
Sn 189.925	369.527	364.482	371.908
Sr 216.596	212.764	212.763	212.278
Ti 334.941	968.485	968.942	969.570
Tl 190.794	42.7702	42.9530	40.2900
V 292.401	260.214	259.209	259.483
Zn 206.200	2463.99	2441.65	2451.66

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.4767	ppb	0.0448	0.1	4243.82
Al 308.215	59449.9	ppb	29.0890	0.0	391832
As 188.980	191.449	ppb	4.7942	2.5	120.336
B 249.678	190.602	ppb	0.3015	0.2	2746.16
Ba 389.178	835.329	ppb	1.5856	0.2	18481.0
Be 313.042	52.8738	ppb	0.0395	0.1	99384.5
Ca 370.602	25598	ppb	32.90	0.1	67323
Cd 226.502	53.1543	ppb	0.1268	0.2	3272.47
Co 228.615	83.8491	ppb	0.4239	0.5	1038.92
Cr 267.716	281.785	ppb	0.0984	0.0	15410.1
Cu 324.754	645.731	ppb	2.2241	0.3	43779.9
Fe 271.441	179744	ppb	82.7410	0.0	288726
K 766.491	9974.08	ppb	11.7909	0.1	401168
Mg 279.078	13289.9	ppb	13.1954	0.1	36024.0
Mn 257.610	3148.85	ppb	3.7998	0.1	659693
Mo 202.032	101.834	ppb	0.4156	0.4	684.342
Na 330.237	5611.23	ppb	175.777	3.1	189.346
Ni 231.604	176.702	ppb	1.0475	0.6	571.494
Pb 220.353	1442.93	ppb	4.0236	0.3	2386.97
Sb 206.834	44.4489	ppb	6.2737	14.1	61.7111
Se 196.026	92.2324	ppb	5.2790	5.7	48.2338
Sn 189.925	368.639	ppb	3.7918	1.0	274.697
Sr 216.596	212.602	ppb	0.2804	0.1	2966.15
Ti 334.941	968.999	ppb	0.5446	0.1	282271
Tl 190.794	42.0044	ppb	1.4875	3.5	10.9288
V 292.401	259.635	ppb	0.5193	0.2	6532.09
Zn 206.200	2452.43	ppb	11.1897	0.5	2884.53

680-107159-a-12-c ms (Samp) **11/14/2014, 6:25:39 PM** **Rack 1, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.6452	52.6524	54.0969
Al 308.215	59194.7	59305.5	59449.0
As 188.980	259.773	259.147	260.720

Label	Replicates Concentration		
B 249.678	198.319	197.699	199.094
Ba 389.178	808.416	810.305	810.126
Be 313.042	53.0794	53.1110	53.1545
Ca 370.602	27650	27624	27695
Cd 226.502	52.0357	52.5363	52.8276
Co 228.615	87.6981	88.0965	87.1931
Cr 267.716	325.905	326.605	326.362
Cu 324.754	659.941	665.399	673.516
Fe 271.441	257362	257617	257811
K 766.491	10152.0	10132.9	10120.5
Mg 279.078	13441.2	13468.5	13533.5
Mn 257.610	3412.97	3433.18	3428.74
Mo 202.032	108.199	107.600	107.235
Na 330.237	5873.06	5890.20	5989.00
Ni 231.604	176.482	178.850	176.470
Pb 220.353	1483.52	1477.27	1485.11
Sb 206.834	37.9940	36.5885	37.1523
Se 196.026	100.224	100.297	96.8675
Sn 189.925	367.689	370.341	366.428
Sr 216.596	225.831	227.985	228.642
Ti 334.941	1089.74	1092.19	1091.74
Tl 190.794	46.5478	44.4385	42.6224
V 292.401	291.526	291.168	291.292
Zn 206.200	2330.19	2351.38	2350.79

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.4648	ppb	0.7389	1.4	4230.92
Al 308.215	59316.4	ppb	127.460	0.2	390966
As 188.980	259.880	ppb	0.7916	0.3	165.438
B 249.678	198.371	ppb	0.6991	0.4	2695.57
Ba 389.178	809.616	ppb	1.0428	0.1	17975.8
Be 313.042	53.1150	ppb	0.0377	0.1	99838.8
Ca 370.602	27656	ppb	36.35	0.1	72134
Cd 226.502	52.4665	ppb	0.4005	0.8	3617.46
Co 228.615	87.6626	ppb	0.4527	0.5	1092.97
Cr 267.716	326.291	ppb	0.3555	0.1	17862.0
Cu 324.754	666.285	ppb	6.8308	1.0	45196.0
Fe 271.441	257596	ppb	225.160	0.1	413771
K 766.491	10135.1	ppb	15.8699	0.2	407643
Mg 279.078	13481.1	ppb	47.4473	0.4	36537.4
Mn 257.610	3424.96	ppb	10.6196	0.3	717705
Mo 202.032	107.678	ppb	0.4865	0.5	719.896
Na 330.237	5917.42	ppb	62.5774	1.1	187.895
Ni 231.604	177.267	ppb	1.3704	0.8	580.140
Pb 220.353	1481.96	ppb	4.1436	0.3	2456.34
Sb 206.834	37.2449	ppb	0.7073	1.9	53.6027
Se 196.026	99.1295	ppb	1.9593	2.0	52.0943
Sn 189.925	368.153	ppb	1.9973	0.5	274.327
Sr 216.596	227.486	ppb	1.4702	0.6	3265.02
Ti 334.941	1091.22	ppb	1.3054	0.1	317878
Tl 190.794	44.5362	ppb	1.9645	4.4	2.0315
V 292.401	291.328	ppb	0.1816	0.1	7312.84
Zn 206.200	2344.12	ppb	12.0675	0.5	2753.72

Cont Calib Verif (CCV) **11/14/2014, 6:29:55 PM** **Rack 1, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	485.037	490.288	487.388
Al 308.215	4807.25	4795.02	4791.82
As 188.980	461.257	461.321	458.719
B 249.678	489.977	492.762	492.942
Ba 389.178	4787.49	4765.39	4768.81
Be 313.042	495.960	493.181	492.580
Ca 370.602	4760	4737	4730
Cd 226.502	489.424	487.733	488.301
Co 228.615	494.873	494.004	494.422
Cr 267.716	5021.36	5000.88	5007.00
Cu 324.754	4971.03	4889.13	4976.02
Fe 271.441	4911.68	4878.68	4900.21
K 766.491	10045.9	9987.42	10007.1
Mg 279.078	4855.17	4832.67	4841.61
Mn 257.610	4977.82	4976.64	4982.10
Mo 202.032	481.335	481.445	478.891
Na 330.237	7478.84	7268.84	7356.30
Ni 231.604	2434.82	2419.56	2422.18
Pb 220.353	485.327	484.082	478.991
Sb 206.834	910.202	906.760	910.132
Se 196.026	4927.97	4908.92	4890.69
Sn 189.925	4818.55	4825.46	4804.54
Sr 216.596	2436.43	2428.11	2429.28
Ti 334.941	482.387	480.814	480.610
Tl 190.794	4922.60	4890.05	4894.44
V 292.401	4837.37	4826.59	4818.50
Zn 206.200	2490.90	2482.22	2482.82

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	487.571	ppb	2.6304	0.5	39113.0	97.51418
Al 308.215	4798.03	ppb	8.1424	0.2	32660.3	95.96063
As 188.980	460.432	ppb	1.4846	0.3	300.682	92.08647
B 249.678	491.894	ppb	1.6622	0.3	8072.60	98.37871
Ba 389.178	4773.89	ppb	11.8947	0.2	104883	95.47786
Be 313.042	493.907	ppb	1.8036	0.4	931145	98.78137
Ca 370.602	4742	ppb	15.68	0.3	13035	94.84057
Cd 226.502	488.486	ppb	0.8602	0.2	21922.9	97.69720
Co 228.615	494.433	ppb	0.4346	0.1	5941.45	98.88654
Cr 267.716	5009.75	ppb	10.5126	0.2	271635	100.19496
Cu 324.754	4945.39	ppb	48.7918	1.0	333417	98.90789
Fe 271.441	4896.86	ppb	16.7514	0.3	7979.48	97.93716
K 766.491	10013.5	ppb	29.7656	0.3	402753	100.13501
Mg 279.078	4843.15	ppb	11.3299	0.2	13069.9	96.86296
Mn 257.610	4978.85	ppb	2.8714	0.1	1042112	99.57704
Mo 202.032	480.557	ppb	1.4436	0.3	3228.45	96.11135
Na 330.237	7367.99	ppb	105.484	1.4	303.837	98.23990
Ni 231.604	2425.52	ppb	8.1639	0.3	7707.58	97.02077
Pb 220.353	482.800	ppb	3.3571	0.7	807.523	96.55995
Sb 206.834	909.032	ppb	1.9672	0.2	1310.29	90.90315
Se 196.026	4909.19	ppb	18.6419	0.4	2216.15	98.18381
Sn 189.925	4816.18	ppb	10.6587	0.2	3653.40	96.32366
Sr 216.596	2431.27	ppb	4.5071	0.2	30906.3	97.25084

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	481.270	ppb	0.9723	0.2	140183	96.25407
Tl 190.794	4902.36	ppb	17.6597	0.4	5151.40	98.04729
V 292.401	4827.49	ppb	9.4621	0.2	123131	96.54974
Zn 206.200	2485.31	ppb	4.8478	0.2	2919.61	99.41247

Cont Calib Blank (CCB) **11/14/2014, 6:34:10 PM** **Rack 1, Tube 38**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3563	0.0611	0.3290
Al 308.215	0.1639	1.0339	1.5965
As 188.980	3.5292	-3.6460u	2.8205
B 249.678	9.7223	8.4802	7.8189
Ba 389.178	0.2531	0.5319	-0.9851u
Be 313.042	0.0365	0.0362	0.0439
Ca 370.602	5.295	3.281	3.432
Cd 226.502	0.0400	-0.0207u	0.0404
Co 228.615	-0.7733u	-0.0602u	-0.3082u
Cr 267.716	0.4181	0.5168	0.4030
Cu 324.754	0.5455	0.1841	0.2501
Fe 271.441	2.9639	6.8687	7.1023
K 766.491	1.0396	1.3326	1.5339
Mg 279.078	0.2554	-1.0118u	2.7822
Mn 257.610	0.4924	0.5897	0.5500
Mo 202.032	-0.6255u	0.2057	-0.2868u
Na 330.237	-6.8547u	-44.6296u	-234.575u
Ni 231.604	0.3818	1.1323	0.4675
Pb 220.353	1.7617	0.4804	0.4884
Sb 206.834	6.0790	1.4798	0.9560
Se 196.026	3.7639	6.0915	2.0570
Sn 189.925	1.5434	0.3516	2.1897
Sr 216.596	0.2676	-0.0743u	0.3357
Ti 334.941	0.1286	0.1271	0.1929
Tl 190.794	-1.3665u	1.5503	-1.0100u
V 292.401	0.6320	0.4574	0.9983
Zn 206.200	0.9554	1.3619	2.6951

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2488	ppb	0.1631	65.6	-14.3944	0.24881
Al 308.215	0.9315	ppb	0.7218	77.5	449.618	0.93146
As 188.980	0.9013	ppb	3.9539	438.7	-5.4762	0.90127
B 249.678	8.6738	ppb	0.9664	11.1	183.649	8.67378
Ba 389.178	-0.0667	ppb	0.8075	1210.8	-39.1596	-0.06669
Be 313.042	0.0389	ppb	0.0044	11.2	-242.029	0.03889
Ca 370.602	4.002	ppb	1.122	28.0	33.40	4.00231
Cd 226.502	0.0199	ppb	0.0352	176.7	30.9980	0.01991
Co 228.615	-0.3806	ppb	0.3620	95.1	-3.9535	-0.38058
Cr 267.716	0.4460	ppb	0.0618	13.9	54.6612	0.44598
Cu 324.754	0.3266	ppb	0.1924	58.9	214.341	0.32658
Fe 271.441	5.6449	ppb	2.3248	41.2	23.7114	5.64495
K 766.491	1.3020	ppb	0.2486	19.1	280.967	1.30200
Mg 279.078	0.6752	ppb	1.9315	286.0	24.8149	0.67525
Mn 257.610	0.5440	ppb	0.0489	9.0	190.461	0.54403
Mo 202.032	-0.2355	ppb	0.4180	177.5	8.1466	-0.23553

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	-95.3529	ppb	122.040	128.0	25.2258	-95.35293
Ni 231.604	0.6605	ppb	0.4108	62.2	-3.9938	0.66053
Pb 220.353	0.9102	ppb	0.7375	81.0	14.0773	0.91017
Sb 206.834	2.8382	ppb	2.8187	99.3	-1.0814	2.83825
Se 196.026	3.9708	ppb	2.0252	51.0	6.1878	3.97082
Sn 189.925	1.3616	ppb	0.9325	68.5	-4.3174	1.36156
Sr 216.596	0.1763	ppb	0.2197	124.6	7.1864	0.17631
Ti 334.941	0.1496	ppb	0.0376	25.1	48.3893	0.14956
Tl 190.794	-0.2754	ppb	1.5911	577.7	-8.3618	-0.27543
V 292.401	0.6959	ppb	0.2761	39.7	-1.7056	0.69590
Zn 206.200	1.6708	ppb	0.9100	54.5	2.3417	1.67082

680-107159-a-1-a (Samp) **11/14/2014, 6:38:25 PM** **Rack 1, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5268u	0.9200	1.0227
Al 308.215	116554	116478	116398
As 188.980	290.769	297.648	297.550
B 249.678	27.9470u	27.2214u	27.4827u
Ba 389.178	1111.85	1110.05	1108.43
Be 313.042	10.0055	9.9928	9.9669
Ca 370.602	135802	136360	136697
Cd 226.502	2.7703	2.5909	2.3241
Co 228.615	68.7316	68.4937	69.9111
Cr 267.716	538.338	539.313	538.221
Cu 324.754	280.532	282.499	281.917
Fe 271.441	450775	449556	449798
K 766.491	9685.05	9683.13	9693.90
Mg 279.078	40244.9	40293.2	40255.5
Mn 257.610	5463.55	5468.39	5438.14
Mo 202.032	15.1802	15.5001	16.2152
Na 330.237	598.294u	487.940u	382.206u
Ni 231.604	82.8718	85.8491	84.1148
Pb 220.353	1299.13	1291.64	1294.96
Sb 206.834	9.5774	3.8831	3.6946
Se 196.026	-0.4011	-1.2119	16.9001
Sn 189.925	54.8090	55.7289	55.7633
Sr 216.596	255.116	256.967	255.527
Ti 334.941	1348.07	1344.50	1343.30
Tl 190.794	8.6212u	6.3541u	13.6692u
V 292.401	695.522	696.961	697.009
Zn 206.200	2285.65	2302.22	2286.93

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8231	ppb	0.2618	31.8	-22.4824
Al 308.215	116477	ppb	78.1941	0.1	767299
As 188.980	295.322	ppb	3.9432	1.3	187.829
B 249.678	27.5504	ppb	0.3675	1.3	-528.339
Ba 389.178	1110.11	ppb	1.7125	0.2	24779.2
Be 313.042	9.9884	ppb	0.0196	0.2	18598.0
Ca 370.602	136286	ppb	451.7	0.3	361417
Cd 226.502	2.5618	ppb	0.2245	8.8	2306.81
Co 228.615	69.0455	ppb	0.7590	1.1	892.206

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	538.624	ppb	0.5998	0.1	29474.2
Cu 324.754	281.649	ppb	1.0106	0.4	19343.0
Fe 271.441	450043	ppb	645.446	0.1	722873
K 766.491	9687.36	ppb	5.7445	0.1	389643
Mg 279.078	40264.5	ppb	25.3850	0.1	109203
Mn 257.610	5456.69	ppb	16.2469	0.3	1143664
Mo 202.032	15.6319	ppb	0.5299	3.4	93.0255
Na 330.237	489.480	ppb	108.052	22.1	-90.6225
Ni 231.604	84.2786	ppb	1.4954	1.8	301.309
Pb 220.353	1295.24	ppb	3.7519	0.3	2163.75
Sb 206.834	5.7184	ppb	3.3434	58.5	17.4957
Se 196.026	5.0957	ppb	10.2309	200.8	11.9135
Sn 189.925	55.4337	ppb	0.5413	1.0	36.7592
Sr 216.596	255.870	ppb	0.9722	0.4	3939.93
Ti 334.941	1345.29	ppb	2.4815	0.2	391947
Tl 190.794	9.5482	ppb	3.7446	39.2	-61.6587
V 292.401	696.497	ppb	0.8451	0.1	17616.8
Zn 206.200	2291.60	ppb	9.2204	0.4	2683.96

680-107159-a-2-a (Samp) **11/14/2014, 6:42:40 PM** **Rack 1, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1036u	-0.2478u	-0.0228u
Al 308.215	109505	109421	109570
As 188.980	273.336	265.305	267.771
B 249.678	17.8807u	17.2243u	15.9082u
Ba 389.178	922.751	921.083	922.329
Be 313.042	5.4920	5.5050	5.4988
Ca 370.602	53504	53456	53508
Cd 226.502	-2.0197	-1.9370	-1.8668
Co 228.615	32.9656	32.5390	32.7339
Cr 267.716	323.694	323.865	323.399
Cu 324.754	147.114	147.106	147.316
Fe 271.441	328506	328823	328691
K 766.491	6853.64	6872.99	6893.28
Mg 279.078	13123.1	13099.7	13127.4
Mn 257.610	3204.06	3202.12	3197.94
Mo 202.032	13.3996	12.5038	12.4696
Na 330.237	90.9391u	257.648u	503.325u
Ni 231.604	55.4665	55.1059	55.3497
Pb 220.353	598.614	591.845	591.170
Sb 206.834	6.5672	1.5389	0.4541
Se 196.026	10.9965	2.2288	8.4865
Sn 189.925	35.3037	33.1944	34.8685
Sr 216.596	238.483	237.407	236.891
Ti 334.941	1025.75	1025.47	1027.68
Tl 190.794	8.2785u	6.6090u	3.6062u
V 292.401	471.530	469.971	469.755
Zn 206.200	1133.46	1132.78	1129.52

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1247	ppb	0.1139	91.3	-88.9520
Al 308.215	109499	ppb	74.5903	0.1	721324

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	268.804	ppb	4.1137	1.5	170.951
B 249.678	17.0044	ppb	1.0044	5.9	-424.765
Ba 389.178	922.054	ppb	0.8670	0.1	20498.9
Be 313.042	5.4986	ppb	0.0065	0.1	10095.2
Ca 370.602	53489	ppb	29.29	0.1	140618
Cd 226.502	-1.9412	ppb	0.0765	3.9	1520.49
Co 228.615	32.7462	ppb	0.2135	0.7	440.246
Cr 267.716	323.653	ppb	0.2358	0.1	17750.7
Cu 324.754	147.179	ppb	0.1194	0.1	10235.5
Fe 271.441	328674	ppb	159.194	0.0	527927
K 766.491	6873.31	ppb	19.8236	0.3	276523
Mg 279.078	13116.7	ppb	14.8696	0.1	35533.7
Mn 257.610	3201.37	ppb	3.1282	0.1	671112
Mo 202.032	12.7910	ppb	0.5273	4.1	79.8406
Na 330.237	283.971	ppb	207.449	73.1	-50.9702
Ni 231.604	55.3073	ppb	0.1840	0.3	198.581
Pb 220.353	593.876	ppb	4.1170	0.7	1006.56
Sb 206.834	2.8534	ppb	3.2617	114.3	8.6789
Se 196.026	7.2373	ppb	4.5153	62.4	11.2926
Sn 189.925	34.4556	ppb	1.1136	3.2	20.8228
Sr 216.596	237.594	ppb	0.8126	0.3	3506.46
Ti 334.941	1026.30	ppb	1.2009	0.1	298979
Tl 190.794	6.1646	ppb	2.3677	38.4	-48.5098
V 292.401	470.419	ppb	0.9686	0.2	11885.3
Zn 206.200	1131.92	ppb	2.1027	0.2	1321.71

680-107159-a-3-a (Samp) **11/14/2014, 6:46:55 PM** **Rack 1, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1032u	0.0927u	0.2260u
Al 308.215	91481.7	91669.0	91702.9
As 188.980	127.422	126.226	135.237
B 249.678	12.7784u	12.5702u	12.5337u
Ba 389.178	303.324	303.441	303.424
Be 313.042	3.1588	3.1655	3.1529
Ca 370.602	21123	21108	21047
Cd 226.502	-2.5115	-2.4694	-2.2976
Co 228.615	31.7641	32.0932	32.4926
Cr 267.716	168.540	168.261	168.091
Cu 324.754	59.8308	59.5571	59.9750
Fe 271.441	250831	250608	250995
K 766.491	3811.26	3821.68	3822.96
Mg 279.078	6875.74	6888.27	6891.57
Mn 257.610	1935.69	1934.32	1940.45
Mo 202.032	7.5247	6.8296	6.9145
Na 330.237	109.180u	46.8754u	-70.7213u
Ni 231.604	36.0139	34.3940	35.1436
Pb 220.353	318.342	312.887	313.809
Sb 206.834	-0.0534	0.7247	-1.2713
Se 196.026	3.5754	11.8458	10.0947
Sn 189.925	21.4577	25.0389	24.5928
Sr 216.596	66.0068	65.3262	65.1766
Ti 334.941	912.294	914.006	914.313

Label	Replicates Concentration		
Tl 190.794	2.5138u	6.4470u	3.8011u
V 292.401	312.677	312.855	312.996
Zn 206.200	417.801	420.252	417.710

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1407	ppb	0.0741	52.7	-55.7539
Al 308.215	91617.9	ppb	119.149	0.1	603592
As 188.980	129.629	ppb	4.8940	3.8	78.6873
B 249.678	12.6274	ppb	0.1320	1.0	-320.015
Ba 389.178	303.396	ppb	0.0636	0.0	6833.40
Be 313.042	3.1591	ppb	0.0063	0.2	5665.84
Ca 370.602	21093	ppb	40.65	0.2	54512
Cd 226.502	-2.4261	ppb	0.1133	4.7	1125.07
Co 228.615	32.1166	ppb	0.3648	1.1	424.447
Cr 267.716	168.297	ppb	0.2266	0.1	9285.01
Cu 324.754	59.7876	ppb	0.2123	0.4	4317.24
Fe 271.441	250811	ppb	194.397	0.1	402866
K 766.491	3818.64	ppb	6.4190	0.2	153731
Mg 279.078	6885.19	ppb	8.3500	0.1	18645.0
Mn 257.610	1936.82	ppb	3.2182	0.2	406194
Mo 202.032	7.0896	ppb	0.3792	5.3	45.3569
Na 330.237	28.4446	ppb	91.3556	321.2	-31.5894
Ni 231.604	35.1838	ppb	0.8107	2.3	127.751
Pb 220.353	315.013	ppb	2.9201	0.9	544.494
Sb 206.834	-0.2000	ppb	1.0060	503.1	1.2046
Se 196.026	8.5053	ppb	4.3583	51.2	10.8895
Sn 189.925	23.6965	ppb	1.9516	8.2	12.6495
Sr 216.596	65.5032	ppb	0.4425	0.7	1194.29
Ti 334.941	913.538	ppb	1.0878	0.1	266117
Tl 190.794	4.2539	ppb	2.0053	47.1	-39.7024
V 292.401	312.843	ppb	0.1601	0.1	7889.94
Zn 206.200	418.588	ppb	1.4421	0.3	483.946

680-107159-a-4-a (Samp) **11/14/2014, 6:51:11 PM** **Rack 1, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2886u	0.0285u	-0.2294u
Al 308.215	115639	115654	115580
As 188.980	198.653	204.486	200.821
B 249.678	8.9438u	9.3693u	8.4720u
Ba 389.178	140.823	141.690	140.932
Be 313.042	3.9614	3.9586	3.9424
Ca 370.602	10131	10158	10157
Cd 226.502	-5.3968	-5.3844	-5.8788
Co 228.615	49.8190	48.5301	49.0754
Cr 267.716	894.381	894.720	895.683
Cu 324.754	43.5905	43.2539	44.3892
Fe 271.441	513740	513183	514333
K 766.491	2323.50	2318.45	2323.50
Mg 279.078	4828.16	4820.51	4819.07
Mn 257.610	1826.93	1821.32	1819.15
Mo 202.032	9.9440	10.1931	9.8916
Na 330.237	-136.628u	23.3086u	136.348u

Label	Replicates Concentration		
Ni 231.604	29.0440	28.5229	31.8618
Pb 220.353	93.0309	92.9096	94.2460
Sb 206.834	-1.8374	-0.7915	-4.9684
Se 196.026	10.4702	12.6797	5.4172
Sn 189.925	23.4354	19.6544	24.8885
Sr 216.596	42.9083	43.1872	42.0900
Ti 334.941	760.053	759.967	759.188
Tl 190.794	8.4222u	8.5478u	6.8003u
V 292.401	594.333	596.024	595.286
Zn 206.200	148.598	147.881	144.551

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1632	ppb	0.1686	103.4	-122.254
Al 308.215	115625	ppb	39.1844	0.0	761682
As 188.980	201.320	ppb	2.9482	1.5	124.750
B 249.678	8.9284	ppb	0.4489	5.0	-976.480
Ba 389.178	141.148	ppb	0.4720	0.3	3464.08
Be 313.042	3.9541	ppb	0.0102	0.3	7171.20
Ca 370.602	10149	ppb	14.99	0.1	22571
Cd 226.502	-5.5533	ppb	0.2819	5.1	2249.60
Co 228.615	49.1415	ppb	0.6470	1.3	645.789
Cr 267.716	894.928	ppb	0.6758	0.1	48806.2
Cu 324.754	43.7446	ppb	0.5831	1.3	3337.06
Fe 271.441	513752	ppb	574.979	0.1	825198
K 766.491	2321.82	ppb	2.9177	0.1	93561.5
Mg 279.078	4822.58	ppb	4.8888	0.1	13037.4
Mn 257.610	1822.47	ppb	4.0185	0.2	383005
Mo 202.032	10.0096	ppb	0.1611	1.6	52.4750
Na 330.237	7.6760	ppb	137.158	1786.8	-84.0538
Ni 231.604	29.8096	ppb	1.7963	6.0	133.694
Pb 220.353	93.3955	ppb	0.7391	0.8	200.199
Sb 206.834	-2.5324	ppb	2.1735	85.8	11.7439
Se 196.026	9.5223	ppb	3.7229	39.1	13.6555
Sn 189.925	22.6594	ppb	2.7020	11.9	11.8611
Sr 216.596	42.7285	ppb	0.5703	1.3	1263.78
Ti 334.941	759.736	ppb	0.4763	0.1	221352
Tl 190.794	7.9234	ppb	0.9747	12.3	-74.8758
V 292.401	595.214	ppb	0.8474	0.1	14985.9
Zn 206.200	147.010	ppb	2.1595	1.5	152.041

680-107159-a-5-a (Samp) **11/14/2014, 6:55:27 PM** **Rack 1, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.0460	0.7398	1.0402
Al 308.215	111591	111632	111234
As 188.980	355.122	359.539	354.339
B 249.678	37.2256u	37.9302u	38.0014u
Ba 389.178	1763.35	1764.21	1757.72
Be 313.042	10.9341	10.9425	10.8872
Ca 370.602	164140	164140	162961
Cd 226.502	5.0690	5.3711	5.1914
Co 228.615	56.5168	55.7922	56.1149
Cr 267.716	401.207	400.284	399.406

Label	Replicates Concentration		
Cu 324.754	371.127	369.674	368.872
Fe 271.441	361065	360799	360428
K 766.491	9550.42	9557.95	9542.14
Mg 279.078	28839.8	28831.2	28717.8
Mn 257.610	5023.82	5044.43	5022.05
Mo 202.032	15.2543	15.1143	15.1337
Na 330.237	470.619u	569.526u	557.323u
Ni 231.604	88.9650	88.0650	88.6930
Pb 220.353	2246.64	2248.38	2234.06
Sb 206.834	9.7939	5.0588	6.0579
Se 196.026	8.1243	13.1521	1.8897
Sn 189.925	73.2465	71.8666	70.9019
Sr 216.596	377.443	375.653	375.059
Ti 334.941	1525.15	1526.10	1521.93
Tl 190.794	9.6810u	5.5716u	8.4942u
V 292.401	523.580	522.613	520.730
Zn 206.200	2936.28	2920.86	2904.17

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9420	ppb	0.1752	18.6	-4.5369
Al 308.215	111486	ppb	218.840	0.2	734413
As 188.980	356.333	ppb	2.8035	0.8	229.088
B 249.678	37.7191	ppb	0.4288	1.1	-159.399
Ba 389.178	1761.76	ppb	3.5259	0.2	39005.9
Be 313.042	10.9212	ppb	0.0298	0.3	20359.4
Ca 370.602	163747	ppb	680.5	0.4	435912
Cd 226.502	5.2105	ppb	0.1520	2.9	1994.46
Co 228.615	56.1413	ppb	0.3630	0.6	734.514
Cr 267.716	400.299	ppb	0.9006	0.2	21931.2
Cu 324.754	369.891	ppb	1.1430	0.3	25256.3
Fe 271.441	360764	ppb	320.192	0.1	579473
K 766.491	9550.17	ppb	7.9077	0.1	384128
Mg 279.078	28796.3	ppb	68.1199	0.2	78072.5
Mn 257.610	5030.10	ppb	12.4430	0.2	1054042
Mo 202.032	15.1675	ppb	0.0758	0.5	94.2410
Na 330.237	532.489	ppb	53.9274	10.1	-81.5758
Ni 231.604	88.5743	ppb	0.4616	0.5	307.148
Pb 220.353	2243.03	ppb	7.8119	0.3	3709.16
Sb 206.834	6.9702	ppb	2.4959	35.8	15.8952
Se 196.026	7.7220	ppb	5.6420	73.1	12.2053
Sn 189.925	72.0050	ppb	1.1784	1.6	49.3482
Sr 216.596	376.052	ppb	1.2411	0.3	5358.05
Ti 334.941	1524.39	ppb	2.1877	0.1	444080
Tl 190.794	7.9156	ppb	2.1149	26.7	-50.4581
V 292.401	522.308	ppb	1.4492	0.3	13200.9
Zn 206.200	2920.44	ppb	16.0582	0.5	3429.16

680-107159-a-6-a (Samp) **11/14/2014, 6:59:43 PM** **Rack 1, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.4259	0.9215	1.2331
Al 308.215	110839	108892	121796
As 188.980	235.338	241.471	264.133

Label	Replicates Concentration		
B 249.678	28.7147u	29.1476u	27.7330u
Ba 389.178	1025.44	1008.06	1120.22
Be 313.042	7.5523	7.4235	8.2459
Ca 370.602	242765	236132	264976
Cd 226.502	-0.1239	-0.4198	4.1121
Co 228.615	32.0568	31.3771	36.3478
Cr 267.716	283.140	278.159	311.056
Cu 324.754	227.396	226.838	233.194
Fe 271.441	326148	320623	356446
K 766.491	9306.83	9219.20	10016.3
Mg 279.078	42412.8	41678.1	46361.4
Mn 257.610	3585.69	3531.50	3942.20
Mo 202.032	9.7739	9.1634	9.5667
Na 330.237	1054.74u	1286.63u	814.624u
Ni 231.604	56.9724	57.6368	66.2055
Pb 220.353	829.656	814.277	910.848
Sb 206.834	1.0197	2.8552	1.3313
Se 196.026	2.8811	8.3905	21.7238
Sn 189.925	34.9276	35.0545	42.1968
Sr 216.596	433.226	424.116	479.487
Ti 334.941	1654.86	1626.80	1805.30
Tl 190.794	6.1688u	3.1343u	0.1115u
V 292.401	424.243	414.960	460.832
Zn 206.200	1237.85	1215.61	1342.13

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.1935	ppb	0.2545	21.3	10.3795
Al 308.215	113842	ppb	6956.50	6.1	749912
As 188.980	246.981	ppb	15.1675	6.1	156.364
B 249.678	28.5318	ppb	0.7248	2.5	-250.500
Ba 389.178	1051.24	ppb	60.3675	5.7	23404.1
Be 313.042	7.7406	ppb	0.4423	5.7	14390.4
Ca 370.602	247957	ppb	15107	6.1	661787
Cd 226.502	1.1895	ppb	2.5354	213.2	1689.25
Co 228.615	33.2605	ppb	2.6951	8.1	461.804
Cr 267.716	290.785	ppb	17.7310	6.1	15975.7
Cu 324.754	229.143	ppb	3.5194	1.5	15761.9
Fe 271.441	334406	ppb	19286.1	5.8	537134
K 766.491	9514.10	ppb	437.099	4.6	382678
Mg 279.078	43484.1	ppb	2518.75	5.8	117983
Mn 257.610	3686.46	ppb	223.122	6.1	772878
Mo 202.032	9.5014	ppb	0.3104	3.3	57.5254
Na 330.237	1051.99	ppb	236.013	22.4	-21.1952
Ni 231.604	60.2715	ppb	5.1497	8.5	214.904
Pb 220.353	851.594	ppb	51.8890	6.1	1428.61
Sb 206.834	1.7354	ppb	0.9823	56.6	6.8965
Se 196.026	10.9985	ppb	9.6883	88.1	13.1475
Sn 189.925	37.3930	ppb	4.1607	11.1	23.0545
Sr 216.596	445.610	ppb	29.6902	6.7	6243.70
Ti 334.941	1695.65	ppb	95.9833	5.7	493983
Tl 190.794	3.1382	ppb	3.0286	96.5	-52.4128
V 292.401	433.345	ppb	24.2530	5.6	10942.1
Zn 206.200	1265.20	ppb	67.5490	5.3	1478.70

680-107159-a-7-a (Samp) **11/14/2014, 7:03:59 PM** **Rack 1, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1785u	-0.3769u	-0.4316u
Al 308.215	101139	100959	101064
As 188.980	180.823	185.006	183.806
B 249.678	12.4080u	12.3198u	12.0772u
Ba 389.178	456.789	457.583	456.545
Be 313.042	3.7317	3.7305	3.7241
Ca 370.602	38967	38957	38946
Cd 226.502	-3.3608	-3.6110	-3.1636
Co 228.615	29.4001	29.4798	29.4033
Cr 267.716	239.768	239.470	238.834
Cu 324.754	86.6628	86.4087	87.2875
Fe 271.441	330376	329740	329823
K 766.491	4678.99	4668.06	4667.15
Mg 279.078	15633.9	15618.1	15620.4
Mn 257.610	1945.76	1941.53	1942.42
Mo 202.032	7.8752	7.9964	8.6148
Na 330.237	55.5525u	-35.2703u	105.935u
Ni 231.604	46.6701	46.8550	48.2539
Pb 220.353	334.270	328.488	324.257
Sb 206.834	0.1726	4.6777	-3.2150
Se 196.026	-0.6035	-0.0246	0.6138
Sn 189.925	25.4384	25.3319	27.9474
Sr 216.596	115.543	114.828	115.685
Ti 334.941	978.340	977.254	977.874
Tl 190.794	11.3453u	4.8193u	8.9651u
V 292.401	389.209	389.490	389.030
Zn 206.200	369.269	371.051	369.459

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3290	ppb	0.1332	40.5	-108.037
Al 308.215	101054	ppb	90.3375	0.1	665723
As 188.980	183.212	ppb	2.1539	1.2	113.887
B 249.678	12.2683	ppb	0.1713	1.4	-505.202
Ba 389.178	456.972	ppb	0.5426	0.1	10285.9
Be 313.042	3.7287	ppb	0.0041	0.1	6748.82
Ca 370.602	38957	ppb	10.53	0.0	101623
Cd 226.502	-3.3785	ppb	0.2242	6.6	1462.80
Co 228.615	29.4278	ppb	0.0451	0.2	399.384
Cr 267.716	239.357	ppb	0.4768	0.2	13175.3
Cu 324.754	86.7864	ppb	0.4522	0.5	6167.17
Fe 271.441	329980	ppb	346.182	0.1	530024
K 766.491	4671.40	ppb	6.5911	0.1	188010
Mg 279.078	15624.1	ppb	8.5111	0.1	42371.5
Mn 257.610	1943.24	ppb	2.2293	0.1	407830
Mo 202.032	8.1622	ppb	0.3967	4.9	48.8093
Na 330.237	42.0726	ppb	71.5614	170.1	-47.1374
Ni 231.604	47.2597	ppb	0.8660	1.8	173.109
Pb 220.353	329.005	ppb	5.0264	1.5	572.785
Sb 206.834	0.5451	ppb	3.9595	726.4	4.5278
Se 196.026	-0.0048	ppb	0.6089	12728.3	7.7609
Sn 189.925	26.2393	ppb	1.4802	5.6	14.5810
Sr 216.596	115.352	ppb	0.4590	0.4	1945.71

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	977.823	ppb	0.5450	0.1	284865
Tl 190.794	8.3765	ppb	3.3026	39.4	-47.1260
V 292.401	389.243	ppb	0.2317	0.1	9813.17
Zn 206.200	369.926	ppb	0.9784	0.3	423.379

680-107159-a-8-a (Samp) **11/14/2014, 7:08:16 PM** **Rack 1, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8662u	-0.4794u	-0.0389u
Al 308.215	117751	117840	117884
As 188.980	142.172	144.423	144.102
B 249.678	10.8868u	10.5111u	10.3948u
Ba 389.178	399.452	399.963	399.607
Be 313.042	3.6474	3.6614	3.6499
Ca 370.602	20278	20220	20221
Cd 226.502	-3.0490	-3.0049	-3.1149
Co 228.615	61.1679	61.2112	60.6459
Cr 267.716	187.789	186.997	187.406
Cu 324.754	62.1649	60.8114	62.3716
Fe 271.441	277977	277745	278368
K 766.491	3982.59	3988.47	3991.94
Mg 279.078	8832.58	8811.61	8838.65
Mn 257.610	2695.15	2688.07	2702.97
Mo 202.032	7.8162	7.6740	8.7502
Na 330.237	82.3749u	85.8201u	76.3601u
Ni 231.604	59.6208	57.4496	57.3219
Pb 220.353	263.796	262.256	264.724
Sb 206.834	4.0745	-1.0404	1.2768
Se 196.026	9.3165	3.5277	11.1428
Sn 189.925	28.2695	24.8681	22.2799
Sr 216.596	75.8949	77.3331	77.7916
Ti 334.941	988.271	987.226	988.756
Tl 190.794	8.1047u	11.8125u	7.5983u
V 292.401	366.170	364.039	365.347
Zn 206.200	363.345	366.233	364.850

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4615	ppb	0.4139	89.7	-104.980
Al 308.215	117825	ppb	67.9868	0.1	776112
As 188.980	143.566	ppb	1.2176	0.8	87.8010
B 249.678	10.5976	ppb	0.2571	2.4	-414.077
Ba 389.178	399.674	ppb	0.2619	0.1	8973.31
Be 313.042	3.6529	ppb	0.0075	0.2	6600.85
Ca 370.602	20240	ppb	32.75	0.2	52015
Cd 226.502	-3.0563	ppb	0.0553	1.8	1226.03
Co 228.615	61.0083	ppb	0.3146	0.5	774.813
Cr 267.716	187.397	ppb	0.3963	0.2	10337.1
Cu 324.754	61.7826	ppb	0.8475	1.4	4461.73
Fe 271.441	278030	ppb	315.087	0.1	446588
K 766.491	3987.67	ppb	4.7257	0.1	160526
Mg 279.078	8827.61	ppb	14.1889	0.2	23894.1
Mn 257.610	2695.40	ppb	7.4554	0.3	565041
Mo 202.032	8.0801	ppb	0.5847	7.2	50.7028

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	81.5183	ppb	4.7878	5.9	-34.0274
Ni 231.604	58.1308	ppb	1.2920	2.2	203.031
Pb 220.353	263.592	ppb	1.2465	0.5	461.919
Sb 206.834	1.4370	ppb	2.5612	178.2	4.1705
Se 196.026	7.9957	ppb	3.9757	49.7	11.0699
Sn 189.925	25.1392	ppb	3.0040	11.9	13.7454
Sr 216.596	77.0065	ppb	0.9896	1.3	1377.02
Ti 334.941	988.084	ppb	0.7822	0.1	287837
Tl 190.794	9.1719	ppb	2.3009	25.1	-38.0427
V 292.401	365.185	ppb	1.0746	0.3	9218.37
Zn 206.200	364.810	ppb	1.4443	0.4	419.464

680-107159-a-9-a (Samp) **11/14/2014, 7:12:32 PM** **Rack 1, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0931u	0.3428u	-0.5437u
Al 308.215	91296.8	91132.3	91227.8
As 188.980	81.4125	83.9140	81.1206
B 249.678	8.6526u	8.3676u	8.7726u
Ba 389.178	337.704	337.465	338.738
Be 313.042	3.7817	3.7856	3.7863
Ca 370.602	14712	14729	14801
Cd 226.502	-1.8298	-1.7878	-1.9034
Co 228.615	29.6356	30.2326	29.5247
Cr 267.716	264.883	264.275	264.791
Cu 324.754	51.7080	51.4150	52.2808
Fe 271.441	199717	199586	200099
K 766.491	2830.68	2830.40	2835.26
Mg 279.078	5377.69	5379.87	5393.34
Mn 257.610	839.347	838.044	837.134
Mo 202.032	4.4967	5.0019	4.5572
Na 330.237	156.439u	-7.0732u	162.895u
Ni 231.604	34.1408	35.2328	34.6091
Pb 220.353	193.335	200.040	204.089
Sb 206.834	-0.5860	3.3675	-5.2455u
Se 196.026	6.3905	2.6309	9.8620
Sn 189.925	25.7166	22.9649	28.6001
Sr 216.596	62.3729	62.5118	62.4949
Ti 334.941	521.856	520.635	521.279
Tl 190.794	-0.5282u	1.2370u	1.8985u
V 292.401	275.899	275.664	276.940
Zn 206.200	464.091	468.799	466.461

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0980	ppb	0.4433	452.4	-71.9016
Al 308.215	91218.9	ppb	82.6271	0.1	600956
As 188.980	82.1490	ppb	1.5354	1.9	47.3728
B 249.678	8.5976	ppb	0.2080	2.4	-270.051
Ba 389.178	337.969	ppb	0.6762	0.2	7551.20
Be 313.042	3.7845	ppb	0.0025	0.1	6842.91
Ca 370.602	14747	ppb	47.27	0.3	37823
Cd 226.502	-1.8403	ppb	0.0585	3.2	906.414
Co 228.615	29.7976	ppb	0.3807	1.3	384.566

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	264.650	ppb	0.3276	0.1	14479.0
Cu 324.754	51.8013	ppb	0.4404	0.9	3759.12
Fe 271.441	199801	ppb	266.729	0.1	320934
K 766.491	2832.11	ppb	2.7292	0.1	114074
Mg 279.078	5383.63	ppb	8.4742	0.2	14590.5
Mn 257.610	838.175	ppb	1.1123	0.1	176108
Mo 202.032	4.6853	ppb	0.2759	5.9	31.6294
Na 330.237	104.087	ppb	96.3217	92.5	-18.1249
Ni 231.604	34.6609	ppb	0.5478	1.6	121.615
Pb 220.353	199.155	ppb	5.4316	2.7	351.320
Sb 206.834	-0.8213	ppb	4.3113	524.9	0.6722
Se 196.026	6.2945	ppb	3.6165	57.5	9.1937
Sn 189.925	25.7605	ppb	2.8179	10.9	14.2176
Sr 216.596	62.4599	ppb	0.0758	0.1	1082.17
Ti 334.941	521.257	ppb	0.6108	0.1	151858
Tl 190.794	0.8691	ppb	1.2545	144.3	-36.1919
V 292.401	276.168	ppb	0.6791	0.2	6963.65
Zn 206.200	466.450	ppb	2.3538	0.5	542.128

680-107159-a-10-a (Samp) **11/14/2014, 7:16:50 PM** **Rack 1, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	2.7210	3.0682	2.5671
Al 308.215	59384.8	56595.4	56564.2
As 188.980	314.890	317.160	311.243
B 249.678	38.2833u	41.1221u	41.3427u
Ba 389.178	1448.75	1392.39	1388.82
Be 313.042	4.9483	4.7377	4.7396
Ca 370.602	58261	55927	55830
Cd 226.502	20.2936	16.4655	16.5682
Co 228.615	52.4539	48.7796	48.7768
Cr 267.716	685.536	654.333	653.618
Cu 324.754	720.572	747.081	753.286
Fe 271.441	472223	450505	449852
K 766.491	5743.42	5598.56	5604.15
Mg 279.078	17857.0	17065.5	17056.4
Mn 257.610	4109.44	3939.33	3920.97
Mo 202.032	23.5569	22.6331	22.8210
Na 330.237	483.860u	912.367u	765.639u
Ni 231.604	98.5942	94.0180	94.1297
Pb 220.353	2224.54	2123.64	2123.05
Sb 206.834	10.2508	6.0570	11.2771
Se 196.026	8.1656	7.3693	17.9417
Sn 189.925	132.615	121.823	130.415
Sr 216.596	187.000	175.574	174.810
Ti 334.941	1331.05	1273.89	1272.26
Tl 190.794	6.9904u	14.1624u	6.5740u
V 292.401	269.146	258.456	258.301
Zn 206.200	5176.07	4931.46	4925.28

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.7855	ppb	0.2567	9.2	128.812
Al 308.215	57514.8	ppb	1619.57	2.8	379121

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	314.431	ppb	2.9853	0.9	200.519
B 249.678	40.2494	ppb	1.7063	4.2	-336.731
Ba 389.178	1409.99	ppb	33.6189	2.4	31325.8
Be 313.042	4.8085	ppb	0.1210	2.5	8772.51
Ca 370.602	56672	ppb	1376	2.4	148020
Cd 226.502	17.7758	ppb	2.1811	12.3	3021.08
Co 228.615	50.0034	ppb	2.1221	4.2	662.909
Cr 267.716	664.496	ppb	18.2254	2.7	36299.1
Cu 324.754	740.313	ppb	17.3755	2.3	50261.2
Fe 271.441	457527	ppb	12731.8	2.8	734888
K 766.491	5648.71	ppb	82.0678	1.5	227297
Mg 279.078	17326.3	ppb	459.610	2.7	46967.9
Mn 257.610	3989.91	ppb	103.921	2.6	836542
Mo 202.032	23.0037	ppb	0.4882	2.1	142.630
Na 330.237	720.623	ppb	217.772	30.2	-134.474
Ni 231.604	95.5806	ppb	2.6104	2.7	337.889
Pb 220.353	2157.08	ppb	58.4220	2.7	3576.02
Sb 206.834	9.1950	ppb	2.7656	30.1	23.8843
Se 196.026	11.1589	ppb	5.8875	52.8	14.3773
Sn 189.925	128.285	ppb	5.7026	4.4	92.1024
Sr 216.596	179.128	ppb	6.8280	3.8	2939.55
Ti 334.941	1292.40	ppb	33.4802	2.6	376501
Tl 190.794	9.2423	ppb	4.2660	46.2	-64.4953
V 292.401	261.968	ppb	6.2168	2.4	6495.44
Zn 206.200	5010.94	ppb	143.039	2.9	5889.79

Cont Calib Verif (CCV) **11/14/2014, 7:21:06 PM** **Rack 1, Tube 49**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	495.246	493.601	493.625
Al 308.215	4847.97	4852.30	4852.30
As 188.980	468.172	454.796	466.645
B 249.678	490.628	492.540	494.582
Ba 389.178	4791.50	4793.76	4775.34
Be 313.042	501.249	501.626	500.958
Ca 370.602	4764	4760	4747
Cd 226.502	490.540	490.801	488.993
Co 228.615	496.398	496.371	495.454
Cr 267.716	5051.69	5059.89	5040.68
Cu 324.754	5045.12	4986.65	5086.68
Fe 271.441	4953.48	4951.99	4945.16
K 766.491	10111.2	10113.9	10093.3
Mg 279.078	4887.28	4898.05	4884.92
Mn 257.610	5007.53	5023.35	5021.51
Mo 202.032	481.525	481.457	480.703
Na 330.237	7545.88	7308.15	7489.16
Ni 231.604	2464.32	2472.25	2460.64
Pb 220.353	484.502	483.940	481.657
Sb 206.834	910.234	910.019	912.245
Se 196.026	4925.23	4946.69	4952.97
Sn 189.925	4848.40	4764.26	4845.23
Sr 216.596	2440.87	2456.64	2443.96
Ti 334.941	485.371	485.718	484.747

Label	Replicates Concentration		
Tl 190.794	4912.62	4922.08	4893.42
V 292.401	4862.09	4865.10	4844.45
Zn 206.200	2511.17	2498.77	2505.21

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	494.157	ppb	0.9424	0.2	39642.2	98.83148
Al 308.215	4850.86	ppb	2.5012	0.1	33011.7	97.01715
As 188.980	463.205	ppb	7.3216	1.6	302.530	92.64091
B 249.678	492.583	ppb	1.9776	0.4	8083.74	98.51667
Ba 389.178	4786.87	ppb	10.0451	0.2	105168	95.73734
Be 313.042	501.278	ppb	0.3350	0.1	945045	100.25555
Ca 370.602	4757	ppb	8.865	0.2	13077	95.13703
Cd 226.502	490.112	ppb	0.9772	0.2	21995.9	98.02230
Co 228.615	496.074	ppb	0.5372	0.1	5961.35	99.21489
Cr 267.716	5050.76	ppb	9.6374	0.2	273858	101.01511
Cu 324.754	5039.48	ppb	50.2515	1.0	339758	100.78969
Fe 271.441	4950.21	ppb	4.4346	0.1	8065.67	99.00422
K 766.491	10106.1	ppb	11.1806	0.1	406477	101.06134
Mg 279.078	4890.08	ppb	7.0019	0.1	13196.7	97.80166
Mn 257.610	5017.47	ppb	8.6514	0.2	1050193	100.34933
Mo 202.032	481.228	ppb	0.4560	0.1	3232.92	96.24568
Na 330.237	7447.73	ppb	124.164	1.7	306.892	99.30306
Ni 231.604	2465.73	ppb	5.9343	0.2	7835.48	98.62939
Pb 220.353	483.366	ppb	1.5070	0.3	808.497	96.67329
Sb 206.834	910.833	ppb	1.2279	0.1	1313.39	91.08330
Se 196.026	4941.63	ppb	14.5457	0.3	2230.77	98.83258
Sn 189.925	4819.30	ppb	47.6906	1.0	3655.77	96.38595
Sr 216.596	2447.16	ppb	8.3575	0.3	31107.5	97.88627
Ti 334.941	485.279	ppb	0.4920	0.1	141350	97.05579
Tl 190.794	4909.37	ppb	14.6007	0.3	5158.82	98.18747
V 292.401	4857.22	ppb	11.1564	0.2	123889	97.14431
Zn 206.200	2505.05	ppb	6.2021	0.2	2942.77	100.20191

Cont Calib Blank (CCB) **11/14/2014, 7:25:21 PM** **Rack 1, Tube 50**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3368	0.6085	0.1509
Al 308.215	0.2885	0.5915	-0.1845u
As 188.980	4.2630	-0.0156u	-1.9735u
B 249.678	8.8610	7.2468	6.9398
Ba 389.178	0.2708	-0.7610u	0.0624
Be 313.042	0.0370	0.0326	0.0337
Ca 370.602	-2.481u	1.188	0.3378
Cd 226.502	0.1481	-0.1079u	0.0212
Co 228.615	-0.2504u	-0.2720u	-0.3631u
Cr 267.716	0.3996	0.3939	0.2786
Cu 324.754	0.3521	0.3833	0.5617
Fe 271.441	7.6705	8.3788	6.1677
K 766.491	1.1257	0.8561	0.7079
Mg 279.078	1.8002	-0.0125u	0.4398
Mn 257.610	0.3612	0.3404	0.3331
Mo 202.032	0.0367	-0.0370u	-0.5615u
Na 330.237	38.2516	-83.5194u	-150.440u

Label	Replicates Concentration		
Ni 231.604	1.3984	2.4950	0.4360
Pb 220.353	2.5892	0.6244	-0.1181u
Sb 206.834	5.0303	3.8232	2.2764
Se 196.026	5.8857	3.3078	5.5608
Sn 189.925	3.5167	1.9812	2.0616
Sr 216.596	0.5694	0.4795	0.5181
Ti 334.941	0.1474	0.1595	0.1837
Tl 190.794	3.1247	-0.7481u	0.5541
V 292.401	0.7971	0.8326	0.8396
Zn 206.200	1.6491	2.5528	1.2217

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3654	ppb	0.2301	63.0	-5.0313	0.36536
Al 308.215	0.2319	ppb	0.3911	168.7	445.001	0.23187
As 188.980	0.7580	ppb	3.1894	420.8	-5.5717	0.75797
B 249.678	7.6825	ppb	1.0321	13.4	167.467	7.68252
Ba 389.178	-0.1426	ppb	0.5456	382.5	-40.8283	-0.14263
Be 313.042	0.0345	ppb	0.0023	6.6	-250.366	0.03446
Ca 370.602	-0.3182	ppb	1.920	603.4	21.81	-0.31823
Cd 226.502	0.0205	ppb	0.1280	625.8	31.0320	0.02046
Co 228.615	-0.2952	ppb	0.0598	20.3	-2.9258	-0.29518
Cr 267.716	0.3574	ppb	0.0683	19.1	49.8563	0.35735
Cu 324.754	0.4324	ppb	0.1131	26.2	221.468	0.43238
Fe 271.441	7.4057	ppb	1.1291	15.2	26.5594	7.40568
K 766.491	0.8966	ppb	0.2118	23.6	264.669	0.89656
Mg 279.078	0.7425	ppb	0.9435	127.1	25.0013	0.74250
Mn 257.610	0.3449	ppb	0.0146	4.2	148.789	0.34490
Mo 202.032	-0.1873	ppb	0.3262	174.2	8.4704	-0.18726
Na 330.237	-65.2360	ppb	95.6654	146.6	26.5482	-65.23598
Ni 231.604	1.4431	ppb	1.0302	71.4	-1.5049	1.44314
Pb 220.353	1.0319	ppb	1.3989	135.6	14.2767	1.03187
Sb 206.834	3.7100	ppb	1.3804	37.2	0.1274	3.70998
Se 196.026	4.9181	ppb	1.4040	28.5	6.6143	4.91809
Sn 189.925	2.5198	ppb	0.8642	34.3	-3.4375	2.51981
Sr 216.596	0.5223	ppb	0.0451	8.6	11.5733	0.52235
Ti 334.941	0.1635	ppb	0.0185	11.3	52.4612	0.16354
Tl 190.794	0.9769	ppb	1.9707	201.7	-7.0458	0.97687
V 292.401	0.8231	ppb	0.0228	2.8	1.5694	0.82312
Zn 206.200	1.8079	ppb	0.6796	37.6	2.5033	1.80788

680-107159-a-11-a (Samp) **11/14/2014, 7:29:36 PM** **Rack 1, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.7609	1.9165	1.4756
Al 308.215	60475.0	60494.4	60624.0
As 188.980	161.286	155.348	158.286
B 249.678	30.2643u	29.7209u	29.9264u
Ba 389.178	1513.73	1512.30	1515.72
Be 313.042	3.7360	3.7306	3.7622
Ca 370.602	26161	26090	26196
Cd 226.502	5.9724	6.0415	5.9046
Co 228.615	47.9523	47.7782	48.0042
Cr 267.716	423.505	423.236	425.047

Label	Replicates Concentration		
Cu 324.754	853.025	857.561	847.085
Fe 271.441	294406	294552	295399
K 766.491	5968.05	5985.93	5985.96
Mg 279.078	8916.26	8915.51	8929.19
Mn 257.610	4307.66	4305.30	4326.46
Mo 202.032	15.7329	14.8661	16.2936
Na 330.237	1327.04u	1755.65u	1500.13u
Ni 231.604	108.235	107.674	109.342
Pb 220.353	1426.58	1418.98	1419.26
Sb 206.834	5.0876	5.3669	2.1090
Se 196.026	-13.4695u	10.8154	7.6162
Sn 189.925	191.072	191.156	187.070
Sr 216.596	165.837	164.790	166.044
Ti 334.941	1090.86	1092.18	1096.53
Tl 190.794	3.5262u	10.6548u	6.5632u
V 292.401	274.929	275.678	275.253
Zn 206.200	3766.25	3771.40	3753.73

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.7177	ppb	0.2236	13.0	71.9859
Al 308.215	60531.1	ppb	80.9833	0.1	398961
As 188.980	158.307	ppb	2.9692	1.9	97.5162
B 249.678	29.9705	ppb	0.2744	0.9	-135.505
Ba 389.178	1513.92	ppb	1.7179	0.1	33468.7
Be 313.042	3.7429	ppb	0.0169	0.5	6759.62
Ca 370.602	26149	ppb	54.42	0.2	67764
Cd 226.502	5.9728	ppb	0.0685	1.1	1709.96
Co 228.615	47.9116	ppb	0.1184	0.2	621.351
Cr 267.716	423.929	ppb	0.9772	0.2	23178.4
Cu 324.754	852.557	ppb	5.2534	0.6	57760.1
Fe 271.441	294786	ppb	536.110	0.2	473498
K 766.491	5979.98	ppb	10.3341	0.2	240613
Mg 279.078	8920.32	ppb	7.6901	0.1	24134.1
Mn 257.610	4313.14	ppb	11.5932	0.3	903655
Mo 202.032	15.6309	ppb	0.7192	4.6	100.689
Na 330.237	1527.61	ppb	215.622	14.1	-39.8800
Ni 231.604	108.417	ppb	0.8490	0.8	364.437
Pb 220.353	1421.61	ppb	4.3069	0.3	2360.44
Sb 206.834	4.1879	ppb	1.8057	43.1	11.1549
Se 196.026	1.6541	ppb	13.1947	797.7	8.7245
Sn 189.925	189.766	ppb	2.3349	1.2	138.809
Sr 216.596	165.557	ppb	0.6726	0.4	2528.91
Ti 334.941	1093.19	ppb	2.9647	0.3	318448
Tl 190.794	6.9147	ppb	3.5773	51.7	-42.3163
V 292.401	275.287	ppb	0.3758	0.1	6903.36
Zn 206.200	3763.80	ppb	9.0882	0.2	4426.06

680-107159-a-13-a (Samp) **11/14/2014, 7:33:51 PM** **Rack 1, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	6.1262	6.4715	6.5969
Al 308.215	129100	129172	129214
As 188.980	193.292	206.120	207.924

Label	Replicates Concentration		
B 249.678	12.7902u	14.1226u	13.4992u
Ba 389.178	685.312	683.855	683.429
Be 313.042	6.3611	6.3789	6.3601
Ca 370.602	34119	34020	34085
Cd 226.502	3.5798	3.6795	4.0318
Co 228.615	83.8059	83.7051	85.2894
Cr 267.716	502.135	502.235	502.308
Cu 324.754	209.695	208.698	210.385
Fe 271.441	402822	401272	400740
K 766.491	6274.41	6259.35	6256.90
Mg 279.078	5905.80	5906.67	5923.90
Mn 257.610	2855.80	2867.03	2851.00
Mo 202.032	13.9472	12.8437	14.4611
Na 330.237	798.419u	468.992u	458.809u
Ni 231.604	65.1535	65.6669	65.1942
Pb 220.353	1748.53	1745.58	1748.94
Sb 206.834	2.6517	-0.4679	1.9520
Se 196.026	10.0882	7.0091	12.8023
Sn 189.925	69.2685	75.2015	73.6583
Sr 216.596	96.3298	95.6788	97.4762
Ti 334.941	1034.35	1033.49	1033.41
Tl 190.794	3.6330u	8.8241u	7.0325u
V 292.401	587.935	586.691	586.348
Zn 206.200	1349.76	1359.85	1359.13

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	6.3982	ppb	0.2438	3.8	426.806
Al 308.215	129162	ppb	57.9270	0.0	850780
As 188.980	202.445	ppb	7.9781	3.9	126.236
B 249.678	13.4707	ppb	0.6666	4.9	-647.924
Ba 389.178	684.199	ppb	0.9874	0.1	15313.5
Be 313.042	6.3667	ppb	0.0106	0.2	11731.3
Ca 370.602	34075	ppb	50.49	0.1	87895
Cd 226.502	3.7637	ppb	0.2375	6.3	2126.73
Co 228.615	84.2668	ppb	0.8870	1.1	1064.44
Cr 267.716	502.226	ppb	0.0867	0.0	27465.4
Cu 324.754	209.593	ppb	0.8484	0.4	14469.1
Fe 271.441	401611	ppb	1081.70	0.3	645085
K 766.491	6263.56	ppb	9.4795	0.2	252012
Mg 279.078	5912.12	ppb	10.2077	0.2	15969.7
Mn 257.610	2857.94	ppb	8.2239	0.3	599395
Mo 202.032	13.7507	ppb	0.8264	6.0	82.7762
Na 330.237	575.407	ppb	193.201	33.6	-58.3404
Ni 231.604	65.3382	ppb	0.2854	0.4	236.766
Pb 220.353	1747.68	ppb	1.8342	0.1	2900.58
Sb 206.834	1.3786	ppb	1.6370	118.7	10.1872
Se 196.026	9.9665	ppb	2.8985	29.1	13.0914
Sn 189.925	72.7094	ppb	3.0782	4.2	49.8833
Sr 216.596	96.4949	ppb	0.9100	0.9	1801.96
Ti 334.941	1033.75	ppb	0.5221	0.1	301147
Tl 190.794	6.4965	ppb	2.6367	40.6	-58.9646
V 292.401	586.992	ppb	0.8350	0.1	14832.8
Zn 206.200	1356.25	ppb	5.6297	0.4	1583.02

680-107159-a-14-a (Samp) **11/14/2014, 7:38:07 PM** **Rack 1, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.8863	1.3088	0.9748
Al 308.215	116590	116685	116466
As 188.980	125.139	130.382	123.753
B 249.678	13.0739u	13.7452u	12.9094u
Ba 389.178	861.098	862.246	861.735
Be 313.042	7.3952	7.3967	7.4030
Ca 370.602	19482	19442	19400
Cd 226.502	2.5597	2.6173	2.5936
Co 228.615	113.171	113.344	113.167
Cr 267.716	289.248	289.967	289.060
Cu 324.754	202.021	203.680	203.042
Fe 271.441	210643	210889	210723
K 766.491	4414.17	4419.38	4422.80
Mg 279.078	5910.08	5922.93	5901.04
Mn 257.610	4340.66	4325.97	4323.09
Mo 202.032	10.8168	11.3987	11.6705
Na 330.237	71.4775u	259.155u	54.3806u
Ni 231.604	67.4945	66.9796	67.6707
Pb 220.353	1147.64	1139.18	1152.24
Sb 206.834	3.1357	0.4914	0.7862
Se 196.026	-0.5970	2.8488	13.1650
Sn 189.925	51.1634	53.7744	47.8353
Sr 216.596	122.395	122.259	122.205
Ti 334.941	1083.87	1084.88	1085.96
Tl 190.794	7.6147u	2.6979u	8.4330u
V 292.401	328.013	328.378	329.052
Zn 206.200	1686.24	1689.91	1685.09

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0566	ppb	0.2228	21.1	34.5286
Al 308.215	116580	ppb	109.803	0.1	767907
As 188.980	126.425	ppb	3.4964	2.8	76.8150
B 249.678	13.2428	ppb	0.4428	3.3	-218.519
Ba 389.178	861.693	ppb	0.5750	0.1	19068.1
Be 313.042	7.3983	ppb	0.0042	0.1	13661.0
Ca 370.602	19441	ppb	41.32	0.2	50609
Cd 226.502	2.5902	ppb	0.0290	1.1	1155.43
Co 228.615	113.227	ppb	0.1008	0.1	1399.15
Cr 267.716	289.425	ppb	0.4787	0.2	15845.4
Cu 324.754	202.914	ppb	0.8368	0.4	13946.5
Fe 271.441	210752	ppb	125.591	0.1	338534
K 766.491	4418.78	ppb	4.3450	0.1	177856
Mg 279.078	5911.35	ppb	11.0021	0.2	15942.1
Mn 257.610	4329.91	ppb	9.4200	0.2	906900
Mo 202.032	11.2954	ppb	0.4361	3.9	75.4250
Na 330.237	128.338	ppb	113.613	88.5	-43.0011
Ni 231.604	67.3816	ppb	0.3591	0.5	226.425
Pb 220.353	1146.35	ppb	6.6268	0.6	1903.02
Sb 206.834	1.4711	ppb	1.4491	98.5	4.2487
Se 196.026	5.1389	ppb	7.1611	139.3	9.5528
Sn 189.925	50.9244	ppb	2.9768	5.8	33.3340
Sr 216.596	122.286	ppb	0.0978	0.1	1860.01

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	1084.90	ppb	1.0462	0.1	316022
Tl 190.794	6.2485	ppb	3.1020	49.6	-30.1630
V 292.401	328.481	ppb	0.5269	0.2	8299.16
Zn 206.200	1687.08	ppb	2.5160	0.1	1980.91

680-107159-a-15-a (Samp) **11/14/2014, 7:42:22 PM** **Rack 1, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3501u	-0.3391u	-0.5958u
Al 308.215	115040	115109	115062
As 188.980	117.325	116.289	111.764
B 249.678	15.1003u	15.1039u	15.5037u
Ba 389.178	1184.99	1184.48	1183.65
Be 313.042	6.3920	6.4001	6.3879
Ca 370.602	13120	13115	13045
Cd 226.502	0.9006	1.0245	1.1254
Co 228.615	90.8578	89.5144	89.7450
Cr 267.716	167.059	167.250	166.402
Cu 324.754	171.400	172.392	171.770
Fe 271.441	197990	197972	197455
K 766.491	4686.46	4687.70	4692.44
Mg 279.078	5094.84	5097.80	5082.78
Mn 257.610	3454.02	3469.71	3461.83
Mo 202.032	8.9982	10.1988	9.5195
Na 330.237	235.855u	117.530u	117.598u
Ni 231.604	72.5413	71.9691	72.7348
Pb 220.353	796.525	796.353	792.444
Sb 206.834	-2.2181	0.8710	-4.5851u
Se 196.026	4.5783	-0.8488	-8.0834u
Sn 189.925	47.1578	45.0857	46.8772
Sr 216.596	141.702	140.433	140.808
Ti 334.941	1062.24	1063.70	1063.46
Tl 190.794	8.7587u	5.8782u	5.5170u
V 292.401	282.923	282.097	281.628
Zn 206.200	1350.67	1353.03	1345.74

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4283	ppb	0.1452	33.9	-87.6288
Al 308.215	115070	ppb	35.2328	0.0	757961
As 188.980	115.126	ppb	2.9569	2.6	69.3679
B 249.678	15.2360	ppb	0.2319	1.5	-156.949
Ba 389.178	1184.37	ppb	0.6777	0.1	26146.7
Be 313.042	6.3933	ppb	0.0062	0.1	11761.9
Ca 370.602	13093	ppb	41.80	0.3	33699
Cd 226.502	1.0169	ppb	0.1126	11.1	1023.25
Co 228.615	90.0391	ppb	0.7184	0.8	1119.15
Cr 267.716	166.904	ppb	0.4450	0.3	9192.23
Cu 324.754	171.854	ppb	0.5013	0.3	11848.7
Fe 271.441	197806	ppb	304.173	0.2	317737
K 766.491	4688.86	ppb	3.1558	0.1	188712
Mg 279.078	5091.81	ppb	7.9580	0.2	13735.0
Mn 257.610	3461.85	ppb	7.8474	0.2	725188
Mo 202.032	9.5722	ppb	0.6020	6.3	64.5071

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	156.995	ppb	68.2953	43.5	-32.4485
Ni 231.604	72.4151	ppb	0.3982	0.5	241.365
Pb 220.353	795.107	ppb	2.3081	0.3	1326.77
Sb 206.834	-1.9774	ppb	2.7360	138.4	-2.2686
Se 196.026	-1.4513	ppb	6.3523	437.7	6.2769
Sn 189.925	46.3736	ppb	1.1242	2.4	29.8768
Sr 216.596	140.981	ppb	0.6518	0.5	2077.58
Ti 334.941	1063.14	ppb	0.7825	0.1	309679
Tl 190.794	6.7180	ppb	1.7765	26.4	-28.2935
V 292.401	282.216	ppb	0.6554	0.2	7125.88
Zn 206.200	1349.81	ppb	3.7205	0.3	1584.00

680-107159-a-16-a (Samp) **11/14/2014, 7:46:38 PM** **Rack 1, Tube 55**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1676u	-0.0209u	-0.2542u
Al 308.215	86740.6	86551.3	86478.6
As 188.980	85.4869	86.8623	85.4383
B 249.678	10.3776u	9.8448u	9.6144u
Ba 389.178	861.778	862.502	859.203
Be 313.042	3.8332	3.8314	3.8253
Ca 370.602	11169	11218	11222
Cd 226.502	0.4757	0.0056	-0.0584
Co 228.615	40.6596	40.0688	40.3869
Cr 267.716	149.784	149.961	149.817
Cu 324.754	95.6378	96.2531	96.4186
Fe 271.441	149967	149888	149825
K 766.491	3005.14	2999.00	3000.68
Mg 279.078	3772.26	3789.67	3786.31
Mn 257.610	2068.49	2061.73	2056.75
Mo 202.032	7.8146	6.9751	7.7406
Na 330.237	129.990u	81.1467u	41.1104u
Ni 231.604	43.1934	42.6669	43.6189
Pb 220.353	600.593	600.309	597.377
Sb 206.834	4.3347	2.5755	-3.4843u
Se 196.026	1.1982	0.1616	11.0067
Sn 189.925	31.9636	38.1252	31.8542
Sr 216.596	119.273	119.577	118.825
Ti 334.941	877.892	875.424	874.783
Tl 190.794	7.6013u	8.4851u	8.3140u
V 292.401	229.262	231.057	230.974
Zn 206.200	977.804	981.722	976.773

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1476	ppb	0.1179	79.9	-63.6737
Al 308.215	86590.2	ppb	135.296	0.2	570476
As 188.980	85.9292	ppb	0.8085	0.9	50.2193
B 249.678	9.9456	ppb	0.3915	3.9	-134.957
Ba 389.178	861.161	ppb	1.7340	0.2	19005.9
Be 313.042	3.8300	ppb	0.0042	0.1	6924.74
Ca 370.602	11203	ppb	29.63	0.3	28990
Cd 226.502	0.1409	ppb	0.2917	206.9	754.699
Co 228.615	40.3717	ppb	0.2957	0.7	515.476

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	149.854	ppb	0.0939	0.1	8237.91
Cu 324.754	96.1032	ppb	0.4114	0.4	6725.50
Fe 271.441	149893	ppb	70.9650	0.0	240775
K 766.491	3001.61	ppb	3.1727	0.1	120888
Mg 279.078	3782.75	ppb	9.2350	0.2	10219.9
Mn 257.610	2062.33	ppb	5.8939	0.3	432145
Mo 202.032	7.5101	ppb	0.4648	6.2	52.9384
Na 330.237	84.0822	ppb	44.5122	52.9	-18.2004
Ni 231.604	43.1597	ppb	0.4769	1.1	144.241
Pb 220.353	599.426	ppb	1.7807	0.3	1003.27
Sb 206.834	1.1420	ppb	4.1019	359.2	1.0158
Se 196.026	4.1222	ppb	5.9847	145.2	8.0477
Sn 189.925	33.9810	ppb	3.5894	10.6	20.4626
Sr 216.596	119.225	ppb	0.3782	0.3	1734.44
Ti 334.941	876.033	ppb	1.6416	0.2	255176
Tl 190.794	8.1335	ppb	0.4687	5.8	-20.5315
V 292.401	230.431	ppb	1.0134	0.4	5818.40
Zn 206.200	978.766	ppb	2.6114	0.3	1148.37

680-107159-a-17-a (Samp) **11/14/2014, 7:50:54 PM** **Rack 1, Tube 56**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	2.3666	2.4860	1.8813
Al 308.215	102975	102845	103022
As 188.980	112.093	104.547	108.550
B 249.678	11.9795u	12.5957u	11.7530u
Ba 389.178	1629.04	1626.05	1627.91
Be 313.042	5.9232	5.9199	5.9359
Ca 370.602	35699	35623	35569
Cd 226.502	4.3739	4.1232	4.3949
Co 228.615	79.6443	78.7930	79.5159
Cr 267.716	206.001	206.020	205.615
Cu 324.754	170.006	167.263	169.148
Fe 271.441	181922	181593	181847
K 766.491	4002.36	4001.68	4005.55
Mg 279.078	6182.16	6174.44	6178.55
Mn 257.610	3076.13	3073.55	3078.51
Mo 202.032	8.5919	8.4097	8.9492
Na 330.237	195.175u	275.126u	168.414u
Ni 231.604	59.1696	57.6500	59.5272
Pb 220.353	974.750	965.229	965.550
Sb 206.834	4.0220	2.0479	3.7762
Se 196.026	0.5219	1.5204	-9.1499u
Sn 189.925	59.5343	59.4378	63.1079
Sr 216.596	348.660	346.549	346.293
Ti 334.941	937.226	936.416	937.752
Tl 190.794	5.3643u	6.8575u	4.8848u
V 292.401	262.272	261.282	261.469
Zn 206.200	1400.34	1394.29	1405.24

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.2446	ppb	0.3203	14.3	121.099
Al 308.215	102947	ppb	91.5949	0.1	678154

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	108.397	ppb	3.7751	3.5	64.9883
B 249.678	12.1094	ppb	0.4361	3.6	-171.316
Ba 389.178	1627.67	ppb	1.5087	0.1	35877.0
Be 313.042	5.9263	ppb	0.0085	0.1	10887.8
Ca 370.602	35630	ppb	65.34	0.2	94167
Cd 226.502	4.2973	ppb	0.1512	3.5	1092.80
Co 228.615	79.3177	ppb	0.4589	0.6	986.631
Cr 267.716	205.879	ppb	0.2283	0.1	11295.7
Cu 324.754	168.806	ppb	1.4029	0.8	11637.1
Fe 271.441	181787	ppb	172.853	0.1	292007
K 766.491	4003.20	ppb	2.0640	0.1	161150
Mg 279.078	6178.38	ppb	3.8660	0.1	16698.0
Mn 257.610	3076.06	ppb	2.4802	0.1	644411
Mo 202.032	8.6503	ppb	0.2745	3.2	59.0910
Na 330.237	212.905	ppb	55.5217	26.1	-27.4924
Ni 231.604	58.7823	ppb	0.9967	1.7	196.613
Pb 220.353	968.510	ppb	5.4065	0.6	1609.77
Sb 206.834	3.2820	ppb	1.0758	32.8	5.2366
Se 196.026	-2.3692	ppb	5.8934	248.8	5.6340
Sn 189.925	60.6933	ppb	2.0916	3.4	40.7553
Sr 216.596	347.167	ppb	1.2990	0.4	4691.28
Ti 334.941	937.131	ppb	0.6726	0.1	272980
Tl 190.794	5.7022	ppb	1.0289	18.0	-27.1862
V 292.401	261.674	ppb	0.5260	0.2	6604.02
Zn 206.200	1399.96	ppb	5.4827	0.4	1643.66

CRI (Samp) **11/14/2014, 7:55:10 PM** **Rack 1, Tube 57**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.0970	11.0028	10.2670
Al 308.215	208.666	208.520	209.518
As 188.980	19.9273	17.4832	24.2948
B 249.678	99.8827	100.916	100.667
Ba 389.178	10.1502	10.2553	9.6322
Be 313.042	4.1880	4.2162	4.1793
Ca 370.602	520.0	520.2	511.4
Cd 226.502	4.7439	5.0116	4.8580
Co 228.615	10.3860	9.8609	9.7294
Cr 267.716	10.2144	10.4929	10.2601
Cu 324.754	21.3156	20.7439	20.9882
Fe 271.441	69.7376	65.9275	74.6685
K 766.491	1021.25	1024.91	1019.37
Mg 279.078	507.018	508.506	504.690
Mn 257.610	11.0631	11.0223	11.0956
Mo 202.032	9.0528	8.9551	9.2566
Na 330.237	1095.35	1009.67	1001.39
Ni 231.604	40.8216	40.5711	40.4633
Pb 220.353	10.6026	12.3574	10.8359
Sb 206.834	19.9819	17.2224	20.3190
Se 196.026	13.3731	22.4961	22.2958
Sn 189.925	48.6587	48.0232	49.3872
Sr 216.596	9.8601	9.4528	9.8629
Ti 334.941	10.2490	10.2894	10.2136

Label	Replicates Concentration		
Tl 190.794	26.0123	23.7001	23.2931
V 292.401	10.7884	10.6863	10.9825
Zn 206.200	20.7921	20.2373	22.4712

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.4556	ppb	0.4815	4.6	805.790
Al 308.215	208.901	ppb	0.5387	0.3	1820.05
As 188.980	20.5684	ppb	3.4508	16.8	7.6311
B 249.678	100.489	ppb	0.5392	0.5	1682.28
Ba 389.178	10.0126	ppb	0.3336	3.3	183.458
Be 313.042	4.1945	ppb	0.0193	0.5	7592.60
Ca 370.602	517.2	ppb	5.014	1.0	1412
Cd 226.502	4.8712	ppb	0.1343	2.8	248.478
Co 228.615	9.9921	ppb	0.3474	3.5	120.510
Cr 267.716	10.3225	ppb	0.1493	1.4	590.141
Cu 324.754	21.0159	ppb	0.2868	1.4	1608.83
Fe 271.441	70.1112	ppb	4.3824	6.3	128.577
K 766.491	1021.84	ppb	2.8216	0.3	41304.9
Mg 279.078	506.738	ppb	1.9234	0.4	1398.71
Mn 257.610	11.0604	ppb	0.0368	0.3	2395.29
Mo 202.032	9.0882	ppb	0.1538	1.7	70.6866
Na 330.237	1035.47	ppb	52.0261	5.0	74.4059
Ni 231.604	40.6187	ppb	0.1838	0.5	123.074
Pb 220.353	11.2653	ppb	0.9530	8.5	31.0207
Sb 206.834	19.1744	ppb	1.6989	8.9	21.5268
Se 196.026	19.3883	ppb	5.2103	26.9	13.1331
Sn 189.925	48.6897	ppb	0.6825	1.4	31.6371
Sr 216.596	9.7253	ppb	0.2360	2.4	127.820
Ti 334.941	10.2507	ppb	0.0379	0.4	2991.14
Tl 190.794	24.3352	ppb	1.4667	6.0	17.5033
V 292.401	10.8191	ppb	0.1504	1.4	255.034
Zn 206.200	21.1669	ppb	1.1632	5.5	25.3053

Cont Calib Verif (CCV) **11/14/2014, 7:59:27 PM** **Rack 2, Tube 1**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	493.300	490.485	489.627
Al 308.215	4867.61	4839.98	4837.36
As 188.980	457.259	462.547	464.901
B 249.678	494.098	494.877	496.877
Ba 389.178	4759.10	4732.35	4739.43
Be 313.042	504.518	501.083	499.058
Ca 370.602	4736	4720	4717
Cd 226.502	490.599	489.025	488.573
Co 228.615	497.655	494.460	494.749
Cr 267.716	5054.65	5027.68	5032.98
Cu 324.754	4990.49	5015.20	4955.37
Fe 271.441	4928.46	4904.57	4912.58
K 766.491	10138.7	10086.6	10108.0
Mg 279.078	4907.97	4879.97	4873.86
Mn 257.610	5013.45	4982.28	4975.65
Mo 202.032	479.854	479.714	479.770
Na 330.237	7851.98	7518.36	7427.33

Label	Replicates Concentration		
Ni 231.604	2448.90	2460.62	2447.05
Pb 220.353	479.517	478.336	478.922
Sb 206.834	910.322	908.633	906.062
Se 196.026	4984.65	4930.27	4931.93
Sn 189.925	4807.42	4800.42	4806.16
Sr 216.596	2453.23	2443.72	2438.93
Ti 334.941	483.729	481.638	482.145
Tl 190.794	4906.71	4883.91	4868.13
V 292.401	4862.55	4842.98	4846.48
Zn 206.200	2516.45	2498.44	2499.00

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	491.137	ppb	1.9211	0.4	39399.4	98.22749
Al 308.215	4848.32	ppb	16.7558	0.3	32991.5	96.96634
As 188.980	461.569	ppb	3.9139	0.8	301.441	92.31384
B 249.678	495.284	ppb	1.4335	0.3	8127.85	99.05672
Ba 389.178	4743.63	ppb	13.8585	0.3	104218	94.87252
Be 313.042	501.553	ppb	2.7603	0.6	945563	100.31065
Ca 370.602	4724	ppb	9.808	0.2	12988	94.48908
Cd 226.502	489.399	ppb	1.0635	0.2	21963.8	97.87975
Co 228.615	495.621	ppb	1.7671	0.4	5955.84	99.12420
Cr 267.716	5038.44	ppb	14.2897	0.3	273191	100.76880
Cu 324.754	4987.02	ppb	30.0649	0.6	336222	99.74033
Fe 271.441	4915.20	ppb	12.1602	0.2	8009.17	98.30407
K 766.491	10111.1	ppb	26.1586	0.3	406677	101.11105
Mg 279.078	4887.27	ppb	18.1896	0.4	13189.5	97.74532
Mn 257.610	4990.46	ppb	20.1855	0.4	1044542	99.80923
Mo 202.032	479.779	ppb	0.0707	0.0	3223.23	95.95586
Na 330.237	7599.23	ppb	223.575	2.9	313.515	101.32301
Ni 231.604	2452.19	ppb	7.3587	0.3	7792.40	98.08765
Pb 220.353	478.925	ppb	0.5904	0.1	801.208	95.78502
Sb 206.834	908.339	ppb	2.1455	0.2	1309.75	90.83391
Se 196.026	4948.95	ppb	30.9281	0.6	2234.06	98.97906
Sn 189.925	4804.66	ppb	3.7313	0.1	3644.65	96.09329
Sr 216.596	2445.29	ppb	7.2783	0.3	31084.0	97.81173
Ti 334.941	482.504	ppb	1.0910	0.2	140542	96.50081
Tl 190.794	4886.25	ppb	19.3956	0.4	5134.48	97.72492
V 292.401	4850.67	ppb	10.4345	0.2	123723	97.01338
Zn 206.200	2504.63	ppb	10.2434	0.4	2942.32	100.18508

Cont Calib Blank (CCB) **11/14/2014, 8:03:42 PM** **Rack 2, Tube 2**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3157	0.1084	0.1747
Al 308.215	1.3764	1.0691	1.1246
As 188.980	-0.8805u	0.1929	3.0489
B 249.678	8.7486	8.1355	7.1777
Ba 389.178	0.7387	-0.2130u	-0.3314u
Be 313.042	0.0299	0.0260	0.0224
Ca 370.602	1.063	-2.068u	3.455
Cd 226.502	0.0136	0.1032	0.0606
Co 228.615	-0.2428u	-0.5499u	-0.1945u
Cr 267.716	0.2761	0.3017	0.3787

Label	Replicates Concentration		
Cu 324.754	0.2908	0.7196	0.6621
Fe 271.441	4.0450	2.3817	0.8197
K 766.491	1.7735	1.0085	0.8541
Mg 279.078	2.9332	3.5125	2.3692
Mn 257.610	0.3364	0.3577	0.2699
Mo 202.032	-0.2461u	0.4379	0.2286
Na 330.237	-73.4461u	2.1893	74.9183
Ni 231.604	0.8276	0.6411	1.2129
Pb 220.353	-2.5198u	0.5275	-0.4976u
Sb 206.834	2.7256	4.4037	1.9011
Se 196.026	4.2817	2.4755	3.3443
Sn 189.925	-0.6969u	2.5563	1.1266
Sr 216.596	0.2755	-0.1472u	0.0993
Ti 334.941	0.1389	0.1306	0.1036
Tl 190.794	2.5591	3.5899	1.5306
V 292.401	0.3509	0.9837	0.4321
Zn 206.200	0.3232	1.2887	0.8904

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1996	ppb	0.1059	53.0	-18.3465	0.19962
Al 308.215	1.1900	ppb	0.1638	13.8	451.316	1.19003
As 188.980	0.7871	ppb	2.0310	258.0	-5.5524	0.78708
B 249.678	8.0206	ppb	0.7918	9.9	173.011	8.02060
Ba 389.178	0.0648	ppb	0.5866	906.0	-36.2672	0.06475
Be 313.042	0.0261	ppb	0.0038	14.5	-266.187	0.02611
Ca 370.602	0.8169	ppb	2.770	339.1	24.87	0.81686
Cd 226.502	0.0591	ppb	0.0448	75.9	32.7388	0.05912
Co 228.615	-0.3291	ppb	0.1927	58.6	-3.3446	-0.32909
Cr 267.716	0.3188	ppb	0.0534	16.8	47.7697	0.31884
Cu 324.754	0.5575	ppb	0.2327	41.7	229.914	0.55751
Fe 271.441	2.4155	ppb	1.6129	66.8	18.5475	2.41549
K 766.491	1.2121	ppb	0.4924	40.6	277.352	1.21206
Mg 279.078	2.9383	ppb	0.5717	19.5	30.9640	2.93831
Mn 257.610	0.3213	ppb	0.0458	14.3	143.865	0.32134
Mo 202.032	0.1401	ppb	0.3505	250.1	10.6672	0.14014
Na 330.237	1.2205	ppb	74.1870	6078.4	29.4700	1.22050
Ni 231.604	0.8939	ppb	0.2916	32.6	-3.2524	0.89386
Pb 220.353	-0.8300	ppb	1.5506	186.8	11.2272	-0.83000
Sb 206.834	3.0101	ppb	1.2753	42.4	-0.8495	3.01013
Se 196.026	3.3671	ppb	0.9033	26.8	5.9159	3.36715
Sn 189.925	0.9954	ppb	1.6305	163.8	-4.5956	0.99536
Sr 216.596	0.0759	ppb	0.2123	279.8	5.9028	0.07587
Ti 334.941	0.1244	ppb	0.0185	14.8	41.0419	0.12438
Tl 190.794	2.5598	ppb	1.0296	40.2	-5.3833	2.55984
V 292.401	0.5889	ppb	0.3443	58.5	-4.4966	0.58890
Zn 206.200	0.8341	ppb	0.4852	58.2	1.3554	0.83412

mb 680-358718/1-a (Samp) **11/14/2014, 8:07:58 PM** **Rack 2, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1067	0.1681	0.1514
Al 308.215	0.5490	0.8879	-9.2162u
As 188.980	1.2263	-1.7010u	3.8382

Label	Replicates Concentration		
B 249.678	3.5529	2.8690	2.1595
Ba 389.178	-0.0143u	-0.1469u	-0.0590u
Be 313.042	0.0051	0.0051	0.0276
Ca 370.602	4.189	-3.169u	-2.277u
Cd 226.502	0.0430	0.1168	-0.1437u
Co 228.615	-0.3570u	0.1501	-0.3842u
Cr 267.716	0.2583	0.3038	0.0558
Cu 324.754	-0.2589u	0.1297	-0.4541u
Fe 271.441	-0.4467u	-2.8364u	-0.8870u
K 766.491	0.5701	0.3567	-0.0945u
Mg 279.078	3.4809	0.9426	0.1666
Mn 257.610	0.1159	0.0728	0.0047
Mo 202.032	-0.3717u	-0.7977u	-0.7938u
Na 330.237	171.432	11.1458	-75.2346u
Ni 231.604	0.4225	-0.0221u	0.4876
Pb 220.353	1.3375	1.2654	-1.8403u
Sb 206.834	-0.6681u	1.3572	-2.2165u
Se 196.026	-2.8455u	4.7051	-1.5287u
Sn 189.925	-0.2027u	-1.8793u	-0.0590u
Sr 216.596	0.3013	0.4415	-0.0919u
Ti 334.941	-0.0782u	-0.1317u	-0.0598u
Tl 190.794	0.3915	1.2675	1.0782
V 292.401	0.3955	0.5033	0.5476
Zn 206.200	2.1803	3.4615	2.8525

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1421	ppb	0.0317	22.3	-22.9724
Al 308.215	-2.5931	ppb	5.7383	221.3	426.363
As 188.980	1.1212	ppb	2.7711	247.2	-5.3295
B 249.678	2.8605	ppb	0.6967	24.4	88.7457
Ba 389.178	-0.0734	ppb	0.0675	91.9	-39.3142
Be 313.042	0.0126	ppb	0.0130	103.1	-291.524
Ca 370.602	-0.4188	ppb	4.016	958.9	21.53
Cd 226.502	0.0054	ppb	0.1342	2488.7	30.3104
Co 228.615	-0.1970	ppb	0.3009	152.8	-1.7429
Cr 267.716	0.2060	ppb	0.1320	64.1	41.6448
Cu 324.754	-0.1945	ppb	0.2972	152.8	179.214
Fe 271.441	-1.3900	ppb	1.2718	91.5	12.4493
K 766.491	0.2774	ppb	0.3393	122.3	239.781
Mg 279.078	1.5300	ppb	1.7335	113.3	27.1471
Mn 257.610	0.0645	ppb	0.0561	87.0	90.0751
Mo 202.032	-0.6544	ppb	0.2448	37.4	5.3369
Na 330.237	35.7811	ppb	125.165	349.8	30.9526
Ni 231.604	0.2960	ppb	0.2774	93.7	-5.1547
Pb 220.353	0.2542	ppb	1.8143	713.7	13.0031
Sb 206.834	-0.5091	ppb	1.7921	352.0	-5.7133
Se 196.026	0.1103	ppb	4.0333	3657.3	4.4492
Sn 189.925	-0.7137	ppb	1.0120	141.8	-5.8939
Sr 216.596	0.2170	ppb	0.2765	127.4	7.7036
Ti 334.941	-0.0899	ppb	0.0374	41.6	-21.3495
Tl 190.794	0.9124	ppb	0.4609	50.5	-7.1112
V 292.401	0.4821	ppb	0.0782	16.2	-7.0869
Zn 206.200	2.8314	ppb	0.6409	22.6	3.7109

lcs 680-358718/2-a (Samp) **11/14/2014, 8:12:14 PM** **Rack 2, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.8070	51.4469	51.3294
Al 308.215	4938.32	4965.73	4960.34
As 188.980	94.7863	101.337	95.9832
B 249.678	200.695	202.643	203.155
Ba 389.178	95.3434	96.4841	95.6546
Be 313.042	52.2380	52.3998	52.4470
Ca 370.602	4761	4765	4781
Cd 226.502	50.0461	50.0019	50.1793
Co 228.615	50.4479	49.7273	49.6324
Cr 267.716	103.897	104.041	104.158
Cu 324.754	103.476	103.411	103.036
Fe 271.441	4994.21	4986.57	4998.15
K 766.491	5040.79	5079.22	5070.97
Mg 279.078	4953.07	4966.50	4960.35
Mn 257.610	517.021	518.914	518.334
Mo 202.032	97.6535	97.0837	99.1607
Na 330.237	5294.13	4828.85	4958.16
Ni 231.604	99.9370	100.907	98.2958
Pb 220.353	483.271	487.740	482.705
Sb 206.834	46.7222	50.0971	48.0885
Se 196.026	107.439	95.6450	104.349
Sn 189.925	194.457	192.750	191.272
Sr 216.596	98.3459	98.1205	98.4749
Ti 334.941	98.6057	99.4995	99.5765
Tl 190.794	36.6149	36.1914	42.1268
V 292.401	100.168	100.598	100.517
Zn 206.200	105.841	104.724	104.459

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.1944	ppb	0.3406	0.7	4079.36
Al 308.215	4954.80	ppb	14.5217	0.3	33074.2
As 188.980	97.3690	ppb	3.4885	3.6	58.7695
B 249.678	202.164	ppb	1.2978	0.6	3331.04
Ba 389.178	95.8274	ppb	0.5896	0.6	2082.49
Be 313.042	52.3616	ppb	0.1096	0.2	98404.2
Ca 370.602	4769	ppb	10.96	0.2	12804
Cd 226.502	50.0757	ppb	0.0923	0.2	2295.89
Co 228.615	49.9359	ppb	0.4460	0.9	599.882
Cr 267.716	104.032	ppb	0.1305	0.1	5674.87
Cu 324.754	103.308	ppb	0.2378	0.2	7158.52
Fe 271.441	4992.98	ppb	5.8889	0.1	8041.01
K 766.491	5063.66	ppb	20.2331	0.4	203778
Mg 279.078	4959.97	ppb	6.7260	0.1	13479.0
Mn 257.610	518.090	ppb	0.9697	0.2	108555
Mo 202.032	97.9660	ppb	1.0732	1.1	666.652
Na 330.237	5027.04	ppb	240.169	4.8	246.784
Ni 231.604	99.7132	ppb	1.3199	1.3	311.360
Pb 220.353	484.572	ppb	2.7584	0.6	806.247
Sb 206.834	48.3026	ppb	1.6976	3.5	61.7057
Se 196.026	102.478	ppb	6.1157	6.0	50.7055
Sn 189.925	192.826	ppb	1.5936	0.8	141.136
Sr 216.596	98.3138	ppb	0.1794	0.2	1261.98

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	99.2272	ppb	0.5396	0.5	28913.8
Tl 190.794	38.3111	ppb	3.3113	8.6	31.6482
V 292.401	100.428	ppb	0.2284	0.2	2524.63
Zn 206.200	105.008	ppb	0.7336	0.7	123.767

680-107223-b-5-a (Samp) **11/14/2014, 8:16:29 PM** **Rack 2, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2190	-0.0237u	0.2139
Al 308.215	119.625	120.254	115.531
As 188.980	-0.9231u	-3.4136u	1.0659
B 249.678	17.4746	17.1943	16.9028
Ba 389.178	77.3022	77.4913	77.2846
Be 313.042	0.0704	0.0719	0.0755
Ca 370.602	951.6	937.6	938.6
Cd 226.502	-0.1039u	0.0452	0.0479
Co 228.615	1.5270	1.1208	1.0358
Cr 267.716	0.1376	0.0857	0.2210
Cu 324.754	40.5569	40.3608	40.1344
Fe 271.441	31.1775	35.5771	34.8982
K 766.491	785.734	782.941	782.347
Mg 279.078	1051.01	1041.38	1043.40
Mn 257.610	26.1877	26.0863	26.0479
Mo 202.032	-0.5442u	-0.3831u	0.1480
Na 330.237	6059.94	6232.89	6431.04
Ni 231.604	1.6990	1.8763	2.1898
Pb 220.353	2.0236	1.5681	2.1344
Sb 206.834	-1.6203u	0.7554	-2.9782u
Se 196.026	6.8041	5.3718	-0.3468u
Sn 189.925	-2.0571u	-0.6291u	-1.3272u
Sr 216.596	11.4696	11.3484	11.4401
Ti 334.941	-0.0647u	-0.0414u	-0.0417u
Tl 190.794	-0.1921u	1.0202	-1.5685u
V 292.401	0.4536	0.1757	0.0799
Zn 206.200	33.1735	34.3959	32.7478

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1364	ppb	0.1387	101.7	-23.6857
Al 308.215	118.470	ppb	2.5644	2.2	1223.25
As 188.980	-1.0902	ppb	2.2445	205.9	-6.8039
B 249.678	17.1906	ppb	0.2859	1.7	322.545
Ba 389.178	77.3594	ppb	0.1146	0.1	1664.25
Be 313.042	0.0726	ppb	0.0026	3.6	-178.951
Ca 370.602	942.6	ppb	7.813	0.8	2548
Cd 226.502	-0.0036	ppb	0.0869	2432.9	30.0351
Co 228.615	1.2278	ppb	0.2626	21.4	15.3527
Cr 267.716	0.1481	ppb	0.0683	46.1	38.7761
Cu 324.754	40.3507	ppb	0.2114	0.5	2911.58
Fe 271.441	33.8843	ppb	2.3686	7.0	69.2670
K 766.491	783.674	ppb	1.8087	0.2	31730.9
Mg 279.078	1045.26	ppb	5.0760	0.5	2860.77
Mn 257.610	26.1073	ppb	0.0722	0.3	5548.20
Mo 202.032	-0.2598	ppb	0.3622	139.4	7.9835

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	6241.29	ppb	185.695	3.0	302.482
Ni 231.604	1.9217	ppb	0.2486	12.9	0.0151
Pb 220.353	1.9087	ppb	0.3001	15.7	15.7169
Sb 206.834	-1.2810	ppb	1.8898	147.5	-6.7894
Se 196.026	3.9430	ppb	3.7835	96.0	6.1812
Sn 189.925	-1.3378	ppb	0.7141	53.4	-6.3661
Sr 216.596	11.4194	ppb	0.0632	0.6	150.778
Ti 334.941	-0.0492	ppb	0.0134	27.2	-8.1541
Tl 190.794	-0.2468	ppb	1.2952	524.8	-8.3190
V 292.401	0.2364	ppb	0.1941	82.1	-13.4929
Zn 206.200	33.4391	ppb	0.8556	2.6	39.7993

680-107223-b-5-aSD^5 (Samp) **11/14/2014, 8:20:46 PM** **Rack 2, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0048u	0.3933	0.3106
Al 308.215	27.5412	25.9743	24.6651
As 188.980	-5.1210u	-0.2231u	1.6993
B 249.678	4.7750	4.7059	4.1120
Ba 389.178	17.4525	16.7378	17.1236
Be 313.042	0.0215	0.0135	0.0157
Ca 370.602	210.2	206.0	203.8
Cd 226.502	-0.1685u	0.0893	-0.0819u
Co 228.615	0.1085	-0.1512u	0.1817
Cr 267.716	-0.0181u	0.0861	0.1683
Cu 324.754	8.7930	8.5749	8.8129
Fe 271.441	8.3215	12.4172	4.9408
K 766.491	176.742	172.063	169.266
Mg 279.078	236.215	227.725	227.330
Mn 257.610	5.9122	5.7461	5.6909
Mo 202.032	-0.4450u	0.2782	0.1265
Na 330.237	1029.35	1302.40	1274.54
Ni 231.604	0.4832	0.9836	1.5540
Pb 220.353	2.2690	1.7815	1.8416
Sb 206.834	-1.0330u	-0.4793u	3.3197
Se 196.026	1.2592	3.1835	3.0062
Sn 189.925	3.3588	-0.5684u	0.8345
Sr 216.596	2.3234	2.6296	2.2800
Ti 334.941	-0.0140u	-0.0132u	-0.0396u
Tl 190.794	-3.1795u	-0.1053u	0.7668
V 292.401	0.1969	0.4844	0.4987
Zn 206.200	7.8949	7.7446	8.5335

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2330	ppb	0.2101	90.2	-15.7116
Al 308.215	26.0602	ppb	1.4400	5.5	614.991
As 188.980	-1.2149	ppb	3.5166	289.5	-6.8869
B 249.678	4.5310	ppb	0.3645	8.0	115.993
Ba 389.178	17.1046	ppb	0.3577	2.1	338.608
Be 313.042	0.0169	ppb	0.0041	24.4	-283.696
Ca 370.602	206.7	ppb	3.236	1.6	576.3
Cd 226.502	-0.0537	ppb	0.1312	244.3	27.7022
Co 228.615	0.0463	ppb	0.1750	377.6	1.1611

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.0788	ppb	0.0934	118.6	34.8072
Cu 324.754	8.7269	ppb	0.1321	1.5	780.452
Fe 271.441	8.5598	ppb	3.7439	43.7	28.4481
K 766.491	172.690	ppb	3.7773	2.2	7170.47
Mg 279.078	230.423	ppb	5.0199	2.2	648.567
Mn 257.610	5.7831	ppb	0.1152	2.0	1288.60
Mo 202.032	-0.0134	ppb	0.3814	2841.1	9.6370
Na 330.237	1202.10	ppb	150.248	12.5	81.9883
Ni 231.604	1.0069	ppb	0.5358	53.2	-2.8932
Pb 220.353	1.9640	ppb	0.2658	13.5	15.8030
Sb 206.834	0.6025	ppb	2.3694	393.3	-4.1850
Se 196.026	2.4830	ppb	1.0635	42.8	5.5190
Sn 189.925	1.2083	ppb	1.9901	164.7	-4.4334
Sr 216.596	2.4110	ppb	0.1905	7.9	35.7147
Ti 334.941	-0.0223	ppb	0.0150	67.5	-1.3586
Tl 190.794	-0.8393	ppb	2.0730	247.0	-8.9517
V 292.401	0.3933	ppb	0.1703	43.3	-9.4789
Zn 206.200	8.0577	ppb	0.4189	5.2	9.8730

680-107223-b-5-aPDS (Samp) **11/14/2014, 8:25:01 PM** **Rack 2, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	103.165	103.168	103.200
Al 308.215	1120.12	1122.66	1118.57
As 188.980	106.647	104.539	103.598
B 249.678	216.211	216.299	217.019
Ba 389.178	161.752	161.961	161.887
Be 313.042	104.821	104.928	104.898
Ca 370.602	10669	10675	10698
Cd 226.502	99.1064	99.2800	98.7963
Co 228.615	102.793	103.426	102.780
Cr 267.716	104.877	105.032	105.280
Cu 324.754	142.212	141.403	142.582
Fe 271.441	10127.4	10120.4	10158.2
K 766.491	11159.8	11191.0	11192.0
Mg 279.078	11084.4	11066.2	11078.9
Mn 257.610	1078.71	1076.17	1076.61
Mo 202.032	98.1866	96.6685	97.8089
Na 330.237	15491.4	15173.4	15350.3
Ni 231.604	100.633	102.469	100.289
Pb 220.353	96.9530	99.6009	101.136
Sb 206.834	91.5603	89.1438	96.9308
Se 196.026	103.088	102.693	98.2304
Sn 189.925	103.344	96.9612	93.7427
Sr 216.596	110.054	109.702	109.012
Ti 334.941	100.041	100.102	100.120
Tl 190.794	17.2470	16.8138	20.9514
V 292.401	101.061	101.537	101.645
Zn 206.200	134.891	134.877	135.847

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	103.177	ppb	0.0195	0.0	8259.20
Al 308.215	1120.45	ppb	2.0644	0.2	7834.51

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	104.928	ppb	1.5614	1.5	63.7749
B 249.678	216.510	ppb	0.4434	0.2	3554.19
Ba 389.178	161.867	ppb	0.1062	0.1	3549.96
Be 313.042	104.883	ppb	0.0554	0.1	197433
Ca 370.602	10681	ppb	15.21	0.1	28604
Cd 226.502	99.0609	ppb	0.2450	0.2	4513.65
Co 228.615	103.000	ppb	0.3690	0.4	1237.31
Cr 267.716	105.063	ppb	0.2032	0.2	5735.60
Cu 324.754	142.066	ppb	0.6026	0.4	9772.44
Fe 271.441	10135.4	ppb	20.1160	0.2	16306.7
K 766.491	11180.9	ppb	18.2788	0.2	449682
Mg 279.078	11076.5	ppb	9.3331	0.1	30078.1
Mn 257.610	1077.16	ppb	1.3591	0.1	225619
Mo 202.032	97.5547	ppb	0.7904	0.8	663.655
Na 330.237	15338.4	ppb	159.330	1.0	697.297
Ni 231.604	101.130	ppb	1.1719	1.2	316.180
Pb 220.353	99.2301	ppb	2.1162	2.1	175.823
Sb 206.834	92.5449	ppb	3.9858	4.3	123.124
Se 196.026	101.337	ppb	2.6978	2.7	50.3632
Sn 189.925	98.0160	ppb	4.8868	5.0	69.1139
Sr 216.596	109.589	ppb	0.5303	0.5	1415.12
Ti 334.941	100.087	ppb	0.0415	0.0	29174.7
Tl 190.794	18.3374	ppb	2.2741	12.4	10.3099
V 292.401	101.414	ppb	0.3103	0.3	2548.07
Zn 206.200	135.205	ppb	0.5559	0.4	159.173

680-107223-a-5-a ms (Samp) **11/14/2014, 8:29:18 PM** **Rack 2, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	48.5651	48.6566	48.4249
Al 308.215	5145.23	5138.40	5124.88
As 188.980	102.652	107.033	104.679
B 249.678	219.292	219.776	220.370
Ba 389.178	173.983	174.714	173.669
Be 313.042	53.3467	53.2898	53.0783
Ca 370.602	5738	5728	5751
Cd 226.502	50.4561	50.7756	50.5237
Co 228.615	52.0717	52.0563	52.2267
Cr 267.716	104.615	105.165	104.921
Cu 324.754	142.841	143.191	141.608
Fe 271.441	5075.32	5078.72	5068.31
K 766.491	5949.97	5929.15	5918.13
Mg 279.078	6075.19	6065.11	6056.40
Mn 257.610	549.783	551.122	548.240
Mo 202.032	97.8072	97.9138	97.4675
Na 330.237	11567.3	11554.4	11211.8
Ni 231.604	100.150	99.8146	101.602
Pb 220.353	489.027	489.840	490.157
Sb 206.834	53.0277	49.1813	46.1690
Se 196.026	101.819	109.169	104.321
Sn 189.925	189.915	196.797	196.262
Sr 216.596	110.692	110.569	110.400
Ti 334.941	100.503	100.272	100.004

Label	Replicates Concentration		
Tl 190.794	38.5445	41.0612	39.5482
V 292.401	101.248	100.951	101.276
Zn 206.200	138.914	139.382	139.760

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.5488	ppb	0.1167	0.2	3866.43
Al 308.215	5136.17	ppb	10.3547	0.2	34268.1
As 188.980	104.788	ppb	2.1926	2.1	63.7145
B 249.678	219.813	ppb	0.5397	0.2	3618.94
Ba 389.178	174.122	ppb	0.5358	0.3	3805.17
Be 313.042	53.2383	ppb	0.1414	0.3	100057
Ca 370.602	5739	ppb	11.44	0.2	15403
Cd 226.502	50.5851	ppb	0.1684	0.3	2319.06
Co 228.615	52.1183	ppb	0.0942	0.2	626.114
Cr 267.716	104.900	ppb	0.2760	0.3	5722.27
Cu 324.754	142.546	ppb	0.8316	0.6	9802.84
Fe 271.441	5074.12	ppb	5.3083	0.1	8171.59
K 766.491	5932.42	ppb	16.1672	0.3	238701
Mg 279.078	6065.57	ppb	9.4035	0.2	16480.5
Mn 257.610	549.715	ppb	1.4422	0.3	115182
Mo 202.032	97.7295	ppb	0.2331	0.2	665.062
Na 330.237	11444.5	ppb	201.622	1.8	527.545
Ni 231.604	100.522	ppb	0.9503	0.9	313.935
Pb 220.353	489.675	ppb	0.5829	0.1	814.611
Sb 206.834	49.4593	ppb	3.4378	7.0	63.3272
Se 196.026	105.103	ppb	3.7366	3.6	51.8953
Sn 189.925	194.325	ppb	3.8282	2.0	142.276
Sr 216.596	110.554	ppb	0.1466	0.1	1418.40
Ti 334.941	100.260	ppb	0.2499	0.2	29216.0
Tl 190.794	39.7180	ppb	1.2669	3.2	33.1365
V 292.401	101.158	ppb	0.1801	0.2	2543.25
Zn 206.200	139.352	ppb	0.4239	0.3	164.257

680-107223-a-5-b msd (Samp) **11/14/2014, 8:33:34 PM** **Rack 2, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.0190	50.8364	50.4935
Al 308.215	5135.46	5096.88	5127.33
As 188.980	101.054	105.303	101.169
B 249.678	220.927	219.027	221.997
Ba 389.178	172.633	171.250	173.089
Be 313.042	53.1222	52.7882	53.1434
Ca 370.602	5737	5708	5758
Cd 226.502	50.4731	50.0635	50.4310
Co 228.615	52.9002	52.7760	52.0878
Cr 267.716	105.195	104.407	105.144
Cu 324.754	141.705	140.584	142.408
Fe 271.441	5068.81	5042.56	5084.53
K 766.491	5902.37	5865.42	5909.76
Mg 279.078	6054.40	6018.27	6069.88
Mn 257.610	547.761	543.710	546.983
Mo 202.032	97.3355	96.6955	98.5684
Na 330.237	11561.1	11295.3	11355.9

Label	Replicates Concentration		
Ni 231.604	100.719	100.439	103.635
Pb 220.353	488.412	484.234	489.968
Sb 206.834	46.6359	49.5511	53.5602
Se 196.026	95.7093	110.964	98.6478
Sn 189.925	190.053	190.103	192.057
Sr 216.596	110.144	109.010	110.800
Ti 334.941	99.9862	99.3842	99.9814
Tl 190.794	40.4268	38.9975	41.0604
V 292.401	100.789	100.707	101.318
Zn 206.200	148.324	146.279	147.804

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.7830	ppb	0.2668	0.5	4046.05
Al 308.215	5119.89	ppb	20.3418	0.4	34160.9
As 188.980	102.508	ppb	2.4207	2.4	62.1951
B 249.678	220.650	ppb	1.5040	0.7	3632.61
Ba 389.178	172.324	ppb	0.9573	0.6	3765.60
Be 313.042	53.0179	ppb	0.1992	0.4	99641.3
Ca 370.602	5734	ppb	25.38	0.4	15389
Cd 226.502	50.3225	ppb	0.2253	0.4	2307.22
Co 228.615	52.5880	ppb	0.4376	0.8	631.742
Cr 267.716	104.915	ppb	0.4406	0.4	5723.06
Cu 324.754	141.566	ppb	0.9203	0.7	9736.74
Fe 271.441	5065.30	ppb	21.2008	0.4	8157.47
K 766.491	5892.51	ppb	23.7573	0.4	237097
Mg 279.078	6047.52	ppb	26.4843	0.4	16431.6
Mn 257.610	546.151	ppb	2.1499	0.4	114436
Mo 202.032	97.5331	ppb	0.9520	1.0	663.745
Na 330.237	11404.1	ppb	139.287	1.2	525.605
Ni 231.604	101.598	ppb	1.7704	1.7	317.353
Pb 220.353	487.538	ppb	2.9655	0.6	811.112
Sb 206.834	49.9157	ppb	3.4766	7.0	63.9574
Se 196.026	101.774	ppb	8.0936	8.0	50.3955
Sn 189.925	190.738	ppb	1.1428	0.6	139.551
Sr 216.596	109.985	ppb	0.9055	0.8	1411.11
Ti 334.941	99.7839	ppb	0.3462	0.3	29077.3
Tl 190.794	40.1616	ppb	1.0567	2.6	33.6046
V 292.401	100.938	ppb	0.3314	0.3	2537.65
Zn 206.200	147.469	ppb	1.0629	0.7	173.829

680-107131-a-13-a (Samp) **11/14/2014, 8:37:50 PM** **Rack 2, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0344u	0.1874	0.2865
Al 308.215	10.3387	12.8842	11.0513
As 188.980	12.6593	9.5900	7.4500
B 249.678	247.996	247.481	248.930
Ba 389.178	211.511	211.876	211.633
Be 313.042	-0.0186	-0.0262	-0.0278
Ca 370.602	275015	275331	273764
Cd 226.502	-0.6833	-0.4829	-0.5396
Co 228.615	0.6182	1.0562	0.3093
Cr 267.716	0.0638	0.1456	0.1525

Label	Replicates Concentration		
Cu 324.754	-0.3143u	-0.4120u	-0.5261u
Fe 271.441	40095.6	40052.1	40100.2
K 766.491	32771.8	32734.3	32796.2
Mg 279.078	69478.6	69329.4	69507.4
Mn 257.610	3412.01	3412.21	3424.16
Mo 202.032	0.9432	0.5621	0.7388
Na 330.237	42551.4	42437.5	42360.5
Ni 231.604	18.8371	20.5732	20.0109
Pb 220.353	-0.2337	3.4224	-0.3223
Sb 206.834	0.4193	1.1231	-2.3094u
Se 196.026	-6.6151u	2.3711	6.0529
Sn 189.925	-1.3279u	2.1212	0.3027
Sr 216.596	523.494	520.306	520.572
Ti 334.941	0.1003	0.1042	0.0754
Tl 190.794	0.4394u	3.0555u	-3.3865u
V 292.401	10.3515	9.8027	9.6653
Zn 206.200	12.3164	13.7972	12.9393

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1694	ppb	0.1270	75.0	-29.3775
Al 308.215	11.4247	ppb	1.3132	11.5	524.189
As 188.980	9.8998	ppb	2.6185	26.4	0.2596
B 249.678	248.136	ppb	0.7349	0.3	4001.42
Ba 389.178	211.673	ppb	0.1862	0.1	4785.86
Be 313.042	-0.0242	ppb	0.0049	20.2	-270.834
Ca 370.602	274703	ppb	828.4	0.3	735587
Cd 226.502	-0.5686	ppb	0.1033	18.2	197.635
Co 228.615	0.6612	ppb	0.3753	56.8	11.4015
Cr 267.716	0.1207	ppb	0.0494	40.9	73.5435
Cu 324.754	-0.4175	ppb	0.1061	25.4	180.009
Fe 271.441	40082.6	ppb	26.5473	0.1	64394.3
K 766.491	32767.4	ppb	31.2228	0.1	1317420
Mg 279.078	69438.5	ppb	95.5113	0.1	188510
Mn 257.610	3416.13	ppb	6.9554	0.2	715645
Mo 202.032	0.7480	ppb	0.1907	25.5	12.8844
Na 330.237	42449.8	ppb	96.0332	0.2	1882.15
Ni 231.604	19.8070	ppb	0.8858	4.5	60.4066
Pb 220.353	0.9554	ppb	2.1369	223.7	17.6481
Sb 206.834	-0.2557	ppb	1.8130	709.1	-4.6645
Se 196.026	0.6030	ppb	6.5164	1080.7	5.7930
Sn 189.925	0.3654	ppb	1.7254	472.2	-5.0610
Sr 216.596	521.457	ppb	1.7688	0.3	6814.99
Ti 334.941	0.0933	ppb	0.0156	16.7	156.359
Tl 190.794	0.0361	ppb	3.2399	8963.5	-12.3486
V 292.401	9.9398	ppb	0.3631	3.7	220.930
Zn 206.200	13.0176	ppb	0.7435	5.7	14.1874

680-107162-b-1-a (Samp) **11/14/2014, 8:42:07 PM** **Rack 2, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1789u	0.1210u	0.0046u
Al 308.215	398.540	398.651	396.807
As 188.980	29.8825	26.2175	25.2062

Label	Replicates Concentration		
B 249.678	274.524	275.858	275.471
Ba 389.178	591.001	592.260	591.034
Be 313.042	0.0057	0.0001	0.0051
Ca 370.602	108095	108511	108269
Cd 226.502	-0.0144	-0.0002	-0.0372
Co 228.615	1.5549	2.3026	1.5884
Cr 267.716	160.132	160.551	160.158
Cu 324.754	7.5874	7.4221	7.5995
Fe 271.441	4435.10	4440.98	4426.11
K 766.491	133261x	133227x	133131x
Mg 279.078	36601.9	36630.3	36547.4
Mn 257.610	655.726	654.816	653.036
Mo 202.032	6.0608	5.8866	5.9614
Na 330.237	54108.5	53796.3	53812.5
Ni 231.604	35.3321	36.8698	34.9584
Pb 220.353	-1.5213u	4.1617	3.5931
Sb 206.834	-1.5287u	1.5027	0.4934
Se 196.026	-5.0387u	-0.8408u	15.1510
Sn 189.925	-0.6182u	1.1335	0.3480
Sr 216.596	695.653	692.865	692.171
Ti 334.941	14.7511	14.7595	14.7367
Tl 190.794	-0.9286u	-1.6569u	-1.5062u
V 292.401	1.9112	2.0077	1.8501
Zn 206.200	24.9489	24.3381	22.9451

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1015b	ppb	0.0887	87.4	-47.0813
Al 308.215	397.999b	ppb	1.0339	0.3	3064.10
As 188.980	27.1020b	ppb	2.4605	9.1	11.9588
B 249.678	275.284b	ppb	0.6860	0.2	4525.43
Ba 389.178	591.432b	ppb	0.7177	0.1	13036.0
Be 313.042	0.0036b	ppb	0.0031	84.8	-284.067
Ca 370.602	108292b	ppb	209.1	0.2	290092
Cd 226.502	-0.0172b	ppb	0.0187	108.4	50.7749
Co 228.615	1.8153b	ppb	0.4223	23.3	23.3563
Cr 267.716	160.280b	ppb	0.2346	0.1	8727.45
Cu 324.754	7.5364b	ppb	0.0991	1.3	702.177
Fe 271.441	4434.06b	ppb	7.4890	0.2	7137.09
K 766.491	133206xb	ppb	67.0867	0.1	5354878
Mg 279.078	36593.2b	ppb	42.1186	0.1	99376.5
Mn 257.610	654.526b	ppb	1.3679	0.2	137343
Mo 202.032	5.9696b	ppb	0.0874	1.5	49.5715
Na 330.237	53905.8b	ppb	175.772	0.3	2392.02
Ni 231.604	35.7201b	ppb	1.0131	2.8	107.897
Pb 220.353	2.0778b	ppb	3.1299	150.6	16.5481
Sb 206.834	0.1558b	ppb	1.5436	990.7	-2.8167
Se 196.026	3.0905b	ppb	10.6535	344.7	5.9779
Sn 189.925	0.2878b	ppb	0.8774	304.9	-5.1163
Sr 216.596	693.563b	ppb	1.8430	0.3	8889.17
Ti 334.941	14.7491b	ppb	0.0115	0.1	4361.64
Tl 190.794	-1.3639b	ppb	0.3844	28.2	-9.8601
V 292.401	1.9230b	ppb	0.0794	4.1	20.3411
Zn 206.200	24.0774b	ppb	1.0271	4.3	28.2388

680-107162-a-2-a (Samp) **11/14/2014, 8:46:25 PM** **Rack 2, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0281u	0.0382u	0.1414u
Al 308.215	6.1056	8.0484	7.1046
As 188.980	21.2772	24.6813	24.8446
B 249.678	273.841	273.078	273.771
Ba 389.178	570.410	569.732	571.371
Be 313.042	-0.0240u	-0.0243u	-0.0294u
Ca 370.602	107010	106997	106886
Cd 226.502	-0.0139	-0.0195	0.0437
Co 228.615	0.7393	0.0994	0.7349
Cr 267.716	0.6710	0.6492	0.5885
Cu 324.754	0.1307	-0.0687u	0.0991
Fe 271.441	2482.24	2479.15	2478.46
K 766.491	132391x	132281x	132325x
Mg 279.078	36077.0	36035.4	35987.9
Mn 257.610	612.422	611.116	612.069
Mo 202.032	5.6089	5.7758	5.1965
Na 330.237	53440.8	53561.8	53589.4
Ni 231.604	28.9855	31.3455	30.6710
Pb 220.353	-0.8143u	-0.0781	2.0220
Sb 206.834	-1.4204u	2.5143	-2.8623u
Se 196.026	-3.8806u	-4.0946u	9.2437
Sn 189.925	-2.0994u	2.9169	1.7321
Sr 216.596	686.764	684.131	685.053
Ti 334.941	-0.0767	-0.0884	-0.1279
Tl 190.794	-1.7348u	-0.3885u	3.8333
V 292.401	0.3190	0.1802	0.0441u
Zn 206.200	6.5886	7.2872	7.0952

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0692b	ppb	0.0627	90.6	-49.2113
Al 308.215	7.0862b	ppb	0.9715	13.7	490.486
As 188.980	23.6010b	ppb	2.0142	8.5	9.6379
B 249.678	273.563b	ppb	0.4218	0.2	4501.74
Ba 389.178	570.504b	ppb	0.8236	0.1	12573.5
Be 313.042	-0.0259b	ppb	0.0030	11.6	-340.188
Ca 370.602	106964b	ppb	68.15	0.1	286548
Cd 226.502	0.0035b	ppb	0.0350	1009.4	42.3182
Co 228.615	0.5245b	ppb	0.3682	70.2	7.0203
Cr 267.716	0.6362b	ppb	0.0427	6.7	70.1850
Cu 324.754	0.0537b	ppb	0.1072	199.6	197.143
Fe 271.441	2479.95b	ppb	2.0148	0.1	3997.99
K 766.491	132332xb	ppb	55.3748	0.0	5319753
Mg 279.078	36033.4b	ppb	44.5519	0.1	97857.5
Mn 257.610	611.869b	ppb	0.6755	0.1	128406
Mo 202.032	5.5271b	ppb	0.2982	5.4	46.6944
Na 330.237	53530.7b	ppb	79.0431	0.1	2376.31
Ni 231.604	30.3340b	ppb	1.2156	4.0	90.5979
Pb 220.353	0.3766b	ppb	1.4718	390.9	13.4959
Sb 206.834	-0.5895b	ppb	2.7830	472.1	-5.8770
Se 196.026	0.4229b	ppb	7.6398	1806.7	4.7498
Sn 189.925	0.8499b	ppb	2.6219	308.5	-4.6894
Sr 216.596	685.316b	ppb	1.3362	0.2	8780.85

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	-0.0977b	ppb	0.0269	27.5	36.3278
Tl 190.794	0.5700b	ppb	2.9052	509.7	-7.5598
V 292.401	0.1811b	ppb	0.1375	75.9	-16.7902
Zn 206.200	6.9903b	ppb	0.3609	5.2	8.5187

Cont Calib Verif (CCV) **11/14/2014, 8:50:41 PM** **Rack 2, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	495.139	490.949	494.099
Al 308.215	4888.92	4942.43	4904.24
As 188.980	458.959	456.604	468.596
B 249.678	504.201	507.238	511.042
Ba 389.178	4713.89	4709.74	4711.55
Be 313.042	509.330	509.972	511.883
Ca 370.602	4708	4709	4732
Cd 226.502	488.639	489.780	492.246
Co 228.615	496.195	495.993	497.927
Cr 267.716	5054.86	5055.75	5068.09
Cu 324.754	5054.01	5020.71	5084.47
Fe 271.441	4938.51	4938.88	4955.75
K 766.491	10217.5	10221.1	10218.4
Mg 279.078	4926.06	4941.63	4957.01
Mn 257.610	5013.28	5049.61	5023.42
Mo 202.032	475.471	480.561	483.146
Na 330.237	7758.05	7729.57	7586.14
Ni 231.604	2461.79	2465.54	2472.46
Pb 220.353	479.487	474.085	478.958
Sb 206.834	902.249	907.418	912.941
Se 196.026	5000.68	4990.50	5009.97
Sn 189.925	4768.60	4799.72	4809.87
Sr 216.596	2443.35	2448.00	2455.47
Ti 334.941	485.136	484.756	485.030
Tl 190.794	4856.55	4866.48	4880.08
V 292.401	4869.44	4859.22	4878.70
Zn 206.200	2506.27	2514.66	2538.66

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	493.396	ppb	2.1817	0.4	39580.9	98.67915
Al 308.215	4911.86	ppb	27.5569	0.6	33411.7	98.23726
As 188.980	461.386	ppb	6.3538	1.4	301.319	92.27727
B 249.678	507.494	ppb	3.4278	0.7	8327.10	101.49873
Ba 389.178	4711.73	ppb	2.0831	0.0	103517	94.23453
Be 313.042	510.395	ppb	1.3280	0.3	962235	102.07896
Ca 370.602	4716	ppb	13.31	0.3	12968	94.32444
Cd 226.502	490.222	ppb	1.8435	0.4	22000.8	98.04432
Co 228.615	496.705	ppb	1.0633	0.2	5969.03	99.34106
Cr 267.716	5059.57	ppb	7.3931	0.1	274336	101.19135
Cu 324.754	5053.06	ppb	31.8885	0.6	340673	101.06125
Fe 271.441	4944.38	ppb	9.8509	0.2	8056.42	98.88759
K 766.491	10219.0	ppb	1.8680	0.0	411014	102.19004
Mg 279.078	4941.57	ppb	15.4784	0.3	13336.2	98.83137
Mn 257.610	5028.77	ppb	18.7454	0.4	1052560	100.57547
Mo 202.032	479.726	ppb	3.9050	0.8	3222.85	95.94522

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	7691.25	ppb	92.1407	1.2	317.180	102.55006
Ni 231.604	2466.60	ppb	5.4122	0.2	7838.22	98.66388
Pb 220.353	477.510	ppb	2.9778	0.6	798.935	95.50194
Sb 206.834	907.536	ppb	5.3473	0.6	1309.20	90.75361
Se 196.026	5000.38	ppb	9.7353	0.2	2257.23	100.00770
Sn 189.925	4792.73	ppb	21.5081	0.4	3635.59	95.85459
Sr 216.596	2448.94	ppb	6.1131	0.2	31130.0	97.95767
Ti 334.941	484.974	ppb	0.1962	0.0	141261	96.99480
Tl 190.794	4867.70	ppb	11.8129	0.2	5115.04	97.35406
V 292.401	4869.12	ppb	9.7437	0.2	124193	97.38242
Zn 206.200	2519.86	ppb	16.8087	0.7	2960.18	100.79454

Cont Calib Blank (CCB) **11/14/2014, 8:54:57 PM** **Rack 2, Tube 14**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2017	0.3023	0.4113
Al 308.215	1.1476	2.2746	1.5460
As 188.980	2.6332	-2.4389u	-0.1222u
B 249.678	10.1017	9.5088	8.4229
Ba 389.178	0.5535	0.5227	0.1105
Be 313.042	0.0316	0.0323	0.0352
Ca 370.602	-1.285u	6.254	2.173
Cd 226.502	0.0909	-0.1494u	0.0686
Co 228.615	-0.4034u	-0.4508u	0.0161
Cr 267.716	0.2581	0.3890	0.3463
Cu 324.754	0.4234	0.4590	0.1107
Fe 271.441	1.8487	5.4028	3.4075
K 766.491	4.6124	4.2222	3.6022
Mg 279.078	2.0148	2.0910	1.3588
Mn 257.610	0.3590	0.3122	0.3313
Mo 202.032	-0.1920u	0.2022	0.0914
Na 330.237	-130.254u	-74.7138u	31.6997
Ni 231.604	0.8645	1.0084	0.2981
Pb 220.353	1.9755	-1.1578u	-1.8769u
Sb 206.834	0.9932	2.8326	2.8610
Se 196.026	4.9740	3.8933	2.7573
Sn 189.925	3.0052	1.3248	-1.9675u
Sr 216.596	-0.2522u	0.1318	0.1972
Ti 334.941	0.0591	0.1313	0.0610
Tl 190.794	0.6839	-1.0810u	2.8061
V 292.401	0.4508	0.8025	0.7470
Zn 206.200	-0.1486u	2.8478	0.6020

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3051	ppb	0.1048	34.4	-9.8624	0.30509
Al 308.215	1.6561	ppb	0.5715	34.5	454.376	1.65606
As 188.980	0.0240	ppb	2.5392	10559.8	-6.0610	0.02405
B 249.678	9.3445	ppb	0.8514	9.1	194.613	9.34445
Ba 389.178	0.3956	ppb	0.2473	62.5	-29.0025	0.39555
Be 313.042	0.0330	ppb	0.0019	5.9	-253.118	0.03304
Ca 370.602	2.381	ppb	3.774	158.5	29.05	2.38067
Cd 226.502	0.0034	ppb	0.1328	3941.0	30.2365	0.00337
Co 228.615	-0.2794	ppb	0.2570	92.0	-2.7480	-0.27936

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	0.3312	ppb	0.0667	20.2	48.4354	0.33115
Cu 324.754	0.3311	ppb	0.1916	57.9	214.652	0.33105
Fe 271.441	3.5530	ppb	1.7815	50.1	20.3778	3.55300
K 766.491	4.1456	ppb	0.5094	12.3	395.275	4.14561
Mg 279.078	1.8215	ppb	0.4025	22.1	27.9311	1.82153
Mn 257.610	0.3342	ppb	0.0235	7.0	146.546	0.33421
Mo 202.032	0.0339	ppb	0.2033	600.2	9.9544	0.03388
Na 330.237	-57.7561	ppb	82.2978	142.5	26.8878	-57.75605
Ni 231.604	0.7237	ppb	0.3755	51.9	-3.7939	0.72368
Pb 220.353	-0.3531	ppb	2.0484	580.2	12.0081	-0.35306
Sb 206.834	2.2289	ppb	1.0703	48.0	-1.9311	2.22889
Se 196.026	3.8749	ppb	1.1085	28.6	6.1445	3.87488
Sn 189.925	0.7875	ppb	2.5295	321.2	-4.7535	0.78750
Sr 216.596	0.0256	ppb	0.2428	947.6	5.2506	0.02562
Ti 334.941	0.0838	ppb	0.0412	49.1	29.2362	0.08382
Tl 190.794	0.8030	ppb	1.9463	242.4	-7.2288	0.80299
V 292.401	0.6668	ppb	0.1890	28.4	-2.5020	0.66677
Zn 206.200	1.1004	ppb	1.5591	141.7	1.6693	1.10037

680-107162-b-3-a (Samp) **11/14/2014, 8:59:13 PM** **Rack 2, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1301u	0.1360u	0.0005u
Al 308.215	17.9647	18.8024	16.3606
As 188.980	19.2122	16.8994	22.1094
B 249.678	319.462	318.021	319.212
Ba 389.178	187.700	189.856	188.598
Be 313.042	-0.0435	-0.0498	-0.0428
Ca 370.602	370176	369888	370401
Cd 226.502	-0.7627	-0.7668	-0.7121
Co 228.615	46.6127	47.1947	46.2502
Cr 267.716	235.711	235.305	235.130
Cu 324.754	0.4427	0.3293	0.0380
Fe 271.441	70959.3	70796.6	70573.3
K 766.491	29982.6	30018.1	29991.8
Mg 279.078	53187.3	53092.7	53038.5
Mn 257.610	4142.64	4150.57	4148.51
Mo 202.032	5.2798	4.9606	4.8431
Na 330.237	176792x	176030x	176114x
Ni 231.604	1857.07	1857.77	1859.46
Pb 220.353	-0.2607	3.7737	-0.6247
Sb 206.834	2.0137	-4.4233u	0.2609
Se 196.026	8.9547	3.9520	-0.7873
Sn 189.925	-2.6378u	1.5624	-0.4285u
Sr 216.596	862.485	862.341	858.177
Ti 334.941	0.3225	0.2938	0.4348
Tl 190.794	-0.1487u	-2.7693u	-1.5308u
V 292.401	1.6384	1.2216u	1.3050u
Zn 206.200	22.8231	25.1150	23.9220

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0021b	ppb	0.1331	6232.5	-55.0296
Al 308.215	17.7093b	ppb	1.2408	7.0	567.468

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	19.4070b	ppb	2.6104	13.5	6.3953
B 249.678	318.898b	ppb	0.7700	0.2	5087.09
Ba 389.178	188.718b	ppb	1.0831	0.6	4271.20
Be 313.042	-0.0453b	ppb	0.0039	8.5	-292.015
Ca 370.602	370155b	ppb	257.2	0.1	991002
Cd 226.502	-0.7472b	ppb	0.0305	4.1	335.473
Co 228.615	46.6858b	ppb	0.4765	1.0	566.493
Cr 267.716	235.382b	ppb	0.2980	0.1	12850.6
Cu 324.754	0.2700b	ppb	0.2087	77.3	238.771
Fe 271.441	70776.4b	ppb	193.772	0.3	113699
K 766.491	29997.5b	ppb	18.3910	0.1	1206073
Mg 279.078	53106.1b	ppb	75.3034	0.1	144145
Mn 257.610	4147.24b	ppb	4.1156	0.1	868621
Mo 202.032	5.0278b	ppb	0.2260	4.5	40.1926
Na 330.237	176312xb	ppb	417.436	0.2	7745.79
Ni 231.604	1858.10b	ppb	1.2299	0.1	5909.76
Pb 220.353	0.9628b	ppb	2.4411	253.6	20.1165
Sb 206.834	-0.7162b	ppb	3.3279	464.6	-1.8758
Se 196.026	4.0398b	ppb	4.8716	120.6	7.7771
Sn 189.925	-0.5013b	ppb	2.1011	419.1	-5.6775
Sr 216.596	861.001b	ppb	2.4469	0.3	11167.8
Ti 334.941	0.3503b	ppb	0.0745	21.3	195.479
Tl 190.794	-1.4829b	ppb	1.3110	88.4	-18.0751
V 292.401	1.3883b	ppb	0.2205	15.9	-20.3782
Zn 206.200	23.9534b	ppb	1.1463	4.8	25.3903

680-107162-a-4-a (Samp) **11/14/2014, 9:03:28 PM** **Rack 2, Tube 16**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0165u	0.2604	0.0654u
Al 308.215	11.3526	8.3310	9.5897
As 188.980	19.9764	19.1159	20.4798
B 249.678	317.204	316.875	316.868
Ba 389.178	184.731	185.383	183.174
Be 313.042	-0.0463	-0.0508	-0.0478
Ca 370.602	366947	366845	369568
Cd 226.502	-0.5973	-0.4832	-0.7784
Co 228.615	47.6071	46.4142	47.0897
Cr 267.716	2.8809	3.0378	2.7632
Cu 324.754	0.1406	0.3061	0.2682
Fe 271.441	70661.8	70827.4	70694.2
K 766.491	29297.0	29217.3	29153.3
Mg 279.078	52110.8	52101.3	52106.4
Mn 257.610	4097.15	4085.18	4090.60
Mo 202.032	4.2565	3.7323	5.1640
Na 330.237	180061x	179857x	179371x
Ni 231.604	1881.95	1883.74	1870.43
Pb 220.353	6.3364	-0.4135	3.0680
Sb 206.834	0.0517	-2.7959u	-1.0887u
Se 196.026	3.9979	6.5864	-8.6586u
Sn 189.925	2.0954	3.9540	-1.3398u
Sr 216.596	850.032	849.218	848.149
Ti 334.941	0.2018	0.1847	0.1914

Label	Replicates Concentration		
Tl 190.794	-5.1845u	-2.6010u	0.1031u
V 292.401	0.0536u	0.5223u	0.0039u
Zn 206.200	26.7252	24.9412	22.7207

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1031b	ppb	0.1423	138.0	-46.8149
Al 308.215	9.7578b	ppb	1.5178	15.6	514.995
As 188.980	19.8574b	ppb	0.6897	3.5	6.6960
B 249.678	316.982b	ppb	0.1920	0.1	5055.90
Ba 389.178	184.429b	ppb	1.1349	0.6	4174.88
Be 313.042	-0.0483b	ppb	0.0023	4.7	-298.817
Ca 370.602	367787b	ppb	1544	0.4	984657
Cd 226.502	-0.6196b	ppb	0.1488	24.0	340.923
Co 228.615	47.0370b	ppb	0.5982	1.3	570.155
Cr 267.716	2.8939b	ppb	0.1378	4.8	244.626
Cu 324.754	0.2383b	ppb	0.0867	36.4	236.606
Fe 271.441	70727.8b	ppb	87.7536	0.1	113621
K 766.491	29222.6b	ppb	72.0004	0.2	1174922
Mg 279.078	52106.2b	ppb	4.7967	0.0	141430
Mn 257.610	4090.98b	ppb	5.9933	0.1	856839
Mo 202.032	4.3842b	ppb	0.7243	16.5	35.8778
Na 330.237	179763xb	ppb	354.791	0.2	7897.11
Ni 231.604	1878.71b	ppb	7.2237	0.4	5975.29
Pb 220.353	2.9969b	ppb	3.3755	112.6	23.2339
Sb 206.834	-1.2777b	ppb	1.4332	112.2	-5.5584
Se 196.026	0.6419b	ppb	8.1578	1270.9	6.2341
Sn 189.925	1.5698b	ppb	2.6857	171.1	-4.1030
Sr 216.596	849.133b	ppb	0.9441	0.1	11014.9
Ti 334.941	0.1926b	ppb	0.0086	4.5	147.496
Tl 190.794	-2.5608b	ppb	2.6440	103.2	-19.2268
V 292.401	0.1933b	ppb	0.2860	148.0	-41.0424
Zn 206.200	24.7957b	ppb	2.0062	8.1	26.8981

680-107162-b-5-a (Samp) **11/14/2014, 9:07:44 PM** **Rack 2, Tube 17**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0498u	-0.1621u	0.0482u
Al 308.215	197.713	200.842	199.753
As 188.980	9.4859	0.2136	4.5855
B 249.678	310.295	308.399	309.941
Ba 389.178	50.5831	50.7944	52.1879
Be 313.042	-0.0799	-0.0825u	-0.0903u
Ca 370.602	507918	507849	503258
Cd 226.502	0.0617	0.2422	0.1077
Co 228.615	15.3052	15.3987	15.5143
Cr 267.716	110.499	110.203	109.894
Cu 324.754	3.5540	3.4651	2.9949
Fe 271.441	956.544	941.885	942.542
K 766.491	40183.5	40011.7	40057.7
Mg 279.078	45810.8	45739.3	45585.1
Mn 257.610	6867.50	6846.65	6847.26
Mo 202.032	5.1550	4.8282	4.2138
Na 330.237	221515x	220332x	221130x

Label	Replicates Concentration		
Ni 231.604	82.8402	84.4221	80.8115
Pb 220.353	3.3747	3.9671	1.7453
Sb 206.834	-0.9338	-1.6192u	-1.2663u
Se 196.026	24.1091	5.6236	19.0162
Sn 189.925	-0.0890	-0.9074u	-2.7360u
Sr 216.596	1868.06	1864.65	1860.74
Ti 334.941	5.6065	5.4990	5.7919
Tl 190.794	-4.5628u	0.1601	-0.9082
V 292.401	1.2461	1.9418	0.9860
Zn 206.200	30.5968	31.4181	31.0425

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0213b	ppb	0.1219	571.4	-65.1115
Al 308.215	199.436b	ppb	1.5883	0.8	1756.56
As 188.980	4.7617b	ppb	4.6386	97.4	-2.9104
B 249.678	309.545b	ppb	1.0080	0.3	5092.21
Ba 389.178	51.1885b	ppb	0.8720	1.7	1181.36
Be 313.042	-0.0842b	ppb	0.0054	6.5	-319.293
Ca 370.602	506342b	ppb	2671	0.5	1356562
Cd 226.502	0.1372b	ppb	0.0938	68.4	40.0090
Co 228.615	15.4061b	ppb	0.1048	0.7	185.892
Cr 267.716	110.199b	ppb	0.3025	0.3	6043.73
Cu 324.754	3.3380b	ppb	0.3005	9.0	417.821
Fe 271.441	946.991b	ppb	8.2804	0.9	1537.72
K 766.491	40084.3b	ppb	88.9454	0.2	1611544
Mg 279.078	45711.7b	ppb	115.310	0.3	124010
Mn 257.610	6853.81b	ppb	11.8659	0.2	1434803
Mo 202.032	4.7323b	ppb	0.4779	10.1	41.4316
Na 330.237	220992xb	ppb	603.601	0.3	9720.13
Ni 231.604	82.6913b	ppb	1.8099	2.2	256.951
Pb 220.353	3.0290b	ppb	1.1506	38.0	19.1446
Sb 206.834	-1.2731b	ppb	0.3427	26.9	-5.4617
Se 196.026	16.2496b	ppb	9.5483	58.8	13.2667
Sn 189.925	-1.2441b	ppb	1.3553	108.9	-6.2276
Sr 216.596	1864.48b	ppb	3.6629	0.2	23961.4
Ti 334.941	5.6325b	ppb	0.1482	2.6	1708.98
Tl 190.794	-1.7703b	ppb	2.4767	139.9	-6.6934
V 292.401	1.3913b	ppb	0.4942	35.5	9.1362
Zn 206.200	31.0191b	ppb	0.4111	1.3	36.6671

680-107162-a-6-a (Samp) **11/14/2014, 9:12:00 PM** **Rack 2, Tube 18**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0630u	-0.1921u	-0.1450u
Al 308.215	9.3069	10.3077	12.2718
As 188.980	10.4025	0.8262	15.0786
B 249.678	308.557	311.574	311.194
Ba 389.178	50.9302	51.3727	50.2847
Be 313.042	-0.0957u	-0.0977u	-0.0975u
Ca 370.602	500882	503595	503136
Cd 226.502	0.2596	0.2207	0.3100
Co 228.615	14.9114	14.8277	15.4367
Cr 267.716	2.5654	2.5568	2.7463

Label	Replicates Concentration		
Cu 324.754	1.0459	1.1723	1.0599
Fe 271.441	199.870	194.176	193.491
K 766.491	40491.6x	40653.9x	40619.2x
Mg 279.078	45462.3	45663.1	45571.3
Mn 257.610	6781.34	6825.20	6821.45
Mo 202.032	4.3856	4.8370	5.6271
Na 330.237	225250x	227644x	226824x
Ni 231.604	79.2557	80.7527	81.8393
Pb 220.353	-0.2937	2.7554	1.5737
Sb 206.834	2.3681	-3.8699u	-1.1459u
Se 196.026	11.9990	0.6940	-1.3856
Sn 189.925	-0.0762	-1.7797u	0.7655
Sr 216.596	1858.07	1866.40	1867.28
Ti 334.941	0.3819	0.3930	0.5072
Tl 190.794	-3.5988u	3.0853	-4.0823u
V 292.401	0.5140	0.4322	-0.2399u
Zn 206.200	28.3741	26.1939	27.3239

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1334b	ppb	0.0653	49.0	-74.3564
Al 308.215	10.6288b	ppb	1.5083	14.2	513.538
As 188.980	8.7691b	ppb	7.2653	82.9	-0.2341
B 249.678	310.442b	ppb	1.6432	0.5	5108.57
Ba 389.178	50.8625b	ppb	0.5471	1.1	1173.38
Be 313.042	-0.0970b	ppb	0.0011	1.1	-344.018
Ca 370.602	502538b	ppb	1452	0.3	1346375
Cd 226.502	0.2634b	ppb	0.0448	17.0	42.0413
Co 228.615	15.0586b	ppb	0.3301	2.2	181.286
Cr 267.716	2.6228b	ppb	0.1070	4.1	210.260
Cu 324.754	1.0927b	ppb	0.0693	6.3	266.228
Fe 271.441	195.845b	ppb	3.5021	1.8	331.022
K 766.491	40588.2xb	ppb	85.4746	0.2	1631801
Mg 279.078	45565.6b	ppb	100.530	0.2	123614
Mn 257.610	6809.33b	ppb	24.3105	0.4	1425491
Mo 202.032	4.9499b	ppb	0.6284	12.7	42.9271
Na 330.237	226573xb	ppb	1216.41	0.5	9965.07
Ni 231.604	80.6159b	ppb	1.2972	1.6	250.285
Pb 220.353	1.3452b	ppb	1.5373	114.3	16.2354
Sb 206.834	-0.8826b	ppb	3.1273	354.3	-6.2860
Se 196.026	3.7692b	ppb	7.2027	191.1	7.6261
Sn 189.925	-0.3635b	ppb	1.2967	356.8	-5.5573
Sr 216.596	1863.92b	ppb	5.0839	0.3	23953.1
Ti 334.941	0.4274b	ppb	0.0694	16.2	192.368
Tl 190.794	-1.5320b	ppb	4.0060	261.5	-6.3638
V 292.401	0.2355b	ppb	0.4137	175.7	-15.7232
Zn 206.200	27.2973b	ppb	1.0903	4.0	32.5447

680-107162-b-10-a (Samp) **11/14/2014, 9:16:16 PM** **Rack 2, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3031	-0.0414u	0.0313u
Al 308.215	19.5112	20.3783	21.3919
As 188.980	7.6292	4.7031	7.1043

Label	Replicates Concentration		
B 249.678	286.682	286.454	287.524
Ba 389.178	756.880	757.117	758.181
Be 313.042	-0.0115u	-0.0139u	-0.0044
Ca 370.602	84884	84880	84937
Cd 226.502	-0.1326u	-0.1139u	-0.0232u
Co 228.615	-0.2784u	-0.5762u	-0.6036u
Cr 267.716	1.1268	0.9617	1.0491
Cu 324.754	1.4232	1.5445	1.9325
Fe 271.441	175.674	176.754	175.025
K 766.491	166091x	166019x	166485x
Mg 279.078	29141.6	29142.9	29125.7
Mn 257.610	398.085	397.974	398.518
Mo 202.032	2.0700	1.6948	1.8119
Na 330.237	66686.1	66881.0	66680.4
Ni 231.604	4.6274	3.0759	4.5637
Pb 220.353	0.3537	1.1851	-1.9060u
Sb 206.834	-2.1788u	-0.4368u	0.9609
Se 196.026	5.8018	7.7410	-0.7658u
Sn 189.925	-4.3378u	-1.5495u	-1.2731u
Sr 216.596	636.088	636.195	637.768
Ti 334.941	1.4187	1.4171	1.4369
Tl 190.794	0.5970	-3.6088u	-2.4056u
V 292.401	1.4665	1.5035	0.5776
Zn 206.200	5.4160	7.5167	6.3740

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0976b	ppb	0.1816	185.9	-45.8266
Al 308.215	20.4271b	ppb	0.9413	4.6	578.129
As 188.980	6.4789b	ppb	1.5601	24.1	-1.7598
B 249.678	286.887b	ppb	0.5637	0.2	4724.52
Ba 389.178	757.393b	ppb	0.6930	0.1	16664.0
Be 313.042	-0.0099b	ppb	0.0050	49.9	-320.420
Ca 370.602	84900b	ppb	31.44	0.0	227461
Cd 226.502	-0.0899b	ppb	0.0585	65.1	26.9239
Co 228.615	-0.4861b	ppb	0.1804	37.1	-5.1125
Cr 267.716	1.0459b	ppb	0.0826	7.9	90.5105
Cu 324.754	1.6334b	ppb	0.2661	16.3	302.544
Fe 271.441	175.817b	ppb	0.8734	0.5	297.054
K 766.491	166198xb	ppb	251.109	0.2	6681090
Mg 279.078	29136.7b	ppb	9.5879	0.0	79134.1
Mn 257.610	398.192b	ppb	0.2877	0.1	83628.7
Mo 202.032	1.8589b	ppb	0.1919	10.3	22.1892
Na 330.237	66749.2b	ppb	114.214	0.2	2956.51
Ni 231.604	4.0890b	ppb	0.8779	21.5	6.9257
Pb 220.353	-0.1224b	ppb	1.5996	1306.9	12.4797
Sb 206.834	-0.5516b	ppb	1.5730	285.2	-5.8023
Se 196.026	4.2590b	ppb	4.4583	104.7	6.4088
Sn 189.925	-2.3868b	ppb	1.6952	71.0	-7.1441
Sr 216.596	636.684b	ppb	0.9404	0.1	8150.05
Ti 334.941	1.4242b	ppb	0.0110	0.8	466.031
Tl 190.794	-1.8058b	ppb	2.1661	120.0	-9.8059
V 292.401	1.1826b	ppb	0.5242	44.3	10.1083
Zn 206.200	6.4356b	ppb	1.0517	16.3	7.9516

680-107162-a-11-a (Samp) **11/14/2014, 9:20:32 PM** **Rack 2, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0531u	-0.0086u	0.1626u
Al 308.215	9.1634	7.6337	5.9827
As 188.980	1.4465	4.2242	7.1157
B 249.678	285.900	286.216	286.326
Ba 389.178	751.812	753.891	753.579
Be 313.042	-0.0200u	-0.0168u	-0.0196u
Ca 370.602	84172	83767	83500
Cd 226.502	-0.1162u	-0.0949u	-0.0269u
Co 228.615	-0.3768u	-0.4985u	-0.1242u
Cr 267.716	0.2993	0.3602	0.3282
Cu 324.754	0.2638	0.0017	0.0577
Fe 271.441	113.636	109.549	109.154
K 766.491	166370x	166799x	166366x
Mg 279.078	29037.7	29046.1	29015.7
Mn 257.610	393.207	394.297	395.603
Mo 202.032	2.0564	1.9131	2.2767
Na 330.237	66520.5	66486.7	66549.0
Ni 231.604	4.1977	2.4097	4.4571
Pb 220.353	2.3653	-0.4719u	0.9177
Sb 206.834	0.5057	0.2118	-4.0098u
Se 196.026	3.3284	4.2430	5.7614
Sn 189.925	0.1446	5.1080	-0.9916u
Sr 216.596	632.830	635.729	634.948
Ti 334.941	-0.0265	-0.0081	-0.0323
Tl 190.794	0.5290	-2.0916u	2.9956
V 292.401	0.6562	1.2061	0.2941
Zn 206.200	5.4630	4.2240	7.7255

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0690b	ppb	0.0867	125.6	-48.1407
Al 308.215	7.5933b	ppb	1.5908	20.9	493.579
As 188.980	4.2622b	ppb	2.8348	66.5	-3.2371
B 249.678	286.148b	ppb	0.2210	0.1	4712.59
Ba 389.178	753.094b	ppb	1.1214	0.1	16569.3
Be 313.042	-0.0188b	ppb	0.0018	9.5	-337.289
Ca 370.602	83813b	ppb	338.4	0.4	224548
Cd 226.502	-0.0793b	ppb	0.0466	58.8	27.0858
Co 228.615	-0.3331b	ppb	0.1909	57.3	-3.3193
Cr 267.716	0.3292b	ppb	0.0305	9.3	51.5943
Cu 324.754	0.1077b	ppb	0.1380	128.2	199.711
Fe 271.441	110.780b	ppb	2.4815	2.2	192.597
K 766.491	166511xb	ppb	248.568	0.1	6693687
Mg 279.078	29033.2b	ppb	15.6970	0.1	78853.0
Mn 257.610	394.369b	ppb	1.1996	0.3	82827.6
Mo 202.032	2.0820b	ppb	0.1832	8.8	23.6900
Na 330.237	66518.7b	ppb	31.2165	0.0	2946.44
Ni 231.604	3.6882b	ppb	1.1148	30.2	5.6449
Pb 220.353	0.9370b	ppb	1.4187	151.4	14.2091
Sb 206.834	-1.0974b	ppb	2.5264	230.2	-6.5689
Se 196.026	4.4443b	ppb	1.2289	27.7	6.4907
Sn 189.925	1.4203b	ppb	3.2438	228.4	-4.2520
Sr 216.596	634.502b	ppb	1.5001	0.2	8122.00

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	-0.0223b	ppb	0.0126	56.6	44.6114
Tl 190.794	0.4777b	ppb	2.5440	532.6	-7.4000
V 292.401	0.7188b	ppb	0.4592	63.9	-1.7254
Zn 206.200	5.8042b	ppb	1.7755	30.6	7.2112

680-107162-b-12-a (Samp) **11/14/2014, 9:24:48 PM** **Rack 2, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0952u	-0.1327u	0.2406
Al 308.215	26.8503	30.5915	30.2939
As 188.980	5.2865	4.7219	-0.0759u
B 249.678	380.617	381.397	381.787
Ba 389.178	132.543	132.196	132.391
Be 313.042	-0.0319u	-0.0377u	-0.0381u
Ca 370.602	208032	208492	209850
Cd 226.502	0.0829	0.1411	0.0184
Co 228.615	12.1554	12.3620	12.6473
Cr 267.716	0.5821	0.5667	0.6365
Cu 324.754	0.3204	0.3764	0.5013
Fe 271.441	2545.53	2547.65	2556.35
K 766.491	29285.7	29426.1	29377.1
Mg 279.078	39847.7	39910.1	39915.9
Mn 257.610	1940.66	1940.33	1938.25
Mo 202.032	-0.0250u	0.6887	0.9160
Na 330.237	300873x	302167x	299220x
Ni 231.604	290.763	291.873	292.883
Pb 220.353	-0.0652	-1.6712u	1.1806
Sb 206.834	0.1354	2.2106	-1.3653u
Se 196.026	8.3010	-4.3625u	1.0051
Sn 189.925	-0.5936u	-3.2694u	-1.7808u
Sr 216.596	654.008	656.343	654.359
Ti 334.941	0.6708	0.6227	0.6279
Tl 190.794	-5.1449u	-2.0974u	-9.4649u
V 292.401	1.0438	1.1834	1.1126
Zn 206.200	154.764	157.422	155.115

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0677b	ppb	0.1882	278.0	-42.1933
Al 308.215	29.2452b	ppb	2.0794	7.1	636.311
As 188.980	3.3109b	ppb	2.9465	89.0	-3.8868
B 249.678	381.267b	ppb	0.5956	0.2	6259.21
Ba 389.178	132.376b	ppb	0.1740	0.1	2954.62
Be 313.042	-0.0359b	ppb	0.0035	9.7	-343.220
Ca 370.602	208791b	ppb	944.9	0.5	559353
Cd 226.502	0.0808b	ppb	0.0614	75.9	44.5628
Co 228.615	12.3882b	ppb	0.2470	2.0	149.516
Cr 267.716	0.5951b	ppb	0.0367	6.2	79.2392
Cu 324.754	0.3994b	ppb	0.0926	23.2	220.272
Fe 271.441	2549.84b	ppb	5.7310	0.2	4111.63
K 766.491	29362.9b	ppb	71.2404	0.2	1180566
Mg 279.078	39891.2b	ppb	37.8148	0.1	108306
Mn 257.610	1939.74b	ppb	1.3079	0.1	406335
Mo 202.032	0.5266b	ppb	0.4910	93.2	13.1414

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	300753xb	ppb	1476.94	0.5	13215.2
Ni 231.604	291.840b	ppb	1.0602	0.4	922.305
Pb 220.353	-0.1853b	ppb	1.4297	771.8	12.8662
Sb 206.834	0.3269b	ppb	1.7956	549.3	-4.5232
Se 196.026	1.6479b	ppb	6.3561	385.7	5.6008
Sn 189.925	-1.8813b	ppb	1.3408	71.3	-6.6869
Sr 216.596	654.903b	ppb	1.2592	0.2	8428.19
Ti 334.941	0.6405b	ppb	0.0264	4.1	238.842
Tl 190.794	-5.5691b	ppb	3.7020	66.5	-13.3209
V 292.401	1.1133b	ppb	0.0698	6.3	6.2199
Zn 206.200	155.767b	ppb	1.4440	0.9	183.938

680-107162-a-13-a (Samp) **11/14/2014, 9:29:05 PM** **Rack 2, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1433u	-0.0889u	0.0820u
Al 308.215	10.0319	11.2614	11.0487
As 188.980	2.8921	-0.4458u	6.3776
B 249.678	385.758	386.447	385.550
Ba 389.178	134.037	133.264	134.294
Be 313.042	-0.0401u	-0.0370u	-0.0381u
Ca 370.602	213292	213440	213256
Cd 226.502	-0.0343	0.0193	-0.0313
Co 228.615	10.7763	11.2627	11.4239
Cr 267.716	0.1526	0.0792	0.1449
Cu 324.754	-0.0406u	-0.0847u	0.0442
Fe 271.441	2279.18	2276.77	2275.57
K 766.491	29751.2	29856.3	29961.9
Mg 279.078	40658.5	40483.5	40506.3
Mn 257.610	1968.52	1963.59	1964.91
Mo 202.032	-0.7212u	0.1678	0.5501
Na 330.237	301556x	300107x	301476x
Ni 231.604	259.388	258.806	260.776
Pb 220.353	-0.6694u	3.5761	0.6147
Sb 206.834	-0.3290u	0.1732	0.6587
Se 196.026	-2.2537u	11.3713	0.5580
Sn 189.925	-0.4982u	2.7139	-3.5235u
Sr 216.596	670.062	668.474	665.699
Ti 334.941	0.0448	0.0681	0.0464
Tl 190.794	-0.4192	-1.2368u	-4.7665u
V 292.401	1.0745	0.5144	0.8483
Zn 206.200	158.967	153.552	154.790

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0455b	ppb	0.1203	264.6	-44.2896
Al 308.215	10.7807b	ppb	0.6571	6.1	514.713
As 188.980	2.9413b	ppb	3.4119	116.0	-4.1313
B 249.678	385.918b	ppb	0.4697	0.1	6335.74
Ba 389.178	133.865b	ppb	0.5363	0.4	2988.47
Be 313.042	-0.0384b	ppb	0.0016	4.1	-346.498
Ca 370.602	213329b	ppb	97.17	0.0	571512
Cd 226.502	-0.0154b	ppb	0.0301	194.9	38.9749
Co 228.615	11.1543b	ppb	0.3371	3.0	134.685

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.1256b	ppb	0.0404	32.1	53.8020
Cu 324.754	-0.0270b	ppb	0.0655	242.7	191.415
Fe 271.441	2277.17b	ppb	1.8393	0.1	3673.52
K 766.491	29856.5b	ppb	105.325	0.4	1200405
Mg 279.078	40549.4b	ppb	95.1453	0.2	110092
Mn 257.610	1965.68b	ppb	2.5518	0.1	411766
Mo 202.032	-0.0011b	ppb	0.6523	59929.6	9.6138
Na 330.237	301046xb	ppb	814.918	0.3	13228.1
Ni 231.604	259.657b	ppb	1.0122	0.4	819.926
Pb 220.353	1.1738b	ppb	2.1773	185.5	15.0800
Sb 206.834	0.1676b	ppb	0.4939	294.6	-4.7452
Se 196.026	3.2252b	ppb	7.1934	223.0	6.3147
Sn 189.925	-0.4359b	ppb	3.1191	715.5	-5.5886
Sr 216.596	668.078b	ppb	2.2082	0.3	8598.42
Ti 334.941	0.0531b	ppb	0.0130	24.5	68.8355
Tl 190.794	-2.1408b	ppb	2.3103	107.9	-9.6682
V 292.401	0.8124b	ppb	0.2818	34.7	-1.2639
Zn 206.200	155.770b	ppb	2.8374	1.8	183.953

680-107162-b-14-a (Samp) **11/14/2014, 9:33:21 PM** **Rack 2, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6266u	-0.4610u	-0.5666u
Al 308.215	71792.6	71577.1	71785.5
As 188.980	24.6894	12.4989	12.2769
B 249.678	427.377	428.829	431.525
Ba 389.178	4.0834	3.3694	4.0836
Be 313.042	6.8970	6.8760	6.8972
Ca 370.602	529167	531848	535034
Cd 226.502	28.3638	28.1204	28.4842
Co 228.615	610.369	609.539	613.147
Cr 267.716	37.6810	37.9137	37.7306
Cu 324.754	74.5943	74.4251	74.4806
Fe 271.441	55782.3	55602.2	55787.0
K 766.491	46173.0x	46151.2x	46143.3x
Mg 279.078	52392.1	52279.8	52482.4
Mn 257.610	2627.78	2618.53	2618.54
Mo 202.032	0.1360u	-0.4735u	-0.4348u
Na 330.237	121401x	121252x	121361x
Ni 231.604	1647.50	1649.27	1653.10
Pb 220.353	2.3312	4.9450	2.4518
Sb 206.834	-0.6554	1.3915	1.9186
Se 196.026	6.6828	12.9174	3.5808
Sn 189.925	1.1776	2.0252	-0.5968u
Sr 216.596	364.370	364.371	364.253
Ti 334.941	0.9446	0.9311	0.8616
Tl 190.794	-3.7679u	-2.3172u	-1.4163u
V 292.401	77.4841	77.2068	77.5400
Zn 206.200	2404.73	2407.66	2411.34

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5514b	ppb	0.0839	15.2	-88.5207
Al 308.215	71718.4b	ppb	122.431	0.2	472547

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	16.4884b	ppb	7.1031	43.1	4.5492
B 249.678	429.244b	ppb	2.1050	0.5	6921.95
Ba 389.178	3.8455b	ppb	0.4123	10.7	196.477
Be 313.042	6.8900b	ppb	0.0122	0.2	12864.3
Ca 370.602	532016b	ppb	2937	0.6	1424704
Cd 226.502	28.3228b	ppb	0.1853	0.7	1565.55
Co 228.615	611.018b	ppb	1.8896	0.3	7339.24
Cr 267.716	37.7751b	ppb	0.1226	0.3	2120.05
Cu 324.754	74.5000b	ppb	0.0863	0.1	5233.97
Fe 271.441	55723.9b	ppb	105.352	0.2	89587.9
K 766.491	46155.8xb	ppb	15.3868	0.0	1855609
Mg 279.078	52384.7b	ppb	101.468	0.2	142190
Mn 257.610	2621.62b	ppb	5.3414	0.2	549290
Mo 202.032	-0.2574b	ppb	0.3413	132.6	5.3435
Na 330.237	121338xb	ppb	77.1192	0.1	5291.99
Ni 231.604	1649.96b	ppb	2.8629	0.2	5245.03
Pb 220.353	3.2426b	ppb	1.4755	45.5	21.1175
Sb 206.834	0.8849b	ppb	1.3597	153.7	-2.3058
Se 196.026	7.7270b	ppb	4.7551	61.5	8.9616
Sn 189.925	0.8687b	ppb	1.3380	154.0	-4.6543
Sr 216.596	364.331b	ppb	0.0678	0.0	4895.20
Ti 334.941	0.9124b	ppb	0.0445	4.9	364.187
Tl 190.794	-2.5005b	ppb	1.1865	47.5	-16.0170
V 292.401	77.4103b	ppb	0.1785	0.2	1938.20
Zn 206.200	2407.91b	ppb	3.3086	0.1	2837.33

680-107162-a-15-a (Samp) **11/14/2014, 9:37:39 PM** **Rack 2, Tube 24**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3635u	-0.7558u	-0.7578u
Al 308.215	72401.5	72391.1	72578.2
As 188.980	18.2691	13.9196	23.0923
B 249.678	435.745	437.634	438.182
Ba 389.178	4.4274	3.4496	4.0280
Be 313.042	7.0118	7.0095	7.0192
Ca 370.602	545103	543749	544140
Cd 226.502	28.7293	28.9221	28.6460
Co 228.615	621.279	618.969	617.565
Cr 267.716	38.4231	38.3357	38.3297
Cu 324.754	72.0899	71.2663	70.3583
Fe 271.441	56528.3	56433.5	56550.8
K 766.491	46954.7x	46949.3x	47056.8x
Mg 279.078	53028.3	52998.5	53037.1
Mn 257.610	2639.94	2639.98	2638.52
Mo 202.032	-0.5912u	-0.6140u	0.0804u
Na 330.237	122590x	122578x	122323x
Ni 231.604	1673.59	1671.83	1670.27
Pb 220.353	-2.2280u	2.8582	1.0163
Sb 206.834	-6.6541u	-3.7394u	-2.0749u
Se 196.026	6.4381	14.5273	17.8182
Sn 189.925	-2.4857u	-1.5237u	-2.5727u
Sr 216.596	370.124	369.878	370.272
Ti 334.941	0.7579	0.8604	0.8092

Label	Replicates Concentration		
Tl 190.794	-0.8570u	-6.2203u	-1.3538u
V 292.401	78.5398	78.3941	77.9410
Zn 206.200	2442.15	2430.41	2441.72

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6257b	ppb	0.2271	36.3	-94.6068
Al 308.215	72457.0b	ppb	105.157	0.1	477409
As 188.980	18.4270b	ppb	4.5884	24.9	5.8370
B 249.678	437.187b	ppb	1.2784	0.3	7049.99
Ba 389.178	3.9683b	ppb	0.4916	12.4	200.938
Be 313.042	7.0135b	ppb	0.0051	0.1	13100.4
Ca 370.602	544331b	ppb	697.0	0.1	1457686
Cd 226.502	28.7658b	ppb	0.1416	0.5	1588.70
Co 228.615	619.271b	ppb	1.8751	0.3	7438.37
Cr 267.716	38.3629b	ppb	0.0523	0.1	2152.41
Cu 324.754	71.2382b	ppb	0.8662	1.2	5014.41
Fe 271.441	56504.2b	ppb	62.2511	0.1	90842.2
K 766.491	46986.9xb	ppb	60.5616	0.1	1889017
Mg 279.078	53021.3b	ppb	20.1928	0.0	143918
Mn 257.610	2639.48b	ppb	0.8321	0.0	553035
Mo 202.032	-0.3750b	ppb	0.3945	105.2	4.5220
Na 330.237	122497xb	ppb	151.057	0.1	5342.09
Ni 231.604	1671.90b	ppb	1.6621	0.1	5314.86
Pb 220.353	0.5488b	ppb	2.5751	469.2	16.7486
Sb 206.834	-4.1561b	ppb	2.3179	55.8	-9.2663
Se 196.026	12.9279b	ppb	5.8562	45.3	11.3155
Sn 189.925	-2.1941b	ppb	0.5822	26.5	-6.9803
Sr 216.596	370.091b	ppb	0.1990	0.1	4972.81
Ti 334.941	0.8092b	ppb	0.0512	6.3	335.147
Tl 190.794	-2.8103b	ppb	2.9636	105.5	-16.4102
V 292.401	78.2916b	ppb	0.3123	0.4	1960.51
Zn 206.200	2438.09b	ppb	6.6572	0.3	2872.89

Cont Calib Verif (CCV) **11/14/2014, 9:41:56 PM** **Rack 2, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	496.763	493.364	490.149
Al 308.215	4966.28	4932.85	4922.87
As 188.980	465.512	459.563	455.989
B 249.678	514.773	513.353	515.192
Ba 389.178	4668.92	4631.94	4628.44
Be 313.042	517.263	513.949	511.471
Ca 370.602	4740	4667	4676
Cd 226.502	489.711	484.824	486.419
Co 228.615	498.032	493.192	495.404
Cr 267.716	5066.97	5024.30	5025.32
Cu 324.754	5031.59	5100.10	5040.51
Fe 271.441	4967.20	4936.23	4935.20
K 766.491	10151.2	10078.5	10061.2
Mg 279.078	4996.04	4964.92	4964.68
Mn 257.610	5045.70	4990.65	5008.14
Mo 202.032	479.205	476.042	478.232
Na 330.237	7653.55	7616.86	7655.97

Label	Replicates Concentration		
Ni 231.604	2467.41	2445.27	2448.60
Pb 220.353	478.943	472.827	478.027
Sb 206.834	897.964	895.604	894.999
Se 196.026	4995.95	4945.76	4955.55
Sn 189.925	4740.26	4706.43	4734.84
Sr 216.596	2436.11	2422.31	2424.70
Ti 334.941	484.258	479.864	478.440
Tl 190.794	4849.35	4811.12	4807.61
V 292.401	4887.38	4840.53	4828.56
Zn 206.200	2540.29	2511.86	2520.57

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	493.425	ppb	3.3076	0.7	39584.0	98.68504
Al 308.215	4940.67	ppb	22.7392	0.5	33597.7	98.81332
As 188.980	460.355	ppb	4.8107	1.0	300.632	92.07094
B 249.678	514.439	ppb	0.9639	0.2	8440.28	102.88784
Ba 389.178	4643.10	ppb	22.4308	0.5	102009	92.86200
Be 313.042	514.228	ppb	2.9059	0.6	969461	102.84558
Ca 370.602	4694	ppb	39.77	0.8	12907	93.88574
Cd 226.502	486.984	ppb	2.4921	0.5	21855.8	97.39687
Co 228.615	495.543	ppb	2.4228	0.5	5955.02	99.10854
Cr 267.716	5038.86	ppb	24.3496	0.5	273214	100.77723
Cu 324.754	5057.40	ppb	37.2455	0.7	340966	101.14805
Fe 271.441	4946.21	ppb	18.1864	0.4	8058.97	98.92414
K 766.491	10097.0	ppb	47.7547	0.5	406109	100.96980
Mg 279.078	4975.21	ppb	18.0374	0.4	13427.8	99.50426
Mn 257.610	5014.83	ppb	28.1242	0.6	1049642	100.29661
Mo 202.032	477.826	ppb	1.6203	0.3	3210.14	95.56528
Na 330.237	7642.13	ppb	21.9155	0.3	314.868	101.89506
Ni 231.604	2453.76	ppb	11.9364	0.5	7797.39	98.15037
Pb 220.353	476.599	ppb	3.2985	0.7	797.430	95.31980
Sb 206.834	896.189	ppb	1.5669	0.2	1293.27	89.61887Q
Se 196.026	4965.76	ppb	26.6063	0.5	2241.63	99.31512
Sn 189.925	4727.18	ppb	18.1714	0.4	3585.79	94.54353
Sr 216.596	2427.70	ppb	7.3765	0.3	30859.9	97.10819
Ti 334.941	480.854	ppb	3.0324	0.6	140062	96.17082
Tl 190.794	4822.69	ppb	23.1532	0.5	5067.71	96.45389
V 292.401	4852.16	ppb	31.0867	0.6	123760	97.04321
Zn 206.200	2524.24	ppb	14.5638	0.6	2965.38	100.96955

Cont Calib Blank (CCB) **11/14/2014, 9:46:11 PM** **Rack 2, Tube 26**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2926	0.0001u	0.0724
Al 308.215	3.1826	3.5067	3.6750
As 188.980	3.9660	0.6369	5.5852
B 249.678	13.8851	11.8645	10.9082
Ba 389.178	0.0795	0.4658	-0.3891u
Be 313.042	0.0278	0.0361	0.0338
Ca 370.602	3.079	10.69	5.276
Cd 226.502	0.0646	0.1929	0.3569
Co 228.615	-0.5778u	0.1466	0.0752
Cr 267.716	0.3048	0.3455	0.3429

Label	Replicates Concentration		
Cu 324.754	0.6752	0.1783	0.2959
Fe 271.441	9.7416	6.5366	8.6977
K 766.491	5.0785	4.5636	4.4265
Mg 279.078	-0.2531u	2.5902	3.3384
Mn 257.610	0.3879	0.3510	0.3879
Mo 202.032	0.2592	0.1426	0.5769
Na 330.237	183.257	-125.697u	12.3835
Ni 231.604	0.2606	0.1480	0.8490
Pb 220.353	-0.3000u	-0.8792u	-0.2913u
Sb 206.834	2.9280	3.5165	7.8351
Se 196.026	0.1325	-0.9287u	7.0964
Sn 189.925	0.8990	0.6407	0.7965
Sr 216.596	0.2534	0.6653	0.8602
Ti 334.941	0.0769	0.0557	0.0722
Tl 190.794	-2.1408u	-0.8127u	3.1353
V 292.401	0.4804	0.2474	0.5235
Zn 206.200	0.2672	2.3668	0.4835

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1217	ppb	0.1524	125.2	-24.6191	0.12171
Al 308.215	3.4548	ppb	0.2503	7.2	466.211	3.45476
As 188.980	3.3960	ppb	2.5229	74.3	-3.8133	3.39604
B 249.678	12.2193	ppb	1.5199	12.4	241.544	12.21927
Ba 389.178	0.0521	ppb	0.4281	821.9	-36.5426	0.05209
Be 313.042	0.0325	ppb	0.0043	13.2	-254.097	0.03254
Ca 370.602	6.347	ppb	3.915	61.7	39.62	6.34722
Cd 226.502	0.2048	ppb	0.1465	71.5	39.2834	0.20482
Co 228.615	-0.1187	ppb	0.3992	336.4	-0.8248	-0.11866
Cr 267.716	0.3311	ppb	0.0228	6.9	48.4335	0.33106
Cu 324.754	0.3831	ppb	0.2597	67.8	218.174	0.38314
Fe 271.441	8.3253	ppb	1.6347	19.6	28.0555	8.32531
K 766.491	4.6895	ppb	0.3437	7.3	417.140	4.68954
Mg 279.078	1.8918	ppb	1.8949	100.2	28.1199	1.89183
Mn 257.610	0.3756	ppb	0.0213	5.7	155.225	0.37557
Mo 202.032	0.3262	ppb	0.2248	68.9	11.9156	0.32623
Na 330.237	23.3147	ppb	154.767	663.8	30.4400	23.31471
Ni 231.604	0.4192	ppb	0.3764	89.8	-4.7621	0.41921
Pb 220.353	-0.4902	ppb	0.3370	68.7	11.7836	-0.49016
Sb 206.834	4.7599	ppb	2.6794	56.3	1.5706	4.75987
Se 196.026	2.1001	ppb	4.3593	207.6	5.3454	2.10009
Sn 189.925	0.7788	ppb	0.1301	16.7	-4.7601	0.77875
Sr 216.596	0.5930	ppb	0.3098	52.2	12.4876	0.59295
Ti 334.941	0.0682	ppb	0.0111	16.3	24.6946	0.06823
Tl 190.794	0.0606	ppb	2.7443	4527.9	-8.0101	0.06061
V 292.401	0.4171	ppb	0.1485	35.6	-8.9279	0.41707
Zn 206.200	1.0392	ppb	1.1548	111.1	1.5970	1.03918

680-107213-a-1-a (Samp) **11/14/2014, 9:50:27 PM** **Rack 2, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2959	0.1439	0.0409u
Al 308.215	303.615	301.542	298.284
As 188.980	-0.8067u	0.4961	-1.0847u

Label	Replicates Concentration		
B 249.678	1145.70	1149.54	1151.47
Ba 389.178	36.4607	35.7026	35.6193
Be 313.042	0.1641	0.1559	0.1617
Ca 370.602	34083	33959	33920
Cd 226.502	0.1149	0.0705	0.1091
Co 228.615	-0.0241u	-0.4469u	-0.0603u
Cr 267.716	10.7674	10.4629	10.6247
Cu 324.754	1.9025	1.8353	1.8544
Fe 271.441	783.312	777.125	778.056
K 766.491	12692.4	12668.7	12665.8
Mg 279.078	33766.8	33716.0	33682.8
Mn 257.610	74.2891	74.2416	74.3277
Mo 202.032	20.1556	19.9251	20.4514
Na 330.237	501300x	501134x	502164x
Ni 231.604	30.0753	28.3353	30.8783
Pb 220.353	2.8916	5.1568	0.3893
Sb 206.834	4.2765	4.7144	-0.2033u
Se 196.026	15.4482	10.5756	8.9887
Sn 189.925	-4.2181u	-0.8575u	0.4907
Sr 216.596	159.496	158.944	158.249
Ti 334.941	10.4080	10.0243	10.1360
Tl 190.794	-3.5352u	-5.0013u	0.5968
V 292.401	775.437	775.381	772.949
Zn 206.200	7.7056	8.0522	7.8473

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1602b	ppb	0.1283	80.1	-25.3247
Al 308.215	301.147b	ppb	2.6870	0.9	2525.69
As 188.980	-0.4651b	ppb	0.8440	181.4	-6.3980
B 249.678	1148.90b	ppb	2.9364	0.3	18792.0
Ba 389.178	35.9275b	ppb	0.4636	1.3	823.150
Be 313.042	0.1606b	ppb	0.0042	2.6	-17.9806
Ca 370.602	33988b	ppb	85.42	0.3	91073
Cd 226.502	0.0982b	ppb	0.0241	24.5	35.5135
Co 228.615	-0.1771b	ppb	0.2343	132.3	-1.7795
Cr 267.716	10.6183b	ppb	0.1524	1.4	608.446
Cu 324.754	1.8641b	ppb	0.0346	1.9	308.739
Fe 271.441	779.498b	ppb	3.3357	0.4	1271.89
K 766.491	12675.6b	ppb	14.6079	0.1	509767
Mg 279.078	33721.9b	ppb	42.2793	0.1	91591.4
Mn 257.610	74.2862b	ppb	0.0431	0.1	15874.2
Mo 202.032	20.1774b	ppb	0.2638	1.3	144.244
Na 330.237	501532xb	ppb	552.850	0.1	22023.5
Ni 231.604	29.7630b	ppb	1.3000	4.4	88.6363
Pb 220.353	2.8126b	ppb	2.3847	84.8	17.2289
Sb 206.834	2.9292b	ppb	2.7216	92.9	-1.1623
Se 196.026	11.6708b	ppb	3.3662	28.8	9.6788
Sn 189.925	-1.5283b	ppb	2.4251	158.7	-6.3557
Sr 216.596	158.897b	ppb	0.6248	0.4	2043.03
Ti 334.941	10.1895b	ppb	0.1973	1.9	2993.15
Tl 190.794	-2.6466b	ppb	2.9029	109.7	-9.7984
V 292.401	774.589b	ppb	1.4207	0.2	19780.9
Zn 206.200	7.8684b	ppb	0.1742	2.2	9.5966

680-107223-b-1-a (Samp) **11/14/2014, 9:54:43 PM** **Rack 2, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1172u	-0.1038u	0.1778
Al 308.215	191.324	190.746	190.268
As 188.980	-0.9954u	1.2274	0.1726
B 249.678	43.6955	40.9854	39.1039
Ba 389.178	118.618	118.155	118.041
Be 313.042	0.1377	0.1415	0.1461
Ca 370.602	1819	1819	1825
Cd 226.502	0.1173	0.0047	0.0848
Co 228.615	3.1482	2.5018	2.4954
Cr 267.716	0.1031	0.2621	0.1439
Cu 324.754	0.6193	0.6785	0.3088
Fe 271.441	-0.5264u	2.9269	1.2834
K 766.491	981.329	981.753	977.889
Mg 279.078	1616.63	1622.93	1615.62
Mn 257.610	46.5074	46.3319	46.1475
Mo 202.032	-0.4595u	-0.0515u	-0.4821u
Na 330.237	9834.18	10006.9	9963.96
Ni 231.604	1.9990	1.8296	2.0066
Pb 220.353	-0.7266u	1.8304	1.3601
Sb 206.834	1.3819	1.4212	0.2263
Se 196.026	4.8972	0.6594	6.7968
Sn 189.925	-1.7105u	-1.4476u	-1.6245u
Sr 216.596	17.6781	17.4935	17.9986
Ti 334.941	-0.1136u	-0.0466u	-0.1434u
Tl 190.794	0.6467	-0.3919u	0.5759
V 292.401	0.7976	0.2502	0.6745
Zn 206.200	6.1092	4.8696	5.4306

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0144	ppb	0.1666	1158.6	-35.9200
Al 308.215	190.779	ppb	0.5287	0.3	1699.25
As 188.980	0.1349	ppb	1.1119	824.5	-5.9870
B 249.678	41.2616	ppb	2.3082	5.6	715.515
Ba 389.178	118.271	ppb	0.3055	0.3	2564.34
Be 313.042	0.1417	ppb	0.0042	3.0	-48.6786
Ca 370.602	1821	ppb	3.390	0.2	4902
Cd 226.502	0.0689	ppb	0.0579	84.0	33.1454
Co 228.615	2.7151	ppb	0.3751	13.8	33.2078
Cr 267.716	0.1697	ppb	0.0826	48.7	40.1008
Cu 324.754	0.5355	ppb	0.1986	37.1	228.419
Fe 271.441	1.2280	ppb	1.7273	140.7	16.9790
K 766.491	980.324	ppb	2.1190	0.2	39635.9
Mg 279.078	1618.39	ppb	3.9644	0.2	4416.63
Mn 257.610	46.3290	ppb	0.1800	0.4	9784.42
Mo 202.032	-0.3310	ppb	0.2424	73.2	7.5062
Na 330.237	9935.01	ppb	89.9256	0.9	465.020
Ni 231.604	1.9451	ppb	0.1001	5.1	0.0838
Pb 220.353	0.8213	ppb	1.3610	165.7	13.9378
Sb 206.834	1.0098	ppb	0.6788	67.2	-3.6148
Se 196.026	4.1178	ppb	3.1421	76.3	6.2643
Sn 189.925	-1.5942	ppb	0.1341	8.4	-6.5597
Sr 216.596	17.7234	ppb	0.2556	1.4	231.411

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	-0.1012	ppb	0.0496	49.0	-22.5339
Tl 190.794	0.2769	ppb	0.5803	209.5	-7.7504
V 292.401	0.5741	ppb	0.2872	50.0	-4.8392
Zn 206.200	5.4698	ppb	0.6207	11.3	6.8216

680-107223-b-2-a (Samp) **11/14/2014, 9:58:58 PM** **Rack 2, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2061u	0.1113	0.1309
Al 308.215	82.7031	83.4478	83.3328
As 188.980	-3.6911u	-1.7952u	-0.7795u
B 249.678	15.6208	16.0569	15.3781
Ba 389.178	47.8546	48.4551	48.3517
Be 313.042	0.0321	0.0332	0.0378
Ca 370.602	350.1	344.4	356.1
Cd 226.502	0.1365	0.0234	-0.0422u
Co 228.615	0.7983	1.2382	1.3856
Cr 267.716	0.2389	-0.0123u	0.3390
Cu 324.754	-0.1022u	0.1084	0.2279
Fe 271.441	124.397	121.389	117.289
K 766.491	672.215	676.846	678.189
Mg 279.078	729.749	738.377	739.076
Mn 257.610	12.7045	12.6884	12.6868
Mo 202.032	-0.5491u	-0.6489u	0.0424
Na 330.237	4388.81	4326.82	4197.14
Ni 231.604	2.1071	1.9225	3.0430
Pb 220.353	1.1438	-1.4388u	2.0694
Sb 206.834	-2.0334u	-2.7187u	1.6497
Se 196.026	1.6034	-2.1617u	-2.9348u
Sn 189.925	-2.0661u	1.2857	-0.9980u
Sr 216.596	7.8233	7.5312	7.3213
Ti 334.941	-0.1356u	-0.1255u	-0.1542u
Tl 190.794	-1.6320u	2.7691	-4.3898u
V 292.401	0.2439	0.2764	0.2233
Zn 206.200	6.5528	4.0218	4.9878

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0120	ppb	0.1892	1576.1	-33.6354
Al 308.215	83.1612	ppb	0.4009	0.5	990.839
As 188.980	-2.0886	ppb	1.4778	70.8	-7.4700
B 249.678	15.6853	ppb	0.3439	2.2	297.789
Ba 389.178	48.2205	ppb	0.3211	0.7	1023.43
Be 313.042	0.0344	ppb	0.0030	8.8	-250.978
Ca 370.602	350.2	ppb	5.863	1.7	959.8
Cd 226.502	0.0393	ppb	0.0904	230.2	32.4028
Co 228.615	1.1407	ppb	0.3056	26.8	14.3197
Cr 267.716	0.1885	ppb	0.1810	96.0	40.9065
Cu 324.754	0.0780	ppb	0.1671	214.2	197.631
Fe 271.441	121.025	ppb	3.5682	2.9	209.200
K 766.491	675.750	ppb	3.1344	0.5	27392.5
Mg 279.078	735.734	ppb	5.1948	0.7	2020.55
Mn 257.610	12.6932	ppb	0.0098	0.1	2738.85
Mo 202.032	-0.3852	ppb	0.3737	97.0	7.1374

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	4304.25	ppb	97.8079	2.3	218.071
Ni 231.604	2.3575	ppb	0.6008	25.5	1.4099
Pb 220.353	0.5915	ppb	1.8181	307.4	13.5649
Sb 206.834	-1.0341	ppb	2.3494	227.2	-6.4403
Se 196.026	-1.1644	ppb	2.4279	208.5	3.8792
Sn 189.925	-0.5928	ppb	1.7122	288.8	-5.8007
Sr 216.596	7.5586	ppb	0.2521	3.3	101.484
Ti 334.941	-0.1384	ppb	0.0146	10.5	-34.5057
Tl 190.794	-1.0842	ppb	3.6107	333.0	-9.2187
V 292.401	0.2479	ppb	0.0267	10.8	-13.1635
Zn 206.200	5.1874	ppb	1.2773	24.6	6.4841

680-107223-b-3-a (Samp) **11/14/2014, 10:03:14 PM** **Rack 2, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0678u	0.1952	0.3732
Al 308.215	127.135	125.431	124.758
As 188.980	4.5471	-0.3003u	-2.5680u
B 249.678	17.7219	18.0021	18.0619
Ba 389.178	78.4118	76.3636	77.2905
Be 313.042	0.0736	0.0793	0.0712
Ca 370.602	971.7	954.2	963.7
Cd 226.502	0.1132	-0.0454u	0.1233
Co 228.615	1.5518	1.5205	1.6388
Cr 267.716	0.2597	0.3040	0.0774
Cu 324.754	0.4475	0.4693	0.1246
Fe 271.441	39.6932	32.1966	38.5266
K 766.491	815.375	806.305	803.893
Mg 279.078	1105.77	1091.60	1099.00
Mn 257.610	26.8767	26.6366	26.5661
Mo 202.032	-0.5677u	-0.3712u	-0.4951u
Na 330.237	6599.07	6533.07	6380.86
Ni 231.604	1.1175	1.7300	2.8994
Pb 220.353	-0.1389u	1.8465	0.6067
Sb 206.834	1.1476	-2.2887u	0.1616
Se 196.026	10.6401	2.7552	4.8682
Sn 189.925	-0.8235u	-1.2419u	0.7073
Sr 216.596	11.7458	11.7189	11.7441
Ti 334.941	-0.1356u	-0.0128u	-0.1266u
Tl 190.794	-2.1562u	1.5115	-1.5569u
V 292.401	-0.0029u	0.2326	0.3629
Zn 206.200	5.4071	5.4823	4.4955

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1669	ppb	0.2218	132.9	-21.2406
Al 308.215	125.775	ppb	1.2250	1.0	1271.34
As 188.980	0.5596	ppb	3.6347	649.5	-5.7041
B 249.678	17.9286	ppb	0.1815	1.0	334.584
Ba 389.178	77.3553	ppb	1.0256	1.3	1664.28
Be 313.042	0.0747	ppb	0.0041	5.6	-175.003
Ca 370.602	963.2	ppb	8.735	0.9	2603
Cd 226.502	0.0637	ppb	0.0946	148.5	33.0818
Co 228.615	1.5704	ppb	0.0613	3.9	19.4709

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.2137	ppb	0.1201	56.2	42.3441
Cu 324.754	0.3471	ppb	0.1930	55.6	215.735
Fe 271.441	36.8055	ppb	4.0338	11.0	73.9934
K 766.491	808.524	ppb	6.0542	0.7	32729.8
Mg 279.078	1098.79	ppb	7.0875	0.6	3006.10
Mn 257.610	26.6932	ppb	0.1629	0.6	5671.25
Mo 202.032	-0.4780	ppb	0.0993	20.8	6.5189
Na 330.237	6504.33	ppb	111.905	1.7	314.575
Ni 231.604	1.9156	ppb	0.9054	47.3	-0.0044
Pb 220.353	0.7715	ppb	1.0029	130.0	13.8558
Sb 206.834	-0.3265	ppb	1.7694	541.9	-5.4618
Se 196.026	6.0878	ppb	4.0815	67.0	7.1472
Sn 189.925	-0.4527	ppb	1.0262	226.7	-5.6936
Sr 216.596	11.7363	ppb	0.0150	0.1	154.834
Ti 334.941	-0.0917	ppb	0.0684	74.6	-20.4242
Tl 190.794	-0.7339	ppb	1.9675	268.1	-8.8296
V 292.401	0.1976	ppb	0.1854	93.8	-14.4394
Zn 206.200	5.1283	ppb	0.5493	10.7	6.4176

680-107223-b-4-a (Samp) **11/14/2014, 10:07:30 PM** **Rack 2, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0978u	0.1780	0.1257
Al 308.215	120.347	121.240	121.870
As 188.980	1.5156	5.5424	2.5728
B 249.678	15.8255	16.0062	16.0985
Ba 389.178	74.9653	74.0752	73.5958
Be 313.042	0.0740	0.0730	0.0792
Ca 370.602	922.9	925.8	920.3
Cd 226.502	0.0827	0.0489	0.1423
Co 228.615	1.2830	1.3534	1.3557
Cr 267.716	0.0875	0.4355	0.2710
Cu 324.754	30.6518	30.3846	30.1468
Fe 271.441	36.9616	40.7491	38.1300
K 766.491	774.316	773.013	770.896
Mg 279.078	1064.91	1057.85	1048.49
Mn 257.610	25.7690	25.5879	25.7225
Mo 202.032	-0.8317u	-0.5437u	-0.5379u
Na 330.237	6398.91	6274.99	6102.41
Ni 231.604	1.6795	0.2946	3.0316
Pb 220.353	1.1349	4.0214	0.3513
Sb 206.834	3.2632	0.2785	-0.2166u
Se 196.026	2.2162	-6.2065u	-3.1981u
Sn 189.925	-3.5038u	-2.4417u	-3.2565u
Sr 216.596	11.1863	11.3668	11.7602
Ti 334.941	-0.0917u	-0.1124u	-0.1071u
Tl 190.794	-4.5796u	-0.5214u	-1.6389u
V 292.401	0.6006	0.1119	0.6606
Zn 206.200	21.0468	19.7495	21.1360

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0686	ppb	0.1465	213.5	-29.1299
Al 308.215	121.152	ppb	0.7656	0.6	1240.94

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	3.2102	ppb	2.0877	65.0	-3.9371
B 249.678	15.9767	ppb	0.1388	0.9	302.744
Ba 389.178	74.2121	ppb	0.6949	0.9	1595.13
Be 313.042	0.0754	ppb	0.0033	4.4	-173.594
Ca 370.602	923.0	ppb	2.742	0.3	2495
Cd 226.502	0.0913	ppb	0.0473	51.8	34.3376
Co 228.615	1.3307	ppb	0.0413	3.1	16.5991
Cr 267.716	0.2647	ppb	0.1741	65.8	45.0952
Cu 324.754	30.3944	ppb	0.2526	0.8	2240.61
Fe 271.441	38.6136	ppb	1.9395	5.0	76.8758
K 766.491	772.742	ppb	1.7260	0.2	31291.4
Mg 279.078	1057.08	ppb	8.2403	0.8	2892.88
Mn 257.610	25.6931	ppb	0.0940	0.4	5461.64
Mo 202.032	-0.6378	ppb	0.1680	26.3	5.4465
Na 330.237	6258.77	ppb	148.914	2.4	303.496
Ni 231.604	1.6685	ppb	1.3685	82.0	-0.7893
Pb 220.353	1.8359	ppb	1.9329	105.3	15.5991
Sb 206.834	1.1084	ppb	1.8825	169.8	-3.4725
Se 196.026	-2.3961	ppb	4.2682	178.1	3.3267
Sn 189.925	-3.0673	ppb	0.5558	18.1	-7.6800
Sr 216.596	11.4378	ppb	0.2935	2.6	151.045
Ti 334.941	-0.1037	ppb	0.0107	10.4	-24.0025
Tl 190.794	-2.2466	ppb	2.0963	93.3	-10.4199
V 292.401	0.4577	ppb	0.3010	65.8	-7.7671
Zn 206.200	20.6441	ppb	0.7761	3.8	24.7120

680-107223-b-6-a (Samp) **11/14/2014, 10:11:46 PM** **Rack 2, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0016u	0.0557	-0.0964u
Al 308.215	129.886	127.760	129.085
As 188.980	-1.2999u	-2.7339u	-4.4680u
B 249.678	16.1214	16.5626	16.6762
Ba 389.178	78.0144	77.8730	77.6621
Be 313.042	0.0807	0.0864	0.0877
Ca 370.602	979.0	964.7	967.1
Cd 226.502	0.0422	0.2814	0.1697
Co 228.615	1.7599	1.7781	1.0040
Cr 267.716	0.4139	0.3537	0.1273
Cu 324.754	38.0636	38.0716	37.9044
Fe 271.441	41.3958	39.4777	45.4727
K 766.491	807.237	807.114	807.010
Mg 279.078	1108.29	1112.93	1113.84
Mn 257.610	26.9634	27.0609	27.1689
Mo 202.032	0.6132	0.1507	-0.5900u
Na 330.237	6786.22	6529.94	6643.91
Ni 231.604	2.0014	1.4165	3.3428
Pb 220.353	2.2725	2.8147	2.3816
Sb 206.834	1.0866	3.3060	-1.8725u
Se 196.026	-0.5864u	1.7186	0.2213
Sn 189.925	-3.2117u	-1.9316u	1.8807
Sr 216.596	11.7314	11.8603	12.5496
Ti 334.941	-0.1197u	-0.1218u	-0.1105u

Label	Replicates Concentration		
Tl 190.794	-2.6478u	-0.2409u	-3.0260u
V 292.401	0.4319	0.0474	-0.0087u
Zn 206.200	25.1162	25.6275	24.8314

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0141	ppb	0.0768	544.7	-35.8000
Al 308.215	128.910	ppb	1.0736	0.8	1291.97
As 188.980	-2.8339	ppb	1.5864	56.0	-7.9664
B 249.678	16.4534	ppb	0.2930	1.8	310.491
Ba 389.178	77.8499	ppb	0.1773	0.2	1675.17
Be 313.042	0.0849	ppb	0.0037	4.4	-155.728
Ca 370.602	970.2	ppb	7.662	0.8	2622
Cd 226.502	0.1644	ppb	0.1197	72.8	37.6140
Co 228.615	1.5140	ppb	0.4418	29.2	18.7827
Cr 267.716	0.2983	ppb	0.1511	50.7	46.9359
Cu 324.754	38.0132	ppb	0.0943	0.2	2754.07
Fe 271.441	42.1154	ppb	3.0616	7.3	82.5174
K 766.491	807.120	ppb	0.1137	0.0	32673.4
Mg 279.078	1111.69	ppb	2.9808	0.3	3041.12
Mn 257.610	27.0644	ppb	0.1028	0.4	5749.04
Mo 202.032	0.0579	ppb	0.6069	1047.7	10.1144
Na 330.237	6653.36	ppb	128.397	1.9	320.719
Ni 231.604	2.2536	ppb	0.9876	43.8	1.0711
Pb 220.353	2.4896	ppb	0.2868	11.5	16.6687
Sb 206.834	0.8400	ppb	2.5980	309.3	-3.8527
Se 196.026	0.4511	ppb	1.1696	259.2	4.6092
Sn 189.925	-1.0875	ppb	2.6491	243.6	-6.1758
Sr 216.596	12.0471	ppb	0.4399	3.7	158.801
Ti 334.941	-0.1173	ppb	0.0060	5.1	-27.8862
Tl 190.794	-1.9715	ppb	1.5107	76.6	-10.1322
V 292.401	0.1569	ppb	0.2398	152.9	-15.5648
Zn 206.200	25.1917	ppb	0.4034	1.6	30.0741

CRI (Samp) **11/14/2014, 10:16:03 PM** **Rack 2, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.1410	10.2815	10.6788
Al 308.215	205.773	205.487	207.349
As 188.980	20.3414	16.8444	19.7467
B 249.678	105.169	106.927	106.350
Ba 389.178	9.3344	9.2464	8.3256
Be 313.042	4.3662	4.4053	4.3821
Ca 370.602	485.9	489.1	489.3
Cd 226.502	4.9655	5.0494	5.0316
Co 228.615	9.8577	9.8146	9.9812
Cr 267.716	10.2119	10.5838	10.6472
Cu 324.754	21.0543	20.6108	21.2697
Fe 271.441	50.9664	56.2738	58.8190
K 766.491	1017.62	1030.43	1019.22
Mg 279.078	523.291	528.511	525.308
Mn 257.610	10.7403	10.8221	10.6301
Mo 202.032	9.5540	9.3677	9.1193
Na 330.237	999.826	1064.57	1145.19

Label	Replicates Concentration		
Ni 231.604	40.4894	40.5911	42.4023
Pb 220.353	10.0816	8.9481	9.6318
Sb 206.834	20.2290	21.9945	20.7580
Se 196.026	15.4783	24.2630	22.5916
Sn 189.925	50.5918	47.4358	50.9673
Sr 216.596	9.9837	10.0634	9.7966
Ti 334.941	9.9127	10.1194	9.9905
Tl 190.794	22.3013	24.9137	27.1934
V 292.401	11.1066	11.2619	11.1783
Zn 206.200	22.0793	23.1494	23.2542

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.3671	ppb	0.2790	2.7	798.671
Al 308.215	206.203	ppb	1.0026	0.5	1802.35
As 188.980	18.9775	ppb	1.8711	9.9	6.5705
B 249.678	106.149	ppb	0.8959	0.8	1774.74
Ba 389.178	8.9688	ppb	0.5588	6.2	160.554
Be 313.042	4.3846	ppb	0.0197	0.4	7950.88
Ca 370.602	488.1	ppb	1.892	0.4	1334
Cd 226.502	5.0155	ppb	0.0442	0.9	254.893
Co 228.615	9.8845	ppb	0.0865	0.9	119.204
Cr 267.716	10.4810	ppb	0.2351	2.2	598.723
Cu 324.754	20.9783	ppb	0.3360	1.6	1606.29
Fe 271.441	55.3531	ppb	4.0064	7.2	104.857
K 766.491	1022.42	ppb	6.9787	0.7	41328.2
Mg 279.078	525.703	ppb	2.6320	0.5	1450.21
Mn 257.610	10.7309	ppb	0.0964	0.9	2326.43
Mo 202.032	9.3470	ppb	0.2181	2.3	72.4232
Na 330.237	1069.86	ppb	72.8282	6.8	75.9113
Ni 231.604	41.1609	ppb	1.0763	2.6	124.798
Pb 220.353	9.5538	ppb	0.5708	6.0	28.2177
Sb 206.834	20.9938	ppb	0.9061	4.3	24.0444
Se 196.026	20.7776	ppb	4.6648	22.5	13.7586
Sn 189.925	49.6650	ppb	1.9396	3.9	32.3780
Sr 216.596	9.9479	ppb	0.1370	1.4	130.608
Ti 334.941	10.0075	ppb	0.1044	1.0	2920.36
Tl 190.794	24.8028	ppb	2.4479	9.9	17.9954
V 292.401	11.1823	ppb	0.0777	0.7	264.268
Zn 206.200	22.8276	ppb	0.6502	2.8	27.2635

mb 680-358703/1-a (Samp) **11/14/2014, 10:20:19 PM** **Rack 2, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0570u	0.0476	-0.2390u
Al 308.215	4.9563	6.0654	8.1798
As 188.980	1.4239	0.5109	-3.3823u
B 249.678	3.8560	3.5038	3.5145
Ba 389.178	-0.1967u	-1.4191u	-1.5189u
Be 313.042	0.0060	0.0101	0.0047
Ca 370.602	-4.147u	4.645	1.398
Cd 226.502	0.0373	0.1000	0.1575
Co 228.615	0.0523	-0.8624u	0.0016
Cr 267.716	0.5480	0.3365	0.2968

Label	Replicates Concentration		
Cu 324.754	0.2430	0.1457	0.3483
Fe 271.441	1.0305	7.2424	3.4782
K 766.491	2.3318	2.1602	2.5666
Mg 279.078	4.9884	3.0089	5.5451
Mn 257.610	0.0766	0.1170	0.1360
Mo 202.032	-0.4831u	-0.3736u	-0.7616u
Na 330.237	26.2094	-146.684u	101.152
Ni 231.604	0.3613	-0.1642u	0.3765
Pb 220.353	1.9605	2.3488	-1.0284u
Sb 206.834	3.7534	1.1531	-1.4818u
Se 196.026	-2.6317u	2.2711	5.1857
Sn 189.925	-3.7600u	-3.2582u	1.4909
Sr 216.596	0.6304	0.4584	-0.1178u
Ti 334.941	-0.1193u	-0.1187u	-0.1310u
Tl 190.794	0.5541	-3.0110u	-0.1351u
V 292.401	0.3214	0.0755	0.0022
Zn 206.200	11.2223	12.0316	10.7170

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0828	ppb	0.1450	175.2	-41.0461
Al 308.215	6.4005	ppb	1.6377	25.6	485.543
As 188.980	-0.4825	ppb	2.5525	529.0	-6.3986
B 249.678	3.6247	ppb	0.2003	5.5	101.220
Ba 389.178	-1.0449	ppb	0.7363	70.5	-60.6417
Be 313.042	0.0069	ppb	0.0028	41.0	-302.297
Ca 370.602	0.6320	ppb	4.446	703.4	24.18
Cd 226.502	0.0983	ppb	0.0601	61.2	34.5366
Co 228.615	-0.2695	ppb	0.5141	190.7	-2.6146
Cr 267.716	0.3938	ppb	0.1350	34.3	51.8406
Cu 324.754	0.2457	ppb	0.1013	41.2	208.888
Fe 271.441	3.9170	ppb	3.1291	79.9	20.9494
K 766.491	2.3528	ppb	0.2040	8.7	323.209
Mg 279.078	4.5141	ppb	1.3330	29.5	35.2460
Mn 257.610	0.1098	ppb	0.0304	27.6	99.6469
Mo 202.032	-0.5394	ppb	0.2001	37.1	6.1078
Na 330.237	-6.4408	ppb	127.103	1973.4	28.9203
Ni 231.604	0.1912	ppb	0.3079	161.0	-5.4862
Pb 220.353	1.0936	ppb	1.8480	169.0	14.3785
Sb 206.834	1.1416	ppb	2.6176	229.3	-3.4267
Se 196.026	1.6084	ppb	3.9506	245.6	5.1239
Sn 189.925	-1.8424	ppb	2.8976	157.3	-6.7513
Sr 216.596	0.3237	ppb	0.3919	121.1	9.0845
Ti 334.941	-0.1230	ppb	0.0069	5.6	-31.0025
Tl 190.794	-0.8640	ppb	1.8911	218.9	-8.9808
V 292.401	0.1330	ppb	0.1672	125.7	-16.0483
Zn 206.200	11.3236	ppb	0.6632	5.9	13.7230

lcs 680-358703/2-a (Samp) **11/14/2014, 10:24:36 PM** **Rack 2, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.7514	52.9720	52.5081
Al 308.215	5116.97	5089.15	5095.28
As 188.980	99.6407	95.7888	100.473

Label	Replicates Concentration		
B 249.678	209.308	209.712	210.668
Ba 389.178	93.6773	92.8169	93.5455
Be 313.042	54.5122	54.2943	54.1670
Ca 370.602	4777	4765	4787
Cd 226.502	50.4902	50.6329	50.7861
Co 228.615	50.6401	50.5652	51.1050
Cr 267.716	106.694	105.845	105.967
Cu 324.754	103.958	103.502	103.262
Fe 271.441	5105.94	5095.85	5076.63
K 766.491	5024.41	5001.03	4996.58
Mg 279.078	5090.40	5071.13	5079.98
Mn 257.610	526.750	523.586	522.103
Mo 202.032	98.7103	97.1475	98.2078
Na 330.237	4943.42	5100.84	5107.64
Ni 231.604	100.127	100.861	101.031
Pb 220.353	487.169	488.708	486.947
Sb 206.834	50.4109	48.7488	48.7346
Se 196.026	98.1177	106.549	105.399
Sn 189.925	196.674	189.313	196.398
Sr 216.596	98.3573	98.3111	97.7483
Ti 334.941	100.953	100.344	100.085
Tl 190.794	39.3631	40.5839	39.3505
V 292.401	102.936	102.601	101.750
Zn 206.200	104.997	108.863	110.786

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.7438	ppb	0.2321	0.4	4203.96
Al 308.215	5100.47	ppb	14.6202	0.3	34033.2
As 188.980	98.6341	ppb	2.4990	2.5	59.6124
B 249.678	209.896	ppb	0.6983	0.3	3457.06
Ba 389.178	93.3466	ppb	0.4634	0.5	2028.31
Be 313.042	54.3245	ppb	0.1745	0.3	102105
Ca 370.602	4776	ppb	11.31	0.2	12823
Cd 226.502	50.6364	ppb	0.1480	0.3	2321.38
Co 228.615	50.7701	ppb	0.2924	0.6	609.939
Cr 267.716	106.169	ppb	0.4590	0.4	5790.83
Cu 324.754	103.574	ppb	0.3537	0.3	7176.48
Fe 271.441	5092.80	ppb	14.8876	0.3	8201.45
K 766.491	5007.34	ppb	14.9504	0.3	201515
Mg 279.078	5080.50	ppb	9.6428	0.2	13806.1
Mn 257.610	524.146	ppb	2.3736	0.5	109823
Mo 202.032	98.0219	ppb	0.7978	0.8	667.023
Na 330.237	5050.63	ppb	92.9130	1.8	247.745
Ni 231.604	100.673	ppb	0.4804	0.5	314.417
Pb 220.353	487.608	ppb	0.9594	0.2	811.225
Sb 206.834	49.2981	ppb	0.9637	2.0	63.1232
Se 196.026	103.355	ppb	4.5719	4.4	51.1032
Sn 189.925	194.128	ppb	4.1724	2.1	142.125
Sr 216.596	98.1389	ppb	0.3391	0.3	1259.88
Ti 334.941	100.461	ppb	0.4458	0.4	29273.2
Tl 190.794	39.7658	ppb	0.7085	1.8	33.1730
V 292.401	102.429	ppb	0.6116	0.6	2575.74
Zn 206.200	108.215	ppb	2.9486	2.7	127.540

680-107150-e-1-a (Samp) **11/14/2014, 10:28:54 PM** **Rack 2, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1618	-0.0744u	0.0964
Al 308.215	101.145	101.835	102.284
As 188.980	-5.1192u	2.3725	-0.3686u
B 249.678	42.1161	41.5138	41.7555
Ba 389.178	10.0294	10.5171	10.5714
Be 313.042	-0.0004	0.0010	0.0006
Ca 370.602	29115	29058	29015
Cd 226.502	0.0958	-0.0331	0.1840
Co 228.615	-0.7431u	0.3187	-0.6094u
Cr 267.716	1.1179	1.0025	1.1063
Cu 324.754	9.0141	9.0360	9.2137
Fe 271.441	708.227	705.195	706.268
K 766.491	41964.2x	41970.6x	42059.6x
Mg 279.078	7173.90	7179.91	7170.31
Mn 257.610	27.0821	27.1212	27.2059
Mo 202.032	0.6819	1.0955	0.8963
Na 330.237	63287.8	63335.1	63488.6
Ni 231.604	3.3888	3.5543	3.3688
Pb 220.353	1.2304	3.7539	1.9858
Sb 206.834	3.0361	1.9607	3.3089
Se 196.026	4.4189	-3.1521u	8.8742
Sn 189.925	2.0850	0.1385	1.0687
Sr 216.596	219.388	219.650	219.114
Ti 334.941	1.4014	1.0326	1.0320
Tl 190.794	-2.0864u	-5.9520u	2.1911
V 292.401	0.5366	0.0702	0.4506
Zn 206.200	89.3969	89.4835	85.9913

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0613b	ppb	0.1220	199.1	-36.6827
Al 308.215	101.755b	ppb	0.5737	0.6	1113.34
As 188.980	-1.0384b	ppb	3.7905	365.0	-6.7741
B 249.678	41.7951b	ppb	0.3031	0.7	722.762
Ba 389.178	10.3727b	ppb	0.2985	2.9	205.464
Be 313.042	0.0004b	ppb	0.0007	190.4	-313.452
Ca 370.602	29063b	ppb	49.87	0.2	77869
Cd 226.502	0.0822b	ppb	0.1092	132.8	36.8415
Co 228.615	-0.3446b	ppb	0.5783	167.8	-3.4469
Cr 267.716	1.0755b	ppb	0.0636	5.9	90.4946
Cu 324.754	9.0879b	ppb	0.1095	1.2	805.090
Fe 271.441	706.563b	ppb	1.5375	0.2	1149.52
K 766.491	41998.1xb	ppb	53.3037	0.1	1688477
Mg 279.078	7174.71b	ppb	4.8498	0.1	19505.0
Mn 257.610	27.1364b	ppb	0.0632	0.2	5811.16
Mo 202.032	0.8913b	ppb	0.2068	23.2	15.6745
Na 330.237	63370.5b	ppb	104.971	0.2	2806.65
Ni 231.604	3.4373b	ppb	0.1018	3.0	4.8988
Pb 220.353	2.3233b	ppb	1.2952	55.7	16.4421
Sb 206.834	2.7686b	ppb	0.7128	25.7	-1.1748
Se 196.026	3.3803b	ppb	6.0800	179.9	5.9341
Sn 189.925	1.0974b	ppb	0.9736	88.7	-4.4983
Sr 216.596	219.384b	ppb	0.2678	0.1	2812.43

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	1.1553b	ppb	0.2131	18.4	349.174
Tl 190.794	-1.9491b	ppb	4.0733	209.0	-10.2154
V 292.401	0.3525b	ppb	0.2482	70.4	-11.3298
Zn 206.200	88.2906b	ppb	1.9917	2.3	104.447

Cont Calib Verif (CCV) **11/14/2014, 10:33:10 PM** **Rack 2, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	494.097	497.336	495.019
Al 308.215	5006.35	5040.81	5022.23
As 188.980	467.408	476.637	476.582
B 249.678	514.640	520.424	522.247
Ba 389.178	4656.24	4677.39	4653.71
Be 313.042	524.983	530.169	527.916
Ca 370.602	4712	4751	4716
Cd 226.502	492.832	496.650	495.280
Co 228.615	502.027	504.213	504.113
Cr 267.716	5092.64	5134.20	5111.27
Cu 324.754	5044.07	5084.32	5117.75
Fe 271.441	5001.63	5033.19	5004.89
K 766.491	10247.9	10269.5	10221.9
Mg 279.078	5051.29	5088.52	5075.32
Mn 257.610	5038.62	5094.45	5051.59
Mo 202.032	480.400	485.761	485.149
Na 330.237	7961.95	7663.62	7770.80
Ni 231.604	2478.72	2495.92	2495.49
Pb 220.353	478.334	476.859	480.181
Sb 206.834	898.904	913.066	906.150
Se 196.026	5076.67	5116.16	5105.05
Sn 189.925	4831.49	4772.46	4847.53
Sr 216.596	2440.60	2461.07	2455.70
Ti 334.941	485.227	488.249	485.630
Tl 190.794	4853.86	4887.19	4886.92
V 292.401	4903.21	4943.83	4911.23
Zn 206.200	2585.55	2604.15	2601.35

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	495.484	ppb	1.6691	0.3	39749.1	99.09678
Al 308.215	5023.13	ppb	17.2475	0.3	34147.5	100.46262
As 188.980	473.542	ppb	5.3128	1.1	309.421	94.70844
B 249.678	519.104	ppb	3.9718	0.8	8516.43	103.82070
Ba 389.178	4662.45	ppb	13.0019	0.3	102435	93.24898
Be 313.042	527.689	ppb	2.6004	0.5	994845	105.53786
Ca 370.602	4726	ppb	21.36	0.5	12996	94.52362
Cd 226.502	494.921	ppb	1.9341	0.4	22211.5	98.98415
Co 228.615	503.451	ppb	1.2343	0.2	6050.06	100.69018
Cr 267.716	5112.70	ppb	20.8141	0.4	277217	102.25404
Cu 324.754	5082.05	ppb	36.8949	0.7	342626	101.64094
Fe 271.441	5013.23	ppb	17.3577	0.3	8168.02	100.26469
K 766.491	10246.4	ppb	23.8179	0.2	412117	102.46435
Mg 279.078	5071.71	ppb	18.8748	0.4	13688.4	101.43420
Mn 257.610	5061.55	ppb	29.2163	0.6	1059421	101.23105
Mo 202.032	483.770	ppb	2.9345	0.6	3249.95	96.75395

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	7798.79	ppb	151.123	1.9	320.342	103.98389
Ni 231.604	2490.04	ppb	9.8110	0.4	7912.78	99.60164
Pb 220.353	478.458	ppb	1.6645	0.3	800.544	95.69158
Sb 206.834	906.040	ppb	7.0817	0.8	1307.83	90.60402
Se 196.026	5099.29	ppb	20.3635	0.4	2301.78	101.98589
Sn 189.925	4817.16	ppb	39.5375	0.8	3654.15	96.34320
Sr 216.596	2452.46	ppb	10.6158	0.4	31174.1	98.09827
Ti 334.941	486.369	ppb	1.6406	0.3	141668	97.27375
Tl 190.794	4875.99	ppb	19.1624	0.4	5123.81	97.51978
V 292.401	4919.42	ppb	21.5178	0.4	125476	98.38845
Zn 206.200	2597.02	ppb	10.0325	0.4	3051.03	103.88071

Cont Calib Blank (CCB) **11/14/2014, 10:37:27 PM** **Rack 2, Tube 38**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2779	-0.4166u	-0.1320u
Al 308.215	4.7503	1.7214	3.8956
As 188.980	0.5413	1.6365	1.6342
B 249.678	10.5907	9.8147	8.4648
Ba 389.178	-0.0218u	-0.1620u	-0.3878u
Be 313.042	0.0354	0.0400	0.0257
Ca 370.602	-6.417u	0.5192	-5.671u
Cd 226.502	0.2013	0.0481	-0.1197u
Co 228.615	-0.1034u	-0.3315u	-0.2119u
Cr 267.716	0.3773	0.3662	0.3535
Cu 324.754	0.4439	0.3276	0.3921
Fe 271.441	6.3676	2.8583	7.9660
K 766.491	3.5567	2.7921	3.4548
Mg 279.078	3.9563	0.9176	4.9027
Mn 257.610	0.3496	0.3206	0.3900
Mo 202.032	-0.3596u	0.0047	-0.0845u
Na 330.237	126.215	86.4496	-111.870u
Ni 231.604	0.3522	1.1043	1.7172
Pb 220.353	1.5953	-1.3756u	3.9799
Sb 206.834	3.1047	3.6479	3.3266
Se 196.026	2.0836	6.1168	7.5745
Sn 189.925	1.6263	2.1641	-0.8332u
Sr 216.596	0.1003	-0.0327u	0.3021
Ti 334.941	0.0326	0.0886	0.1387
Tl 190.794	-2.0660u	3.8052	2.2969
V 292.401	0.6021	0.5752	0.6375
Zn 206.200	0.9757	-0.2108u	0.4080

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0903	ppb	0.3491	386.8	-41.6403	-0.09025
Al 308.215	3.4558	ppb	1.5616	45.2	466.218	3.45577
As 188.980	1.2707	ppb	0.6317	49.7	-5.2300	1.27069
B 249.678	9.6234	ppb	1.0758	11.2	199.153	9.62339
Ba 389.178	-0.1905	ppb	0.1847	96.9	-41.8767	-0.19055
Be 313.042	0.0337	ppb	0.0073	21.7	-251.865	0.03369
Ca 370.602	-3.856	ppb	3.808	98.7	12.30	-3.85628
Cd 226.502	0.0433	ppb	0.1606	371.3	32.0514	0.04325
Co 228.615	-0.2156	ppb	0.1141	52.9	-1.9758	-0.21561

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	0.3657	ppb	0.0119	3.2	50.3098	0.36567
Cu 324.754	0.3879	ppb	0.0583	15.0	218.475	0.38787
Fe 271.441	5.7306	ppb	2.6127	45.6	23.8995	5.73064
K 766.491	3.2679	ppb	0.4151	12.7	359.991	3.26786
Mg 279.078	3.2589	ppb	2.0820	63.9	31.8335	3.25886
Mn 257.610	0.3534	ppb	0.0349	9.9	150.575	0.35337
Mo 202.032	-0.1465	ppb	0.1899	129.6	8.7440	-0.14649
Na 330.237	33.5985	ppb	127.538	379.6	30.8912	33.59848
Ni 231.604	1.0579	ppb	0.6837	64.6	-2.7309	1.05790
Pb 220.353	1.3999	ppb	2.6831	191.7	14.8789	1.39989
Sb 206.834	3.3597	ppb	0.2731	8.1	-0.3609	3.35972
Se 196.026	5.2583	ppb	2.8443	54.1	6.7675	5.25833
Sn 189.925	0.9857	ppb	1.5980	162.1	-4.6029	0.98570
Sr 216.596	0.1232	ppb	0.1685	136.8	6.4930	0.12324
Ti 334.941	0.0866	ppb	0.0530	61.2	30.0537	0.08662
Tl 190.794	1.3454	ppb	3.0490	226.6	-6.6586	1.34537
V 292.401	0.6049	ppb	0.0313	5.2	-4.0434	0.60493
Zn 206.200	0.3910	ppb	0.5934	151.8	0.8326	0.39097

680-107150-e-1-aSD^5 (Samp) **11/14/2014, 10:41:43 PM** **Rack 2, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0604u	0.0959	-0.1385u
Al 308.215	31.4237	29.0552	29.5437
As 188.980	0.1896	-2.7446u	1.1219
B 249.678	13.6569	12.7007	12.6833
Ba 389.178	2.1953	2.6942	2.5194
Be 313.042	0.0035	0.0124	0.0094
Ca 370.602	7674	7530	7258
Cd 226.502	0.0850	0.0061	0.1249
Co 228.615	0.2419	0.3582	-0.6556u
Cr 267.716	0.4890	0.3541	0.3365
Cu 324.754	2.5046	2.7372	2.3523
Fe 271.441	185.611	192.120	187.534
K 766.491	10885.6	10742.7	10447.0
Mg 279.078	1915.09	1880.22	1821.58
Mn 257.610	7.2069	7.1326	6.9348
Mo 202.032	0.2401	-0.2773u	-0.2243u
Na 330.237	15873.2	16042.9	15154.3
Ni 231.604	1.0782	1.8450	1.4847
Pb 220.353	-0.4227u	6.0229	-0.6231u
Sb 206.834	0.3518	-1.1648u	-1.3076u
Se 196.026	-4.3555u	3.7542	-2.1307u
Sn 189.925	0.7061	-1.3543u	0.4398
Sr 216.596	57.2289	57.0244	55.1625
Ti 334.941	0.2359	0.2355	0.1322
Tl 190.794	-1.1532u	-1.7837u	0.3655
V 292.401	0.4127	0.2016	0.1096
Zn 206.200	25.4430	22.3622	24.0932

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0343	ppb	0.1194	347.8	-39.0134
Al 308.215	30.0075	ppb	1.2505	4.2	640.978

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-0.4777	ppb	2.0178	422.4	-6.3966
B 249.678	13.0136	ppb	0.5572	4.3	254.072
Ba 389.178	2.4696	ppb	0.2532	10.3	20.5443
Be 313.042	0.0084	ppb	0.0045	53.4	-299.053
Ca 370.602	7487	ppb	211.0	2.8	20079
Cd 226.502	0.0720	ppb	0.0605	84.0	34.1179
Co 228.615	-0.0185	ppb	0.5548	2992.4	0.4136
Cr 267.716	0.3932	ppb	0.0834	21.2	52.2264
Cu 324.754	2.5314	ppb	0.1939	7.7	363.000
Fe 271.441	188.422	ppb	3.3440	1.8	317.323
K 766.491	10691.8	ppb	223.697	2.1	430018
Mg 279.078	1872.29	ppb	47.2583	2.5	5106.96
Mn 257.610	7.0914	ppb	0.1406	2.0	1575.17
Mo 202.032	-0.0872	ppb	0.2847	326.5	9.1341
Na 330.237	15690.1	ppb	471.729	3.0	717.009
Ni 231.604	1.4693	ppb	0.3836	26.1	-1.4066
Pb 220.353	1.6590	ppb	3.7806	227.9	15.3166
Sb 206.834	-0.7069	ppb	0.9196	130.1	-5.9894
Se 196.026	-0.9106	ppb	4.1902	460.1	3.9927
Sn 189.925	-0.0695	ppb	1.1206	1613.2	-5.3997
Sr 216.596	56.4719	ppb	1.1386	2.0	727.618
Ti 334.941	0.2012	ppb	0.0598	29.7	65.5466
Tl 190.794	-0.8571	ppb	1.1048	128.9	-8.9965
V 292.401	0.2413	ppb	0.1554	64.4	-13.4982
Zn 206.200	23.9661	ppb	1.5443	6.4	28.6232

680-107150-e-1-aPDS (Samp) **11/14/2014, 10:46:00 PM** **Rack 2, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	108.910	108.772	108.641
Al 308.215	1210.74	1210.43	1213.60
As 188.980	110.875	111.866	103.958
B 249.678	272.141	273.018	275.836
Ba 389.178	99.6585	100.595	100.868
Be 313.042	112.676	112.546	112.756
Ca 370.602	49039	49185	49320
Cd 226.502	101.771	101.826	102.439
Co 228.615	105.439	105.345	105.804
Cr 267.716	110.972	110.751	110.853
Cu 324.754	122.251	121.920	122.175
Fe 271.441	11438.2	11418.8	11464.1
K 766.491	67518.8x	67303.7x	67448.9x
Mg 279.078	20152.7	20134.8	20153.2
Mn 257.610	1118.95	1116.29	1117.63
Mo 202.032	102.073	102.732	102.968
Na 330.237	97896.4	97846.5	98149.5
Ni 231.604	108.043	109.581	108.035
Pb 220.353	106.096	100.392	102.218
Sb 206.834	96.0349	100.534	96.1185
Se 196.026	118.716	123.509	118.358
Sn 189.925	104.310	96.6829	101.608
Sr 216.596	390.341	390.742	390.305
Ti 334.941	104.559	104.305	105.454

Label	Replicates Concentration		
Tl 190.794	18.0172	15.8441	18.0085
V 292.401	105.963	106.244	106.076
Zn 206.200	227.639	223.955	227.096

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	108.774b	ppb	0.1346	0.1	8699.86
Al 308.215	1211.59b	ppb	1.7482	0.1	8435.20
As 188.980	108.900b	ppb	4.3082	4.0	66.4130
B 249.678	273.665b	ppb	1.9307	0.7	4484.43
Ba 389.178	100.374b	ppb	0.6343	0.6	2218.42
Be 313.042	112.660b	ppb	0.1059	0.1	212098
Ca 370.602	49181b	ppb	140.7	0.3	131729
Cd 226.502	102.012b	ppb	0.3708	0.4	4651.45
Co 228.615	105.529b	ppb	0.2428	0.2	1267.79
Cr 267.716	110.859b	ppb	0.1104	0.1	6052.22
Cu 324.754	122.115b	ppb	0.1732	0.1	8428.60
Fe 271.441	11440.3b	ppb	22.7355	0.2	18403.0
K 766.491	67423.8xb	ppb	109.705	0.2	2710541
Mg 279.078	20146.9b	ppb	10.4938	0.1	54707.3
Mn 257.610	1117.62b	ppb	1.3296	0.1	234158
Mo 202.032	102.591b	ppb	0.4641	0.5	697.384
Na 330.237	97964.1b	ppb	162.452	0.2	4318.75
Ni 231.604	108.553b	ppb	0.8901	0.8	339.894
Pb 220.353	102.902b	ppb	2.9127	2.8	181.927
Sb 206.834	97.5625b	ppb	2.5738	2.6	130.107
Se 196.026	120.194b	ppb	2.8764	2.4	58.8765
Sn 189.925	100.867b	ppb	3.8671	3.8	71.3054
Sr 216.596	390.463b	ppb	0.2425	0.1	5010.47
Ti 334.941	104.772b	ppb	0.6036	0.6	30549.0
Tl 190.794	17.2900b	ppb	1.2521	7.2	9.0423
V 292.401	106.094b	ppb	0.1414	0.1	2665.76
Zn 206.200	226.230b	ppb	1.9889	0.9	266.439

680-107150-e-1-b ms (Samp) **11/14/2014, 10:50:17 PM** **Rack 2, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.4588	52.1830	52.5630
Al 308.215	5235.81	5234.94	5243.25
As 188.980	100.243	107.146	103.399
B 249.678	254.332	254.409	255.656
Ba 389.178	103.112	103.663	103.081
Be 313.042	53.8878	53.9625	53.9712
Ca 370.602	38612	38575	38547
Cd 226.502	49.3700	49.4829	49.0040
Co 228.615	50.2302	50.2818	49.2607
Cr 267.716	104.269	104.232	104.520
Cu 324.754	115.417	114.601	112.739
Fe 271.441	5782.20	5791.58	5785.14
K 766.491	54243.0x	54461.2x	54378.5x
Mg 279.078	13422.6	13406.6	13434.6
Mn 257.610	537.822	538.095	538.355
Mo 202.032	96.4776	96.4431	97.4690
Na 330.237	80911.4	80710.1	80864.8

Label	Replicates Concentration		
Ni 231.604	101.351	102.553	101.123
Pb 220.353	465.878	466.750	466.876
Sb 206.834	49.1018	51.1115	44.8396
Se 196.026	81.7905	89.7492	78.3840
Sn 189.925	176.771	178.372	178.474
Sr 216.596	347.311	347.853	347.817
Ti 334.941	96.4629	96.3547	96.8501
Tl 190.794	35.5603	35.0412	35.8596
V 292.401	99.8933	100.133	100.166
Zn 206.200	205.810	203.339	206.937

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.4016b	ppb	0.1964	0.4	4168.19
Al 308.215	5238.00b	ppb	4.5678	0.1	34938.2
As 188.980	103.596b	ppb	3.4556	3.3	62.9160
B 249.678	254.799b	ppb	0.7430	0.3	4188.50
Ba 389.178	103.285b	ppb	0.3276	0.3	2264.30
Be 313.042	53.9405b	ppb	0.0459	0.1	101383
Ca 370.602	38578b	ppb	32.52	0.1	103362
Cd 226.502	49.2856b	ppb	0.2504	0.5	2263.81
Co 228.615	49.9242b	ppb	0.5752	1.2	599.826
Cr 267.716	104.340b	ppb	0.1569	0.2	5693.57
Cu 324.754	114.252b	ppb	1.3726	1.2	7896.33
Fe 271.441	5786.31b	ppb	4.8000	0.1	9315.21
K 766.491	54360.9xb	ppb	110.128	0.2	2185437
Mg 279.078	13421.2b	ppb	14.0449	0.1	36454.6
Mn 257.610	538.091b	ppb	0.2667	0.0	112806
Mo 202.032	96.7966b	ppb	0.5826	0.6	658.773
Na 330.237	80828.8b	ppb	105.343	0.1	3568.92
Ni 231.604	101.676b	ppb	0.7684	0.8	317.669
Pb 220.353	466.501b	ppb	0.5435	0.1	776.718
Sb 206.834	48.3510b	ppb	3.2026	6.6	61.8200
Se 196.026	83.3079b	ppb	5.8326	7.0	42.0856
Sn 189.925	177.872b	ppb	0.9549	0.5	129.799
Sr 216.596	347.660b	ppb	0.3032	0.1	4453.34
Ti 334.941	96.5559b	ppb	0.2605	0.3	28145.0
Tl 190.794	35.4871b	ppb	0.4141	1.2	28.5824
V 292.401	100.064b	ppb	0.1489	0.1	2514.90
Zn 206.200	205.362b	ppb	1.8408	0.9	242.065

680-107150-e-1-c msd (Samp) **11/14/2014, 10:54:33 PM** **Rack 2, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.0850	51.6492	52.1720
Al 308.215	5302.68	5284.80	5292.66
As 188.980	105.738	97.7659	105.053
B 249.678	258.354	257.554	259.168
Ba 389.178	104.747	104.455	103.604
Be 313.042	54.5231	54.3664	54.4429
Ca 370.602	38458	38626	38683
Cd 226.502	49.8338	49.8641	49.5854
Co 228.615	50.7987	49.3731	50.2974
Cr 267.716	105.916	105.521	105.178

Label	Replicates Concentration		
Cu 324.754	116.025	116.256	116.151
Fe 271.441	5845.36	5838.00	5834.52
K 766.491	54903.9x	54574.7x	54452.3x
Mg 279.078	13541.7	13521.9	13531.7
Mn 257.610	545.581	544.145	543.277
Mo 202.032	98.8148	97.7367	98.0935
Na 330.237	81766.6	81012.4	81138.2
Ni 231.604	102.330	103.269	103.253
Pb 220.353	471.013	470.146	472.941
Sb 206.834	47.8580	48.9853	53.5983
Se 196.026	80.8921	83.9325	75.9317
Sn 189.925	188.059	178.581	180.015
Sr 216.596	350.789	350.931	351.330
Ti 334.941	97.7274	97.5446	97.8227
Tl 190.794	34.3629	31.7556	36.6973
V 292.401	100.746	100.418	100.497
Zn 206.200	203.560	204.609	206.560

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.9687b	ppb	0.2801	0.5	4133.25
Al 308.215	5293.38b	ppb	8.9588	0.2	35303.0
As 188.980	102.852b	ppb	4.4183	4.3	62.4194
B 249.678	258.359b	ppb	0.8073	0.3	4246.52
Ba 389.178	104.269b	ppb	0.5937	0.6	2286.19
Be 313.042	54.4442b	ppb	0.0784	0.1	102332
Ca 370.602	38589b	ppb	117.2	0.3	103393
Cd 226.502	49.7611b	ppb	0.1529	0.3	2285.39
Co 228.615	50.1564b	ppb	0.7232	1.4	602.603
Cr 267.716	105.538b	ppb	0.3693	0.3	5758.56
Cu 324.754	116.144b	ppb	0.1157	0.1	8023.90
Fe 271.441	5839.29b	ppb	5.5358	0.1	9400.36
K 766.491	54643.6xb	ppb	233.592	0.4	2196803
Mg 279.078	13531.8b	ppb	9.8653	0.1	36754.6
Mn 257.610	544.334b	ppb	1.1637	0.2	114114
Mo 202.032	98.2150b	ppb	0.5492	0.6	668.286
Na 330.237	81305.8b	ppb	404.079	0.5	3589.83
Ni 231.604	102.951b	ppb	0.5378	0.5	321.729
Pb 220.353	471.367b	ppb	1.4306	0.3	784.686
Sb 206.834	50.1472b	ppb	3.0414	6.1	64.3010
Se 196.026	80.2521b	ppb	4.0386	5.0	40.7114
Sn 189.925	182.218b	ppb	5.1087	2.8	133.101
Sr 216.596	351.017b	ppb	0.2805	0.1	4496.17
Ti 334.941	97.6982b	ppb	0.1413	0.1	28477.9
Tl 190.794	34.2720b	ppb	2.4721	7.2	27.2964
V 292.401	100.554b	ppb	0.1713	0.2	2527.04
Zn 206.200	204.909b	ppb	1.5225	0.7	241.526

680-107150-e-2-a (Samp) **11/14/2014, 10:58:50 PM** **Rack 2, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0945u	-0.0136u	-0.0467u
Al 308.215	359.483	362.908	361.581
As 188.980	-0.5914u	0.2197	-5.0260u

Label	Replicates Concentration		
B 249.678	24.9255	24.5063	24.2400
Ba 389.178	16.2832	14.6708	15.3080
Be 313.042	-0.0003	0.0073	0.0089
Ca 370.602	25236	25228	25202
Cd 226.502	-0.0707u	-0.2417u	-0.0700u
Co 228.615	-0.6573u	-0.3389u	-0.3040u
Cr 267.716	2.9266	2.8403	2.8104
Cu 324.754	4.9469	5.2876	5.7052
Fe 271.441	216.544	221.378	221.471
K 766.491	1865.07	1863.00	1864.82
Mg 279.078	7813.56	7808.47	7798.24
Mn 257.610	4.1693	4.1983	4.1676
Mo 202.032	1.1435	2.3159	1.2853
Na 330.237	9718.73	9492.31	9502.38
Ni 231.604	0.2952	1.2429	2.8996
Pb 220.353	0.5603	2.0175	3.3085
Sb 206.834	-4.9943u	0.1479	-0.5217u
Se 196.026	4.0641	3.7824	-0.4854u
Sn 189.925	0.4213	-1.8290u	-1.8393u
Sr 216.596	309.096	309.057	308.160
Ti 334.941	4.2846	3.8336	4.1586
Tl 190.794	-1.8698u	-1.4922u	-3.2095u
V 292.401	-0.0928u	0.3090	0.1921
Zn 206.200	20.4240	19.3455	19.6544

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0516	ppb	0.0407	78.9	-48.6586
Al 308.215	361.324	ppb	1.7269	0.5	2821.95
As 188.980	-1.7992	ppb	2.8237	156.9	-7.2783
B 249.678	24.5573	ppb	0.3456	1.4	442.388
Ba 389.178	15.4207	ppb	0.8121	5.3	317.320
Be 313.042	0.0053	ppb	0.0049	92.8	-297.671
Ca 370.602	25222	ppb	17.99	0.1	67586
Cd 226.502	-0.1275	ppb	0.0990	77.6	25.4920
Co 228.615	-0.4334	ppb	0.1947	44.9	-4.5253
Cr 267.716	2.8591	ppb	0.0604	2.1	185.831
Cu 324.754	5.3132	ppb	0.3798	7.1	550.545
Fe 271.441	219.798	ppb	2.8177	1.3	367.677
K 766.491	1864.30	ppb	1.1316	0.1	75170.0
Mg 279.078	7806.76	ppb	7.8021	0.1	21221.6
Mn 257.610	4.1784	ppb	0.0172	0.4	1009.98
Mo 202.032	1.5816	ppb	0.6399	40.5	20.3280
Na 330.237	9571.14	ppb	127.912	1.3	448.730
Ni 231.604	1.4792	ppb	1.3182	89.1	-1.3706
Pb 220.353	1.9621	ppb	1.3749	70.1	15.8075
Sb 206.834	-1.7894	ppb	2.7957	156.2	-7.4868
Se 196.026	2.4537	ppb	2.5493	103.9	5.5074
Sn 189.925	-1.0823	ppb	1.3022	120.3	-6.1710
Sr 216.596	308.771	ppb	0.5294	0.2	3948.84
Ti 334.941	4.0923	ppb	0.2327	5.7	1209.82
Tl 190.794	-2.1905	ppb	0.9025	41.2	-10.4108
V 292.401	0.1361	ppb	0.2067	151.9	-16.4855
Zn 206.200	19.8080	ppb	0.5554	2.8	23.7136

680-107150-e-3-a (Samp) **11/14/2014, 11:03:06 PM** **Rack 2, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2364	-0.2715u	-0.1909u
Al 308.215	60.1068	59.9645	58.4547
As 188.980	3.1702	-2.7899u	-4.0660u
B 249.678	42.2006	41.9529	42.0176
Ba 389.178	13.2761	14.0654	15.2676
Be 313.042	0.0136	0.0106	0.0154
Ca 370.602	14715	14696	14680
Cd 226.502	-0.0136	0.2706	0.0762
Co 228.615	0.1365	0.1473	0.0033
Cr 267.716	0.9189	0.7511	0.7454
Cu 324.754	12.9558	13.0956	13.5814
Fe 271.441	1952.83	1969.93	1957.50
K 766.491	28625.5	28606.9	28589.8
Mg 279.078	956.228	959.333	966.857
Mn 257.610	17.7064	17.8331	17.9454
Mo 202.032	-0.2486u	0.1683	-0.0966u
Na 330.237	39427.9	39427.4	39379.3
Ni 231.604	1.2066	1.3677	2.6482
Pb 220.353	3.2307	6.6679	3.7092
Sb 206.834	7.0437	0.7008	-0.4426u
Se 196.026	4.1815	9.1228	7.8969
Sn 189.925	-1.2618u	-2.1224u	1.8465
Sr 216.596	53.3019	53.3278	54.3199
Ti 334.941	0.7781	0.8139	0.7593
Tl 190.794	-8.9695u	-4.7268u	-1.7635u
V 292.401	0.5772	0.5983	0.4036
Zn 206.200	64.7749	63.1579	62.7717

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0753	ppb	0.2730	362.4	-42.4477
Al 308.215	59.5087	ppb	0.9156	1.5	835.396
As 188.980	-1.2286	ppb	3.8625	314.4	-6.9088
B 249.678	42.0570	ppb	0.1285	0.3	724.201
Ba 389.178	14.2030	ppb	1.0029	7.1	277.826
Be 313.042	0.0132	ppb	0.0025	18.5	-290.812
Ca 370.602	14697	ppb	17.78	0.1	39375
Cd 226.502	0.1111	ppb	0.1452	130.8	44.1868
Co 228.615	0.0957	ppb	0.0802	83.8	1.9364
Cr 267.716	0.8051	ppb	0.0986	12.2	75.9090
Cu 324.754	13.2109	ppb	0.3283	2.5	1083.40
Fe 271.441	1960.09	ppb	8.8395	0.5	3162.94
K 766.491	28607.4	ppb	17.8904	0.1	1150193
Mg 279.078	960.806	ppb	5.4651	0.6	2631.62
Mn 257.610	17.8283	ppb	0.1196	0.7	3820.50
Mo 202.032	-0.0590	ppb	0.2110	357.9	9.2413
Na 330.237	39411.5	ppb	27.9091	0.1	1756.15
Ni 231.604	1.7408	ppb	0.7899	45.4	-0.3887
Pb 220.353	4.5359	ppb	1.8618	41.0	20.1512
Sb 206.834	2.4340	ppb	4.0329	165.7	-1.6037
Se 196.026	7.0671	ppb	2.5730	36.4	7.6031
Sn 189.925	-0.5126	ppb	2.0878	407.3	-5.7290
Sr 216.596	53.6499	ppb	0.5804	1.1	697.177

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.7838	ppb	0.0277	3.5	231.997
Tl 190.794	-5.1533	ppb	3.6219	70.3	-13.7689
V 292.401	0.5264	ppb	0.1069	20.3	-7.0311
Zn 206.200	63.5682	ppb	1.0628	1.7	75.2495

680-107222-a-1-a (Samp) **11/14/2014, 11:07:23 PM** **Rack 2, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0795u	0.3500	0.2143
Al 308.215	1431.63	1431.45	1425.59
As 188.980	1.4528	4.1511	-4.1100u
B 249.678	25.6720	25.9138	25.6130
Ba 389.178	15.7434	16.3085	16.2179
Be 313.042	0.0325	0.0365	0.0379
Ca 370.602	6996	6981	6992
Cd 226.502	0.3498	0.2828	0.3163
Co 228.615	-0.2164u	0.0189	0.3027
Cr 267.716	3.0083	2.9287	3.0786
Cu 324.754	52.6526	52.3018	52.3488
Fe 271.441	1954.17	1953.07	1951.77
K 766.491	6679.47	6676.10	6672.27
Mg 279.078	2240.06	2241.45	2236.48
Mn 257.610	63.2079	63.2934	63.1213
Mo 202.032	1.0995	0.3062	-0.2109u
Na 330.237	21829.1	21625.0	21863.0
Ni 231.604	4.9202	3.8011	4.1555
Pb 220.353	3.3879	5.3013	4.6004
Sb 206.834	6.9119	0.5074	0.0865
Se 196.026	11.1972	5.0402	8.7823
Sn 189.925	0.9985	2.6841	-2.5418u
Sr 216.596	28.6735	28.6057	28.0751
Ti 334.941	28.0927	29.1479	27.8370
Tl 190.794	-3.3316u	1.8921	-3.7761u
V 292.401	2.6251	2.4872	3.0547
Zn 206.200	190.598	189.970	190.605

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1616	ppb	0.2195	135.8	-22.3580
Al 308.215	1429.55	ppb	3.4372	0.2	9854.07
As 188.980	0.4980	ppb	4.2125	845.9	-5.7579
B 249.678	25.7329	ppb	0.1594	0.6	457.709
Ba 389.178	16.0899	ppb	0.3035	1.9	321.903
Be 313.042	0.0356	ppb	0.0028	7.9	-248.307
Ca 370.602	6990	ppb	8.047	0.1	18741
Cd 226.502	0.3163	ppb	0.0335	10.6	53.3995
Co 228.615	0.0351	ppb	0.2599	740.7	1.7934
Cr 267.716	3.0052	ppb	0.0750	2.5	195.130
Cu 324.754	52.4344	ppb	0.1905	0.4	3726.65
Fe 271.441	1953.00	ppb	1.2044	0.1	3151.58
K 766.491	6675.95	ppb	3.6040	0.1	268590
Mg 279.078	2239.33	ppb	2.5630	0.1	6101.93
Mn 257.610	63.2076	ppb	0.0861	0.1	13327.0
Mo 202.032	0.3982	ppb	0.6600	165.7	12.3072

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	21772.4	ppb	128.744	0.6	980.131
Ni 231.604	4.2923	ppb	0.5719	13.3	7.7261
Pb 220.353	4.4299	ppb	0.9680	21.9	19.9533
Sb 206.834	2.5019	ppb	3.8250	152.9	-1.4904
Se 196.026	8.3399	ppb	3.1023	37.2	8.1864
Sn 189.925	0.3803	ppb	2.6673	701.4	-5.0561
Sr 216.596	28.4514	ppb	0.3277	1.2	372.837
Ti 334.941	28.3592	ppb	0.6949	2.5	8266.96
Tl 190.794	-1.7385	ppb	3.1521	181.3	-10.1558
V 292.401	2.7223	ppb	0.2960	10.9	49.2703
Zn 206.200	190.391	ppb	0.3646	0.2	224.782

680-107233-a-1-a (Samp) **11/14/2014, 11:11:39 PM** **Rack 2, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0947	0.1606	0.1441
Al 308.215	107.986	110.833	106.854
As 188.980	-2.3266u	-1.6764u	-2.3334u
B 249.678	1874.79	1888.19	1885.67
Ba 389.178	18.1809	17.6163	17.2008
Be 313.042	0.0299	0.0182u	0.0300
Ca 370.602	7319	7325	7265
Cd 226.502	9.8157	9.8042	9.7916
Co 228.615	1.5530	0.8788	1.3713
Cr 267.716	0.4635	0.1970	0.2645
Cu 324.754	8.6482	8.6007	8.5272
Fe 271.441	13.6359	15.0892	4.6834
K 766.491	6660.98	6684.55	6632.17
Mg 279.078	94.8141	94.5371	96.2446
Mn 257.610	0.6599	0.6287	0.7213
Mo 202.032	-0.2701u	-0.4442u	-0.2957u
Na 330.237	331236x	332811x	332106x
Ni 231.604	53.1483	51.5494	51.1921
Pb 220.353	4.1662	0.2962	-0.1804u
Sb 206.834	0.1412	0.6114	0.6453
Se 196.026	8.5823	12.7616	7.3765
Sn 189.925	-0.4571u	-0.4352u	-4.9216u
Sr 216.596	69.6730	70.8543	70.1999
Ti 334.941	-0.1355u	-0.0772u	-0.0795u
Tl 190.794	-1.0510u	-0.0515u	-1.9032u
V 292.401	0.3641	0.2110	0.5285
Zn 206.200	10.9760	11.1966	9.5326

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1331b	ppb	0.0343	25.8	-25.9599
Al 308.215	108.557b	ppb	2.0500	1.9	1158.02
As 188.980	-2.1121b	ppb	0.3774	17.9	-7.4849
B 249.678	1882.88b	ppb	7.1227	0.4	30773.3
Ba 389.178	17.6660b	ppb	0.4919	2.8	350.669
Be 313.042	0.0260b	ppb	0.0068	26.2	-300.673
Ca 370.602	7303b	ppb	33.19	0.5	19586
Cd 226.502	9.8038b	ppb	0.0121	0.1	466.926
Co 228.615	1.2677b	ppb	0.3488	27.5	15.8372

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.3083b	ppb	0.1385	44.9	53.4908
Cu 324.754	8.5920b	ppb	0.0610	0.7	771.347
Fe 271.441	11.1362b	ppb	5.6353	50.6	32.7427
K 766.491	6659.23b	ppb	26.2325	0.4	267918
Mg 279.078	95.1986b	ppb	0.9164	1.0	281.446
Mn 257.610	0.6700b	ppb	0.0471	7.0	216.058
Mo 202.032	-0.3367b	ppb	0.0940	27.9	7.4682
Na 330.237	332051xb	ppb	788.694	0.2	14591.1
Ni 231.604	51.9632b	ppb	1.0417	2.0	159.173
Pb 220.353	1.4273b	ppb	2.3839	167.0	14.9227
Sb 206.834	0.4660b	ppb	0.2818	60.5	-4.3643
Se 196.026	9.5735b	ppb	2.8261	29.5	8.7107
Sn 189.925	-1.9380b	ppb	2.5839	133.3	-6.7209
Sr 216.596	70.2424b	ppb	0.5918	0.8	901.246
Ti 334.941	-0.0974b	ppb	0.0330	33.9	-49.1227
Tl 190.794	-1.0019b	ppb	0.9268	92.5	-9.1209
V 292.401	0.3679b	ppb	0.1588	43.2	-12.4127
Zn 206.200	10.5684b	ppb	0.9038	8.6	12.8325

mb 680-358686/1-a (Samp) **11/14/2014, 11:15:56 PM** **Rack 2, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0681	-0.1061u	-0.3052u
Al 308.215	6.7597	6.9927	9.0829
As 188.980	0.0880	-1.1958u	-4.7586u
B 249.678	33.7138	29.2464	27.4515
Ba 389.178	-1.4353u	-0.9766u	-1.3275u
Be 313.042	0.0073	0.0101	0.0142
Ca 370.602	2.374	0.6885	0.4270
Cd 226.502	-0.0812u	0.0799	0.1161
Co 228.615	-0.8311u	-0.1011u	-0.3487u
Cr 267.716	0.2760	0.1847	0.5818
Cu 324.754	0.0160	0.0565	-0.0969u
Fe 271.441	5.1536	4.1001	5.6291
K 766.491	4.8424	3.6188	4.3239
Mg 279.078	1.5891	6.1663	3.6262
Mn 257.610	0.1265	0.0397	0.0951
Mo 202.032	0.1645	-0.2199u	0.3044
Na 330.237	141.124	105.212	260.189
Ni 231.604	1.4366	-0.6991u	1.1556
Pb 220.353	0.5752	-0.5606u	3.8499
Sb 206.834	-2.6236u	-0.2489u	-0.2627u
Se 196.026	6.6521	-1.9550u	4.0819
Sn 189.925	-2.1233u	-2.6142u	-2.8758u
Sr 216.596	0.3654	0.2123	-0.1708u
Ti 334.941	-0.1688u	-0.1169u	-0.0421u
Tl 190.794	-4.7902u	-1.8484u	-1.2684u
V 292.401	0.5027	0.0569	-0.1804u
Zn 206.200	3.6844	2.8677	3.0880

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1144	ppb	0.1868	163.3	-43.5912
Al 308.215	7.6118	ppb	1.2793	16.8	493.521

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-1.9555	ppb	2.5110	128.4	-7.3806
B 249.678	30.1372	ppb	3.2248	10.7	533.911
Ba 389.178	-1.2465	ppb	0.2398	19.2	-65.0742
Be 313.042	0.0105	ppb	0.0035	32.8	-295.580
Ca 370.602	1.163	ppb	1.057	90.8	25.65
Cd 226.502	0.0382	ppb	0.1050	274.6	31.8267
Co 228.615	-0.4270	ppb	0.3713	87.0	-4.5194
Cr 267.716	0.3475	ppb	0.2080	59.9	49.3293
Cu 324.754	-0.0081	ppb	0.0795	977.2	191.801
Fe 271.441	4.9610	ppb	0.7825	15.8	22.6084
K 766.491	4.2617	ppb	0.6142	14.4	399.943
Mg 279.078	3.7938	ppb	2.2932	60.4	33.2898
Mn 257.610	0.0871	ppb	0.0440	50.5	94.8636
Mo 202.032	0.0830	ppb	0.2715	327.1	10.2841
Na 330.237	168.842	ppb	81.1215	48.0	36.7760
Ni 231.604	0.6310	ppb	1.1604	183.9	-4.0875
Pb 220.353	1.2881	ppb	2.2901	177.8	14.6958
Sb 206.834	-1.0451	ppb	1.3671	130.8	-6.4650
Se 196.026	2.9263	ppb	4.4184	151.0	5.7173
Sn 189.925	-2.5378	ppb	0.3820	15.1	-7.2796
Sr 216.596	0.1356	ppb	0.2762	203.6	6.6678
Ti 334.941	-0.1093	ppb	0.0637	58.3	-27.0004
Tl 190.794	-2.6356	ppb	1.8883	71.6	-10.8437
V 292.401	0.1264	ppb	0.3468	274.4	-16.3183
Zn 206.200	3.2134	ppb	0.4225	13.1	4.1604

lcs 680-358686/2-a (Samp) **11/14/2014, 11:20:13 PM** **Rack 2, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.4933	52.7289	52.8557
Al 308.215	5102.84	5111.43	5109.14
As 188.980	97.7436	101.766	99.2897
B 249.678	219.228	218.581	219.983
Ba 389.178	92.1805	92.7087	92.1540
Be 313.042	54.8462	54.8607	54.9450
Ca 370.602	4768	4752	4757
Cd 226.502	50.8075	50.7685	50.7351
Co 228.615	51.4597	50.8234	51.5277
Cr 267.716	106.118	106.119	106.309
Cu 324.754	103.224	103.481	104.314
Fe 271.441	5091.57	5086.34	5097.09
K 766.491	4990.99	4989.85	4998.26
Mg 279.078	5131.78	5134.10	5126.62
Mn 257.610	521.709	520.967	521.615
Mo 202.032	96.5754	96.4765	97.4173
Na 330.237	5316.13	4924.07	5060.50
Ni 231.604	101.421	100.609	99.5760
Pb 220.353	483.565	483.149	479.724
Sb 206.834	50.1410	45.1347	45.1800
Se 196.026	104.878	103.255	106.144
Sn 189.925	193.248	197.068	196.001
Sr 216.596	97.4827	98.0553	97.7589
Ti 334.941	99.7347	99.8378	100.168

Label	Replicates Concentration		
Tl 190.794	34.5751	40.7649	37.6829
V 292.401	102.464	102.461	101.653
Zn 206.200	107.638	109.968	111.018

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.6926	ppb	0.1839	0.3	4199.86
Al 308.215	5107.80	ppb	4.4496	0.1	34081.4
As 188.980	99.5998	ppb	2.0290	2.0	60.2565
B 249.678	219.264	ppb	0.7017	0.3	3609.93
Ba 389.178	92.3477	ppb	0.3129	0.3	2006.44
Be 313.042	54.8840	ppb	0.0534	0.1	103160
Ca 370.602	4759	ppb	7.982	0.2	12776
Cd 226.502	50.7703	ppb	0.0362	0.1	2327.34
Co 228.615	51.2703	ppb	0.3885	0.8	615.964
Cr 267.716	106.182	ppb	0.1102	0.1	5791.52
Cu 324.754	103.673	ppb	0.5699	0.5	7183.11
Fe 271.441	5091.67	ppb	5.3735	0.1	8199.66
K 766.491	4993.03	ppb	4.5644	0.1	200939
Mg 279.078	5130.84	ppb	3.8279	0.1	13942.8
Mn 257.610	521.430	ppb	0.4040	0.1	109255
Mo 202.032	96.8231	ppb	0.5170	0.5	658.981
Na 330.237	5100.23	ppb	199.025	3.9	249.891
Ni 231.604	100.535	ppb	0.9249	0.9	313.978
Pb 220.353	482.146	ppb	2.1077	0.4	802.283
Sb 206.834	46.8186	ppb	2.8774	6.1	59.7114
Se 196.026	104.759	ppb	1.4483	1.4	51.7348
Sn 189.925	195.439	ppb	1.9707	1.0	143.121
Sr 216.596	97.7656	ppb	0.2864	0.3	1255.12
Ti 334.941	99.9134	ppb	0.2262	0.2	29113.9
Tl 190.794	37.6743	ppb	3.0949	8.2	30.9805
V 292.401	102.193	ppb	0.4670	0.5	2569.94
Zn 206.200	109.541	ppb	1.7302	1.6	129.105

Cont Calib Verif (CCV) **11/14/2014, 11:24:30 PM** **Rack 2, Tube 49**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	502.169	495.673	500.609
Al 308.215	5097.11	5092.64	5098.45
As 188.980	484.905	478.994	491.787
B 249.678	535.310	536.961	540.721
Ba 389.178	4656.43	4640.08	4637.07
Be 313.042	537.464	537.623	537.673
Ca 370.602	4744	4733	4757
Cd 226.502	500.013	500.199	500.805
Co 228.615	509.816	510.332	510.222
Cr 267.716	5167.24	5164.31	5162.78
Cu 324.754	5199.61	5050.26	5104.55
Fe 271.441	5066.61	5061.28	5077.05
K 766.491	10315.4	10299.3	10278.3
Mg 279.078	5196.11	5184.40	5186.33
Mn 257.610	5105.16	5100.55	5098.83
Mo 202.032	484.634	485.322	485.366
Na 330.237	8089.57	8140.54	8115.45

Label	Replicates Concentration		
Ni 231.604	2527.70	2524.43	2527.48
Pb 220.353	483.646	478.257	482.723
Sb 206.834	909.010	905.692	914.517
Se 196.026	5157.28	5179.43	5195.28
Sn 189.925	4880.25	4831.22	4873.42
Sr 216.596	2471.79	2471.48	2470.99
Ti 334.941	488.265	486.578	487.162
Tl 190.794	4863.38	4875.77	4881.84
V 292.401	4959.58	4948.22	4957.06
Zn 206.200	2641.68	2658.82	2662.07

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.484	ppb	3.3910	0.7	40070.4	99.89671
Al 308.215	5096.07	ppb	3.0436	0.1	34630.5	101.92131
As 188.980	485.229	ppb	6.4027	1.3	317.210	97.04576
B 249.678	537.664	ppb	2.7733	0.5	8819.28	107.53280
Ba 389.178	4644.53	ppb	10.4134	0.2	102042	92.89055
Be 313.042	537.586	ppb	0.1090	0.0	1013507	107.51730
Ca 370.602	4745	ppb	12.10	0.3	13047	94.89632
Cd 226.502	500.339	ppb	0.4141	0.1	22454.3	100.06777
Co 228.615	510.124	ppb	0.2718	0.1	6130.24	102.02476
Cr 267.716	5164.78	ppb	2.2678	0.0	280041	103.29559
Cu 324.754	5118.14	ppb	75.5958	1.5	345058	102.36275
Fe 271.441	5068.31	ppb	8.0190	0.2	8257.47	101.36624
K 766.491	10297.7	ppb	18.6320	0.2	414176	102.97669
Mg 279.078	5188.94	ppb	6.2805	0.1	14006.0	103.77890
Mn 257.610	5101.51	ppb	3.2710	0.1	1067785	102.03021
Mo 202.032	485.107	ppb	0.4107	0.1	3258.90	97.02147
Na 330.237	8115.19	ppb	25.4859	0.3	333.154	108.20252
Ni 231.604	2526.54	ppb	1.8275	0.1	8028.84	101.06148
Pb 220.353	481.542	ppb	2.8818	0.6	805.641	96.30840
Sb 206.834	909.740	ppb	4.4577	0.5	1313.57	90.97395
Se 196.026	5177.33	ppb	19.0873	0.4	2336.93	103.54659
Sn 189.925	4861.63	ppb	26.5556	0.5	3687.93	97.23259
Sr 216.596	2471.42	ppb	0.4063	0.0	31414.6	98.85680
Ti 334.941	487.335	ppb	0.8566	0.2	141950	97.46706
Tl 190.794	4873.66	ppb	9.4108	0.2	5121.43	97.47327
V 292.401	4954.95	ppb	5.9661	0.1	126382	99.09903
Zn 206.200	2654.19	ppb	10.9560	0.4	3118.33	106.16762

Cont Calib Blank (CCB) **11/14/2014, 11:28:47 PM** **Rack 2, Tube 50**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0440u	-0.2265u	0.2563
Al 308.215	5.1995	8.1790	6.3002
As 188.980	-1.5416u	-1.4038u	1.0066
B 249.678	13.7716	12.8093	11.5418
Ba 389.178	0.1121	-0.5876u	-0.3556u
Be 313.042	0.0438	0.0352	0.0391
Ca 370.602	-2.325u	-3.632u	1.253
Cd 226.502	0.2204	0.1778	0.1280
Co 228.615	-0.1454u	-0.3492u	0.1130
Cr 267.716	0.5226	0.5077	0.3540

Label	Replicates Concentration		
Cu 324.754	0.6031	0.7974	0.3403
Fe 271.441	6.9783	4.0863	8.9933
K 766.491	3.1330	3.4087	3.8801
Mg 279.078	0.9998	5.9402	2.5958
Mn 257.610	0.4234	0.3414	0.3303
Mo 202.032	0.0685	0.1128	0.0093
Na 330.237	112.562	26.0152	12.5892
Ni 231.604	2.0947	0.7916	0.6934
Pb 220.353	2.6192	0.3165	2.4873
Sb 206.834	5.7345	3.0095	1.6492
Se 196.026	4.5527	4.2811	0.2223
Sn 189.925	-1.3041u	0.1553	1.6371
Sr 216.596	0.2654	0.7848	0.2782
Ti 334.941	0.1370	0.1658	0.0996
Tl 190.794	0.2531	0.1583	-2.0647u
V 292.401	0.6104	0.2781	0.6023
Zn 206.200	1.5507	0.2261	0.5628

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0047	ppb	0.2438	5139.3	-34.7853	-0.00474
Al 308.215	6.5595	ppb	1.5066	23.0	486.642	6.55954
As 188.980	-0.6463	ppb	1.4331	221.7	-6.5079	-0.64629
B 249.678	12.7076	ppb	1.1184	8.8	249.498	12.70756
Ba 389.178	-0.2770	ppb	0.3564	128.7	-43.7737	-0.27702
Be 313.042	0.0393	ppb	0.0043	11.0	-241.253	0.03934
Ca 370.602	-1.568	ppb	2.529	161.3	18.45	-1.56786
Cd 226.502	0.1754	ppb	0.0463	26.4	37.9634	0.17540
Co 228.615	-0.1272	ppb	0.2317	182.1	-0.9197	-0.12718
Cr 267.716	0.4614	ppb	0.0934	20.2	55.5028	0.46142
Cu 324.754	0.5803	ppb	0.2294	39.5	231.451	0.58027
Fe 271.441	6.6860	ppb	2.4665	36.9	25.4173	6.68598
K 766.491	3.4739	ppb	0.3778	10.9	368.275	3.47392
Mg 279.078	3.1786	ppb	2.5213	79.3	31.6132	3.17859
Mn 257.610	0.3650	ppb	0.0508	13.9	153.025	0.36504
Mo 202.032	0.0635	ppb	0.0519	81.8	10.1530	0.06351
Na 330.237	50.3887	ppb	54.2603	107.7	31.6367	50.38871
Ni 231.604	1.1933	ppb	0.7823	65.6	-2.3001	1.19325
Pb 220.353	1.8077	ppb	1.2931	71.5	15.5463	1.80769
Sb 206.834	3.4644	ppb	2.0803	60.0	-0.2188	3.46440
Se 196.026	3.0187	ppb	2.4255	80.4	5.7590	3.01871
Sn 189.925	0.1628	ppb	1.4706	903.5	-5.2281	0.16277
Sr 216.596	0.4428	ppb	0.2963	66.9	10.5563	0.44281
Ti 334.941	0.1341	ppb	0.0332	24.7	43.8791	0.13410
Tl 190.794	-0.5511	ppb	1.3117	238.0	-8.6522	-0.55112
V 292.401	0.4969	ppb	0.1895	38.1	-6.8543	0.49694
Zn 206.200	0.7799	ppb	0.6885	88.3	1.2909	0.77987

680-107132-a-3-a (Samp) **11/14/2014, 11:33:03 PM** **Rack 2, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0986u	0.3581	-0.1758u
Al 308.215	10.2879	8.3768	9.7104
As 188.980	-3.6711u	-2.7270u	1.2005

Label	Replicates Concentration		
B 249.678	5.7940	5.7004	5.5035
Ba 389.178	-0.0753u	-0.8176u	-1.4776u
Be 313.042	0.0131	0.0180	0.0209
Ca 370.602	-0.6069u	6.411	-6.075u
Cd 226.502	0.1933	0.0603	0.1413
Co 228.615	-1.3279u	-0.1082u	-0.4535u
Cr 267.716	0.4406	0.2356	0.3581
Cu 324.754	0.0759	-0.1843u	-0.2258u
Fe 271.441	1.2235	6.6030	3.6075
K 766.491	3.6525	3.7688	3.5509
Mg 279.078	5.1555	3.5880	3.6884
Mn 257.610	0.3829	0.3356	0.2547
Mo 202.032	-0.6459u	-0.5141u	-0.7221u
Na 330.237	18.6615	281.319	-18.8219u
Ni 231.604	0.1278	-0.7395u	2.1665
Pb 220.353	4.3718	2.2963	3.8485
Sb 206.834	1.2749	2.5944	-2.5570u
Se 196.026	9.5089	-0.8479u	-1.7987u
Sn 189.925	-2.5925u	-1.2943u	-3.0477u
Sr 216.596	0.2031	0.1127	0.1693
Ti 334.941	-0.1102u	-0.1086u	-0.1477u
Tl 190.794	-1.6583u	0.0237	-2.0391u
V 292.401	0.4694	0.2933	0.1541
Zn 206.200	3.1110	4.4979	4.8436

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0279	ppb	0.2886	1035.1	-32.1495
Al 308.215	9.4583	ppb	0.9802	10.4	505.670
As 188.980	-1.7325	ppb	2.5836	149.1	-7.2318
B 249.678	5.6660	ppb	0.1482	2.6	134.546
Ba 389.178	-0.7902	ppb	0.7016	88.8	-55.0508
Be 313.042	0.0173	ppb	0.0039	22.7	-282.706
Ca 370.602	-0.0902	ppb	6.259	6940.2	22.32
Cd 226.502	0.1317	ppb	0.0670	50.9	35.9998
Co 228.615	-0.6299	ppb	0.6287	99.8	-6.9378
Cr 267.716	0.3448	ppb	0.1032	29.9	49.1804
Cu 324.754	-0.1114	ppb	0.1635	146.8	184.820
Fe 271.441	3.8114	ppb	2.6955	70.7	20.7552
K 766.491	3.6574	ppb	0.1090	3.0	375.650
Mg 279.078	4.1440	ppb	0.8775	21.2	34.2355
Mn 257.610	0.3244	ppb	0.0648	20.0	144.526
Mo 202.032	-0.6274	ppb	0.1052	16.8	5.5183
Na 330.237	93.7194	ppb	163.543	174.5	33.4756
Ni 231.604	0.5183	ppb	1.4918	287.8	-4.4461
Pb 220.353	3.5056	ppb	1.0794	30.8	18.3273
Sb 206.834	0.4374	ppb	2.6759	611.7	-4.4019
Se 196.026	2.2874	ppb	6.2720	274.2	5.4297
Sn 189.925	-2.3115	ppb	0.9099	39.4	-7.1077
Sr 216.596	0.1617	ppb	0.0457	28.3	7.0033
Ti 334.941	-0.1222	ppb	0.0221	18.1	-30.7538
Tl 190.794	-1.2246	ppb	1.0977	89.6	-9.3589
V 292.401	0.3056	ppb	0.1580	51.7	-11.6145
Zn 206.200	4.1508	ppb	0.9170	22.1	5.2660

680-107132-a-3-aSD^5 (Samp) **11/14/2014, 11:37:20 PM** **Rack 2, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0185u	0.0276	-0.2585u
Al 308.215	7.4870	9.1092	8.7712
As 188.980	-0.5653u	0.5469	-0.6167u
B 249.678	3.1368	2.9857	2.7235
Ba 389.178	-0.2698u	-1.0499u	-0.7456u
Be 313.042	0.0080	0.0130	0.0201
Ca 370.602	-4.867u	-3.278u	-3.836u
Cd 226.502	0.2420	0.1888	0.1500
Co 228.615	-0.1601u	-0.8515u	-0.3511u
Cr 267.716	0.3745	0.0809	0.1649
Cu 324.754	0.3893	0.1628	-0.1192u
Fe 271.441	4.7364	8.2905	9.0171
K 766.491	4.5289	4.7834	4.1192
Mg 279.078	3.9937	7.9248	4.0312
Mn 257.610	0.1324	0.1911	0.2216
Mo 202.032	-0.2426u	-0.5407u	-0.6211u
Na 330.237	56.5474	-31.6247u	166.887
Ni 231.604	-0.4811u	-0.2662u	-0.2545u
Pb 220.353	2.7540	2.2502	0.5294
Sb 206.834	-0.9215u	-3.3130u	0.8928
Se 196.026	9.0002	-3.7167u	-3.0701u
Sn 189.925	-2.7173u	-2.8059u	-0.9867u
Sr 216.596	0.3171	0.5751	-0.1024u
Ti 334.941	-0.0010u	0.0430	0.0383
Tl 190.794	-0.1076u	-0.0325u	-5.4530u
V 292.401	0.2752	0.0461	0.1059
Zn 206.200	2.3049	2.8910	1.9582

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0831	ppb	0.1536	184.8	-41.0761
Al 308.215	8.4558	ppb	0.8558	10.1	499.049
As 188.980	-0.2117	ppb	0.6574	310.6	-6.2180
B 249.678	2.9487	ppb	0.2091	7.1	90.1815
Ba 389.178	-0.6884	ppb	0.3932	57.1	-52.8137
Be 313.042	0.0137	ppb	0.0061	44.2	-289.564
Ca 370.602	-3.994	ppb	0.8061	20.2	11.89
Cd 226.502	0.1936	ppb	0.0462	23.9	38.7805
Co 228.615	-0.4542	ppb	0.3570	78.6	-4.8316
Cr 267.716	0.2068	ppb	0.1512	73.1	41.6982
Cu 324.754	0.1443	ppb	0.2548	176.5	202.060
Fe 271.441	7.3480	ppb	2.2907	31.2	26.4473
K 766.491	4.4772	ppb	0.3351	7.5	408.603
Mg 279.078	5.3166	ppb	2.2589	42.5	37.4227
Mn 257.610	0.1817	ppb	0.0453	25.0	114.662
Mo 202.032	-0.4681	ppb	0.1994	42.6	6.5867
Na 330.237	63.9364	ppb	99.4618	155.6	32.1970
Ni 231.604	-0.3339	ppb	0.1276	38.2	-7.1567
Pb 220.353	1.8445	ppb	1.1665	63.2	15.6072
Sb 206.834	-1.1139	ppb	2.1095	189.4	-6.5547
Se 196.026	0.7378	ppb	7.1628	970.8	4.7319
Sn 189.925	-2.1700	ppb	1.0257	47.3	-7.0002
Sr 216.596	0.2633	ppb	0.3419	129.9	8.3242

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.0268	ppb	0.0242	90.1	12.6340
Tl 190.794	-1.8644	ppb	3.1081	166.7	-10.0319
V 292.401	0.1424	ppb	0.1188	83.5	-15.8111
Zn 206.200	2.3847	ppb	0.4715	19.8	3.1838

680-107132-a-3-aPDS (Samp) **11/14/2014, 11:41:36 PM** **Rack 2, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	105.289	103.671	104.081
Al 308.215	1045.15	1033.62	1050.01
As 188.980	105.385	104.231	96.5225
B 249.678	214.489	214.927	217.212
Ba 389.178	82.4367	81.8763	82.1040
Be 313.042	109.508	109.297	109.437
Ca 370.602	9701	9684	9659
Cd 226.502	99.6350	99.1417	99.2713
Co 228.615	101.770	101.577	103.005
Cr 267.716	106.620	106.624	106.710
Cu 324.754	104.885	103.417	104.784
Fe 271.441	10252.6	10227.6	10267.6
K 766.491	10271.0	10247.8	10295.0
Mg 279.078	10370.3	10339.7	10364.6
Mn 257.610	1052.76	1051.67	1058.14
Mo 202.032	97.4042	96.8903	97.5170
Na 330.237	9404.81	8905.38	9483.44
Ni 231.604	101.223	101.095	99.0218
Pb 220.353	100.508	97.7983	99.4175
Sb 206.834	97.4877	93.0574	92.2051
Se 196.026	104.864	101.129	105.653
Sn 189.925	94.9865	94.9556	94.7109
Sr 216.596	98.0968	98.3088	97.3956
Ti 334.941	99.9180	99.9501	100.006
Tl 190.794	21.1421	16.2627	20.8892
V 292.401	102.757	102.080	102.043
Zn 206.200	112.937	108.896	109.942

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	104.347	ppb	0.8410	0.8	8353.55
Al 308.215	1042.92	ppb	8.4174	0.8	7324.18
As 188.980	102.046	ppb	4.8185	4.7	61.8536
B 249.678	215.543	ppb	1.4623	0.7	3538.28
Ba 389.178	82.1390	ppb	0.2818	0.3	1796.75
Be 313.042	109.414	ppb	0.1070	0.1	205977
Ca 370.602	9682	ppb	20.83	0.2	25926
Cd 226.502	99.3493	ppb	0.2557	0.3	4526.92
Co 228.615	102.117	ppb	0.7748	0.8	1226.75
Cr 267.716	106.651	ppb	0.0506	0.0	5821.57
Cu 324.754	104.362	ppb	0.8199	0.8	7231.59
Fe 271.441	10249.3	ppb	20.1937	0.2	16489.5
K 766.491	10271.3	ppb	23.6316	0.2	413115
Mg 279.078	10358.2	ppb	16.2345	0.2	28127.9
Mn 257.610	1054.19	ppb	3.4660	0.3	220806
Mo 202.032	97.2705	ppb	0.3340	0.3	661745

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	9264.54	ppb	313.523	3.4	431.375
Ni 231.604	100.446	ppb	1.2354	1.2	314.014
Pb 220.353	99.2412	ppb	1.3634	1.4	175.847
Sb 206.834	94.2501	ppb	2.8361	3.0	125.527
Se 196.026	103.882	ppb	2.4165	2.3	51.5062
Sn 189.925	94.8843	ppb	0.1510	0.2	66.7330
Sr 216.596	97.9338	ppb	0.4779	0.5	1266.45
Ti 334.941	99.9579	ppb	0.0443	0.0	29136.2
Tl 190.794	19.4313	ppb	2.7470	14.1	11.4414
V 292.401	102.293	ppb	0.4024	0.4	2570.66
Zn 206.200	110.592	ppb	2.0970	1.9	130.145

680-107132-a-3-b ms (Samp) **11/14/2014, 11:45:52 PM** **Rack 2, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.2931	52.4089	52.9687
Al 308.215	5058.91	5050.07	5074.29
As 188.980	100.938	91.4855	102.431
B 249.678	213.588	215.289	216.167
Ba 389.178	91.5669	90.4134	91.2094
Be 313.042	54.6273	54.5125	54.7889
Ca 370.602	4701	4703	4721
Cd 226.502	50.1710	49.9921	50.3247
Co 228.615	50.7812	50.8336	50.7791
Cr 267.716	104.924	104.734	104.983
Cu 324.754	103.243	102.921	103.744
Fe 271.441	5042.45	5029.13	5052.94
K 766.491	4951.53	4932.48	4957.66
Mg 279.078	5101.90	5104.63	5129.17
Mn 257.610	514.457	513.636	514.814
Mo 202.032	95.8387	95.2853	97.2966
Na 330.237	5002.52	5272.19	5105.26
Ni 231.604	98.8653	99.4139	99.4655
Pb 220.353	479.886	477.378	478.076
Sb 206.834	48.5663	50.0258	46.9272
Se 196.026	112.152	109.809	108.604
Sn 189.925	186.708	185.644	194.439
Sr 216.596	96.1141	96.2622	96.6764
Ti 334.941	98.0984	97.9412	98.4116
Tl 190.794	36.4959	34.0147	38.9316
V 292.401	100.556	101.800	101.215
Zn 206.200	110.547	111.666	110.172

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.5569	ppb	0.3613	0.7	4189.00
Al 308.215	5061.09	ppb	12.2599	0.2	33773.7
As 188.980	98.2846	ppb	5.9353	6.0	59.3804
B 249.678	215.015	ppb	1.3111	0.6	3540.75
Ba 389.178	91.0632	ppb	0.5905	0.6	1978.13
Be 313.042	54.6429	ppb	0.1389	0.3	102706
Ca 370.602	4708	ppb	11.47	0.2	12640
Cd 226.502	50.1626	ppb	0.1665	0.3	2299.86
Co 228.615	50.7980	ppb	0.0309	0.1	610.270

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	104.880	ppb	0.1302	0.1	5720.89
Cu 324.754	103.303	ppb	0.4149	0.4	7158.12
Fe 271.441	5041.51	ppb	11.9299	0.2	8119.01
K 766.491	4947.22	ppb	13.1322	0.3	199098
Mg 279.078	5111.90	ppb	15.0149	0.3	13891.5
Mn 257.610	514.302	ppb	0.6036	0.1	107763
Mo 202.032	96.1402	ppb	1.0390	1.1	654.404
Na 330.237	5126.66	ppb	136.103	2.7	251.041
Ni 231.604	99.2482	ppb	0.3326	0.3	309.882
Pb 220.353	478.447	ppb	1.2946	0.3	796.222
Sb 206.834	48.5065	ppb	1.5502	3.2	62.0385
Se 196.026	110.188	ppb	1.8039	1.6	54.1778
Sn 189.925	188.931	ppb	4.8004	2.5	138.176
Sr 216.596	96.3509	ppb	0.2915	0.3	1237.04
Ti 334.941	98.1504	ppb	0.2395	0.2	28600.4
Tl 190.794	36.4807	ppb	2.4585	6.7	29.7304
V 292.401	101.191	ppb	0.6224	0.6	2544.53
Zn 206.200	110.795	ppb	0.7773	0.7	130.589

680-107132-a-3-c msd (Samp) **11/14/2014, 11:50:09 PM** **Rack 2, Tube 55**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.2877	53.1454	53.4472
Al 308.215	5219.58	5198.74	5184.77
As 188.980	102.435	111.774	102.255
B 249.678	221.953	220.916	221.849
Ba 389.178	92.7293	91.8782	92.1972
Be 313.042	56.3832	56.2249	56.2203
Ca 370.602	4833	4808	4787
Cd 226.502	51.3806	50.9531	51.2628
Co 228.615	51.6071	51.9787	51.9269
Cr 267.716	108.226	107.303	107.245
Cu 324.754	106.521	105.528	105.902
Fe 271.441	5171.68	5181.73	5169.46
K 766.491	5106.73	5081.01	5079.12
Mg 279.078	5256.62	5242.54	5209.37
Mn 257.610	528.306	526.751	525.899
Mo 202.032	98.3741	97.9037	97.8269
Na 330.237	5386.62	5434.96	5529.20
Ni 231.604	103.132	102.206	101.232
Pb 220.353	487.046	481.053	482.540
Sb 206.834	46.9397	51.5576	46.1609
Se 196.026	113.900	108.296	110.238
Sn 189.925	195.228	189.780	190.578
Sr 216.596	98.6040	98.3420	97.6857
Ti 334.941	101.216	100.820	100.773
Tl 190.794	39.0818	38.9743	34.9411
V 292.401	104.269	103.587	103.896
Zn 206.200	113.222	108.806	112.845

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.2934	ppb	0.1510	0.3	4248.16
Al 308.215	5201.03	ppb	17.5212	0.3	34695.3

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	105.488	ppb	5.4445	5.2	64.1806
B 249.678	221.573	ppb	0.5715	0.3	3647.45
Ba 389.178	92.2682	ppb	0.4300	0.5	2004.98
Be 313.042	56.2761	ppb	0.0927	0.2	105785
Ca 370.602	4810	ppb	23.16	0.5	12911
Cd 226.502	51.1989	ppb	0.2208	0.4	2346.89
Co 228.615	51.8376	ppb	0.2013	0.4	622.774
Cr 267.716	107.592	ppb	0.5505	0.5	5868.00
Cu 324.754	105.984	ppb	0.5015	0.5	7338.89
Fe 271.441	5174.29	ppb	6.5396	0.1	8332.44
K 766.491	5088.95	ppb	15.4237	0.3	204795
Mg 279.078	5236.18	ppb	24.2616	0.5	14228.7
Mn 257.610	526.985	ppb	1.2204	0.2	110419
Mo 202.032	98.0349	ppb	0.2963	0.3	667.106
Na 330.237	5450.26	ppb	72.5087	1.3	265.178
Ni 231.604	102.190	ppb	0.9500	0.9	319.248
Pb 220.353	483.546	ppb	3.1209	0.6	804.580
Sb 206.834	48.2194	ppb	2.9171	6.0	61.6501
Se 196.026	110.811	ppb	2.8458	2.6	54.4624
Sn 189.925	191.862	ppb	2.9426	1.5	140.403
Sr 216.596	98.2105	ppb	0.4730	0.5	1260.87
Ti 334.941	100.936	ppb	0.2432	0.2	29412.0
Tl 190.794	37.6657	ppb	2.3602	6.3	30.9634
V 292.401	103.917	ppb	0.3413	0.3	2613.78
Zn 206.200	111.624	ppb	2.4478	2.2	131.555

680-107155-a-1-a (Samp) **11/14/2014, 11:54:25 PM** **Rack 2, Tube 56**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0973u	-0.6685u	-0.2549u
Al 308.215	38.8832	37.2074	38.6984
As 188.980	234.986	228.887	239.146
B 249.678	76.9314	76.6947	76.3032
Ba 389.178	1797.01	1799.18	1797.59
Be 313.042	-0.1048u	-0.0954u	-0.1033u
Ca 370.602	582666	590521	590866
Cd 226.502	0.1249	-0.1186	-0.0722
Co 228.615	-1.0674u	-1.2816u	-1.0598u
Cr 267.716	0.1428	0.2055	0.2366
Cu 324.754	0.4252	-0.1390	-0.0444
Fe 271.441	38465.2	38403.5	38401.5
K 766.491	6605.36	6603.06	6625.61
Mg 279.078	498454	497709	498160
Mn 257.610	377.006	375.539	375.634
Mo 202.032	3.6459	3.4277	3.0270
Na 330.237	244994x	245919x	243944x
Ni 231.604	3.8030	4.8634	3.7967
Pb 220.353	8.0913	2.5319	1.5962
Sb 206.834	-0.2477	6.8145	-1.7383u
Se 196.026	11.0476	0.6920	9.9261
Sn 189.925	3.1845	-5.9125u	-4.5545u
Sr 216.596	2596.89	2591.30	2587.25
Ti 334.941	-2.1170	-2.0528	-2.0359

Label	Replicates Concentration		
Tl 190.794	-0.5515u	-7.2886u	-3.3470u
V 292.401	0.5019	0.2719u	0.6234
Zn 206.200	9.2421	7.7020	5.6924

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3402b	ppb	0.2950	86.7	-159.205
Al 308.215	38.2630b	ppb	0.9188	2.4	699.575
As 188.980	234.339b	ppb	5.1600	2.2	149.885
B 249.678	76.6431b	ppb	0.3173	0.4	1206.48
Ba 389.178	1797.93b	ppb	1.1256	0.1	40517.5
Be 313.042	-0.1012b	ppb	0.0051	5.0	-335.346
Ca 370.602	588017b	ppb	4638	0.8	1574835
Cd 226.502	-0.0220b	ppb	0.1293	588.0	218.705
Co 228.615	-1.1363b	ppb	0.1259	11.1	-10.3915
Cr 267.716	0.1950b	ppb	0.0478	24.5	66.0121
Cu 324.754	0.0806b	ppb	0.3022	374.9	213.083
Fe 271.441	38423.4b	ppb	36.1997	0.1	61729.0
K 766.491	6611.34b	ppb	12.4065	0.2	265993
Mg 279.078	498108b	ppb	375.269	0.1	1352602
Mn 257.610	376.059b	ppb	0.8209	0.2	82595.4
Mo 202.032	3.3668b	ppb	0.3139	9.3	30.5469
Na 330.237	244953xb	ppb	988.048	0.4	10763.3
Ni 231.604	4.1544b	ppb	0.6141	14.8	10.4702
Pb 220.353	4.0731b	ppb	3.5111	86.2	21.9831
Sb 206.834	1.6095b	ppb	4.5689	283.9	-2.1620
Se 196.026	7.2219b	ppb	5.6828	78.7	8.0793
Sn 189.925	-2.4275b	ppb	4.9073	202.2	-7.1196
Sr 216.596	2591.81b	ppb	4.8379	0.2	33317.8
Ti 334.941	-2.0686b	ppb	0.0428	2.1	270.485
Tl 190.794	-3.7290b	ppb	3.3847	90.8	-17.5386
V 292.401	0.4657b	ppb	0.1785	38.3	-17.8048
Zn 206.200	7.5455b	ppb	1.7800	23.6	7.8039

680-107155-a-2-a (Samp) **11/14/2014, 11:58:42 PM** **Rack 2, Tube 57**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1422	0.4348	0.2553
Al 308.215	96.8757	95.1518	94.9982
As 188.980	92.3281	89.0836	86.7166
B 249.678	24.6272	24.7496	24.0391
Ba 389.178	200.527	202.243	199.686
Be 313.042	-0.0021	-0.0057	-0.0104
Ca 370.602	85120	85224	84939
Cd 226.502	0.0829	0.3533	0.2075
Co 228.615	-0.5194u	-0.0155u	-0.5698u
Cr 267.716	0.2188	0.5345	0.4457
Cu 324.754	0.0262	0.4259	0.4871
Fe 271.441	5669.02	5659.70	5648.60
K 766.491	1120.13	1122.30	1120.71
Mg 279.078	51440.6	51501.6	51405.7
Mn 257.610	60.3803	60.5429	60.3935
Mo 202.032	8.7582	9.0689	8.1090
Na 330.237	37076.1	37172.8	36854.2

Label	Replicates Concentration		
Ni 231.604	2.8519	4.3503	1.2562
Pb 220.353	2.6480	3.6062	4.5180
Sb 206.834	-6.1329u	-0.5834u	-1.4991u
Se 196.026	6.8668	-10.4485u	3.8011
Sn 189.925	-3.9066u	-3.2153u	-2.2861u
Sr 216.596	183.846	184.445	183.580
Ti 334.941	-0.1588	-0.1513	-0.0834
Tl 190.794	-3.2300u	-2.5697u	-5.8563u
V 292.401	-0.2562u	-0.1598u	-0.2997u
Zn 206.200	5.7892	6.7976	8.0202

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2775	ppb	0.1476	53.2	-19.7107
Al 308.215	95.6752	ppb	1.0425	1.1	1074.00
As 188.980	89.3761	ppb	2.8172	3.2	53.4628
B 249.678	24.4720	ppb	0.3798	1.6	428.740
Ba 389.178	200.819	ppb	1.3029	0.6	4484.60
Be 313.042	-0.0060	ppb	0.0042	68.9	-302.485
Ca 370.602	85094	ppb	144.4	0.2	227920
Cd 226.502	0.2146	ppb	0.1353	63.1	67.2264
Co 228.615	-0.3683	ppb	0.3066	83.2	-3.6570
Cr 267.716	0.3997	ppb	0.1628	40.7	55.8588
Cu 324.754	0.3131	ppb	0.2503	80.0	215.997
Fe 271.441	5659.11	ppb	10.2252	0.2	9104.14
K 766.491	1121.05	ppb	1.1252	0.1	45292.7
Mg 279.078	51449.3	ppb	48.5720	0.1	139730
Mn 257.610	60.4389	ppb	0.0903	0.1	13124.8
Mo 202.032	8.6454	ppb	0.4898	5.7	67.4703
Na 330.237	37034.4	ppb	163.357	0.4	1652.22
Ni 231.604	2.8195	ppb	1.5473	54.9	3.3646
Pb 220.353	3.5908	ppb	0.9351	26.0	18.8533
Sb 206.834	-2.7385	ppb	2.9751	108.6	-8.8567
Se 196.026	0.0731	ppb	9.2400	12638.4	4.4963
Sn 189.925	-3.1360	ppb	0.8131	25.9	-7.7227
Sr 216.596	183.957	ppb	0.4433	0.2	2391.58
Ti 334.941	-0.1312	ppb	0.0415	31.7	55.6371
Tl 190.794	-3.8854	ppb	1.7385	44.7	-12.9953
V 292.401	-0.2386	ppb	0.0716	30.0	-28.9287
Zn 206.200	6.8690	ppb	1.1172	16.3	8.2557

680-107155-a-3-a (Samp) **11/15/2014, 12:02:58 AM** **Rack 2, Tube 58**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3871u	-0.2156u	-0.1688u
Al 308.215	147.187	141.059	141.683
As 188.980	17.3646	14.4662	12.3019
B 249.678	241.721	244.268	243.877
Ba 389.178	418.661	420.003	417.306
Be 313.042	0.0085	0.0021	0.0033
Ca 370.602	108955	108630	109108
Cd 226.502	0.3277	0.2770	0.3148
Co 228.615	0.4799	0.2687	-0.1214u
Cr 267.716	0.8914	0.9828	0.9616

Label	Replicates Concentration		
Cu 324.754	1.0145	1.1835	1.1367
Fe 271.441	4367.80	4359.15	4360.12
K 766.491	2607.18	2599.87	2593.89
Mg 279.078	102716	102640	102727
Mn 257.610	115.446	115.605	115.268
Mo 202.032	10.2475	9.9282	9.7540
Na 330.237	93726.7	93635.3	93497.0
Ni 231.604	4.6802	3.7643	3.2405
Pb 220.353	2.8117	1.7028	1.9524
Sb 206.834	-4.6315u	-3.0941u	-0.8941u
Se 196.026	10.2065	3.5299	14.4178
Sn 189.925	-1.9437u	0.1045	-1.3926u
Sr 216.596	999.066	1001.71	999.205
Ti 334.941	1.4173	1.5054	1.2012
Tl 190.794	-4.0469u	-0.9263u	0.0407u
V 292.401	-0.1222u	0.3042	-0.0572u
Zn 206.200	5.1952	7.1211	5.6888

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2572	ppb	0.1149	44.7	-89.3860
Al 308.215	143.310	ppb	3.3722	2.4	1387.50
As 188.980	14.7109	ppb	2.5402	17.3	3.6981
B 249.678	243.289	ppb	1.3717	0.6	4003.03
Ba 389.178	418.657	ppb	1.3482	0.3	9375.22
Be 313.042	0.0046	ppb	0.0034	73.2	-281.725
Ca 370.602	108898	ppb	244.0	0.2	291698
Cd 226.502	0.3065	ppb	0.0264	8.6	65.6262
Co 228.615	0.2091	ppb	0.3050	145.9	3.1882
Cr 267.716	0.9453	ppb	0.0478	5.1	86.1965
Cu 324.754	1.1116	ppb	0.0873	7.8	269.340
Fe 271.441	4362.36	ppb	4.7427	0.1	7021.40
K 766.491	2600.31	ppb	6.6571	0.3	104756
Mg 279.078	102694	ppb	47.2867	0.0	278882
Mn 257.610	115.440	ppb	0.1685	0.1	25012.7
Mo 202.032	9.9766	ppb	0.2503	2.5	76.4599
Na 330.237	93619.7	ppb	115.675	0.1	4134.02
Ni 231.604	3.8950	ppb	0.7287	18.7	6.6726
Pb 220.353	2.1556	ppb	0.5817	27.0	16.4238
Sb 206.834	-2.8732	ppb	1.8784	65.4	-9.0800
Se 196.026	9.3847	ppb	5.4903	58.5	8.6908
Sn 189.925	-1.0773	ppb	1.0599	98.4	-6.1411
Sr 216.596	999.992	ppb	1.4855	0.1	12794.6
Ti 334.941	1.3746	ppb	0.1565	11.4	580.515
Tl 190.794	-1.6442	ppb	2.1363	129.9	-10.4238
V 292.401	0.0416	ppb	0.2297	551.8	-21.3797
Zn 206.200	6.0017	ppb	1.0004	16.7	7.2807

680-107155-a-4-a (Samp) **11/15/2014, 12:07:15 AM** **Rack 2, Tube 59**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9924u	-0.4794u	-1.8709u
Al 308.215	64.3242	68.2228	63.4112
As 188.980	85.7768	84.2101	86.8857

Label	Replicates Concentration		
B 249.678	36.4120	34.4727	35.0894
Ba 389.178	228.033	228.593	227.526
Be 313.042	-0.2186	-0.2368u	-0.2197
Ca 370.602	2521956x	2536459x	2532121x
Cd 226.502	1.6787	2.0236	1.8865
Co 228.615	-3.9763u	-2.6891u	-2.8509u
Cr 267.716	-2.1284	-1.7049	-2.2356
Cu 324.754	-3.9454u	-3.6208u	-3.8235u
Fe 271.441	101244	101515	101537
K 766.491	22186.6	22282.3	22715.9
Mg 279.078	1075926	1077974	1085395
Mn 257.610	743.103	742.863	746.103
Mo 202.032	0.1811u	0.2096u	-0.0900u
Na 330.237	3993656x	4013587x	4025232x
Ni 231.604	2.9469	1.5110	3.0476
Pb 220.353	8.6817	-0.1123	3.0959
Sb 206.834	0.4557	1.1909	3.6372
Se 196.026	15.3011	13.7296	14.4860
Sn 189.925	-1.9182u	-1.5680	-3.5043u
Sr 216.596	3873.08	3874.46	3881.96
Ti 334.941	-1.3391	-1.2289	-1.2476
Tl 190.794	-15.4115u	-19.0118u	-12.3197u
V 292.401	4.1674	4.5510	3.9122
Zn 206.200	7.3978	12.8105	11.3059

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1142b	ppb	0.7037	63.2	-287.031
Al 308.215	65.3194b	ppb	2.5555	3.9	884.936
As 188.980	85.6242b	ppb	1.3443	1.6	50.3379
B 249.678	35.3247b	ppb	0.9909	2.8	389.788
Ba 389.178	228.051b	ppb	0.5335	0.2	7261.62
Be 313.042	-0.2250b	ppb	0.0102	4.5	-298.830
Ca 370.602	2530179xb	ppb	7444	0.3	6776876
Cd 226.502	1.8630b	ppb	0.1736	9.3	589.574
Co 228.615	-3.1721b	ppb	0.7012	22.1	-30.1972
Cr 267.716	-2.0230b	ppb	0.2806	13.9	50.5542
Cu 324.754	-3.7965b	ppb	0.1640	4.3	-23.3947
Fe 271.441	101432b	ppb	163.199	0.2	162931
K 766.491	22395.0b	ppb	282.061	1.3	900465
Mg 279.078	1079765b	ppb	4981.91	0.5	2932058
Mn 257.610	744.023b	ppb	1.8052	0.2	164107
Mo 202.032	0.1002b	ppb	0.1654	165.0	5.7180
Na 330.237	4010825xb	ppb	15968.2	0.4	175900
Ni 231.604	2.5018b	ppb	0.8596	34.4	10.7294
Pb 220.353	3.8884b	ppb	4.4502	114.4	26.1238
Sb 206.834	1.7613b	ppb	1.6657	94.6	-0.7807
Se 196.026	14.5056b	ppb	0.7859	5.4	12.0038
Sn 189.925	-2.3302b	ppb	1.0318	44.3	-5.8698
Sr 216.596	3876.50b	ppb	4.7812	0.1	50566.7
Ti 334.941	-1.2719b	ppb	0.0589	4.6	1245.83
Tl 190.794	-15.5810b	ppb	3.3493	21.5	-39.2101
V 292.401	4.2102b	ppb	0.3215	7.6	36.3543
Zn 206.200	10.5047b	ppb	2.7939	26.6	8.8862

680-107155-a-5-a (Samp) **11/15/2014, 12:11:32 AM** **Rack 2, Tube 60**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3634u	-0.7099u	-0.2219u
Al 308.215	36.3084	34.3655	34.6993
As 188.980	26.6117	16.4997	18.8436
B 249.678	62.7547	63.0805	63.5624
Ba 389.178	436.161	437.443	434.911
Be 313.042	0.0787u	0.0923	0.0735u
Ca 370.602	748012	746339	737028
Cd 226.502	0.5609	0.7298	0.7041
Co 228.615	-0.3104u	-0.9116u	-0.3082u
Cr 267.716	-1.1395	-1.4202	-1.3868
Cu 324.754	-0.2115u	0.2460	-0.1212u
Fe 271.441	14197.2	14202.0	14158.0
K 766.491	150248x	150092x	149541x
Mg 279.078	594051	593991	592799
Mn 257.610	1087.02	1089.50	1084.28
Mo 202.032	6.7830	6.9575	6.1606
Na 330.237	3711328x	3735874x	3729814x
Ni 231.604	4.7450	4.2488	3.4452
Pb 220.353	7.1275	2.0443	6.8302
Sb 206.834	-1.6506u	-2.6970u	-2.4354u
Se 196.026	8.9107	8.6042	7.9516
Sn 189.925	-7.7423u	-0.6627	1.1079
Sr 216.596	2949.15	2959.78	2950.88
Ti 334.941	-1.9040	-2.0237	-1.9453
Tl 190.794	-2.4082u	-10.2408u	-4.8649u
V 292.401	1.9141	1.3790	1.8974
Zn 206.200	13.1594	7.7898	8.9527

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4317b	ppb	0.2511	58.2	-173.296
Al 308.215	35.1244b	ppb	1.0389	3.0	676.542
As 188.980	20.6517b	ppb	5.2929	25.6	7.5949
B 249.678	63.1325b	ppb	0.4063	0.6	1040.90
Ba 389.178	436.172b	ppb	1.2663	0.3	10773.7
Be 313.042	0.0815b	ppb	0.0097	11.9	-330.002
Ca 370.602	743793b	ppb	5918	0.8	1992376
Cd 226.502	0.6649b	ppb	0.0910	13.7	112.856
Co 228.615	-0.5101b	ppb	0.3477	68.2	-4.5838
Cr 267.716	-1.3155b	ppb	0.1534	11.7	43.1820
Cu 324.754	-0.0289b	ppb	0.2423	838.6	196.244
Fe 271.441	14185.7b	ppb	24.1362	0.2	22799.3
K 766.491	149960xb	ppb	371.165	0.2	6028363
Mg 279.078	593614b	ppb	705.619	0.1	1611929
Mn 257.610	1086.93b	ppb	2.6077	0.2	231994
Mo 202.032	6.6337b	ppb	0.4189	6.3	53.5771
Na 330.237	3725672xb	ppb	12786.5	0.3	163413
Ni 231.604	4.1463b	ppb	0.6559	15.8	8.3329
Pb 220.353	5.3340b	ppb	2.8528	53.5	22.5248
Sb 206.834	-2.2610b	ppb	0.5445	24.1	-8.0151
Se 196.026	8.4888b	ppb	0.4899	5.8	8.5970
Sn 189.925	-2.4324b	ppb	4.6830	192.5	-6.0397
Sr 216.596	2953.27b	ppb	5.7014	0.2	37953.3

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	-1.9576b	ppb	0.0608	3.1	198.658
Tl 190.794	-5.8380b	ppb	4.0060	68.6	-15.8042
V 292.401	1.7302b	ppb	0.3042	17.6	-1.1701
Zn 206.200	9.9673b	ppb	2.8249	28.3	11.5830

Cont Calib Verif (CCV) **11/15/2014, 12:15:50 AM** **Rack 3, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	501.113	504.713	507.185
Al 308.215	5143.25	5174.10	5176.85
As 188.980	495.395	500.245	497.409
B 249.678	545.953	553.708	554.883
Ba 389.178	4544.33	4575.35	4581.07
Be 313.042	551.047	551.984	550.946
Ca 370.602	4811	4856	4848
Cd 226.502	500.893	503.375	504.226
Co 228.615	510.774	516.267	515.464
Cr 267.716	5163.88	5193.90	5201.76
Cu 324.754	5197.10	5130.94	5226.70
Fe 271.441	5097.11	5116.96	5120.85
K 766.491	10451.1	10501.9	10509.3
Mg 279.078	5335.85	5359.80	5370.25
Mn 257.610	5072.14	5103.52	5113.12
Mo 202.032	480.705	480.197	482.785
Na 330.237	8496.25	8656.99	8800.36
Ni 231.604	2539.08	2552.65	2550.24
Pb 220.353	484.434	488.700	485.727
Sb 206.834	919.072	929.347	928.033
Se 196.026	5304.12	5338.25	5322.04
Sn 189.925	4887.00	4873.18	4921.87
Sr 216.596	2437.65	2450.52	2457.02
Ti 334.941	483.672	486.518	487.177
Tl 190.794	4855.98	4884.96	4883.70
V 292.401	4961.48	4997.81	4989.29
Zn 206.200	2692.87	2706.52	2701.29

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	504.337	ppb	3.0531	0.6	40461.9	100.86741
Al 308.215	5164.74	ppb	18.6594	0.4	35081.5	103.29471
As 188.980	497.683	ppb	2.4363	0.5	325.514	99.53663
B 249.678	551.515	ppb	4.8523	0.9	9045.40	110.30290Q
Ba 389.178	4566.91	ppb	19.7699	0.4	100337	91.33828
Be 313.042	551.326	ppb	0.5725	0.1	1039413	110.26518Q
Ca 370.602	4839	ppb	24.18	0.5	13297	96.77013
Cd 226.502	502.831	ppb	1.7316	0.3	22566.1	100.56625
Co 228.615	514.168	ppb	2.9669	0.6	6178.85	102.83368
Cr 267.716	5186.52	ppb	19.9901	0.4	281220	103.73030
Cu 324.754	5184.91	ppb	49.0279	0.9	349558	103.69822
Fe 271.441	5111.64	ppb	12.7305	0.2	8327.31	102.23283
K 766.491	10487.4	ppb	31.6433	0.3	421804	104.87424
Mg 279.078	5355.30	ppb	17.6363	0.3	14457.3	107.10596
Mn 257.610	5096.26	ppb	21.4361	0.4	1066688	101.92525
Mo 202.032	481.229	ppb	1.3714	0.3	3232.89	96.24580

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	8651.20	ppb	152.138	1.8	355.806	115.34933Q
Ni 231.604	2547.32	ppb	7.2372	0.3	8094.95	101.89287
Pb 220.353	486.287	ppb	2.1875	0.4	813.417	97.25737
Sb 206.834	925.484	ppb	5.5916	0.6	1335.38	92.54837
Se 196.026	5321.47	ppb	17.0719	0.3	2401.84	106.42942
Sn 189.925	4894.02	ppb	25.0920	0.5	3712.53	97.88033
Sr 216.596	2448.40	ppb	9.8583	0.4	31121.0	97.93600
Ti 334.941	485.789	ppb	1.8626	0.4	141500	97.15782
Tl 190.794	4874.88	ppb	16.3821	0.3	5122.72	97.49760
V 292.401	4982.86	ppb	18.9979	0.4	127097	99.65715
Zn 206.200	2700.23	ppb	6.8857	0.3	3172.63	108.00903

Cont Calib Blank (CCB) **11/15/2014, 12:20:07 AM** **Rack 3, Tube 2**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1115u	0.2325	0.2608
Al 308.215	10.3494	10.1178	10.3452
As 188.980	0.0362	-1.7325u	-0.1270u
B 249.678	11.4631	10.6038	9.6880
Ba 389.178	0.1095	-0.1046u	0.2747
Be 313.042	0.0502	0.0509	0.0603
Ca 370.602	7.982	14.58	26.29
Cd 226.502	0.1544	0.0397	0.1377
Co 228.615	-0.6396u	-0.0498u	-0.4669u
Cr 267.716	0.5548	0.4382	0.5959
Cu 324.754	0.8208	0.8606	1.2748
Fe 271.441	0.1370	9.4830	5.4602
K 766.491	4.5685	4.1066	3.8509
Mg 279.078	14.0463	13.0586	16.3190
Mn 257.610	0.4740	0.5111	0.5317
Mo 202.032	0.1989	-0.6176u	-0.2948u
Na 330.237	-2.4902u	64.0259	-12.1823u
Ni 231.604	0.4890	-0.3194u	0.2685
Pb 220.353	4.1114	2.1899	1.4139
Sb 206.834	5.4089	-0.1225u	3.5686
Se 196.026	6.6950	8.2729	3.0661
Sn 189.925	-3.6152u	-3.6188u	0.0899
Sr 216.596	0.7161	0.2870	0.9354
Ti 334.941	0.1213	0.1082	0.1217
Tl 190.794	0.1940	-2.5386u	-0.6819u
V 292.401	0.9511	0.6589	0.7608
Zn 206.200	0.6448	-0.4664u	2.1066

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1273	ppb	0.2073	162.9	-24.1659	0.12726
Al 308.215	10.2708	ppb	0.1325	1.3	511.103	10.27079
As 188.980	-0.6078	ppb	0.9774	160.8	-6.4822	-0.60781
B 249.678	10.5849	ppb	0.8877	8.4	214.870	10.58495
Ba 389.178	0.0932	ppb	0.1901	204.0	-35.6151	0.09320
Be 313.042	0.0538	ppb	0.0057	10.6	-213.948	0.05379
Ca 370.602	16.28	ppb	9.273	56.9	66.27	16.28369
Cd 226.502	0.1106	ppb	0.0620	56.0	35.0682	0.11062
Co 228.615	-0.3854	ppb	0.3032	78.7	-4.0103	-0.38545

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	0.5296	ppb	0.0818	15.5	59.1993	0.52963
Cu 324.754	0.9854	ppb	0.2514	25.5	258.742	0.98542
Fe 271.441	5.0267	ppb	4.6881	93.3	22.7148	5.02672
K 766.491	4.1754	ppb	0.3637	8.7	396.471	4.17536
Mg 279.078	14.4746	ppb	1.6719	11.6	62.2830	14.47464
Mn 257.610	0.5056	ppb	0.0292	5.8	182.524	0.50557
Mo 202.032	-0.2378	ppb	0.4112	172.9	8.1311	-0.23781
Na 330.237	16.4511	ppb	41.4850	252.2	30.1490	16.45112
Ni 231.604	0.1460	ppb	0.4178	286.1	-5.6299	0.14603
Pb 220.353	2.5717	ppb	1.3887	54.0	16.7978	2.57173
Sb 206.834	2.9517	ppb	2.8169	95.4	-0.9254	2.95168
Se 196.026	6.0113	ppb	2.6699	44.4	7.1066	6.01132
Sn 189.925	-2.3814	ppb	2.1402	89.9	-7.1608	-2.38136
Sr 216.596	0.6461	ppb	0.3298	51.0	13.1651	0.64614
Ti 334.941	0.1171	ppb	0.0077	6.6	38.9410	0.11707
Tl 190.794	-1.0088	ppb	1.3954	138.3	-9.1329	-1.00883
V 292.401	0.7903	ppb	0.1483	18.8	0.6907	0.79028
Zn 206.200	0.7617	ppb	1.2905	169.4	1.2693	0.76168

680-107155-a-6-a (Samp) **11/15/2014, 12:24:24 AM** **Rack 3, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5346u	0.2674u	-0.0109u
Al 308.215	84.2131	87.2893	85.6024
As 188.980	87.1706	90.2231	84.0828
B 249.678	34.5581	33.2497	33.1262
Ba 389.178	223.886	221.396	221.938
Be 313.042	-0.2223	-0.2145	-0.2212
Ca 370.602	2503204x	2487538x	2513529x
Cd 226.502	2.1372	1.7726	1.8011
Co 228.615	-2.7871u	-2.9121u	-3.5627u
Cr 267.716	-2.3459	-1.7823	-2.4205u
Cu 324.754	-3.7639u	-3.5239u	-3.6423u
Fe 271.441	100219	100041	100144
K 766.491	22587.6	22595.9	22651.5
Mg 279.078	1066246	1069212	1064660
Mn 257.610	737.982	734.853	735.309
Mo 202.032	1.2693	0.8103	0.6137u
Na 330.237	3958630x	3954781x	3916328x
Ni 231.604	4.8281	3.4649	2.9788
Pb 220.353	10.5958	14.5028	2.9957
Sb 206.834	-3.6653u	-0.8625	2.3478
Se 196.026	21.2362	38.1834	28.4410
Sn 189.925	-4.8962u	-0.0603	-8.2026u
Sr 216.596	3836.96	3823.96	3830.81
Ti 334.941	-0.6362	-0.8412	-0.8752
Tl 190.794	-7.3140u	-16.8421u	-9.7882u
V 292.401	4.5804	4.6850	4.6451
Zn 206.200	9.4216	10.0632	9.0935

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0927b	ppb	0.4072	439.2	-202.804
Al 308.215	85.7016b	ppb	1.5405	1.8	1018.89

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	87.1588b	ppb	3.0702	3.5	51.3694
B 249.678	33.6447b	ppb	0.7934	2.4	365.384
Ba 389.178	222.407b	ppb	1.3093	0.6	7109.64
Be 313.042	-0.2194b	ppb	0.0043	1.9	-291.207
Ca 370.602	2501424xb	ppb	13087	0.5	6699859
Cd 226.502	1.9036b	ppb	0.2027	10.7	585.242
Co 228.615	-3.0873b	ppb	0.4164	13.5	-29.2841
Cr 267.716	-2.1829b	ppb	0.3489	16.0	39.8230
Cu 324.754	-3.6433b	ppb	0.1200	3.3	-13.5670
Fe 271.441	100135b	ppb	89.5846	0.1	160848
K 766.491	22611.7b	ppb	34.7403	0.2	909178
Mg 279.078	1066706b	ppb	2310.80	0.2	2896597
Mn 257.610	736.048b	ppb	1.6902	0.2	162336
Mo 202.032	0.8978b	ppb	0.3365	37.5	11.1315
Na 330.237	3943246xb	ppb	23391.3	0.6	172936
Ni 231.604	3.7573b	ppb	0.9587	25.5	14.6046
Pb 220.353	9.3648b	ppb	5.8515	62.5	34.9943
Sb 206.834	-0.7267b	ppb	3.0089	414.1	-4.2654
Se 196.026	29.2869b	ppb	8.5052	29.0	18.6462
Sn 189.925	-4.3864b	ppb	4.0950	93.4	-7.4543
Sr 216.596	3830.58b	ppb	6.5029	0.2	49967.1
Ti 334.941	-0.7842b	ppb	0.1293	16.5	1369.99
Tl 190.794	-11.3148b	ppb	4.9441	43.7	-34.5340
V 292.401	4.6368b	ppb	0.0528	1.1	47.9809
Zn 206.200	9.5261b	ppb	0.4932	5.2	7.7841

680-107155-a-7-a (Samp) **11/15/2014, 12:28:41 AM** **Rack 3, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0659u	-0.3079u	0.0640
Al 308.215	15.7264	16.2433	14.3788
As 188.980	0.0378	-4.1951u	1.7893
B 249.678	3.1014	4.1112	2.8635
Ba 389.178	-0.7080u	-1.3433u	-1.0586u
Be 313.042	0.0116	0.0142	0.0089
Ca 370.602	138.8	126.3	126.1
Cd 226.502	0.2286	0.1212	0.3548
Co 228.615	-0.4727u	0.1207	-0.4906u
Cr 267.716	0.5987	0.4290	0.5780
Cu 324.754	0.3274	0.6165	0.5533
Fe 271.441	7.8361	15.2620	4.2772
K 766.491	6.1273	5.8829	5.5431
Mg 279.078	42.4588	46.8919	41.8335
Mn 257.610	0.2503	0.2228	0.2100
Mo 202.032	0.4754	-0.1560u	0.2365
Na 330.237	485.970	601.149	441.840
Ni 231.604	-1.0537u	-0.0452u	-0.3460u
Pb 220.353	4.8273	5.8240	2.9220
Sb 206.834	1.6799	0.5022	-0.7887u
Se 196.026	3.7163	-2.1384u	-0.6607u
Sn 189.925	1.8411	-3.3135u	-1.0656u
Sr 216.596	0.1118	0.9292	0.6513
Ti 334.941	-0.0657u	-0.0748u	-0.0756u

Label	Replicates Concentration		
Tl 190.794	2.8092	1.8243	0.6618
V 292.401	0.4246	0.1557	0.5334
Zn 206.200	3.0166	2.9709	2.5816

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1033	ppb	0.1887	182.8	-42.7072
Al 308.215	15.4495	ppb	0.9626	6.2	545.140
As 188.980	-0.7893	ppb	3.0768	389.8	-6.6033
B 249.678	3.3587	ppb	0.6625	19.7	96.8764
Ba 389.178	-1.0367	ppb	0.3182	30.7	-60.3794
Be 313.042	0.0116	ppb	0.0027	23.1	-293.643
Ca 370.602	130.4	ppb	7.316	5.6	371.8
Cd 226.502	0.2349	ppb	0.1169	49.8	40.6510
Co 228.615	-0.2809	ppb	0.3479	123.8	-2.7689
Cr 267.716	0.5352	ppb	0.0926	17.3	59.5136
Cu 324.754	0.4991	ppb	0.1520	30.5	225.985
Fe 271.441	9.1251	ppb	5.6047	61.4	29.3039
K 766.491	5.8511	ppb	0.2934	5.0	463.834
Mg 279.078	43.7281	ppb	2.7577	6.3	141.724
Mn 257.610	0.2277	ppb	0.0206	9.0	124.590
Mo 202.032	0.1853	ppb	0.3188	172.0	10.9703
Na 330.237	509.653	ppb	82.2529	16.1	51.7225
Ni 231.604	-0.4816	ppb	0.5178	107.5	-7.6260
Pb 220.353	4.5244	ppb	1.4745	32.6	19.9949
Sb 206.834	0.4645	ppb	1.2347	265.8	-4.3735
Se 196.026	0.3057	ppb	3.0446	995.9	4.5374
Sn 189.925	-0.8460	ppb	2.5843	305.5	-5.9943
Sr 216.596	0.5641	ppb	0.4157	73.7	12.2146
Ti 334.941	-0.0720	ppb	0.0055	7.6	-16.1045
Tl 190.794	1.7651	ppb	1.0749	60.9	-6.2209
V 292.401	0.3712	ppb	0.1944	52.4	-10.0907
Zn 206.200	2.8564	ppb	0.2391	8.4	3.7389

680-107155-a-8-a (Samp) **11/15/2014, 12:32:59 AM** **Rack 3, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3059u	0.2864	-0.0067u
Al 308.215	16.6601	18.0657	16.1073
As 188.980	-3.8929u	0.7175	-2.4277u
B 249.678	2.3084	2.3777	2.2832
Ba 389.178	-0.7784u	-1.1300u	-1.3708u
Be 313.042	0.0156	0.0105	0.0071
Ca 370.602	51.76	59.18	54.80
Cd 226.502	0.0028	0.1629	0.1730
Co 228.615	-0.8610u	-0.3991u	0.1807
Cr 267.716	0.5652	0.5575	0.2913
Cu 324.754	0.6981	-0.1526u	0.1538
Fe 271.441	2.8102	17.8883	5.9331
K 766.491	5.0492	5.0972	4.5588
Mg 279.078	13.8316	15.2476	13.0250
Mn 257.610	0.1339	0.1378	0.1676
Mo 202.032	-0.9373u	-0.0536u	-0.6092u
Na 330.237	415.354	357.816	358.298

Label	Replicates Concentration		
Ni 231.604	0.7391	-0.2458u	0.4560
Pb 220.353	3.2509	3.9383	1.2573
Sb 206.834	1.4614	3.2181	2.9160
Se 196.026	2.1744	14.2869	4.3780
Sn 189.925	-0.5332u	1.3347	-0.1610u
Sr 216.596	-0.0044u	0.2183	-0.2695u
Ti 334.941	-0.1299u	-0.0478u	-0.1535u
Tl 190.794	-1.0781u	-4.0207u	-4.1188u
V 292.401	0.0713	0.0348	0.1568
Zn 206.200	4.9204	4.1356	4.5059

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0087	ppb	0.2962	3401.4	-35.0839
Al 308.215	16.9444	ppb	1.0096	6.0	554.925
As 188.980	-1.8677	ppb	2.3557	126.1	-7.3220
B 249.678	2.3231	ppb	0.0489	2.1	80.0005
Ba 389.178	-1.0930	ppb	0.2979	27.3	-61.6767
Be 313.042	0.0111	ppb	0.0043	38.4	-294.467
Ca 370.602	55.25	ppb	3.727	6.7	170.4
Cd 226.502	0.1129	ppb	0.0954	84.5	35.2106
Co 228.615	-0.3598	ppb	0.5219	145.1	-3.6962
Cr 267.716	0.4713	ppb	0.1559	33.1	56.0546
Cu 324.754	0.2331	ppb	0.4308	184.8	208.039
Fe 271.441	8.8772	ppb	7.9585	89.7	28.9144
K 766.491	4.9017	ppb	0.2979	6.1	425.670
Mg 279.078	14.0347	ppb	1.1252	8.0	61.0934
Mn 257.610	0.1465	ppb	0.0184	12.6	107.394
Mo 202.032	-0.5334	ppb	0.4467	83.8	6.1487
Na 330.237	377.156	ppb	33.0811	8.8	45.8795
Ni 231.604	0.3164	ppb	0.5071	160.3	-5.0877
Pb 220.353	2.8155	ppb	1.3925	49.5	17.1981
Sb 206.834	2.5318	ppb	0.9392	37.1	-1.4981
Se 196.026	6.9464	ppb	6.4518	92.9	7.5277
Sn 189.925	0.2135	ppb	0.9887	463.1	-5.1895
Sr 216.596	-0.0185	ppb	0.2442	1318.0	4.7336
Ti 334.941	-0.1104	ppb	0.0555	50.3	-27.3251
Tl 190.794	-3.0725	ppb	1.7279	56.2	-11.3018
V 292.401	0.0876	ppb	0.0626	71.5	-17.2013
Zn 206.200	4.5207	ppb	0.3926	8.7	5.7012

680-107155-c-9-a (Samp) **11/15/2014, 12:37:16 AM** **Rack 3, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5141u	-0.7133u	-0.6448u
Al 308.215	33.2452	30.8206	29.9200
As 188.980	3.2124	-4.8057u	11.4470
B 249.678	1678.46	1684.10	1716.84
Ba 389.178	514.430	520.755	530.673
Be 313.042	1.2317	1.2398	1.2377
Ca 370.602	529267	536309	550399
Cd 226.502	8.4582	8.6257	8.7977
Co 228.615	1.3551	0.5354	0.0894
Cr 267.716	-6.8848	-7.2873	-7.2518

Label	Replicates Concentration		
Cu 324.754	43.0940	41.6961	42.2246
Fe 271.441	257.481	276.344	271.175
K 766.491	1604804o	1560364o	1514082o
Mg 279.078	160352	162975	166331
Mn 257.610	3980.34	4022.19	4088.61
Mo 202.032	6.3448	5.8406	6.5806
Na 330.237	21039756x	20392668x	20470226x
Ni 231.604	23.8456	22.8228	22.4299
Pb 220.353	5.4071	8.0256	-1.1421u
Sb 206.834	0.1777	0.3930	3.1202
Se 196.026	42.1034	40.1510	44.6453
Sn 189.925	-16.6780u	-10.1172u	-10.0066u
Sr 216.596	3628.67	3706.80	3803.72
Ti 334.941	5.0000	5.0068	5.0740
Tl 190.794	-4.2212u	-4.2329u	-3.5743u
V 292.401	5.1704u	5.9273	6.8275
Zn 206.200	138.840	156.242	156.410

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6241b	ppb	0.1012	16.2	-188.752
Al 308.215	31.3286b	ppb	1.7199	5.5	650.063
As 188.980	3.2846b	ppb	8.1266	247.4	-3.8911
B 249.678	1693.13b	ppb	20.7209	1.2	27680.0
Ba 389.178	521.953b	ppb	8.1870	1.6	11765.4
Be 313.042	1.2364b	ppb	0.0042	0.3	-152.921
Ca 370.602	538659b	ppb	10760	2.0	1443069
Cd 226.502	8.6272b	ppb	0.1697	2.0	288.330
Co 228.615	0.6600b	ppb	0.6420	97.3	9.4992
Cr 267.716	-7.1413b	ppb	0.2229	3.1	58.2872
Cu 324.754	42.3382b	ppb	0.7059	1.7	3045.83
Fe 271.441	268.333b	ppb	9.7473	3.6	445.776
K 766.491	1559750oxb	ppb	45364.5	2.9	62699332
Mg 279.078	163220b	ppb	2996.86	1.8	443155
Mn 257.610	4030.38b	ppb	54.5996	1.4	844684
Mo 202.032	6.2553b	ppb	0.3780	6.0	51.6799
Na 330.237	20634218xb	ppb	353342	1.7	904928
Ni 231.604	23.0327b	ppb	0.7309	3.2	67.1843
Pb 220.353	4.0969b	ppb	4.7222	115.3	20.1611
Sb 206.834	1.2303b	ppb	1.6402	133.3	-3.4143
Se 196.026	42.2999b	ppb	2.2536	5.3	24.3568
Sn 189.925	-12.2673b	ppb	3.8202	31.1	-8.2907
Sr 216.596	3713.06b	ppb	87.6916	2.4	47516.1
Ti 334.941	5.0269b	ppb	0.0409	0.8	164.949
Tl 190.794	-4.0095b	ppb	0.3769	9.4	-10.3702
V 292.401	5.9751b	ppb	0.8296	13.9	-11.1945
Zn 206.200	150.497b	ppb	10.0957	6.7	177.813

680-107190-a-50-a (Samp) **11/15/2014, 12:41:34 AM** **Rack 3, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4927u	-0.8977u	-0.4933u
Al 308.215	1000.15	1005.73	1002.81
As 188.980	1.8027	-2.5464u	-1.8800u

Label	Replicates Concentration		
B 249.678	226.357	226.908	225.410
Ba 389.178	45.2137	45.9594	44.5927
Be 313.042	0.0350	0.0416	0.0420
Ca 370.602	36452	36390	36588
Cd 226.502	0.1281	0.2071	-0.1935
Co 228.615	-0.6665u	-0.4326u	-0.2537u
Cr 267.716	1.9932	1.9563	1.6960
Cu 324.754	-0.6142u	-0.4708u	-0.3072u
Fe 271.441	7387.64	7407.67	7392.45
K 766.491	10400.8	10368.3	10336.2
Mg 279.078	10655.8	10689.4	10687.2
Mn 257.610	186.286	186.917	186.544
Mo 202.032	0.3849	0.5542	-0.7650u
Na 330.237	40885.9	41406.2	41356.8
Ni 231.604	3.2807	2.0667	2.3962
Pb 220.353	4.5520	5.8735	6.2334
Sb 206.834	-2.4568u	-3.3854u	0.6345
Se 196.026	5.0097	11.5646	4.7128
Sn 189.925	-5.2241u	-4.4873u	-2.7824u
Sr 216.596	199.553	199.802	200.582
Ti 334.941	13.2097	13.8918	13.7527
Tl 190.794	-1.5278u	0.0026u	-6.4359u
V 292.401	1.7605	1.7656	1.8871
Zn 206.200	11.9258	10.9055	15.7418

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6279	ppb	0.2337	37.2	-91.8825
Al 308.215	1002.90	ppb	2.7906	0.3	7046.09
As 188.980	-0.8745	ppb	2.3424	267.8	-6.7084
B 249.678	226.225	ppb	0.7573	0.3	3717.66
Ba 389.178	45.2553	ppb	0.6843	1.5	984.159
Be 313.042	0.0395	ppb	0.0040	10.0	-232.937
Ca 370.602	36477	ppb	101.0	0.3	97674
Cd 226.502	0.0472	ppb	0.2122	449.2	67.5275
Co 228.615	-0.4509	ppb	0.2070	45.9	-3.9608
Cr 267.716	1.8818	ppb	0.1620	8.6	137.778
Cu 324.754	-0.4640	ppb	0.1536	33.1	163.980
Fe 271.441	7395.92	ppb	10.4545	0.1	11893.7
K 766.491	10368.5	ppb	32.2849	0.3	417022
Mg 279.078	10677.5	ppb	18.7959	0.2	29013.0
Mn 257.610	186.582	ppb	0.3171	0.2	39225.8
Mo 202.032	0.0580	ppb	0.7178	1237.3	9.7735
Na 330.237	41216.3	ppb	287.204	0.7	1835.10
Ni 231.604	2.5812	ppb	0.6278	24.3	2.7620
Pb 220.353	5.5529	ppb	0.8853	15.9	22.2096
Sb 206.834	-1.7359	ppb	2.1047	121.2	-7.2681
Se 196.026	7.0957	ppb	3.8730	54.6	7.7022
Sn 189.925	-4.1646	ppb	1.2524	30.1	-8.5027
Sr 216.596	199.979	ppb	0.5368	0.3	2577.49
Ti 334.941	13.6181	ppb	0.3604	2.6	3987.71
Tl 190.794	-2.6537	ppb	3.3636	126.8	-11.8733
V 292.401	1.8044	ppb	0.0717	4.0	23.8801
Zn 206.200	12.8577	ppb	2.5493	19.8	15.2461

CRI (Samp) **11/15/2014, 12:45:51 AM** **Rack 3, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.4642	10.2869	10.4653
Al 308.215	218.122	216.041	216.070
As 188.980	20.8859	23.7962	20.9669
B 249.678	124.011	122.865	122.800
Ba 389.178	9.3366	8.5676	8.9328
Be 313.042	5.0304	5.0008	4.9995
Ca 370.602	564.8	557.3	559.2
Cd 226.502	6.0929	6.1705	5.8312
Co 228.615	10.4681	11.0621	9.6776
Cr 267.716	11.7988	11.7618	12.0279
Cu 324.754	20.5725	19.7489	19.6099
Fe 271.441	68.8534	63.6250	61.5459
K 766.491	1129.80	1131.57	1123.97
Mg 279.078	608.482	602.928	607.312
Mn 257.610	11.8619	11.8495	11.6992
Mo 202.032	10.0792	10.2682	10.0515
Na 330.237	1349.04	1321.68	1241.98
Ni 231.604	45.3890	48.3787	48.3373
Pb 220.353	14.7480	10.1646	12.8863
Sb 206.834	20.7368	19.9068	23.5543
Se 196.026	32.5172	20.5941	21.1375
Sn 189.925	51.4342	56.8237	59.0515
Sr 216.596	12.5301	12.0430	12.4447
Ti 334.941	10.3491	10.2231	10.3020
Tl 190.794	24.2937	28.6380	18.1172
V 292.401	11.6017	11.3775	11.1596
Zn 206.200	30.3723	28.1224	29.0876

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.4055	ppb	0.1027	1.0	801.690
Al 308.215	216.744	ppb	1.1933	0.6	1871.78
As 188.980	21.8830	ppb	1.6574	7.6	8.5071
B 249.678	123.225	ppb	0.6812	0.6	2053.45
Ba 389.178	8.9457	ppb	0.3847	4.3	160.223
Be 313.042	5.0102	ppb	0.0175	0.3	9130.49
Ca 370.602	560.4	ppb	3.881	0.7	1528
Cd 226.502	6.0315	ppb	0.1778	2.9	300.416
Co 228.615	10.4026	ppb	0.6946	6.7	125.409
Cr 267.716	11.8628	ppb	0.1441	1.2	673.652
Cu 324.754	19.9771	ppb	0.5203	2.6	1538.85
Fe 271.441	64.6748	ppb	3.7652	5.8	119.881
K 766.491	1128.45	ppb	3.9747	0.4	45590.1
Mg 279.078	606.241	ppb	2.9279	0.5	1668.89
Mn 257.610	11.8035	ppb	0.0906	0.8	2551.55
Mo 202.032	10.1330	ppb	0.1179	1.2	77.6956
Na 330.237	1304.23	ppb	55.6215	4.3	86.0509
Ni 231.604	47.3683	ppb	1.7142	3.6	144.541
Pb 220.353	12.5996	ppb	2.3051	18.3	33.2051
Sb 206.834	21.3993	ppb	1.9119	8.9	24.6139
Se 196.026	24.7496	ppb	6.7324	27.2	15.5474
Sn 189.925	55.7698	ppb	3.9165	7.0	37.0158
Sr 216.596	12.3393	ppb	0.2601	2.1	160.930

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	10.2914	ppb	0.0637	0.6	3003.16
Tl 190.794	23.6830	ppb	5.2869	22.3	16.8174
V 292.401	11.3796	ppb	0.2211	1.9	269.123
Zn 206.200	29.1941	ppb	1.1287	3.9	34.7669

mb 680-358269/1-a (Samp) **11/15/2014, 12:50:08 AM** **Rack 3, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2144u	0.0374	-0.2048u
Al 308.215	15.5510	13.7463	11.0032
As 188.980	-2.5086u	0.1307	0.6317
B 249.678	8.3692	6.7414	6.1990
Ba 389.178	-1.9351u	-0.4214u	-0.8256u
Be 313.042	0.0092	0.0145	0.0200
Ca 370.602	19.84	15.29	12.12
Cd 226.502	0.2244	0.1050	0.2142
Co 228.615	-0.8031u	-0.8250u	-0.8187u
Cr 267.716	1.6294	1.3407	1.3293
Cu 324.754	-0.5466u	-0.0588u	-0.2739u
Fe 271.441	18.9040	10.6422	9.7014
K 766.491	27.0166	25.5019	27.4348
Mg 279.078	11.4774	7.7005	9.4445
Mn 257.610	0.1756	0.1856	0.2461
Mo 202.032	-0.4437u	-0.5746u	-0.0089u
Na 330.237	317.506	40.3129	41.5900
Ni 231.604	0.4510	0.2092	1.1159
Pb 220.353	2.9831	3.1885	3.0931
Sb 206.834	0.7264	-1.3190u	-0.7438u
Se 196.026	8.6676	2.7994	3.3690
Sn 189.925	7.9270	4.3181	2.8796
Sr 216.596	0.2726	-0.1692u	0.1364
Ti 334.941	0.1586	0.0063	0.0982
Tl 190.794	-3.4035u	-0.9382u	-3.2337u
V 292.401	-0.7379u	0.3123	-0.3686u
Zn 206.200	5.1836	3.7683	4.0430

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1273	ppb	0.1427	112.1	-44.6320
Al 308.215	13.4335	ppb	2.2900	17.0	531.809
As 188.980	-0.5821	ppb	1.6871	289.9	-6.4650
B 249.678	7.1032	ppb	1.1294	15.9	157.949
Ba 389.178	-1.0607	ppb	0.7838	73.9	-60.9743
Be 313.042	0.0146	ppb	0.0054	37.0	-287.891
Ca 370.602	15.75	ppb	3.881	24.6	64.69
Cd 226.502	0.1812	ppb	0.0662	36.5	38.2800
Co 228.615	-0.8156	ppb	0.0113	1.4	-9.1690
Cr 267.716	1.4331	ppb	0.1701	11.9	108.202
Cu 324.754	-0.2931	ppb	0.2445	83.4	172.586
Fe 271.441	13.0825	ppb	5.0634	38.7	35.6165
K 766.491	26.6511	ppb	1.0169	3.8	1299.96
Mg 279.078	9.5408	ppb	1.8903	19.8	48.8898
Mn 257.610	0.2024	ppb	0.0381	18.8	119.075
Mo 202.032	-0.3424	ppb	0.2961	86.5	7.4296

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	133.136	ppb	159.670	119.9	35.2043
Ni 231.604	0.5920	ppb	0.4695	79.3	-4.2098
Pb 220.353	3.0882	ppb	0.1028	3.3	17.6455
Sb 206.834	-0.4455	ppb	1.0548	236.8	-5.6111
Se 196.026	4.9453	ppb	3.2362	65.4	6.6266
Sn 189.925	5.0416	ppb	2.6003	51.6	-1.5218
Sr 216.596	0.0799	ppb	0.2262	283.1	5.9696
Ti 334.941	0.0877	ppb	0.0767	87.5	30.3747
Tl 190.794	-2.5251	ppb	1.3769	54.5	-10.7288
V 292.401	-0.2647	ppb	0.5328	201.2	-26.2790
Zn 206.200	4.3316	ppb	0.7505	17.3	5.4762

lcs 680-358269/2-a (Samp) **11/15/2014, 12:54:25 AM** **Rack 3, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.8779	53.7680	53.3011
Al 308.215	5290.94	5314.08	5307.31
As 188.980	116.894	113.745	116.061
B 249.678	225.701	228.687	230.186
Ba 389.178	96.5126	96.2128	96.5568
Be 313.042	61.8521	61.9378	61.8375
Ca 370.602	5298	5308	5283
Cd 226.502	58.1467	58.3703	57.8418
Co 228.615	56.5881	56.8146	56.5298
Cr 267.716	116.618	116.150	115.958
Cu 324.754	102.260	102.005	102.246
Fe 271.441	5594.26	5602.13	5580.91
K 766.491	5293.57	5301.62	5311.72
Mg 279.078	5806.57	5832.45	5810.21
Mn 257.610	563.998	564.832	564.605
Mo 202.032	103.770	103.958	102.890
Na 330.237	5668.98	5591.58	5528.86
Ni 231.604	112.795	114.815	112.851
Pb 220.353	544.081	541.817	540.020
Sb 206.834	50.4766	54.8802	53.1620
Se 196.026	126.352	124.403	123.236
Sn 189.925	225.919	219.023	224.897
Sr 216.596	110.075	110.854	110.032
Ti 334.941	102.542	102.654	102.550
Tl 190.794	39.1695	38.3109	36.5312
V 292.401	106.171	106.638	105.289
Zn 206.200	132.457	136.687	133.442

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.3157	ppb	0.4452	0.8	4249.65
Al 308.215	5304.11	ppb	11.8962	0.2	35374.3
As 188.980	115.567	ppb	1.6314	1.4	70.8947
B 249.678	228.191	ppb	2.2833	1.0	3754.59
Ba 389.178	96.4274	ppb	0.1872	0.2	2097.92
Be 313.042	61.8758	ppb	0.0542	0.1	116343
Ca 370.602	5297	ppb	12.49	0.2	14214
Cd 226.502	58.1196	ppb	0.2653	0.5	2658.83
Co 228.615	56.6442	ppb	0.1504	0.3	680.372

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	116.242	ppb	0.3399	0.3	6337.32
Cu 324.754	102.171	ppb	0.1435	0.1	7082.27
Fe 271.441	5592.43	ppb	10.7287	0.2	9004.65
K 766.491	5302.30	ppb	9.0972	0.2	213372
Mg 279.078	5816.41	ppb	14.0096	0.2	15803.5
Mn 257.610	564.478	ppb	0.4308	0.1	118271
Mo 202.032	103.539	ppb	0.5703	0.6	704.013
Na 330.237	5596.47	ppb	70.1914	1.3	271.065
Ni 231.604	113.487	ppb	1.1504	1.0	355.203
Pb 220.353	541.973	ppb	2.0351	0.4	900.275
Sb 206.834	52.8396	ppb	2.2195	4.2	68.0751
Se 196.026	124.664	ppb	1.5739	1.3	60.7117
Sn 189.925	223.280	ppb	3.7218	1.7	164.271
Sr 216.596	110.321	ppb	0.4627	0.4	1415.51
Ti 334.941	102.582	ppb	0.0625	0.1	29892.3
Tl 190.794	38.0039	ppb	1.3457	3.5	31.2675
V 292.401	106.033	ppb	0.6848	0.6	2666.19
Zn 206.200	134.195	ppb	2.2138	1.6	158.133

680-107114-d-13-a (Samp) **11/15/2014, 12:58:42 AM** **Rack 3, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	11.2043	12.3028	11.5474
Al 308.215	135253	136092	136058
As 188.980	22.1270	21.2740	14.2980
B 249.678	18.8635	17.0262	17.1013
Ba 389.178	539.633	542.608	539.461
Be 313.042	5.4742	5.5082	5.4758
Ca 370.602	10363	10406	10379
Cd 226.502	0.7542	0.7951	0.6899
Co 228.615	27.6551	27.5450	28.1207
Cr 267.716	191.555	192.691	191.990
Cu 324.754	127.093	127.152	128.578
Fe 271.441	110314	110695	110666
K 766.491	8087.58	8132.23	8129.72
Mg 279.078	10330.4	10370.8	10354.3
Mn 257.610	1664.14	1669.73	1676.76
Mo 202.032	3.5506	2.9298	3.7418
Na 330.237	155.365u	219.708u	-6.8682u
Ni 231.604	54.2822	54.5392	54.7002
Pb 220.353	390.114	391.398	388.924
Sb 206.834	3.6316	0.8040	3.2899
Se 196.026	22.0201	10.8254	9.5407
Sn 189.925	34.2222	32.8744	33.1219
Sr 216.596	54.6116	53.5692	53.4136
Ti 334.941	2885.63	2903.52	2900.79
Tl 190.794	0.3958u	3.0300u	8.7762u
V 292.401	359.273	361.693	360.298
Zn 206.200	350.639	354.514	357.076

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	11.6848	ppb	0.5620	4.8	894.573
Al 308.215	135801	ppb	475.017	0.3	894420

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	19.2330	ppb	4.2951	22.3	6.0192
B 249.678	17.6637	ppb	1.0398	5.9	80.5444
Ba 389.178	540.568	ppb	1.7692	0.3	11945.4
Be 313.042	5.4861	ppb	0.0192	0.3	10060.7
Ca 370.602	10383	ppb	22.03	0.2	28012
Cd 226.502	0.7464	ppb	0.0530	7.1	588.474
Co 228.615	27.7736	ppb	0.3056	1.1	406.718
Cr 267.716	192.079	ppb	0.5732	0.3	10510.1
Cu 324.754	127.608	ppb	0.8410	0.7	8831.00
Fe 271.441	110559	ppb	212.337	0.2	177597
K 766.491	8116.51	ppb	25.0873	0.3	326498
Mg 279.078	10351.8	ppb	20.3403	0.2	28047.4
Mn 257.610	1670.21	ppb	6.3247	0.4	350017
Mo 202.032	3.4074	ppb	0.4245	12.5	27.1036
Na 330.237	122.735	ppb	116.759	95.1	4.0219
Ni 231.604	54.5072	ppb	0.2108	0.4	176.914
Pb 220.353	390.145	ppb	1.2375	0.3	656.041
Sb 206.834	2.5752	ppb	1.5434	59.9	2.8954
Se 196.026	14.1287	ppb	6.8642	48.6	12.1156
Sn 189.925	33.4062	ppb	0.7175	2.1	20.0260
Sr 216.596	53.8648	ppb	0.6514	1.2	846.944
Ti 334.941	2896.64	ppb	9.6378	0.3	843684
Tl 190.794	4.0673	ppb	4.2855	105.4	-18.8827
V 292.401	360.421	ppb	1.2147	0.3	9169.46
Zn 206.200	354.076	ppb	3.2404	0.9	413.213

680-107114-d-13-aSD (Samp) **11/15/2014, 1:03:00 AM** **Rack 3, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	2.7102	2.2984	1.9536
Al 308.215	30440.4	29137.0	27773.2
As 188.980	6.1402	-5.0306u	2.6788
B 249.678	5.8586	5.3860	5.8747
Ba 389.178	119.767	115.051	109.036
Be 313.042	1.1832	1.1429	1.0930
Ca 370.602	2300	2217	2106
Cd 226.502	0.1898	0.2462	0.2288
Co 228.615	5.6110	6.7875	4.8935
Cr 267.716	43.1335	41.5381	39.5129
Cu 324.754	28.8059	27.2441	25.4857
Fe 271.441	24846.8	23811.5	22714.7
K 766.491	1693.79	1632.30	1570.96
Mg 279.078	2353.70	2257.36	2151.95
Mn 257.610	375.255	359.224	343.061
Mo 202.032	0.6189	1.4651	0.3260
Na 330.237	-76.6682u	139.933u	137.817u
Ni 231.604	13.5519	10.2707	12.9897
Pb 220.353	89.4566	84.6991	79.1622
Sb 206.834	1.1647	-0.3849	-1.4367u
Se 196.026	18.1154	-2.7115u	19.2659
Sn 189.925	1.0536	4.0566	4.8115
Sr 216.596	12.4549	11.3971	11.7522
Ti 334.941	657.706	630.276	601.136

Label	Replicates Concentration		
Tl 190.794	-1.9037u	2.0488u	-1.0035u
V 292.401	80.4168	77.7141	73.7448
Zn 206.200	80.6893	78.7691	77.4813

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.3207	ppb	0.3788	16.3	149.931
Al 308.215	29116.9	ppb	1333.68	4.6	192120
As 188.980	1.2628	ppb	5.7184	452.8	-5.3912
B 249.678	5.7065	ppb	0.2776	4.9	81.4741
Ba 389.178	114.618	ppb	5.3782	4.7	2503.50
Be 313.042	1.1397	ppb	0.0451	4.0	1840.38
Ca 370.602	2208	ppb	97.46	4.4	5977
Cd 226.502	0.2216	ppb	0.0289	13.0	152.961
Co 228.615	5.7640	ppb	0.9563	16.6	85.5921
Cr 267.716	41.3948	ppb	1.8146	4.4	2288.94
Cu 324.754	27.1786	ppb	1.6611	6.1	2032.35
Fe 271.441	23791.0	ppb	1066.23	4.5	38228.4
K 766.491	1632.35	ppb	61.4122	3.8	65846.1
Mg 279.078	2254.33	ppb	100.910	4.5	6126.16
Mn 257.610	359.180	ppb	16.0970	4.5	75331.7
Mo 202.032	0.8033	ppb	0.5915	73.6	13.9371
Na 330.237	67.0273	ppb	124.448	185.7	25.6892
Ni 231.604	12.2708	ppb	1.7548	14.3	35.0085
Pb 220.353	84.4393	ppb	5.1521	6.1	151.842
Sb 206.834	-0.2190	ppb	1.3086	597.6	-4.3897
Se 196.026	11.5566	ppb	12.3699	107.0	9.8948
Sn 189.925	3.3072	ppb	1.9879	60.1	-2.8394
Sr 216.596	11.8681	ppb	0.5383	4.5	189.645
Ti 334.941	629.706	ppb	28.2892	4.5	183413
Tl 190.794	-0.2861	ppb	2.0716	724.1	-11.6198
V 292.401	77.2919	ppb	3.3560	4.3	1951.05
Zn 206.200	78.9799	ppb	1.6144	2.0	92.4967

Cont Calib Verif (CCV) **11/15/2014, 1:07:17 AM** **Rack 3, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	514.013	513.870	514.195
Al 308.215	5223.23	5254.36	5243.25
As 188.980	532.158	533.166	528.883
B 249.678	572.766	579.813	581.961
Ba 389.178	4709.99	4734.77	4727.73
Be 313.042	595.603	598.570	598.588
Ca 370.602	5112	5142	5102
Cd 226.502	551.318	554.160	552.956
Co 228.615	552.963	553.745	553.378
Cr 267.716	5510.41	5531.83	5527.95
Cu 324.754	5116.63	5079.27	5020.62
Fe 271.441	5458.33	5466.62	5460.89
K 766.491	10688.1	10755.4	10739.4
Mg 279.078	5702.77	5742.99	5737.59
Mn 257.610	5398.61	5418.67	5437.87
Mo 202.032	504.243	506.169	506.242
Na 330.237	8557.93	8628.93	8858.61

Label	Replicates Concentration		
Ni 231.604	2747.30	2769.13	2752.27
Pb 220.353	523.778	527.913	518.695
Sb 206.834	940.785	954.302	951.961
Se 196.026	5714.85	5759.10	5727.03
Sn 189.925	5306.88	5331.98	5348.36
Sr 216.596	2678.06	2681.04	2680.52
Ti 334.941	493.951	497.786	496.779
Tl 190.794	5146.85	5174.58	5140.17
V 292.401	5106.48	5137.79	5116.69
Zn 206.200	3153.55	3164.58	3168.64

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	514.026	ppb	0.1627	0.0	41234.2	102.80516
Al 308.215	5240.28	ppb	15.7729	0.3	35603.8	104.80560
As 188.980	531.402	ppb	2.2394	0.4	347.981	106.28047
B 249.678	578.180	ppb	4.8098	0.8	9480.25	115.63601Q
Ba 389.178	4724.16	ppb	12.7665	0.3	103793	94.48325
Be 313.042	597.587	ppb	1.7180	0.3	1126646	119.51742Q
Ca 370.602	5119	ppb	20.54	0.4	14058	102.37483
Cd 226.502	552.811	ppb	1.4264	0.3	24805.4	110.56226Q
Co 228.615	553.362	ppb	0.3912	0.1	6649.42	110.67232Q
Cr 267.716	5523.40	ppb	11.4150	0.2	299485	110.46795Q
Cu 324.754	5072.17	ppb	48.3938	1.0	341959	101.44346
Fe 271.441	5461.95	ppb	4.2396	0.1	8896.48	109.23895
K 766.491	10727.6	ppb	35.1578	0.3	431459	107.27615
Mg 279.078	5727.78	ppb	21.8279	0.4	15462.8	114.55566Q
Mn 257.610	5418.38	ppb	19.6305	0.4	1134105	108.36764
Mo 202.032	505.551	ppb	1.1339	0.2	3395.85	101.11027
Na 330.237	8681.82	ppb	157.165	1.8	348.126	115.75763Q
Ni 231.604	2756.23	ppb	11.4425	0.4	8759.32	110.24920Q
Pb 220.353	523.462	ppb	4.6170	0.9	874.614	104.69236
Sb 206.834	949.016	ppb	7.2234	0.8	1372.18	94.90160
Se 196.026	5733.66	ppb	22.8561	0.4	2587.51	114.67323Q
Sn 189.925	5329.08	ppb	20.8901	0.4	4043.04	106.58154
Sr 216.596	2679.87	ppb	1.5943	0.1	34063.7	107.19487
Ti 334.941	496.172	ppb	1.9883	0.4	144524	99.23445
Tl 190.794	5153.87	ppb	18.2442	0.4	5416.23	103.07733
V 292.401	5120.32	ppb	15.9705	0.3	130592	102.40639
Zn 206.200	3162.26	ppb	7.8078	0.2	3716.60	126.49024Q

Cont Calib Blank (CCB) **11/15/2014, 1:11:35 AM** **Rack 3, Tube 14**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1314	-0.2679u	0.0050
Al 308.215	13.0514	6.9169	12.4768
As 188.980	0.9216	0.3105	1.5075
B 249.678	13.4207	11.8188	11.2816
Ba 389.178	0.5867	-0.7760u	0.1780
Be 313.042	0.0392	0.0488	0.0565
Ca 370.602	-4.492u	-5.740u	-5.390u
Cd 226.502	0.3370	0.1540	0.2656
Co 228.615	-0.7556u	-1.3687u	-0.5727u
Cr 267.716	0.5449	0.6599	0.4682

Label	Replicates Concentration		
Cu 324.754	0.1385	0.3053	0.3590
Fe 271.441	9.8464	6.2232	4.0412
K 766.491	11.4438	11.4554	11.4387
Mg 279.078	8.1166	4.6872	3.1594
Mn 257.610	0.4818	0.4732	0.4931
Mo 202.032	-0.4822u	0.0008	0.8561
Na 330.237	74.5994	-20.6120u	41.6264
Ni 231.604	-0.0963u	1.3093	-0.7560u
Pb 220.353	-0.1835u	2.5548	4.4517
Sb 206.834	-3.0821u	5.0809	2.7120
Se 196.026	6.9744	-3.3470u	0.3080
Sn 189.925	-3.4835u	-5.2269u	-4.7416u
Sr 216.596	0.6020	0.3746	1.0828
Ti 334.941	0.1625	0.1581	0.2506
Tl 190.794	-2.0816u	-2.6186u	-1.3917u
V 292.401	0.9905	0.5659	0.4682
Zn 206.200	2.9624	1.6585	1.6212

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0438	ppb	0.2041	465.8	-37.9189	-0.04381
Al 308.215	10.8150	ppb	3.3881	31.3	514.700	10.81501
As 188.980	0.9132	ppb	0.5986	65.5	-5.4684	0.91317
B 249.678	12.1737	ppb	1.1128	9.1	240.767	12.17369
Ba 389.178	-0.0038	ppb	0.6993	18494.9	-37.7606	-0.00378
Be 313.042	0.0482	ppb	0.0087	18.0	-224.567	0.04819
Ca 370.602	-5.207	ppb	0.6440	12.4	8.691	-5.20732
Cd 226.502	0.2522	ppb	0.0923	36.6	41.4205	0.25220
Co 228.615	-0.8990	ppb	0.4169	46.4	-10.1818	-0.89897
Cr 267.716	0.5577	ppb	0.0965	17.3	60.7212	0.55768
Cu 324.754	0.2676	ppb	0.1150	43.0	210.380	0.26758
Fe 271.441	6.7036	ppb	2.9323	43.7	25.3670	6.70358
K 766.491	11.4460	ppb	0.0085	0.1	688.737	11.44598
Mg 279.078	5.3210	ppb	2.5386	47.7	37.4280	5.32105
Mn 257.610	0.4827	ppb	0.0100	2.1	177.676	0.48269
Mo 202.032	0.1249	ppb	0.6777	542.6	10.5644	0.12490
Na 330.237	31.8713	ppb	48.3495	151.7	30.8196	31.87135
Ni 231.604	0.1523	ppb	1.0549	692.6	-5.6088	0.15231
Pb 220.353	2.2743	ppb	2.3303	102.5	16.3107	2.27435
Sb 206.834	1.5703	ppb	4.1995	267.4	-2.8430	1.57025
Se 196.026	1.3118	ppb	5.2334	399.0	4.9904	1.31178
Sn 189.925	-4.4840	ppb	0.8998	20.1	-8.7581	-4.48399
Sr 216.596	0.6865	ppb	0.3616	52.7	13.7013	0.68648
Ti 334.941	0.1904	ppb	0.0522	27.4	60.2830	0.19042
Tl 190.794	-2.0306	ppb	0.6150	30.3	-10.2089	-2.03064
V 292.401	0.6748	ppb	0.2777	41.1	-2.3297	0.67484
Zn 206.200	2.0807	ppb	0.7638	36.7	2.8243	2.08069

680-107114-d-13-aPDS (Samp) **11/15/2014, 1:15:52 AM** **Rack 3, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	117.976	118.715	117.532
Al 308.215	136431	136307	135859
As 188.980	134.681	126.965	128.103

Label	Replicates Concentration		
B 249.678	242.994	244.201	242.594
Ba 389.178	610.691	610.124	608.216
Be 313.042	124.318	124.312	123.841
Ca 370.602	20166	20094	20008
Cd 226.502	108.972	108.270	107.610
Co 228.615	136.707	136.099	136.223
Cr 267.716	296.412	296.059	294.687
Cu 324.754	232.095	232.808	232.851
Fe 271.441	117978	117830	117322
K 766.491	19066.6	19107.2	19028.0
Mg 279.078	21288.4	21281.3	21209.7
Mn 257.610	2730.72	2731.08	2716.89
Mo 202.032	102.772	102.038	101.676
Na 330.237	10327.9	10672.7	10610.9
Ni 231.604	160.386	158.402	158.539
Pb 220.353	481.661	476.047	479.781
Sb 206.834	103.696	105.897	98.3744
Se 196.026	123.392	127.214	120.080
Sn 189.925	131.403	132.748	140.231
Sr 216.596	155.457	154.666	153.327
Ti 334.941	2944.71	2944.06	2937.27
Tl 190.794	21.9865	26.8852	24.0484
V 292.401	456.336	455.213	455.130
Zn 206.200	458.962	465.196	457.236

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	118.074	ppb	0.5976	0.5	9446.97
Al 308.215	136199	ppb	300.844	0.2	897059
As 188.980	129.916	ppb	4.1655	3.2	79.7263
B 249.678	243.263	ppb	0.8366	0.3	3747.79
Ba 389.178	609.677	ppb	1.2967	0.2	13492.4
Be 313.042	124.157	ppb	0.2737	0.2	233808
Ca 370.602	20089	ppb	78.94	0.4	53990
Cd 226.502	108.284	ppb	0.6812	0.6	5437.57
Co 228.615	136.343	ppb	0.3216	0.2	1708.94
Cr 267.716	295.720	ppb	0.9111	0.3	16136.4
Cu 324.754	232.585	ppb	0.4244	0.2	15910.7
Fe 271.441	117710	ppb	343.930	0.3	189097
K 766.491	19067.2	ppb	39.6321	0.2	766697
Mg 279.078	21259.8	ppb	43.5055	0.2	57645.4
Mn 257.610	2726.23	ppb	8.0922	0.3	571125
Mo 202.032	102.162	ppb	0.5581	0.5	689.223
Na 330.237	10537.2	ppb	183.835	1.7	457.136
Ni 231.604	159.109	ppb	1.1080	0.7	509.962
Pb 220.353	479.163	ppb	2.8578	0.6	802.380
Sb 206.834	102.656	ppb	3.8678	3.8	141.413
Se 196.026	123.562	ppb	3.5700	2.9	61.6946
Sn 189.925	134.794	ppb	4.7566	3.5	97.0515
Sr 216.596	154.483	ppb	1.0769	0.7	2138.33
Ti 334.941	2942.01	ppb	4.1235	0.1	856918
Tl 190.794	24.3067	ppb	2.4596	10.1	1.9282
V 292.401	455.560	ppb	0.6738	0.1	11577.1
Zn 206.200	460.465	ppb	4.1874	0.9	538.150

680-107114-d-13-b ms (Samp) **11/15/2014, 1:20:09 AM** **Rack 3, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.8042	55.1241	55.0941
Al 308.215	167523	167906	167721
As 188.980	117.731	114.038	122.445
B 249.678	203.123	203.073	204.888
Ba 389.178	462.681	463.424	460.764
Be 313.042	65.8791	65.7686	65.6944
Ca 370.602	10435	10416	10398
Cd 226.502	53.6150	54.1250	53.6923
Co 228.615	74.2680	74.5837	73.6271
Cr 267.716	381.822	381.265	381.305
Cu 324.754	217.081	216.212	214.042
Fe 271.441	116060	115937	115867
K 766.491	12462.2	12476.9	12474.1
Mg 279.078	14559.7	14589.7	14607.9
Mn 257.610	1139.61	1139.63	1137.93
Mo 202.032	92.1175	92.0900	90.9959
Na 330.237	5804.25	5832.54	5874.19
Ni 231.604	170.767	172.863	172.256
Pb 220.353	684.082	689.560	694.706
Sb 206.834	23.7556	24.0432	26.4408
Se 196.026	113.100	114.039	100.004
Sn 189.925	215.690	218.417	222.421
Sr 216.596	131.466	130.890	132.288
Ti 334.941	2797.47	2796.06	2787.97
Tl 190.794	41.9929	40.5057	43.9126
V 292.401	701.736	700.716	700.911
Zn 206.200	314.577	318.711	323.233

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.3408	ppb	0.4016	0.7	4398.51
Al 308.215	167717	ppb	191.335	0.1	1104557
As 188.980	118.071	ppb	4.2141	3.6	71.8445
B 249.678	203.695	ppb	1.0336	0.5	3104.69
Ba 389.178	462.289	ppb	1.3727	0.3	10239.5
Be 313.042	65.7807	ppb	0.0929	0.1	123754
Ca 370.602	10416	ppb	18.50	0.2	27999
Cd 226.502	53.8108	ppb	0.2748	0.5	2990.85
Co 228.615	74.1596	ppb	0.4874	0.7	959.636
Cr 267.716	381.464	ppb	0.3105	0.1	20774.9
Cu 324.754	215.778	ppb	1.5653	0.7	14773.7
Fe 271.441	115955	ppb	97.9130	0.1	186272
K 766.491	12471.1	ppb	7.8220	0.1	501544
Mg 279.078	14585.7	ppb	24.3562	0.2	39543.2
Mn 257.610	1139.06	ppb	0.9772	0.1	238903
Mo 202.032	91.7345	ppb	0.6398	0.7	619.081
Na 330.237	5836.99	ppb	35.1826	0.6	254.128
Ni 231.604	171.962	ppb	1.0786	0.6	550.866
Pb 220.353	689.449	ppb	5.3129	0.8	1145.97
Sb 206.834	24.7465	ppb	1.4743	6.0	34.6951
Se 196.026	109.048	ppb	7.8464	7.2	54.7863
Sn 189.925	218.843	ppb	3.3858	1.5	160.900
Sr 216.596	131.548	ppb	0.7024	0.5	1839.51

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	2793.83	ppb	5.1284	0.2	813750
Tl 190.794	42.1371	ppb	1.7080	4.1	20.3905
V 292.401	701.121	ppb	0.5417	0.1	17854.4
Zn 206.200	318.840	ppb	4.3294	1.4	371.035

680-107114-d-13-c ms (Samp) **11/15/2014, 1:24:26 AM** **Rack 3, Tube 17**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	62.3844	62.0613	62.0390
Al 308.215	174790	175165	175142
As 188.980	127.581	129.764	118.565
B 249.678	202.911	203.045	204.702
Ba 389.178	646.698	647.591	648.162
Be 313.042	66.7012	66.9005	66.9432
Ca 370.602	14811	14863	14848
Cd 226.502	54.8682	55.3551	55.4859
Co 228.615	82.6498	82.1933	82.6369
Cr 267.716	343.822	345.102	343.949
Cu 324.754	238.268	235.519	237.146
Fe 271.441	114009	114468	114316
K 766.491	13992.6	14014.2	14036.2
Mg 279.078	15818.5	15845.9	15828.5
Mn 257.610	1931.53	1933.56	1931.23
Mo 202.032	91.3056	93.5802	92.9133
Na 330.237	5847.56	5791.20	6101.28
Ni 231.604	170.855	169.126	169.831
Pb 220.353	824.875	829.080	826.398
Sb 206.834	19.7187	23.1049	20.5528
Se 196.026	111.645	117.975	127.249
Sn 189.925	223.139	228.716	225.055
Sr 216.596	152.993	154.250	153.334
Ti 334.941	2922.38	2927.80	2934.22
Tl 190.794	42.6055	39.3751	39.5910
V 292.401	506.955	508.976	509.216
Zn 206.200	443.393	448.395	442.382

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	62.1616	ppb	0.1933	0.3	4949.88
Al 308.215	175032	ppb	209.924	0.1	1152687
As 188.980	125.303	ppb	5.9367	4.7	76.6779
B 249.678	203.552	ppb	0.9974	0.5	3106.69
Ba 389.178	647.484	ppb	0.7378	0.1	14309.3
Be 313.042	66.8483	ppb	0.1292	0.2	125758
Ca 370.602	14841	ppb	26.92	0.2	39939
Cd 226.502	55.2364	ppb	0.3255	0.6	3045.19
Co 228.615	82.4934	ppb	0.2599	0.3	1062.21
Cr 267.716	344.291	ppb	0.7051	0.2	18764.7
Cu 324.754	236.978	ppb	1.3822	0.6	16204.2
Fe 271.441	114264	ppb	233.501	0.2	183557
K 766.491	14014.4	ppb	21.8182	0.2	563580
Mg 279.078	15831.0	ppb	13.8713	0.1	42905.4
Mn 257.610	1932.11	ppb	1.2666	0.1	404878
Mo 202.032	92.5997	ppb	1.1693	1.3	625.182

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	5913.35	ppb	165.175	2.8	255.488
Ni 231.604	169.937	ppb	0.8692	0.5	544.237
Pb 220.353	826.784	ppb	2.1292	0.3	1370.66
Sb 206.834	21.1255	ppb	1.7643	8.4	29.1618
Se 196.026	118.956	ppb	7.8486	6.6	59.4109
Sn 189.925	225.637	ppb	2.8340	1.3	166.061
Sr 216.596	153.526	ppb	0.6497	0.4	2118.67
Ti 334.941	2928.14	ppb	5.9273	0.2	852868
Tl 190.794	40.5239	ppb	1.8060	4.5	19.0924
V 292.401	508.383	ppb	1.2419	0.2	12928.6
Zn 206.200	444.723	ppb	3.2198	0.7	519.622

680-107114-d-11-a (Samp) **11/15/2014, 1:28:43 AM** **Rack 3, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7709u	-0.6477u	-0.9859u
Al 308.215	220566	220882	221273
As 188.980	19.9346	21.5991	20.0357
B 249.678	15.5696u	17.0556u	15.5321u
Ba 389.178	765.188	764.691	765.027
Be 313.042	16.8203	16.8367	16.8027
Ca 370.602	2939	2948	2967
Cd 226.502	-3.0452	-3.1547	-3.4069
Co 228.615	76.7904	77.3589	78.8484
Cr 267.716	274.987	274.927	274.538
Cu 324.754	212.954	214.358	212.567
Fe 271.441	255594	255670	255665
K 766.491	29953.5	30058.8	29975.4
Mg 279.078	33129.2	33151.9	33179.9
Mn 257.610	3483.28	3485.99	3480.66
Mo 202.032	2.2745	3.4984	2.1428
Na 330.237	32.8015u	236.096u	42.4457u
Ni 231.604	80.4621	78.4593	78.7428
Pb 220.353	157.335	161.172	165.303
Sb 206.834	-2.8412	3.2428	-2.5824
Se 196.026	-13.4746u	1.8227	4.2442
Sn 189.925	13.0267	15.8607	19.5363
Sr 216.596	18.5719	17.7544	18.8403
Ti 334.941	8678.57	8703.39	8694.16
Tl 190.794	8.7965u	6.8438u	14.1168u
V 292.401	660.648	661.651	661.529
Zn 206.200	409.060	410.762	409.036

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8015	ppb	0.1712	21.4	-121.974
Al 308.215	220907	ppb	354.090	0.2	1454693
As 188.980	20.5231	ppb	0.9332	4.5	5.9305
B 249.678	16.0524	ppb	0.8690	5.4	-273.384
Ba 389.178	764.969	ppb	0.2538	0.0	17033.0
Be 313.042	16.8199	ppb	0.0170	0.1	31446.8
Ca 370.602	2952	ppb	14.27	0.5	9159
Cd 226.502	-3.2023	ppb	0.1855	5.8	1096.51
Co 228.615	77.6659	ppb	1.0628	1.4	1145.37

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	274.817	ppb	0.2436	0.1	15084.8
Cu 324.754	213.293	ppb	0.9423	0.4	14658.8
Fe 271.441	255643	ppb	42.4062	0.0	410636
K 766.491	29995.9	ppb	55.5589	0.2	1206008
Mg 279.078	33153.7	ppb	25.3839	0.1	89895.2
Mn 257.610	3483.31	ppb	2.6631	0.1	730052
Mo 202.032	2.6386	ppb	0.7476	28.3	14.9335
Na 330.237	103.781	ppb	114.689	110.5	-29.3122
Ni 231.604	79.2214	ppb	1.0838	1.4	268.082
Pb 220.353	161.270	ppb	3.9850	2.5	287.438
Sb 206.834	-0.7269	ppb	3.4403	473.3	1.9854
Se 196.026	-2.4692	ppb	9.6075	389.1	6.3323
Sn 189.925	16.1412	ppb	3.2639	20.2	6.9097
Sr 216.596	18.3888	ppb	0.5656	3.1	591.580
Ti 334.941	8692.04	ppb	12.5447	0.1	2531642
Tl 190.794	9.9190	ppb	3.7642	37.9	-32.8949
V 292.401	661.276	ppb	0.5474	0.1	16849.5
Zn 206.200	409.619	ppb	0.9898	0.2	472.977

680-107114-d-12-a (Samp) **11/15/2014, 1:33:01 AM** **Rack 3, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.2498u	-2.3984u	-1.5340u
Al 308.215	258657	258337	258539
As 188.980	26.2116	18.6693	14.5072
B 249.678	9.4575u	9.5037u	9.4181u
Ba 389.178	1036.00	1037.01	1035.85
Be 313.042	22.2926	22.2381	22.2540
Ca 370.602	1923	1902	1910
Cd 226.502	-3.3200	-3.5536	-3.5784
Co 228.615	97.7896	97.5781	98.2967
Cr 267.716	314.327	314.191	313.330
Cu 324.754	186.763	185.714	185.353
Fe 271.441	279270	278723	278256
K 766.491	49838.2x	49931.6x	49765.1x
Mg 279.078	52564.5	52426.6	52505.7
Mn 257.610	4421.77	4412.01	4388.63
Mo 202.032	2.3280	1.7261u	2.3346
Na 330.237	-87.4814u	30.6415u	-171.018u
Ni 231.604	103.030	102.288	101.002
Pb 220.353	153.389	147.842	147.885
Sb 206.834	-5.7245	5.2416	-5.3776
Se 196.026	-3.8272	5.6262	-1.3299
Sn 189.925	20.9679	16.1381	23.8662
Sr 216.596	25.3920	24.2363	25.0871
Ti 334.941	12265.6	12262.5	12264.5
Tl 190.794	14.2678u	11.4079u	12.8832u
V 292.401	678.262	678.066	677.247
Zn 206.200	480.837	477.281	480.283

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.7274b	ppb	0.5982	34.6	-195.832
Al 308.215	258511b	ppb	161.752	0.1	1702229

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	19.7960b	ppb	5.9330	30.0	5.2963
B 249.678	9.4598b	ppb	0.0429	0.5	-432.577
Ba 389.178	1036.29b	ppb	0.6315	0.1	23051.4
Be 313.042	22.2616b	ppb	0.0280	0.1	41708.6
Ca 370.602	1912b	ppb	10.63	0.6	7655
Cd 226.502	-3.4840b	ppb	0.1425	4.1	1187.34
Co 228.615	97.8881b	ppb	0.3693	0.4	1469.00
Cr 267.716	313.949b	ppb	0.5406	0.2	17230.0
Cu 324.754	185.943b	ppb	0.7322	0.4	12824.5
Fe 271.441	278750b	ppb	507.776	0.2	447752
K 766.491	49845.0xb	ppb	83.4704	0.2	2003905
Mg 279.078	52498.9b	ppb	69.1892	0.1	142393
Mn 257.610	4407.47b	ppb	17.0296	0.4	923672
Mo 202.032	2.1296b	ppb	0.3494	16.4	10.4476
Na 330.237	-75.9527b	ppb	101.323	133.4	-43.5622
Ni 231.604	102.107b	ppb	1.0262	1.0	342.818
Pb 220.353	149.705b	ppb	3.1900	2.1	267.872
Sb 206.834	-1.9535b	ppb	6.2335	319.1	1.1984
Se 196.026	0.1564b	ppb	4.8988	3132.8	7.9271
Sn 189.925	20.3240b	ppb	3.9041	19.2	10.0872
Sr 216.596	24.9051b	ppb	0.5989	2.4	705.063
Ti 334.941	12264.2b	ppb	1.6071	0.0	3572065
Tl 190.794	12.8530b	ppb	1.4302	11.1	-32.6769
V 292.401	677.858b	ppb	0.5385	0.1	17289.0
Zn 206.200	479.467b	ppb	1.9132	0.4	554.375

680-107114-d-14-a (Samp) **11/15/2014, 1:37:18 AM** **Rack 3, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3882u	-0.3991u	-1.0183u
Al 308.215	96708.2	96473.2	96454.6
As 188.980	11.7040	7.9507	-2.9798u
B 249.678	5.0113	4.4933	4.6457
Ba 389.178	194.711	193.716	193.261
Be 313.042	3.6293	3.6243	3.6034
Ca 370.602	197.8	191.9	200.5
Cd 226.502	-0.0932	-0.0471	-0.0025
Co 228.615	5.5208	5.0877	4.5279
Cr 267.716	236.742	236.504	236.120
Cu 324.754	49.7291	50.5620	50.4180
Fe 271.441	21366.1	21321.5	21287.2
K 766.491	2968.19	2969.33	2953.86
Mg 279.078	3129.05	3132.48	3128.02
Mn 257.610	96.4336	96.5725	96.5473
Mo 202.032	0.2180	0.2466	1.0771
Na 330.237	283.605	299.688	110.736u
Ni 231.604	22.4890	22.8661	21.8031
Pb 220.353	90.3192	89.6082	88.6127
Sb 206.834	1.7894	-0.9973	3.0174
Se 196.026	6.9517	7.0297	2.4898
Sn 189.925	13.3773	9.0020	9.9913
Sr 216.596	12.1229	12.3522	12.9903
Ti 334.941	1173.20	1170.31	1168.57

Label	Replicates Concentration		
Tl 190.794	2.3521u	1.0605u	1.0854u
V 292.401	220.095	218.967	218.861
Zn 206.200	70.3720	72.7252	69.5026

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6019	ppb	0.3607	59.9	-85.2154
Al 308.215	96545.4	ppb	141.346	0.1	635991
As 188.980	5.5583	ppb	7.6287	137.2	-2.5114
B 249.678	4.7168	ppb	0.2662	5.6	70.8949
Ba 389.178	193.896	ppb	0.7412	0.4	4245.65
Be 313.042	3.6190	ppb	0.0137	0.4	6528.69
Ca 370.602	196.7	ppb	4.385	2.2	834.2
Cd 226.502	-0.0476	ppb	0.0454	95.3	128.073
Co 228.615	5.0454	ppb	0.4978	9.9	89.3105
Cr 267.716	236.455	ppb	0.3141	0.1	12863.3
Cu 324.754	50.2363	ppb	0.4452	0.9	3583.33
Fe 271.441	21324.9	ppb	39.5294	0.2	34268.8
K 766.491	2963.79	ppb	8.6187	0.3	119368
Mg 279.078	3129.85	ppb	2.3379	0.1	8483.61
Mn 257.610	96.5178	ppb	0.0740	0.1	20360.5
Mo 202.032	0.5139	ppb	0.4879	94.9	11.9599
Na 330.237	231.343	ppb	104.758	45.3	33.5944
Ni 231.604	22.3861	ppb	0.5390	2.4	66.9928
Pb 220.353	89.5134	ppb	0.8572	1.0	158.831
Sb 206.834	1.2698	ppb	2.0572	162.0	0.0871
Se 196.026	5.4904	ppb	2.5989	47.3	7.0822
Sn 189.925	10.7902	ppb	2.2945	21.3	2.8454
Sr 216.596	12.4885	ppb	0.4495	3.6	193.002
Ti 334.941	1170.69	ppb	2.3411	0.2	340979
Tl 190.794	1.4993	ppb	0.7386	49.3	-9.2798
V 292.401	219.308	ppb	0.6841	0.3	5578.84
Zn 206.200	70.8666	ppb	1.6672	2.4	82.5945

680-107114-d-15-a (Samp) **11/15/2014, 1:41:36 AM** **Rack 3, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.6280u	-0.9679u	-0.3623u
Al 308.215	230602	232022	230794
As 188.980	32.7153	29.2805	36.1403
B 249.678	12.2386u	12.3610u	12.5904u
Ba 389.178	504.117	504.888	502.965
Be 313.042	6.9467	6.9773	6.9351
Ca 370.602	1563	1566	1559
Cd 226.502	-1.5103	-1.6748	-1.5109
Co 228.615	64.8690	65.3373	63.9717
Cr 267.716	174.208	175.204	173.785
Cu 324.754	113.788	114.578	111.841
Fe 271.441	158507	159472	158350
K 766.491	11367.8	11405.0	11340.1
Mg 279.078	14798.1	14905.7	14825.8
Mn 257.610	2105.70	2115.78	2101.03
Mo 202.032	5.8161	4.1617	4.0652
Na 330.237	-283.216u	51.5746u	-186.487u

Label	Replicates Concentration		
Ni 231.604	57.7200	57.3414	56.8913
Pb 220.353	3304.75	3327.20	3296.12
Sb 206.834	7.9162	4.8958	6.7372
Se 196.026	15.6941	-0.4419	-15.9128u
Sn 189.925	12.1691	14.3824	7.5747
Sr 216.596	26.5404	28.2069	27.2025
Ti 334.941	4623.60	4646.60	4615.83
Tl 190.794	7.7443u	9.6015u	7.3895u
V 292.401	364.763	366.897	365.827
Zn 206.200	271.807	275.046	267.085

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9861	ppb	0.6330	64.2	-128.264
Al 308.215	231139	ppb	770.245	0.3	1521998
As 188.980	32.7120	ppb	3.4299	10.5	14.6897
B 249.678	12.3967	ppb	0.1786	1.4	-113.928
Ba 389.178	503.990	ppb	0.9676	0.2	11187.2
Be 313.042	6.9530	ppb	0.0218	0.3	12830.0
Ca 370.602	1562	ppb	3.510	0.2	4648
Cd 226.502	-1.5653	ppb	0.0948	6.1	712.239
Co 228.615	64.7260	ppb	0.6940	1.1	892.177
Cr 267.716	174.399	ppb	0.7290	0.4	9581.37
Cu 324.754	113.403	ppb	1.4086	1.2	7892.76
Fe 271.441	158776	ppb	607.480	0.4	255047
K 766.491	11371.0	ppb	32.5526	0.3	457322
Mg 279.078	14843.2	ppb	55.8737	0.4	40198.4
Mn 257.610	2107.50	ppb	7.5410	0.4	441706
Mo 202.032	4.6810	ppb	0.9842	21.0	33.4253
Na 330.237	-139.376	ppb	172.296	123.6	-16.2625
Ni 231.604	57.3176	ppb	0.4148	0.7	189.994
Pb 220.353	3309.36	ppb	16.0423	0.5	5436.89
Sb 206.834	6.5164	ppb	1.5223	23.4	8.9666
Se 196.026	-0.2202	ppb	15.8046	7176.8	6.1790
Sn 189.925	11.3754	ppb	3.4726	30.5	3.2894
Sr 216.596	27.3166	ppb	0.8391	3.1	571.233
Ti 334.941	4628.68	ppb	16.0042	0.3	1348154
Tl 190.794	8.2451	ppb	1.1880	14.4	-21.3499
V 292.401	365.829	ppb	1.0667	0.3	9303.04
Zn 206.200	271.313	ppb	4.0033	1.5	313.828

680-107114-d-16-a (Samp) **11/15/2014, 1:45:53 AM** **Rack 3, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-2.9108u	-2.1240u	-2.1497u
Al 308.215	256557	256161	254757
As 188.980	10.9557	1.9474	7.2535
B 249.678	2.7179u	2.0647u	2.3060u
Ba 389.178	1143.65	1142.49	1137.02
Be 313.042	7.8607	7.8726	7.8185
Ca 370.602	125.8	113.3	117.5
Cd 226.502	0.2674	0.2823	0.2892
Co 228.615	76.8917	78.4599	78.6033
Cr 267.716	9.5235	9.5292	9.4947

Label	Replicates Concentration		
Cu 324.754	205.753	206.914	203.717
Fe 271.441	37704.1	37654.5	37420.6
K 766.491	8095.45	8069.20	8023.38
Mg 279.078	4205.69	4210.22	4184.44
Mn 257.610	6021.35	5993.34	5955.53
Mo 202.032	4.8087	3.4874	3.3109
Na 330.237	228.829u	135.120u	362.883
Ni 231.604	27.1334	25.9759	26.7305
Pb 220.353	229.744	224.802	225.787
Sb 206.834	-1.7306u	7.4224	2.9862
Se 196.026	1.1731	3.4580	-1.1798
Sn 189.925	6.9615	9.9004	12.2199
Sr 216.596	9.0738	9.2255	9.2159
Ti 334.941	1511.39	1509.82	1501.62
Tl 190.794	2.2881	6.9629	1.7591u
V 292.401	65.0332	65.1146	64.1282
Zn 206.200	290.444	293.864	293.184

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.3948	ppb	0.4470	18.7	-202.452
Al 308.215	255825	ppb	945.734	0.4	1684442
As 188.980	6.7188	ppb	4.5279	67.4	-1.8450
B 249.678	2.3629	ppb	0.3302	14.0	-4.1639
Ba 389.178	1141.05	ppb	3.5416	0.3	25071.1
Be 313.042	7.8506	ppb	0.0284	0.4	14510.7
Ca 370.602	118.9	ppb	6.338	5.3	748.1
Cd 226.502	0.2796	ppb	0.0111	4.0	219.899
Co 228.615	77.9850	ppb	0.9495	1.2	972.885
Cr 267.716	9.5158	ppb	0.0185	0.2	599.020
Cu 324.754	205.462	ppb	1.6183	0.8	14052.6
Fe 271.441	37593.1	ppb	151.395	0.4	60405.2
K 766.491	8062.68	ppb	36.4791	0.5	324334
Mg 279.078	4200.12	ppb	13.7658	0.3	11208.1
Mn 257.610	5990.07	ppb	33.0314	0.6	1253830
Mo 202.032	3.8690	ppb	0.8185	21.2	33.8837
Na 330.237	242.277	ppb	114.475	47.2	26.2312
Ni 231.604	26.6132	ppb	0.5876	2.2	81.7414
Pb 220.353	226.778	ppb	2.6155	1.2	383.264
Sb 206.834	2.8927	ppb	4.5772	158.2	-0.2709
Se 196.026	1.1504	ppb	2.3190	201.6	6.6001
Sn 189.925	9.6939	ppb	2.6353	27.2	2.0125
Sr 216.596	9.1717	ppb	0.0850	0.9	172.967
Ti 334.941	1507.61	ppb	5.2454	0.3	439117
Tl 190.794	3.6701	ppb	2.8639	78.0	-6.5925
V 292.401	64.7587	ppb	0.5475	0.8	1631.23
Zn 206.200	292.497	ppb	1.8107	0.6	343.799

680-107114-a-18-a (Samp) **11/15/2014, 1:50:10 AM** **Rack 3, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1546u	0.7467	0.2337u
Al 308.215	276903	276282	276381
As 188.980	30.7551	27.2465	32.8083

Label	Replicates Concentration		
B 249.678	12.2565u	13.0891u	12.9416u
Ba 389.178	549.999	548.915	550.224
Be 313.042	7.3333	7.3235	7.3188
Ca 370.602	4548	4530	4557
Cd 226.502	0.5949	0.4218	0.6499
Co 228.615	82.8743	81.8848	82.0861
Cr 267.716	318.293	317.111	317.039
Cu 324.754	163.887	162.319	162.266
Fe 271.441	273889	273031	273069
K 766.491	12640.1	12583.9	12601.9
Mg 279.078	14596.4	14569.2	14663.5
Mn 257.610	3026.70	3017.01	3022.55
Mo 202.032	2.7062	4.2929	5.2496
Na 330.237	68.2480u	-91.7490u	44.0194u
Ni 231.604	61.2858	62.4791	60.6629
Pb 220.353	198.655	202.871	198.236
Sb 206.834	-4.0962	2.7982	-2.5417
Se 196.026	10.6980	2.9745	5.9424
Sn 189.925	13.6280	21.5129	26.2645
Sr 216.596	27.0088	26.8040	26.3706
Ti 334.941	5547.84	5534.65	5549.42
Tl 190.794	2.4857u	2.0886u	5.0556u
V 292.401	757.808	756.615	756.509
Zn 206.200	365.350	358.672	362.493

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3784	ppb	0.3214	85.0	-31.6665
Al 308.215	276522	ppb	333.396	0.1	1820796
As 188.980	30.2700	ppb	2.8125	9.3	12.3130
B 249.678	12.7624	ppb	0.4443	3.5	-366.565
Ba 389.178	549.712	ppb	0.6998	0.1	12278.6
Be 313.042	7.3252	ppb	0.0074	0.1	13556.3
Ca 370.602	4545	ppb	13.63	0.3	11932
Cd 226.502	0.5555	ppb	0.1190	21.4	1353.89
Co 228.615	82.2817	ppb	0.5230	0.6	1131.75
Cr 267.716	317.481	ppb	0.7043	0.2	17396.9
Cu 324.754	162.824	ppb	0.9206	0.6	11263.5
Fe 271.441	273329	ppb	484.582	0.2	439044
K 766.491	12608.7	ppb	28.7071	0.2	507074
Mg 279.078	14609.7	ppb	48.5480	0.3	39528.3
Mn 257.610	3022.09	ppb	4.8642	0.2	633439
Mo 202.032	4.0829	ppb	1.2846	31.5	23.7213
Na 330.237	6.8395	ppb	86.2353	1260.8	-36.3198
Ni 231.604	61.4760	ppb	0.9229	1.5	213.198
Pb 220.353	199.921	ppb	2.5637	1.3	352.754
Sb 206.834	-1.2799	ppb	3.6163	282.5	2.0271
Se 196.026	6.5383	ppb	3.8961	59.6	10.4411
Sn 189.925	20.4684	ppb	6.3827	31.2	10.1970
Sr 216.596	26.7278	ppb	0.3259	1.2	723.011
Ti 334.941	5543.97	ppb	8.1077	0.1	1614746
Tl 190.794	3.2100	ppb	1.6106	50.2	-42.6459
V 292.401	756.977	ppb	0.7213	0.1	19265.7
Zn 206.200	362.172	ppb	3.3505	0.9	416.270

680-107114-c-19-a (Samp) **11/15/2014, 1:54:27 AM** **Rack 3, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4798u	-0.0754u	0.2640u
Al 308.215	275862	275674	276366
As 188.980	29.4064	32.9772	31.5787
B 249.678	9.7960u	9.3677u	9.6995u
Ba 389.178	450.601	451.297	451.048
Be 313.042	9.0164	9.0081	9.0258
Ca 370.602	4423	4423	4436
Cd 226.502	-3.4146	-3.6229	-3.4083
Co 228.615	67.7538	67.7899	67.8779
Cr 267.716	602.375	601.925	602.798
Cu 324.754	164.059	164.402	166.851
Fe 271.441	346795	346573	346707
K 766.491	11224.3	11194.7	11225.9
Mg 279.078	12774.1	12758.1	12774.6
Mn 257.610	2720.16	2712.84	2712.80
Mo 202.032	3.4476	3.3452	4.9837
Na 330.237	306.814u	606.098u	536.274u
Ni 231.604	50.1074	51.9922	51.6728
Pb 220.353	121.753	122.649	122.776
Sb 206.834	-4.9204	-6.8850	-7.0868
Se 196.026	19.6929	6.7803	12.5915
Sn 189.925	20.3131	15.8582	13.7876
Sr 216.596	21.7045	20.2896	21.3938
Ti 334.941	5639.60	5644.21	5652.85
Tl 190.794	10.5250u	7.3428u	8.7172u
V 292.401	819.643	819.979	821.744
Zn 206.200	237.770	238.293	236.344

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0970	ppb	0.3724	383.7	-83.0218
Al 308.215	275967	ppb	357.723	0.1	1817163
As 188.980	31.3207	ppb	1.7993	5.7	12.5340
B 249.678	9.6211	ppb	0.2247	2.3	-583.441
Ba 389.178	450.982	ppb	0.3526	0.1	10160.9
Be 313.042	9.0168	ppb	0.0089	0.1	16747.6
Ca 370.602	4427	ppb	7.784	0.2	10944
Cd 226.502	-3.4820	ppb	0.1221	3.5	1524.06
Co 228.615	67.8072	ppb	0.0638	0.1	966.265
Cr 267.716	602.366	ppb	0.4365	0.1	32876.8
Cu 324.754	165.104	ppb	1.5226	0.9	11445.3
Fe 271.441	346692	ppb	112.033	0.0	556875
K 766.491	11215.0	ppb	17.5681	0.2	451049
Mg 279.078	12768.9	ppb	9.3813	0.1	34536.3
Mn 257.610	2715.27	ppb	4.2393	0.2	569424
Mo 202.032	3.9255	ppb	0.9178	23.4	19.2187
Na 330.237	483.062	ppb	156.577	32.4	-28.7378
Ni 231.604	51.2575	ppb	1.0087	2.0	187.140
Pb 220.353	122.393	ppb	0.5580	0.5	231.015
Sb 206.834	-6.2974	ppb	1.1968	19.0	-0.0412
Se 196.026	13.0215	ppb	6.4670	49.7	13.9396
Sn 189.925	16.6530	ppb	3.3346	20.0	7.2985
Sr 216.596	21.1293	ppb	0.7436	3.5	753.338

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	5645.55	ppb	6.7308	0.1	1644337
Tl 190.794	8.8617	ppb	1.5960	18.0	-47.7554
V 292.401	820.455	ppb	1.1284	0.1	20852.1
Zn 206.200	237.469	ppb	1.0087	0.4	265.803

Cont Calib Verif (CCV) **11/15/2014, 1:58:44 AM** **Rack 3, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	516.367	512.906	508.608
Al 308.215	5338.96	5330.81	5288.48
As 188.980	543.472	538.941	532.982
B 249.678	587.820	589.872	588.428
Ba 389.178	4612.14	4601.48	4563.50
Be 313.042	592.672	591.798	584.054
Ca 370.602	4936	4948	4905
Cd 226.502	538.066	538.138	534.051
Co 228.615	541.573	542.537	538.696
Cr 267.716	5416.18	5410.99	5367.37
Cu 324.754	5225.12	5241.58	5211.11
Fe 271.441	5395.53	5390.41	5358.23
K 766.491	10984.7	10960.8	10832.8
Mg 279.078	5700.13	5692.64	5640.48
Mn 257.610	5362.16	5334.70	5290.97
Mo 202.032	496.711	496.651	493.532
Na 330.237	8613.01	8795.35	8786.24
Ni 231.604	2704.05	2705.71	2681.94
Pb 220.353	508.058	510.948	499.016
Sb 206.834	947.608	952.837	953.970
Se 196.026	5744.88	5733.28	5728.32
Sn 189.925	5188.34	5198.66	5167.93
Sr 216.596	2581.44	2580.57	2559.34
Ti 334.941	497.204	495.594	490.937
Tl 190.794	5021.58	5045.95	5001.49
V 292.401	5094.35	5093.05	5044.29
Zn 206.200	3015.61	3025.77	3000.95

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	512.627	ppb	3.8871	0.8	41124.5	102.52534
Al 308.215	5319.42	ppb	27.1000	0.5	36117.2	106.38837
As 188.980	538.465	ppb	5.2612	1.0	352.692	107.69295
B 249.678	588.707	ppb	1.0538	0.2	9652.21	117.74131Q
Ba 389.178	4592.37	ppb	25.5677	0.6	100897	91.84748
Be 313.042	589.508	ppb	4.7435	0.8	1111411	117.90160Q
Ca 370.602	4929	ppb	22.21	0.5	13549	98.58894
Cd 226.502	536.752	ppb	2.3395	0.4	24086.1	107.35032
Co 228.615	540.935	ppb	1.9984	0.4	6500.31	108.18701
Cr 267.716	5398.18	ppb	26.8074	0.5	292696	107.96358
Cu 324.754	5225.94	ppb	15.2530	0.3	352321	104.51877
Fe 271.441	5381.39	ppb	20.2195	0.4	8765.00	107.62772
K 766.491	10926.1	ppb	81.6782	0.7	439438	109.26105
Mg 279.078	5677.75	ppb	32.4976	0.6	15328.6	113.55500Q
Mn 257.610	5329.28	ppb	35.9014	0.7	1115457	106.58551
Mo 202.032	495.631	ppb	1.8182	0.4	3329.36	99.12627

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	8731.53	ppb	102.746	1.2	353.157	116.42043Q
Ni 231.604	2697.23	ppb	13.2737	0.5	8571.70	107.88929
Pb 220.353	506.007	ppb	6.2249	1.2	845.929	101.20144
Sb 206.834	951.472	ppb	3.3936	0.4	1374.21	95.14717
Se 196.026	5735.49	ppb	8.5022	0.1	2588.32	114.70982Q
Sn 189.925	5184.98	ppb	15.6343	0.3	3933.57	103.69954
Sr 216.596	2573.78	ppb	12.5169	0.5	32714.0	102.95135
Ti 334.941	494.578	ppb	3.2547	0.7	144060	98.91566
Tl 190.794	5023.00	ppb	22.2646	0.4	5278.62	100.46010
V 292.401	5077.23	ppb	28.5312	0.6	129497	101.54458
Zn 206.200	3014.11	ppb	12.4764	0.4	3542.19	120.56445Q

Cont Calib Blank (CCB) **11/15/2014, 2:03:02 AM** **Rack 3, Tube 26**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3808u	0.3598	0.1649
Al 308.215	17.8564	17.9424	19.3897
As 188.980	1.1485	5.9313	-2.9225u
B 249.678	11.9922	10.4665	8.8016
Ba 389.178	0.6879	-1.4238u	-0.0125u
Be 313.042	0.0293	0.0391	0.0407
Ca 370.602	-6.021u	-3.498u	-4.425u
Cd 226.502	0.2559	0.0725	0.2035
Co 228.615	-0.0575u	-0.3576u	-0.0441u
Cr 267.716	0.4978	0.4017	0.2823
Cu 324.754	1.0334	1.5843	0.6019
Fe 271.441	17.4509	14.6442	10.6587
K 766.491	6.4407	7.5000	8.0251
Mg 279.078	6.0100	5.4397	8.6523
Mn 257.610	0.4147	0.5222	0.5570
Mo 202.032	0.0146	-0.0625u	0.2701
Na 330.237	-146.742u	-34.4249u	40.6163
Ni 231.604	1.2694	0.1827	0.5517
Pb 220.353	3.8323	1.6175	-0.1016u
Sb 206.834	1.3222	0.4894	3.6578
Se 196.026	0.8590	-2.4313u	13.9553
Sn 189.925	1.4025	4.6192	-0.5814u
Sr 216.596	0.4904	0.7659	0.1014
Ti 334.941	0.3762	0.4121	0.3692
Tl 190.794	-2.3393u	1.3596	-2.8453u
V 292.401	0.5992	0.0201	0.7370
Zn 206.200	1.5885	2.0490	-0.1337u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0480	ppb	0.3839	800.3	-30.5367	0.04797
Al 308.215	18.3962	ppb	0.8615	4.7	564.524	18.39616
As 188.980	1.3857	ppb	4.4317	319.8	-5.1534	1.38575
B 249.678	10.4201	ppb	1.5958	15.3	212.159	10.42009
Ba 389.178	-0.2495	ppb	1.0756	431.2	-43.1555	-0.24946
Be 313.042	0.0364	ppb	0.0062	17.0	-246.832	0.03638
Ca 370.602	-4.648	ppb	1.276	27.4	10.19	-4.64817
Cd 226.502	0.1773	ppb	0.0945	53.3	38.1036	0.17727
Co 228.615	-0.1531	ppb	0.1772	115.8	-1.2223	-0.15309

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	0.3939	ppb	0.1080	27.4	51.8518	0.39392
Cu 324.754	1.0732	ppb	0.4924	45.9	264.675	1.07322
Fe 271.441	14.2513	ppb	3.4131	23.9	37.5683	14.25128
K 766.491	7.3219	ppb	0.8071	11.0	522.957	7.32193
Mg 279.078	6.7007	ppb	1.7140	25.6	41.1703	6.70065
Mn 257.610	0.4980	ppb	0.0742	14.9	180.894	0.49796
Mo 202.032	0.0740	ppb	0.1741	235.1	10.2234	0.07404
Na 330.237	-46.8503	ppb	94.2953	201.3	27.3348	-46.85035
Ni 231.604	0.6679	ppb	0.5526	82.7	-3.9700	0.66791
Pb 220.353	1.7827	ppb	1.9721	110.6	15.5060	1.78274
Sb 206.834	1.8231	ppb	1.6425	90.1	-2.4908	1.82314
Se 196.026	4.1277	ppb	8.6685	210.0	6.2585	4.12768
Sn 189.925	1.8134	ppb	2.6245	144.7	-3.9741	1.81341
Sr 216.596	0.4526	ppb	0.3338	73.8	10.7140	0.45257
Ti 334.941	0.3858	ppb	0.0230	6.0	117.200	0.38582
Tl 190.794	-1.2750	ppb	2.2956	180.0	-9.4145	-1.27501
V 292.401	0.4521	ppb	0.3804	84.1	-7.9816	0.45209
Zn 206.200	1.1679	ppb	1.1506	98.5	1.7482	1.16793

680-107114-a-20-a (Samp) **11/15/2014, 2:07:20 AM** **Rack 3, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5371u	0.2958u	-0.1520u
Al 308.215	360943	361331	360926
As 188.980	50.9342	48.9319	44.3008
B 249.678	20.1366u	19.3459u	18.5108u
Ba 389.178	520.620	520.772	522.350
Be 313.042	8.3869	8.3979	8.3760
Ca 370.602	3537	3537	3557
Cd 226.502	1.6611	2.2283	2.2694
Co 228.615	75.3522	76.0783	76.6687
Cr 267.716	576.169	576.333	577.107
Cu 324.754	186.948	185.213	185.317
Fe 271.441	361949	362108	363116
K 766.491	8797.35	8787.85	8772.04
Mg 279.078	10871.0	10894.6	10920.6
Mn 257.610	2121.92	2124.51	2128.54
Mo 202.032	8.1871	6.5800	7.4779
Na 330.237	-144.716u	-366.322u	144.867u
Ni 231.604	101.436	99.7247	99.4881
Pb 220.353	225.677	227.477	227.481
Sb 206.834	-0.5346	0.2145	-9.0595
Se 196.026	3.5014	-1.9311	-2.7063
Sn 189.925	27.6994	31.0985	30.2221
Sr 216.596	30.1617	30.9771	30.4680
Ti 334.941	5566.53	5555.88	5560.49
Tl 190.794	12.2287u	8.1206u	11.4981u
V 292.401	974.983	975.735	977.511
Zn 206.200	346.730	346.923	347.015

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1311	ppb	0.4168	318.0	-90.7395
Al 308.215	361066	ppb	228.824	0.1	2377356

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	48.0556	ppb	3.4024	7.1	23.5847
B 249.678	19.3311	ppb	0.8130	4.2	-460.854
Ba 389.178	521.247	ppb	0.9580	0.2	11713.4
Be 313.042	8.3869	ppb	0.0109	0.1	15575.9
Ca 370.602	3544	ppb	11.12	0.3	8378
Cd 226.502	2.0530	ppb	0.3400	16.6	1848.13
Co 228.615	76.0331	ppb	0.6594	0.9	1064.24
Cr 267.716	576.536	ppb	0.5010	0.1	31480.0
Cu 324.754	185.826	ppb	0.9730	0.5	12846.1
Fe 271.441	362391	ppb	633.019	0.2	582093
K 766.491	8785.75	ppb	12.7854	0.1	353400
Mg 279.078	10895.4	ppb	24.8307	0.2	29428.9
Mn 257.610	2124.99	ppb	3.3376	0.2	445922
Mo 202.032	7.4150	ppb	0.8054	10.9	41.7305
Na 330.237	-122.057	ppb	256.347	210.0	-60.8646
Ni 231.604	100.216	ppb	1.0628	1.1	344.263
Pb 220.353	226.879	ppb	1.0405	0.5	401.851
Sb 206.834	-3.1265	ppb	5.1517	164.8	4.2715
Se 196.026	-0.3787	ppb	3.3825	893.3	7.9117
Sn 189.925	29.6734	ppb	1.7647	5.9	17.1896
Sr 216.596	30.5356	ppb	0.4119	1.3	893.203
Ti 334.941	5560.97	ppb	5.3402	0.1	1619705
Tl 190.794	10.6158	ppb	2.1916	20.6	-48.3261
V 292.401	976.076	ppb	1.2981	0.1	24825.4
Zn 206.200	346.889	ppb	0.1450	0.0	394.268

680-107114-c-21-a (Samp) **11/15/2014, 2:11:37 AM** **Rack 3, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7707u	-1.2503u	-0.9353u
Al 308.215	97734.4	97781.9	97730.7
As 188.980	15.8291	14.3444	17.4988
B 249.678	7.0502	7.1813	7.3037
Ba 389.178	562.665	561.499	562.482
Be 313.042	25.2686	25.3675	25.3745
Ca 370.602	5857	5847	5848
Cd 226.502	0.2162	0.3602	0.1907
Co 228.615	26.0350	26.7315	26.2955
Cr 267.716	161.227	161.900	161.293
Cu 324.754	43.5029	44.3798	43.1181
Fe 271.441	47293.0	47368.7	47345.4
K 766.491	2957.84	2962.54	2963.01
Mg 279.078	5197.16	5201.63	5195.11
Mn 257.610	1340.20	1341.39	1340.61
Mo 202.032	1.9182	0.8742	1.0487
Na 330.237	367.242	486.862	203.840u
Ni 231.604	25.9678	26.8766	26.4793
Pb 220.353	58.5860	62.8435	59.9303
Sb 206.834	0.9861	0.7698	4.2522
Se 196.026	-0.4457	-3.9894u	-5.8721u
Sn 189.925	7.1999	8.7412	6.8534
Sr 216.596	83.0688	84.0654	84.6048
Ti 334.941	1844.22	1847.34	1846.31

Label	Replicates Concentration		
Tl 190.794	-0.4379u	2.5576u	1.9918u
V 292.401	184.797	185.510	184.695
Zn 206.200	117.912	123.715	120.830

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9854	ppb	0.2437	24.7	-116.574
Al 308.215	97749.0	ppb	28.5597	0.0	643913
As 188.980	15.8908	ppb	1.5781	9.9	4.2067
B 249.678	7.1784	ppb	0.1268	1.8	52.6253
Ba 389.178	562.215	ppb	0.6271	0.1	12362.3
Be 313.042	25.3369	ppb	0.0592	0.2	47477.0
Ca 370.602	5851	ppb	5.259	0.1	16038
Cd 226.502	0.2557	ppb	0.0914	35.7	264.534
Co 228.615	26.3540	ppb	0.3519	1.3	361.724
Cr 267.716	161.473	ppb	0.3708	0.2	8817.98
Cu 324.754	43.6669	ppb	0.6466	1.5	3151.37
Fe 271.441	47335.7	ppb	38.7267	0.1	76048.7
K 766.491	2961.13	ppb	2.8592	0.1	119261
Mg 279.078	5197.97	ppb	3.3308	0.1	14073.3
Mn 257.610	1340.73	ppb	0.6051	0.0	280843
Mo 202.032	1.2804	ppb	0.5592	43.7	15.9450
Na 330.237	352.648	ppb	142.074	40.3	32.3168
Ni 231.604	26.4412	ppb	0.4556	1.7	82.0977
Pb 220.353	60.4533	ppb	2.1764	3.6	112.857
Sb 206.834	2.0027	ppb	1.9511	97.4	0.6339
Se 196.026	-3.4357	ppb	2.7553	80.2	3.5728
Sn 189.925	7.5982	ppb	1.0050	13.2	0.4204
Sr 216.596	83.9130	ppb	0.7792	0.9	1140.91
Ti 334.941	1845.96	ppb	1.5880	0.1	537655
Tl 190.794	1.3705	ppb	1.5915	116.1	-12.6726
V 292.401	185.001	ppb	0.4436	0.2	4700.25
Zn 206.200	120.819	ppb	2.9015	2.4	140.670

680-107114-a-22-a (Samp) **11/15/2014, 2:15:54 AM** **Rack 3, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8541u	0.2848u	-1.1519u
Al 308.215	183192	183331	182901
As 188.980	31.9478	28.4386	14.9983
B 249.678	8.0666u	9.1211u	9.1448u
Ba 389.178	230.166	230.143	229.187
Be 313.042	3.6000	3.5925	3.5818
Ca 370.602	1166	1156	1153
Cd 226.502	-2.1289	-1.9083	-1.9258
Co 228.615	25.6573	25.4163	25.6842
Cr 267.716	209.834	209.324	209.463
Cu 324.754	97.8094	98.1390	98.1962
Fe 271.441	188750	188662	188036
K 766.491	3974.79	3981.74	3972.52
Mg 279.078	4297.85	4310.90	4297.16
Mn 257.610	729.736	730.863	730.090
Mo 202.032	2.9761	2.5781	2.4351
Na 330.237	-52.1840u	353.008u	-53.8397u

Label	Replicates Concentration		
Ni 231.604	36.9061	35.8221	34.5743
Pb 220.353	102.981	103.028	100.207
Sb 206.834	-1.6060	-5.2296u	-0.3844
Se 196.026	4.0742	0.8500	9.5240
Sn 189.925	11.6600	8.6541	14.3487
Sr 216.596	9.7707	10.0283	9.9421
Ti 334.941	2433.20	2432.33	2421.62
Tl 190.794	8.7119u	2.5272u	8.7045u
V 292.401	597.422	596.412	593.939
Zn 206.200	156.892	149.606	153.937

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5737	ppb	0.7582	132.2	-105.759
Al 308.215	183141	ppb	219.054	0.1	1206083
As 188.980	25.1282	ppb	8.9466	35.6	9.4402
B 249.678	8.7775	ppb	0.6158	7.0	-240.338
Ba 389.178	229.832	ppb	0.5584	0.2	5164.62
Be 313.042	3.5915	ppb	0.0092	0.3	6501.43
Ca 370.602	1158	ppb	6.567	0.6	2333
Cd 226.502	-1.9876	ppb	0.1226	6.2	839.588
Co 228.615	25.5859	ppb	0.1475	0.6	375.761
Cr 267.716	209.540	ppb	0.2640	0.1	11486.5
Cu 324.754	98.0482	ppb	0.2088	0.2	6866.70
Fe 271.441	188483	ppb	389.515	0.2	302757
K 766.491	3976.35	ppb	4.8027	0.1	160071
Mg 279.078	4301.97	ppb	7.7414	0.2	11620.7
Mn 257.610	730.230	ppb	0.5762	0.1	153474
Mo 202.032	2.6631	ppb	0.2804	10.5	18.2726
Na 330.237	82.3281	ppb	234.417	284.7	-10.6002
Ni 231.604	35.7675	ppb	1.1669	3.3	124.141
Pb 220.353	102.072	ppb	1.6152	1.6	189.127
Sb 206.834	-2.4067	ppb	2.5199	104.7	-2.3820
Se 196.026	4.8161	ppb	4.3843	91.0	8.3992
Sn 189.925	11.5543	ppb	2.8488	24.7	3.4254
Sr 216.596	9.9137	ppb	0.1311	1.3	391.177
Ti 334.941	2429.05	ppb	6.4511	0.3	707499
Tl 190.794	6.6479	ppb	3.5686	53.7	-27.9026
V 292.401	595.924	ppb	1.7916	0.3	15160.3
Zn 206.200	153.478	ppb	3.6646	2.4	173.674

680-107114-c-23-a (Samp) **11/15/2014, 2:20:12 AM** **Rack 3, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9490u	-0.9010u	-0.5789u
Al 308.215	92362.6	91908.2	92720.4
As 188.980	6.0329	7.7756	15.8936
B 249.678	5.7757	6.1793	5.5018
Ba 389.178	523.097	518.848	523.641
Be 313.042	42.5046	42.3090	42.6853
Ca 370.602	6180	6161	6209
Cd 226.502	1.2548	1.2779	1.4001
Co 228.615	9.1222	9.6599	9.0819
Cr 267.716	414.576	412.309	416.722

Label	Replicates Concentration		
Cu 324.754	34.5789	34.7255	35.2272
Fe 271.441	17705.5	17609.2	17773.6
K 766.491	4504.84	4503.16	4531.03
Mg 279.078	7156.84	7109.72	7175.27
Mn 257.610	291.618	289.940	292.609
Mo 202.032	0.7535	-0.0201u	1.4033
Na 330.237	901.204	803.392	846.575
Ni 231.604	38.0530	38.9798	38.4690
Pb 220.353	52.3700	55.0733	56.4957
Sb 206.834	0.8787	-1.6779	-2.5419
Se 196.026	11.1311	2.6351	2.4350
Sn 189.925	7.1802	11.4154	6.8015
Sr 216.596	82.3608	80.7096	83.2725
Ti 334.941	1523.39	1516.03	1529.82
Tl 190.794	-0.6921u	2.7925	-2.3863u
V 292.401	38.4008	37.6917	38.2214
Zn 206.200	107.665	106.759	110.266

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8096	ppb	0.2013	24.9	-103.113
Al 308.215	92330.4	ppb	407.072	0.4	608222
As 188.980	9.9007	ppb	5.2627	53.2	0.4071
B 249.678	5.8189	ppb	0.3408	5.9	97.1422
Ba 389.178	521.862	ppb	2.6246	0.5	11457.0
Be 313.042	42.4996	ppb	0.1882	0.4	79830.0
Ca 370.602	6184	ppb	24.19	0.4	17058
Cd 226.502	1.3109	ppb	0.0781	6.0	170.812
Co 228.615	9.2880	ppb	0.3227	3.5	148.277
Cr 267.716	414.536	ppb	2.2069	0.5	22520.8
Cu 324.754	34.8439	ppb	0.3400	1.0	2546.99
Fe 271.441	17696.1	ppb	82.5782	0.5	28440.0
K 766.491	4513.01	ppb	15.6293	0.3	181643
Mg 279.078	7147.28	ppb	33.8068	0.5	19390.3
Mn 257.610	291.389	ppb	1.3492	0.5	61163.0
Mo 202.032	0.7123	ppb	0.7126	100.0	13.6504
Na 330.237	850.390	ppb	49.0173	5.8	60.7976
Ni 231.604	38.5006	ppb	0.4642	1.2	117.912
Pb 220.353	54.6464	ppb	2.0957	3.8	101.554
Sb 206.834	-1.1137	ppb	1.7787	159.7	-1.0023
Se 196.026	5.4004	ppb	4.9639	91.9	7.0534
Sn 189.925	8.4657	ppb	2.5615	30.3	1.0797
Sr 216.596	82.1143	ppb	1.2991	1.6	1076.89
Ti 334.941	1523.08	ppb	6.9005	0.5	443618
Tl 190.794	-0.0953	ppb	2.6405	2770.1	-10.5813
V 292.401	38.1046	ppb	0.3687	1.0	941.335
Zn 206.200	108.230	ppb	1.8203	1.7	126.397

680-107114-a-24-a (Samp) **11/15/2014, 2:24:29 AM** **Rack 3, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.0860u	-1.1692u	-1.3134u
Al 308.215	290948	290901	291684
As 188.980	29.2782	29.3471	27.5431

Label	Replicates Concentration		
B 249.678	10.2376u	10.9354u	12.6380u
Ba 389.178	320.104	319.313	320.659
Be 313.042	12.0694	12.0771	12.0821
Ca 370.602	4941	4969	4963
Cd 226.502	-4.3504	-3.9537	-3.7792
Co 228.615	97.2514	96.7065	97.8972
Cr 267.716	795.038	795.588	795.930
Cu 324.754	297.285	303.621	303.884
Fe 271.441	462696	463798	463682
K 766.491	9505.18	9494.75	9494.26
Mg 279.078	11031.0	11044.9	11066.5
Mn 257.610	3479.42	3502.13	3507.99
Mo 202.032	4.9009	4.1335	4.2611
Na 330.237	-212.692u	174.383u	-144.487u
Ni 231.604	114.294	114.893	115.863
Pb 220.353	160.070	162.337	164.720
Sb 206.834	-4.7624	-5.2420	2.6476
Se 196.026	-1.8582	22.7074	11.4287
Sn 189.925	21.4890	25.7821	23.9564
Sr 216.596	16.1936	17.0531	16.0395
Ti 334.941	11917.5	11924.0	11914.6
Tl 190.794	20.3696u	16.4509u	13.8031u
V 292.401	1361.41	1359.23	1361.34
Zn 206.200	465.928	469.109	468.849

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1895	ppb	0.1151	9.7	-184.625
Al 308.215	291178	ppb	439.454	0.2	1917366
As 188.980	28.7228	ppb	1.0222	3.6	10.0384
B 249.678	11.2703	ppb	1.2348	11.0	-820.135
Ba 389.178	320.025	ppb	0.6766	0.2	7369.24
Be 313.042	12.0762	ppb	0.0064	0.1	22544.7
Ca 370.602	4958	ppb	14.85	0.3	13873
Cd 226.502	-4.0278	ppb	0.2927	7.3	2047.54
Co 228.615	97.2850	ppb	0.5961	0.6	1468.82
Cr 267.716	795.519	ppb	0.4502	0.1	43417.3
Cu 324.754	301.597	ppb	3.7365	1.2	20682.6
Fe 271.441	463392	ppb	605.414	0.1	744324
K 766.491	9498.06	ppb	6.1681	0.1	382033
Mg 279.078	11047.5	ppb	17.9037	0.2	29839.9
Mn 257.610	3496.52	ppb	15.0884	0.4	733249
Mo 202.032	4.4318	ppb	0.4112	9.3	16.6567
Na 330.237	-60.9318	ppb	206.622	339.1	-82.4653
Ni 231.604	115.017	ppb	0.7915	0.7	400.036
Pb 220.353	162.376	ppb	2.3254	1.4	301.292
Sb 206.834	-2.4523	ppb	4.4231	180.4	9.8128
Se 196.026	10.7593	ppb	12.2965	114.3	14.1277
Sn 189.925	23.7425	ppb	2.1545	9.1	12.6836
Sr 216.596	16.4287	ppb	0.5462	3.3	852.698
Ti 334.941	11918.7	ppb	4.8512	0.0	3471392
Tl 190.794	16.8745	ppb	3.3037	19.6	-55.4546
V 292.401	1360.66	ppb	1.2357	0.1	34661.5
Zn 206.200	467.962	ppb	1.7662	0.4	532.688

680-107114-a-25-a (Samp) **11/15/2014, 2:28:46 AM** **Rack 3, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.3563u	-1.0837u	-1.3908u
Al 308.215	155463	155084	155820
As 188.980	10.3107	12.6146	7.8463
B 249.678	8.7311u	8.6268u	9.4887u
Ba 389.178	546.334	546.199	548.924
Be 313.042	4.4946	4.4932	4.5259
Ca 370.602	2475	2468	2499
Cd 226.502	-0.8892	-1.0494	-1.0503
Co 228.615	26.7677	26.1898	25.2148
Cr 267.716	71.6947	71.2268	71.2365
Cu 324.754	73.1388	74.0653	72.8338
Fe 271.441	109770	109726	110423
K 766.491	14403.9	14406.3	14481.2
Mg 279.078	11401.8	11385.0	11442.3
Mn 257.610	1112.39	1109.27	1116.41
Mo 202.032	0.4662u	1.5715	1.5413
Na 330.237	5.8348u	10.0115u	-289.879u
Ni 231.604	19.4378	20.7702	19.6906
Pb 220.353	125.572	123.664	121.160
Sb 206.834	-2.0226	0.1599	-4.8124u
Se 196.026	3.0626	6.6121	12.4833
Sn 189.925	10.9189	7.4171	14.4151
Sr 216.596	19.4406	18.9340	20.5493
Ti 334.941	5005.46	4997.76	5022.31
Tl 190.794	10.0140u	11.2060u	3.6719u
V 292.401	195.938	194.988	197.211
Zn 206.200	264.361	255.388	257.767

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2769	ppb	0.1682	13.2	-149.063
Al 308.215	155456	ppb	368.226	0.2	1023781
As 188.980	10.2572	ppb	2.3846	23.2	0.0415
B 249.678	8.9488	ppb	0.4704	5.3	-59.9843
Ba 389.178	547.152	ppb	1.5355	0.3	12091.4
Be 313.042	4.5046	ppb	0.0185	0.4	8200.04
Ca 370.602	2481	ppb	16.04	0.6	7715
Cd 226.502	-0.9963	ppb	0.0928	9.3	502.958
Co 228.615	26.0574	ppb	0.7848	3.0	432.861
Cr 267.716	71.3860	ppb	0.2674	0.4	3969.52
Cu 324.754	73.3460	ppb	0.6414	0.9	5176.10
Fe 271.441	109973	ppb	390.551	0.4	176655
K 766.491	14430.5	ppb	43.9754	0.3	580307
Mg 279.078	11409.7	ppb	29.4616	0.3	30924.0
Mn 257.610	1112.69	ppb	3.5784	0.3	233343
Mo 202.032	1.1930	ppb	0.6296	52.8	12.4559
Na 330.237	-91.3443	ppb	171.949	188.2	-3.4218
Ni 231.604	19.9662	ppb	0.7077	3.5	66.9901
Pb 220.353	123.465	ppb	2.2129	1.8	217.712
Sb 206.834	-2.2250	ppb	2.4923	112.0	-5.2495
Se 196.026	7.3860	ppb	4.7578	64.4	8.9480
Sn 189.925	10.9170	ppb	3.4990	32.1	2.9414
Sr 216.596	19.6413	ppb	0.8262	4.2	407.499

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	5008.51	ppb	12.5570	0.3	1458764
Tl 190.794	8.2973	ppb	4.0498	48.8	-14.8351
V 292.401	196.046	ppb	1.1156	0.6	4986.53
Zn 206.200	259.172	ppb	4.6486	1.8	301.606

680-107114-a-26-a (Samp) **11/15/2014, 2:33:03 AM** **Rack 3, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.5809u	-1.5960u	-0.9672u
Al 308.215	194391	194197	194200
As 188.980	16.1124	13.5347	14.0440
B 249.678	9.6024u	9.4391u	9.1620u
Ba 389.178	639.188	638.144	637.731
Be 313.042	6.3493	6.3545	6.3462
Ca 370.602	3175	3180	3174
Cd 226.502	-1.4048	-1.3623	-1.4184
Co 228.615	35.5529	36.7441	36.6779
Cr 267.716	121.229	120.752	121.046
Cu 324.754	89.7797	90.8625	91.8699
Fe 271.441	138009	137883	137588
K 766.491	16416.6	16403.4	16419.0
Mg 279.078	13290.8	13275.2	13264.5
Mn 257.610	1198.53	1196.28	1200.80
Mo 202.032	2.9148	1.4639	1.7561
Na 330.237	-65.1750u	-235.141u	-101.840u
Ni 231.604	30.0650	30.0996	30.2123
Pb 220.353	154.464	147.862	159.971
Sb 206.834	6.0448	1.4001	0.4953
Se 196.026	0.6315	-1.6250	6.0950
Sn 189.925	13.3254	7.5703	7.7766
Sr 216.596	25.3372	24.8654	24.6552
Ti 334.941	6006.52	6004.94	6013.08
Tl 190.794	1.9570u	6.6464u	6.0705u
V 292.401	304.794	305.830	304.326
Zn 206.200	304.235	303.420	296.788

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3814	ppb	0.3588	26.0	-161.320
Al 308.215	194263	ppb	110.998	0.1	1279247
As 188.980	14.5637	ppb	1.3652	9.4	2.7302
B 249.678	9.4012	ppb	0.2227	2.4	-115.344
Ba 389.178	638.354	ppb	0.7507	0.1	14120.4
Be 313.042	6.3500	ppb	0.0042	0.1	11688.5
Ca 370.602	3176	ppb	2.859	0.1	9731
Cd 226.502	-1.3952	ppb	0.0293	2.1	616.487
Co 228.615	36.3250	ppb	0.6694	1.8	580.561
Cr 267.716	121.009	ppb	0.2404	0.2	6675.28
Cu 324.754	90.8374	ppb	1.0453	1.2	6364.46
Fe 271.441	137827	ppb	216.202	0.2	221395
K 766.491	16413.0	ppb	8.3984	0.1	660001
Mg 279.078	13276.8	ppb	13.1837	0.1	35977.7
Mn 257.610	1198.54	ppb	2.2618	0.2	251403
Mo 202.032	2.0449	ppb	0.7674	37.5	16.7746

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-134.052	ppb	89.4444	66.7	-12.1573
Ni 231.604	30.1256	ppb	0.0770	0.3	101.719
Pb 220.353	154.099	ppb	6.0629	3.9	268.750
Sb 206.834	2.6467	ppb	2.9774	112.5	2.6067
Se 196.026	1.7005	ppb	3.9695	233.4	6.6527
Sn 189.925	9.5574	ppb	3.2648	34.2	1.9084
Sr 216.596	24.9526	ppb	0.3493	1.4	513.549
Ti 334.941	6008.18	ppb	4.3160	0.1	1749923
Tl 190.794	4.8913	ppb	2.5574	52.3	-22.3293
V 292.401	304.983	ppb	0.7698	0.3	7767.20
Zn 206.200	301.481	ppb	4.0844	1.4	350.321

680-107114-c-27-a (Samp) **11/15/2014, 2:37:20 AM** **Rack 3, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.1106u	-0.8872u	-1.0453u
Al 308.215	178899	178854	178795
As 188.980	17.2065	10.2151	17.5502
B 249.678	11.7010u	11.3860u	11.6142u
Ba 389.178	802.520	800.036	801.456
Be 313.042	16.2886	16.3019	16.2863
Ca 370.602	48831	48896	48864
Cd 226.502	-2.2997	-2.1665	-2.5667
Co 228.615	172.950	172.231	173.258
Cr 267.716	330.175	329.173	329.534
Cu 324.754	231.386	231.246	231.879
Fe 271.441	236307	236311	236556
K 766.491	32591.8	32601.4	32543.7
Mg 279.078	38345.7	38410.4	38382.6
Mn 257.610	5107.50	5086.97	5085.01
Mo 202.032	2.3848	3.2162	2.8756
Na 330.237	183.471u	278.726u	283.913u
Ni 231.604	126.571	129.143	128.891
Pb 220.353	188.728	189.447	188.727
Sb 206.834	0.6528	-1.1410	-0.7397
Se 196.026	3.4842	4.4867	-8.9686u
Sn 189.925	19.5914	28.3149	17.4084
Sr 216.596	98.2901	97.9417	97.4739
Ti 334.941	9369.82	9344.35	9343.70
Tl 190.794	4.0445u	13.2040u	12.7948u
V 292.401	659.173	658.653	659.532
Zn 206.200	524.838	530.778	531.731

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0144	ppb	0.1149	11.3	-130.999
Al 308.215	178849	ppb	51.9306	0.0	1177843
As 188.980	14.9906	ppb	4.1393	27.6	2.3706
B 249.678	11.5670	ppb	0.1627	1.4	-302.341
Ba 389.178	801.337	ppb	1.2461	0.2	17828.0
Be 313.042	16.2923	ppb	0.0084	0.1	30464.9
Ca 370.602	48864	ppb	32.40	0.1	132651
Cd 226.502	-2.3443	ppb	0.2038	8.7	1039.97
Co 228.615	172.813	ppb	0.5274	0.3	2300.90

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	329.627	ppb	0.5073	0.2	18056.2
Cu 324.754	231.503	ppb	0.3323	0.1	15878.3
Fe 271.441	236391	ppb	142.743	0.1	379726
K 766.491	32579.0	ppb	30.9268	0.1	1309844
Mg 279.078	38379.6	ppb	32.4510	0.1	104068
Mn 257.610	5093.16	ppb	12.4569	0.2	1066948
Mo 202.032	2.8255	ppb	0.4179	14.8	17.0953
Na 330.237	248.703	ppb	56.5527	22.7	-21.0664
Ni 231.604	128.202	ppb	1.4182	1.1	421.893
Pb 220.353	188.967	ppb	0.4155	0.2	332.046
Sb 206.834	-0.4093	ppb	0.9414	230.0	2.7601
Se 196.026	-0.3325	ppb	7.4958	2254.1	7.4850
Sn 189.925	21.7716	ppb	5.7709	26.5	11.1871
Sr 216.596	97.9019	ppb	0.4096	0.4	1595.38
Ti 334.941	9352.63	ppb	14.8926	0.2	2724042
Tl 190.794	10.0144	ppb	5.1742	51.7	-28.8270
V 292.401	659.119	ppb	0.4420	0.1	16803.8
Zn 206.200	529.116	ppb	3.7352	0.7	614.503

X (Samp) **11/15/2014, 2:41:38 AM** **Rack 3, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.5443	10.9190	11.0915
Al 308.215	253.897	247.562	249.923
As 188.980	16.6964	23.8713	19.0152
B 249.678	126.439	124.390	127.367
Ba 389.178	8.4252	10.2111	8.9522
Be 313.042	5.1266	5.0276	5.0972
Ca 370.602	528.6	505.9	517.1
Cd 226.502	5.6586	5.5895	5.5507
Co 228.615	10.8010	10.3301	10.8638
Cr 267.716	11.2355	11.3372	11.2096
Cu 324.754	22.9077	21.7799	22.5960
Fe 271.441	84.6637	75.0565	83.8671
K 766.491	1141.19	1124.67	1138.42
Mg 279.078	617.632	604.511	615.430
Mn 257.610	11.9663	11.7571	11.8192
Mo 202.032	9.7576	10.2968	10.7551
Na 330.237	1345.34	1139.37	1249.51
Ni 231.604	45.6927	44.5027	43.8994
Pb 220.353	12.7107	13.0342	10.3063
Sb 206.834	19.7184	20.6763	20.4378
Se 196.026	23.2417	27.1856	25.5676
Sn 189.925	54.2409	50.7931	53.8285
Sr 216.596	10.5289	10.6287	11.4009
Ti 334.941	12.7377	12.3651	12.1963
Tl 190.794	24.6433	22.0644	30.5772
V 292.401	11.9065	11.2936	11.1153
Zn 206.200	27.2079	24.4193	26.2981

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.8516	ppb	0.2798	2.6	837.593
Al 308.215	250.460	ppb	3.2014	1.3	2093.71

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	19.8610	ppb	3.6614	18.4	7.1591
B 249.678	126.065	ppb	1.5231	1.2	2099.72
Ba 389.178	9.1962	ppb	0.9176	10.0	165.750
Be 313.042	5.0838	ppb	0.0509	1.0	9269.21
Ca 370.602	517.2	ppb	11.35	2.2	1413
Cd 226.502	5.5996	ppb	0.0547	1.0	281.160
Co 228.615	10.6649	ppb	0.2917	2.7	128.608
Cr 267.716	11.2608	ppb	0.0675	0.6	641.026
Cu 324.754	22.4278	ppb	0.5824	2.6	1704.01
Fe 271.441	81.1957	ppb	5.3317	6.6	146.448
K 766.491	1134.76	ppb	8.8515	0.8	45844.0
Mg 279.078	612.524	ppb	7.0266	1.1	1685.93
Mn 257.610	11.8475	ppb	0.1074	0.9	2560.84
Mo 202.032	10.2698	ppb	0.4993	4.9	78.6131
Na 330.237	1244.74	ppb	103.068	8.3	83.4967
Ni 231.604	44.6983	ppb	0.9125	2.0	136.049
Pb 220.353	12.0171	ppb	1.4903	12.4	32.2501
Sb 206.834	20.2775	ppb	0.4986	2.5	23.0510
Se 196.026	25.3316	ppb	1.9825	7.8	15.8097
Sn 189.925	52.9542	ppb	1.8829	3.6	34.8768
Sr 216.596	10.8528	ppb	0.4772	4.4	142.081
Ti 334.941	12.4330	ppb	0.2770	2.2	3626.92
Tl 190.794	25.7616	ppb	4.3652	16.9	18.9991
V 292.401	11.4384	ppb	0.4150	3.6	270.655
Zn 206.200	25.9751	ppb	1.4221	5.5	30.9720

CRI (Samp) **11/15/2014, 2:45:55 AM** **Rack 3, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.7049	10.6312	10.9720
Al 308.215	237.958	235.243	240.818
As 188.980	19.6982	18.7440	24.5728
B 249.678	128.646	126.702	129.321
Ba 389.178	8.0957	9.9631	8.0179
Be 313.042	5.0870	5.0419	5.1050
Ca 370.602	515.4	509.7	519.6
Cd 226.502	5.7515	5.7607	5.6523
Co 228.615	10.8208	10.3379	10.0917
Cr 267.716	10.8258	11.4837	11.4913
Cu 324.754	22.8572	22.9284	22.6710
Fe 271.441	67.4553	59.9834	64.3269
K 766.491	1128.91	1118.56	1133.00
Mg 279.078	611.451	605.300	609.814
Mn 257.610	11.5291	11.3659	11.5566
Mo 202.032	9.7392	10.1028	10.2252
Na 330.237	1306.72	1360.61	1059.14
Ni 231.604	43.1135	46.5193	46.8394
Pb 220.353	13.1506	12.0238	11.2419
Sb 206.834	16.9799	20.0706	21.2953
Se 196.026	25.3435	27.4787	19.9392
Sn 189.925	54.4961	53.9352	55.0427
Sr 216.596	10.8760	10.9136	10.4416
Ti 334.941	10.9482	10.8851	10.9627

Label	Replicates Concentration		
Tl 190.794	22.3632	23.5000	25.7509
V 292.401	11.2483	11.2907	11.2998
Zn 206.200	26.2167	25.0366	25.9056

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.7694	ppb	0.1793	1.7	830.995
Al 308.215	238.006	ppb	2.7879	1.2	2011.69
As 188.980	21.0050	ppb	3.1264	14.9	7.9218
B 249.678	128.223	ppb	1.3599	1.1	2134.95
Ba 389.178	8.6922	ppb	1.1013	12.7	154.665
Be 313.042	5.0780	ppb	0.0325	0.6	9258.15
Ca 370.602	514.9	ppb	4.989	1.0	1406
Cd 226.502	5.7215	ppb	0.0601	1.1	286.549
Co 228.615	10.4168	ppb	0.3709	3.6	125.594
Cr 267.716	11.2669	ppb	0.3820	3.4	641.351
Cu 324.754	22.8189	ppb	0.1330	0.6	1730.36
Fe 271.441	63.9219	ppb	3.7524	5.9	118.672
K 766.491	1126.82	ppb	7.4426	0.7	45524.8
Mg 279.078	608.855	ppb	3.1856	0.5	1675.98
Mn 257.610	11.4839	ppb	0.1031	0.9	2484.69
Mo 202.032	10.0224	ppb	0.2527	2.5	76.9541
Na 330.237	1242.16	ppb	160.769	12.9	83.4201
Ni 231.604	45.4907	ppb	2.0650	4.5	138.569
Pb 220.353	12.1388	ppb	0.9595	7.9	32.4493
Sb 206.834	19.4486	ppb	2.2239	11.4	21.9042
Se 196.026	24.2538	ppb	3.8861	16.0	15.3241
Sn 189.925	54.4913	ppb	0.5538	1.0	36.0446
Sr 216.596	10.7437	ppb	0.2624	2.4	140.659
Ti 334.941	10.9320	ppb	0.0412	0.4	3189.75
Tl 190.794	23.8714	ppb	1.7241	7.2	17.0141
V 292.401	11.2796	ppb	0.0274	0.2	266.587
Zn 206.200	25.7197	ppb	0.6116	2.4	30.6712

Cont Calib Verif (CCV) **11/15/2014, 2:50:13 AM** **Rack 3, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	521.264	524.227	522.035
Al 308.215	5452.36	5444.05	5462.35
As 188.980	533.017	546.851	557.320
B 249.678	615.965	618.389	621.204
Ba 389.178	4584.64	4565.97	4581.39
Be 313.042	612.019	610.347	615.896
Ca 370.602	4986	4961	4976
Cd 226.502	545.547	543.995	544.878
Co 228.615	550.872	549.045	550.698
Cr 267.716	5482.32	5474.29	5494.10
Cu 324.754	5358.71	5360.80	5313.10
Fe 271.441	5435.82	5446.08	5470.78
K 766.491	11298.8	11282.9	11291.5
Mg 279.078	5855.15	5867.72	5865.44
Mn 257.610	5424.89	5395.64	5422.12
Mo 202.032	497.001	500.634	498.323
Na 330.237	9046.69	8717.35	8953.64

Label	Replicates Concentration		
Ni 231.604	2750.72	2733.42	2738.17
Pb 220.353	516.073	513.041	506.868
Sb 206.834	963.944	962.176	971.083
Se 196.026	5970.34	5959.46	5938.48
Sn 189.925	5217.60	5226.25	5233.62
Sr 216.596	2582.30	2578.51	2585.95
Ti 334.941	500.015	499.973	501.287
Tl 190.794	5052.98	5038.87	5041.58
V 292.401	5152.73	5143.91	5158.37
Zn 206.200	3090.46	3087.41	3084.26

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	522.509	ppb	1.5371	0.3	41919.3	104.50173
Al 308.215	5452.92	ppb	9.1607	0.2	37004.9	109.05837
As 188.980	545.729	ppb	12.1901	2.2	357.534	109.14587
B 249.678	618.519	ppb	2.6220	0.4	10138.9	123.70388Q
Ba 389.178	4577.33	ppb	9.9744	0.2	100567	91.54661
Be 313.042	612.754	ppb	2.8465	0.5	1155245	122.55080Q
Ca 370.602	4974	ppb	12.59	0.3	13673	99.48699
Cd 226.502	544.806	ppb	0.7785	0.1	24447.0	108.96129
Co 228.615	550.205	ppb	1.0084	0.2	6611.79	110.04102Q
Cr 267.716	5483.57	ppb	9.9678	0.2	297325	109.67139
Cu 324.754	5344.20	ppb	26.9549	0.5	360290	106.88401
Fe 271.441	5450.89	ppb	17.9695	0.3	8878.31	109.01786
K 766.491	11291.1	ppb	7.9564	0.1	454109	112.91074Q
Mg 279.078	5862.77	ppb	6.6977	0.1	15829.3	117.25536Q
Mn 257.610	5414.22	ppb	16.1474	0.3	1133235	108.28433
Mo 202.032	498.652	ppb	1.8389	0.4	3349.55	99.73048
Na 330.237	8905.90	ppb	169.783	1.9	359.369	118.74527Q
Ni 231.604	2740.77	ppb	8.9402	0.3	8710.15	109.63068
Pb 220.353	511.994	ppb	4.6907	0.9	855.811	102.39880
Sb 206.834	965.734	ppb	4.7158	0.5	1394.99	96.57344
Se 196.026	5956.09	ppb	16.1917	0.3	2687.67	119.12183Q
Sn 189.925	5225.82	ppb	8.0202	0.2	3964.60	104.51647
Sr 216.596	2582.25	ppb	3.7197	0.1	32820.7	103.29012
Ti 334.941	500.425	ppb	0.7470	0.1	145763	100.08501
Tl 190.794	5044.47	ppb	7.4872	0.1	5301.33	100.88948
V 292.401	5151.67	ppb	7.2889	0.1	131396	103.03335
Zn 206.200	3087.38	ppb	3.1045	0.1	3628.39	123.49508Q

Cont Calib Blank (CCB) **11/15/2014, 2:54:31 AM** **Rack 3, Tube 38**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1232	-0.3381u	-0.1225u
Al 308.215	17.8850	18.5981	16.0746
As 188.980	1.0791	-3.7106u	-0.5588u
B 249.678	12.7749	11.4202	11.0830
Ba 389.178	1.3368	-0.4642u	-0.6762u
Be 313.042	0.0336	0.0343	0.0636
Ca 370.602	-9.042u	0.0077	-5.139u
Cd 226.502	0.0550	0.1861	0.2934
Co 228.615	0.1855	0.0813	-1.2578u
Cr 267.716	0.4550	0.5161	0.6461

Label	Replicates Concentration		
Cu 324.754	0.7397	0.8428	1.0748
Fe 271.441	4.1787	3.2851	7.0880
K 766.491	6.7278	7.8302	7.1564
Mg 279.078	3.8944	8.1955	8.1646
Mn 257.610	0.4999	0.5681	0.6865
Mo 202.032	0.8896	0.2049	-0.3333u
Na 330.237	-171.736u	135.306	-112.640u
Ni 231.604	0.7554	0.2509	0.5974
Pb 220.353	3.4465	1.1956	3.2951
Sb 206.834	2.6750	3.5069	2.5405
Se 196.026	-3.9746u	-4.9277u	4.4286
Sn 189.925	-1.1068u	-4.0917u	3.4170
Sr 216.596	0.9032	0.6699	0.8279
Ti 334.941	0.3342	0.3641	0.2369
Tl 190.794	1.4358	-3.7934u	-0.6384u
V 292.401	0.9085	0.2944	0.6593
Zn 206.200	3.0953	2.9782	0.8198

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1125	ppb	0.2308	205.2	-43.4506	-0.11247
Al 308.215	17.5192	ppb	1.3009	7.4	558.813	17.51925
As 188.980	-1.0634	ppb	2.4344	228.9	-6.7860	-1.06342
B 249.678	11.7594	ppb	0.8955	7.6	234.035	11.75935
Ba 389.178	0.0655	ppb	1.1061	1689.8	-36.2403	0.06546
Be 313.042	0.0438	ppb	0.0171	39.1	-232.794	0.04383
Ca 370.602	-4.725	ppb	4.539	96.1	10.06	-4.72460
Cd 226.502	0.1782	ppb	0.1194	67.0	38.0914	0.17817
Co 228.615	-0.3303	ppb	0.8049	243.7	-3.3606	-0.33034
Cr 267.716	0.5391	ppb	0.0976	18.1	59.7124	0.53908
Cu 324.754	0.8858	ppb	0.1716	19.4	252.045	0.88576
Fe 271.441	4.8506	ppb	1.9885	41.0	22.4513	4.85058
K 766.491	7.2381	ppb	0.5557	7.7	519.589	7.23814
Mg 279.078	6.7515	ppb	2.4743	36.6	41.3057	6.75149
Mn 257.610	0.5848	ppb	0.0945	16.2	199.047	0.58482
Mo 202.032	0.2537	ppb	0.6129	241.6	11.4289	0.25372
Na 330.237	-49.6902	ppb	162.913	327.9	27.2105	-49.69017
Ni 231.604	0.5345	ppb	0.2580	48.3	-4.3947	0.53454
Pb 220.353	2.6457	ppb	1.2581	47.6	16.9179	2.64574
Sb 206.834	2.9075	ppb	0.5235	18.0	-0.9947	2.90745
Se 196.026	-1.4913	ppb	5.1488	345.3	3.7282	-1.49127
Sn 189.925	-0.5938	ppb	3.7806	636.6	-5.8029	-0.59383
Sr 216.596	0.8003	ppb	0.1190	14.9	15.1152	0.80033
Ti 334.941	0.3117	ppb	0.0665	21.3	95.6283	0.31174
Tl 190.794	-0.9987	ppb	2.6332	263.7	-9.1234	-0.99866
V 292.401	0.6207	ppb	0.3089	49.8	-3.7342	0.62074
Zn 206.200	2.2977	ppb	1.2813	55.8	3.0806	2.29775

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Batch Number: 358466 Batch Start Date: 11/13/14 09:36 Batch Analyst: West, Ryan

Batch Method: 3050B Batch End Date: 11/13/14 15:41

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00027	MS_LCS1_WK 00015	MS_LCS2_wk 00167
MB 680-358466/1		3050B, 6010C		CALC NOT SET TO RUN	1.07 g	100 mL			
LCS 680-358466/2		3050B, 6010C		CALC NOT SET TO RUN	1.13 g	100 mL	1 mL	1 mL	1 mL
680-107159-A-12	FM0281C-CS18"	3050B, 6010C	T	CALC NOT SET TO RUN	1.01 g	100 mL			
680-107159-A-12 MS	FM0281C-CS18"	3050B, 6010C	T	CALC NOT SET TO RUN	1.03 g	100 mL	1 mL	1 mL	1 mL
680-107159-A-12 MSD	FM0281C-CS18"	3050B, 6010C	T	CALC NOT SET TO RUN	1.02 g	100 mL	1 mL	1 mL	1 mL
680-107159-A-1	FM0281A-CS6"	3050B, 6010C	T	CALC NOT SET TO RUN	1.09 g	100 mL			
680-107159-A-2	FM0281A-CS12"	3050B, 6010C	T	CALC NOT SET TO RUN	1.08 g	100 mL			
680-107159-A-3	FM0281A-CS18"	3050B, 6010C	T	CALC NOT SET TO RUN	1.16 g	100 mL			
680-107159-A-4	FM0281A-CS24"	3050B, 6010C	T	CALC NOT SET TO RUN	1.03 g	100 mL			
680-107159-A-5	FM0281A-CSD6"	3050B, 6010C	T	CALC NOT SET TO RUN	1.09 g	100 mL			
680-107159-A-6	FM0281D-CS6"	3050B, 6010C	T	CALC NOT SET TO RUN	1.03 g	100 mL			
680-107159-A-7	FM0281D-CS12"	3050B, 6010C	T	CALC NOT SET TO RUN	1.00 g	100 mL			
680-107159-A-8	FM0281D-CS18"	3050B, 6010C	T	CALC NOT SET TO RUN	1.03 g	100 mL			
680-107159-A-9	FM0281D-CS24"	3050B, 6010C	T	CALC NOT SET TO RUN	1.00 g	100 mL			
680-107159-A-10	FM0281C-CS6"	3050B, 6010C	T	CALC NOT SET TO RUN	1.10 g	100 mL			
680-107159-A-11	FM0281C-CS12"	3050B, 6010C	T	CALC NOT SET TO RUN	1.02 g	100 mL			
680-107159-A-13	FM0281G-CS6"	3050B, 6010C	T	CALC NOT SET TO RUN	1.02 g	100 mL			
680-107159-A-14	FM0281G-CS12"	3050B, 6010C	T	CALC NOT SET TO RUN	1.04 g	100 mL			
680-107159-A-15	FM0281G-CS18"	3050B, 6010C	T	CALC NOT SET TO RUN	1.13 g	100 mL			
680-107159-A-16	FM0281G-CS24"	3050B, 6010C	T	CALC NOT SET TO RUN	1.08 g	100 mL			
680-107159-A-17	FM0281G-CSD12"	3050B, 6010C	T	CALC NOT SET TO RUN	1.03 g	100 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.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-107159-1

SDG No.: 680-107159-1

Batch Number: 358466 Batch Start Date: 11/13/14 09:36 Batch Analyst: West, Ryan

Batch Method: 3050B Batch End Date: 11/13/14 15:41

Batch Notes	
Analyst	CRW
Balance ID	ME 25
Blank Soil Lot Number	3818263
Hydrogen peroxide lot number	3804513
Lot # of hydrochloric acid	3822129
Lot # of Nitric Acid	3822131
Hood ID or number	FH8
Hot Block ID number	10
Nominal Amount Used	1 g
Oven, Bath or Block Temperature 1	99 Degrees C
Oven, Bath or Block Temperature 2	98 Degrees C
Pipette ID	ME16
Perform Calculation (0=No, 1=Yes)	0
ID number of the thermometer	ME Prep 15
Digestion Tube/Cup Lot #	3797047
Uncorrected Temperature	97 Celsius
Uncorrected Temperature 2	96 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 78143

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.: 20140706-1006	PROJECT LOCATION (STATE): AL
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Russell Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX: 770-528-0167
CLIENT NAME: OTIE	CLIENT E-MAIL: rhenderson@otie.com	
CLIENT ADDRESS: 1200 Kennestone Cir. Ste. 106, Marietta, GA 30066		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	Ice L.L. PAH (NUMBER OF CONTAINERS SUBMITTED)	Ice Al, As, Fe, Pb (NUMBER OF CONTAINERS SUBMITTED)	REMARKS
11/7/14	0831	FM0281A-CS6"	X					X	X	
	0841	FM0281A-CS12"	X					X	X	
	0851	FM0281A-CS18"	X					X	X	
	0901	FM0281A-CS24"	X					X	X	7 day TAT
	0836	FM0281A-CS36"	X					X	X	
	0930	FM0281D-CS6"	X					X	X	
	0941	FM0281D-CS12"	X					X	X	
	0950	FM0281D-CS18"	X					X	X	
	0959	FM0281D-CS24"	X					X	X	
	1030	FM0281C-CS6"	X					X	X	
	1040	FM0281C-CS12"	X					X	X	
11/7/14	1050	FM0281C-CS18"	X					X	X	MS/MSD

PRESERVATIVE: Ice L.L. PAH; Ice Al, As, Fe, Pb

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	11/10/14	1200						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME		TE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABOI
[signature]	11/12/14	0934	YES ◯ NO ◯		680-107159	

680-107159 Chain of Custody

2.2°C

TAL8240-680 (1008)

Serial Number 85594

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

(X) TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

( ) Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

Same as page #1

PAGE 2 OF 2

STANDARD REPORT DELIVERY ( )

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) (X)

DATE DUE 7 days TAT

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	L.L. PAH	Al, As, Fe, Pb									REMARKS
								Icp	Icp	PRESERVATIVE								
11/7/14	1125	FM0281G-CS6"	X					X	X									7 day TAT
	1135	FM0281G-CS12"	X					X	X									
	1145	FM0281G-CS18"	X					X	X									
	1155	FM0281G-CS24"	X					X	X									
11/7/14	1140	FM0281G-CSD12"	X					X	X									

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	11/10/14	1200						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	11/12/14	0934	YES ( ) NO ( )		680 107159	2.2°C

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107159-1
SDG Number: 680-107159-1

Login Number: 107159
List Number: 1
Creator: Banda, Christy S

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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: 680-107159-1
TestAmerica Sample Delivery Group: 680-107159-1
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:
11/21/2014 2:45:33 PM

Lisa Harvey, Project Manager II
(912)354-7858 e.3221
lisa.harvey@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Job ID: 680-107159-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-107159-1

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 the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 11/12/2014 9:34 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH

Samples FM0281A-CS6" (680-107159-1), FM0281A-CS12" (680-107159-2), FM0281A-CS18" (680-107159-3), FM0281A-CS24" (680-107159-4), FM0281A-CSD6" (680-107159-5), FM0281D-CS6" (680-107159-6), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281D-CS24" (680-107159-9), FM0281C-CS6" (680-107159-10), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281G-CS6" (680-107159-13), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS24" (680-107159-16) and FM0281G-CSD12" (680-107159-17) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D. The samples were prepared on 11/12/2014 and analyzed on 11/18/2014, 11/19/2014 and 11/20/2014.

Method(s) 8270D_LL_PAH: The following sample(s) was diluted due to the nature of the sample matrix : FM0281A-CS18" (680-107159-3), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281C-CS18" (680-107159-12 MS), FM0281C-CS18" (680-107159-12 MSD), FM0281C-CS6" (680-107159-10), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS6" (680-107159-13), FM0281G-CSD12" (680-107159-17), FM0281A-CS12" (680-107159-2), FM0281A-CS6" (680-107159-1), FM0281D-CS6" (680-107159-6). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D_LL_PAH: The following sample(s) was diluted due to the nature of the sample matrix and abundance of target analytes: FM0281A-CSD6" (680-107159-5). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D_LL_PAH: Manual integration was performed on the following sample(s): FM0281A-CS18" (680-107159-3), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281C-CS6" (680-107159-10), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281D-CS24" (680-107159-9), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS24" (680-107159-16), FM0281G-CS6" (680-107159-13), FM0281G-CSD12" (680-107159-17), FM0281A-CS12" (680-107159-2), FM0281A-CS6" (680-107159-1), FM0281D-CS6" (680-107159-6), FM0281A-CSD6" (680-107159-5).

Indeno[1,2,3-cd]pyrene recovery is outside criteria low for the MSD of sample FM0281C-CS18" (680-107159-12) in batch 680-359245.

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

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICP)

Samples FM0281A-CS6" (680-107159-1), FM0281A-CS12" (680-107159-2), FM0281A-CS18" (680-107159-3), FM0281A-CS24"

Job ID: 680-107159-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

(680-107159-4), FM0281A-CSD6" (680-107159-5), FM0281D-CS6" (680-107159-6), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281D-CS24" (680-107159-9), FM0281C-CS6" (680-107159-10), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281G-CS6" (680-107159-13), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS24" (680-107159-16) and FM0281G-CSD12" (680-107159-17) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 11/13/2014 and analyzed on 11/14/2014.

Iron recovery is outside criteria low for the MS of sample FM0281C-CS18" (680-107159-12) in batch 680-359069. Aluminum recovery is outside criteria high.

Aluminum, Arsenic and Iron have recovery outside criteria high for the MSD of sample FM0281C-CS18" (680-107159-12) in batch 680-359069. Arsenic and Iron exceeded the RPD limit.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS/MOISTURE

Samples FM0281A-CS6" (680-107159-1), FM0281A-CS12" (680-107159-2), FM0281A-CS18" (680-107159-3), FM0281A-CS24" (680-107159-4), FM0281A-CSD6" (680-107159-5), FM0281D-CS6" (680-107159-6), FM0281D-CS12" (680-107159-7), FM0281D-CS18" (680-107159-8), FM0281D-CS24" (680-107159-9), FM0281C-CS6" (680-107159-10), FM0281C-CS12" (680-107159-11), FM0281C-CS18" (680-107159-12), FM0281G-CS6" (680-107159-13), FM0281G-CS12" (680-107159-14), FM0281G-CS18" (680-107159-15), FM0281G-CS24" (680-107159-16) and FM0281G-CSD12" (680-107159-17) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 11/12/2014.

Sample Summary

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-107159-1	FM0281A-CS6"	Solid	11/07/14 08:31	11/12/14 09:34
680-107159-2	FM0281A-CS12"	Solid	11/07/14 08:41	11/12/14 09:34
680-107159-3	FM0281A-CS18"	Solid	11/07/14 08:51	11/12/14 09:34
680-107159-4	FM0281A-CS24"	Solid	11/07/14 09:01	11/12/14 09:34
680-107159-5	FM0281A-CSD6"	Solid	11/07/14 08:36	11/12/14 09:34
680-107159-6	FM0281D-CS6"	Solid	11/07/14 09:30	11/12/14 09:34
680-107159-7	FM0281D-CS12"	Solid	11/07/14 09:41	11/12/14 09:34
680-107159-8	FM0281D-CS18"	Solid	11/07/14 09:50	11/12/14 09:34
680-107159-9	FM0281D-CS24"	Solid	11/07/14 09:59	11/12/14 09:34
680-107159-10	FM0281C-CS6"	Solid	11/07/14 10:30	11/12/14 09:34
680-107159-11	FM0281C-CS12"	Solid	11/07/14 10:40	11/12/14 09:34
680-107159-12	FM0281C-CS18"	Solid	11/07/14 10:50	11/12/14 09:34
680-107159-13	FM0281G-CS6"	Solid	11/07/14 11:25	11/12/14 09:34
680-107159-14	FM0281G-CS12"	Solid	11/07/14 11:35	11/12/14 09:34
680-107159-15	FM0281G-CS18"	Solid	11/07/14 11:45	11/12/14 09:34
680-107159-16	FM0281G-CS24"	Solid	11/07/14 11:55	11/12/14 09:34
680-107159-17	FM0281G-CSD12"	Solid	11/07/14 11:40	11/12/14 09:34

Method Summary

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Method	Method Description	Protocol	Laboratory
8270D_LL_PAH	Semivolatile Organic Compounds (GC/MS) Low level PAH	SW846	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
Moisture	Percent Moisture	EPA	TAL SAV

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 SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
F1	MS and/or MSD Recovery exceeds the control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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)
NC	Not Calculated
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: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281A-CS6"

Lab Sample ID: 680-107159-1

Date Collected: 11/07/14 08:31
Date Received: 11/12/14 09:34

Matrix: Solid
Percent Solids: 88.2

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	690		150	75	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20
Acenaphthylene	150	U	150	75	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20
Anthracene	1800		150	75	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20
Benzo[a]anthracene	6400		150	75	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20
Benzo[a]pyrene	5200		150	27	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20
Benzo[b]fluoranthene	7100		150	75	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20
Benzo[g,h,i]perylene	3200		150	75	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20
Benzo[k]fluoranthene	3400		150	45	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20
Chrysene	6100		150	75	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20
Dibenz(a,h)anthracene	1100		150	75	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20
Fluoranthene	12000		150	75	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20
Fluorene	670		150	75	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20
Indeno[1,2,3-cd]pyrene	3000		150	75	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20
1-Methylnaphthalene	140	J	150	70	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20
2-Methylnaphthalene	170		150	75	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20
Naphthalene	370		150	75	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20
Phenanthrene	8100		150	54	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20
Pyrene	9400		150	75	ug/Kg	☼	11/12/14 15:01	11/19/14 15:53	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/12/14 15:01*	*11/19/14 15:53*	*20*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		21	10	mg/Kg	☼	11/13/14 09:36	11/14/14 18:38	1
Arsenic	31		2.1	0.61	mg/Kg	☼	11/13/14 09:36	11/14/14 18:38	1
Iron	47000		21	7.3	mg/Kg	☼	11/13/14 09:36	11/14/14 18:38	1
Lead	130		1.0	0.55	mg/Kg	☼	11/13/14 09:36	11/14/14 18:38	1

Client Sample Results

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281A-CS12"

Lab Sample ID: 680-107159-2

Date Collected: 11/07/14 08:41
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 86.3

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	920		150	76	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20
Acenaphthylene	150	U	150	76	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20
Anthracene	2500		150	76	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20
Benzo[a]anthracene	7000		150	76	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20
Benzo[a]pyrene	5800		150	28	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20
Benzo[b]fluoranthene	8500		150	76	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20
Benzo[g,h,i]perylene	3700		150	76	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20
Benzo[k]fluoranthene	3100		150	46	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20
Chrysene	7200		150	76	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20
Dibenz(a,h)anthracene	1200		150	76	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20
Fluoranthene	15000		150	76	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20
Fluorene	920		150	76	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20
Indeno[1,2,3-cd]pyrene	3600		150	76	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20
1-Methylnaphthalene	220		150	72	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20
2-Methylnaphthalene	320		150	76	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20
Naphthalene	670		150	76	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20
Phenanthrene	13000		150	55	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20
Pyrene	11000		150	76	ug/Kg	☼	11/12/14 15:01	11/19/14 16:16	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/12/14 15:01*	*11/19/14 16:16*	*20*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		21	11	mg/Kg	☼	11/13/14 09:36	11/14/14 18:42	1
Arsenic	29		2.1	0.63	mg/Kg	☼	11/13/14 09:36	11/14/14 18:42	1
Iron	35000		21	7.5	mg/Kg	☼	11/13/14 09:36	11/14/14 18:42	1
Lead	64		1.1	0.57	mg/Kg	☼	11/13/14 09:36	11/14/14 18:42	1

Client Sample Results

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281A-CS18"

Lab Sample ID: 680-107159-3

Date Collected: 11/07/14 08:51
Date Received: 11/12/14 09:34

Matrix: Solid
Percent Solids: 72.1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	61	J	93	46	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10
Acenaphthylene	93	U	93	46	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10
Anthracene	160		93	46	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10
Benzo[a]anthracene	580		93	46	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10
Benzo[a]pyrene	520		93	17	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10
Benzo[b]fluoranthene	720		93	46	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10
Benzo[g,h,i]perylene	280		93	46	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10
Benzo[k]fluoranthene	230		93	28	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10
Chrysene	590		93	46	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10
Dibenz(a,h)anthracene	100		93	46	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10
Fluoranthene	1000		93	46	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10
Fluorene	69	J	93	46	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10
Indeno[1,2,3-cd]pyrene	220		93	46	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10
1-Methylnaphthalene	93	U	93	43	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10
2-Methylnaphthalene	93	U	93	46	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10
Naphthalene	93	U	93	46	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10
Phenanthrene	590		93	33	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10
Pyrene	960		93	46	ug/Kg	☼	11/12/14 15:01	11/18/14 18:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/12/14 15:01*	*11/18/14 18:07*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		24	12	mg/Kg	☼	11/13/14 09:36	11/14/14 18:46	1
Arsenic	16		2.4	0.71	mg/Kg	☼	11/13/14 09:36	11/14/14 18:46	1
Iron	30000		24	8.4	mg/Kg	☼	11/13/14 09:36	11/14/14 18:46	1
Lead	38		1.2	0.63	mg/Kg	☼	11/13/14 09:36	11/14/14 18:46	1

Client Sample Results

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281A-CS24"

Lab Sample ID: 680-107159-4

Date Collected: 11/07/14 09:01
Date Received: 11/12/14 09:34

Matrix: Solid
Percent Solids: 84.9

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	7.9	U	7.9	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1
Acenaphthylene	7.9	U	7.9	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1
Anthracene	7.9	U	7.9	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1
Benzo[a]pyrene	7.9	U	7.9	1.4	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1
Benzo[b]fluoranthene	7.9	U	7.9	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1
Benzo[g,h,i]perylene	7.9	U	7.9	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1
Benzo[k]fluoranthene	7.9	U	7.9	2.4	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1
Chrysene	7.9	U	7.9	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1
Dibenz(a,h)anthracene	7.9	U	7.9	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1
Fluoranthene	7.9	U	7.9	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1
Fluorene	7.9	U	7.9	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1
Indeno[1,2,3-cd]pyrene	7.9	U	7.9	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1
1-Methylnaphthalene	7.9	U	7.9	3.7	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1
2-Methylnaphthalene	7.9	U	7.9	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1
Naphthalene	7.9	U	7.9	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1
Phenanthrene	7.9	U	7.9	2.8	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1
Pyrene	7.9	U	7.9	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98*		*36 - 131*	*11/12/14 15:01*	*11/18/14 18:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		23	11	mg/Kg	☼	11/13/14 09:36	11/14/14 18:51	1
Arsenic	**23**		2.3	0.67	mg/Kg	☼	11/13/14 09:36	11/14/14 18:51	1
Iron	**59000**		23	8.0	mg/Kg	☼	11/13/14 09:36	11/14/14 18:51	1
Lead	**11**		1.1	0.61	mg/Kg	☼	11/13/14 09:36	11/14/14 18:51	1

Client Sample Results

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281A-CSD6"

Lab Sample ID: 680-107159-5

Date Collected: 11/07/14 08:36
Date Received: 11/12/14 09:34

Matrix: Solid
Percent Solids: 85.4

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	25000		3900	1900	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500
Acenaphthylene	3900	U	3900	1900	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500
Anthracene	51000		3900	1900	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500
Benzo[a]anthracene	97000		3900	1900	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500
Benzo[a]pyrene	80000		3900	700	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500
Benzo[b]fluoranthene	97000		3900	1900	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500
Benzo[g,h,i]perylene	42000		3900	1900	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500
Benzo[k]fluoranthene	33000		3900	1200	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500
Chrysene	100000		3900	1900	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500
Dibenz(a,h)anthracene	16000		3900	1900	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500
Fluoranthene	240000		3900	1900	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500
Fluorene	26000		3900	1900	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500
Indeno[1,2,3-cd]pyrene	42000		3900	1900	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500
1-Methylnaphthalene	3400	J	3900	1800	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500
2-Methylnaphthalene	5700		3900	1900	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500
Naphthalene	16000		3900	1900	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500
Phenanthrene	200000		3900	1400	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500
Pyrene	170000		3900	1900	ug/Kg	☼	11/12/14 15:01	11/20/14 16:13	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/12/14 15:01*	*11/20/14 16:13*	*500*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		21	11	mg/Kg	☼	11/13/14 09:36	11/14/14 18:55	1
Arsenic	38		2.1	0.63	mg/Kg	☼	11/13/14 09:36	11/14/14 18:55	1
Iron	39000		21	7.5	mg/Kg	☼	11/13/14 09:36	11/14/14 18:55	1
Lead	240		1.1	0.57	mg/Kg	☼	11/13/14 09:36	11/14/14 18:55	1

Client Sample Results

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281D-CS6"

Lab Sample ID: 680-107159-6

Date Collected: 11/07/14 09:30
Date Received: 11/12/14 09:34

Matrix: Solid
Percent Solids: 83.5

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1100		400	200	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50
Acenaphthylene	400	U	400	200	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50
Anthracene	3300		400	200	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50
Benzo[a]anthracene	12000		400	200	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50
Benzo[a]pyrene	9100		400	72	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50
Benzo[b]fluoranthene	13000		400	200	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50
Benzo[g,h,i]perylene	5300		400	200	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50
Benzo[k]fluoranthene	5700		400	120	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50
Chrysene	11000		400	200	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50
Dibenz(a,h)anthracene	2000		400	200	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50
Fluoranthene	22000		400	200	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50
Fluorene	1100		400	200	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50
Indeno[1,2,3-cd]pyrene	5200		400	200	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50
1-Methylnaphthalene	220	J	400	190	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50
2-Methylnaphthalene	280	J	400	200	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50
Naphthalene	460		400	200	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50
Phenanthrene	14000		400	140	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50
Pyrene	17000		400	200	ug/Kg	☼	11/12/14 15:01	11/19/14 17:01	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/12/14 15:01*	*11/19/14 17:01*	*50*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		23	12	mg/Kg	☼	11/13/14 09:36	11/14/14 18:59	1
Arsenic	29		2.3	0.69	mg/Kg	☼	11/13/14 09:36	11/14/14 18:59	1
Iron	39000		23	8.1	mg/Kg	☼	11/13/14 09:36	11/14/14 18:59	1
Lead	99		1.2	0.62	mg/Kg	☼	11/13/14 09:36	11/14/14 18:59	1

Client Sample Results

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281D-CS12"

Lab Sample ID: 680-107159-7

Date Collected: 11/07/14 09:41
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 86.2

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	78	U	78	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10
Acenaphthylene	78	U	78	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10
Anthracene	**66**	**J**	78	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10
Benzo[a]anthracene	**340**		78	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10
Benzo[a]pyrene	**390**		78	14	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10
Benzo[b]fluoranthene	**500**		78	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10
Benzo[g,h,i]perylene	**230**		78	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10
Benzo[k]fluoranthene	**200**		78	23	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10
Chrysene	**380**		78	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10
Dibenz(a,h)anthracene	**90**		78	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10
Fluoranthene	**580**		78	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10
Fluorene	78	U	78	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10
Indeno[1,2,3-cd]pyrene	**180**		78	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10
1-Methylnaphthalene	78	U	78	36	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10
2-Methylnaphthalene	78	U	78	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10
Naphthalene	**43**	**J**	78	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10
Phenanthrene	**320**		78	28	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10
Pyrene	**560**		78	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/12/14 15:01*	*11/18/14 19:36*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		23	12	mg/Kg	☼	11/13/14 09:36	11/14/14 19:03	1
Arsenic	**21**		2.3	0.68	mg/Kg	☼	11/13/14 09:36	11/14/14 19:03	1
Iron	**38000**		23	8.1	mg/Kg	☼	11/13/14 09:36	11/14/14 19:03	1
Lead	**38**		1.2	0.62	mg/Kg	☼	11/13/14 09:36	11/14/14 19:03	1

Client Sample Results

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281D-CS18"

Lab Sample ID: 680-107159-8

Date Collected: 11/07/14 09:50
Date Received: 11/12/14 09:34

Matrix: Solid
Percent Solids: 86.6

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	77	U	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10
Acenaphthylene	77	U	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10
Anthracene	77	U	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10
Benzo[a]anthracene	**65**	**J**	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10
Benzo[a]pyrene	**68**	**J**	77	14	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10
Benzo[b]fluoranthene	**78**		77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10
Benzo[g,h,i]perylene	**76**	**J**	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10
Benzo[k]fluoranthene	**43**	**J**	77	23	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10
Chrysene	**75**	**J**	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10
Dibenz(a,h)anthracene	77	U	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10
Fluoranthene	**120**		77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10
Fluorene	77	U	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10
Indeno[1,2,3-cd]pyrene	**54**	**J**	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10
1-Methylnaphthalene	77	U	77	36	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10
2-Methylnaphthalene	77	U	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10
Naphthalene	77	U	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10
Phenanthrene	**73**	**J**	77	28	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10
Pyrene	**110**		77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 19:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/12/14 15:01*	*11/18/14 19:58*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		22	11	mg/Kg	☼	11/13/14 09:36	11/14/14 19:08	1
Arsenic	**16**		2.2	0.66	mg/Kg	☼	11/13/14 09:36	11/14/14 19:08	1
Iron	**31000**		22	7.9	mg/Kg	☼	11/13/14 09:36	11/14/14 19:08	1
Lead	**30**		1.1	0.59	mg/Kg	☼	11/13/14 09:36	11/14/14 19:08	1

Client Sample Results

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281D-CS24"

Lab Sample ID: 680-107159-9

Date Collected: 11/07/14 09:59
Date Received: 11/12/14 09:34

Matrix: Solid
Percent Solids: 85.0

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	20		7.8	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1
Acenaphthylene	7.8	U	7.8	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1
Anthracene	43		7.8	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1
Benzo[a]anthracene	130		7.8	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1
Benzo[a]pyrene	100		7.8	1.4	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1
Benzo[b]fluoranthene	150		7.8	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1
Benzo[g,h,i]perylene	54		7.8	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1
Benzo[k]fluoranthene	50		7.8	2.3	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1
Chrysene	130		7.8	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1
Dibenz(a,h)anthracene	20		7.8	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1
Fluoranthene	240		7.8	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1
Fluorene	23		7.8	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1
Indeno[1,2,3-cd]pyrene	46		7.8	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1
1-Methylnaphthalene	6.5	J	7.8	3.6	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1
2-Methylnaphthalene	8.4		7.8	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1
Naphthalene	14		7.8	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1
Phenanthrene	200		7.8	2.8	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1
Pyrene	220		7.8	3.9	ug/Kg	☼	11/12/14 15:01	11/18/14 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*107*		*36 - 131*	*11/12/14 15:01*	*11/18/14 20:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		24	12	mg/Kg	☼	11/13/14 09:36	11/14/14 19:12	1
Arsenic	9.7		2.4	0.69	mg/Kg	☼	11/13/14 09:36	11/14/14 19:12	1
Iron	24000		24	8.2	mg/Kg	☼	11/13/14 09:36	11/14/14 19:12	1
Lead	23		1.2	0.62	mg/Kg	☼	11/13/14 09:36	11/14/14 19:12	1

Client Sample Results

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281C-CS6"

Lab Sample ID: 680-107159-10

Date Collected: 11/07/14 10:30
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 91.2

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	73	U	73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10
Acenaphthylene	73	U	73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10
Anthracene	73	U	73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10
Benzo[a]anthracene	**140**		73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10
Benzo[a]pyrene	**140**		73	13	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10
Benzo[b]fluoranthene	**250**		73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10
Benzo[g,h,i]perylene	**93**		73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10
Benzo[k]fluoranthene	**92**		73	22	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10
Chrysene	**170**		73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10
Dibenz(a,h)anthracene	**38**	**J**	73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10
Fluoranthene	**190**		73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10
Fluorene	73	U	73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10
Indeno[1,2,3-cd]pyrene	**71**	**J**	73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10
1-Methylnaphthalene	73	U	73	34	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10
2-Methylnaphthalene	73	U	73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10
Naphthalene	73	U	73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10
Phenanthrene	**77**		73	26	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10
Pyrene	**220**		73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 20:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/12/14 15:01*	*11/18/14 20:43*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5700**		20	10	mg/Kg	☼	11/13/14 09:36	11/14/14 19:16	1
Arsenic	**31**		2.0	0.59	mg/Kg	☼	11/13/14 09:36	11/14/14 19:16	1
Iron	**46000**		20	7.0	mg/Kg	☼	11/13/14 09:36	11/14/14 19:16	1
Lead	**220**		1.0	0.53	mg/Kg	☼	11/13/14 09:36	11/14/14 19:16	1

Client Sample Results

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281C-CS12"

Lab Sample ID: 680-107159-11

Date Collected: 11/07/14 10:40
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 90.7

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	74	U	74	36	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10
Acenaphthylene	74	U	74	36	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10
Anthracene	74	U	74	36	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10
Benzo[a]anthracene	**190**		74	36	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10
Benzo[a]pyrene	**280**		74	13	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10
Benzo[b]fluoranthene	**460**		74	36	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10
Benzo[g,h,i]perylene	**220**		74	36	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10
Benzo[k]fluoranthene	**130**		74	22	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10
Chrysene	**300**		74	36	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10
Dibenz(a,h)anthracene	**79**		74	36	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10
Fluoranthene	**310**		74	36	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10
Fluorene	74	U	74	36	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10
Indeno[1,2,3-cd]pyrene	**180**		74	36	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10
1-Methylnaphthalene	74	U	74	34	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10
2-Methylnaphthalene	74	U	74	36	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10
Naphthalene	74	U	74	36	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10
Phenanthrene	**130**		74	26	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10
Pyrene	**330**		74	36	ug/Kg	☼	11/12/14 15:01	11/18/14 21:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/12/14 15:01*	*11/18/14 21:05*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6500**		22	11	mg/Kg	☼	11/13/14 09:36	11/14/14 19:29	1
Arsenic	**17**		2.2	0.64	mg/Kg	☼	11/13/14 09:36	11/14/14 19:29	1
Iron	**32000**		22	7.6	mg/Kg	☼	11/13/14 09:36	11/14/14 19:29	1
Lead	**150**		1.1	0.57	mg/Kg	☼	11/13/14 09:36	11/14/14 19:29	1

Client Sample Results

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281C-CS18"

Lab Sample ID: 680-107159-12

Date Collected: 11/07/14 10:50
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 91.9

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	73	U	73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10
Acenaphthylene	73	U	73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10
Anthracene	73	U	73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10
Benzo[a]anthracene	**73**		73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10
Benzo[a]pyrene	**100**		73	13	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10
Benzo[b]fluoranthene	**170**		73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10
Benzo[g,h,i]perylene	**100**		73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10
Benzo[k]fluoranthene	**59**	**J**	73	22	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10
Chrysene	**110**		73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10
Dibenz(a,h)anthracene	73	U	73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10
Fluoranthene	**140**		73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10
Fluorene	73	U	73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10
Indeno[1,2,3-cd]pyrene	**67**	**J**	73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10
1-Methylnaphthalene	73	U	73	34	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10
2-Methylnaphthalene	73	U	73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10
Naphthalene	73	U	73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10
Phenanthrene	**81**		73	26	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10
Pyrene	**140**		73	36	ug/Kg	☼	11/12/14 15:01	11/18/14 16:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/12/14 15:01*	*11/18/14 16:59*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5100**		22	11	mg/Kg	☼	11/13/14 09:36	11/14/14 18:08	1
Arsenic	**11**		2.2	0.64	mg/Kg	☼	11/13/14 09:36	11/14/14 18:08	1
Iron	**21000**		22	7.5	mg/Kg	☼	11/13/14 09:36	11/14/14 18:08	1
Lead	**110**		1.1	0.57	mg/Kg	☼	11/13/14 09:36	11/14/14 18:08	1

Client Sample Results

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281G-CS6"

Lab Sample ID: 680-107159-13

Date Collected: 11/07/14 11:25
Date Received: 11/12/14 09:34

Matrix: Solid
Percent Solids: 86.3

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	77	U	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10
Acenaphthylene	77	U	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10
Anthracene	77	U	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10
Benzo[a]anthracene	**74**	**J**	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10
Benzo[a]pyrene	**82**		77	14	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10
Benzo[b]fluoranthene	**120**		77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10
Benzo[g,h,i]perylene	**74**	**J**	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10
Benzo[k]fluoranthene	**33**	**J**	77	23	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10
Chrysene	**100**		77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10
Dibenz(a,h)anthracene	77	U	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10
Fluoranthene	**140**		77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10
Fluorene	77	U	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10
Indeno[1,2,3-cd]pyrene	**49**	**J**	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10
1-Methylnaphthalene	77	U	77	36	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10
2-Methylnaphthalene	77	U	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10
Naphthalene	77	U	77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10
Phenanthrene	**85**		77	28	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10
Pyrene	**150**		77	38	ug/Kg	☼	11/12/14 15:01	11/18/14 21:27	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/12/14 15:01*	*11/18/14 21:27*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		23	11	mg/Kg	☼	11/13/14 09:36	11/14/14 19:33	1
Arsenic	**23**		2.3	0.67	mg/Kg	☼	11/13/14 09:36	11/14/14 19:33	1
Iron	**46000**		23	7.9	mg/Kg	☼	11/13/14 09:36	11/14/14 19:33	1
Lead	**200**		1.1	0.60	mg/Kg	☼	11/13/14 09:36	11/14/14 19:33	1

Client Sample Results

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281G-CS12"

Lab Sample ID: 680-107159-14

Date Collected: 11/07/14 11:35
Date Received: 11/12/14 09:34

Matrix: Solid
Percent Solids: 88.4

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	76	U	76	37	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10
Acenaphthylene	76	U	76	37	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10
Anthracene	76	U	76	37	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10
Benzo[a]anthracene	**41**	**J**	76	37	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10
Benzo[a]pyrene	**45**	**J**	76	14	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10
Benzo[b]fluoranthene	**68**	**J**	76	37	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10
Benzo[g,h,i]perylene	**50**	**J**	76	37	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10
Benzo[k]fluoranthene	76	U	76	23	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10
Chrysene	**58**	**J**	76	37	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10
Dibenz(a,h)anthracene	76	U	76	37	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10
Fluoranthene	**63**	**J**	76	37	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10
Fluorene	76	U	76	37	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10
Indeno[1,2,3-cd]pyrene	76	U	76	37	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10
1-Methylnaphthalene	**43**	**J**	76	35	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10
2-Methylnaphthalene	**53**	**J**	76	37	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10
Naphthalene	**44**	**J**	76	37	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10
Phenanthrene	**46**	**J**	76	27	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10
Pyrene	**69**	**J**	76	37	ug/Kg	☼	11/12/14 15:01	11/18/14 21:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/12/14 15:01*	*11/18/14 21:49*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		22	11	mg/Kg	☼	11/13/14 09:36	11/14/14 19:38	1
Arsenic	**14**		2.2	0.64	mg/Kg	☼	11/13/14 09:36	11/14/14 19:38	1
Iron	**23000**		22	7.6	mg/Kg	☼	11/13/14 09:36	11/14/14 19:38	1
Lead	**120**		1.1	0.58	mg/Kg	☼	11/13/14 09:36	11/14/14 19:38	1

Client Sample Results

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281G-CS18"

Lab Sample ID: 680-107159-15

Date Collected: 11/07/14 11:45
Date Received: 11/12/14 09:34

Matrix: Solid
Percent Solids: 81.3

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	82	U	82	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10
Acenaphthylene	82	U	82	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10
Anthracene	82	U	82	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10
Benzo[a]anthracene	**56**	**J**	82	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10
Benzo[a]pyrene	**55**	**J**	82	15	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10
Benzo[b]fluoranthene	**89**		82	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10
Benzo[g,h,i]perylene	**65**	**J**	82	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10
Benzo[k]fluoranthene	82	U	82	25	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10
Chrysene	**79**	**J**	82	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10
Dibenz(a,h)anthracene	82	U	82	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10
Fluoranthene	**86**		82	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10
Fluorene	82	U	82	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10
Indeno[1,2,3-cd]pyrene	**40**	**J**	82	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10
1-Methylnaphthalene	**38**	**J**	82	38	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10
2-Methylnaphthalene	**42**	**J**	82	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10
Naphthalene	82	U	82	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10
Phenanthrene	**67**	**J**	82	29	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10
Pyrene	**91**		82	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/12/14 15:01*	*11/18/14 22:11*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		22	11	mg/Kg	☼	11/13/14 09:36	11/14/14 19:42	1
Arsenic	**13**		2.2	0.64	mg/Kg	☼	11/13/14 09:36	11/14/14 19:42	1
Iron	**22000**		22	7.6	mg/Kg	☼	11/13/14 09:36	11/14/14 19:42	1
Lead	**87**		1.1	0.58	mg/Kg	☼	11/13/14 09:36	11/14/14 19:42	1

Client Sample Results

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281G-CS24"

Lab Sample ID: 680-107159-16

Date Collected: 11/07/14 11:55
Date Received: 11/12/14 09:34

Matrix: Solid
Percent Solids: 91.0

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	7.3	U	7.3	3.6	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1
Acenaphthylene	7.3	U	7.3	3.6	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1
Anthracene	7.3	U	7.3	3.6	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1
Benzo[a]anthracene	**12**		7.3	3.6	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1
Benzo[a]pyrene	**12**		7.3	1.3	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1
Benzo[b]fluoranthene	**21**		7.3	3.6	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1
Benzo[g,h,i]perylene	**9.2**		7.3	3.6	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1
Benzo[k]fluoranthene	**6.2**	**J**	7.3	2.2	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1
Chrysene	**21**		7.3	3.6	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1
Dibenz(a,h)anthracene	7.3	U	7.3	3.6	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1
Fluoranthene	**20**		7.3	3.6	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1
Fluorene	7.3	U	7.3	3.6	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1
Indeno[1,2,3-cd]pyrene	**6.0**	**J**	7.3	3.6	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1
1-Methylnaphthalene	**11**		7.3	3.4	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1
2-Methylnaphthalene	**11**		7.3	3.6	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1
Naphthalene	**6.5**	**J**	7.3	3.6	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1
Phenanthrene	**18**		7.3	2.6	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1
Pyrene	7.3	U	7.3	3.6	ug/Kg	☼	11/12/14 15:01	11/18/14 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*108*		*36 - 131*	*11/12/14 15:01*	*11/18/14 22:34*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8800**		20	10	mg/Kg	☼	11/13/14 09:36	11/14/14 19:46	1
Arsenic	**8.7**		2.0	0.60	mg/Kg	☼	11/13/14 09:36	11/14/14 19:46	1
Iron	**15000**		20	7.1	mg/Kg	☼	11/13/14 09:36	11/14/14 19:46	1
Lead	**61**		1.0	0.54	mg/Kg	☼	11/13/14 09:36	11/14/14 19:46	1

Client Sample Results

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281G-CSD12"

Lab Sample ID: 680-107159-17

Date Collected: 11/07/14 11:40
Date Received: 11/12/14 09:34

Matrix: Solid
Percent Solids: 83.1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	80	U	80	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10
Acenaphthylene	80	U	80	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10
Anthracene	80	U	80	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10
Benzo[a]anthracene	80	U	80	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10
Benzo[a]pyrene	**33**	**J**	80	14	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10
Benzo[b]fluoranthene	**52**	**J**	80	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10
Benzo[g,h,i]perylene	**53**	**J**	80	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10
Benzo[k]fluoranthene	80	U	80	24	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10
Chrysene	**44**	**J**	80	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10
Dibenz(a,h)anthracene	80	U	80	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10
Fluoranthene	**50**	**J**	80	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10
Fluorene	80	U	80	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10
Indeno[1,2,3-cd]pyrene	80	U	80	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10
1-Methylnaphthalene	80	U	80	37	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10
2-Methylnaphthalene	80	U	80	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10
Naphthalene	80	U	80	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10
Phenanthrene	**38**	**J**	80	29	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10
Pyrene	80	U	80	40	ug/Kg	☼	11/12/14 15:01	11/18/14 22:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/12/14 15:01*	*11/18/14 22:57*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		23	12	mg/Kg	☼	11/13/14 09:36	11/14/14 19:50	1
Arsenic	**13**		2.3	0.69	mg/Kg	☼	11/13/14 09:36	11/14/14 19:50	1
Iron	**21000**		23	8.2	mg/Kg	☼	11/13/14 09:36	11/14/14 19:50	1
Lead	**110**		1.2	0.62	mg/Kg	☼	11/13/14 09:36	11/14/14 19:50	1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Lab Sample ID: MB 680-358328/18-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 359245 — **Prep Batch: 358328**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	6.7	U	6.7	3.3	ug/Kg		11/12/14 15:01	11/18/14 15:29	1
Acenaphthylene	6.7	U	6.7	3.3	ug/Kg		11/12/14 15:01	11/18/14 15:29	1
Anthracene	6.7	U	6.7	3.3	ug/Kg		11/12/14 15:01	11/18/14 15:29	1
Benzo[a]anthracene	6.7	U	6.7	3.3	ug/Kg		11/12/14 15:01	11/18/14 15:29	1
Benzo[a]pyrene	6.7	U	6.7	1.2	ug/Kg		11/12/14 15:01	11/18/14 15:29	1
Benzo[b]fluoranthene	6.7	U	6.7	3.3	ug/Kg		11/12/14 15:01	11/18/14 15:29	1
Benzo[g,h,i]perylene	6.7	U	6.7	3.3	ug/Kg		11/12/14 15:01	11/18/14 15:29	1
Benzo[k]fluoranthene	6.7	U	6.7	2.0	ug/Kg		11/12/14 15:01	11/18/14 15:29	1
Chrysene	6.7	U	6.7	3.3	ug/Kg		11/12/14 15:01	11/18/14 15:29	1
Dibenz(a,h)anthracene	6.7	U	6.7	3.3	ug/Kg		11/12/14 15:01	11/18/14 15:29	1
Fluoranthene	6.7	U	6.7	3.3	ug/Kg		11/12/14 15:01	11/18/14 15:29	1
Fluorene	6.7	U	6.7	3.3	ug/Kg		11/12/14 15:01	11/18/14 15:29	1
Indeno[1,2,3-cd]pyrene	6.7	U	6.7	3.3	ug/Kg		11/12/14 15:01	11/18/14 15:29	1
1-Methylnaphthalene	6.7	U	6.7	3.1	ug/Kg		11/12/14 15:01	11/18/14 15:29	1
2-Methylnaphthalene	6.7	U	6.7	3.3	ug/Kg		11/12/14 15:01	11/18/14 15:29	1
Naphthalene	6.7	U	6.7	3.3	ug/Kg		11/12/14 15:01	11/18/14 15:29	1
Phenanthrene	6.7	U	6.7	2.4	ug/Kg		11/12/14 15:01	11/18/14 15:29	1
Pyrene	6.7	U	6.7	3.3	ug/Kg		11/12/14 15:01	11/18/14 15:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*36 - 131*	*11/12/14 15:01*	*11/18/14 15:29*	*1*

Lab Sample ID: LCS 680-358328/19-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 359245 — **Prep Batch: 358328**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	333	215		ug/Kg		65	33 - 130
Acenaphthylene	333	221		ug/Kg		66	37 - 131
Anthracene	333	227		ug/Kg		68	42 - 146
Benzo[a]anthracene	333	266		ug/Kg		80	39 - 157
Benzo[a]pyrene	333	264		ug/Kg		79	41 - 158
Benzo[b]fluoranthene	333	266		ug/Kg		80	35 - 152
Benzo[g,h,i]perylene	333	220		ug/Kg		66	32 - 150
Benzo[k]fluoranthene	333	236		ug/Kg		71	38 - 148
Chrysene	333	254		ug/Kg		76	38 - 147
Dibenz(a,h)anthracene	333	242		ug/Kg		73	32 - 155
Fluoranthene	333	263		ug/Kg		79	36 - 147
Fluorene	333	214		ug/Kg		64	36 - 138
Indeno[1,2,3-cd]pyrene	333	253		ug/Kg		76	35 - 148
1-Methylnaphthalene	333	227		ug/Kg		68	36 - 130
2-Methylnaphthalene	333	222		ug/Kg		67	42 - 130
Naphthalene	333	214		ug/Kg		64	33 - 130
Phenanthrene	333	234		ug/Kg		70	40 - 135
Pyrene	333	254		ug/Kg		76	38 - 145

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Lab Sample ID: LCS 680-358328/19-A
Matrix: Solid
Analysis Batch: 359245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 358328

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*80*		*36 - 131*

Lab Sample ID: 680-107159-12 MS
Matrix: Solid
Analysis Batch: 359245

Client Sample ID: FM0281C-CS18"
Prep Type: Total/NA
Prep Batch: 358328

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	73	U	363	246		ug/Kg	☼	68	33 - 130
Acenaphthylene	73	U	363	250		ug/Kg	☼	69	37 - 131
Anthracene	73	U	363	261		ug/Kg	☼	72	42 - 146
Benzo[a]anthracene	73		363	354		ug/Kg	☼	78	39 - 157
Benzo[a]pyrene	100		363	352		ug/Kg	☼	69	41 - 158
Benzo[b]fluoranthene	170		363	439		ug/Kg	☼	74	35 - 152
Benzo[g,h,i]perylene	100		363	304		ug/Kg	☼	56	32 - 150
Benzo[k]fluoranthene	59	J	363	326		ug/Kg	☼	73	38 - 148
Chrysene	110		363	401		ug/Kg	☼	79	38 - 147
Dibenz(a,h)anthracene	73	U	363	254		ug/Kg	☼	70	32 - 155
Fluoranthene	140		363	399		ug/Kg	☼	70	36 - 147
Fluorene	73	U	363	248		ug/Kg	☼	68	36 - 138
Indeno[1,2,3-cd]pyrene	67	J	363	242		ug/Kg	☼	48	35 - 148
1-Methylnaphthalene	73	U	363	266		ug/Kg	☼	73	36 - 130
2-Methylnaphthalene	73	U	363	262		ug/Kg	☼	72	42 - 130
Naphthalene	73	U	363	250		ug/Kg	☼	69	33 - 130
Phenanthrene	81		363	322		ug/Kg	☼	66	40 - 135
Pyrene	140		363	466		ug/Kg	☼	90	38 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*0*	*D*	*36 - 131*

Lab Sample ID: 680-107159-12 MSD
Matrix: Solid
Analysis Batch: 359245

Client Sample ID: FM0281C-CS18"
Prep Type: Total/NA
Prep Batch: 358328

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	73	U	363	197		ug/Kg	☼	54	33 - 130	22	50
Acenaphthylene	73	U	363	196		ug/Kg	☼	54	37 - 131	24	50
Anthracene	73	U	363	211		ug/Kg	☼	58	42 - 146	21	50
Benzo[a]anthracene	73		363	299		ug/Kg	☼	62	39 - 157	17	50
Benzo[a]pyrene	100		363	307		ug/Kg	☼	57	41 - 158	14	50
Benzo[b]fluoranthene	170		363	382		ug/Kg	☼	58	35 - 152	14	50
Benzo[g,h,i]perylene	100		363	228		ug/Kg	☼	35	32 - 150	29	50
Benzo[k]fluoranthene	59	J	363	280		ug/Kg	☼	61	38 - 148	15	50
Chrysene	110		363	347		ug/Kg	☼	65	38 - 147	14	50
Dibenz(a,h)anthracene	73	U	363	190		ug/Kg	☼	53	32 - 155	28	50
Fluoranthene	140		363	370		ug/Kg	☼	62	36 - 147	8	50
Fluorene	73	U	363	203		ug/Kg	☼	56	36 - 138	20	50
Indeno[1,2,3-cd]pyrene	67	J	363	177	F1	ug/Kg	☼	30	35 - 148	31	50
1-Methylnaphthalene	73	U	363	215		ug/Kg	☼	59	36 - 130	21	50

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Lab Sample ID: 680-107159-12 MSD — **Client Sample ID: FM0281C-CS18"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 359245 — **Prep Batch: 358328**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	73	U	363	213		ug/Kg	☼	59	42 - 130	21	50
Naphthalene	73	U	363	195		ug/Kg	☼	54	33 - 130	25	50
Phenanthrene	81		363	281		ug/Kg	☼	55	40 - 135	14	50
Pyrene	140		363	384		ug/Kg	☼	67	38 - 145	19	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*0*	*D*	*36 - 131*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-358466/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 359069 — **Prep Batch: 358466**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19	U	19	9.3	mg/Kg		11/13/14 09:36	11/14/14 18:00	1
Arsenic	1.9	U	1.9	0.55	mg/Kg		11/13/14 09:36	11/14/14 18:00	1
Iron	19	U	19	6.5	mg/Kg		11/13/14 09:36	11/14/14 18:00	1
Lead	0.93	U	0.93	0.50	mg/Kg		11/13/14 09:36	11/14/14 18:00	1

Lab Sample ID: LCS 680-358466/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 359069 — **Prep Batch: 358466**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	442	427		mg/Kg		96	80 - 120
Arsenic	8.85	8.55		mg/Kg		97	80 - 120
Iron	442	430		mg/Kg		97	80 - 120
Lead	44.2	42.6		mg/Kg		96	80 - 120

Lab Sample ID: 680-107159-12 MS — **Client Sample ID: FM0281C-CS18"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 359069 — **Prep Batch: 358466**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5100		528	6280	4	mg/Kg	☼	216	75 - 125
Arsenic	11		10.6	20.2		mg/Kg	☼	84	75 - 125
Iron	21000		528	19000	4	mg/Kg	☼	-290	75 - 125
Lead	110		52.8	153		mg/Kg	☼	89	75 - 125

Lab Sample ID: 680-107159-12 MSD — **Client Sample ID: FM0281C-CS18"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 359069 — **Prep Batch: 358466**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	5100		534	6330	4	mg/Kg	☼	223	75 - 125	1	20
Arsenic	11		10.7	27.7	F1 F2	mg/Kg	☼	154	75 - 125	31	20
Iron	21000		534	27500	4 F2	mg/Kg	☼	1305	75 - 125	37	20

QC Sample Results

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 680-107159-12 MSD — **Client Sample ID: FM0281C-CS18"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 359069 — **Prep Batch: 358466**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	110		53.4	158		mg/Kg	☼	99	75 - 125	4	20

QC Association Summary

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

GC/MS Semi VOA

Prep Batch: 358328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-107159-1	FM0281A-CS6"	Total/NA	Solid	3546	
680-107159-2	FM0281A-CS12"	Total/NA	Solid	3546	
680-107159-3	FM0281A-CS18"	Total/NA	Solid	3546	
680-107159-4	FM0281A-CS24"	Total/NA	Solid	3546	
680-107159-5	FM0281A-CSD6"	Total/NA	Solid	3546	
680-107159-6	FM0281D-CS6"	Total/NA	Solid	3546	
680-107159-7	FM0281D-CS12"	Total/NA	Solid	3546	
680-107159-8	FM0281D-CS18"	Total/NA	Solid	3546	
680-107159-9	FM0281D-CS24"	Total/NA	Solid	3546	
680-107159-10	FM0281C-CS6"	Total/NA	Solid	3546	
680-107159-11	FM0281C-CS12"	Total/NA	Solid	3546	
680-107159-12	FM0281C-CS18"	Total/NA	Solid	3546	
680-107159-12 MS	FM0281C-CS18"	Total/NA	Solid	3546	
680-107159-12 MSD	FM0281C-CS18"	Total/NA	Solid	3546	
680-107159-13	FM0281G-CS6"	Total/NA	Solid	3546	
680-107159-14	FM0281G-CS12"	Total/NA	Solid	3546	
680-107159-15	FM0281G-CS18"	Total/NA	Solid	3546	
680-107159-16	FM0281G-CS24"	Total/NA	Solid	3546	
680-107159-17	FM0281G-CSD12"	Total/NA	Solid	3546	
LCS 680-358328/19-A	Lab Control Sample	Total/NA	Solid	3546	
MB 680-358328/18-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 359245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-107159-3	FM0281A-CS18"	Total/NA	Solid	8270D_LL_PAH	358328
680-107159-4	FM0281A-CS24"	Total/NA	Solid	8270D_LL_PAH	358328
680-107159-7	FM0281D-CS12"	Total/NA	Solid	8270D_LL_PAH	358328
680-107159-8	FM0281D-CS18"	Total/NA	Solid	8270D_LL_PAH	358328
680-107159-9	FM0281D-CS24"	Total/NA	Solid	8270D_LL_PAH	358328
680-107159-10	FM0281C-CS6"	Total/NA	Solid	8270D_LL_PAH	358328
680-107159-11	FM0281C-CS12"	Total/NA	Solid	8270D_LL_PAH	358328
680-107159-12	FM0281C-CS18"	Total/NA	Solid	8270D_LL_PAH	358328
680-107159-12 MS	FM0281C-CS18"	Total/NA	Solid	8270D_LL_PAH	358328
680-107159-12 MSD	FM0281C-CS18"	Total/NA	Solid	8270D_LL_PAH	358328
680-107159-13	FM0281G-CS6"	Total/NA	Solid	8270D_LL_PAH	358328
680-107159-14	FM0281G-CS12"	Total/NA	Solid	8270D_LL_PAH	358328
680-107159-15	FM0281G-CS18"	Total/NA	Solid	8270D_LL_PAH	358328
680-107159-16	FM0281G-CS24"	Total/NA	Solid	8270D_LL_PAH	358328
680-107159-17	FM0281G-CSD12"	Total/NA	Solid	8270D_LL_PAH	358328
LCS 680-358328/19-A	Lab Control Sample	Total/NA	Solid	8270D_LL_PAH	358328
MB 680-358328/18-A	Method Blank	Total/NA	Solid	8270D_LL_PAH	358328

Analysis Batch: 359503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-107159-1	FM0281A-CS6"	Total/NA	Solid	8270D_LL_PAH	358328
680-107159-2	FM0281A-CS12"	Total/NA	Solid	8270D_LL_PAH	358328
680-107159-6	FM0281D-CS6"	Total/NA	Solid	8270D_LL_PAH	358328

Analysis Batch: 359719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-107159-5	FM0281A-CSD6"	Total/NA	Solid	8270D_LL_PAH	358328

QC Association Summary

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Metals

Prep Batch: 358466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-107159-1	FM0281A-CS6"	Total/NA	Solid	3050B	
680-107159-2	FM0281A-CS12"	Total/NA	Solid	3050B	
680-107159-3	FM0281A-CS18"	Total/NA	Solid	3050B	
680-107159-4	FM0281A-CS24"	Total/NA	Solid	3050B	
680-107159-5	FM0281A-CSD6"	Total/NA	Solid	3050B	
680-107159-6	FM0281D-CS6"	Total/NA	Solid	3050B	
680-107159-7	FM0281D-CS12"	Total/NA	Solid	3050B	
680-107159-8	FM0281D-CS18"	Total/NA	Solid	3050B	
680-107159-9	FM0281D-CS24"	Total/NA	Solid	3050B	
680-107159-10	FM0281C-CS6"	Total/NA	Solid	3050B	
680-107159-11	FM0281C-CS12"	Total/NA	Solid	3050B	
680-107159-12	FM0281C-CS18"	Total/NA	Solid	3050B	
680-107159-12 MS	FM0281C-CS18"	Total/NA	Solid	3050B	
680-107159-12 MSD	FM0281C-CS18"	Total/NA	Solid	3050B	
680-107159-13	FM0281G-CS6"	Total/NA	Solid	3050B	
680-107159-14	FM0281G-CS12"	Total/NA	Solid	3050B	
680-107159-15	FM0281G-CS18"	Total/NA	Solid	3050B	
680-107159-16	FM0281G-CS24"	Total/NA	Solid	3050B	
680-107159-17	FM0281G-CSD12"	Total/NA	Solid	3050B	
LCS 680-358466/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-358466/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 359069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-107159-1	FM0281A-CS6"	Total/NA	Solid	6010C	358466
680-107159-2	FM0281A-CS12"	Total/NA	Solid	6010C	358466
680-107159-3	FM0281A-CS18"	Total/NA	Solid	6010C	358466
680-107159-4	FM0281A-CS24"	Total/NA	Solid	6010C	358466
680-107159-5	FM0281A-CSD6"	Total/NA	Solid	6010C	358466
680-107159-6	FM0281D-CS6"	Total/NA	Solid	6010C	358466
680-107159-7	FM0281D-CS12"	Total/NA	Solid	6010C	358466
680-107159-8	FM0281D-CS18"	Total/NA	Solid	6010C	358466
680-107159-9	FM0281D-CS24"	Total/NA	Solid	6010C	358466
680-107159-10	FM0281C-CS6"	Total/NA	Solid	6010C	358466
680-107159-11	FM0281C-CS12"	Total/NA	Solid	6010C	358466
680-107159-12	FM0281C-CS18"	Total/NA	Solid	6010C	358466
680-107159-12 MS	FM0281C-CS18"	Total/NA	Solid	6010C	358466
680-107159-12 MSD	FM0281C-CS18"	Total/NA	Solid	6010C	358466
680-107159-13	FM0281G-CS6"	Total/NA	Solid	6010C	358466
680-107159-14	FM0281G-CS12"	Total/NA	Solid	6010C	358466
680-107159-15	FM0281G-CS18"	Total/NA	Solid	6010C	358466
680-107159-16	FM0281G-CS24"	Total/NA	Solid	6010C	358466
680-107159-17	FM0281G-CSD12"	Total/NA	Solid	6010C	358466
LCS 680-358466/2-A	Lab Control Sample	Total/NA	Solid	6010C	358466
MB 680-358466/1-A	Method Blank	Total/NA	Solid	6010C	358466

QC Association Summary

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

General Chemistry

Analysis Batch: 358398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-107159-1	FM0281A-CS6"	Total/NA	Solid	Moisture	
680-107159-2	FM0281A-CS12"	Total/NA	Solid	Moisture	
680-107159-3	FM0281A-CS18"	Total/NA	Solid	Moisture	
680-107159-4	FM0281A-CS24"	Total/NA	Solid	Moisture	
680-107159-5	FM0281A-CSD6"	Total/NA	Solid	Moisture	
680-107159-6	FM0281D-CS6"	Total/NA	Solid	Moisture	
680-107159-7	FM0281D-CS12"	Total/NA	Solid	Moisture	
680-107159-8	FM0281D-CS18"	Total/NA	Solid	Moisture	
680-107159-9	FM0281D-CS24"	Total/NA	Solid	Moisture	
680-107159-10	FM0281C-CS6"	Total/NA	Solid	Moisture	
680-107159-11	FM0281C-CS12"	Total/NA	Solid	Moisture	
680-107159-12	FM0281C-CS18"	Total/NA	Solid	Moisture	
680-107159-12 MS	FM0281C-CS18"	Total/NA	Solid	Moisture	
680-107159-12 MSD	FM0281C-CS18"	Total/NA	Solid	Moisture	
680-107159-13	FM0281G-CS6"	Total/NA	Solid	Moisture	
680-107159-14	FM0281G-CS12"	Total/NA	Solid	Moisture	
680-107159-15	FM0281G-CS18"	Total/NA	Solid	Moisture	
680-107159-16	FM0281G-CS24"	Total/NA	Solid	Moisture	
680-107159-17	FM0281G-CSD12"	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281A-CS6"

Lab Sample ID: 680-107159-1
Date Collected: 11/07/14 08:31
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.07 g	1 mL	358328	11/12/14 15:01	JMV	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		20	30.07 g	1 mL	359503	11/19/14 15:53	KMW	TAL SAV
	Instrument ID:	CMSK								
Total/NA	Prep	3050B			1.09 g	100 mL	358466	11/13/14 09:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.09 g	100 mL	359069	11/14/14 18:38	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Analysis	Moisture		1			358398	11/12/14 16:35	HML	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: FM0281A-CS12"

Lab Sample ID: 680-107159-2
Date Collected: 11/07/14 08:41
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.07 g	1 mL	358328	11/12/14 15:01	JMV	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		20	30.07 g	1 mL	359503	11/19/14 16:16	KMW	TAL SAV
	Instrument ID:	CMSK								
Total/NA	Prep	3050B			1.08 g	100 mL	358466	11/13/14 09:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.08 g	100 mL	359069	11/14/14 18:42	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Analysis	Moisture		1			358398	11/12/14 16:35	HML	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: FM0281A-CS18"

Lab Sample ID: 680-107159-3
Date Collected: 11/07/14 08:51
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 72.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.11 g	1 mL	358328	11/12/14 15:01	JMV	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.11 g	1 mL	359245	11/18/14 18:07	KMW	TAL SAV
	Instrument ID:	CMSY								
Total/NA	Prep	3050B			1.16 g	100 mL	358466	11/13/14 09:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.16 g	100 mL	359069	11/14/14 18:46	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Analysis	Moisture		1			358398	11/12/14 16:35	HML	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: FM0281A-CS24"

Lab Sample ID: 680-107159-4
Date Collected: 11/07/14 09:01
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			29.99 g	1 mL	358328	11/12/14 15:01	JMV	TAL SAV

Lab Chronicle

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281A-CS24"

Lab Sample ID: 680-107159-4
Date Collected: 11/07/14 09:01
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D_LL_PAH		1	29.99 g	1 mL	359245	11/18/14 18:29	KMW	TAL SAV
	Instrument ID: CMSY									
Total/NA	Prep	3050B			1.03 g	100 mL	358466	11/13/14 09:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.03 g	100 mL	359069	11/14/14 18:51	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			358398	11/12/14 16:35	HML	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: FM0281A-CSD6"

Lab Sample ID: 680-107159-5
Date Collected: 11/07/14 08:36
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.01 g	1 mL	358328	11/12/14 15:01	JMV	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		500	30.01 g	1 mL	359719	11/20/14 16:13	KMW	TAL SAV
	Instrument ID: CMSY									
Total/NA	Prep	3050B			1.09 g	100 mL	358466	11/13/14 09:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.09 g	100 mL	359069	11/14/14 18:55	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			358398	11/12/14 16:35	HML	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: FM0281D-CS6"

Lab Sample ID: 680-107159-6
Date Collected: 11/07/14 09:30
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.03 g	1 mL	358328	11/12/14 15:01	JMV	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		50	30.03 g	1 mL	359503	11/19/14 17:01	KMW	TAL SAV
	Instrument ID: CMSK									
Total/NA	Prep	3050B			1.03 g	100 mL	358466	11/13/14 09:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.03 g	100 mL	359069	11/14/14 18:59	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			358398	11/12/14 16:35	HML	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: FM0281D-CS12"

Lab Sample ID: 680-107159-7
Date Collected: 11/07/14 09:41
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.09 g	1 mL	358328	11/12/14 15:01	JMV	TAL SAV

Lab Chronicle

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281D-CS12"

Lab Sample ID: 680-107159-7
Date Collected: 11/07/14 09:41
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D_LL_PAH		10	30.09 g	1 mL	359245	11/18/14 19:36	KMW	TAL SAV
	Instrument ID: CMSY									
Total/NA	Prep	3050B			1.00 g	100 mL	358466	11/13/14 09:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.00 g	100 mL	359069	11/14/14 19:03	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			358398	11/12/14 16:35	HML	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: FM0281D-CS18"

Lab Sample ID: 680-107159-8
Date Collected: 11/07/14 09:50
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.07 g	1 mL	358328	11/12/14 15:01	JMV	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.07 g	1 mL	359245	11/18/14 19:58	KMW	TAL SAV
	Instrument ID: CMSY									
Total/NA	Prep	3050B			1.03 g	100 mL	358466	11/13/14 09:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.03 g	100 mL	359069	11/14/14 19:08	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			358398	11/12/14 16:35	HML	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: FM0281D-CS24"

Lab Sample ID: 680-107159-9
Date Collected: 11/07/14 09:59
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.15 g	1 mL	358328	11/12/14 15:01	JMV	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		1	30.15 g	1 mL	359245	11/18/14 20:20	KMW	TAL SAV
	Instrument ID: CMSY									
Total/NA	Prep	3050B			1.00 g	100 mL	358466	11/13/14 09:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.00 g	100 mL	359069	11/14/14 19:12	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			358398	11/12/14 16:35	HML	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: FM0281C-CS6"

Lab Sample ID: 680-107159-10
Date Collected: 11/07/14 10:30
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.00 g	1 mL	358328	11/12/14 15:01	JMV	TAL SAV

Lab Chronicle

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281C-CS6"

Lab Sample ID: 680-107159-10
Date Collected: 11/07/14 10:30
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D_LL_PAH		10	30.00 g	1 mL	359245	11/18/14 20:43	KMW	TAL SAV
	Instrument ID: CMSY									
Total/NA	Prep	3050B			1.10 g	100 mL	358466	11/13/14 09:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.10 g	100 mL	359069	11/14/14 19:16	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			358398	11/12/14 16:35	HML	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: FM0281C-CS12"

Lab Sample ID: 680-107159-11
Date Collected: 11/07/14 10:40
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			29.96 g	1 mL	358328	11/12/14 15:01	JMV	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	29.96 g	1 mL	359245	11/18/14 21:05	KMW	TAL SAV
	Instrument ID: CMSY									
Total/NA	Prep	3050B			1.02 g	100 mL	358466	11/13/14 09:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.02 g	100 mL	359069	11/14/14 19:29	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			358398	11/12/14 16:35	HML	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: FM0281C-CS18"

Lab Sample ID: 680-107159-12
Date Collected: 11/07/14 10:50
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.03 g	1 mL	358328	11/12/14 15:01	JMV	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.03 g	1 mL	359245	11/18/14 16:59	KMW	TAL SAV
	Instrument ID: CMSY									
Total/NA	Prep	3050B			1.01 g	100 mL	358466	11/13/14 09:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.01 g	100 mL	359069	11/14/14 18:08	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			358398	11/12/14 16:35	HML	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: FM0281G-CS6"

Lab Sample ID: 680-107159-13
Date Collected: 11/07/14 11:25
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.07 g	1 mL	358328	11/12/14 15:01	JMV	TAL SAV

Lab Chronicle

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281G-CS6"

Lab Sample ID: 680-107159-13
Date Collected: 11/07/14 11:25
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D_LL_PAH		10	30.07 g	1 mL	359245	11/18/14 21:27	KMW	TAL SAV
	Instrument ID: CMSY									
Total/NA	Prep	3050B			1.02 g	100 mL	358466	11/13/14 09:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.02 g	100 mL	359069	11/14/14 19:33	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			358398	11/12/14 16:35	HML	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: FM0281G-CS12"

Lab Sample ID: 680-107159-14
Date Collected: 11/07/14 11:35
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.03 g	1 mL	358328	11/12/14 15:01	JMV	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.03 g	1 mL	359245	11/18/14 21:49	KMW	TAL SAV
	Instrument ID: CMSY									
Total/NA	Prep	3050B			1.04 g	100 mL	358466	11/13/14 09:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.04 g	100 mL	359069	11/14/14 19:38	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			358398	11/12/14 16:35	HML	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: FM0281G-CS18"

Lab Sample ID: 680-107159-15
Date Collected: 11/07/14 11:45
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.07 g	1 mL	358328	11/12/14 15:01	JMV	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.07 g	1 mL	359245	11/18/14 22:11	KMW	TAL SAV
	Instrument ID: CMSY									
Total/NA	Prep	3050B			1.13 g	100 mL	358466	11/13/14 09:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.13 g	100 mL	359069	11/14/14 19:42	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			358398	11/12/14 16:35	HML	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: FM0281G-CS24"

Lab Sample ID: 680-107159-16
Date Collected: 11/07/14 11:55
Matrix: Solid
Date Received: 11/12/14 09:34
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.13 g	1 mL	358328	11/12/14 15:01	JMV	TAL SAV

Lab Chronicle

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Client Sample ID: FM0281G-CS24"

Lab Sample ID: 680-107159-16

Date Collected: 11/07/14 11:55
Date Received: 11/12/14 09:34

Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D_LL_PAH		1	30.13 g	1 mL	359245	11/18/14 22:34	KMW	TAL SAV
	Instrument ID:	CMSY								
Total/NA	Prep	3050B			1.08 g	100 mL	358466	11/13/14 09:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.08 g	100 mL	359069	11/14/14 19:46	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Analysis	Moisture		1			358398	11/12/14 16:35	HML	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: FM0281G-CSD12"

Lab Sample ID: 680-107159-17

Date Collected: 11/07/14 11:40
Date Received: 11/12/14 09:34

Matrix: Solid
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.07 g	1 mL	358328	11/12/14 15:01	JMV	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.07 g	1 mL	359245	11/18/14 22:57	KMW	TAL SAV
	Instrument ID:	CMSY								
Total/NA	Prep	3050B			1.03 g	100 mL	358466	11/13/14 09:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.03 g	100 mL	359069	11/14/14 19:50	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Analysis	Moisture		1			358398	11/12/14 16:35	HML	TAL SAV
	Instrument ID:	NOEQUIP								

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 78143

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.: 2014076-1006	PROJECT LOCATION (STATE): AL
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Russell Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX: 770-528-0167
CLIENT NAME: OTIE	CLIENT E-MAIL: rhenderson@otie.com	
CLIENT ADDRESS: 1220 Kennestone Cir. Ste. 106, Marietta, GA 30066		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ◯
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / PRESERVATIVE: L.L. PAH (Ice); Al, As, Fe, Pb (Ice)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	L.L. PAH	Al, As, Fe, Pb	REMARKS
11/7/14	0831	FM0281A-CS6"	Y					X	X	7 day TAT
	0841	FM0281A-CS12"	Y					X	X	
	0851	FM0281A-CS18"	Y					X	X	
	0901	FM0281A-CS24"	Y					X	X	
	0836	FM0281A-CSD6"	Y					X	X	
	0930	FM0281D-CS6"	Y					X	X	
	0941	FM0281D-CS12"	Y					X	X	
	0950	FM0281D-CS18"	Y					X	X	
	0959	FM0281D-CS24"	Y					X	X	
	1030	FM0281C-CS6"	Y					X	X	
	1040	FM0281C-CS12"	Y					X	X	
11/7/14	1050	FM0281C-CS18"	Y					X	X	MS/MSD

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	11/10/14	1200						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME		DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABOI
[signature]	11/12/14	0934	YES ◯ NO ◯		680-107159	

680-107159 Chain of Custody

2.2°C

TAL8240-680 (1008)

11/21/2014

Serial Number 85594

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

Same as page #1

PAGE 2 OF 2

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ☒

DATE DUE 7 days TAT

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	L.L. PAH	As, As, Fe, Pb								REMARKS
								Ice	Ice	PRESERVATIVE							
								NUMBER OF CONTAINERS SUBMITTED									
11/7/14	1125	FM0281G-CS6"	X					X	X								7 day TAT
	1135	FM0281G-CS12"	X					X	X								
	1145	FM0281G-CS18"	X					X	X								
	1155	FM0281G-CS24"	X					X	X								
11/7/14	1140	FM0281G-CSD12"	X					X	X								

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	11/10/14	1200						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	11/12/14	0934	YES ○ NO ○		680 107159	2.2°C

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107159-1
SDG Number: 680-107159-1

Login Number: 107159
List Number: 1
Creator: Banda, Christy S

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

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

TestAmerica Job ID: 680-107159-1
SDG: 680-107159-1

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	41450	06-30-15