Data Validation Checklist
Inorganic Analyses

Project:	35TH Avenue Superfund Site	Project No:	60430028; 1
Laboratory:	TestAmerica – Savannah, GA	Job ID.:	680-106803-1
Method:	SW-846 6010C (Aluminum, Arsenic, Iron, and Lead)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	10/27/2014 & 10/28/2015
Reviewer:	Karen M Trujillo, URS Group, Inc.	Date:	08/13/2015
Concurrence[1]:	Nicole Lancaster, URS Group, Inc.	Date:	08/27/2015

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: 77,000 mg/Kg • Arsenic: 0.68 mg/Kg • Iron: 55,000 mg/Kg • Lead: 400 mg/Kg The MDL for arsenic is less than the respective above-mentioned RSL in the following undiluted samples: • 680-106803-4 (CV0971VV-CS24"), [MDL is 0.71 mg/Kg] • 680-106803-16 (CV0971AP-GS12"), [MDL is 0.70 mg/Kg] • 680-106803-19 (CV0971AD-GS6"), [MDL is 0.72 mg/Kg] A data gap does not exist as arsenic was detected in the samples.	
8. Were method blank (MB) prepared at the appropriate frequency (one per 20 samples, batch, matrix, and level)?	✓				

[1] 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 analyte was not detected in the method blank. 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 per 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?	✓			• CV0971JJ-CSD6" (680-106803-6) is a field duplicate of sample CV0971JJ-CS6" (680-106803-5). • CV0971NN-CSD12" (680-106803-12) is a field duplicate of sample CV0971NN-CSD12" (680-106803-11).	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to **Attachment B** (Field Duplicate Evaluation)	J
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 o 7471A: • ICAL: Blank and five standards • ICV initially, and CCV every 10th sample and at the end of the analytical run o 7196A: • ICAL: Blank and minimum of five standards • ICV initially, and CCV every 10th sample (15th per Method) and at the end of the analytical run	✓			6010C: 11/04/2014. 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 o 7471A • ICV/CCV (Criteria: 80-120%R): ▪ If correlation coefficients <0.995, then J and UJ flag positive and non-detect results. ▪ If %R <65, then J- flag positive results and R-flag non-detects ▪ If 65-79%R, then J- flag positive results and UJ flag non-detects ▪ If 121-135%R, then J flag positive results ▪ If >135%R, then J+ flag positive results ▪ If >170%R, then R flag positive results • CRI (Method: Not required, Laboratory: 50-150%R, Project: 70-130%R): ▪ If CRI %R <50, then R flag results ≤ 2x RL and J flag positive results >2x RL ▪ If CRI %R 50-69%, then J- and UJ flag positive results <2x RL and ND, respectively ▪ If CRI %R >130% and ≤180%, then J+ flag positive results <2x RL ▪ If CRI %R >180%, then R flag positive result o 7196A: • ICV/CCV (Criteria: 90-110%R): ▪ If correlation coefficients <0.995, then J and UJ flag positive and non-detect results.	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
▪ If %R <65, then J- flag positive results and R-flag non-detects ▪ If 65-90%R, then J- flag positive results and UJ flag non-detects ▪ If 110-135%R, then J flag positive results ▪ If >135%R, then J+ flag positive results ▪ If >170%R, 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 o Aqueous: • If <50%R, then J- and R flag positive and ND results, respectively • If 50-LCL%R, J- and UJ flag positive and ND results, respectively • >UCL: J+ Flag positive results • >150%R: R Flag results	✓				
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?	✓			Batch 356607: 680-106803-2 (CV0971VV-CS12"), MS/MSD/PDS	
24. Is the MS and MSD parent sample a project-specific sample?	✓				
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)?	✓			680-106803-2 (CV0971VV-CS12")	
26. For all analytes with sample concentration < 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		✓		680-106803-2 (CV0971VV-CS12"): • Arsenic MS and MSD @38 and 63%R (Lab/Project: 75-125%R); PDS 88%R (Lab/Project: 80-120%R).	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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 o 7471A/7196: • If MS %R <30, then J- and R Flag positive and ND results, respectively • If MS and MSD %R 30-LCL, then J- flag positive and UJ flag non-detect results • If MS and MSD %R >UCL, then J+ flag positive results				• Lead MS and MSD @69 and 164%R (Lab/Project: 75-125%R); PDS 86%R (Lab/Project: 80-120%R). J-Flag arsenic and lead in sample CV0971VV-CS12" due to matrix interference.	
27. For all analytes with sample concentration < 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.		✓		680-106803-2 (CV0971VV-CS12"): Lead %RPD @32 (Lab/Project: <20%RPD). J-Flag lead in sample CV0971VV-CS12" due to matrix interference.	J
28. Was a serial dilution conducted for 6010C/EPA 200.7?	✓				
29. Is the serial dilution parent sample a project-specific sample?	✓			680-106803-2 (CV0971VV-CS12")	
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.	✓				
31. Was a laboratory duplicate analyzed?		✓			
32. Was the lab duplicate analysis conducted on a project-specific sample?			✓		

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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: 680-106803-1
Sdg Number: 680-106803-01

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-106803-1	CV0971VV-CS6"	Solid	10/27/2014 1445	10/31/2014 0934
680-106803-2	CV0971VV-CS12"	Solid	10/27/2014 1500	10/31/2014 0934
680-106803-2MS	CV0971VV-CS12"	Solid	10/27/2014 1500	10/31/2014 0934
680-106803-2MSD	CV0971VV-CS12"	Solid	10/27/2014 1500	10/31/2014 0934
680-106803-3	CV0971VV-CS18"	Solid	10/27/2014 1515	10/31/2014 0934
680-106803-4	CV0971VV-CS24"	Solid	10/27/2014 1530	10/31/2014 0934
680-106803-5	CV0971JJ-CS6"	Solid	10/28/2014 0840	10/31/2014 0934
680-106803-6	CV0971JJ-CSD6"	Solid	10/28/2014 0845	10/31/2014 0934
680-106803-7	CV0971JJ-CS12"	Solid	10/28/2014 0855	10/31/2014 0934
680-106803-8	CV0971JJ-CS18"	Solid	10/28/2014 0910	10/31/2014 0934
680-106803-9	CV0971JJ-CS24"	Solid	10/28/2014 0925	10/31/2014 0934
680-106803-10	CV0971NN-CS6"	Solid	10/28/2014 1015	10/31/2014 0934
680-106803-11	CV0971NN-CS12"	Solid	10/28/2014 1030	10/31/2014 0934
680-106803-12	CV0971NN-CSD12"	Solid	10/28/2014 1035	10/31/2014 0934
680-106803-13	CV0971NN-CS18"	Solid	10/28/2014 1045	10/31/2014 0934
680-106803-14	CV0971NN-CS24"	Solid	10/28/2014 1100	10/31/2014 0934
680-106803-15	CV0971AP-GS6"	Solid	10/28/2014 1120	10/31/2014 0934
680-106803-16	CV0971AP-GS12"	Solid	10/28/2014 1135	10/31/2014 0934
680-106803-17	CV0971AP-GS18"	Solid	10/28/2014 1150	10/31/2014 0934
680-106803-18	CV0971AP-GS24"	Solid	10/28/2014 1205	10/31/2014 0934
680-106803-19	CV0971AD-GS6"	Solid	10/28/2014 1250	10/31/2014 0934
680-106803-20	CV0971AD-GS12"	Solid	10/28/2014 1300	10/31/2014 0934

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment C

Analyte	CV0971JJ-CS6" 680-106803-5		RL	CV0971JJ-CSD6" 680-106803-6		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Aluminum	14000		21	15000		21	mg/kg	105	**7**	NA	NA	None, RPD ≤ 50%
Arsenic	31		2.1	35		2.1	mg/kg	10.5	**12**	NA	NA	None, RPD ≤ 50%
Iron	49000		21	55000		21	mg/kg	105	**12**	NA	NA	None, RPD ≤ 50%
Lead	47		1.1	45		1.1	mg/kg	5.5	**4**	NA	NA	None, 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 results for detected analytes only.

Evaluation of Field Duplicate Results

Attachment C

Analyte	CV0971NN-CS12" 680-106803-11		RL	CV0971NN-CSD12" 680-106803-12		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Aluminum	15000		22	14000		22	mg/kg	110	**7**	NA	NA	None, RPD ≤ 50%
Arsenic	20		2.2	25		2.2	mg/kg	11	**22**	NA	NA	None, RPD ≤ 50%
Iron	48000		22	43000		22	mg/kg	110	**11**	NA	NA	None, RPD ≤ 50%
Lead	120		1.1	220		1.1	mg/kg	5.5	**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 results for detected analytes only.

ATTACHMENT C

CASE NARRATIVE

CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-106803-1

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.

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

RECEIPT

The samples were received on 10/31/2014 9:34 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.6º C, 4.2º C and 4.4º C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH

Samples CV0971VV-CS6" (680-106803-1), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24" (680-106803-4), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971JJ-CS24" (680-106803-9), CV0971NN-CS6" (680-106803-10), CV0971NN-CS12" (680-106803-11), CV0971NN-CSD12" (680-106803-12), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971AP-GS6" (680-106803-15), CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AD-GS6" (680-106803-19) and CV0971AD-GS12" (680-106803-20) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D.

Method(s) 8270D_LL_PAH: The following sample(s) was diluted due to the nature of the sample matrix: CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AP-GS6" (680-106803-15), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971NN-CS12" (680-106803-11), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971NN-CS6" (680-106803-10), CV0971NN-CSD12" (680-106803-12), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24" (680-106803-4), CV0971VV-CS6" (680-106803-1), CV0971VV-CS12" (680-106803-2 MS), CV0971VV-CS12" (680-106803-2 MSD). 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: Analyst accidentally double spiked the following samples with internal standard. Data has been corrected and high recovery flags have been removed. Data has been qualified and reported: (LCS 680-356398/22-A), (MB 680-356398/21-A), CV0971AD-GS12" (680-106803-20), CV0971AD-GS6" (680-106803-19), CV0971JJ-CS24" (680-106803-9), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6).

Method(s) 8270D_LL_PAH: Manual integration was performed on the following sample(s): CV0971AD-GS12" (680-106803-20), CV0971AD-GS6" (680-106803-19), CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AP-GS6" (680-106803-15), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971JJ-CS24" (680-106803-9), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6), CV0971NN-CS12" (680-106803-11), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971NN-CS6" (680-106803-10), CV0971NN-CSD12" (680-106803-12), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24" (680-106803-4), CV0971VV-CS6" (680-106803-1).

Method(s) 8270D_LL_PAH: The continuing calibration verification (CCV) analyzed in batch 356621 was outside the method criteria for the following analyte(s): o-terphenyl and Pyrene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

METALS (ICP)

Samples CV0971VV-CS6" (680-106803-1), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24" (680-106803-4), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971JJ-CS24" (680-106803-9), CV0971NN-CS6" (680-106803-10), CV0971NN-CS12" (680-106803-11), CV0971NN-CSD12" (680-106803-12), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971AP-GS6" (680-106803-15), CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AD-GS6" (680-106803-19) and CV0971AD-GS12" (680-106803-20) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C.

One or more metals analytes are outside QC precision and accuracy criteria for the MS and MSD of sample CV0971VV-CS12" (680-106803-2) in batch 680-357015. Refer to the QC report for details.

PERCENT SOLIDS/MOISTURE

Samples CV0971VV-CS6" (680-106803-1), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24"

(680-106803-4), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971JJ-CS24" (680-106803-9), CV0971NN-CS6" (680-106803-10), CV0971NN-CS12" (680-106803-11), CV0971NN-CSD12" (680-106803-12), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971AP-GS6" (680-106803-15), CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AD-GS6" (680-106803-19) and CV0971AD-GS12" (680-106803-20) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971VV-CS6"
Lab Sample ID: 680-106803-1
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/27/2014 14:45
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 86.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	17000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	34	2.2	0.64	mg/Kg			1	6010C
7439-89-6	Iron	39000	22	7.6	mg/Kg			1	6010C
7439-92-1	Lead	190	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: CV0971VV-CS12"

Lab Sample ID: 680-106803-2

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/27/2014 15:00

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 85.4

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	37	2.3	0.66	mg/Kg		J	1	6010C
7439-89-6	Iron	46000	23	7.9	mg/Kg			1	6010C
7439-92-1	Lead	110	1.1	0.60	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: CV0971VV-CS18"
Lab Sample ID: 680-106803-3
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/27/2014 15:15
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 85.5

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	33	2.3	0.67	mg/Kg			1	6010C
7439-89-6	Iron	38000	23	8.0	mg/Kg			1	6010C
7439-92-1	Lead	130	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: CV0971VV-CS24"
Lab Sample ID: 680-106803-4
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/27/2014 15:30
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 82.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	14000	24	12	mg/Kg			1	6010C
7440-38-2	Arsenic	25	2.4	0.71	mg/Kg			1	6010C
7439-89-6	Iron	46000	24	8.4	mg/Kg			1	6010C
7439-92-1	Lead	96	1.2	0.64	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: CV0971JJ-CS6"
Lab Sample ID: 680-106803-5
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/28/2014 08:40
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 89.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	14000	21	11	mg/Kg			1	6010C
7440-38-2	Arsenic	31	2.1	0.63	mg/Kg			1	6010C
7439-89-6	Iron	49000	21	7.5	mg/Kg			1	6010C
7439-92-1	Lead	47	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: CV0971JJ-CSD6"
Lab Sample ID: 680-106803-6
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/28/2014 08:45
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 85.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	15000	21	11	mg/Kg			1	6010C
7440-38-2	Arsenic	35	2.1	0.63	mg/Kg			1	6010C
7439-89-6	Iron	55000	21	7.5	mg/Kg			1	6010C
7439-92-1	Lead	45	1.1	0.56	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: CV0971JJ-CS12"
Lab Sample ID: 680-106803-7
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/28/2014 08:55
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 87.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	12000	20	10	mg/Kg			1	6010C
7440-38-2	Arsenic	26	2.0	0.60	mg/Kg			1	6010C
7439-89-6	Iron	41000	20	7.1	mg/Kg			1	6010C
7439-92-1	Lead	40	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: CV0971JJ-CS18"
Lab Sample ID: 680-106803-8
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/28/2014 09:10
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 86.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	13000	20	9.8	mg/Kg			1	6010C
7440-38-2	Arsenic	31	2.0	0.58	mg/Kg			1	6010C
7439-89-6	Iron	35000	20	6.9	mg/Kg			1	6010C
7439-92-1	Lead	54	0.98	0.52	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: CV0971JJ-CS24"

Lab Sample ID: 680-106803-9

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/28/2014 09:25

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 84.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	12000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	23	2.2	0.66	mg/Kg			1	6010C
7439-89-6	Iron	33000	22	7.8	mg/Kg			1	6010C
7439-92-1	Lead	44	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: CV0971NN-CS6"
Lab Sample ID: 680-106803-10
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/28/2014 10:15
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 86.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	15000	21	10	mg/Kg			1	6010C
7440-38-2	Arsenic	26	2.1	0.61	mg/Kg			1	6010C
7439-89-6	Iron	40000	21	7.2	mg/Kg			1	6010C
7439-92-1	Lead	180	1.0	0.55	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: CV0971NN-CS12"

Lab Sample ID: 680-106803-11

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/28/2014 10:30

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 85.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	15000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	20	2.2	0.64	mg/Kg			1	6010C
7439-89-6	Iron	48000	22	7.5	mg/Kg			1	6010C
7439-92-1	Lead	120	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: CV0971NN-CSD12"
Lab Sample ID: 680-106803-12
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/28/2014 10:35
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 85.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	14000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	25	2.2	0.65	mg/Kg			1	6010C
7439-89-6	Iron	43000	22	7.7	mg/Kg			1	6010C
7439-92-1	Lead	220	1.1	0.58	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: CV0971NN-CS18"
Lab Sample ID: 680-106803-13
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/28/2014 10:45
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 84.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	22000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	13	2.2	0.64	mg/Kg			1	6010C
7439-89-6	Iron	39000	22	7.6	mg/Kg			1	6010C
7439-92-1	Lead	37	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: CV0971NN-CS24"
Lab Sample ID: 680-106803-14
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/28/2014 11:00
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 85.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	19000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	20	2.2	0.65	mg/Kg			1	6010C
7439-89-6	Iron	45000	22	7.7	mg/Kg			1	6010C
7439-92-1	Lead	55	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: CV0971AP-GS6"
Lab Sample ID: 680-106803-15
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/28/2014 11:20
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 84.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	19000	23	12	mg/Kg			1	6010C
7440-38-2	Arsenic	32	2.3	0.68	mg/Kg			1	6010C
7439-89-6	Iron	52000	23	8.1	mg/Kg			1	6010C
7439-92-1	Lead	580	1.2	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: CV0971AP-GS12"
Lab Sample ID: 680-106803-16
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/28/2014 11:35
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 80.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	17000	24	12	mg/Kg			1	6010C
7440-38-2	Arsenic	36	2.4	0.70	mg/Kg			1	6010C
7439-89-6	Iron	44000	24	8.3	mg/Kg			1	6010C
7439-92-1	Lead	380	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: CV0971AP-GS18"
Lab Sample ID: 680-106803-17
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/28/2014 11:50
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 85.1

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	15	2.1	0.61	mg/Kg			1	6010C
7439-89-6	Iron	31000	21	7.3	mg/Kg			1	6010C
7439-92-1	Lead	48	1.0	0.55	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: CV0971AP-GS24"
Lab Sample ID: 680-106803-18
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/28/2014 12:05
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 84.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	17000	20	10	mg/Kg			1	6010C
7440-38-2	Arsenic	24	2.0	0.59	mg/Kg			1	6010C
7439-89-6	Iron	60000	20	7.0	mg/Kg			1	6010C
7439-92-1	Lead	53	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: CV0971AD-GS6"
Lab Sample ID: 680-106803-19
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/28/2014 12:50
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 81.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	18000	24	12	mg/Kg			1	6010C
7440-38-2	Arsenic	47	2.4	0.72	mg/Kg			1	6010C
7439-89-6	Iron	47000	24	8.5	mg/Kg			1	6010C
7439-92-1	Lead	43	1.2	0.64	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: CV0971AD-GS12"
Lab Sample ID: 680-106803-20
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/28/2014 13:00
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 81.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	16000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	45	2.2	0.65	mg/Kg			1	6010C
7439-89-6	Iron	46000	22	7.7	mg/Kg			1	6010C
7439-92-1	Lead	32	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)

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	60430028; 1
Laboratory:	TestAmerica – Savannah, GA	Job ID.:	680-106803-1
Method:	SW-846 8270D Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	10/27/2014 & 10/28/2015
Reviewer:	Karen M Trujillo, URS Group, Inc.	Date:	08/26/2015
Concurrence[1]:	Nicole Lancaster, URS Group, Inc.	Date:	08/27/2015

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.	✓				
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 per 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?			✓		
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.	

[1] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
14. Is a field duplicate associated with this Job?	✓			• CV0971JJ-CSD6" (680-106803-6) is a field duplicate of sample CV0971JJ-CS6" (680-106803-5). • CV0971NN-CSD12" (680-106803-12) is a field duplicate of sample CV0971NN-CSD12" (680-106803-11).	
15. Was precision deemed acceptable as defined by the project plans?	✓			Refer to **Attachment B** (Field Duplicate Evaluation)	
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 • Initial Calibration: 10/22/2014 • ICV: 10/22/2014 @ 16:40 • CCV: 11/03/2014 @ 10:32	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: $\leq$20 mean %RSD ($\leq$50% for poor performers), OR r$\geq$0.995, OR $r^2 \geq 0.99$, and RRF $\geq$0.050 ($\geq$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: $\leq \pm$30%D; CCV Criteria: $\leq \pm$20%D ($\leq$50% for poor performers) and RF $\geq$0.050 ($\geq$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		✓		CCV of 11/03/2014 @ 10:32 (CCVIS 356621/2), instrument CMSK. Pyrene @ -20.7%D (Lab: $\leq$20, Project: $\leq$20). Negative bias. J and UJ-Flag all positive and non-detect pyrene sample results (respectively), as all samples are associated with this CCV.	J/UJ
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J flag positive results when %R >Upper Control Limit (UCL) and J/R flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J flag positive results and UJ flag non-detects			✓	LCS only	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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 356607: 680-106803-2 (CV0971VV-CS12"), 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	✓				
26. For all analytes with native sample concentrations < 4 x spiking level, were laboratory criteria met for precision during the MS and MSD analyses? *Only QC results for project samples that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J flag positive result and UJ flag non-detect result	✓				
27. Were surrogate recoveries within lab/project specifications? • If %R 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 the diluted analysis of samples 680-106803-1 through -4, - 7, -8, and -10 through -18. Qualification of sample results is not warranted, as the surrogate compound was diluted out of the samples.	
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		✓		The IS area counts were within lab/project specifications. However, according to the case narrative (**Attachment C**), samples listed below were accidentally double spiked the internal standards. • CV0971JJ-CS6" (680-106803-5)	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
• 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.				• CV0971JJ-CSD6" (680-106803-6) • CV0971JJ-CS24" (680-106803-9) • CV0971AD-GS6" (680-106803-19) • CV0971AD-GS12" (680-106803-20) Qualification of data is not warranted, as the increase in internal standards was accounted for by the laboratory during the reporting of the sample results.	
29. Were lab comments included in report?	✓			Refer to **Attachment C** (Case Narrative)	

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

DV Flag Definitions:

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
R The sample results are unusable. The analyte may or may not be present in the sample.
U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A

SAMPLE SUMMARY

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106803-1
Sdg Number: 680-106803-01

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-106803-1	CV0971VV-CS6"	Solid	10/27/2014 1445	10/31/2014 0934
680-106803-2	CV0971VV-CS12"	Solid	10/27/2014 1500	10/31/2014 0934
680-106803-2MS	CV0971VV-CS12"	Solid	10/27/2014 1500	10/31/2014 0934
680-106803-2MSD	CV0971VV-CS12"	Solid	10/27/2014 1500	10/31/2014 0934
680-106803-3	CV0971VV-CS18"	Solid	10/27/2014 1515	10/31/2014 0934
680-106803-4	CV0971VV-CS24"	Solid	10/27/2014 1530	10/31/2014 0934
680-106803-5	CV0971JJ-CS6"	Solid	10/28/2014 0840	10/31/2014 0934
680-106803-6	CV0971JJ-CSD6"	Solid	10/28/2014 0845	10/31/2014 0934
680-106803-7	CV0971JJ-CS12"	Solid	10/28/2014 0855	10/31/2014 0934
680-106803-8	CV0971JJ-CS18"	Solid	10/28/2014 0910	10/31/2014 0934
680-106803-9	CV0971JJ-CS24"	Solid	10/28/2014 0925	10/31/2014 0934
680-106803-10	CV0971NN-CS6"	Solid	10/28/2014 1015	10/31/2014 0934
680-106803-11	CV0971NN-CS12"	Solid	10/28/2014 1030	10/31/2014 0934
680-106803-12	CV0971NN-CSD12"	Solid	10/28/2014 1035	10/31/2014 0934
680-106803-13	CV0971NN-CS18"	Solid	10/28/2014 1045	10/31/2014 0934
680-106803-14	CV0971NN-CS24"	Solid	10/28/2014 1100	10/31/2014 0934
680-106803-15	CV0971AP-GS6"	Solid	10/28/2014 1120	10/31/2014 0934
680-106803-16	CV0971AP-GS12"	Solid	10/28/2014 1135	10/31/2014 0934
680-106803-17	CV0971AP-GS18"	Solid	10/28/2014 1150	10/31/2014 0934
680-106803-18	CV0971AP-GS24"	Solid	10/28/2014 1205	10/31/2014 0934
680-106803-19	CV0971AD-GS6"	Solid	10/28/2014 1250	10/31/2014 0934
680-106803-20	CV0971AD-GS12"	Solid	10/28/2014 1300	10/31/2014 0934

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0971JJ-CS6" 680-106803-5		RL	CV0971JJ-CSD6" 680-106803-6		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
1-Methylnaphthalene	6.4	J	7.5	6.0	J	7.8	µg/kg	38.25	NA	0.4	15.3	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	7.7		7.5	8.4		7.8	µg/kg	38.25	NA	0.7	15.3	None, absolute difference ≤ 2x Avg RL
Anthracene	4.2	J	7.5	6.5	J	7.8	µg/kg	38.25	NA	2.3	15.3	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	35		7.5	39		7.8	µg/kg	38.25	NA	4	15.3	None, absolute difference ≤ 2x Avg RL
Benzo(a)pyrene	38		7.5	43		7.8	µg/kg	38.25	NA	5	15.3	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	64		7.5	68		7.8	µg/kg	38.25	6	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	16		7.5	19		7.8	µg/kg	38.25	NA	3	15.3	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	27		7.5	27		7.8	µg/kg	38.25	NA	0	15.3	None, absolute difference ≤ 2x Avg RL
Chrysene	40		7.5	43		7.8	µg/kg	38.25	7	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	5.2	J	7.5	4.8	J	7.8	µg/kg	38.25	NA	0.4	15.3	None, absolute difference ≤ 2x Avg RL
Fluoranthene	53		7.5	61		7.8	µg/kg	38.25	14	NA	NA	None, RPD ≤ 50%
Indeno(1,2,3-cd)pyrene	13		7.5	15		7.8	µg/kg	38.25	NA	2	15.3	None, absolute difference ≤ 2x Avg RL
Naphthalene	5.9	J	7.5	5.1		7.8	µg/kg	38.25	NA	0.8	15.3	None, absolute difference ≤ 2x Avg RL
Phenanthrene	29		7.5	35		7.8	µg/kg	38.25	NA	6	15.3	None, absolute difference ≤ 2x Avg RL
Pyrene	49		7.5	53		7.8	µg/kg	38.25	8	NA	NA	None, RPD ≤ 50%

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

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

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

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0971NN-CS12" 680-106803-11		RL	CV0971NN-CSD12" 680-106803-12		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Benzo(a)anthracene	100		79	89		78	µg/kg	392.5	NA	11	157	None, absolute difference ≤ 2x Avg RL
Benzo(a)pyrene	110		79	100		78	µg/kg	392.5	NA	10	157	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	180		79	180		78	µg/kg	392.5	NA	0	157	None, absolute difference ≤ 2x Avg RL
Benzo(g,h,i)perylene	46	J	79	45	J	78	µg/kg	392.5	NA	1	157	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	75	J	79	58	J	78	µg/kg	392.5	NA	17	157	None, absolute difference ≤ 2x Avg RL
Chrysene	150		79	130		78	µg/kg	392.5	NA	20	157	None, absolute difference ≤ 2x Avg RL
Fluoranthene	170		79	150		78	µg/kg	392.5	NA	20	157	None, absolute difference ≤ 2x Avg RL
Phenanthrene	110		79	83		78	µg/kg	392.5	NA	27	157	None, absolute difference ≤ 2x Avg RL
Pyrene	160		79	140		78	µg/kg	392.5	NA	20	157	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: 680-106803-1

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.

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

RECEIPT

The samples were received on 10/31/2014 9:34 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.6º C, 4.2º C and 4.4º C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH

Samples CV0971VV-CS6" (680-106803-1), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24" (680-106803-4), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971JJ-CS24" (680-106803-9), CV0971NN-CS6" (680-106803-10), CV0971NN-CS12" (680-106803-11), CV0971NN-CSD12" (680-106803-12), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971AP-GS6" (680-106803-15), CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AD-GS6" (680-106803-19) and CV0971AD-GS12" (680-106803-20) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D.

Method(s) 8270D_LL_PAH: The following sample(s) was diluted due to the nature of the sample matrix: CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AP-GS6" (680-106803-15), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971NN-CS12" (680-106803-11), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971NN-CS6" (680-106803-10), CV0971NN-CSD12" (680-106803-12), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24" (680-106803-4), CV0971VV-CS6" (680-106803-1), CV0971VV-CS12" (680-106803-2 MS), CV0971VV-CS12" (680-106803-2 MSD). 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: Analyst accidentally double spiked the following samples with internal standard. Data has been corrected and high recovery flags have been removed. Data has been qualified and reported: (LCS 680-356398/22-A), (MB 680-356398/21-A), CV0971AD-GS12" (680-106803-20), CV0971AD-GS6" (680-106803-19), CV0971JJ-CS24" (680-106803-9), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6).

Method(s) 8270D_LL_PAH: Manual integration was performed on the following sample(s): CV0971AD-GS12" (680-106803-20), CV0971AD-GS6" (680-106803-19), CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AP-GS6" (680-106803-15), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971JJ-CS24" (680-106803-9), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6), CV0971NN-CS12" (680-106803-11), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971NN-CS6" (680-106803-10), CV0971NN-CSD12" (680-106803-12), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24" (680-106803-4), CV0971VV-CS6" (680-106803-1).

Method(s) 8270D_LL_PAH: The continuing calibration verification (CCV) analyzed in batch 356621 was outside the method criteria for the following analyte(s): o-terphenyl and Pyrene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

METALS (ICP)

Samples CV0971VV-CS6" (680-106803-1), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24" (680-106803-4), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971JJ-CS24" (680-106803-9), CV0971NN-CS6" (680-106803-10), CV0971NN-CS12" (680-106803-11), CV0971NN-CSD12" (680-106803-12), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971AP-GS6" (680-106803-15), CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AD-GS6" (680-106803-19) and CV0971AD-GS12" (680-106803-20) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C.

One or more metals analytes are outside QC precision and accuracy criteria for the MS and MSD of sample CV0971VV-CS12" (680-106803-2) in batch 680-357015. Refer to the QC report for details.

PERCENT SOLIDS/MOISTURE

Samples CV0971VV-CS6" (680-106803-1), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24"

(680-106803-4), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971JJ-CS24" (680-106803-9), CV0971NN-CS6" (680-106803-10), CV0971NN-CS12" (680-106803-11), CV0971NN-CSD12" (680-106803-12), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971AP-GS6" (680-106803-15), CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AD-GS6" (680-106803-19) and CV0971AD-GS12" (680-106803-20) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971VV-CS6" | Lab Sample ID: 680-106803-1

Matrix: Solid | Lab File ID: 1KK0310.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/27/2014 14:45

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.05(g) | Date Analyzed: 11/03/2014 13:46

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

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

% Moisture: 13.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | 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	43	J	77	38
56-55-3	Benzo[a]anthracene	310		77	38
50-32-8	Benzo[a]pyrene	360		77	14
205-99-2	Benzo[b]fluoranthene	540		77	38
191-24-2	Benzo[g,h,i]perylene	170		77	38
207-08-9	Benzo[k]fluoranthene	180		77	23
218-01-9	Chrysene	390		77	38
53-70-3	Dibenz(a,h)anthracene	50	J	77	38
206-44-0	Fluoranthene	540		77	38
86-73-7	Fluorene	77	U	77	38
193-39-5	Indeno[1,2,3-cd]pyrene	160		77	38
90-12-0	1-Methylnaphthalene	39	J	77	36
91-57-6	2-Methylnaphthalene	40	J	77	38
91-20-3	Naphthalene	77	U	77	38
85-01-8	Phenanthrene	260		77	28
129-00-0	Pyrene	510	J	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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971VV-CS12" | Lab Sample ID: 680-106803-2

Matrix: Solid | Lab File ID: 1KK0309.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/27/2014 15:00

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.02(g) | Date Analyzed: 11/03/2014 13:23

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

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

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

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	78	U	78	39
208-96-8	Acenaphthylene	78	U	78	39
120-12-7	Anthracene	78	U	78	39
56-55-3	Benzo[a]anthracene	110		78	39
50-32-8	Benzo[a]pyrene	120		78	14
205-99-2	Benzo[b]fluoranthene	190		78	39
191-24-2	Benzo[g,h,i]perylene	75	J	78	39
207-08-9	Benzo[k]fluoranthene	67	J	78	23
218-01-9	Chrysene	150		78	39
53-70-3	Dibenz(a,h)anthracene	78	U	78	39
206-44-0	Fluoranthene	210		78	39
86-73-7	Fluorene	78	U	78	39
193-39-5	Indeno[1,2,3-cd]pyrene	64	J	78	39
90-12-0	1-Methylnaphthalene	38	J	78	36
91-57-6	2-Methylnaphthalene	78	U	78	39
91-20-3	Naphthalene	78	U	78	39
85-01-8	Phenanthrene	130		78	28
129-00-0	Pyrene	170	J	78	39

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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971VV-CS18" | Lab Sample ID: 680-106803-3

Matrix: Solid | Lab File ID: 1KK0311.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/27/2014 15:15

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.05(g) | Date Analyzed: 11/03/2014 14:09

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

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

% Moisture: 14.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	78	U	78	39
208-96-8	Acenaphthylene	78	U	78	39
120-12-7	Anthracene	78	U	78	39
56-55-3	Benzo[a]anthracene	150		78	39
50-32-8	Benzo[a]pyrene	140		78	14
205-99-2	Benzo[b]fluoranthene	240		78	39
191-24-2	Benzo[g,h,i]perylene	78		78	39
207-08-9	Benzo[k]fluoranthene	78		78	23
218-01-9	Chrysene	210		78	39
53-70-3	Dibenz(a,h)anthracene	78	U	78	39
206-44-0	Fluoranthene	250		78	39
86-73-7	Fluorene	78	U	78	39
193-39-5	Indeno[1,2,3-cd]pyrene	65	J	78	39
90-12-0	1-Methylnaphthalene	46	J	78	36
91-57-6	2-Methylnaphthalene	45	J	78	39
91-20-3	Naphthalene	78	U	78	39
85-01-8	Phenanthrene	170		78	28
129-00-0	Pyrene	220	J	78	39

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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971VV-CS24" | Lab Sample ID: 680-106803-4

Matrix: Solid | Lab File ID: 1KK0312.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/27/2014 15:30

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.02(g) | Date Analyzed: 11/03/2014 14:31

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

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

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

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	81	U	81	40
208-96-8	Acenaphthylene	81	U	81	40
120-12-7	Anthracene	81	U	81	40
56-55-3	Benzo[a]anthracene	210		81	40
50-32-8	Benzo[a]pyrene	230		81	15
205-99-2	Benzo[b]fluoranthene	410		81	40
191-24-2	Benzo[g,h,i]perylene	110		81	40
207-08-9	Benzo[k]fluoranthene	150		81	24
218-01-9	Chrysene	310		81	40
53-70-3	Dibenz(a,h)anthracene	44	J	81	40
206-44-0	Fluoranthene	320		81	40
86-73-7	Fluorene	81	U	81	40
193-39-5	Indeno[1,2,3-cd]pyrene	100		81	40
90-12-0	1-Methylnaphthalene	81	U	81	38
91-57-6	2-Methylnaphthalene	81	U	81	40
91-20-3	Naphthalene	81	U	81	40
85-01-8	Phenanthrene	120		81	29
129-00-0	Pyrene	290	J	81	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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971JJ-CS6" | Lab Sample ID: 680-106803-5

Matrix: Solid | Lab File ID: 1KK0313.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 08:40

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.02(g) | Date Analyzed: 11/03/2014 14:54

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

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

% Moisture: 11.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	7.5	U	7.5	3.7
208-96-8	Acenaphthylene	7.5	U	7.5	3.7
120-12-7	Anthracene	4.2	J	7.5	3.7
56-55-3	Benzo[a]anthracene	35		7.5	3.7
50-32-8	Benzo[a]pyrene	38		7.5	1.3
205-99-2	Benzo[b]fluoranthene	64		7.5	3.7
191-24-2	Benzo[g,h,i]perylene	16		7.5	3.7
207-08-9	Benzo[k]fluoranthene	27		7.5	2.2
218-01-9	Chrysene	40		7.5	3.7
53-70-3	Dibenz(a,h)anthracene	5.2	J	7.5	3.7
206-44-0	Fluoranthene	53		7.5	3.7
86-73-7	Fluorene	7.5	U	7.5	3.7
193-39-5	Indeno[1,2,3-cd]pyrene	13		7.5	3.7
90-12-0	1-Methylnaphthalene	6.4	J	7.5	3.5
91-57-6	2-Methylnaphthalene	7.7		7.5	3.7
91-20-3	Naphthalene	5.9	J	7.5	3.7
85-01-8	Phenanthrene	29		7.5	2.7
129-00-0	Pyrene	49	J	7.5	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	54		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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971JJ-CSD6" | Lab Sample ID: 680-106803-6

Matrix: Solid | Lab File ID: 1KK0314.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 08:45

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.05(g) | Date Analyzed: 11/03/2014 15:17

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

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

% Moisture: 14.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	7.8	U	7.8	3.9
208-96-8	Acenaphthylene	7.8	U	7.8	3.9
120-12-7	Anthracene	6.5	J	7.8	3.9
56-55-3	Benzo[a]anthracene	39		7.8	3.9
50-32-8	Benzo[a]pyrene	43		7.8	1.4
205-99-2	Benzo[b]fluoranthene	68		7.8	3.9
191-24-2	Benzo[g,h,i]perylene	19		7.8	3.9
207-08-9	Benzo[k]fluoranthene	27		7.8	2.3
218-01-9	Chrysene	43		7.8	3.9
53-70-3	Dibenz(a,h)anthracene	4.8	J	7.8	3.9
206-44-0	Fluoranthene	61		7.8	3.9
86-73-7	Fluorene	7.8	U	7.8	3.9
193-39-5	Indeno[1,2,3-cd]pyrene	15		7.8	3.9
90-12-0	1-Methylnaphthalene	6.0	J	7.8	3.6
91-57-6	2-Methylnaphthalene	8.4		7.8	3.9
91-20-3	Naphthalene	5.1	J	7.8	3.9
85-01-8	Phenanthrene	35		7.8	2.8
129-00-0	Pyrene	53	J	7.8	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	54		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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971JJ-CS12" | Lab Sample ID: 680-106803-7

Matrix: Solid | Lab File ID: 1KK0315.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 08:55

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.02(g) | Date Analyzed: 11/03/2014 15:40

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

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

% Moisture: 12.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | 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	77	U	77	38
50-32-8	Benzo[a]pyrene	26	J	77	14
205-99-2	Benzo[b]fluoranthene	42	J	77	38
191-24-2	Benzo[g,h,i]perylene	77	U	77	38
207-08-9	Benzo[k]fluoranthene	77	U	77	23
218-01-9	Chrysene	77	U	77	38
53-70-3	Dibenz(a,h)anthracene	77	U	77	38
206-44-0	Fluoranthene	77	U	77	38
86-73-7	Fluorene	77	U	77	38
193-39-5	Indeno[1,2,3-cd]pyrene	77	U	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	77	U	77	28
129-00-0	Pyrene	77	~~U~~ UJ	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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971JJ-CS18" | Lab Sample ID: 680-106803-8

Matrix: Solid | Lab File ID: 1KK0316.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 09:10

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.01(g) | Date Analyzed: 11/03/2014 16:03

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

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

% Moisture: 13.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | 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	60	J	77	38
50-32-8	Benzo[a]pyrene	66	J	77	14
205-99-2	Benzo[b]fluoranthene	110		77	38
191-24-2	Benzo[g,h,i]perylene	77	U	77	38
207-08-9	Benzo[k]fluoranthene	41	J	77	23
218-01-9	Chrysene	88		77	38
53-70-3	Dibenz(a,h)anthracene	77	U	77	38
206-44-0	Fluoranthene	98		77	38
86-73-7	Fluorene	77	U	77	38
193-39-5	Indeno[1,2,3-cd]pyrene	77	U	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	63	J	77	28
129-00-0	Pyrene	90	J	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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971JJ-CS24" | Lab Sample ID: 680-106803-9

Matrix: Solid | Lab File ID: 1KK0317.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 09:25

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.01(g) | Date Analyzed: 11/03/2014 16:25

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

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

% Moisture: 15.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | 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	15		7.9	3.9
50-32-8	Benzo[a]pyrene	17		7.9	1.4
205-99-2	Benzo[b]fluoranthene	31		7.9	3.9
191-24-2	Benzo[g,h,i]perylene	8.1		7.9	3.9
207-08-9	Benzo[k]fluoranthene	9.2		7.9	2.4
218-01-9	Chrysene	23		7.9	3.9
53-70-3	Dibenz(a,h)anthracene	7.9	U	7.9	3.9
206-44-0	Fluoranthene	21		7.9	3.9
86-73-7	Fluorene	7.9	U	7.9	3.9
193-39-5	Indeno[1,2,3-cd]pyrene	5.1	J	7.9	3.9
90-12-0	1-Methylnaphthalene	5.1	J	7.9	3.7
91-57-6	2-Methylnaphthalene	7.0	J	7.9	3.9
91-20-3	Naphthalene	7.9	U	7.9	3.9
85-01-8	Phenanthrene	13		7.9	2.8
129-00-0	Pyrene	20	J	7.9	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	55		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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971NN-CS6" | Lab Sample ID: 680-106803-10

Matrix: Solid | Lab File ID: 1KK0318.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 10:15

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.02(g) | Date Analyzed: 11/03/2014 16:48

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

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

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

Analysis Batch No.: 356621 | 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	78	U	78	38
56-55-3	Benzo[a]anthracene	190		78	38
50-32-8	Benzo[a]pyrene	230		78	14
205-99-2	Benzo[b]fluoranthene	390		78	38
191-24-2	Benzo[g,h,i]perylene	100		78	38
207-08-9	Benzo[k]fluoranthene	130		78	23
218-01-9	Chrysene	270		78	38
53-70-3	Dibenz(a,h)anthracene	78	U	78	38
206-44-0	Fluoranthene	320		78	38
86-73-7	Fluorene	78	U	78	38
193-39-5	Indeno[1,2,3-cd]pyrene	70	J	78	38
90-12-0	1-Methylnaphthalene	91		78	36
91-57-6	2-Methylnaphthalene	110		78	38
91-20-3	Naphthalene	80		78	38
85-01-8	Phenanthrene	190		78	28
129-00-0	Pyrene	300	J	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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971NN-CS12" | Lab Sample ID: 680-106803-11

Matrix: Solid | Lab File ID: 1KK0319.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 10:30

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.01(g) | Date Analyzed: 11/03/2014 17:11

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

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

% Moisture: 14.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	79	U	79	39
208-96-8	Acenaphthylene	79	U	79	39
120-12-7	Anthracene	79	U	79	39
56-55-3	Benzo[a]anthracene	100		79	39
50-32-8	Benzo[a]pyrene	110		79	14
205-99-2	Benzo[b]fluoranthene	180		79	39
191-24-2	Benzo[g,h,i]perylene	46	J	79	39
207-08-9	Benzo[k]fluoranthene	75	J	79	23
218-01-9	Chrysene	150		79	39
53-70-3	Dibenz(a,h)anthracene	79	U	79	39
206-44-0	Fluoranthene	170		79	39
86-73-7	Fluorene	79	U	79	39
193-39-5	Indeno[1,2,3-cd]pyrene	79	U	79	39
90-12-0	1-Methylnaphthalene	79	U	79	36
91-57-6	2-Methylnaphthalene	79	U	79	39
91-20-3	Naphthalene	79	U	79	39
85-01-8	Phenanthrene	110		79	28
129-00-0	Pyrene	160	J	79	39

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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971NN-CSD12" | Lab Sample ID: 680-106803-12

Matrix: Solid | Lab File ID: 1KK0320.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 10:35

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.04(g) | Date Analyzed: 11/03/2014 17:34

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

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

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

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	78	U	78	39
208-96-8	Acenaphthylene	78	U	78	39
120-12-7	Anthracene	78	U	78	39
56-55-3	Benzo[a]anthracene	89		78	39
50-32-8	Benzo[a]pyrene	100		78	14
205-99-2	Benzo[b]fluoranthene	180		78	39
191-24-2	Benzo[g,h,i]perylene	45	J	78	39
207-08-9	Benzo[k]fluoranthene	58	J	78	23
218-01-9	Chrysene	130		78	39
53-70-3	Dibenz(a,h)anthracene	78	U	78	39
206-44-0	Fluoranthene	150		78	39
86-73-7	Fluorene	78	U	78	39
193-39-5	Indeno[1,2,3-cd]pyrene	78	U	78	39
90-12-0	1-Methylnaphthalene	78	U	78	36
91-57-6	2-Methylnaphthalene	78	U	78	39
91-20-3	Naphthalene	78	U	78	39
85-01-8	Phenanthrene	83		78	28
129-00-0	Pyrene	140	J	78	39

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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971NN-CS18" | Lab Sample ID: 680-106803-13

Matrix: Solid | Lab File ID: 1KK0321.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 10:45

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.03(g) | Date Analyzed: 11/03/2014 17:56

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

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

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	79	U	79	39
208-96-8	Acenaphthylene	79	U	79	39
120-12-7	Anthracene	79	U	79	39
56-55-3	Benzo[a]anthracene	43	J	79	39
50-32-8	Benzo[a]pyrene	49	J	79	14
205-99-2	Benzo[b]fluoranthene	71	J	79	39
191-24-2	Benzo[g,h,i]perylene	79	U	79	39
207-08-9	Benzo[k]fluoranthene	29	J	79	24
218-01-9	Chrysene	53	J	79	39
53-70-3	Dibenz(a,h)anthracene	79	U	79	39
206-44-0	Fluoranthene	61	J	79	39
86-73-7	Fluorene	79	U	79	39
193-39-5	Indeno[1,2,3-cd]pyrene	79	U	79	39
90-12-0	1-Methylnaphthalene	79	U	79	37
91-57-6	2-Methylnaphthalene	79	U	79	39
91-20-3	Naphthalene	79	U	79	39
85-01-8	Phenanthrene	29	J	79	28
129-00-0	Pyrene	59	~~J~~ J	79	39

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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971NN-CS24" | Lab Sample ID: 680-106803-14

Matrix: Solid | Lab File ID: 1KK0322.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 11:00

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.03(g) | Date Analyzed: 11/03/2014 18:19

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

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

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

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	79	U	79	39
208-96-8	Acenaphthylene	79	U	79	39
120-12-7	Anthracene	79	U	79	39
56-55-3	Benzo[a]anthracene	90		79	39
50-32-8	Benzo[a]pyrene	120		79	14
205-99-2	Benzo[b]fluoranthene	180		79	39
191-24-2	Benzo[g,h,i]perylene	47	J	79	39
207-08-9	Benzo[k]fluoranthene	88		79	24
218-01-9	Chrysene	140		79	39
53-70-3	Dibenz(a,h)anthracene	79	U	79	39
206-44-0	Fluoranthene	200		79	39
86-73-7	Fluorene	79	U	79	39
193-39-5	Indeno[1,2,3-cd]pyrene	79	U	79	39
90-12-0	1-Methylnaphthalene	79	U	79	36
91-57-6	2-Methylnaphthalene	79	U	79	39
91-20-3	Naphthalene	79	U	79	39
85-01-8	Phenanthrene	110		79	28
129-00-0	Pyrene	190	J	79	39

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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971AP-GS6" | Lab Sample ID: 680-106803-15

Matrix: Solid | Lab File ID: 1KK0323.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 11:20

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.01(g) | Date Analyzed: 11/03/2014 18:42

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

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

% Moisture: 15.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	80	U	80	39
208-96-8	Acenaphthylene	80	U	80	39
120-12-7	Anthracene	80	U	80	39
56-55-3	Benzo[a]anthracene	230		80	39
50-32-8	Benzo[a]pyrene	230		80	14
205-99-2	Benzo[b]fluoranthene	400		80	39
191-24-2	Benzo[g,h,i]perylene	92		80	39
207-08-9	Benzo[k]fluoranthene	170		80	24
218-01-9	Chrysene	270		80	39
53-70-3	Dibenz(a,h)anthracene	80	U	80	39
206-44-0	Fluoranthene	400		80	39
86-73-7	Fluorene	80	U	80	39
193-39-5	Indeno[1,2,3-cd]pyrene	61	J	80	39
90-12-0	1-Methylnaphthalene	55	J	80	37
91-57-6	2-Methylnaphthalene	70	J	80	39
91-20-3	Naphthalene	48	J	80	39
85-01-8	Phenanthrene	240		80	28
129-00-0	Pyrene	360	J	80	39

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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971AP-GS12" | Lab Sample ID: 680-106803-16

Matrix: Solid | Lab File ID: 1KK0324.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 11:35

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.01(g) | Date Analyzed: 11/03/2014 19:05

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

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

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

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	83	U	83	41
208-96-8	Acenaphthylene	83	U	83	41
120-12-7	Anthracene	110		83	41
56-55-3	Benzo[a]anthracene	470		83	41
50-32-8	Benzo[a]pyrene	470		83	15
205-99-2	Benzo[b]fluoranthene	830		83	41
191-24-2	Benzo[g,h,i]perylene	190		83	41
207-08-9	Benzo[k]fluoranthene	290		83	25
218-01-9	Chrysene	530		83	41
53-70-3	Dibenz(a,h)anthracene	68	J	83	41
206-44-0	Fluoranthene	870		83	41
86-73-7	Fluorene	47	J	83	41
193-39-5	Indeno[1,2,3-cd]pyrene	110		83	41
90-12-0	1-Methylnaphthalene	110		83	38
91-57-6	2-Methylnaphthalene	120		83	41
91-20-3	Naphthalene	120		83	41
85-01-8	Phenanthrene	590		83	30
129-00-0	Pyrene	690	J	83	41

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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971AP-GS18" | Lab Sample ID: 680-106803-17

Matrix: Solid | Lab File ID: 1KK0325.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 11:50

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.01(g) | Date Analyzed: 11/03/2014 19:27

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

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

% Moisture: 14.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	79	U	79	39
208-96-8	Acenaphthylene	79	U	79	39
120-12-7	Anthracene	79	U	79	39
56-55-3	Benzo[a]anthracene	71	J	79	39
50-32-8	Benzo[a]pyrene	87		79	14
205-99-2	Benzo[b]fluoranthene	130		79	39
191-24-2	Benzo[g,h,i]perylene	79	U	79	39
207-08-9	Benzo[k]fluoranthene	54	J	79	23
218-01-9	Chrysene	90		79	39
53-70-3	Dibenz(a,h)anthracene	79	U	79	39
206-44-0	Fluoranthene	120		79	39
86-73-7	Fluorene	79	U	79	39
193-39-5	Indeno[1,2,3-cd]pyrene	79	U	79	39
90-12-0	1-Methylnaphthalene	79	U	79	36
91-57-6	2-Methylnaphthalene	79	U	79	39
91-20-3	Naphthalene	79	U	79	39
85-01-8	Phenanthrene	41	J	79	28
129-00-0	Pyrene	100	J	79	39

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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971AP-GS24" | Lab Sample ID: 680-106803-18

Matrix: Solid | Lab File ID: 1KK0326.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 12:05

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.01(g) | Date Analyzed: 11/03/2014 19:50

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

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

% Moisture: 15.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	79	U	79	39
208-96-8	Acenaphthylene	79	U	79	39
120-12-7	Anthracene	79	U	79	39
56-55-3	Benzo[a]anthracene	79	U	79	39
50-32-8	Benzo[a]pyrene	24	J	79	14
205-99-2	Benzo[b]fluoranthene	39	J	79	39
191-24-2	Benzo[g,h,i]perylene	79	U	79	39
207-08-9	Benzo[k]fluoranthene	79	U	79	24
218-01-9	Chrysene	79	U	79	39
53-70-3	Dibenz(a,h)anthracene	79	U	79	39
206-44-0	Fluoranthene	79	U	79	39
86-73-7	Fluorene	79	U	79	39
193-39-5	Indeno[1,2,3-cd]pyrene	79	U	79	39
90-12-0	1-Methylnaphthalene	79	U	79	37
91-57-6	2-Methylnaphthalene	79	U	79	39
91-20-3	Naphthalene	79	U	79	39
85-01-8	Phenanthrene	79	U	79	28
129-00-0	Pyrene	79	~~U~~ UJ	79	39

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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971AD-GS6" | Lab Sample ID: 680-106803-19

Matrix: Solid | Lab File ID: 1KK0327.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 12:50

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.05(g) | Date Analyzed: 11/03/2014 20:13

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

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

% Moisture: 18.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	8.2	U	8.2	4.0
208-96-8	Acenaphthylene	8.2	U	8.2	4.0
120-12-7	Anthracene	8.2	U	8.2	4.0
56-55-3	Benzo[a]anthracene	6.3	J	8.2	4.0
50-32-8	Benzo[a]pyrene	6.4	J	8.2	1.5
205-99-2	Benzo[b]fluoranthene	12		8.2	4.0
191-24-2	Benzo[g,h,i]perylene	8.2	U	8.2	4.0
207-08-9	Benzo[k]fluoranthene	4.3	J	8.2	2.5
218-01-9	Chrysene	8.6		8.2	4.0
53-70-3	Dibenz(a,h)anthracene	8.2	U	8.2	4.0
206-44-0	Fluoranthene	7.9	J	8.2	4.0
86-73-7	Fluorene	8.2	U	8.2	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	8.2	U	8.2	4.0
90-12-0	1-Methylnaphthalene	8.2	U	8.2	3.8
91-57-6	2-Methylnaphthalene	8.2	U	8.2	4.0
91-20-3	Naphthalene	8.2	U	8.2	4.0
85-01-8	Phenanthrene	7.0	J	8.2	2.9
129-00-0	Pyrene	7.7	~~J~~ J	8.2	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	49		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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971AD-GS12" | Lab Sample ID: 680-106803-20

Matrix: Solid | Lab File ID: 1KK0328.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 13:00

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.04(g) | Date Analyzed: 11/03/2014 20:36

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

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

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	8.2	U	8.2	4.1
208-96-8	Acenaphthylene	8.2	U	8.2	4.1
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	8.2		8.2	4.1
50-32-8	Benzo[a]pyrene	8.1	J	8.2	1.5
205-99-2	Benzo[b]fluoranthene	13		8.2	4.1
191-24-2	Benzo[g,h,i]perylene	8.2	U	8.2	4.1
207-08-9	Benzo[k]fluoranthene	5.2	J	8.2	2.5
218-01-9	Chrysene	9.6		8.2	4.1
53-70-3	Dibenz(a,h)anthracene	8.2	U	8.2	4.1
206-44-0	Fluoranthene	15		8.2	4.1
86-73-7	Fluorene	8.2	U	8.2	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	8.2	U	8.2	4.1
90-12-0	1-Methylnaphthalene	8.2	U	8.2	3.8
91-57-6	2-Methylnaphthalene	8.2	U	8.2	4.1
91-20-3	Naphthalene	8.2	U	8.2	4.1
85-01-8	Phenanthrene	8.5		8.2	3.0
129-00-0	Pyrene	13	J	8.2	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		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: 680-106803-1

SDG Number: 680-106803-01

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
11/11/2014 9:24 AM

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

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: 680-106803-1

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.

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

RECEIPT

The samples were received on 10/31/2014 9:34 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.6º C, 4.2º C and 4.4º C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH

Samples CV0971VV-CS6" (680-106803-1), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24" (680-106803-4), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971JJ-CS24" (680-106803-9), CV0971NN-CS6" (680-106803-10), CV0971NN-CS12" (680-106803-11), CV0971NN-CSD12" (680-106803-12), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971AP-GS6" (680-106803-15), CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AD-GS6" (680-106803-19) and CV0971AD-GS12" (680-106803-20) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D.

Method(s) 8270D_LL_PAH: The following sample(s) was diluted due to the nature of the sample matrix: CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AP-GS6" (680-106803-15), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971NN-CS12" (680-106803-11), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971NN-CS6" (680-106803-10), CV0971NN-CSD12" (680-106803-12), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24" (680-106803-4), CV0971VV-CS6" (680-106803-1), CV0971VV-CS12" (680-106803-2 MS), CV0971VV-CS12" (680-106803-2 MSD). 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: Analyst accidentally double spiked the following samples with internal standard. Data has been corrected and high recovery flags have been removed. Data has been qualified and reported: (LCS 680-356398/22-A), (MB 680-356398/21-A), CV0971AD-GS12" (680-106803-20), CV0971AD-GS6" (680-106803-19), CV0971JJ-CS24" (680-106803-9), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6).

Method(s) 8270D_LL_PAH: Manual integration was performed on the following sample(s): CV0971AD-GS12" (680-106803-20), CV0971AD-GS6" (680-106803-19), CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AP-GS6" (680-106803-15), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971JJ-CS24" (680-106803-9), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6), CV0971NN-CS12" (680-106803-11), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971NN-CS6" (680-106803-10), CV0971NN-CSD12" (680-106803-12), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24" (680-106803-4), CV0971VV-CS6" (680-106803-1).

Method(s) 8270D_LL_PAH: The continuing calibration verification (CCV) analyzed in batch 356621 was outside the method criteria for the following analyte(s): o-terphenyl and Pyrene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

METALS (ICP)

Samples CV0971VV-CS6" (680-106803-1), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24" (680-106803-4), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971JJ-CS24" (680-106803-9), CV0971NN-CS6" (680-106803-10), CV0971NN-CS12" (680-106803-11), CV0971NN-CSD12" (680-106803-12), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971AP-GS6" (680-106803-15), CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AD-GS6" (680-106803-19) and CV0971AD-GS12" (680-106803-20) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C.

One or more metals analytes are outside QC precision and accuracy criteria for the MS and MSD of sample CV0971VV-CS12" (680-106803-2) in batch 680-357015. Refer to the QC report for details.

PERCENT SOLIDS/MOISTURE

Samples CV0971VV-CS6" (680-106803-1), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24"

(680-106803-4), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971JJ-CS24" (680-106803-9), CV0971NN-CS6" (680-106803-10), CV0971NN-CS12" (680-106803-11), CV0971NN-CSD12" (680-106803-12), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971AP-GS6" (680-106803-15), CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AD-GS6" (680-106803-19) and CV0971AD-GS12" (680-106803-20) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106803-1
Sdg Number: 680-106803-01

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-106803-1	CV0971VV-CS6"	Solid	10/27/2014 1445	10/31/2014 0934
680-106803-2	CV0971VV-CS12"	Solid	10/27/2014 1500	10/31/2014 0934
680-106803-2MS	CV0971VV-CS12"	Solid	10/27/2014 1500	10/31/2014 0934
680-106803-2MSD	CV0971VV-CS12"	Solid	10/27/2014 1500	10/31/2014 0934
680-106803-3	CV0971VV-CS18"	Solid	10/27/2014 1515	10/31/2014 0934
680-106803-4	CV0971VV-CS24"	Solid	10/27/2014 1530	10/31/2014 0934
680-106803-5	CV0971JJ-CS6"	Solid	10/28/2014 0840	10/31/2014 0934
680-106803-6	CV0971JJ-CSD6"	Solid	10/28/2014 0845	10/31/2014 0934
680-106803-7	CV0971JJ-CS12"	Solid	10/28/2014 0855	10/31/2014 0934
680-106803-8	CV0971JJ-CS18"	Solid	10/28/2014 0910	10/31/2014 0934
680-106803-9	CV0971JJ-CS24"	Solid	10/28/2014 0925	10/31/2014 0934
680-106803-10	CV0971NN-CS6"	Solid	10/28/2014 1015	10/31/2014 0934
680-106803-11	CV0971NN-CS12"	Solid	10/28/2014 1030	10/31/2014 0934
680-106803-12	CV0971NN-CSD12"	Solid	10/28/2014 1035	10/31/2014 0934
680-106803-13	CV0971NN-CS18"	Solid	10/28/2014 1045	10/31/2014 0934
680-106803-14	CV0971NN-CS24"	Solid	10/28/2014 1100	10/31/2014 0934
680-106803-15	CV0971AP-GS6"	Solid	10/28/2014 1120	10/31/2014 0934
680-106803-16	CV0971AP-GS12"	Solid	10/28/2014 1135	10/31/2014 0934
680-106803-17	CV0971AP-GS18"	Solid	10/28/2014 1150	10/31/2014 0934
680-106803-18	CV0971AP-GS24"	Solid	10/28/2014 1205	10/31/2014 0934
680-106803-19	CV0971AD-GS6"	Solid	10/28/2014 1250	10/31/2014 0934
680-106803-20	CV0971AD-GS12"	Solid	10/28/2014 1300	10/31/2014 0934

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106803-1
Sdg Number: 680-106803-01

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: 680-106803-1
Sdg Number: 680-106803-01

Method	Analyst	Analyst ID
SW846 8270D_LL_PAH	Webb, Kevin M	KMW
SW846 6010C	Robertson, Bryn W	BWR
EPA Moisture	Kicklighter, Marilyn D	MDK

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106803-1
Sdg Number: 680-106803-01

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	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.

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106803-1
Sdg Number: 680-106803-01

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 680-356398					
LCS 680-356398/22-A	Lab Control Sample	T	Solid	3546	
MB 680-356398/21-A	Method Blank	T	Solid	3546	
680-106803-1	CV0971VV-CS6"	T	Solid	3546	
680-106803-2	CV0971VV-CS12"	T	Solid	3546	
680-106803-2MS	Matrix Spike	T	Solid	3546	
680-106803-2MSD	Matrix Spike Duplicate	T	Solid	3546	
680-106803-3	CV0971VV-CS18"	T	Solid	3546	
680-106803-4	CV0971VV-CS24"	T	Solid	3546	
680-106803-5	CV0971JJ-CS6"	T	Solid	3546	
680-106803-6	CV0971JJ-CSD6"	T	Solid	3546	
680-106803-7	CV0971JJ-CS12"	T	Solid	3546	
680-106803-8	CV0971JJ-CS18"	T	Solid	3546	
680-106803-9	CV0971JJ-CS24"	T	Solid	3546	
680-106803-10	CV0971NN-CS6"	T	Solid	3546	
680-106803-11	CV0971NN-CS12"	T	Solid	3546	
680-106803-12	CV0971NN-CSD12"	T	Solid	3546	
680-106803-13	CV0971NN-CS18"	T	Solid	3546	
680-106803-14	CV0971NN-CS24"	T	Solid	3546	
680-106803-15	CV0971AP-GS6"	T	Solid	3546	
680-106803-16	CV0971AP-GS12"	T	Solid	3546	
680-106803-17	CV0971AP-GS18"	T	Solid	3546	
680-106803-18	CV0971AP-GS24"	T	Solid	3546	
680-106803-19	CV0971AD-GS6"	T	Solid	3546	
680-106803-20	CV0971AD-GS12"	T	Solid	3546	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106803-1
Sdg Number: 680-106803-01

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:680-356621					
LCS 680-356398/22-A	Lab Control Sample	T	Solid	8270D_LL_PAH	680-356398
MB 680-356398/21-A	Method Blank	T	Solid	8270D_LL_PAH	680-356398
680-106803-1	CV0971VV-CS6"	T	Solid	8270D_LL_PAH	680-356398
680-106803-2	CV0971VV-CS12"	T	Solid	8270D_LL_PAH	680-356398
680-106803-2MS	Matrix Spike	T	Solid	8270D_LL_PAH	680-356398
680-106803-2MSD	Matrix Spike Duplicate	T	Solid	8270D_LL_PAH	680-356398
680-106803-3	CV0971VV-CS18"	T	Solid	8270D_LL_PAH	680-356398
680-106803-4	CV0971VV-CS24"	T	Solid	8270D_LL_PAH	680-356398
680-106803-5	CV0971JJ-CS6"	T	Solid	8270D_LL_PAH	680-356398
680-106803-6	CV0971JJ-CSD6"	T	Solid	8270D_LL_PAH	680-356398
680-106803-7	CV0971JJ-CS12"	T	Solid	8270D_LL_PAH	680-356398
680-106803-8	CV0971JJ-CS18"	T	Solid	8270D_LL_PAH	680-356398
680-106803-9	CV0971JJ-CS24"	T	Solid	8270D_LL_PAH	680-356398
680-106803-10	CV0971NN-CS6"	T	Solid	8270D_LL_PAH	680-356398
680-106803-11	CV0971NN-CS12"	T	Solid	8270D_LL_PAH	680-356398
680-106803-12	CV0971NN-CSD12"	T	Solid	8270D_LL_PAH	680-356398
680-106803-13	CV0971NN-CS18"	T	Solid	8270D_LL_PAH	680-356398
680-106803-14	CV0971NN-CS24"	T	Solid	8270D_LL_PAH	680-356398
680-106803-15	CV0971AP-GS6"	T	Solid	8270D_LL_PAH	680-356398
680-106803-16	CV0971AP-GS12"	T	Solid	8270D_LL_PAH	680-356398
680-106803-17	CV0971AP-GS18"	T	Solid	8270D_LL_PAH	680-356398
680-106803-18	CV0971AP-GS24"	T	Solid	8270D_LL_PAH	680-356398
680-106803-19	CV0971AD-GS6"	T	Solid	8270D_LL_PAH	680-356398
680-106803-20	CV0971AD-GS12"	T	Solid	8270D_LL_PAH	680-356398

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106803-1
Sdg Number: 680-106803-01

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-356607					
LCS 680-356607/2-A	Lab Control Sample	T	Solid	3050B	
MB 680-356607/1-A	Method Blank	T	Solid	3050B	
680-106803-1	CV0971VV-CS6"	T	Solid	3050B	
680-106803-2	CV0971VV-CS12"	T	Solid	3050B	
680-106803-2MS	Matrix Spike	T	Solid	3050B	
680-106803-2MSD	Matrix Spike Duplicate	T	Solid	3050B	
680-106803-3	CV0971VV-CS18"	T	Solid	3050B	
680-106803-4	CV0971VV-CS24"	T	Solid	3050B	
680-106803-5	CV0971JJ-CS6"	T	Solid	3050B	
680-106803-6	CV0971JJ-CSD6"	T	Solid	3050B	
680-106803-7	CV0971JJ-CS12"	T	Solid	3050B	
680-106803-8	CV0971JJ-CS18"	T	Solid	3050B	
680-106803-9	CV0971JJ-CS24"	T	Solid	3050B	
680-106803-10	CV0971NN-CS6"	T	Solid	3050B	
680-106803-11	CV0971NN-CS12"	T	Solid	3050B	
680-106803-12	CV0971NN-CSD12"	T	Solid	3050B	
680-106803-13	CV0971NN-CS18"	T	Solid	3050B	
680-106803-14	CV0971NN-CS24"	T	Solid	3050B	
680-106803-15	CV0971AP-GS6"	T	Solid	3050B	
680-106803-16	CV0971AP-GS12"	T	Solid	3050B	
680-106803-17	CV0971AP-GS18"	T	Solid	3050B	
680-106803-18	CV0971AP-GS24"	T	Solid	3050B	
680-106803-19	CV0971AD-GS6"	T	Solid	3050B	
680-106803-20	CV0971AD-GS12"	T	Solid	3050B	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106803-1
Sdg Number: 680-106803-01

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:680-357015					
LCS 680-356607/2-A	Lab Control Sample	T	Solid	6010C	680-356607
MB 680-356607/1-A	Method Blank	T	Solid	6010C	680-356607
680-106803-1	CV0971VV-CS6"	T	Solid	6010C	680-356607
680-106803-2	CV0971VV-CS12"	T	Solid	6010C	680-356607
680-106803-2MS	Matrix Spike	T	Solid	6010C	680-356607
680-106803-2MSD	Matrix Spike Duplicate	T	Solid	6010C	680-356607
680-106803-3	CV0971VV-CS18"	T	Solid	6010C	680-356607
680-106803-4	CV0971VV-CS24"	T	Solid	6010C	680-356607
680-106803-5	CV0971JJ-CS6"	T	Solid	6010C	680-356607
680-106803-6	CV0971JJ-CSD6"	T	Solid	6010C	680-356607
680-106803-7	CV0971JJ-CS12"	T	Solid	6010C	680-356607
680-106803-8	CV0971JJ-CS18"	T	Solid	6010C	680-356607
680-106803-9	CV0971JJ-CS24"	T	Solid	6010C	680-356607
680-106803-10	CV0971NN-CS6"	T	Solid	6010C	680-356607
680-106803-11	CV0971NN-CS12"	T	Solid	6010C	680-356607
680-106803-12	CV0971NN-CSD12"	T	Solid	6010C	680-356607
680-106803-13	CV0971NN-CS18"	T	Solid	6010C	680-356607
680-106803-14	CV0971NN-CS24"	T	Solid	6010C	680-356607
680-106803-15	CV0971AP-GS6"	T	Solid	6010C	680-356607
680-106803-16	CV0971AP-GS12"	T	Solid	6010C	680-356607
680-106803-17	CV0971AP-GS18"	T	Solid	6010C	680-356607
680-106803-18	CV0971AP-GS24"	T	Solid	6010C	680-356607
680-106803-19	CV0971AD-GS6"	T	Solid	6010C	680-356607
680-106803-20	CV0971AD-GS12"	T	Solid	6010C	680-356607

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106803-1
Sdg Number: 680-106803-01

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:680-356422					
680-106803-1	CV0971VV-CS6"	T	Solid	Moisture	
680-106803-2	CV0971VV-CS12"	T	Solid	Moisture	
680-106803-2MS	Matrix Spike	T	Solid	Moisture	
680-106803-2MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-106803-3	CV0971VV-CS18"	T	Solid	Moisture	
680-106803-4	CV0971VV-CS24"	T	Solid	Moisture	
680-106803-5	CV0971JJ-CS6"	T	Solid	Moisture	
680-106803-6	CV0971JJ-CSD6"	T	Solid	Moisture	
680-106803-7	CV0971JJ-CS12"	T	Solid	Moisture	
680-106803-8	CV0971JJ-CS18"	T	Solid	Moisture	
680-106803-9	CV0971JJ-CS24"	T	Solid	Moisture	
680-106803-10	CV0971NN-CS6"	T	Solid	Moisture	
680-106803-11	CV0971NN-CS12"	T	Solid	Moisture	
680-106803-12	CV0971NN-CSD12"	T	Solid	Moisture	
680-106803-13	CV0971NN-CS18"	T	Solid	Moisture	
680-106803-14	CV0971NN-CS24"	T	Solid	Moisture	
680-106803-15	CV0971AP-GS6"	T	Solid	Moisture	
680-106803-16	CV0971AP-GS12"	T	Solid	Moisture	
680-106803-17	CV0971AP-GS18"	T	Solid	Moisture	
680-106803-18	CV0971AP-GS24"	T	Solid	Moisture	
680-106803-19	CV0971AD-GS6"	T	Solid	Moisture	
680-106803-20	CV0971AD-GS12"	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Instrument ID: CMSK Analysis Batch Number: 356621

Lab Sample ID: 680-106803-2 Client Sample ID: CV0971VV-CS12"

Date Analyzed: 11/03/14 13:23 Lab File ID: 1KK0309.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.14	Split Peak	webbk	11/03/14 14:37

Lab Sample ID: 680-106803-1 Client Sample ID: CV0971VV-CS6"

Date Analyzed: 11/03/14 13:46 Lab File ID: 1KK0310.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.14	Split Peak	webbk	11/03/14 14:38

Lab Sample ID: 680-106803-3 Client Sample ID: CV0971VV-CS18"

Date Analyzed: 11/03/14 14:09 Lab File ID: 1KK0311.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.14	Split Peak	webbk	11/03/14 14:38

Lab Sample ID: 680-106803-4 Client Sample ID: CV0971VV-CS24"

Date Analyzed: 11/03/14 14:31 Lab File ID: 1KK0312.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.14	Split Peak	webbk	11/03/14 15:04

Lab Sample ID: 680-106803-5 Client Sample ID: CV0971JJ-CS6"

Date Analyzed: 11/03/14 14:54 Lab File ID: 1KK0313.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.14	Split Peak	webbk	11/03/14 15:26

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Instrument ID: CMSK Analysis Batch Number: 356621

Lab Sample ID: 680-106803-6 Client Sample ID: CV0971JJ-CSD6"

Date Analyzed: 11/03/14 15:17 Lab File ID: 1KK0314.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.14	Split Peak	webbk	11/03/14 16:51

Lab Sample ID: 680-106803-7 Client Sample ID: CV0971JJ-CS12"

Date Analyzed: 11/03/14 15:40 Lab File ID: 1KK0315.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.14	Split Peak	webbk	11/03/14 16:53

Lab Sample ID: 680-106803-8 Client Sample ID: CV0971JJ-CS18"

Date Analyzed: 11/03/14 16:03 Lab File ID: 1KK0316.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.14	Split Peak	webbk	11/03/14 16:54

Lab Sample ID: 680-106803-9 Client Sample ID: CV0971JJ-CS24"

Date Analyzed: 11/03/14 16:25 Lab File ID: 1KK0317.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.14	Split Peak	webbk	11/03/14 16:58

Lab Sample ID: 680-106803-10 Client Sample ID: CV0971NN-CS6"

Date Analyzed: 11/03/14 16:48 Lab File ID: 1KK0318.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.14	Split Peak	webbk	11/04/14 09:05

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Instrument ID: CMSK Analysis Batch Number: 356621

Lab Sample ID: 680-106803-11 Client Sample ID: CV0971NN-CS12"

Date Analyzed: 11/03/14 17:11 Lab File ID: 1KK0319.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.14	Split Peak	webbk	11/04/14 09:06

Lab Sample ID: 680-106803-12 Client Sample ID: CV0971NN-CSD12"

Date Analyzed: 11/03/14 17:34 Lab File ID: 1KK0320.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.14	Split Peak	webbk	11/04/14 09:07

Lab Sample ID: 680-106803-13 Client Sample ID: CV0971NN-CS18"

Date Analyzed: 11/03/14 17:56 Lab File ID: 1KK0321.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.14	Split Peak	webbk	11/04/14 09:07

Lab Sample ID: 680-106803-14 Client Sample ID: CV0971NN-CS24"

Date Analyzed: 11/03/14 18:19 Lab File ID: 1KK0322.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.14	Split Peak	webbk	11/04/14 09:08

Lab Sample ID: 680-106803-15 Client Sample ID: CV0971AP-GS6"

Date Analyzed: 11/03/14 18:42 Lab File ID: 1KK0323.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.14	Split Peak	webbk	11/04/14 09:09

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Instrument ID: CMSK Analysis Batch Number: 356621

Lab Sample ID: 680-106803-16 Client Sample ID: CV0971AP-GS12"

Date Analyzed: 11/03/14 19:05 Lab File ID: 1KK0324.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	11.13	Split Peak	webbk	11/04/14 09:10
Benzo[k]fluoranthene	11.15	Split Peak	webbk	11/04/14 09:10

Lab Sample ID: 680-106803-17 Client Sample ID: CV0971AP-GS18"

Date Analyzed: 11/03/14 19:27 Lab File ID: 1KK0325.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.16	Split Peak	webbk	11/04/14 09:10

Lab Sample ID: 680-106803-18 Client Sample ID: CV0971AP-GS24"

Date Analyzed: 11/03/14 19:50 Lab File ID: 1KK0326.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.15	Split Peak	webbk	11/04/14 09:11

Lab Sample ID: 680-106803-19 Client Sample ID: CV0971AD-GS6"

Date Analyzed: 11/03/14 20:13 Lab File ID: 1KK0327.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.14	Split Peak	webbk	11/04/14 09:12

Lab Sample ID: 680-106803-20 Client Sample ID: CV0971AD-GS12"

Date Analyzed: 11/03/14 20:36 Lab File ID: 1KK0328.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.16	Split Peak	webbk	11/04/14 09:13

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.: 680-106803-1

SDG No.: 680-106803-01

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH	#
CV0971VV-CS6"	680-106803-1	0	D
CV0971VV-CS12"	680-106803-2	0	D
CV0971VV-CS18"	680-106803-3	0	D
CV0971VV-CS24"	680-106803-4	0	D
CV0971JJ-CS6"	680-106803-5	54	
CV0971JJ-CSD6"	680-106803-6	54	
CV0971JJ-CS12"	680-106803-7	0	D
CV0971JJ-CS18"	680-106803-8	0	D
CV0971JJ-CS24"	680-106803-9	55	
CV0971NN-CS6"	680-106803-10	0	D
CV0971NN-CS12"	680-106803-11	0	D
CV0971NN-CSD12"	680-106803-12	0	D
CV0971NN-CS18"	680-106803-13	0	D
CV0971NN-CS24"	680-106803-14	0	D
CV0971AP-GS6"	680-106803-15	0	D
CV0971AP-GS12"	680-106803-16	0	D
CV0971AP-GS18"	680-106803-17	0	D
CV0971AP-GS24"	680-106803-18	0	D
CV0971AD-GS6"	680-106803-19	49	
CV0971AD-GS12"	680-106803-20	58	
	MB 680-356398/21-A	74	
	LCS 680-356398/22-A	61	
CV0971VV-CS12" MS	680-106803-2 MS	0	D
CV0971VV-CS12" MSD	680-106803-2 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.: 680-106803-1

SDG No.: 680-106803-01

Matrix: Solid Level: Low Lab File ID: 1KK0306.D

Lab ID: LCS 680-356398/22-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	333	210	63	33-130	
Acenaphthylene	333	206	62	37-131	
Anthracene	333	218	66	42-146	
Benzo[a]anthracene	333	226	68	39-157	
Benzo[a]pyrene	333	219	66	41-158	
Benzo[b]fluoranthene	333	223	67	35-152	
Benzo[g,h,i]perylene	333	191	57	32-150	
Benzo[k]fluoranthene	333	224	67	38-148	
Chrysene	333	217	65	38-147	
Dibenz(a,h)anthracene	333	209	63	32-155	
Fluoranthene	333	207	62	36-147	
Fluorene	333	232	70	36-138	
Indeno[1,2,3-cd]pyrene	333	189	57	35-148	
1-Methylnaphthalene	333	223	67	36-130	
2-Methylnaphthalene	333	216	65	42-130	
Naphthalene	333	204	61	33-130	
Phenanthrene	333	205	61	40-135	
Pyrene	333	206	62	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.: 680-106803-1

SDG No.: 680-106803-01

Matrix: Solid Level: Low Lab File ID: 1KK0307.D

Lab ID: 680-106803-2 MS Client ID: CV0971VV-CS12" MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	390	78 U	184	47	33-130	
Acenaphthylene	390	78 U	186	48	37-131	
Anthracene	390	78 U	189	49	42-146	
Benzo[a]anthracene	390	110	314	52	39-157	
Benzo[a]pyrene	390	120	332	55	41-158	
Benzo[b]fluoranthene	390	190	393	51	35-152	
Benzo[g,h,i]perylene	390	75 J	255	46	32-150	
Benzo[k]fluoranthene	390	67 J	295	58	38-148	
Chrysene	390	150	361	53	38-147	
Dibenz(a,h)anthracene	390	78 U	185	47	32-155	
Fluoranthene	390	210	434	57	36-147	
Fluorene	390	78 U	193	50	36-138	
Indeno[1,2,3-cd]pyrene	390	64 J	237	44	35-148	
1-Methylnaphthalene	390	38 J	212	45	36-130	
2-Methylnaphthalene	390	78 U	207	53	42-130	
Naphthalene	390	78 U	190	49	33-130	
Phenanthrene	390	130	304	44	40-135	
Pyrene	390	170	370	52	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.: 680-106803-1

SDG No.: 680-106803-01

Matrix: Solid Level: Low Lab File ID: 1KK0308.D

Lab ID: 680-106803-2 MSD Client ID: CV0971VV-CS12" MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	390	246	63	29	50	33-130	
Acenaphthylene	390	237	61	24	50	37-131	
Anthracene	390	259	66	31	50	42-146	
Benzo[a]anthracene	390	403	75	25	50	39-157	
Benzo[a]pyrene	390	406	73	20	50	41-158	
Benzo[b]fluoranthene	390	468	70	17	50	35-152	
Benzo[g,h,i]perylene	390	259	47	1	50	32-150	
Benzo[k]fluoranthene	390	377	79	24	50	38-148	
Chrysene	390	462	79	24	50	38-147	
Dibenz(a,h)anthracene	390	225	58	20	50	32-155	
Fluoranthene	390	558	89	25	50	36-147	
Fluorene	390	261	67	30	50	36-138	
Indeno[1,2,3-cd]pyrene	390	282	56	17	50	35-148	
1-Methylnaphthalene	390	276	61	26	50	36-130	
2-Methylnaphthalene	390	273	70	28	50	42-130	
Naphthalene	390	242	62	24	50	33-130	
Phenanthrene	390	425	74	33	50	40-135	
Pyrene	390	462	75	22	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.: 680-106803-1

SDG No.: 680-106803-01

Lab File ID: 1KK0305.D Lab Sample ID: MB 680-356398/21-A

Matrix: Solid Date Extracted: 10/31/2014 17:08

Instrument ID: CMSK Date Analyzed: 11/03/2014 11:52

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 680-356398/22-A	1KK0306.D	11/03/2014 12:14
CV0971VV-CS12" MS	680-106803-2 MS	1KK0307.D	11/03/2014 12:37
CV0971VV-CS12" MSD	680-106803-2 MSD	1KK0308.D	11/03/2014 13:00
CV0971VV-CS12"	680-106803-2	1KK0309.D	11/03/2014 13:23
CV0971VV-CS6"	680-106803-1	1KK0310.D	11/03/2014 13:46
CV0971VV-CS18"	680-106803-3	1KK0311.D	11/03/2014 14:09
CV0971VV-CS24"	680-106803-4	1KK0312.D	11/03/2014 14:31
CV0971JJ-CS6"	680-106803-5	1KK0313.D	11/03/2014 14:54
CV0971JJ-CSD6"	680-106803-6	1KK0314.D	11/03/2014 15:17
CV0971JJ-CS12"	680-106803-7	1KK0315.D	11/03/2014 15:40
CV0971JJ-CS18"	680-106803-8	1KK0316.D	11/03/2014 16:03
CV0971JJ-CS24"	680-106803-9	1KK0317.D	11/03/2014 16:25
CV0971NN-CS6"	680-106803-10	1KK0318.D	11/03/2014 16:48
CV0971NN-CS12"	680-106803-11	1KK0319.D	11/03/2014 17:11
CV0971NN-CSD12"	680-106803-12	1KK0320.D	11/03/2014 17:34
CV0971NN-CS18"	680-106803-13	1KK0321.D	11/03/2014 17:56
CV0971NN-CS24"	680-106803-14	1KK0322.D	11/03/2014 18:19
CV0971AP-GS6"	680-106803-15	1KK0323.D	11/03/2014 18:42
CV0971AP-GS12"	680-106803-16	1KK0324.D	11/03/2014 19:05
CV0971AP-GS18"	680-106803-17	1KK0325.D	11/03/2014 19:27
CV0971AP-GS24"	680-106803-18	1KK0326.D	11/03/2014 19:50
CV0971AD-GS6"	680-106803-19	1KK0327.D	11/03/2014 20:13
CV0971AD-GS12"	680-106803-20	1KK0328.D	11/03/2014 20:36

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

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Lab File ID: 1KJ2202.D DFTPP Injection Date: 10/22/2014

Instrument ID: CMSK DFTPP Injection Time: 13:45

Analysis Batch No.: 354813

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 442	21.3	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	21.6	
70	Less than 2.0 % of mass 69	0.1	(0.6)1
127	10.0 - 80.0 % of mass 442	27.0	
197	Less than 2.0 % of mass 198	0.0	(0.0)2
198	Greater than 50.0 % of mass 442	67.7	
199	5.0 - 9.0 % of mass 198	4.5	(6.7)2
275	10.0 - 60.0 % of mass 442	20.7	
365	Greater than 1.0 % of mass 442	3.3	
441	Present but less than mass 443	16.5	
442	Base Peak, 100% relative abundance	100.0	
443	15.0 - 24.0 % of mass 442	19.7	

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 680-354813/3	1KJ2203.D	10/22/2014	13:59
	IC 680-354813/4	1KJ2204.D	10/22/2014	14:22
	IC 680-354813/5	1KJ2205.D	10/22/2014	14:45
	IC 680-354813/6	1KJ2206.D	10/22/2014	15:08
	IC 680-354813/7	1KJ2207.D	10/22/2014	15:31
	IC 680-354813/8	1KJ2208.D	10/22/2014	15:54
	IC 680-354813/9	1KJ2209.D	10/22/2014	16:17
	ICV 680-354813/10	1KJ2210.D	10/22/2014	16:40

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

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Lab File ID: 1KK0301.D DFTPP Injection Date: 11/03/2014

Instrument ID: CMSK DFTPP Injection Time: 10:18

Analysis Batch No.: 356621

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 442	18.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	18.6	
70	Less than 2.0 % of mass 69	0.1	(0.4)1
127	10.0 - 80.0 % of mass 442	24.5	
197	Less than 2.0 % of mass 198	0.0	(0.0)2
198	Greater than 50.0 % of mass 442	62.5	
199	5.0 - 9.0 % of mass 198	4.2	(6.7)2
275	10.0 - 60.0 % of mass 442	19.3	
365	Greater than 1.0 % of mass 442	3.3	
441	Present but less than mass 443	15.7	
442	Base Peak, 100% relative abundance	100.0	
443	15.0 - 24.0 % of mass 442	19.0	

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 680-356621/2	1KK0302.D	11/03/2014	10:32
	MB 680-356398/21-A	1KK0305.D	11/03/2014	11:52
	LCS 680-356398/22-A	1KK0306.D	11/03/2014	12:14
CV0971VV-CS12" MS	680-106803-2 MS	1KK0307.D	11/03/2014	12:37
CV0971VV-CS12" MSD	680-106803-2 MSD	1KK0308.D	11/03/2014	13:00
CV0971VV-CS12"	680-106803-2	1KK0309.D	11/03/2014	13:23
CV0971VV-CS6"	680-106803-1	1KK0310.D	11/03/2014	13:46
CV0971VV-CS18"	680-106803-3	1KK0311.D	11/03/2014	14:09
CV0971VV-CS24"	680-106803-4	1KK0312.D	11/03/2014	14:31
CV0971JJ-CS6"	680-106803-5	1KK0313.D	11/03/2014	14:54
CV0971JJ-CSD6"	680-106803-6	1KK0314.D	11/03/2014	15:17
CV0971JJ-CS12"	680-106803-7	1KK0315.D	11/03/2014	15:40
CV0971JJ-CS18"	680-106803-8	1KK0316.D	11/03/2014	16:03
CV0971JJ-CS24"	680-106803-9	1KK0317.D	11/03/2014	16:25
CV0971NN-CS6"	680-106803-10	1KK0318.D	11/03/2014	16:48
CV0971NN-CS12"	680-106803-11	1KK0319.D	11/03/2014	17:11
CV0971NN-CSD12"	680-106803-12	1KK0320.D	11/03/2014	17:34
CV0971NN-CS18"	680-106803-13	1KK0321.D	11/03/2014	17:56
CV0971NN-CS24"	680-106803-14	1KK0322.D	11/03/2014	18:19
CV0971AP-GS6"	680-106803-15	1KK0323.D	11/03/2014	18:42
CV0971AP-GS12"	680-106803-16	1KK0324.D	11/03/2014	19:05
CV0971AP-GS18"	680-106803-17	1KK0325.D	11/03/2014	19:27
CV0971AP-GS24"	680-106803-18	1KK0326.D	11/03/2014	19:50

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

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Lab File ID: 1KK0301.D DFTPP Injection Date: 11/03/2014

Instrument ID: CMSK DFTPP Injection Time: 10:18

Analysis Batch No.: 356621

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 442	18.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	18.6	
70	Less than 2.0 % of mass 69	0.1	(0.4)1
127	10.0 - 80.0 % of mass 442	24.5	
197	Less than 2.0 % of mass 198	0.0	(0.0)2
198	Greater than 50.0 % of mass 442	62.5	
199	5.0 - 9.0 % of mass 198	4.2	(6.7)2
275	10.0 - 60.0 % of mass 442	19.3	
365	Greater than 1.0 % of mass 442	3.3	
441	Present but less than mass 443	15.7	
442	Base Peak, 100% relative abundance	100.0	
443	15.0 - 24.0 % of mass 442	19.0	

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
CV0971AD-GS6"	680-106803-19	1KK0327.D	11/03/2014	20:13
CV0971AD-GS12"	680-106803-20	1KK0328.D	11/03/2014	20:36

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

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Sample No.: ICIS 680-354813/3 Date Analyzed: 10/22/2014 13:59

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

Lab File ID (Standard): 1KJ2203.D Heated Purge: (Y/N) N

Calibration ID: 35275

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		344419	4.27	175053	6.07	247926	7.69
UPPER LIMIT		688838	4.77	350106	6.57	495852	8.19
LOWER LIMIT		172210	3.77	87527	5.57	123963	7.19
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 680-354813/10		336948	4.27	158564	6.07	206104	7.69

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.: 680-106803-1

SDG No.: 680-106803-01

Sample No.: ICIS 680-354813/3 Date Analyzed: 10/22/2014 13:59

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

Lab File ID (Standard): 1KJ2203.D Heated Purge: (Y/N) N

Calibration ID: 35275

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		220458	10.52	183053	12.06		
UPPER LIMIT		440916	11.02	366106	12.56		
LOWER LIMIT		110229	10.02	91527	11.56		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 680-354813/10		176462	10.51	152435	12.05		

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.: 680-106803-1

SDG No.: 680-106803-01

Sample No.: CCVIS 680-356621/2 Date Analyzed: 11/03/2014 10:32

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

Lab File ID (Standard): 1KK0302.D Heated Purge: (Y/N) N

Calibration ID: 35275

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		280448	3.89	145494	5.66	214195	7.27
UPPER LIMIT		560896	4.39	290988	6.16	428390	7.77
LOWER LIMIT		140224	3.39	72747	5.16	107098	6.77
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 680-356398/21-A		818206	3.89	465331	5.66	725462	7.27
LCS 680-356398/22-A		808043	3.89	470519	5.67	736855	7.27
680-106803-2 MS	CV0971VV-CS12" MS	359115	3.89	206297	5.66	303964	7.27
680-106803-2 MSD	CV0971VV-CS12" MSD	398568	3.89	231400	5.66	340063	7.27
680-106803-2	CV0971VV-CS12"	373751	3.89	210696	5.66	300928	7.27
680-106803-1	CV0971VV-CS6"	406250	3.89	241731	5.66	343715	7.27
680-106803-3	CV0971VV-CS18"	414752	3.89	246586	5.66	365464	7.27
680-106803-4	CV0971VV-CS24"	418268	3.89	249268	5.66	374899	7.27
680-106803-5	CV0971JJ-CS6"	776313	3.89	455319	5.66	666205	7.27
680-106803-6	CV0971JJ-CSD6"	834874	3.89	500093	5.66	732750	7.27
680-106803-7	CV0971JJ-CS12"	413085	3.89	240591	5.66	344193	7.27
680-106803-8	CV0971JJ-CS18"	437145	3.89	253889	5.67	360242	7.27
680-106803-9	CV0971JJ-CS24"	802522	3.89	467580	5.66	684444	7.27
680-106803-10	CV0971NN-CS6"	434080	3.89	250427	5.66	357429	7.27
680-106803-11	CV0971NN-CS12"	433339	3.89	243559	5.67	350308	7.27
680-106803-12	CV0971NN-CSD12"	420357	3.89	240271	5.66	338209	7.27
680-106803-13	CV0971NN-CS18"	426853	3.89	244402	5.67	356710	7.27
680-106803-14	CV0971NN-CS24"	382077	3.89	216489	5.67	319371	7.27
680-106803-15	CV0971AP-GS6"	419870	3.89	239073	5.67	357619	7.27
680-106803-16	CV0971AP-GS12"	386241	3.89	210925	5.67	309912	7.27
680-106803-17	CV0971AP-GS18"	416515	3.89	233544	5.67	338980	7.27
680-106803-18	CV0971AP-GS24"	394747	3.89	215241	5.67	300040	7.27
680-106803-19	CV0971AD-GS6"	862112	3.89	473306	5.67	698652	7.27
680-106803-20	CV0971AD-GS12"	790327	3.89	434631	5.66	669303	7.27

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.: 680-106803-1

SDG No.: 680-106803-01

Sample No.: CCVIS 680-356621/2 Date Analyzed: 11/03/2014 10:32

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

Lab File ID (Standard): 1KK0302.D Heated Purge: (Y/N) N

Calibration ID: 35275

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		198869	10.09	179257	11.50		
UPPER LIMIT		397738	10.59	358514	12.00		
LOWER LIMIT		99435	9.59	89629	11.00		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 680-356398/21-A		452997	10.10	309396	11.50		
LCS 680-356398/22-A		511062	10.10	409804	11.50		
680-106803-2 MS	CV0971VV-CS12" MS	229939	10.09	190037	11.50		
680-106803-2 MSD	CV0971VV-CS12" MSD	255344	10.09	220161	11.50		
680-106803-2	CV0971VV-CS12"	240163	10.09	198934	11.50		
680-106803-1	CV0971VV-CS6"	221071	10.10	181235	11.50		
680-106803-3	CV0971VV-CS18"	260143	10.10	209310	11.50		
680-106803-4	CV0971VV-CS24"	254593	10.10	197004	11.50		
680-106803-5	CV0971JJ-CS6"	444035	10.10	327822	11.51		
680-106803-6	CV0971JJ-CSD6"	490751	10.10	342870	11.51		
680-106803-7	CV0971JJ-CS12"	224177	10.10	176158	11.50		
680-106803-8	CV0971JJ-CS18"	235322	10.10	162093	11.50		
680-106803-9	CV0971JJ-CS24"	442181	10.10	271063	11.50		
680-106803-10	CV0971NN-CS6"	229232	10.10	149995	11.50		
680-106803-11	CV0971NN-CS12"	212836	10.10	135876	11.50		
680-106803-12	CV0971NN-CSD12"	215752	10.10	152299	11.50		
680-106803-13	CV0971NN-CS18"	237433	10.10	158673	11.50		
680-106803-14	CV0971NN-CS24"	190435	10.10	117040	11.50		
680-106803-15	CV0971AP-GS6"	220143	10.10	123992	11.51		
680-106803-16	CV0971AP-GS12"	217579	10.10	112523	11.51		
680-106803-17	CV0971AP-GS18"	231816	10.10	136507	11.52		
680-106803-18	CV0971AP-GS24"	177428	10.10	125532	11.51		
680-106803-19	CV0971AD-GS6"	465133	10.10	305915	11.51		
680-106803-20	CV0971AD-GS12"	457151	10.10	278934	11.52		

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 I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971VV-CS6" | Lab Sample ID: 680-106803-1

Matrix: Solid | Lab File ID: 1KK0310.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/27/2014 14:45

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.05(g) | Date Analyzed: 11/03/2014 13:46

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

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

% Moisture: 13.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | 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	43	J	77	38
56-55-3	Benzo[a]anthracene	310		77	38
50-32-8	Benzo[a]pyrene	360		77	14
205-99-2	Benzo[b]fluoranthene	540		77	38
191-24-2	Benzo[g,h,i]perylene	170		77	38
207-08-9	Benzo[k]fluoranthene	180		77	23
218-01-9	Chrysene	390		77	38
53-70-3	Dibenz(a,h)anthracene	50	J	77	38
206-44-0	Fluoranthene	540		77	38
86-73-7	Fluorene	77	U	77	38
193-39-5	Indeno[1,2,3-cd]pyrene	160		77	38
90-12-0	1-Methylnaphthalene	39	J	77	36
91-57-6	2-Methylnaphthalene	40	J	77	38
91-20-3	Naphthalene	77	U	77	38
85-01-8	Phenanthrene	260		77	28
129-00-0	Pyrene	510		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\CMSK\20141103-14354.b\1KK0310.D				
Lims ID:	680-106803-B-1-A	Lab Sample ID:	680-106803-1		
Client ID:	CV0971VV-CS6"				
Sample Type:	Client				
Inject. Date:	03-Nov-2014 13:46:30	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	680-106803-B-1-A 1:10				
Misc. Info.:	680-0014354-010				
Operator ID:	RM	Instrument ID:	CMSK		
Method:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m				
Limit Group:	8270D_LL_PAH				
Last Update:	04-Nov-2014 09:15:09	Calib Date:	22-Oct-2014 16:17:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D				
Column 1 :	Restek RXi-5Sil MS (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: webbk		Date:	03-Nov-2014 14:38:01		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.893	3.893	0.000	99	406250	2.00	
* 2 Acenaphthene-d10	164	5.662	5.662	0.000	91	241731	2.00	
* 3 Phenanthrene-d10	188	7.266	7.266	0.000	98	343715	2.00	
* 4 Chrysene-d12	240	10.098	10.092	0.006	99	221071	2.00	
* 5 Perylene-d12	264	11.496	11.496	0.000	99	181235	2.00	
7 Naphthalene	128	3.911	3.911	0.000	98	17833	0.0795	
9 2-Methylnaphthalene	142	4.586	4.586	0.000	83	14588	0.1051	
8 1-Methylnaphthalene	142	4.686	4.680	0.006	94	13306	0.1012	
15 Phenanthrene	178	7.295	7.289	0.006	97	143188	0.6840	
16 Anthracene	178	7.348	7.348	0.000	98	22078	0.1121	
17 Fluoranthene	202	8.593	8.594	-0.001	98	293778	1.40	
18 Pyrene	202	8.834	8.829	0.005	97	265145	1.34	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	97	105675	0.8006	
20 Chrysene	228	10.121	10.115	0.006	98	125133	1.00	
21 Benzo[b]fluoranthene	252	11.114	11.114	0.000	98	165036	1.41	
22 Benzo[k]fluoranthene	252	11.138	11.138	0.000	97	57319	0.4725	M
23 Benzo[a]pyrene	252	11.437	11.437	0.000	97	96472	0.9430	
24 Indeno[1,2,3-cd]pyrene	276	12.765	12.765	0.000	99	50533	0.4193	
25 Dibenz(a,h)anthracene	278	12.783	12.795	-0.012	93	12430	0.1309	
26 Benzo[g,h,i]perylene	276	13.135	13.141	-0.006	97	45621	0.4394	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

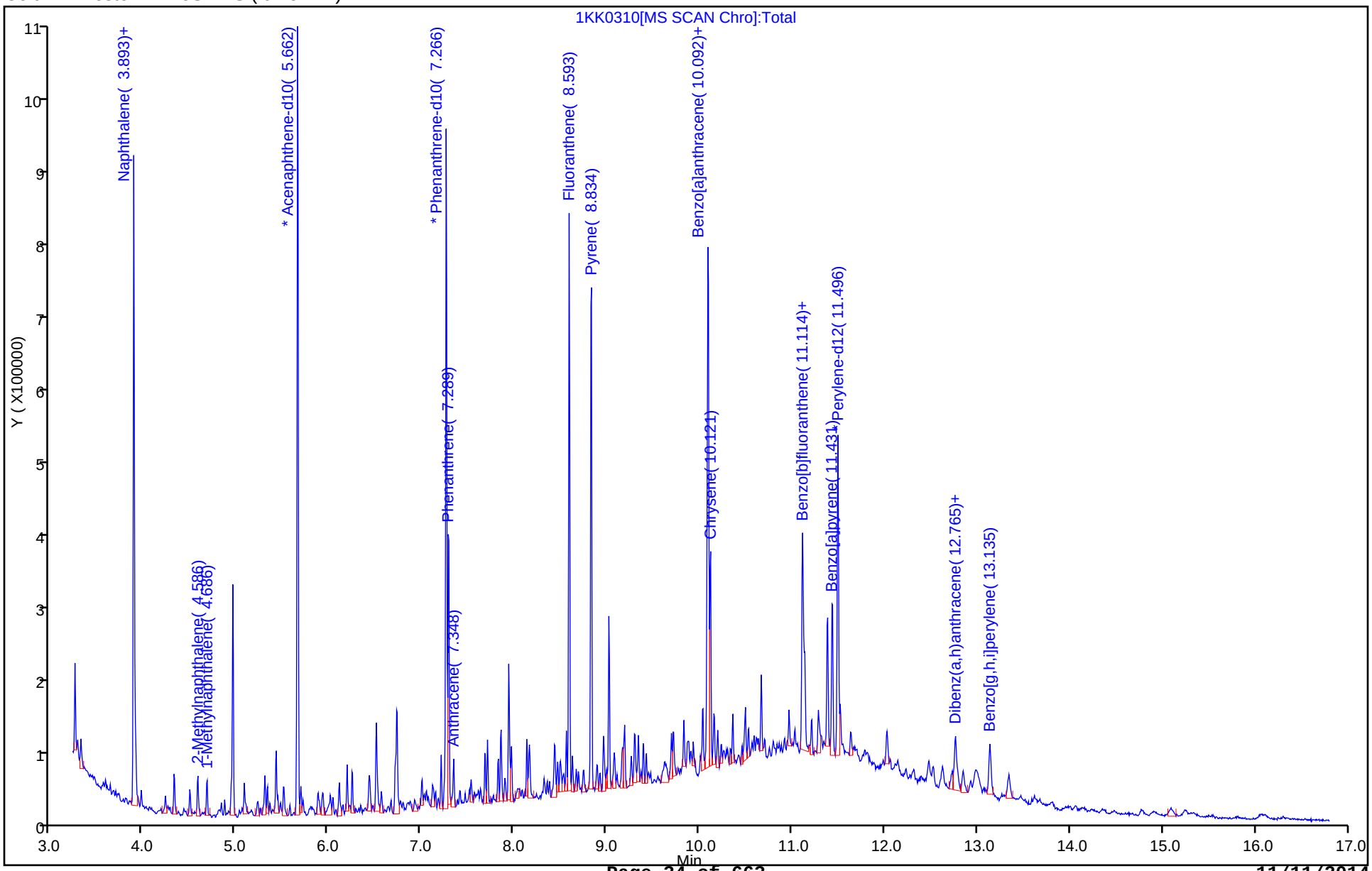
SM-LLISTD_00110 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 04-Nov-2014 09:15:32 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0310.D				
Injection Date:	03-Nov-2014 13:46:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-1-A	Lab Sample ID:	680-106803-1	Worklist Smp#:	10
Client ID:	CV0971VV-CS6"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	10
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

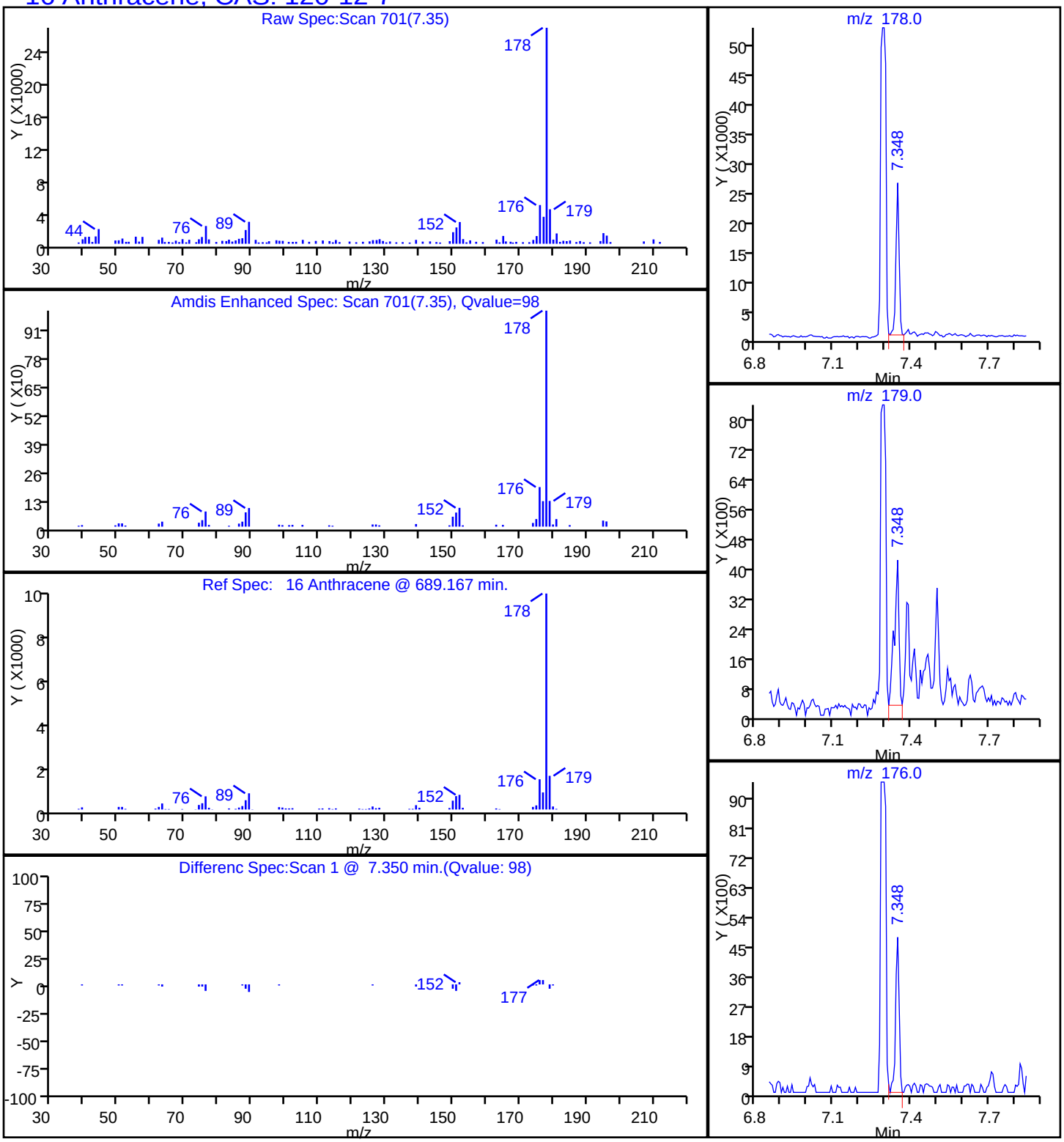


Report Date: 04-Nov-2014 09:15:33 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0310.D				
Injection Date:	03-Nov-2014 13:46:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-1-A	Lab Sample ID:	680-106803-1		
Client ID:	CV0971VV-CS6"				
Operator ID:	RM	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

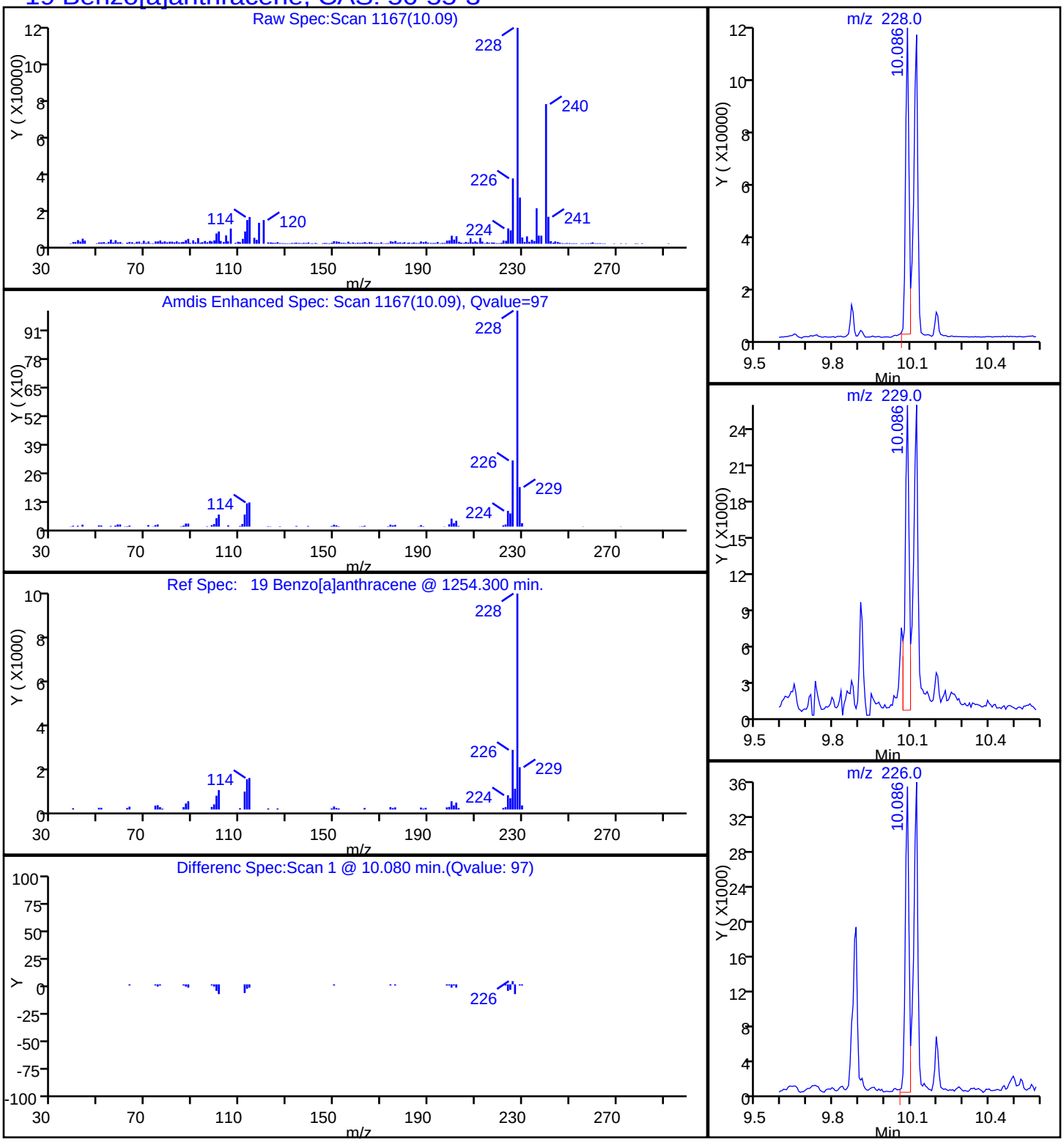


Report Date: 04-Nov-2014 09:15:33 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0310.D				
Injection Date:	03-Nov-2014 13:46:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-1-A	Lab Sample ID:	680-106803-1		
Client ID:	CV0971VV-CS6"				
Operator ID:	RM	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

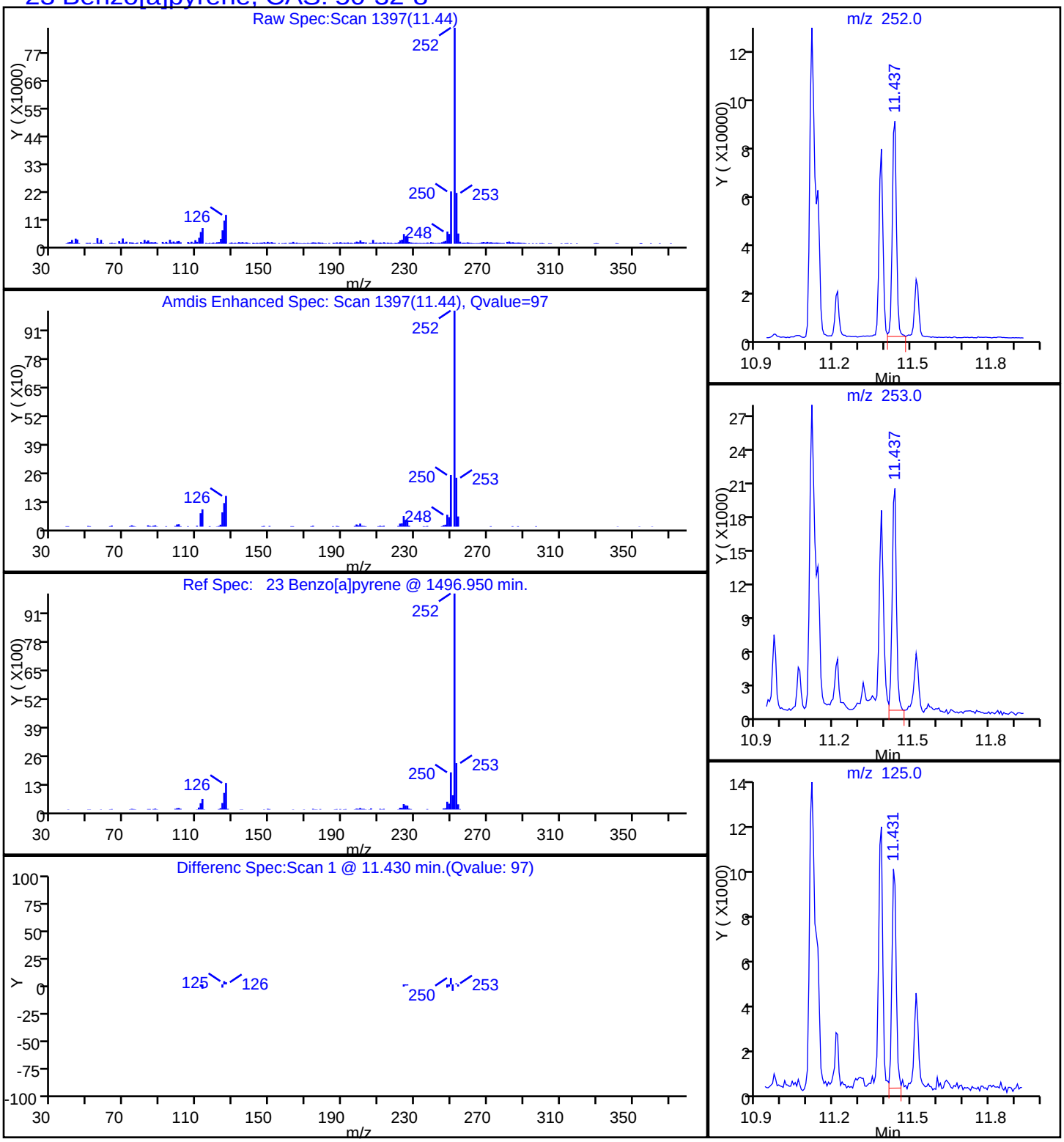


Report Date: 04-Nov-2014 09:15:33 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0310.D				
Injection Date:	03-Nov-2014 13:46:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-1-A	Lab Sample ID:	680-106803-1		
Client ID:	CV0971VV-CS6"				
Operator ID:	RM	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

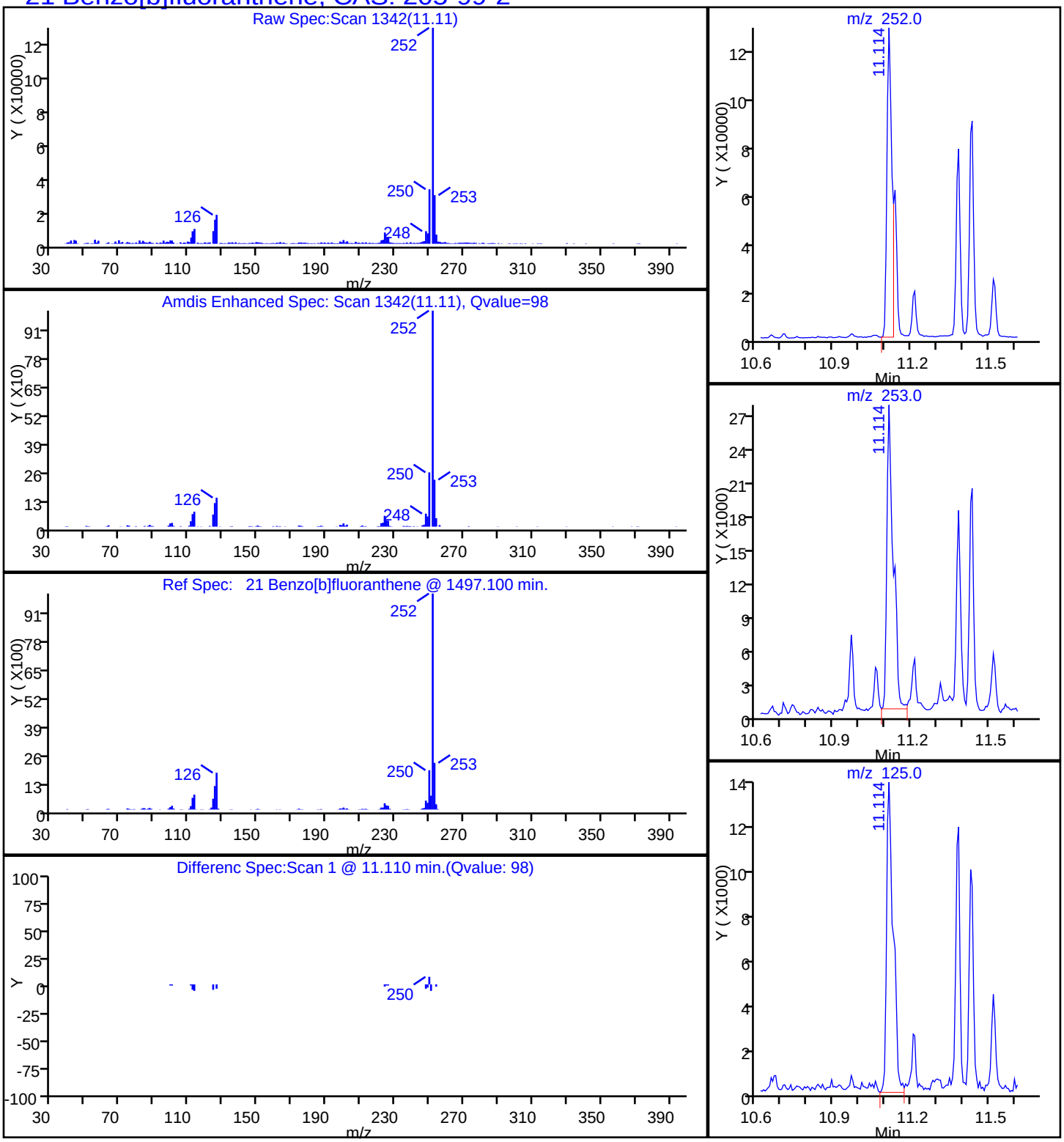


Report Date: 04-Nov-2014 09:15:33 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0310.D				
Injection Date:	03-Nov-2014 13:46:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-1-A	Lab Sample ID:	680-106803-1		
Client ID:	CV0971VV-CS6"				
Operator ID:	RM	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

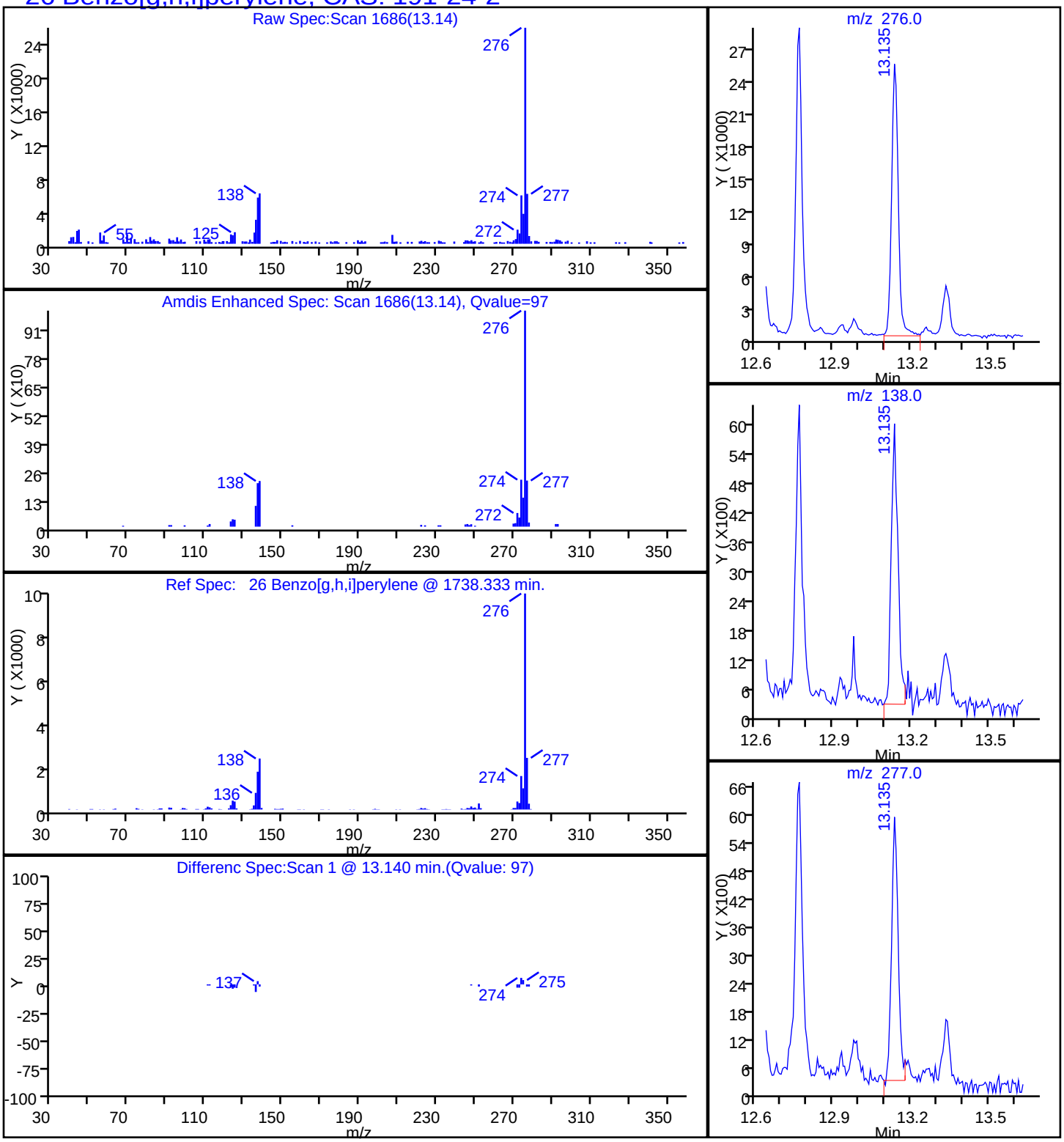


Report Date: 04-Nov-2014 09:15:33 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0310.D				
Injection Date:	03-Nov-2014 13:46:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-1-A	Lab Sample ID:	680-106803-1		
Client ID:	CV0971VV-CS6"				
Operator ID:	RM	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

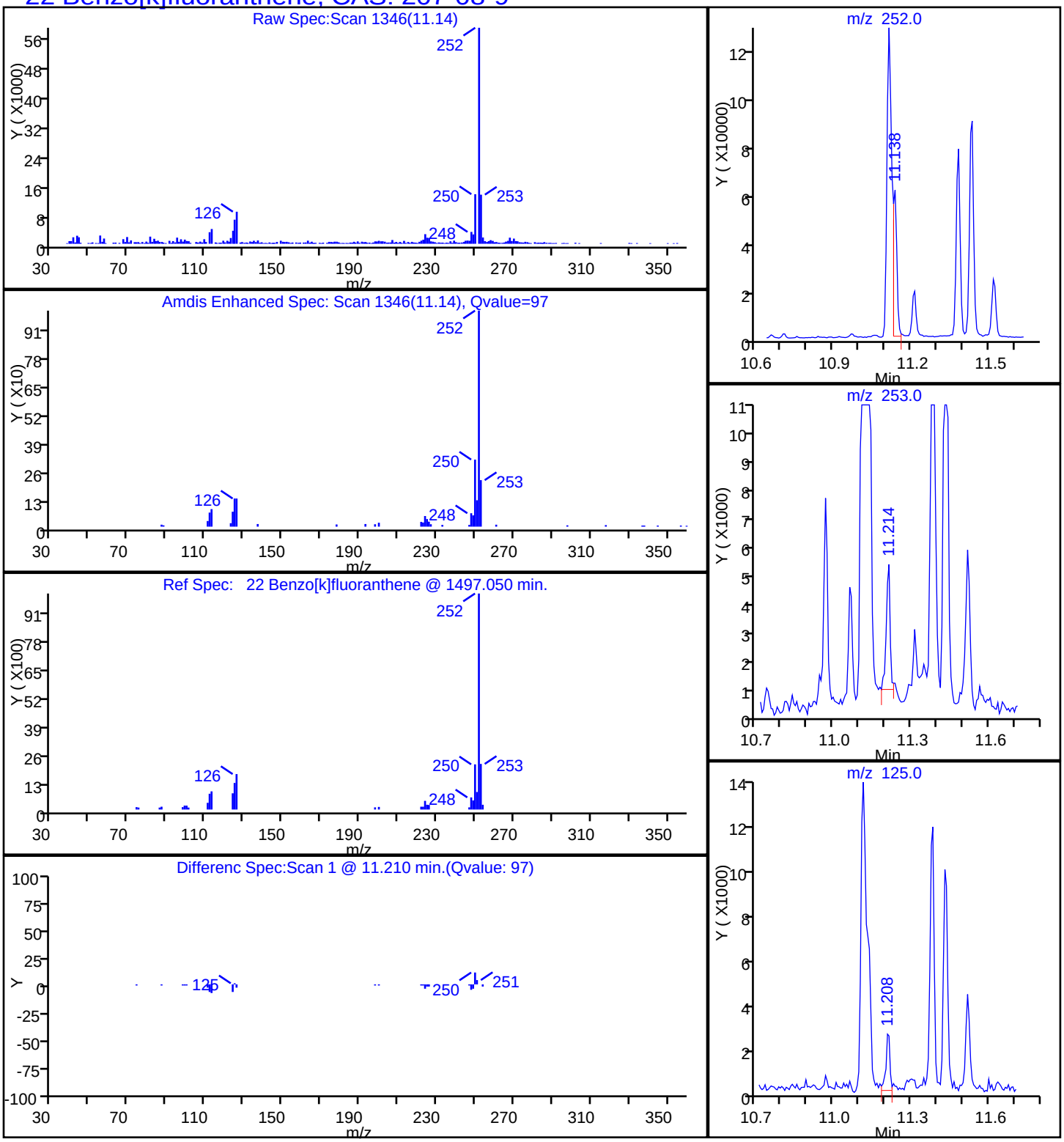


Report Date: 04-Nov-2014 09:15:33 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0310.D				
Injection Date:	03-Nov-2014 13:46:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-1-A	Lab Sample ID:	680-106803-1		
Client ID:	CV0971VV-CS6"				
Operator ID:	RM	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

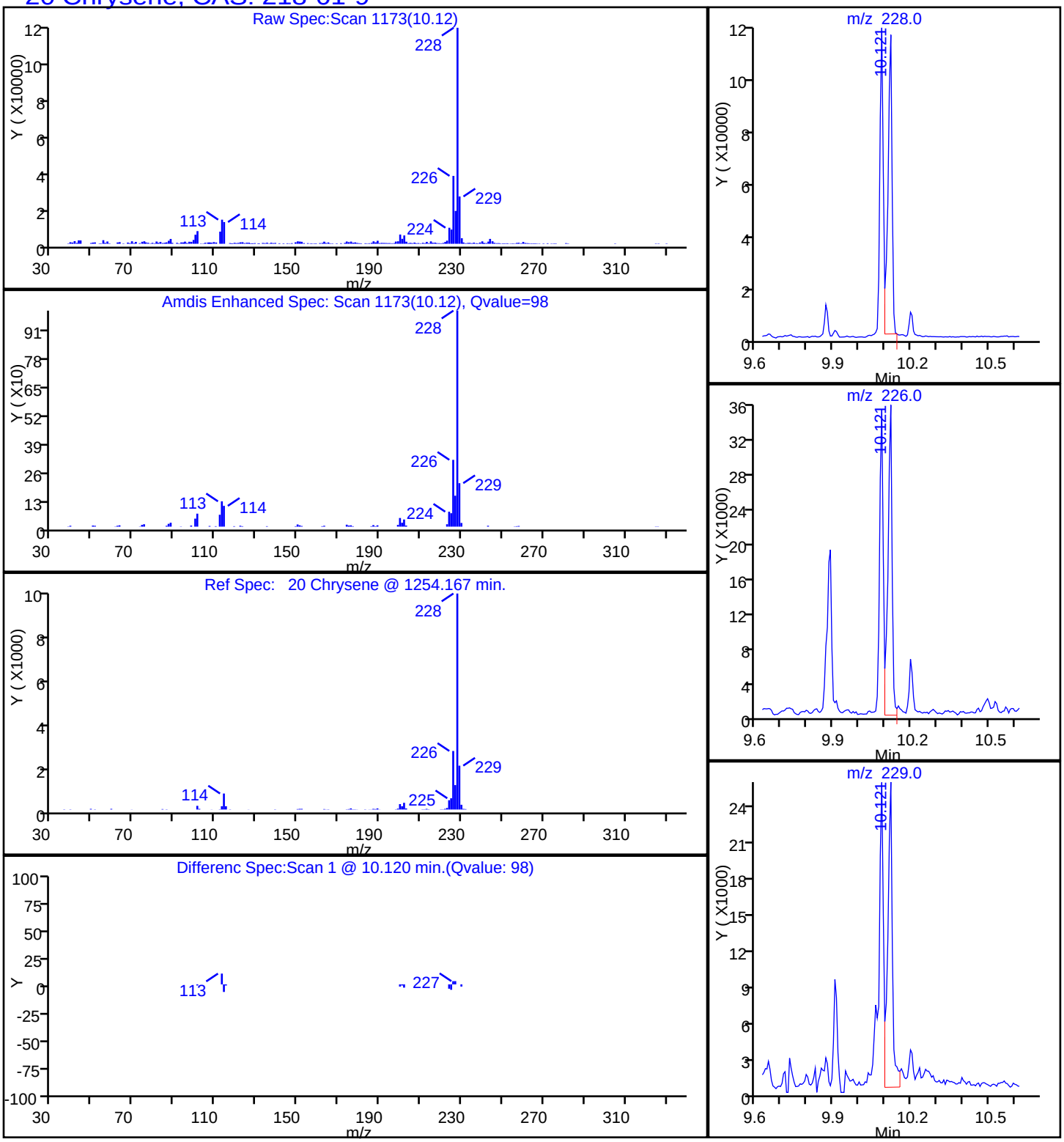


Report Date: 04-Nov-2014 09:15:33 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0310.D				
Injection Date:	03-Nov-2014 13:46:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-1-A	Lab Sample ID:	680-106803-1		
Client ID:	CV0971VV-CS6"				
Operator ID:	RM	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

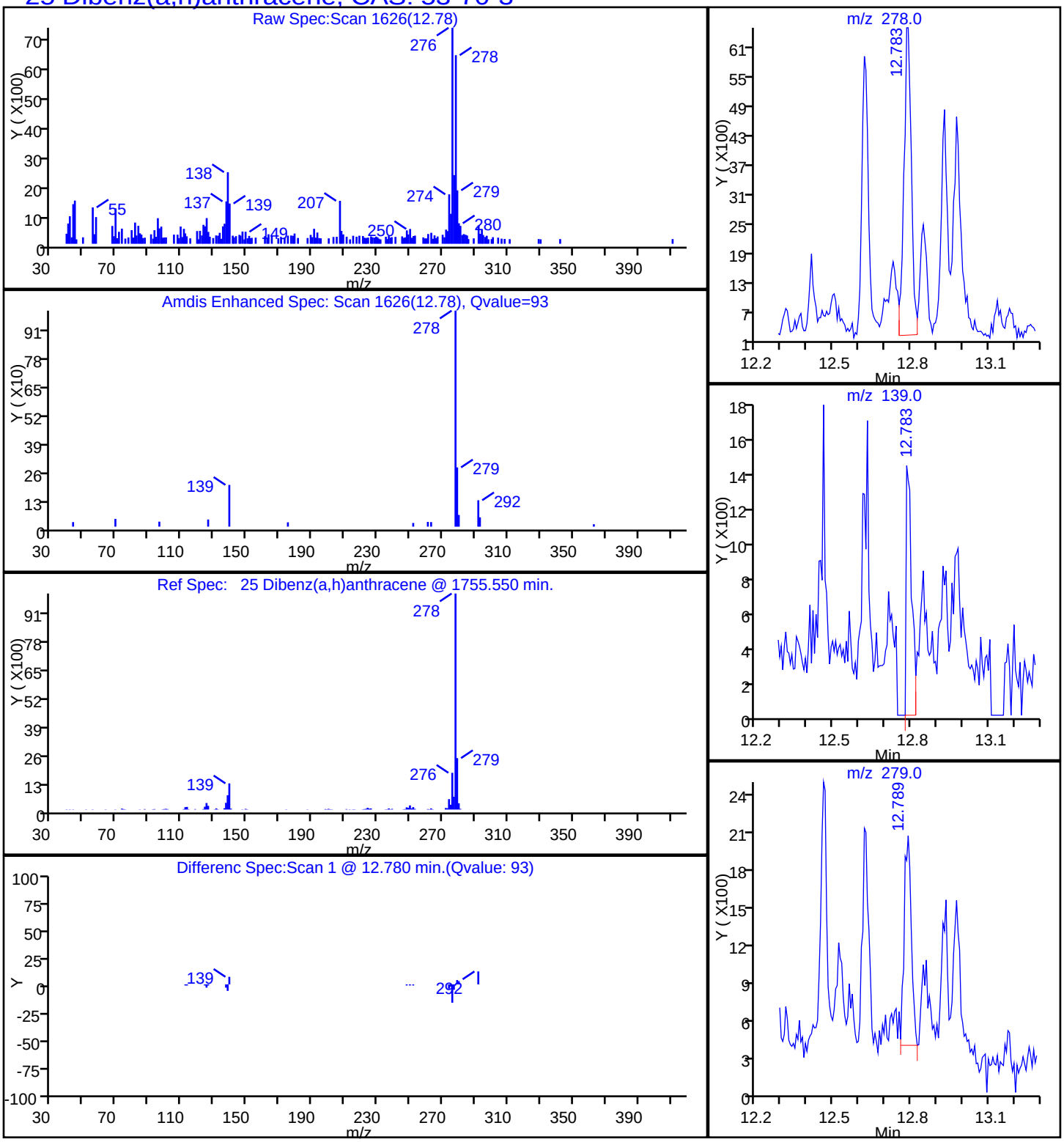


Report Date: 04-Nov-2014 09:15:33 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0310.D				
Injection Date:	03-Nov-2014 13:46:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-1-A	Lab Sample ID:	680-106803-1		
Client ID:	CV0971VV-CS6"				
Operator ID:	RM	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

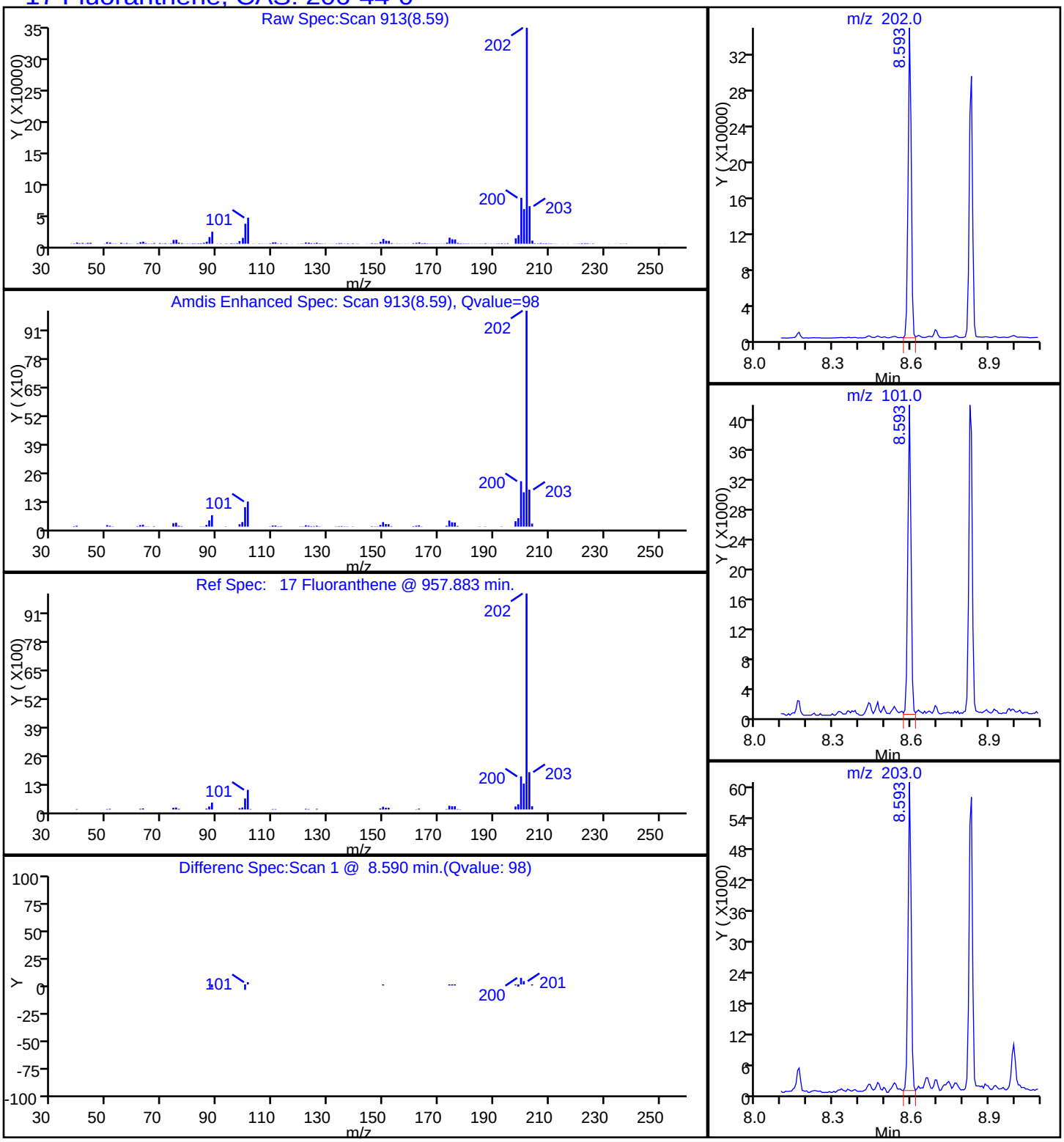


Report Date: 04-Nov-2014 09:15:33 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0310.D				
Injection Date:	03-Nov-2014 13:46:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-1-A	Lab Sample ID:	680-106803-1		
Client ID:	CV0971VV-CS6"				
Operator ID:	RM	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

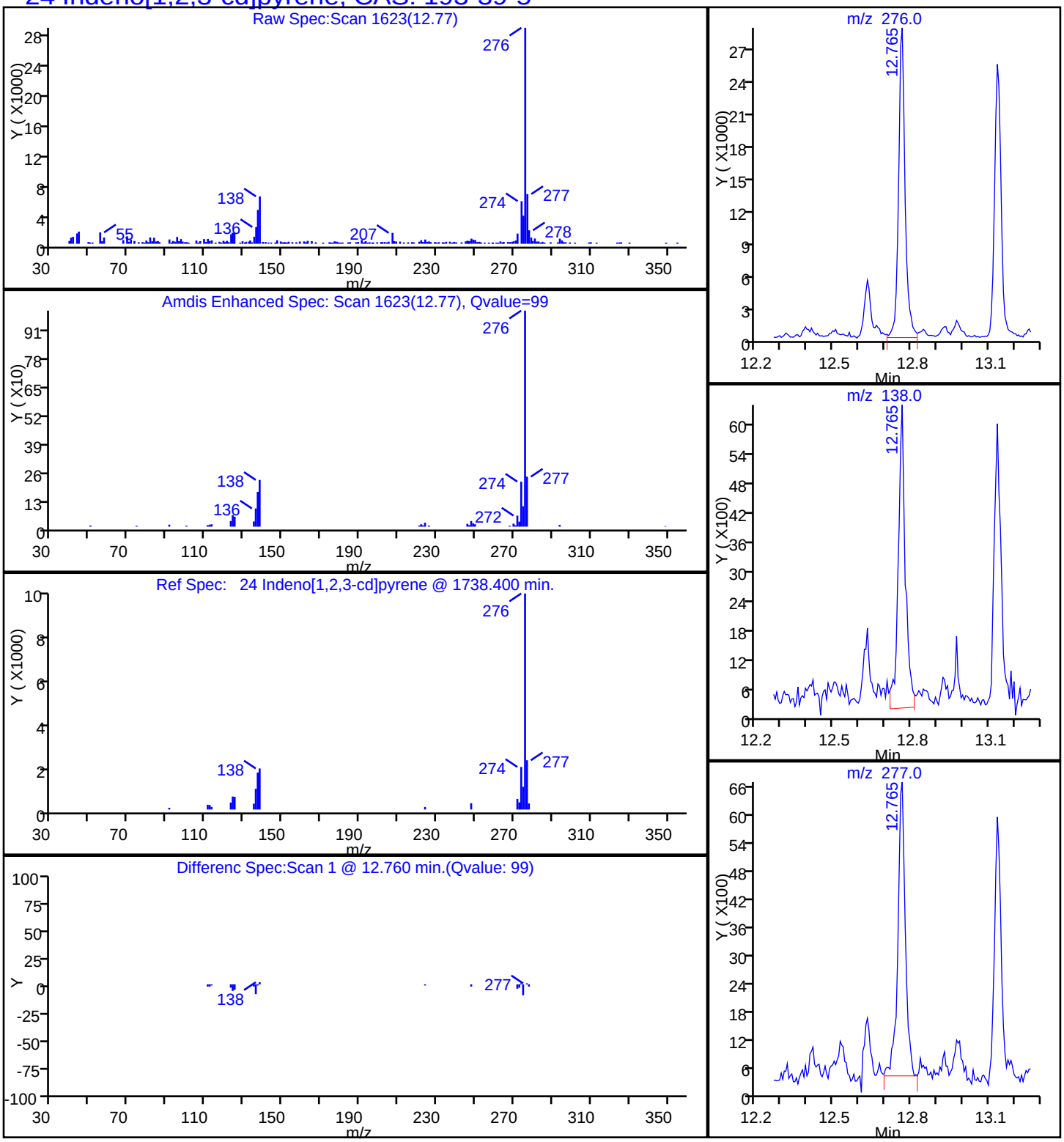


Report Date: 04-Nov-2014 09:15:33 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0310.D				
Injection Date:	03-Nov-2014 13:46:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-1-A	Lab Sample ID:	680-106803-1		
Client ID:	CV0971VV-CS6"				
Operator ID:	RM	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

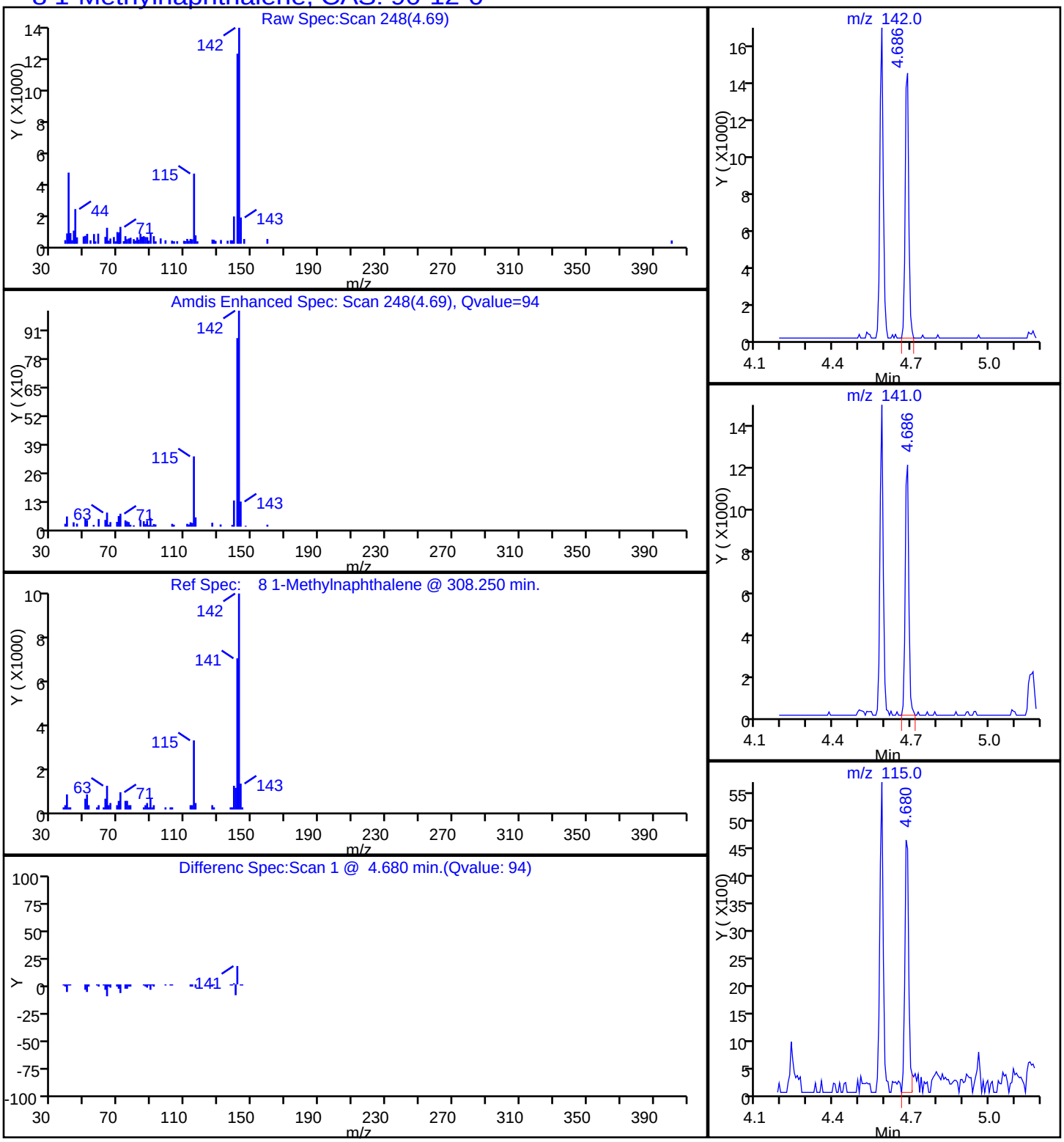


Report Date: 04-Nov-2014 09:15:33 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0310.D				
Injection Date:	03-Nov-2014 13:46:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-1-A	Lab Sample ID:	680-106803-1		
Client ID:	CV0971VV-CS6"				
Operator ID:	RM	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

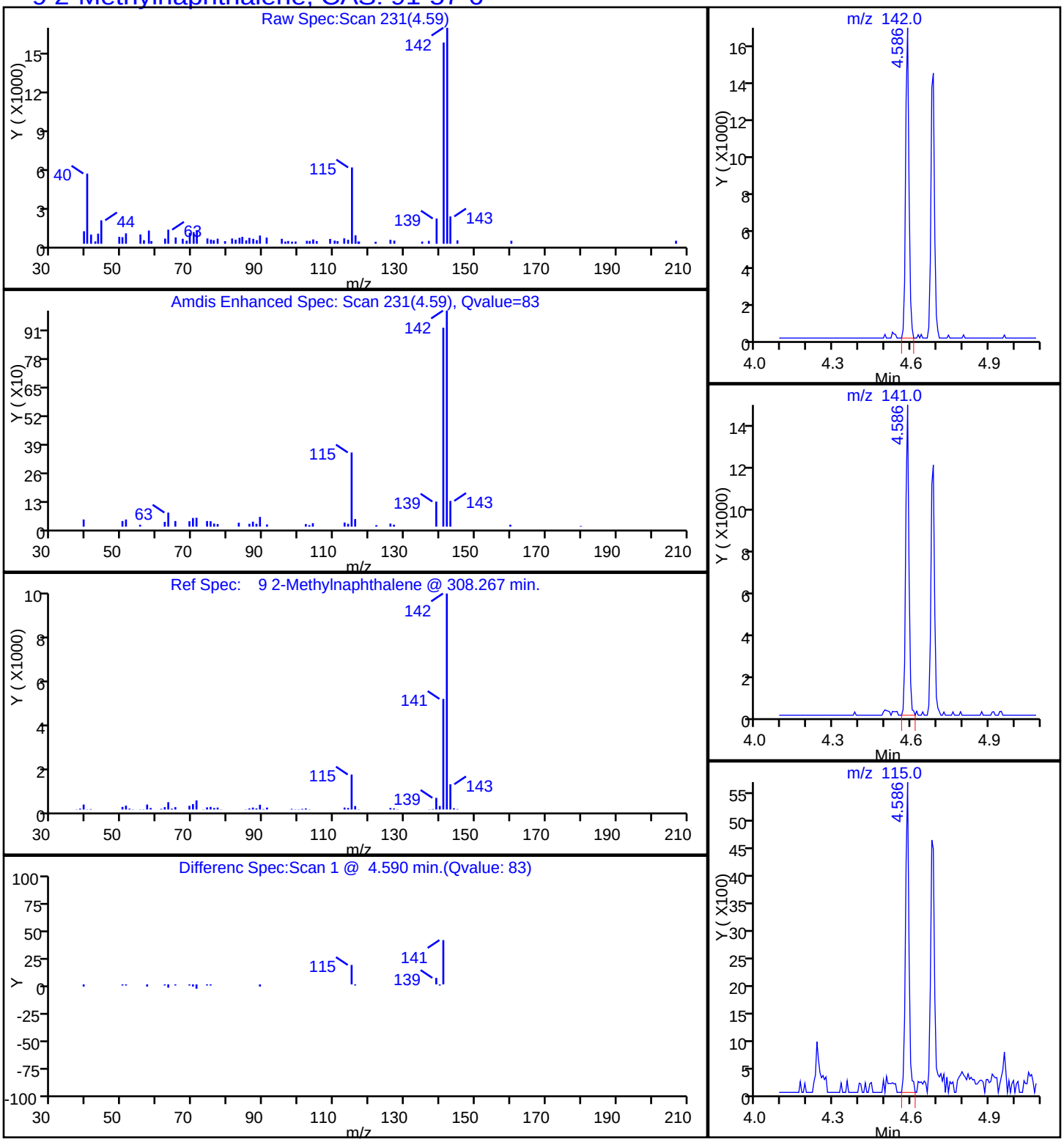


Report Date: 04-Nov-2014 09:15:32 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0310.D				
Injection Date:	03-Nov-2014 13:46:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-1-A	Lab Sample ID:	680-106803-1		
Client ID:	CV0971VV-CS6"				
Operator ID:	RM	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

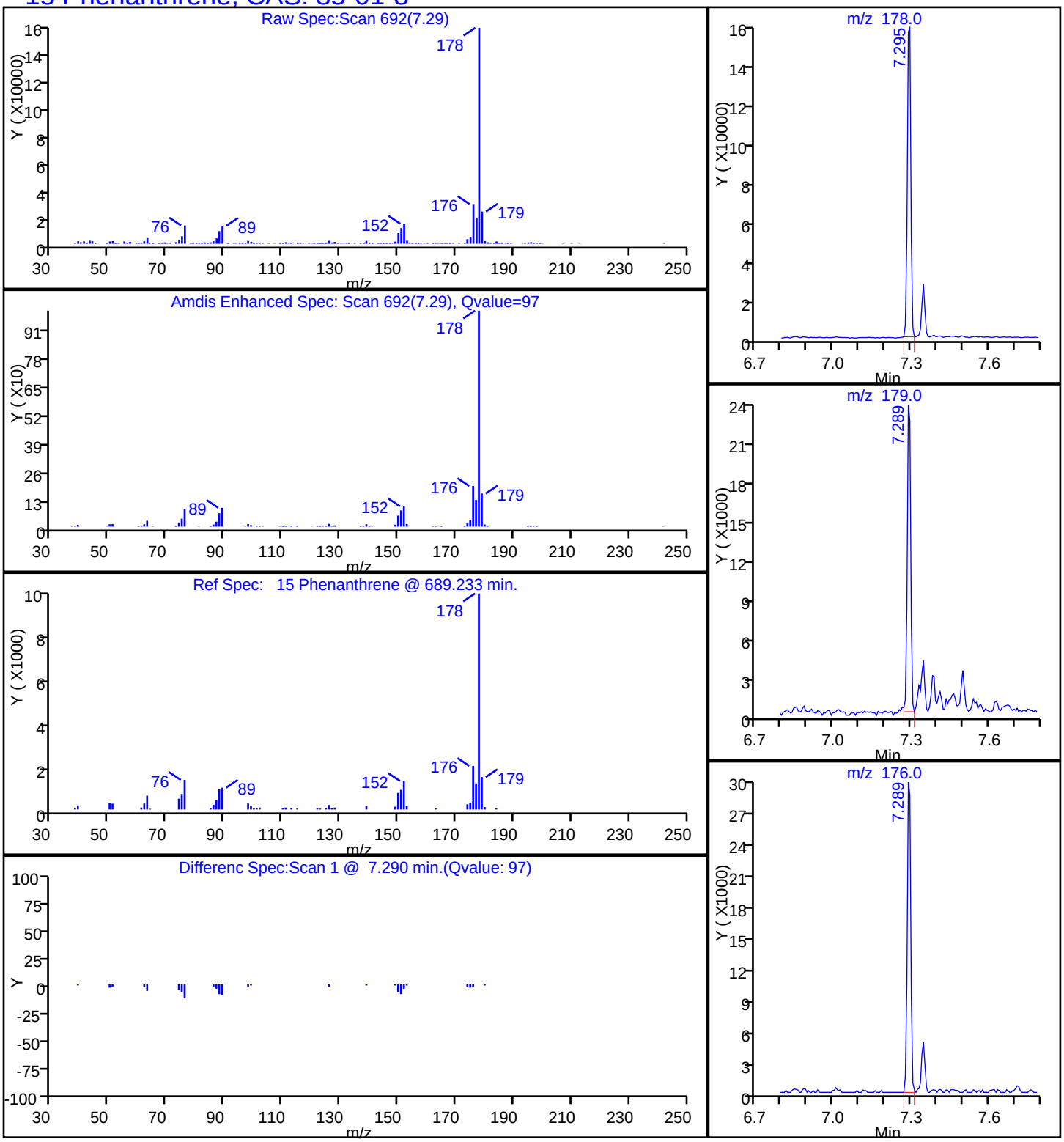


Report Date: 04-Nov-2014 09:15:33 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0310.D				
Injection Date:	03-Nov-2014 13:46:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-1-A	Lab Sample ID:	680-106803-1		
Client ID:	CV0971VV-CS6"				
Operator ID:	RM	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

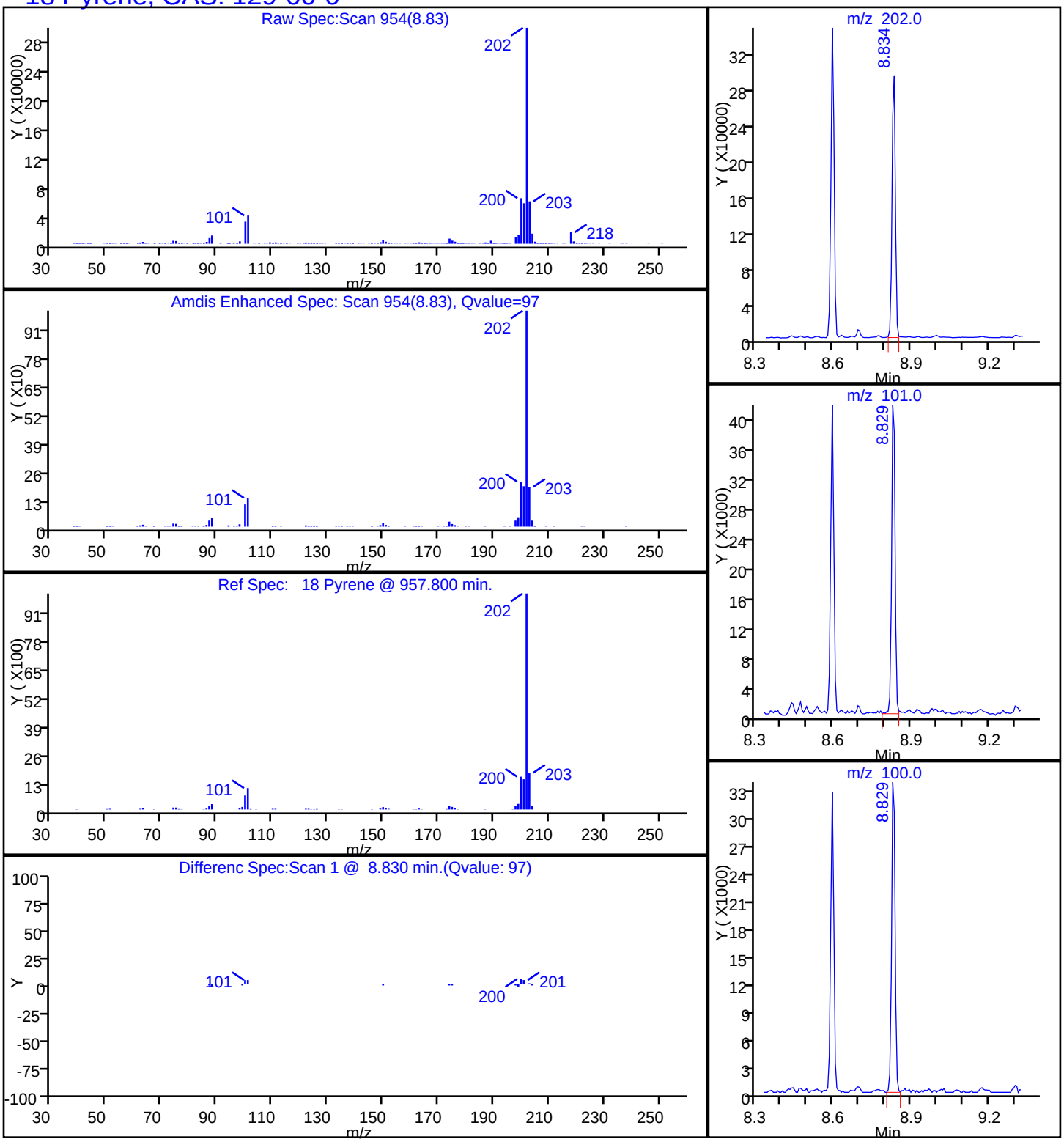


Report Date: 04-Nov-2014 09:15:33 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0310.D				
Injection Date:	03-Nov-2014 13:46:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-1-A	Lab Sample ID:	680-106803-1		
Client ID:	CV0971VV-CS6"				
Operator ID:	RM	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

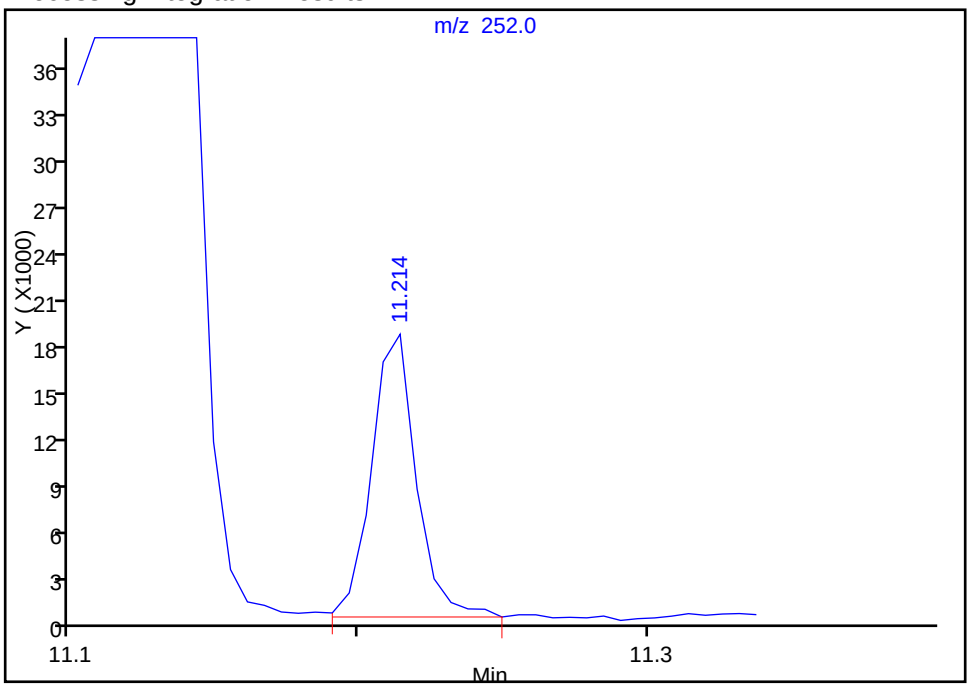
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0310.D				
Injection Date:	03-Nov-2014 13:46:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-1-A	Lab Sample ID:	680-106803-1		
Client ID:	CV0971VV-CS6"				
Operator ID:	RM	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

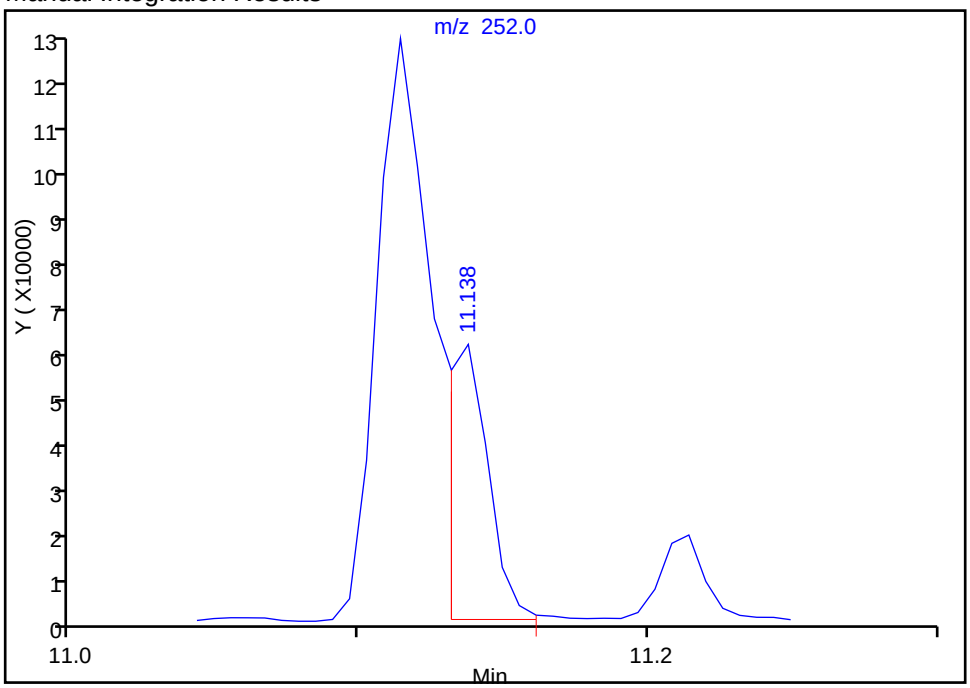
Processing Integration Results

RT: 11.21
Response: 19222
Amount: 0.158449



Manual Integration Results

RT: 11.14
Response: 57319
Amount: 0.472486



Reviewer: webbk, 03-Nov-2014 14:38:01
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971VV-CS12" | Lab Sample ID: 680-106803-2

Matrix: Solid | Lab File ID: 1KK0309.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/27/2014 15:00

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.02(g) | Date Analyzed: 11/03/2014 13:23

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

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

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

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	78	U	78	39
208-96-8	Acenaphthylene	78	U	78	39
120-12-7	Anthracene	78	U	78	39
56-55-3	Benzo[a]anthracene	110		78	39
50-32-8	Benzo[a]pyrene	120		78	14
205-99-2	Benzo[b]fluoranthene	190		78	39
191-24-2	Benzo[g,h,i]perylene	75	J	78	39
207-08-9	Benzo[k]fluoranthene	67	J	78	23
218-01-9	Chrysene	150		78	39
53-70-3	Dibenz(a,h)anthracene	78	U	78	39
206-44-0	Fluoranthene	210		78	39
86-73-7	Fluorene	78	U	78	39
193-39-5	Indeno[1,2,3-cd]pyrene	64	J	78	39
90-12-0	1-Methylnaphthalene	38	J	78	36
91-57-6	2-Methylnaphthalene	78	U	78	39
91-20-3	Naphthalene	78	U	78	39
85-01-8	Phenanthrene	130		78	28
129-00-0	Pyrene	170		78	39

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\20141103-14354.b\1KK0309.D				
Lims ID:	680-106803-B-2-A	Lab Sample ID:	680-106803-2		
Client ID:	CV0971VV-CS12"				
Sample Type:	Client				
Inject. Date:	03-Nov-2014 13:23:30	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	680-106803-B-2-A 1:10				
Misc. Info.:	680-0014354-009				
Operator ID:	RM	Instrument ID:	CMSK		
Method:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m				
Limit Group:	8270D_LL_PAH				
Last Update:	04-Nov-2014 09:15:09	Calib Date:	22-Oct-2014 16:17:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D				
Column 1 :	Restek RXi-5Sil MS (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: webbk		Date:	03-Nov-2014 14:37:15		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.893	3.893	0.000	99	373751	2.00	
* 2 Acenaphthene-d10	164	5.662	5.662	0.000	92	210696	2.00	
* 3 Phenanthrene-d10	188	7.266	7.266	0.000	98	300928	2.00	
* 4 Chrysene-d12	240	10.092	10.092	0.000	99	240163	2.00	
* 5 Perylene-d12	264	11.496	11.496	0.000	99	198934	2.00	
7 Naphthalene	128	3.911	3.911	0.000	98	12202	0.0591	
9 2-Methylnaphthalene	142	4.586	4.586	0.000	85	12327	0.0965	
8 1-Methylnaphthalene	142	4.686	4.680	0.006	92	11798	0.0976	
13 Dibenzofuran	168	5.885	5.879	0.006	99	8656	NC	
15 Phenanthrene	178	7.289	7.289	0.000	97	63250	0.3451	
16 Anthracene	178	7.348	7.348	0.000	81	6443	0.0374	7
17 Fluoranthene	202	8.594	8.594	0.000	97	100317	0.5468	
18 Pyrene	202	8.829	8.829	0.000	97	93581	0.4342	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	97	40178	0.2802	
20 Chrysene	228	10.115	10.115	0.000	99	53648	0.3963	
21 Benzo[b]fluoranthene	252	11.114	11.114	0.000	98	64106	0.4983	
22 Benzo[k]fluoranthene	252	11.138	11.138	0.000	98	22876	0.1718	M
23 Benzo[a]pyrene	252	11.432	11.437	-0.005	97	34266	0.3051	
24 Indeno[1,2,3-cd]pyrene	276	12.765	12.765	0.000	98	21512	0.1643	
26 Benzo[g,h,i]perylene	276	13.135	13.141	-0.006	97	22000	0.1930	

QC Flag Legend

Processing Flags
NC - Not Calibrated
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

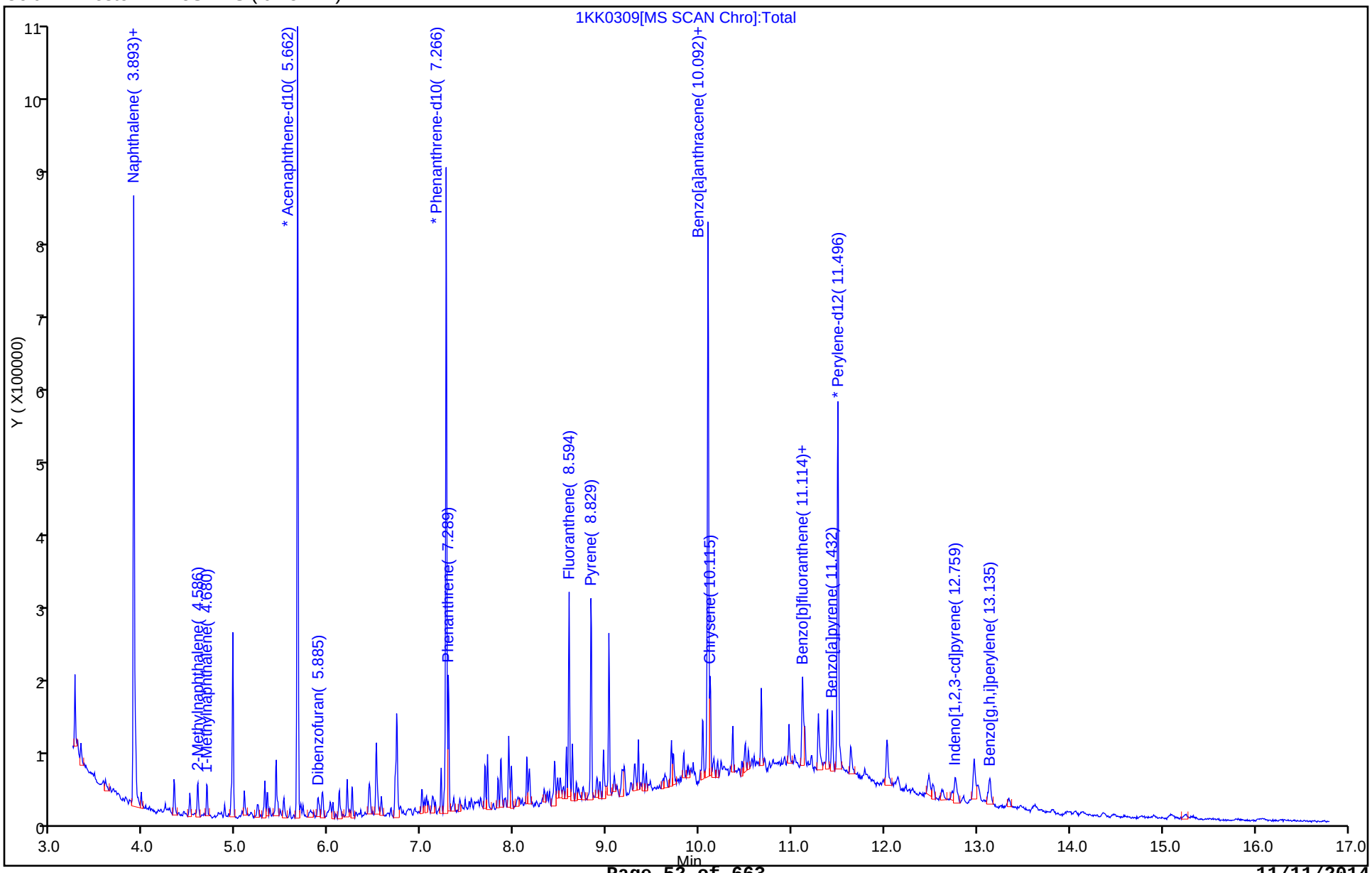
SM-LLISTD_00110 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 04-Nov-2014 09:15:34 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0309.D				
Injection Date:	03-Nov-2014 13:23:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-2-A	Lab Sample ID:	680-106803-2	Worklist Smp#:	9
Client ID:	CV0971VV-CS12"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	9
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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



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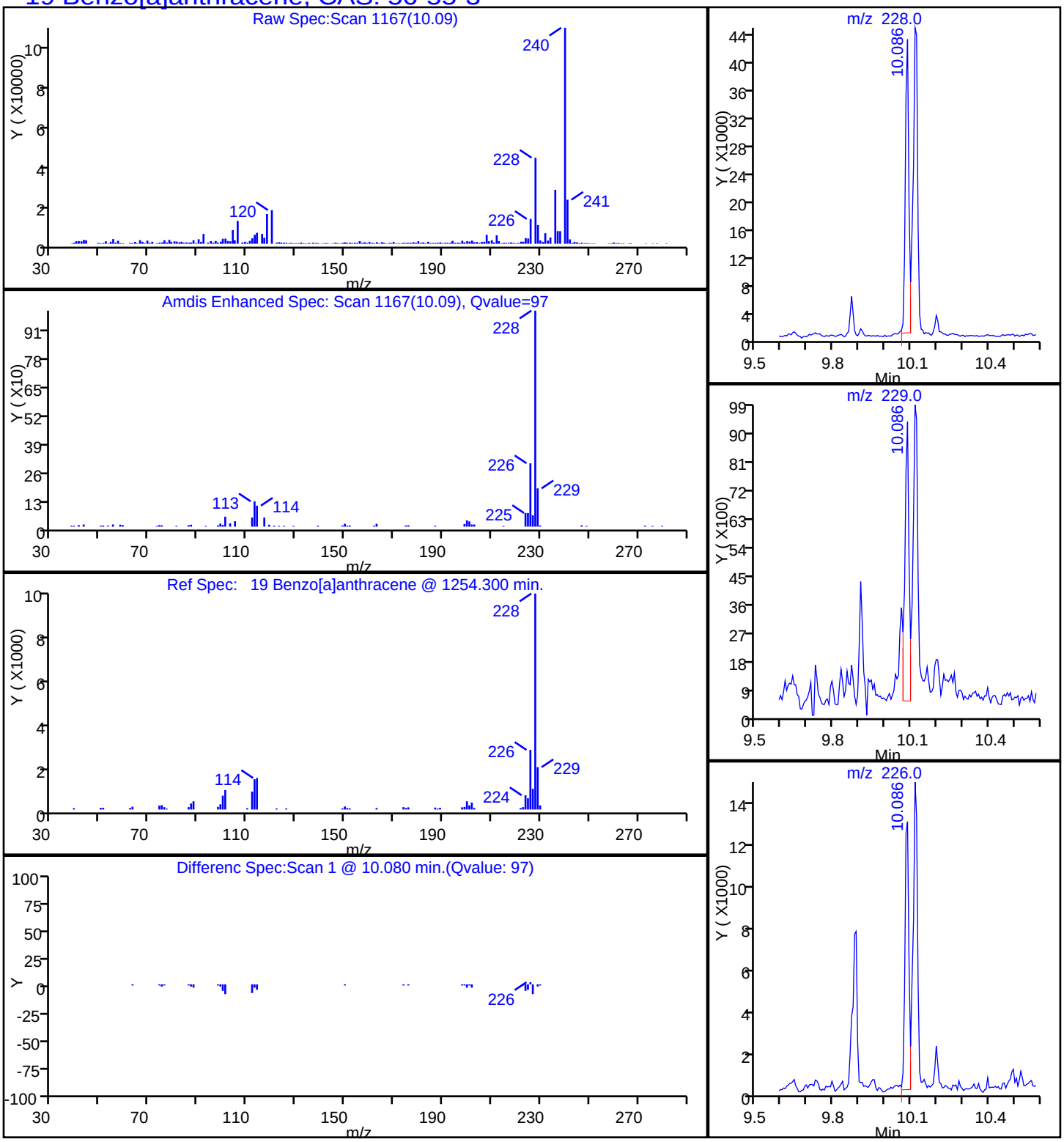
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0309.D				
Injection Date:	03-Nov-2014 13:23:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-2-A	Lab Sample ID:	680-106803-2		
Client ID:	CV0971VV-CS12"				
Operator ID:	RM	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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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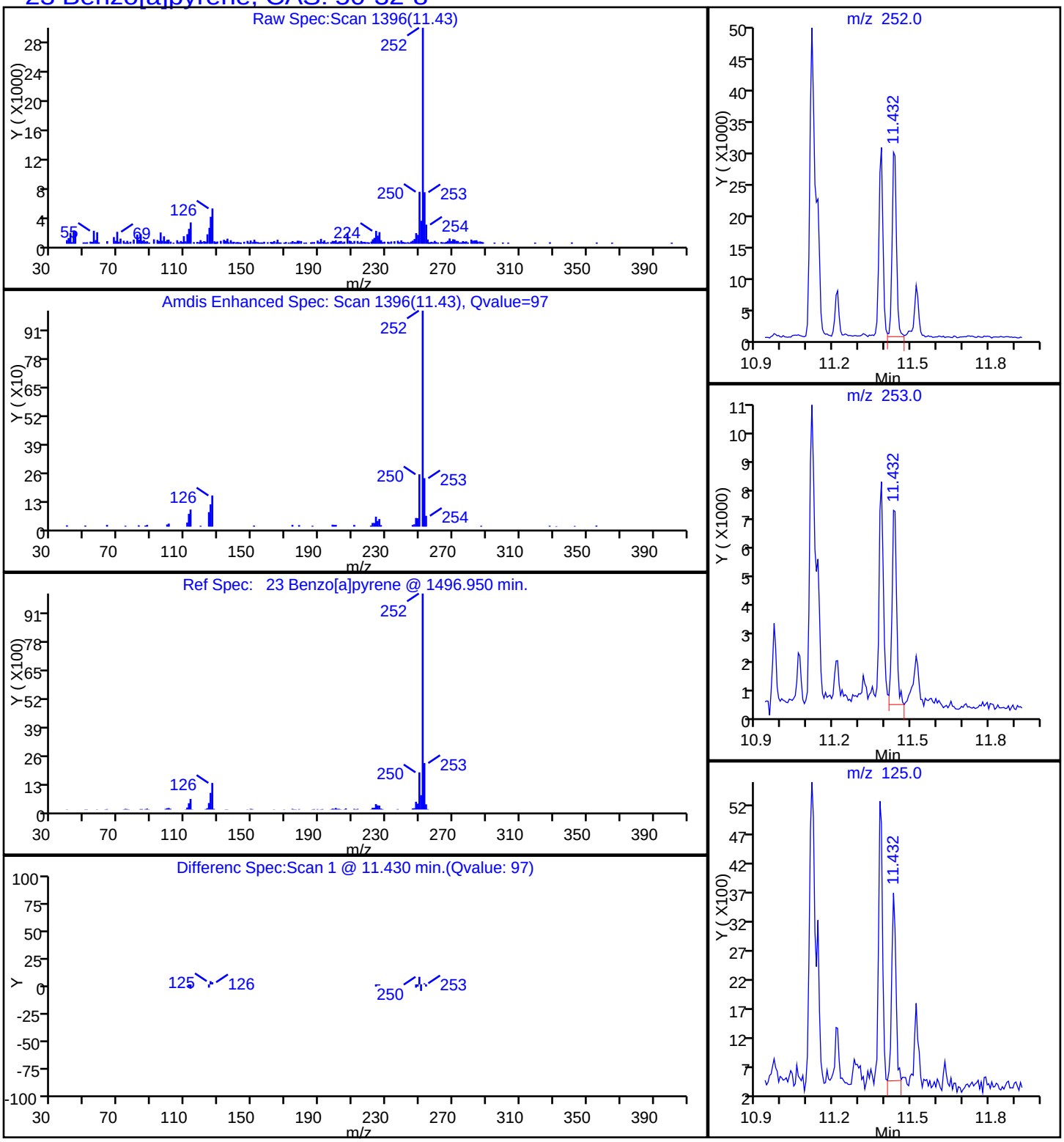
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0309.D				
Injection Date:	03-Nov-2014 13:23:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-2-A	Lab Sample ID:	680-106803-2		
Client ID:	CV0971VV-CS12"				
Operator ID:	RM	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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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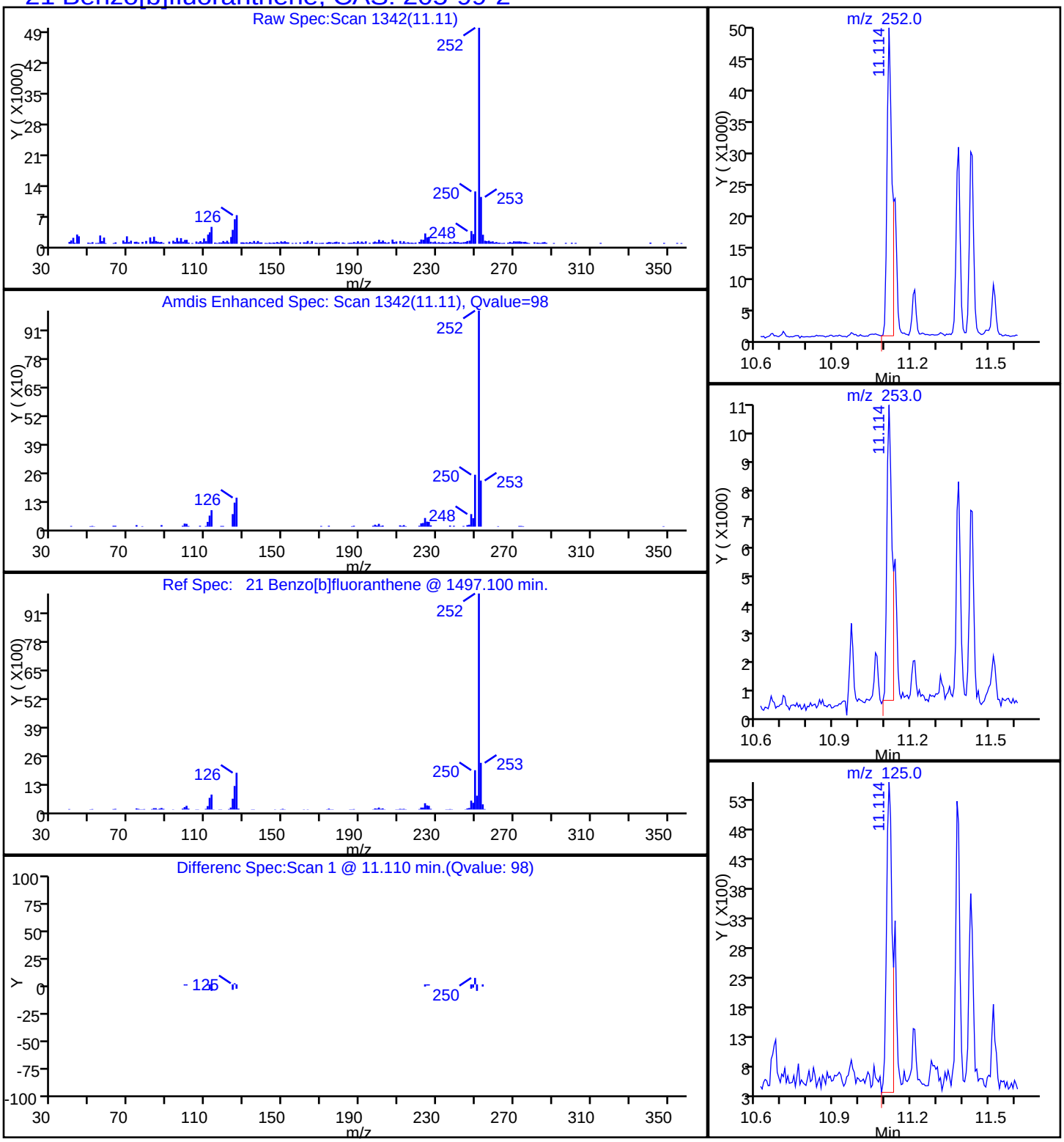
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0309.D				
Injection Date:	03-Nov-2014 13:23:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-2-A	Lab Sample ID:	680-106803-2		
Client ID:	CV0971VV-CS12"				
Operator ID:	RM	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

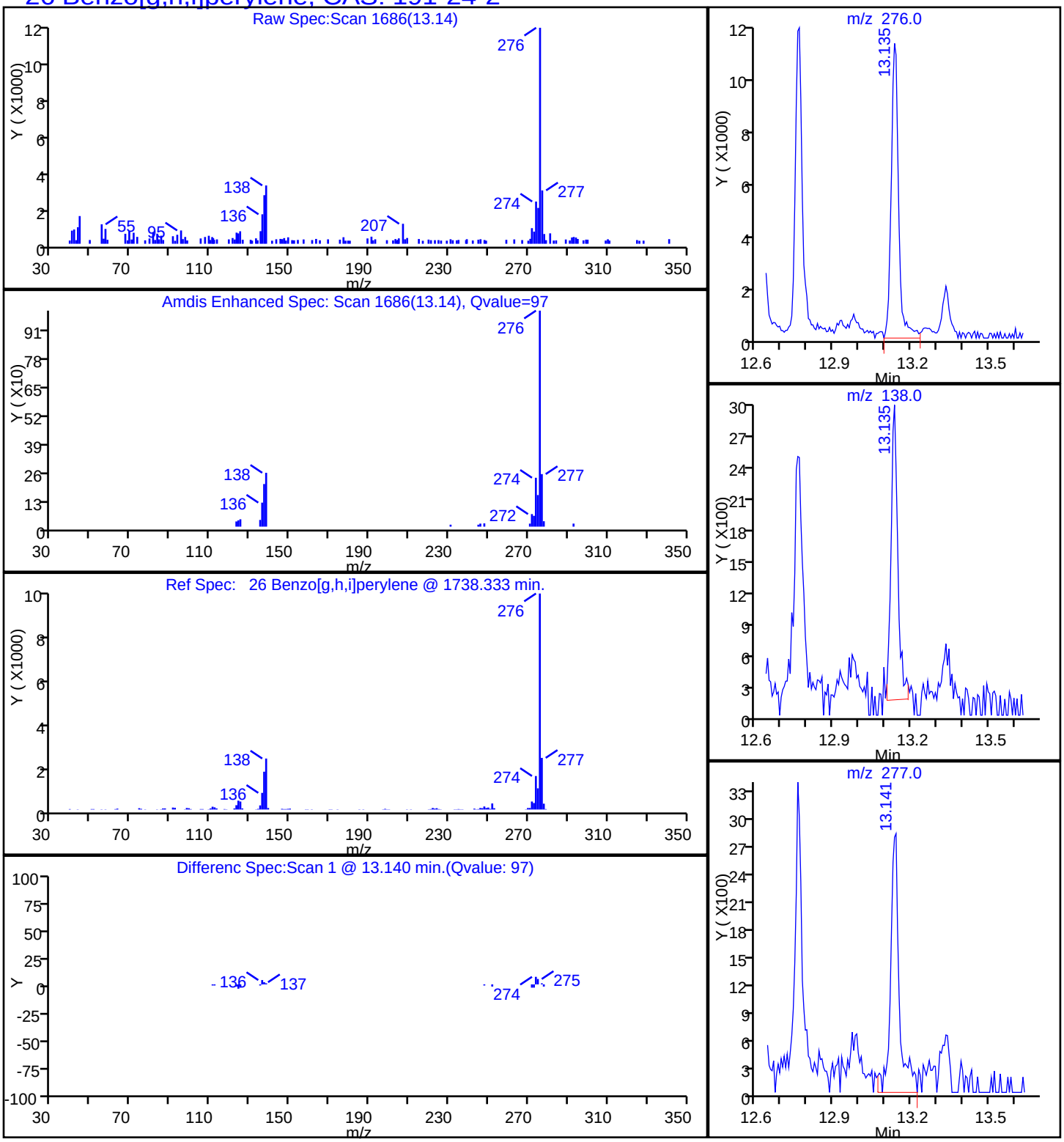


Report Date: 04-Nov-2014 09:15:34 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0309.D				
Injection Date:	03-Nov-2014 13:23:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-2-A	Lab Sample ID:	680-106803-2		
Client ID:	CV0971VV-CS12"				
Operator ID:	RM	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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



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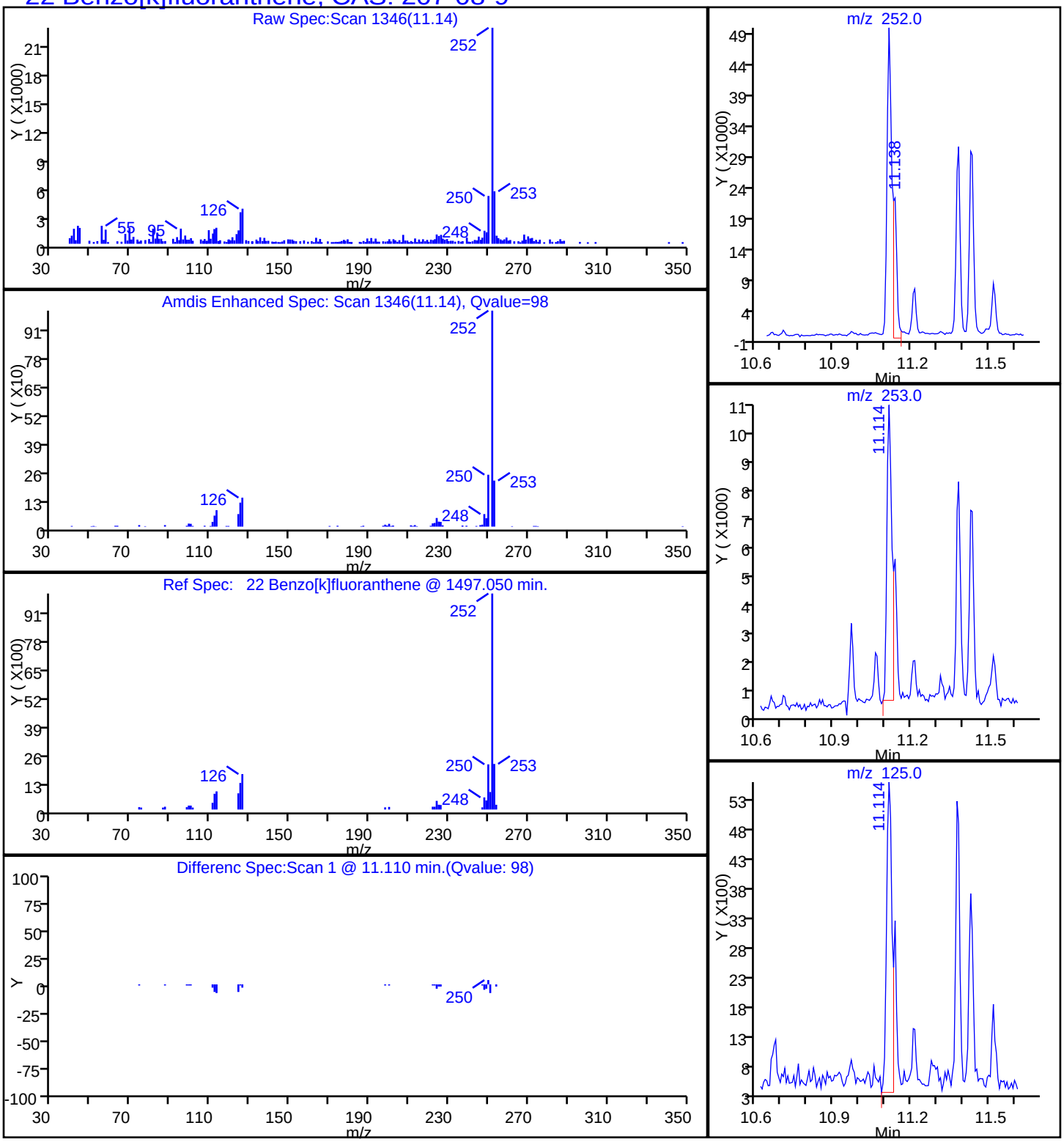
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0309.D				
Injection Date:	03-Nov-2014 13:23:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-2-A	Lab Sample ID:	680-106803-2		
Client ID:	CV0971VV-CS12"				
Operator ID:	RM	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

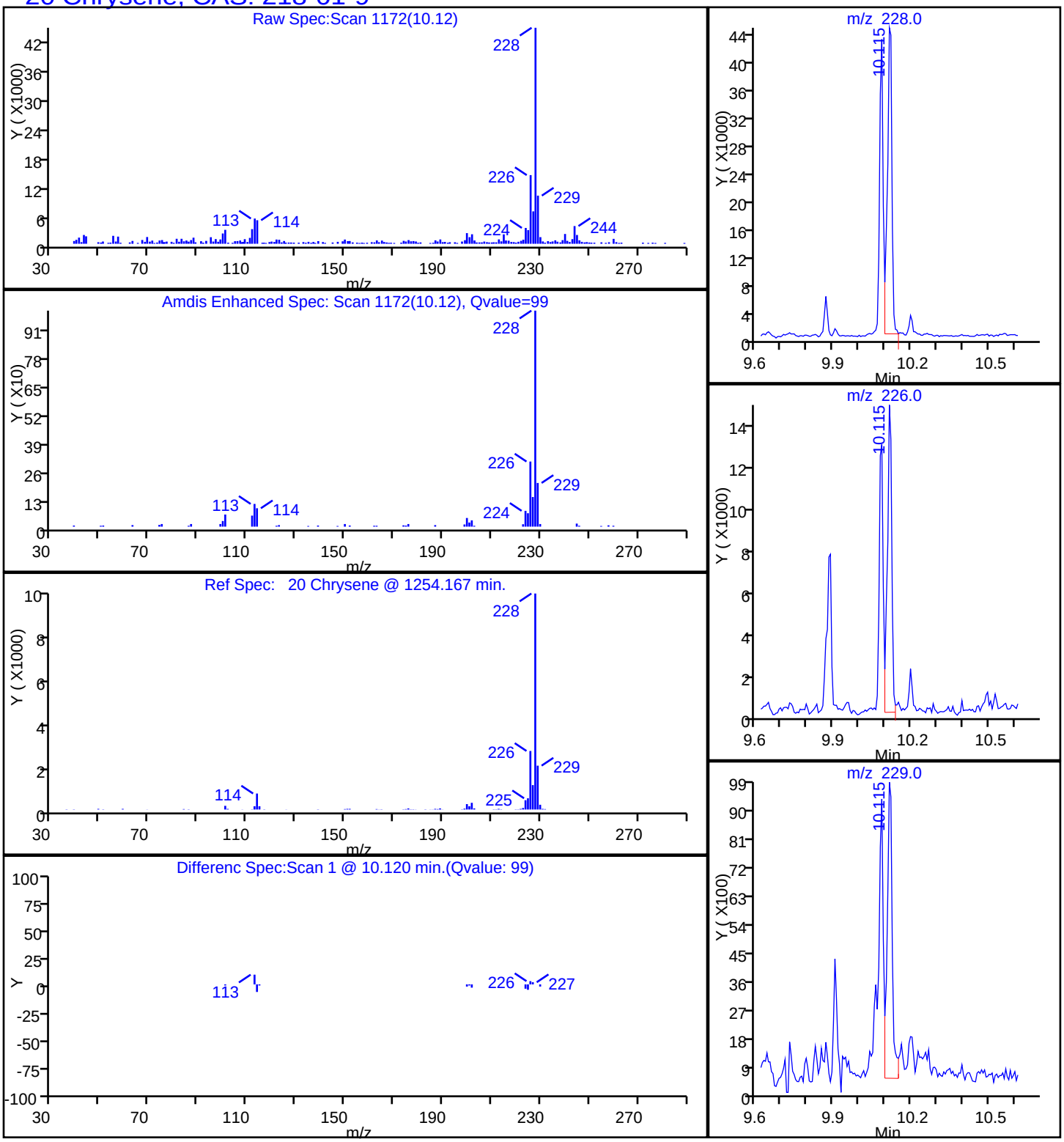


Report Date: 04-Nov-2014 09:15:34 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0309.D				
Injection Date:	03-Nov-2014 13:23:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-2-A	Lab Sample ID:	680-106803-2		
Client ID:	CV0971VV-CS12"				
Operator ID:	RM	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

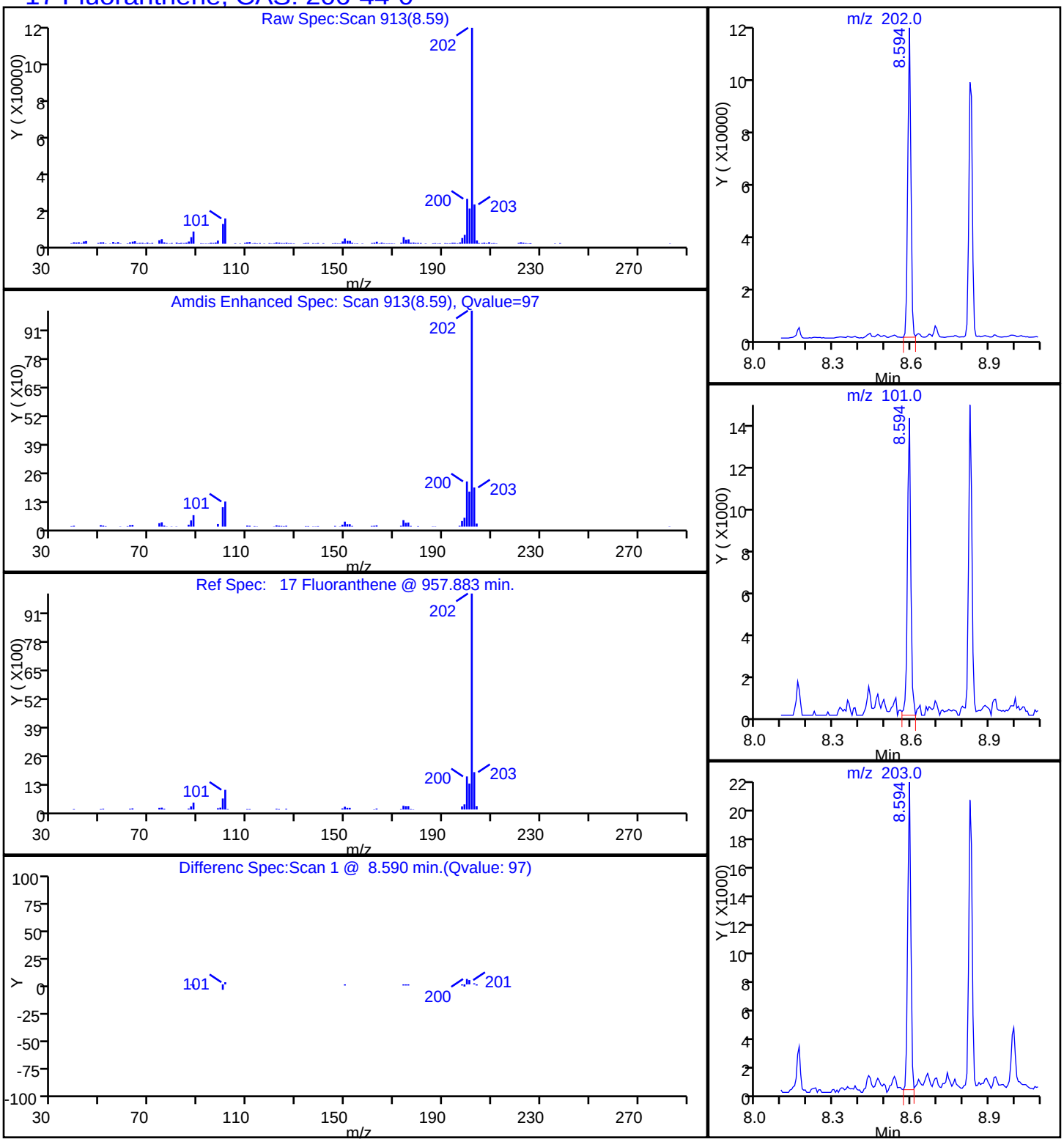


Report Date: 04-Nov-2014 09:15:34 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0309.D				
Injection Date:	03-Nov-2014 13:23:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-2-A	Lab Sample ID:	680-106803-2		
Client ID:	CV0971VV-CS12"				
Operator ID:	RM	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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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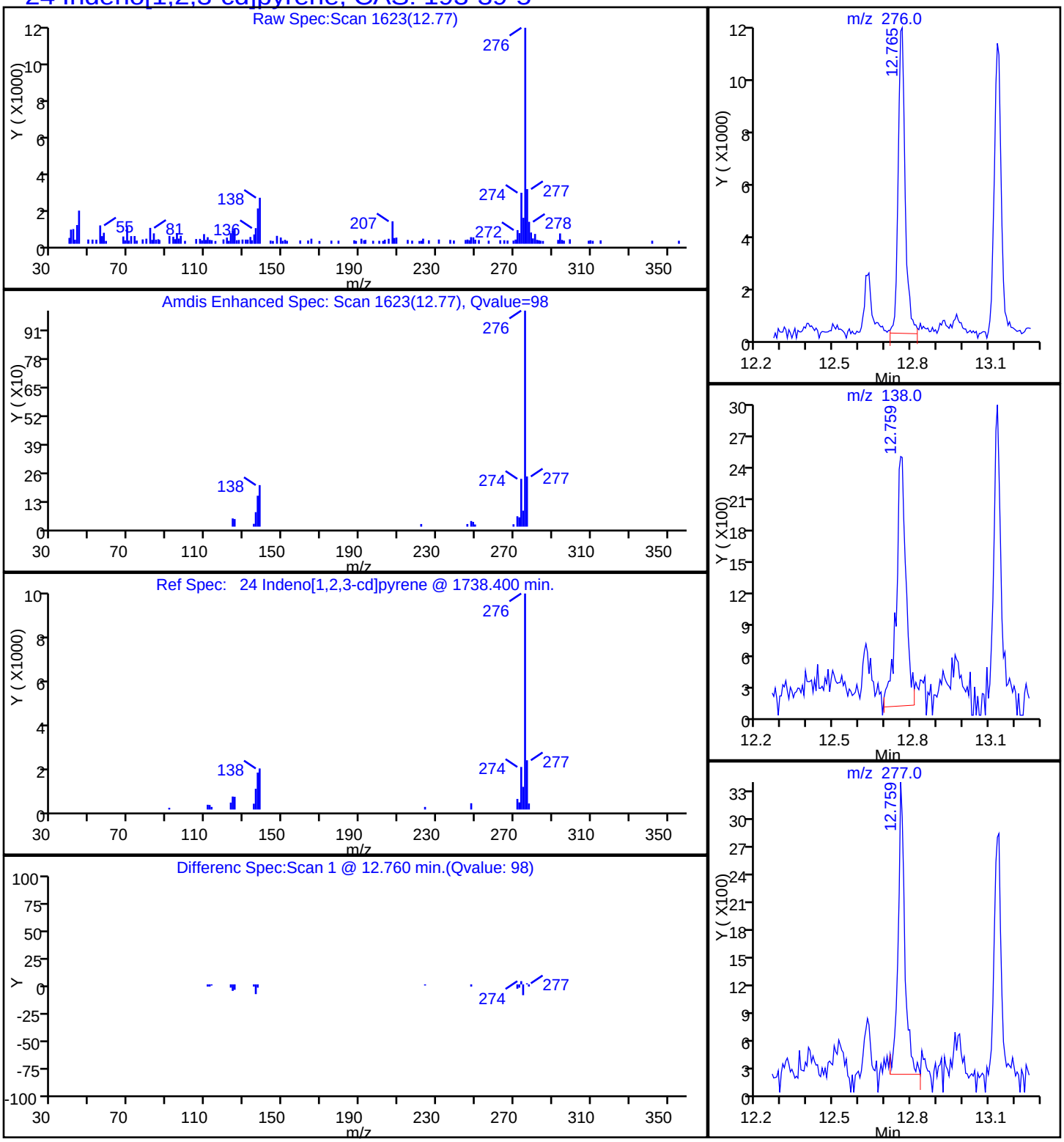
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0309.D				
Injection Date:	03-Nov-2014 13:23:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-2-A	Lab Sample ID:	680-106803-2		
Client ID:	CV0971VV-CS12"				
Operator ID:	RM	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

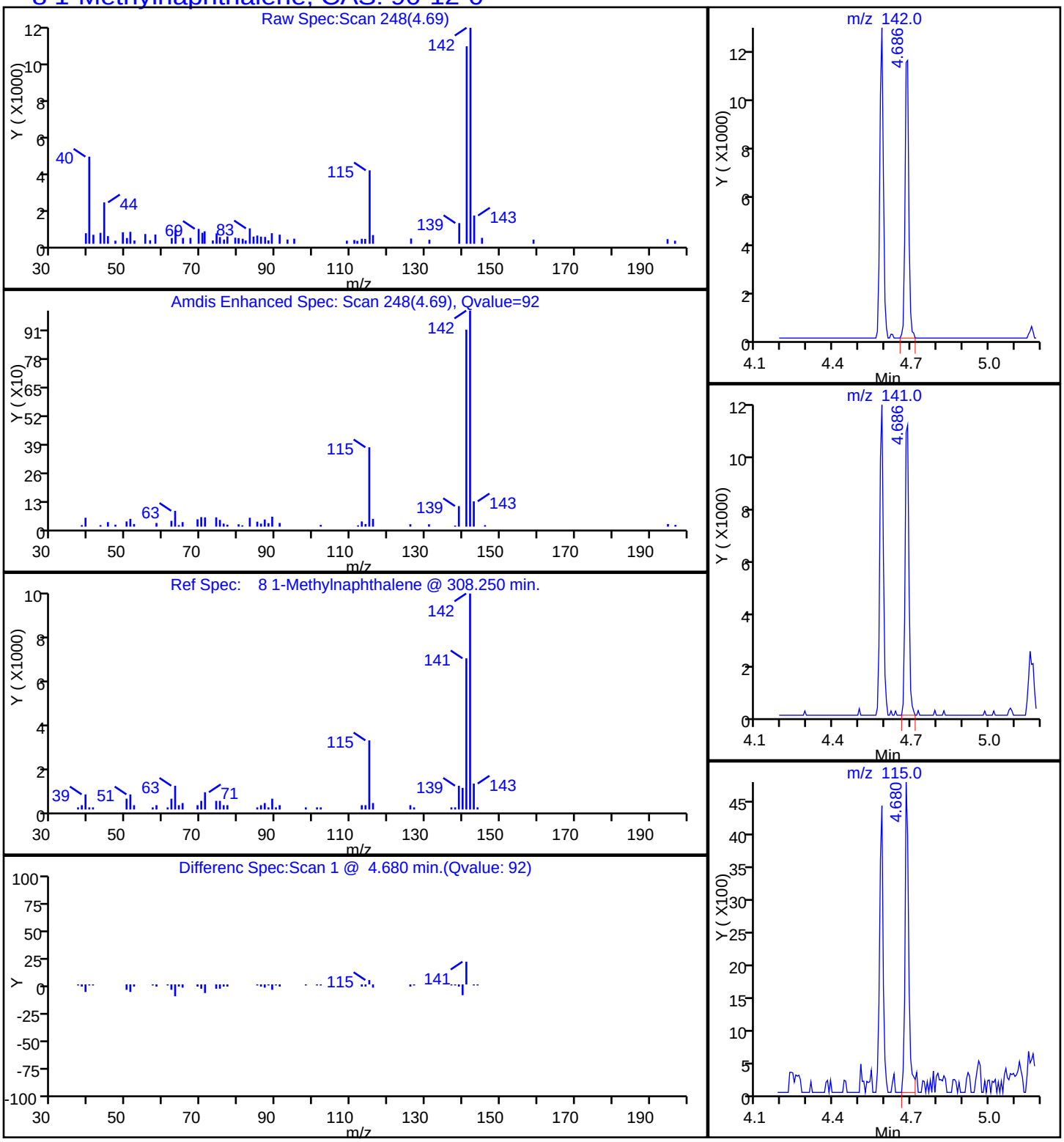


Report Date: 04-Nov-2014 09:15:34 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0309.D				
Injection Date:	03-Nov-2014 13:23:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-2-A	Lab Sample ID:	680-106803-2		
Client ID:	CV0971VV-CS12"				
Operator ID:	RM	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

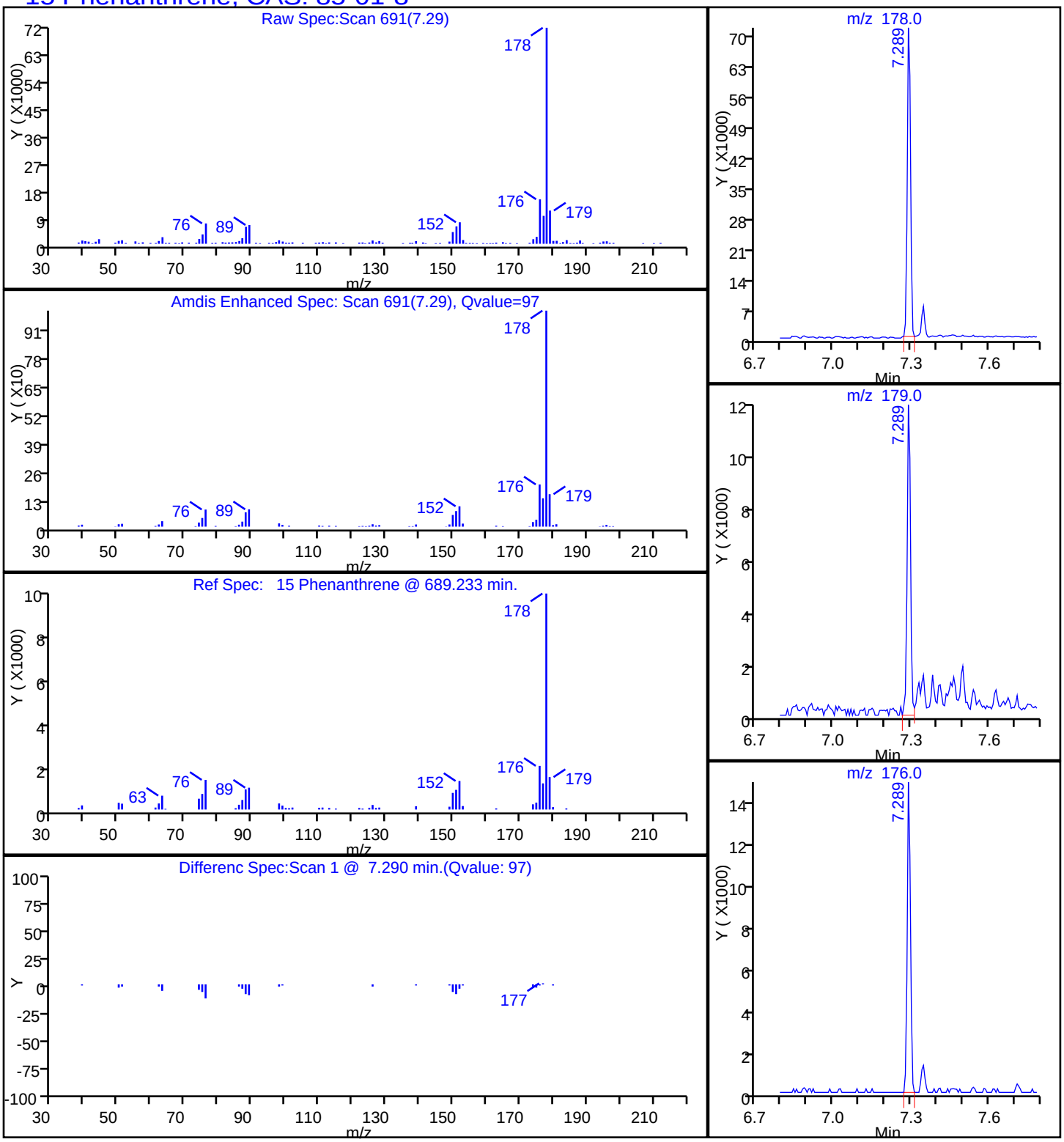


Report Date: 04-Nov-2014 09:15:34 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0309.D				
Injection Date:	03-Nov-2014 13:23:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-2-A	Lab Sample ID:	680-106803-2		
Client ID:	CV0971VV-CS12"				
Operator ID:	RM	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

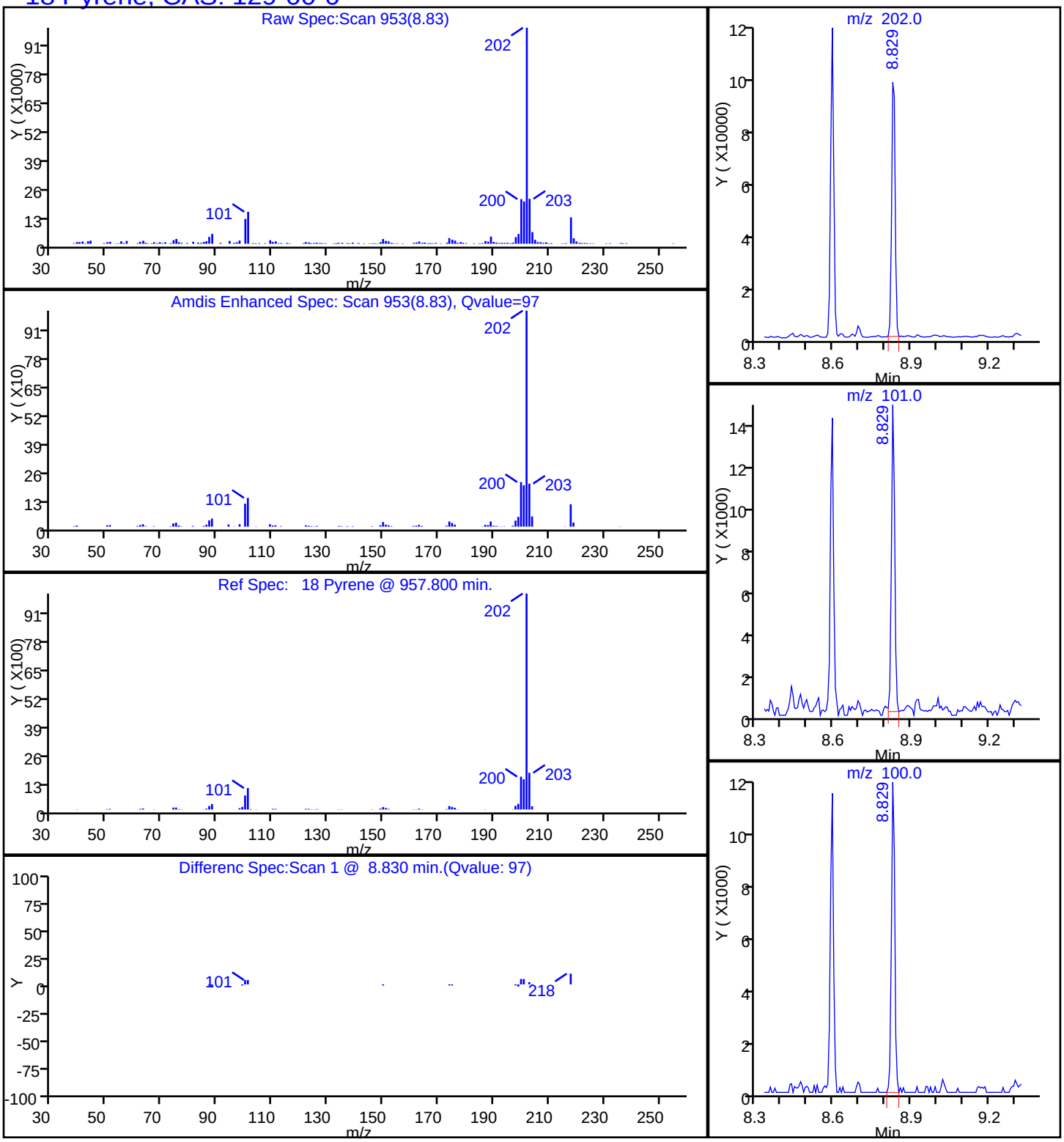


Report Date: 04-Nov-2014 09:15:34 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0309.D				
Injection Date:	03-Nov-2014 13:23:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-2-A	Lab Sample ID:	680-106803-2		
Client ID:	CV0971VV-CS12"				
Operator ID:	RM	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

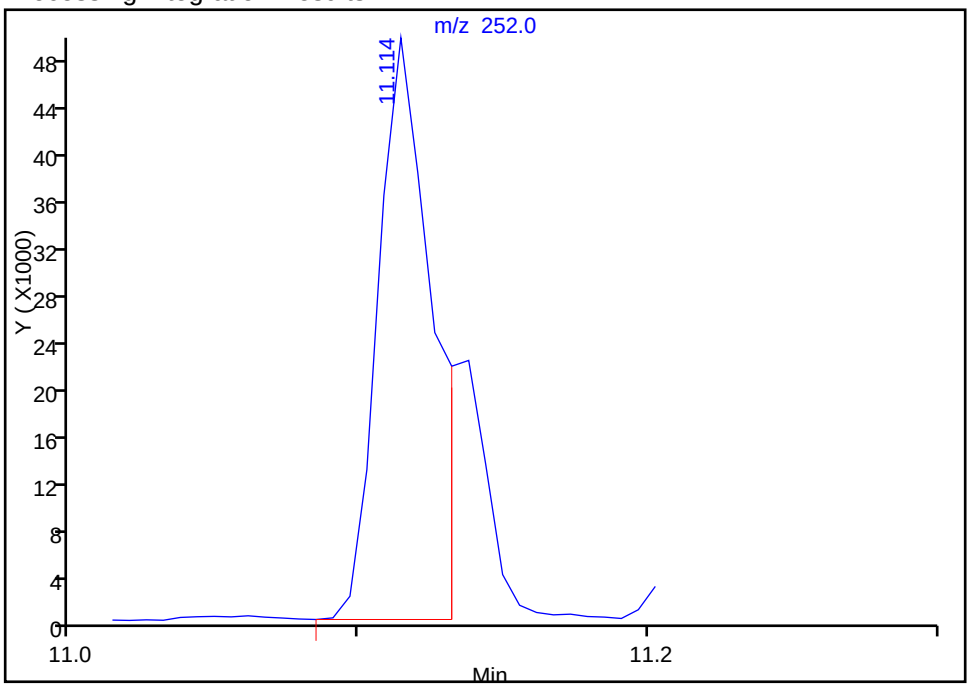
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0309.D				
Injection Date:	03-Nov-2014 13:23:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-2-A	Lab Sample ID:	680-106803-2		
Client ID:	CV0971VV-CS12"				
Operator ID:	RM	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

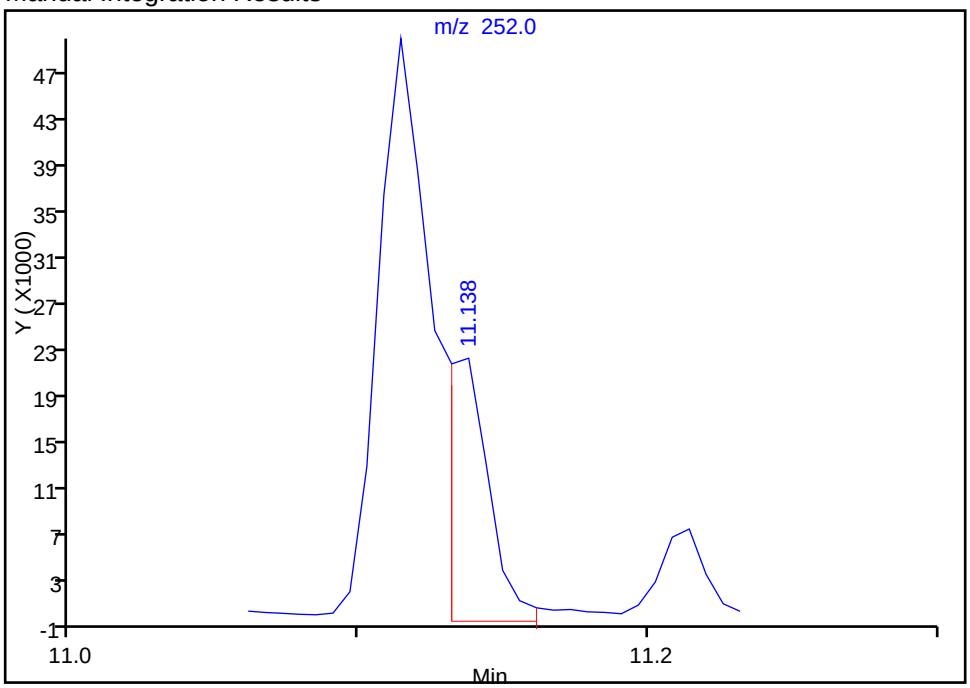
Processing Integration Results

RT: 11.11
Response: 64106
Amount: 0.481418



Manual Integration Results

RT: 11.14
Response: 22876
Amount: 0.171792



Reviewer: webbk, 03-Nov-2014 14:37:15
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971VV-CS18" | Lab Sample ID: 680-106803-3

Matrix: Solid | Lab File ID: 1KK0311.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/27/2014 15:15

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.05(g) | Date Analyzed: 11/03/2014 14:09

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

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

% Moisture: 14.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	78	U	78	39
208-96-8	Acenaphthylene	78	U	78	39
120-12-7	Anthracene	78	U	78	39
56-55-3	Benzo[a]anthracene	150		78	39
50-32-8	Benzo[a]pyrene	140		78	14
205-99-2	Benzo[b]fluoranthene	240		78	39
191-24-2	Benzo[g,h,i]perylene	78		78	39
207-08-9	Benzo[k]fluoranthene	78		78	23
218-01-9	Chrysene	210		78	39
53-70-3	Dibenz(a,h)anthracene	78	U	78	39
206-44-0	Fluoranthene	250		78	39
86-73-7	Fluorene	78	U	78	39
193-39-5	Indeno[1,2,3-cd]pyrene	65	J	78	39
90-12-0	1-Methylnaphthalene	46	J	78	36
91-57-6	2-Methylnaphthalene	45	J	78	39
91-20-3	Naphthalene	78	U	78	39
85-01-8	Phenanthrene	170		78	28
129-00-0	Pyrene	220		78	39

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\20141103-14354.b\1KK0311.D
Lims ID: 680-106803-B-3-A Lab Sample ID: 680-106803-3
Client ID: CV0971VV-CS18"
Sample Type: Client
Inject. Date: 03-Nov-2014 14:09:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 680-106803-B-3-A 1:10
Misc. Info.: 680-0014354-011
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 04-Nov-2014 09:15:09 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 03-Nov-2014 14:38:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.893	3.893	0.000	99	414752	2.00	
* 2 Acenaphthene-d10	164	5.662	5.662	0.000	91	246586	2.00	
* 3 Phenanthrene-d10	188	7.266	7.266	0.000	98	365464	2.00	
* 4 Chrysene-d12	240	10.098	10.092	0.006	99	260143	2.00	
* 5 Perylene-d12	264	11.496	11.496	0.000	99	209310	2.00	
7 Naphthalene	128	3.916	3.911	0.005	98	18539	0.0809	
9 2-Methylnaphthalene	142	4.586	4.586	0.000	87	16236	0.1145	
8 1-Methylnaphthalene	142	4.686	4.680	0.006	92	15704	0.1170	
15 Phenanthrene	178	7.295	7.289	0.006	97	96610	0.4340	
16 Anthracene	178	7.348	7.348	0.000	97	12608	0.0602	
17 Fluoranthene	202	8.593	8.594	-0.001	98	145375	0.6525	
18 Pyrene	202	8.834	8.829	0.005	97	129733	0.5557	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	97	58029	0.3736	
20 Chrysene	228	10.121	10.115	0.006	98	78572	0.5359	
21 Benzo[b]fluoranthene	252	11.114	11.114	0.000	98	82623	0.6104	
22 Benzo[k]fluoranthene	252	11.138	11.138	0.000	98	28124	0.2007	M
23 Benzo[a]pyrene	252	11.437	11.437	0.000	97	42716	0.3615	
24 Indeno[1,2,3-cd]pyrene	276	12.765	12.765	0.000	99	23578	0.1663	
26 Benzo[g,h,i]perylene	276	13.141	13.141	0.000	98	24046	0.2005	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

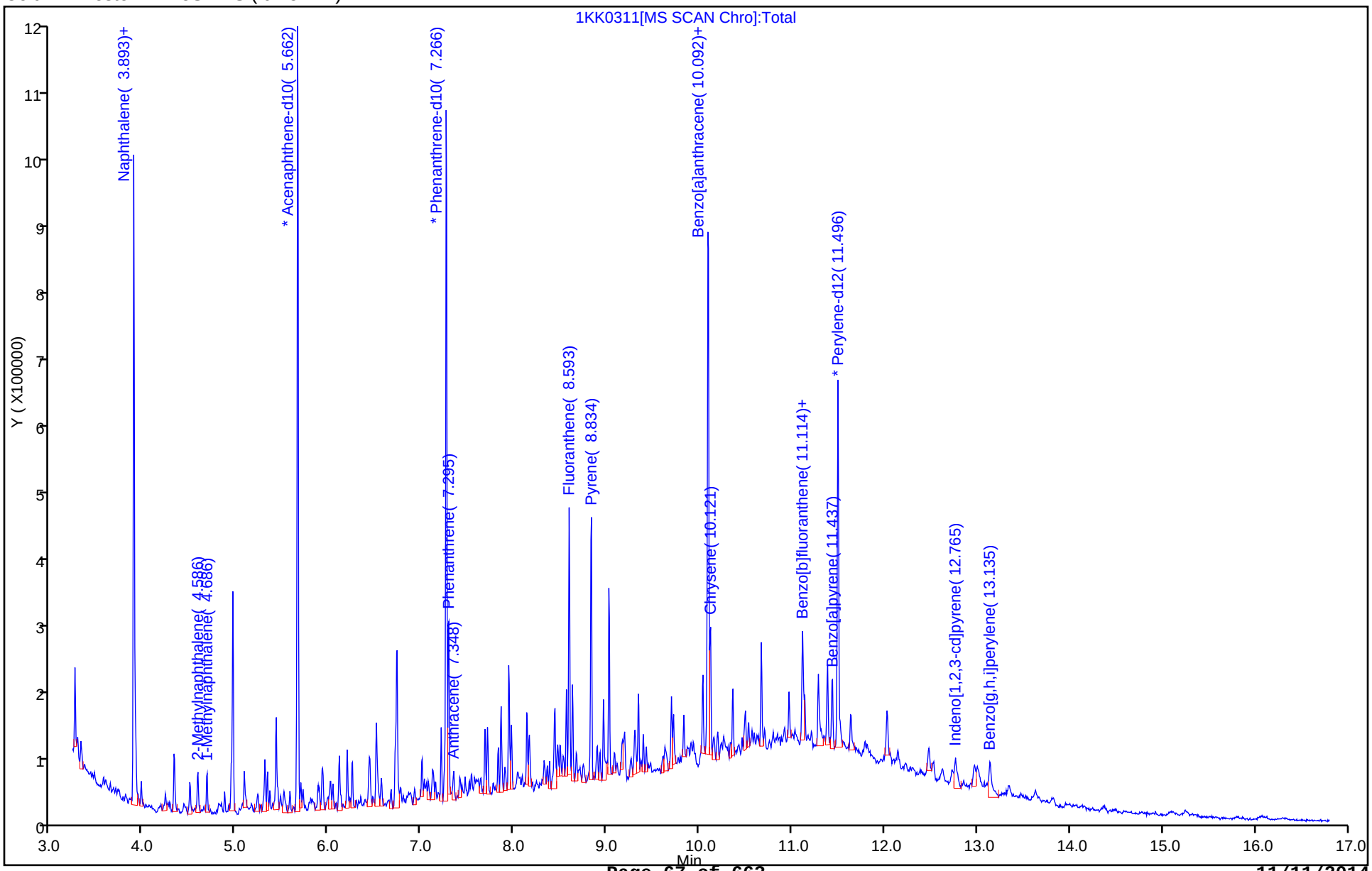
SM-LLISTD_00110 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 04-Nov-2014 09:15:31 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0311.D				
Injection Date:	03-Nov-2014 14:09:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-3-A	Lab Sample ID:	680-106803-3	Worklist Smp#:	11
Client ID:	CV0971VV-CS18"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	11
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

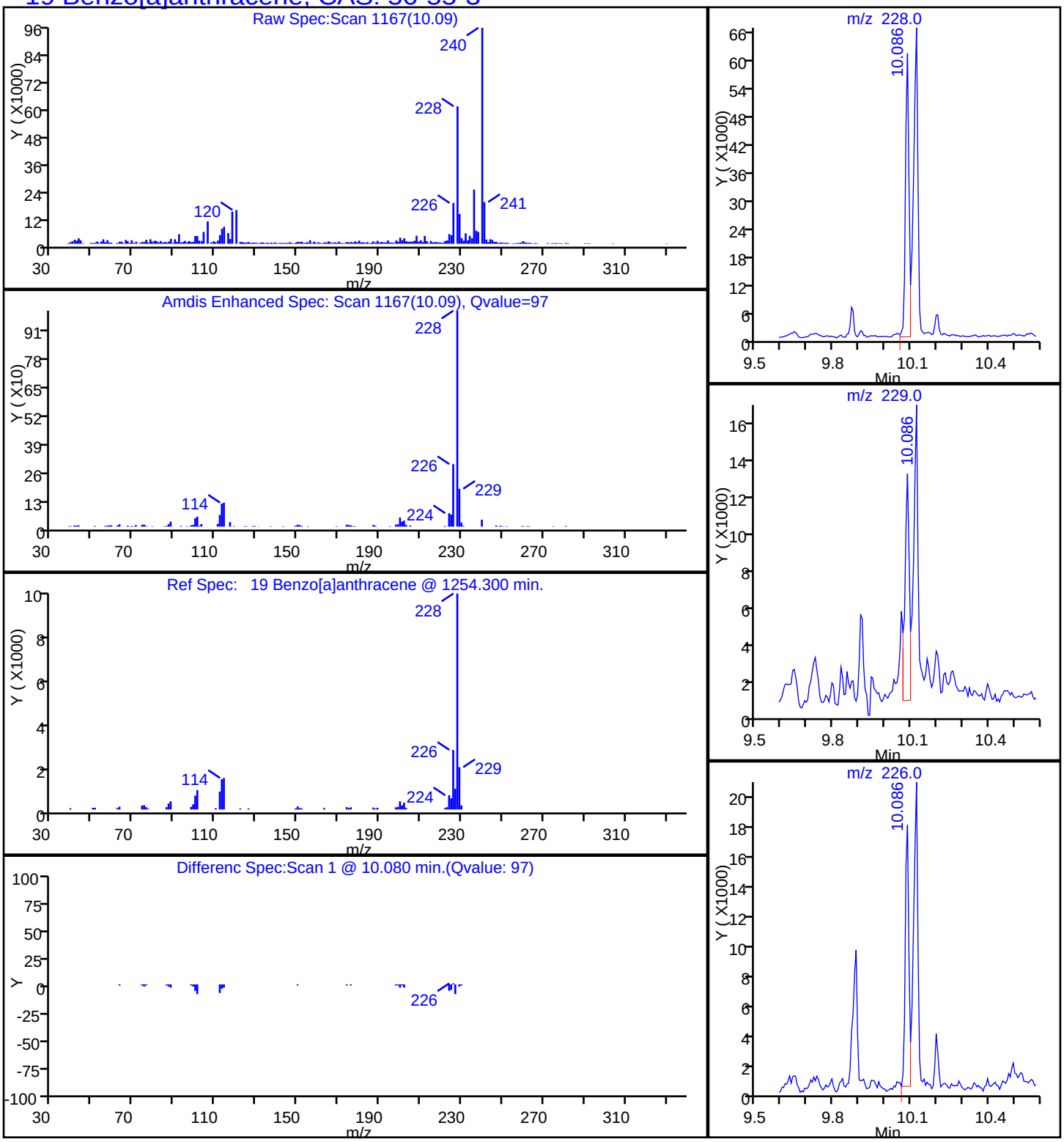


Report Date: 04-Nov-2014 09:15:31 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0311.D				
Injection Date:	03-Nov-2014 14:09:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-3-A	Lab Sample ID:	680-106803-3		
Client ID:	CV0971VV-CS18"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

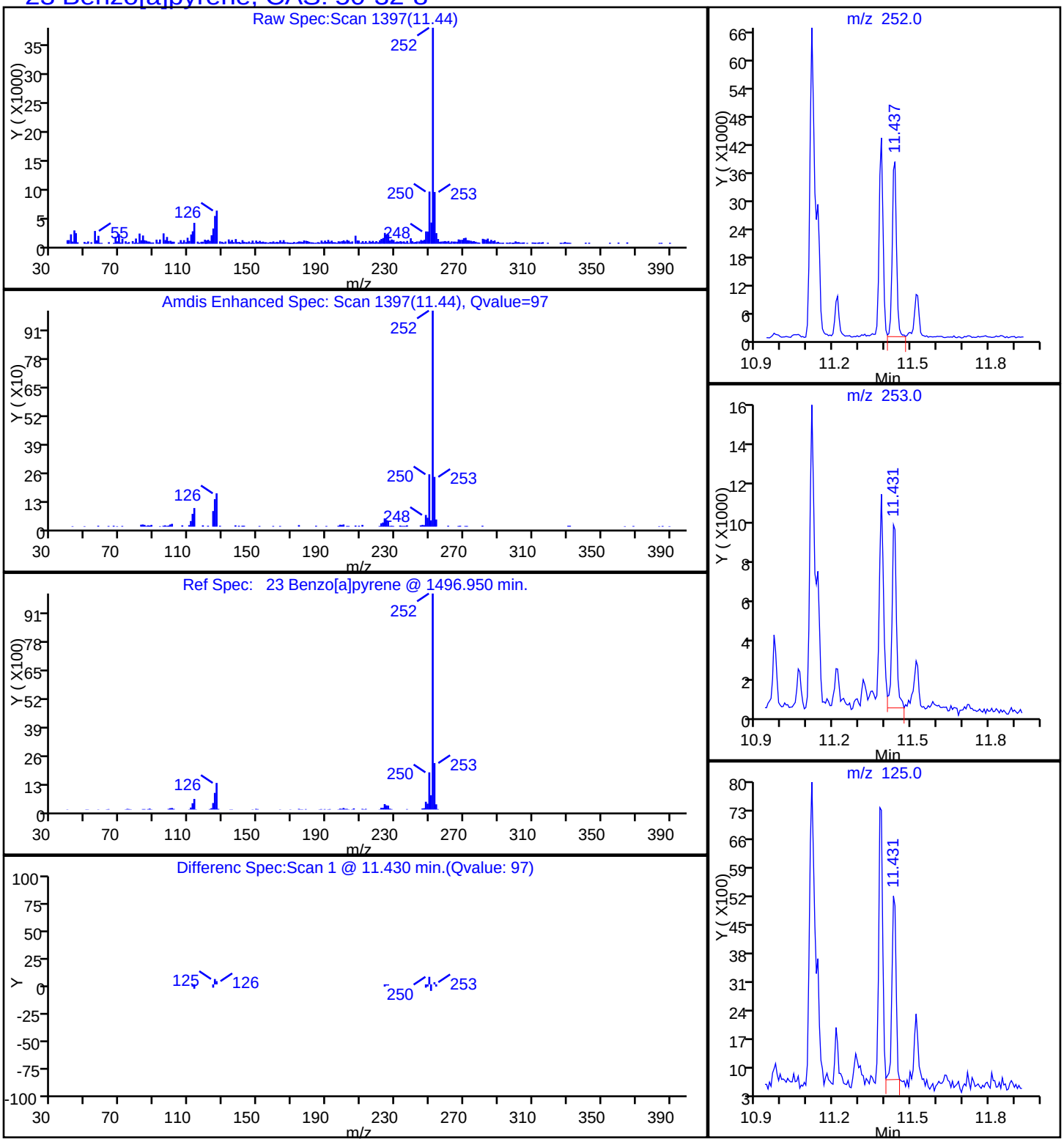


Report Date: 04-Nov-2014 09:15:31 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0311.D				
Injection Date:	03-Nov-2014 14:09:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-3-A	Lab Sample ID:	680-106803-3		
Client ID:	CV0971VV-CS18"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

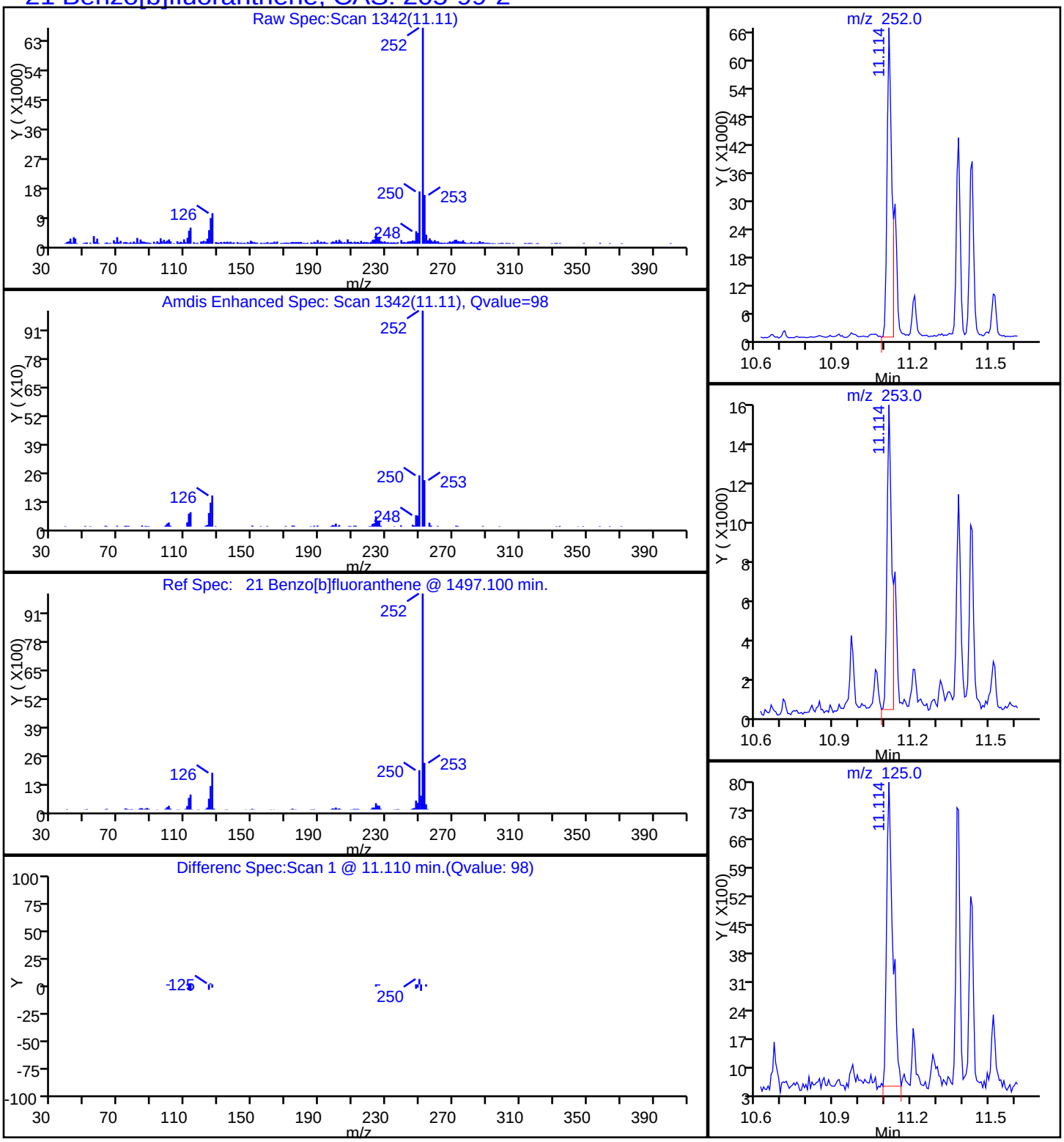


Report Date: 04-Nov-2014 09:15:31 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0311.D				
Injection Date:	03-Nov-2014 14:09:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-3-A	Lab Sample ID:	680-106803-3		
Client ID:	CV0971VV-CS18"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

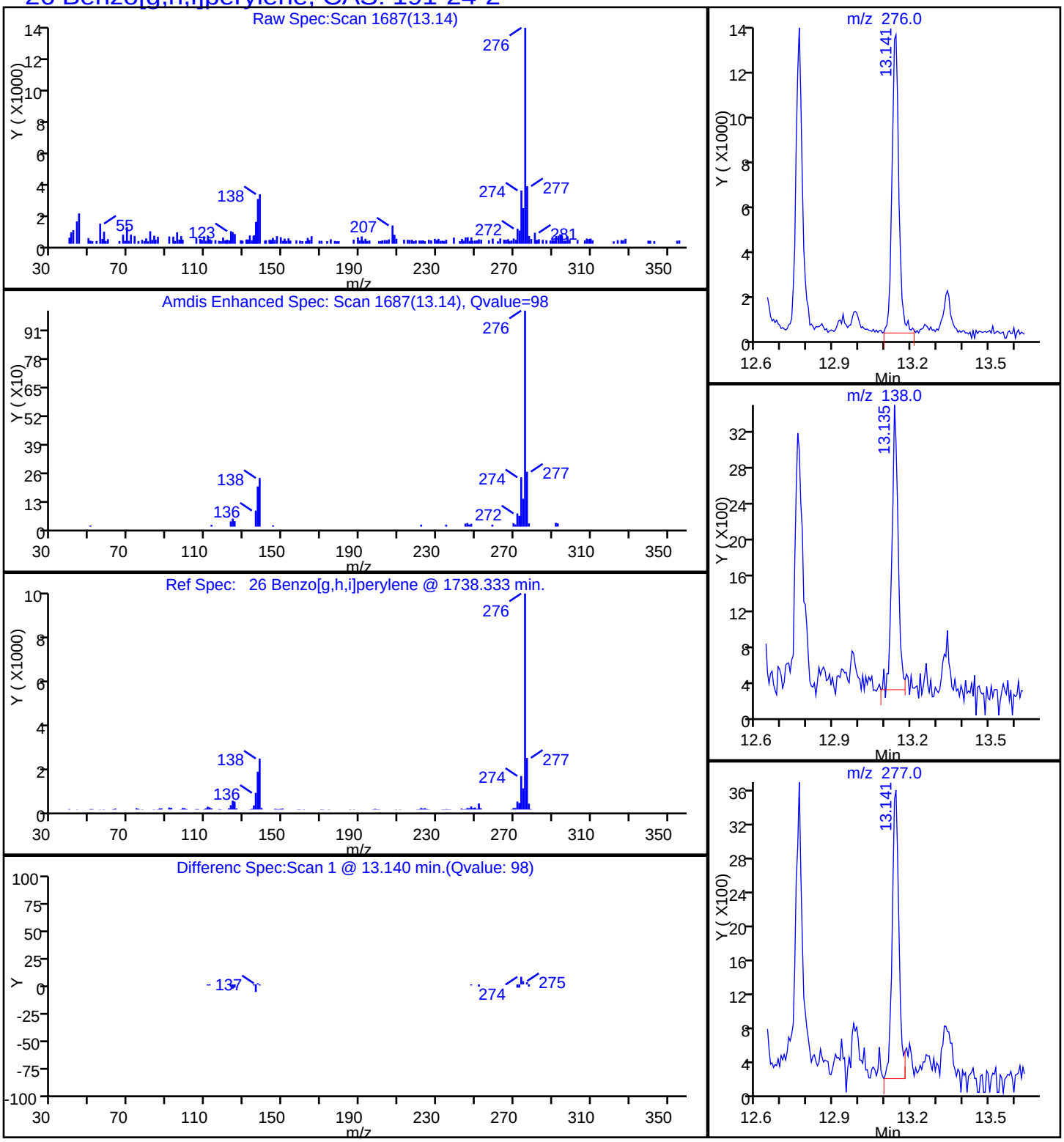


Report Date: 04-Nov-2014 09:15:31 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0311.D				
Injection Date:	03-Nov-2014 14:09:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-3-A	Lab Sample ID:	680-106803-3		
Client ID:	CV0971VV-CS18"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

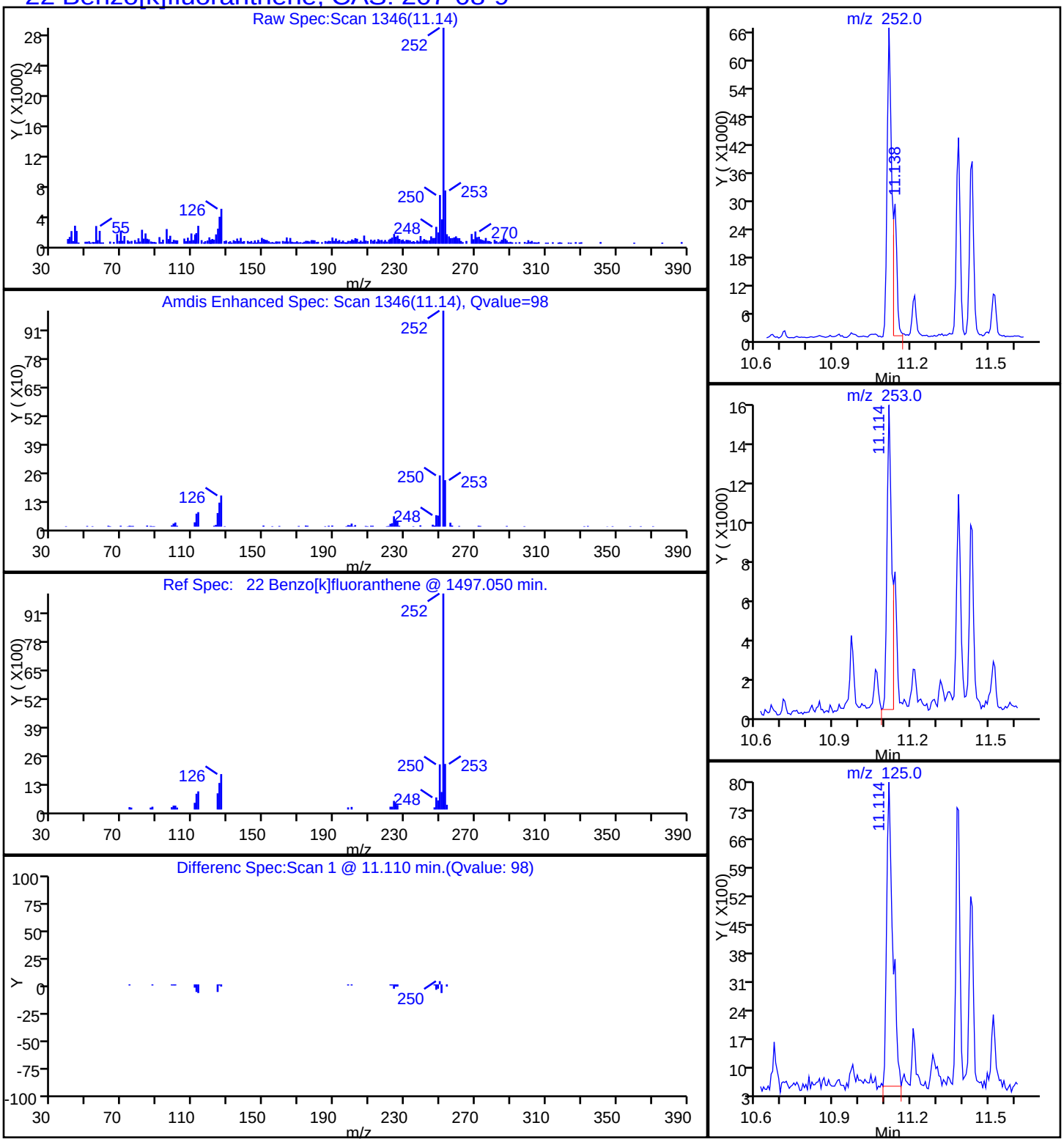


Report Date: 04-Nov-2014 09:15:31 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0311.D				
Injection Date:	03-Nov-2014 14:09:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-3-A	Lab Sample ID:	680-106803-3		
Client ID:	CV0971VV-CS18"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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: 04-Nov-2014 09:15:31 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

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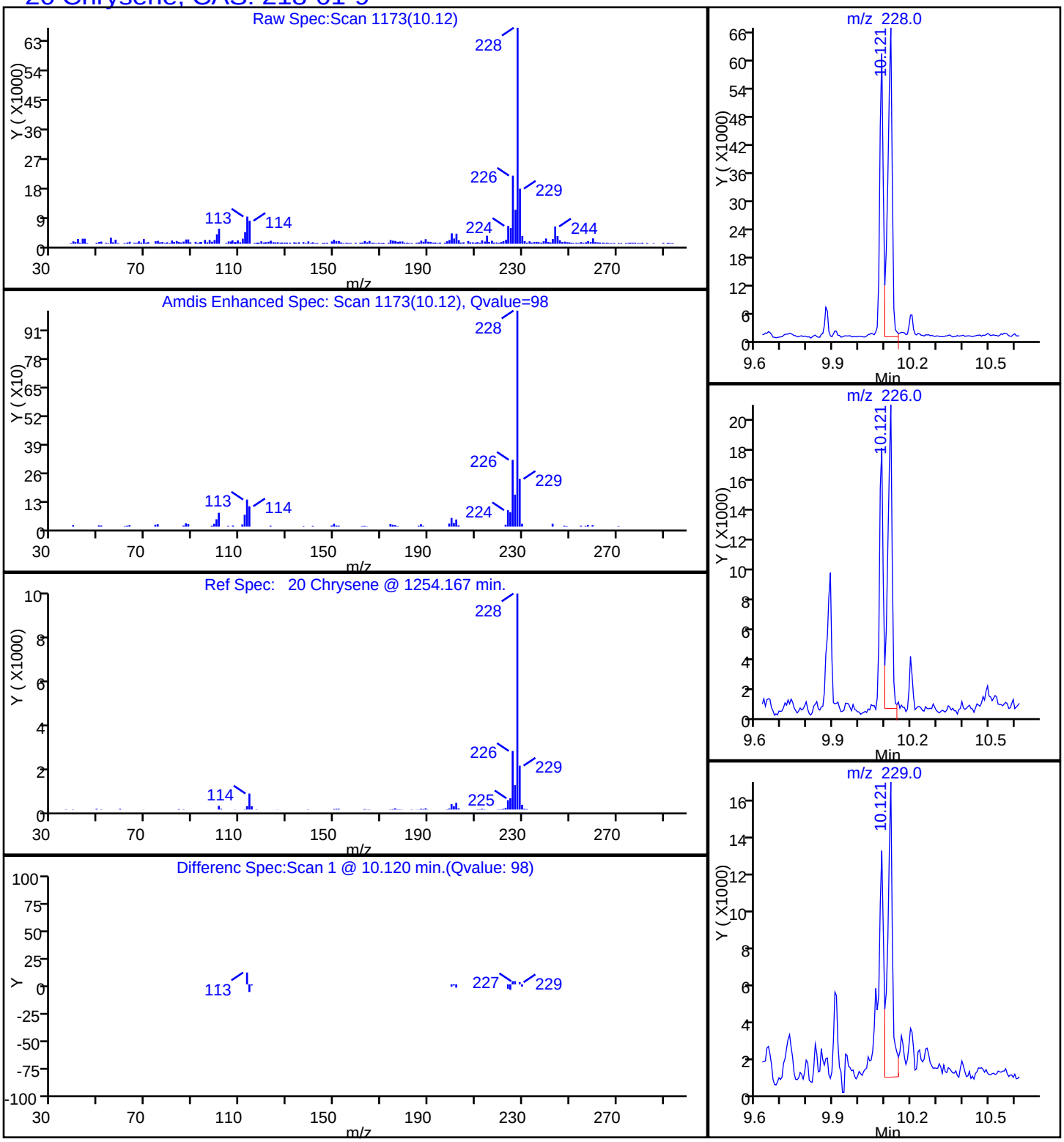
Injection Date:	03-Nov-2014 14:09:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-3-A	Lab Sample ID:	680-106803-3		
Client ID:	CV0971VV-CS18"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Chrysene, CAS: 218-01-9

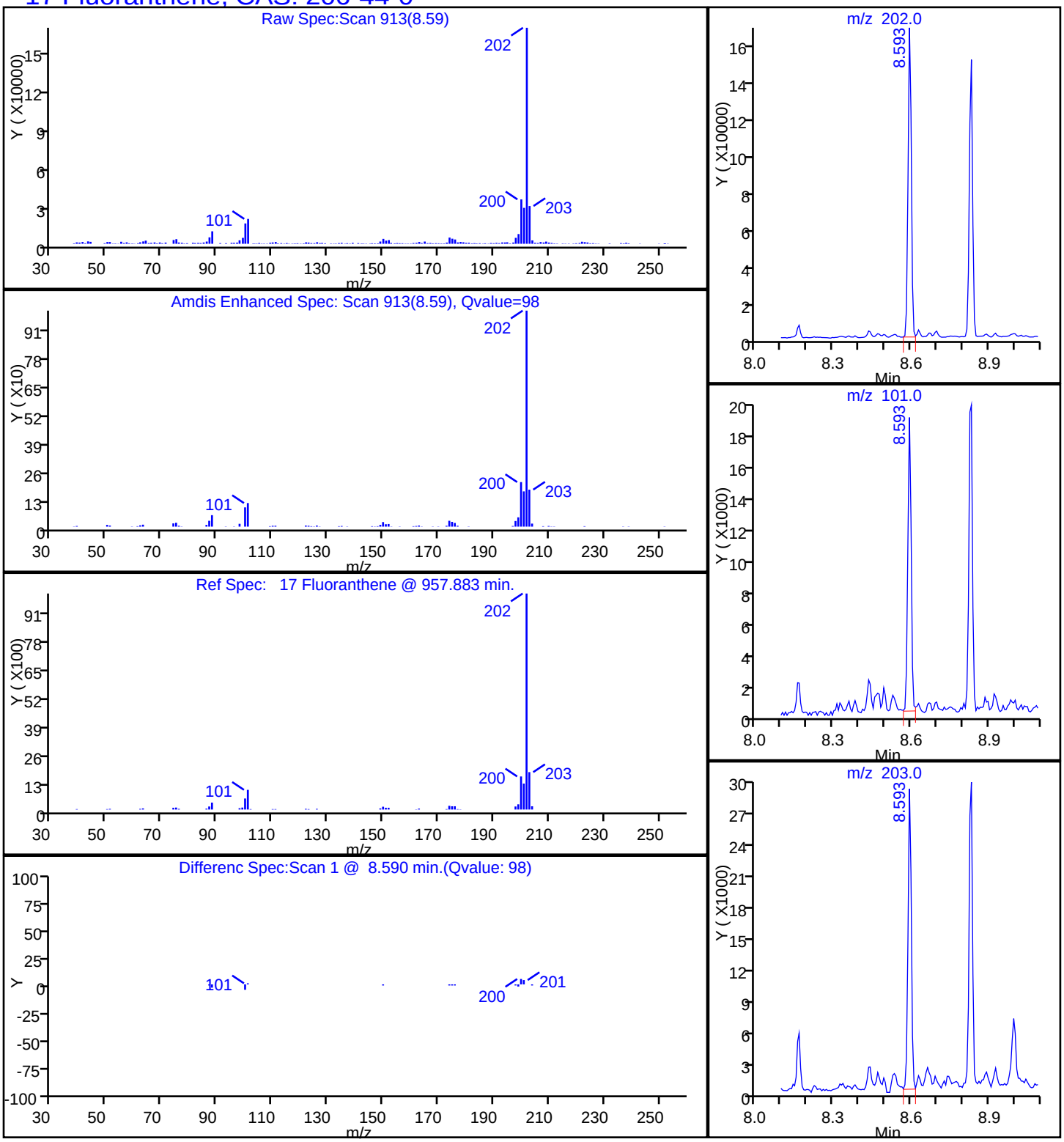


Report Date: 04-Nov-2014 09:15:31 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0311.D				
Injection Date:	03-Nov-2014 14:09:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-3-A	Lab Sample ID:	680-106803-3		
Client ID:	CV0971VV-CS18"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

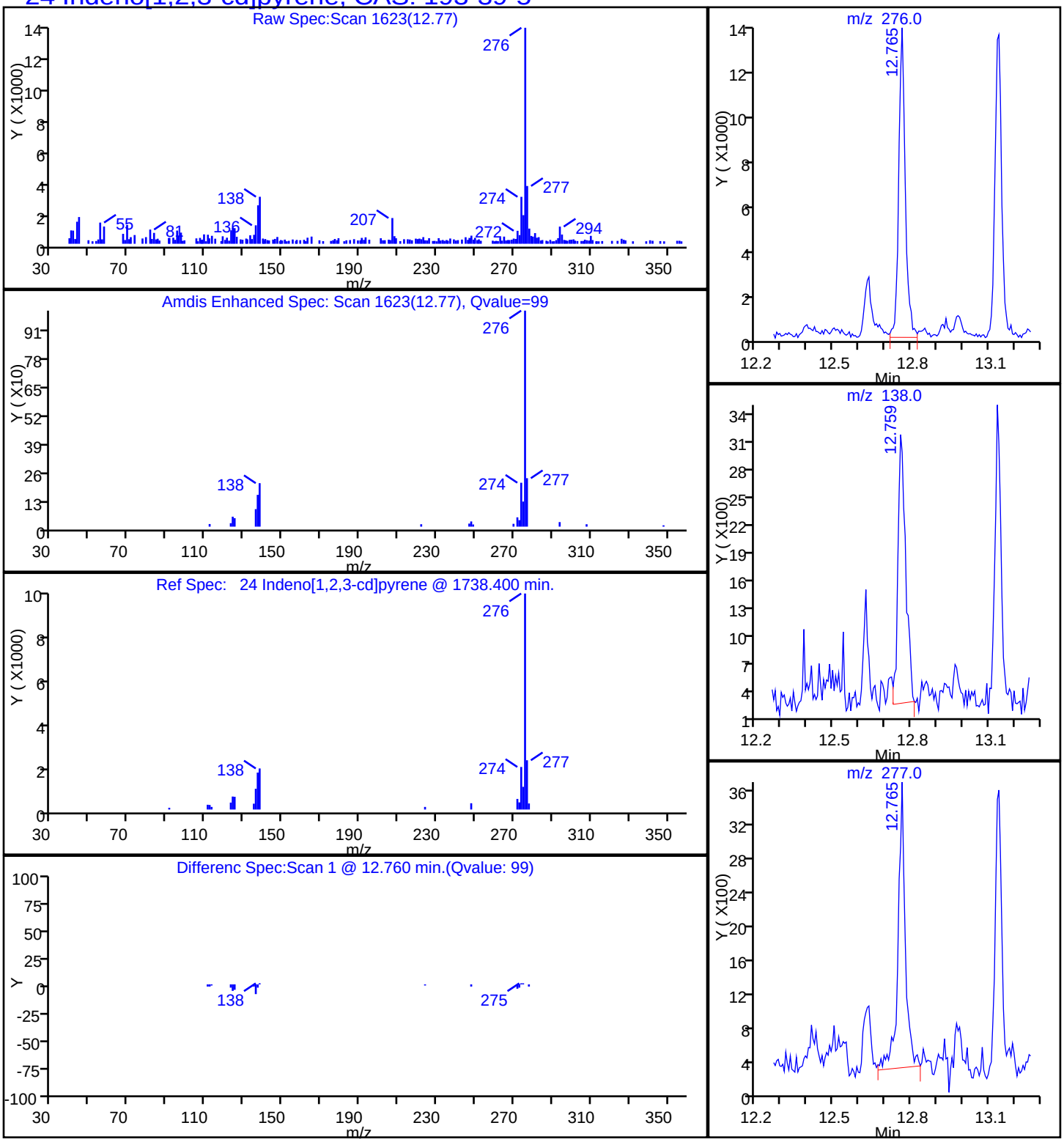


Report Date: 04-Nov-2014 09:15:31 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0311.D				
Injection Date:	03-Nov-2014 14:09:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-3-A	Lab Sample ID:	680-106803-3		
Client ID:	CV0971VV-CS18"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

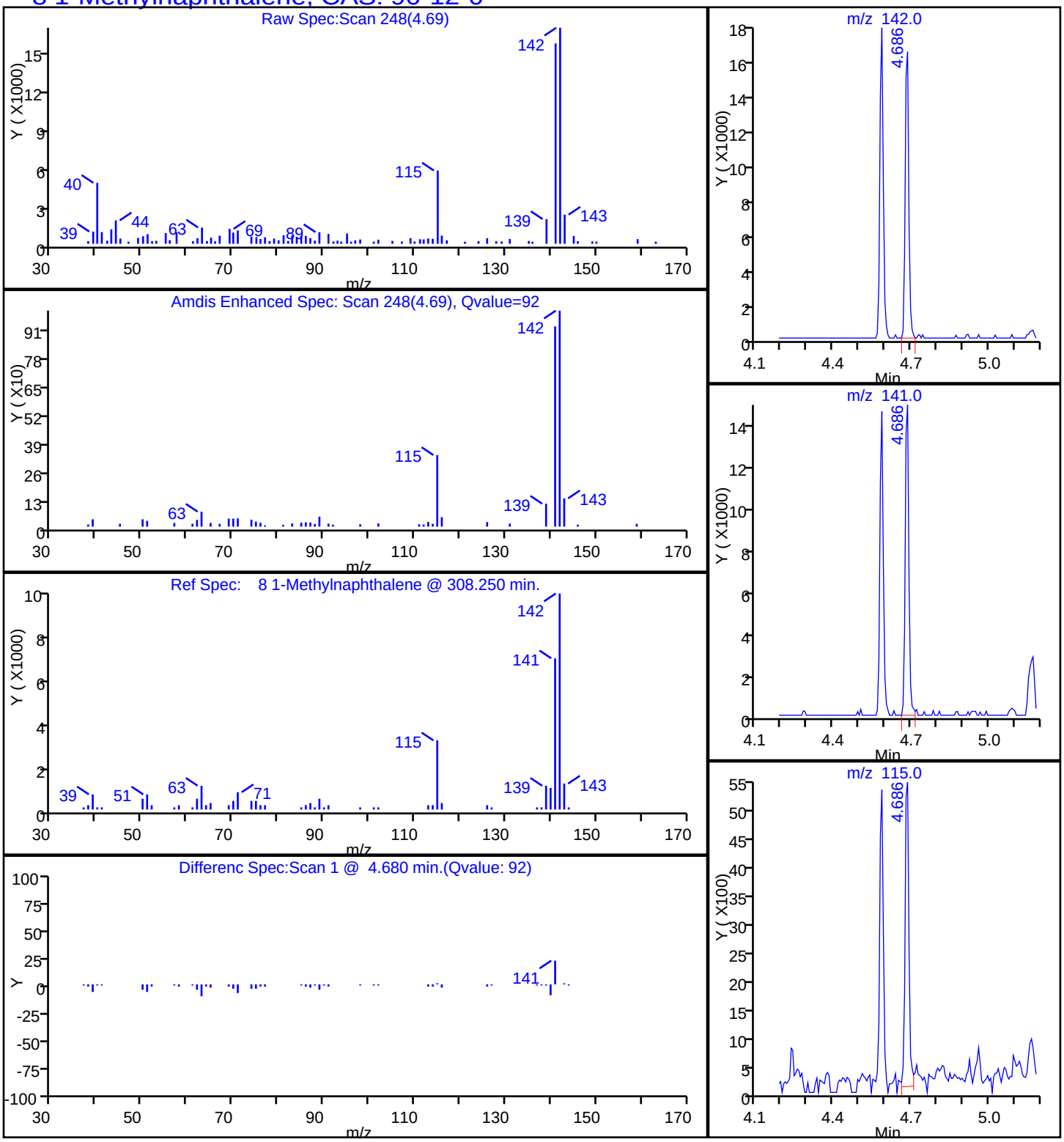


Report Date: 04-Nov-2014 09:15:31 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0311.D				
Injection Date:	03-Nov-2014 14:09:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-3-A	Lab Sample ID:	680-106803-3		
Client ID:	CV0971VV-CS18"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

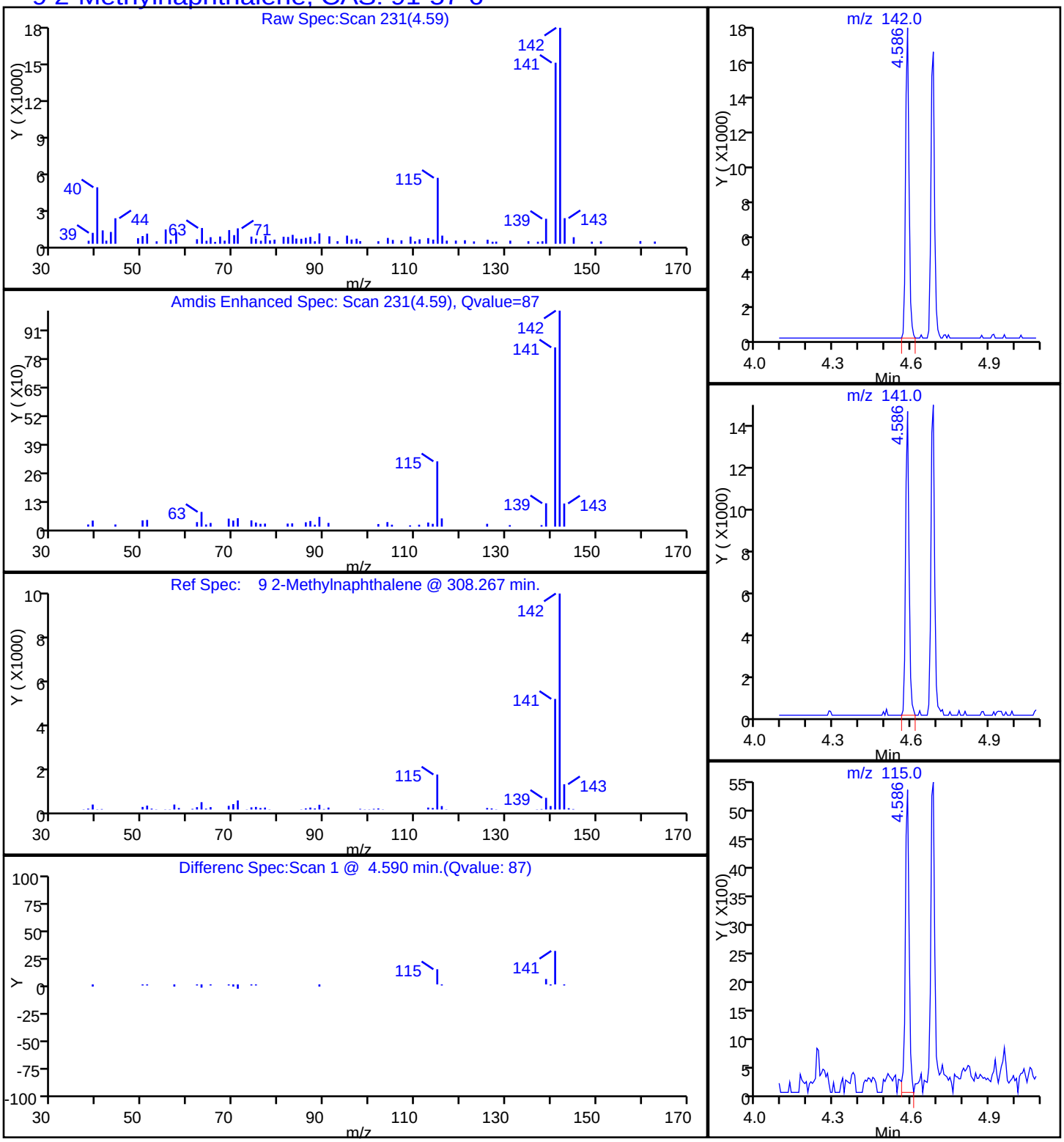


Report Date: 04-Nov-2014 09:15:31 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0311.D				
Injection Date:	03-Nov-2014 14:09:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-3-A	Lab Sample ID:	680-106803-3		
Client ID:	CV0971VV-CS18"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

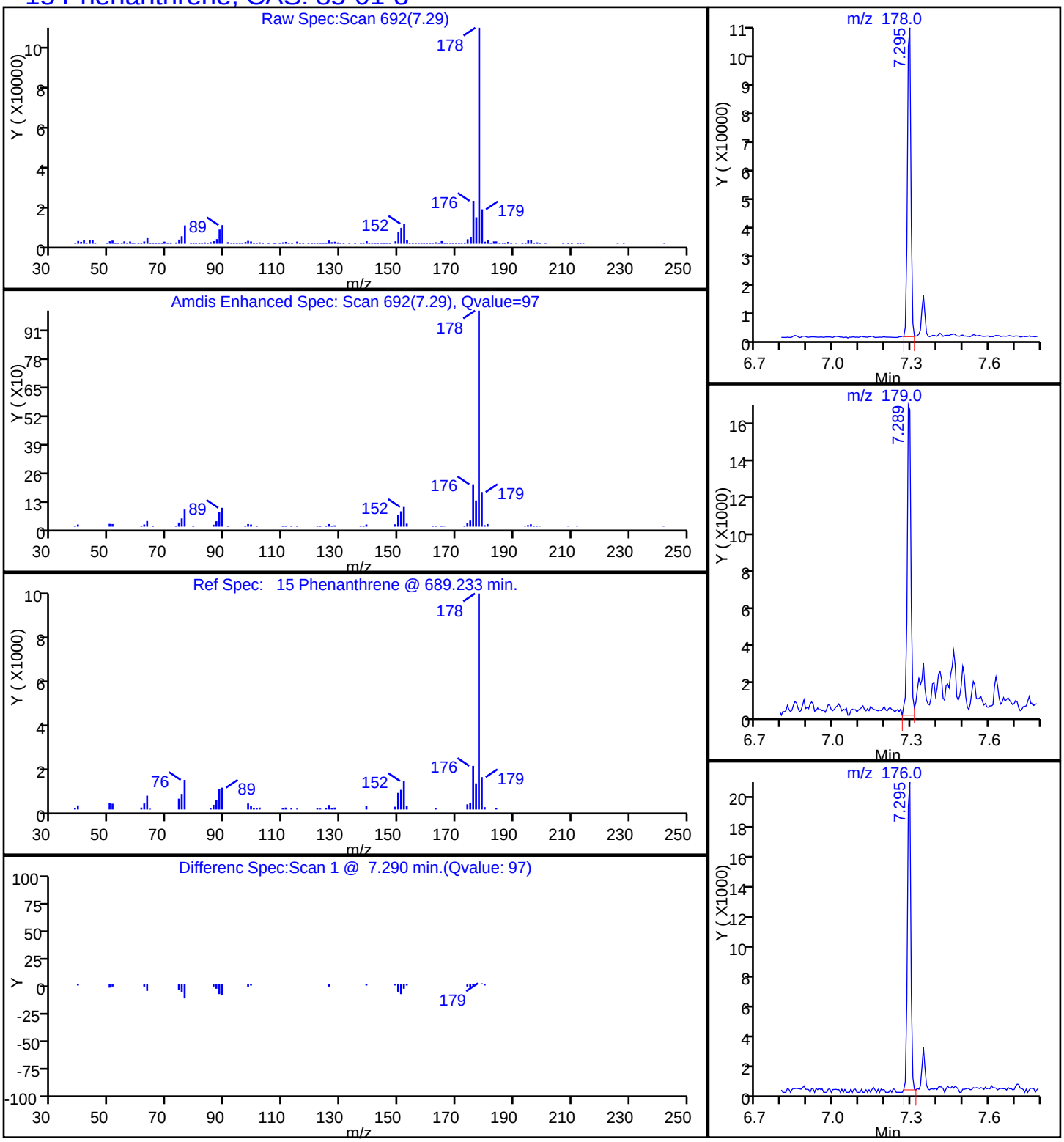


Report Date: 04-Nov-2014 09:15:31 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0311.D				
Injection Date:	03-Nov-2014 14:09:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-3-A	Lab Sample ID:	680-106803-3		
Client ID:	CV0971VV-CS18"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

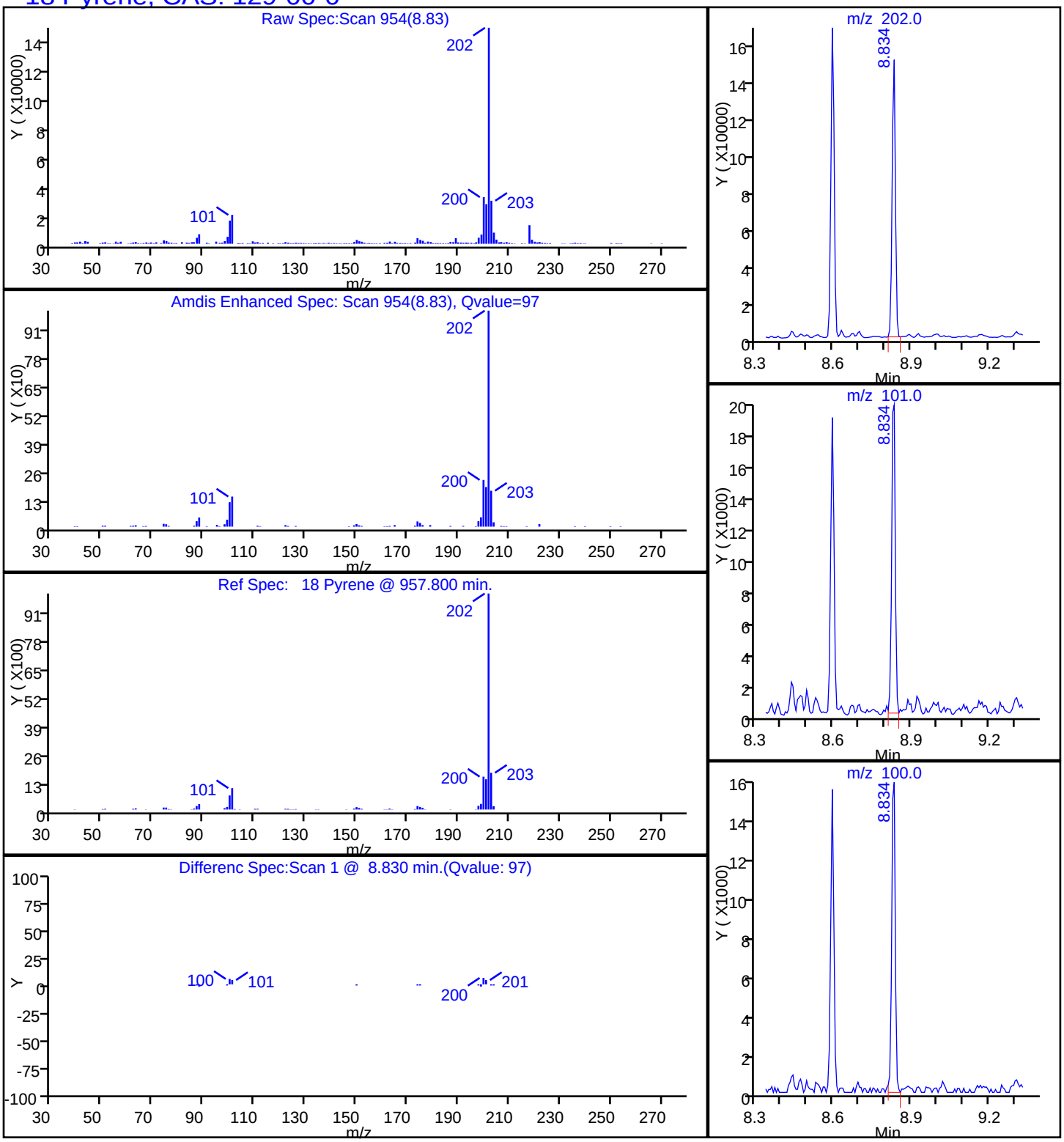


Report Date: 04-Nov-2014 09:15:31 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0311.D				
Injection Date:	03-Nov-2014 14:09:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-3-A	Lab Sample ID:	680-106803-3		
Client ID:	CV0971VV-CS18"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

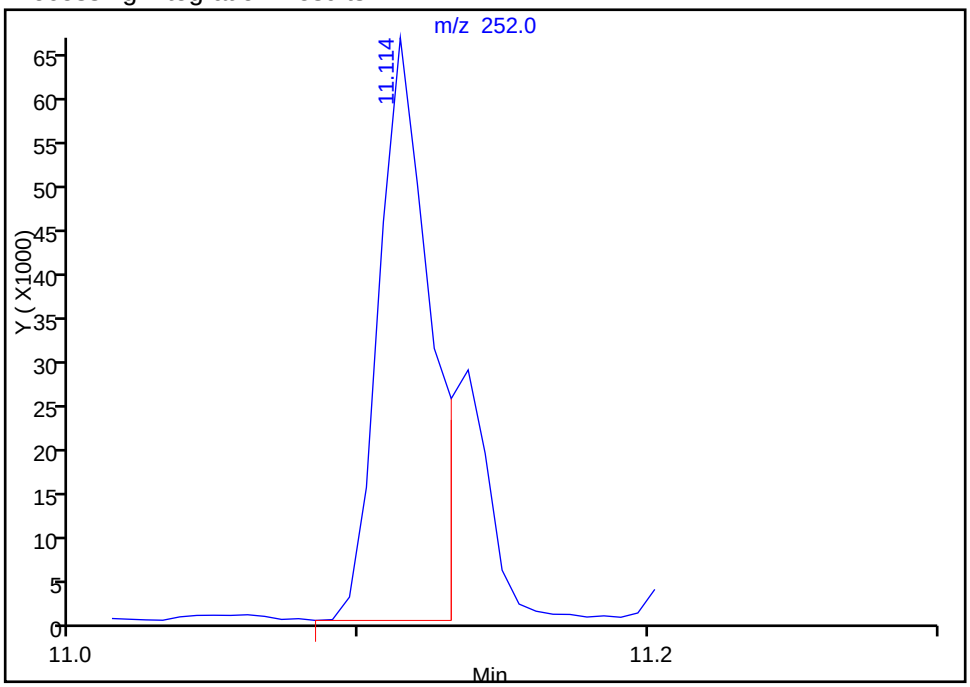
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0311.D				
Injection Date:	03-Nov-2014 14:09:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-3-A	Lab Sample ID:	680-106803-3		
Client ID:	CV0971VV-CS18"				
Operator ID:	RM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

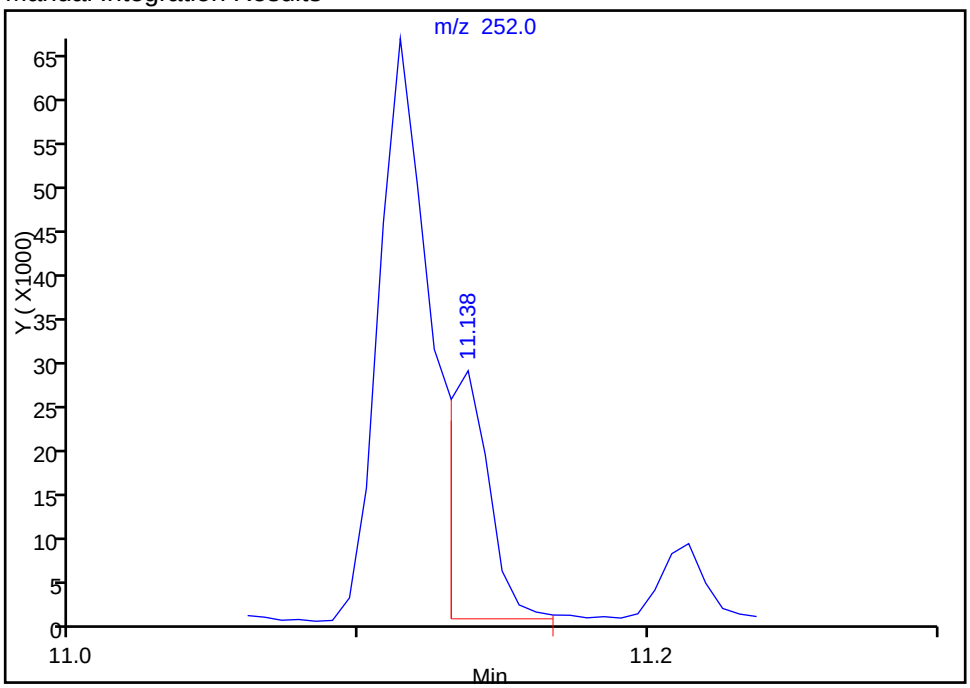
Processing Integration Results

RT: 11.11
Response: 82623
Amount: 0.589717



Manual Integration Results

RT: 11.14
Response: 28124
Amount: 0.200733



Reviewer: webbk, 03-Nov-2014 14:38:36
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971VV-CS24" | Lab Sample ID: 680-106803-4

Matrix: Solid | Lab File ID: 1KK0312.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/27/2014 15:30

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.02(g) | Date Analyzed: 11/03/2014 14:31

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

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

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

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	81	U	81	40
208-96-8	Acenaphthylene	81	U	81	40
120-12-7	Anthracene	81	U	81	40
56-55-3	Benzo[a]anthracene	210		81	40
50-32-8	Benzo[a]pyrene	230		81	15
205-99-2	Benzo[b]fluoranthene	410		81	40
191-24-2	Benzo[g,h,i]perylene	110		81	40
207-08-9	Benzo[k]fluoranthene	150		81	24
218-01-9	Chrysene	310		81	40
53-70-3	Dibenz(a,h)anthracene	44	J	81	40
206-44-0	Fluoranthene	320		81	40
86-73-7	Fluorene	81	U	81	40
193-39-5	Indeno[1,2,3-cd]pyrene	100		81	40
90-12-0	1-Methylnaphthalene	81	U	81	38
91-57-6	2-Methylnaphthalene	81	U	81	40
91-20-3	Naphthalene	81	U	81	40
85-01-8	Phenanthrene	120		81	29
129-00-0	Pyrene	290		81	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\CMSK\20141103-14354.b\1KK0312.D
Lims ID: 680-106803-B-4-A Lab Sample ID: 680-106803-4
Client ID: CV0971VV-CS24"
Sample Type: Client
Inject. Date: 03-Nov-2014 14:31:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 680-106803-B-4-A 1:10
Misc. Info.: 680-0014354-012
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 04-Nov-2014 09:15:09 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 03-Nov-2014 15:04:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.893	3.893	0.000	99	418268	2.00	
* 2 Acenaphthene-d10	164	5.662	5.662	0.000	92	249268	2.00	
* 3 Phenanthrene-d10	188	7.266	7.266	0.000	99	374899	2.00	
* 4 Chrysene-d12	240	10.098	10.092	0.006	99	254593	2.00	
* 5 Perylene-d12	264	11.502	11.496	0.006	99	197004	2.00	
7 Naphthalene	128	3.911	3.911	0.000	98	15434	0.0668	
9 2-Methylnaphthalene	142	4.586	4.586	0.000	84	11395	0.0797	
8 1-Methylnaphthalene	142	4.686	4.680	0.006	91	9238	0.0683	
15 Phenanthrene	178	7.295	7.289	0.006	97	67202	0.2943	
16 Anthracene	178	7.348	7.348	0.000	99	15566	0.0725	
17 Fluoranthene	202	8.593	8.594	-0.001	97	183818	0.8043	
18 Pyrene	202	8.834	8.829	0.005	97	165312	0.7235	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	97	80552	0.5299	
20 Chrysene	228	10.121	10.115	0.006	98	111775	0.7789	
21 Benzo[b]fluoranthene	252	11.120	11.114	0.006	98	128110	1.01	
22 Benzo[k]fluoranthene	252	11.143	11.138	0.005	97	49922	0.3786	M
23 Benzo[a]pyrene	252	11.443	11.437	0.006	96	63685	0.5727	
24 Indeno[1,2,3-cd]pyrene	276	12.771	12.765	0.006	97	36053	0.2598	
25 Dibenz(a,h)anthracene	278	12.800	12.795	0.005	94	11162	0.1081	
26 Benzo[g,h,i]perylene	276	13.147	13.141	0.006	97	31444	0.2786	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

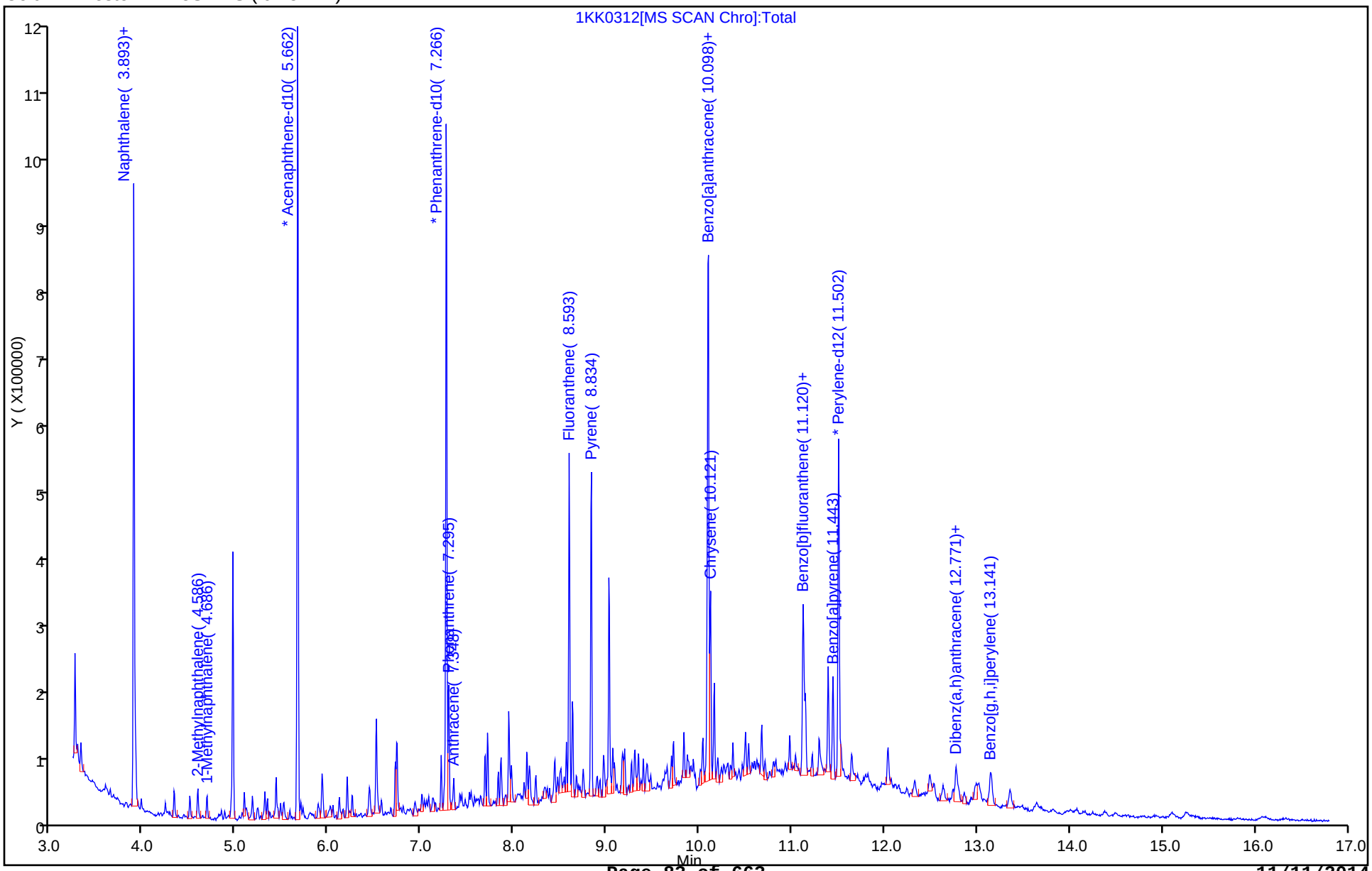
SM-LLISTD_00110 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 04-Nov-2014 09:15:29 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0312.D				
Injection Date:	03-Nov-2014 14:31:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-4-A	Lab Sample ID:	680-106803-4	Worklist Smp#:	12
Client ID:	CV0971VV-CS24"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	12
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

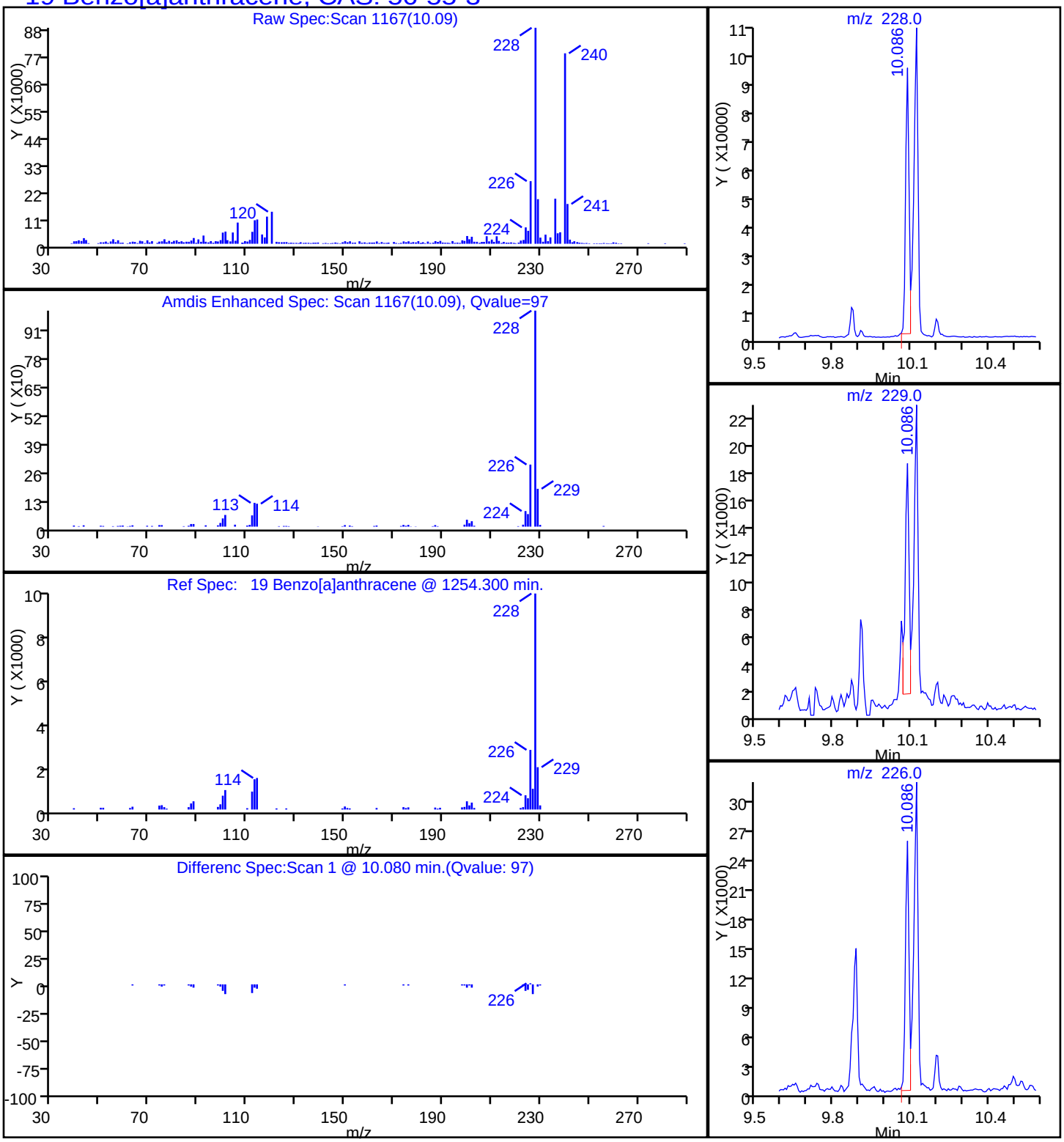


Report Date: 04-Nov-2014 09:15:29 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0312.D				
Injection Date:	03-Nov-2014 14:31:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-4-A	Lab Sample ID:	680-106803-4		
Client ID:	CV0971VV-CS24"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

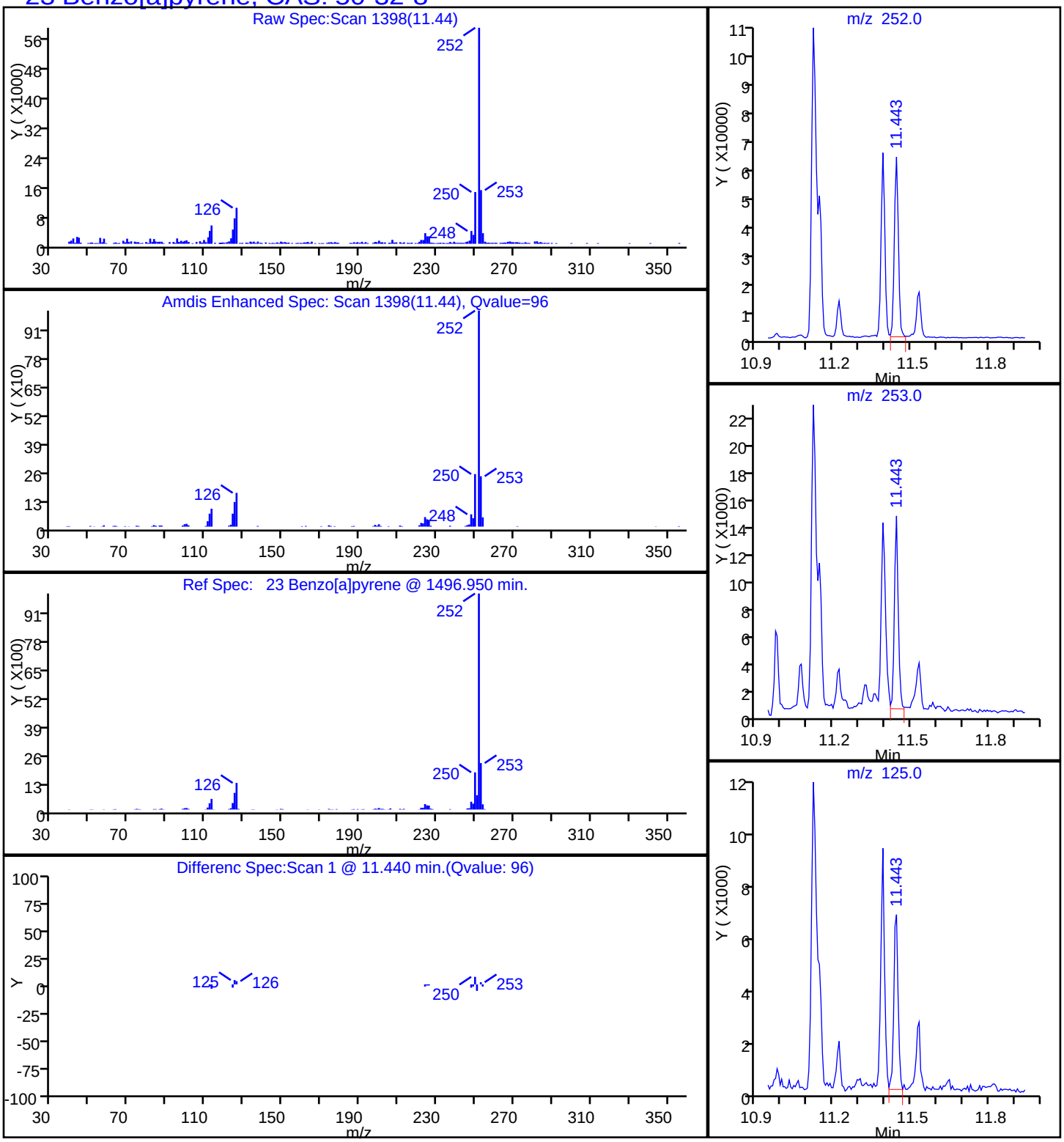


Report Date: 04-Nov-2014 09:15:29 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0312.D				
Injection Date:	03-Nov-2014 14:31:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-4-A	Lab Sample ID:	680-106803-4		
Client ID:	CV0971VV-CS24"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

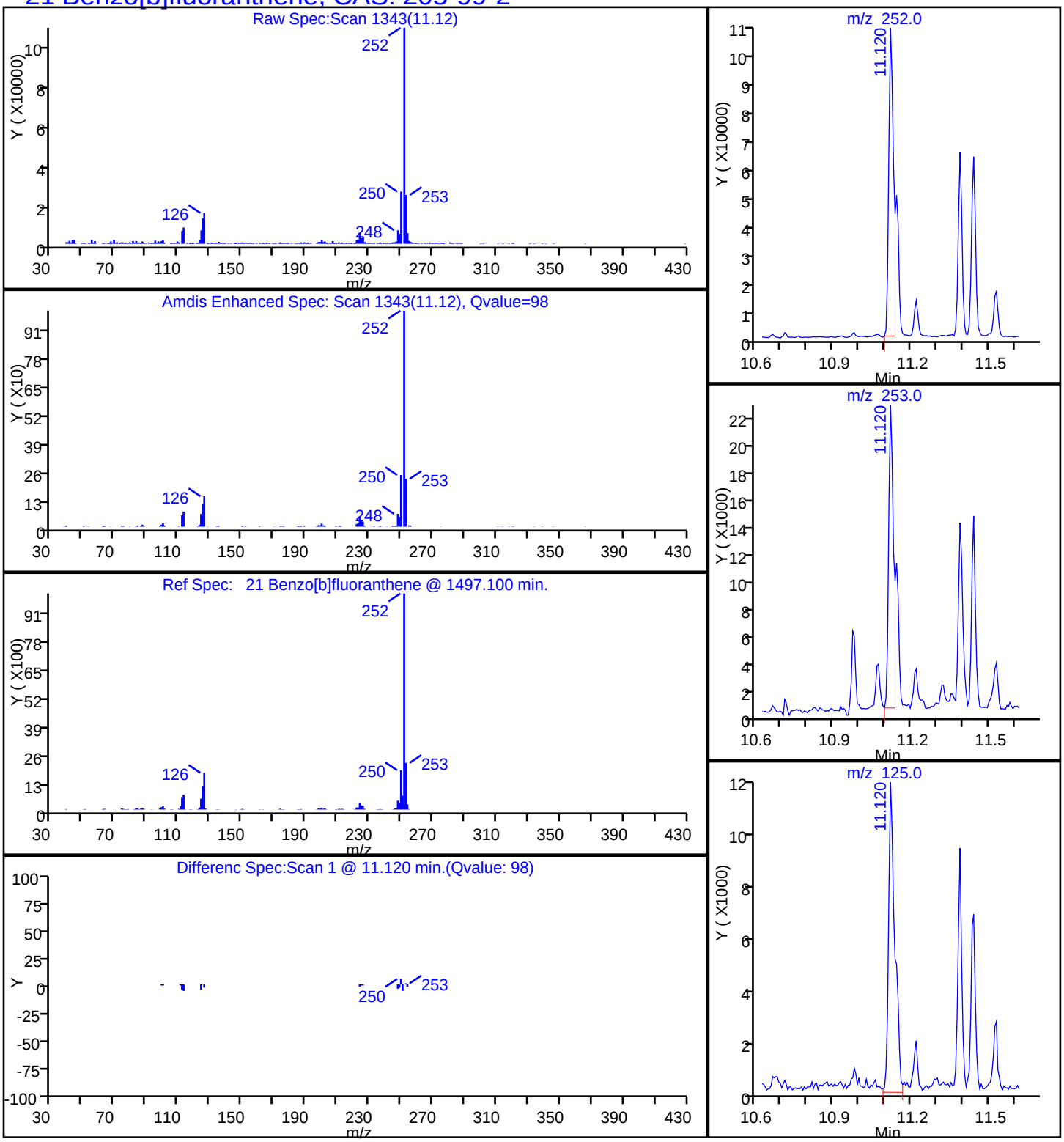


Report Date: 04-Nov-2014 09:15:29 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0312.D				
Injection Date:	03-Nov-2014 14:31:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-4-A	Lab Sample ID:	680-106803-4		
Client ID:	CV0971VV-CS24"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

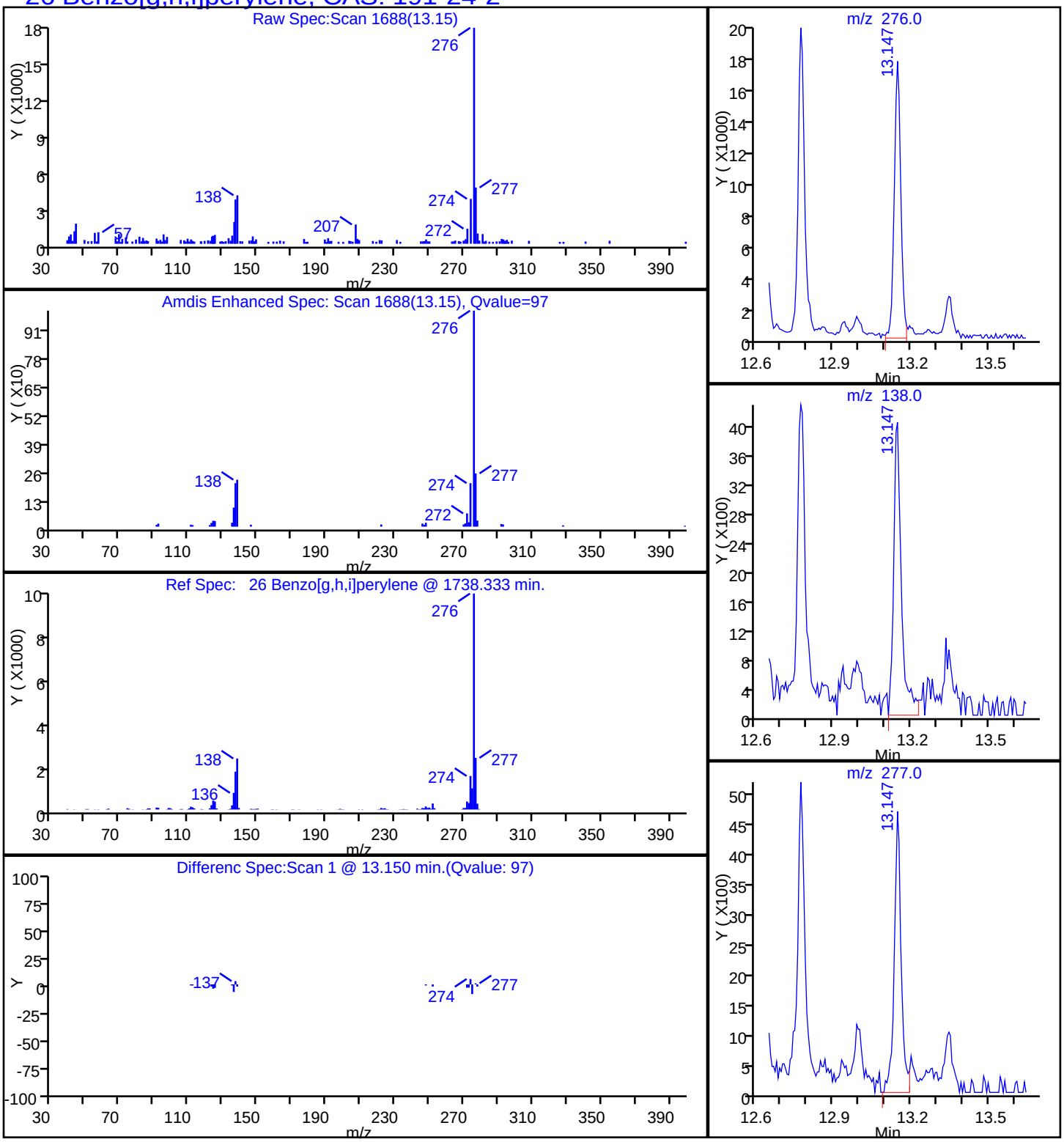


Report Date: 04-Nov-2014 09:15:29 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0312.D				
Injection Date:	03-Nov-2014 14:31:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-4-A	Lab Sample ID:	680-106803-4		
Client ID:	CV0971VV-CS24"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

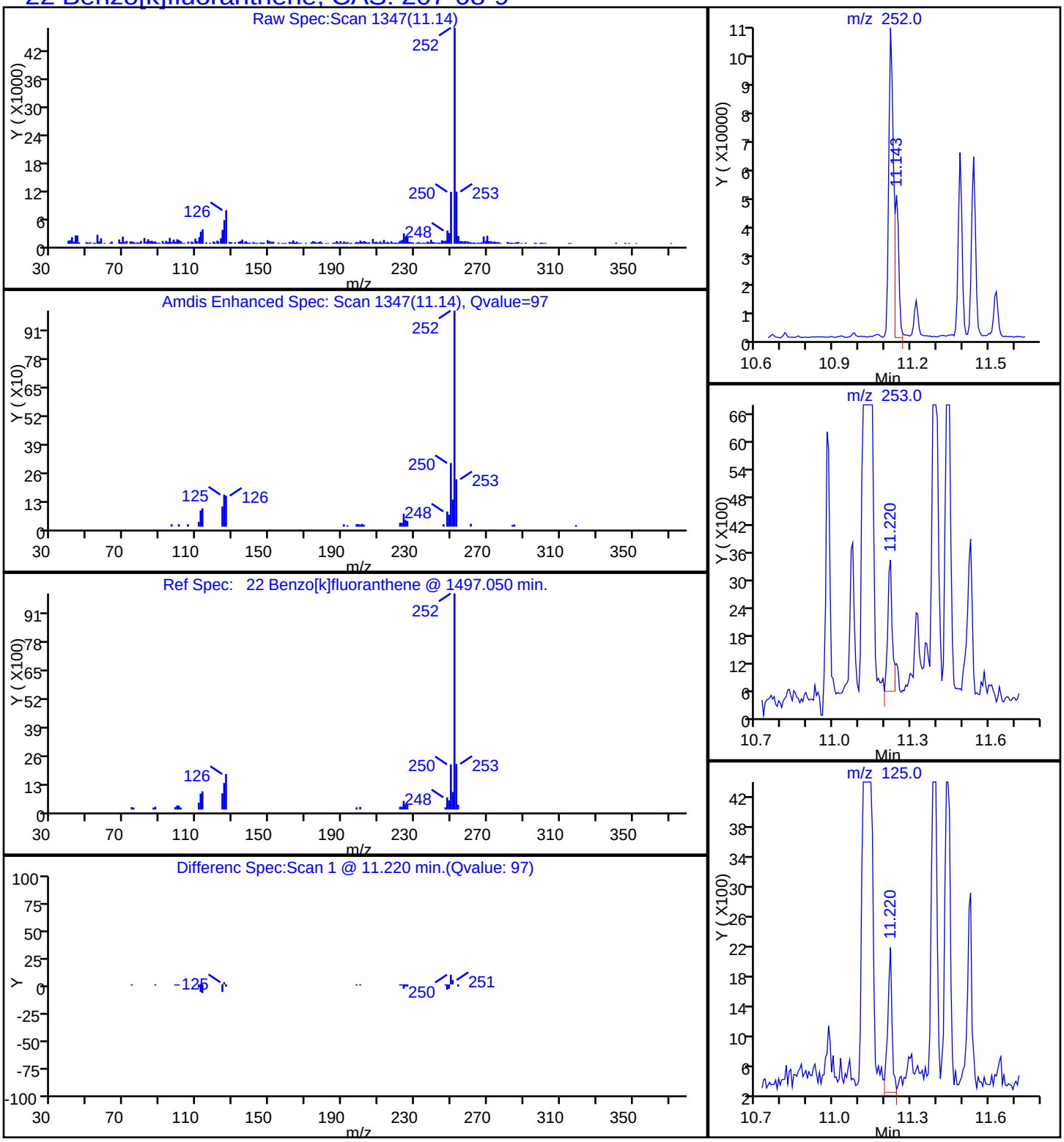


Report Date: 04-Nov-2014 09:15:29 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0312.D				
Injection Date:	03-Nov-2014 14:31:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-4-A	Lab Sample ID:	680-106803-4		
Client ID:	CV0971VV-CS24"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

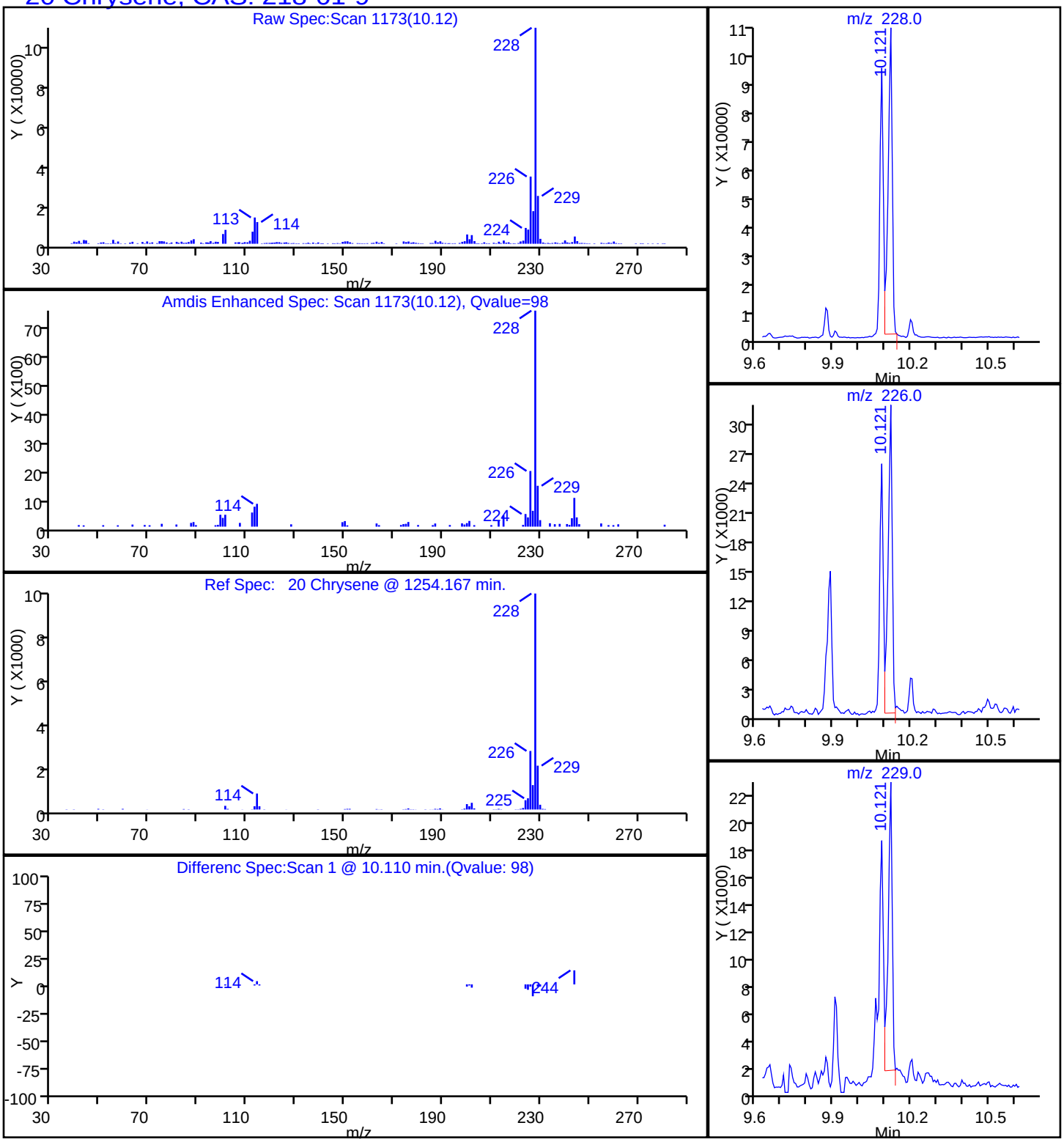


Report Date: 04-Nov-2014 09:15:29 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0312.D				
Injection Date:	03-Nov-2014 14:31:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-4-A	Lab Sample ID:	680-106803-4		
Client ID:	CV0971VV-CS24"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

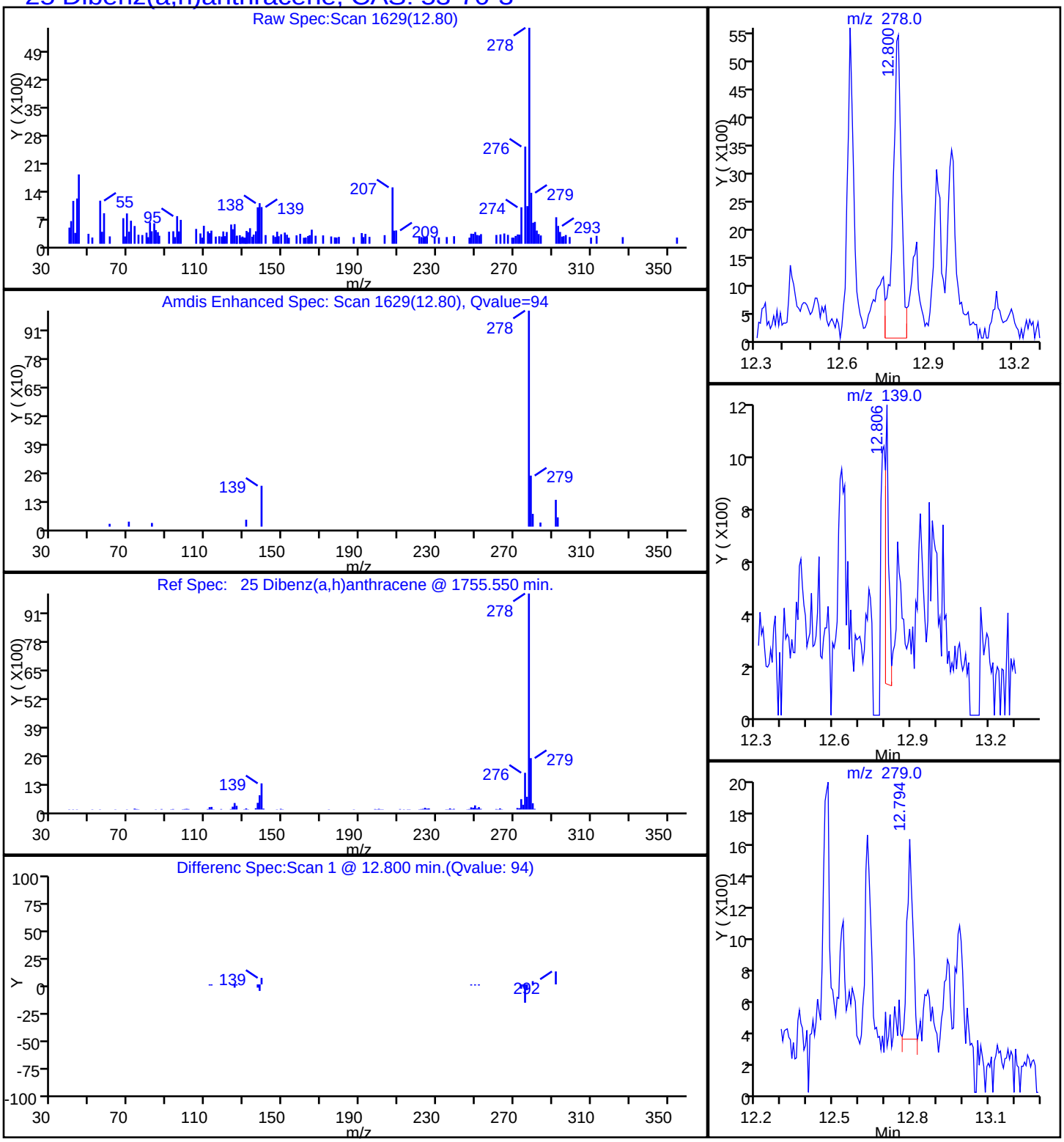


Report Date: 04-Nov-2014 09:15:29 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0312.D				
Injection Date:	03-Nov-2014 14:31:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-4-A	Lab Sample ID:	680-106803-4		
Client ID:	CV0971VV-CS24"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

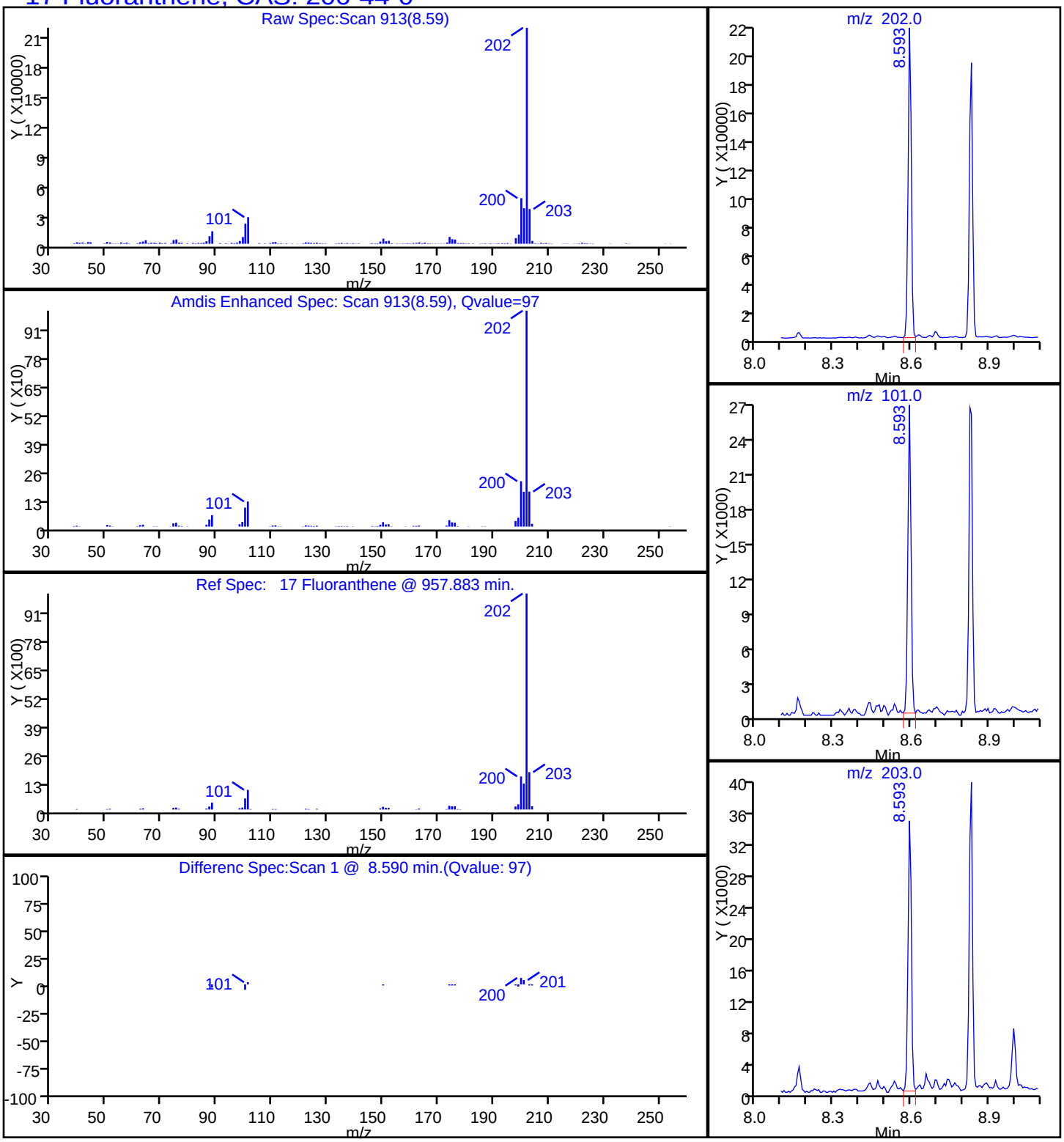


Report Date: 04-Nov-2014 09:15:29 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0312.D				
Injection Date:	03-Nov-2014 14:31:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-4-A	Lab Sample ID:	680-106803-4		
Client ID:	CV0971VV-CS24"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

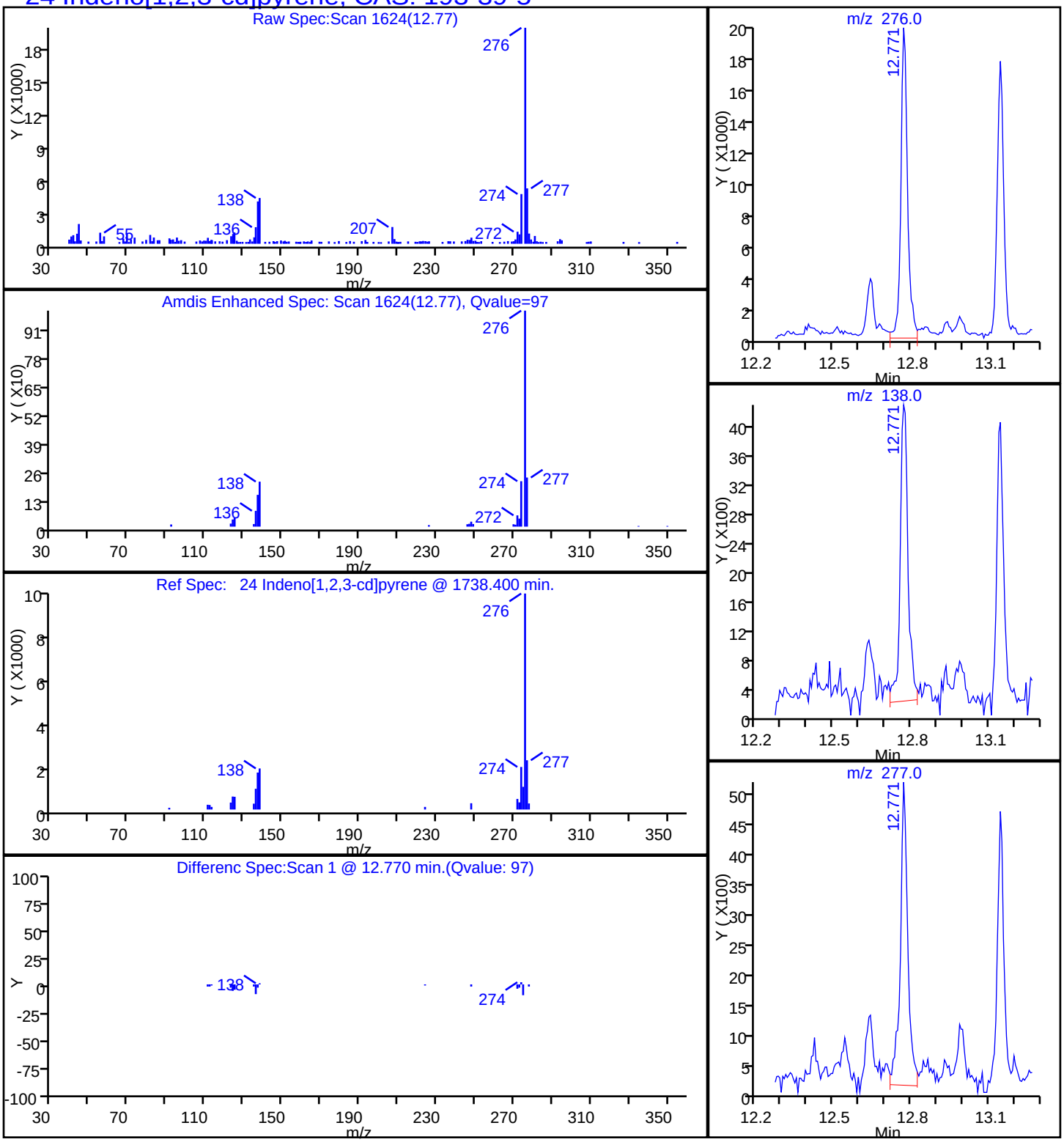


Report Date: 04-Nov-2014 09:15:29 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0312.D				
Injection Date:	03-Nov-2014 14:31:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-4-A	Lab Sample ID:	680-106803-4		
Client ID:	CV0971VV-CS24"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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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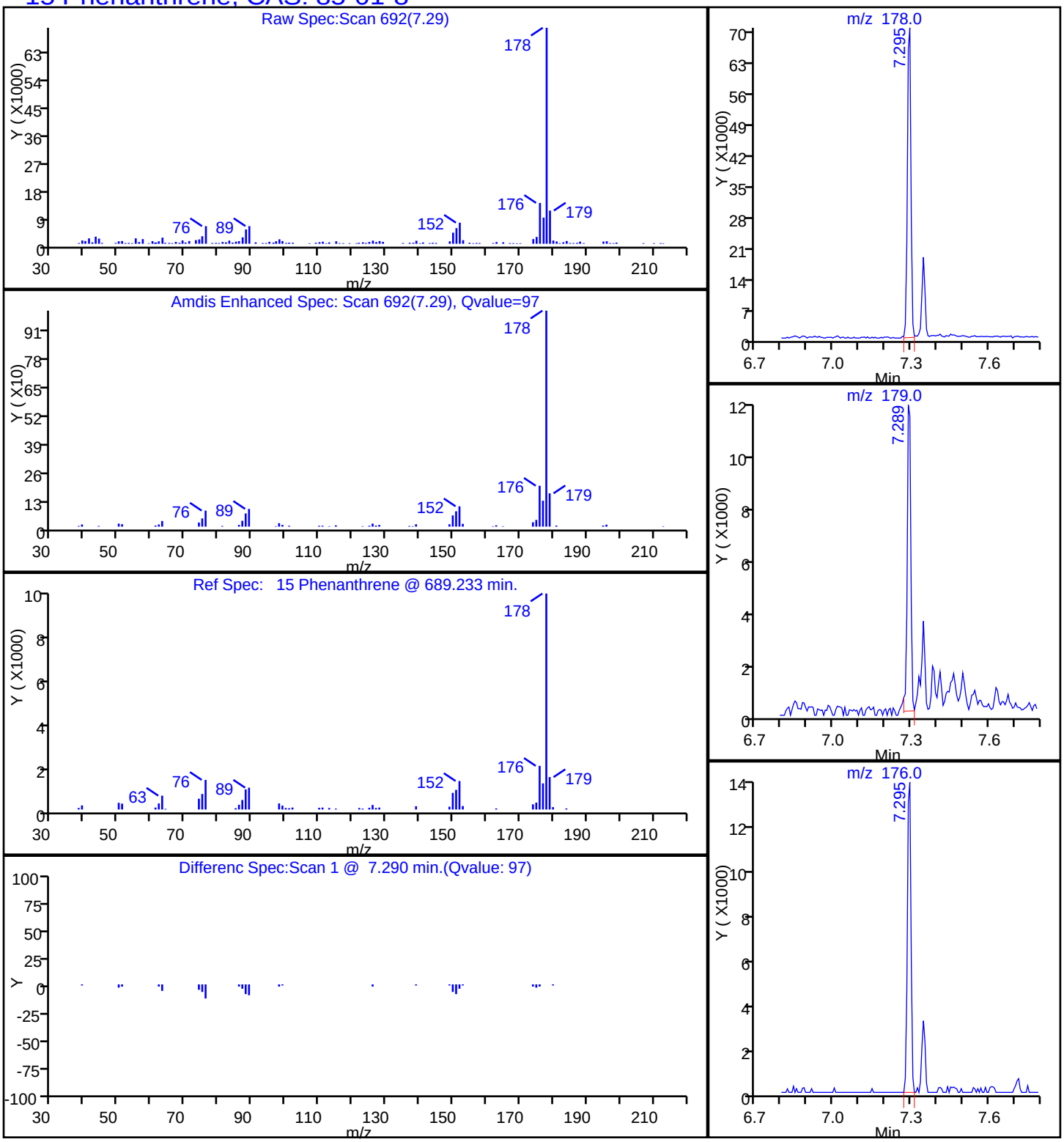
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0312.D				
Injection Date:	03-Nov-2014 14:31:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-4-A	Lab Sample ID:	680-106803-4		
Client ID:	CV0971VV-CS24"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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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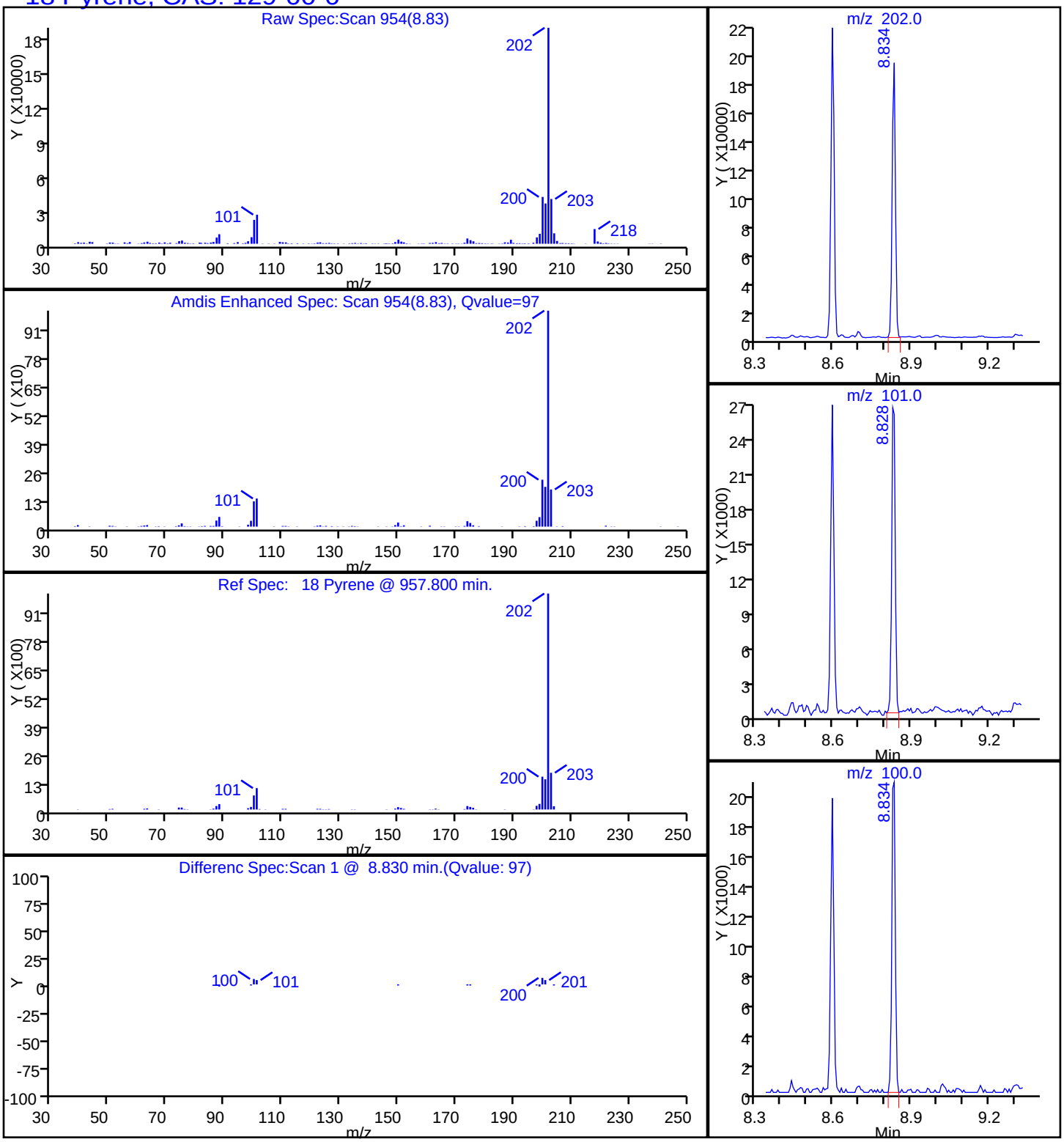
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0312.D				
Injection Date:	03-Nov-2014 14:31:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-4-A	Lab Sample ID:	680-106803-4		
Client ID:	CV0971VV-CS24"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

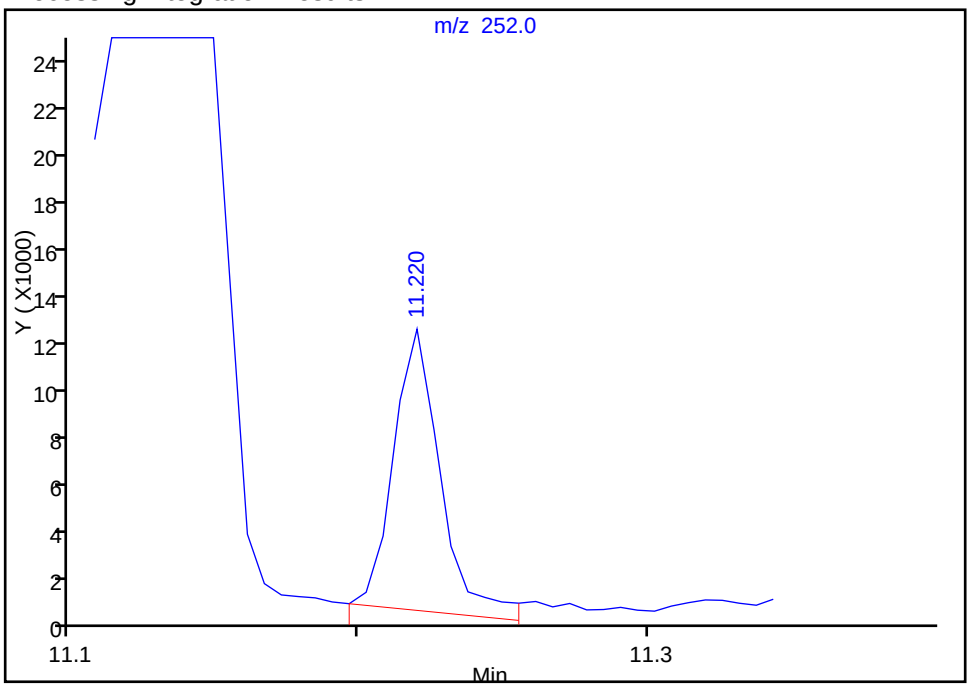
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0312.D				
Injection Date:	03-Nov-2014 14:31:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-4-A	Lab Sample ID:	680-106803-4		
Client ID:	CV0971VV-CS24"				
Operator ID:	RM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

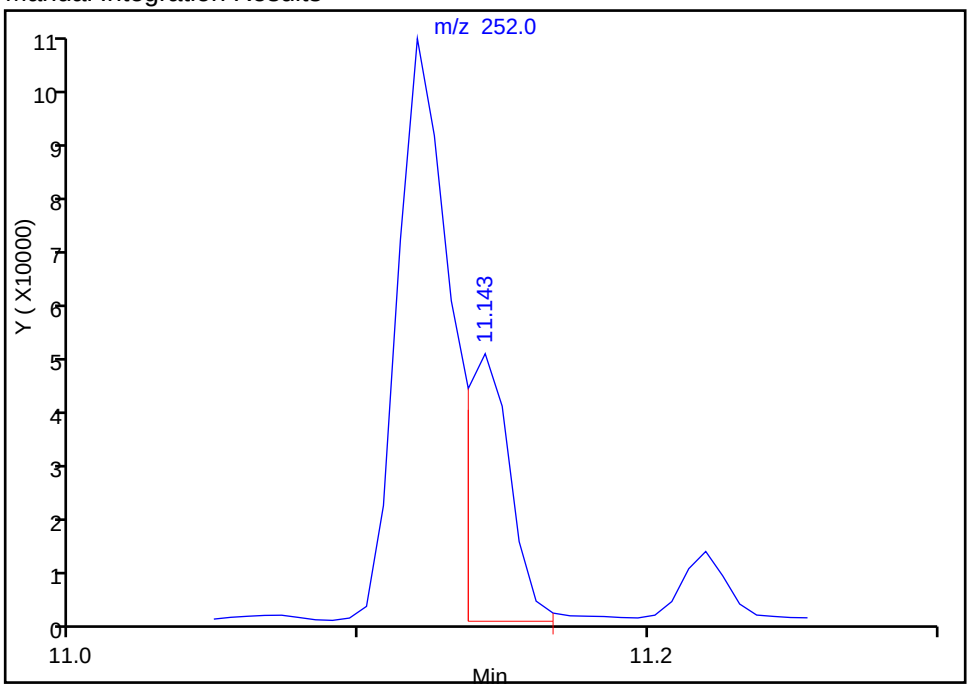
Processing Integration Results

RT: 11.22
Response: 13234
Amount: 0.100357



Manual Integration Results

RT: 11.14
Response: 49922
Amount: 0.378573



Reviewer: webbk, 03-Nov-2014 15:04:53
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971JJ-CS6" | Lab Sample ID: 680-106803-5

Matrix: Solid | Lab File ID: 1KK0313.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 08:40

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.02(g) | Date Analyzed: 11/03/2014 14:54

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

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

% Moisture: 11.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	7.5	U	7.5	3.7
208-96-8	Acenaphthylene	7.5	U	7.5	3.7
120-12-7	Anthracene	4.2	J	7.5	3.7
56-55-3	Benzo[a]anthracene	35		7.5	3.7
50-32-8	Benzo[a]pyrene	38		7.5	1.3
205-99-2	Benzo[b]fluoranthene	64		7.5	3.7
191-24-2	Benzo[g,h,i]perylene	16		7.5	3.7
207-08-9	Benzo[k]fluoranthene	27		7.5	2.2
218-01-9	Chrysene	40		7.5	3.7
53-70-3	Dibenz(a,h)anthracene	5.2	J	7.5	3.7
206-44-0	Fluoranthene	53		7.5	3.7
86-73-7	Fluorene	7.5	U	7.5	3.7
193-39-5	Indeno[1,2,3-cd]pyrene	13		7.5	3.7
90-12-0	1-Methylnaphthalene	6.4	J	7.5	3.5
91-57-6	2-Methylnaphthalene	7.7		7.5	3.7
91-20-3	Naphthalene	5.9	J	7.5	3.7
85-01-8	Phenanthrene	29		7.5	2.7
129-00-0	Pyrene	49		7.5	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	54		36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0313.D
Lims ID: 680-106803-B-5-A Lab Sample ID: 680-106803-5
Client ID: CV0971JJ-CS6"
Sample Type: Client
Inject. Date: 03-Nov-2014 14:54:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-106803-B-5-A
Misc. Info.: 680-0014354-013
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 04-Nov-2014 09:15:09 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 03-Nov-2014 15:26:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.887	3.893	-0.006	99	776313	4.00	s
* 2 Acenaphthene-d10	164	5.662	5.662	0.000	91	455319	4.00	s
* 3 Phenanthrene-d10	188	7.272	7.266	0.006	98	666205	4.00	s
* 4 Chrysene-d12	240	10.098	10.092	0.006	99	444035	4.00	s
* 5 Perylene-d12	264	11.508	11.496	0.012	99	327822	4.00	
$ 6 o-Terphenyl	230	7.712	7.712	0.000	90	147980	1.08	
7 Naphthalene	128	3.905	3.911	-0.006	99	33980	0.1585	
9 2-Methylnaphthalene	142	4.581	4.586	-0.005	85	27141	0.2046	
8 1-Methylnaphthalene	142	4.680	4.680	0.000	93	21552	0.1716	
15 Phenanthrene	178	7.295	7.289	0.006	98	155563	0.7668	
16 Anthracene	178	7.348	7.348	0.000	98	21183	0.1110	
17 Fluoranthene	202	8.594	8.594	0.000	98	287329	1.41	
18 Pyrene	202	8.834	8.829	0.005	97	258728	1.30	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	97	123217	0.9295	
20 Chrysene	228	10.121	10.115	0.006	98	132223	1.06	
21 Benzo[b]fluoranthene	252	11.126	11.114	0.012	98	180987	1.71	
22 Benzo[k]fluoranthene	252	11.138	11.138	0.000	97	79430	0.7240	M
23 Benzo[a]pyrene	252	11.449	11.437	0.012	97	93858	1.01	
24 Indeno[1,2,3-cd]pyrene	276	12.777	12.765	0.012	98	43271	0.3576	
25 Dibenz(a,h)anthracene	278	12.800	12.795	0.005	94	12012	0.1399	
26 Benzo[g,h,i]perylene	276	13.153	13.141	0.012	98	41092	0.4376	

QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test
Review Flags
M - Manually Integrated

Reagents:

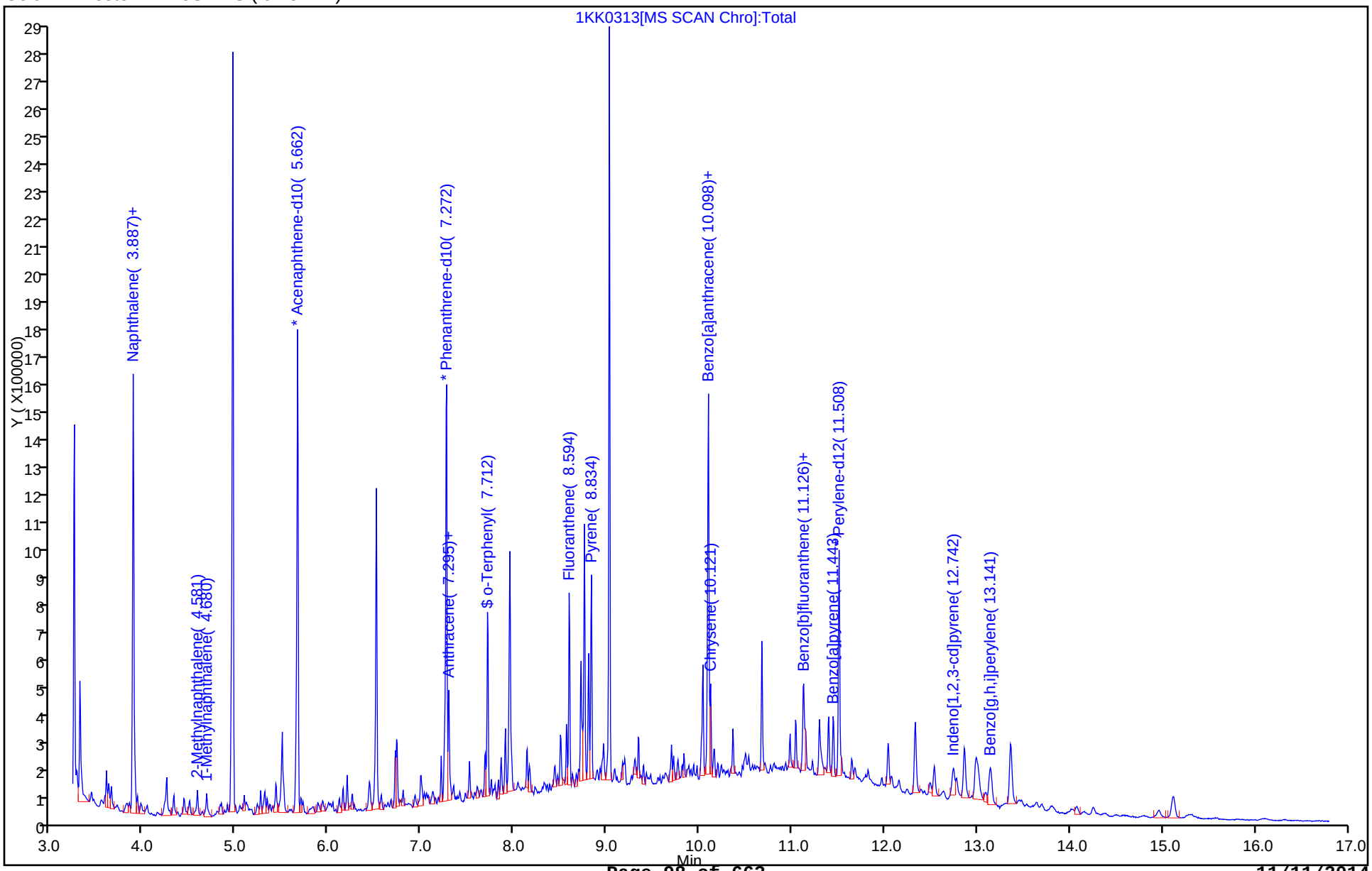
SM-LLISTD_00110 Amount Added: 20.00 Units: uL

Report Date: 04-Nov-2014 09:15:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0313.D				
Injection Date:	03-Nov-2014 14:54:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-5-A	Lab Sample ID:	680-106803-5	Worklist Smp#:	13
Client ID:	CV0971JJ-CS6"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

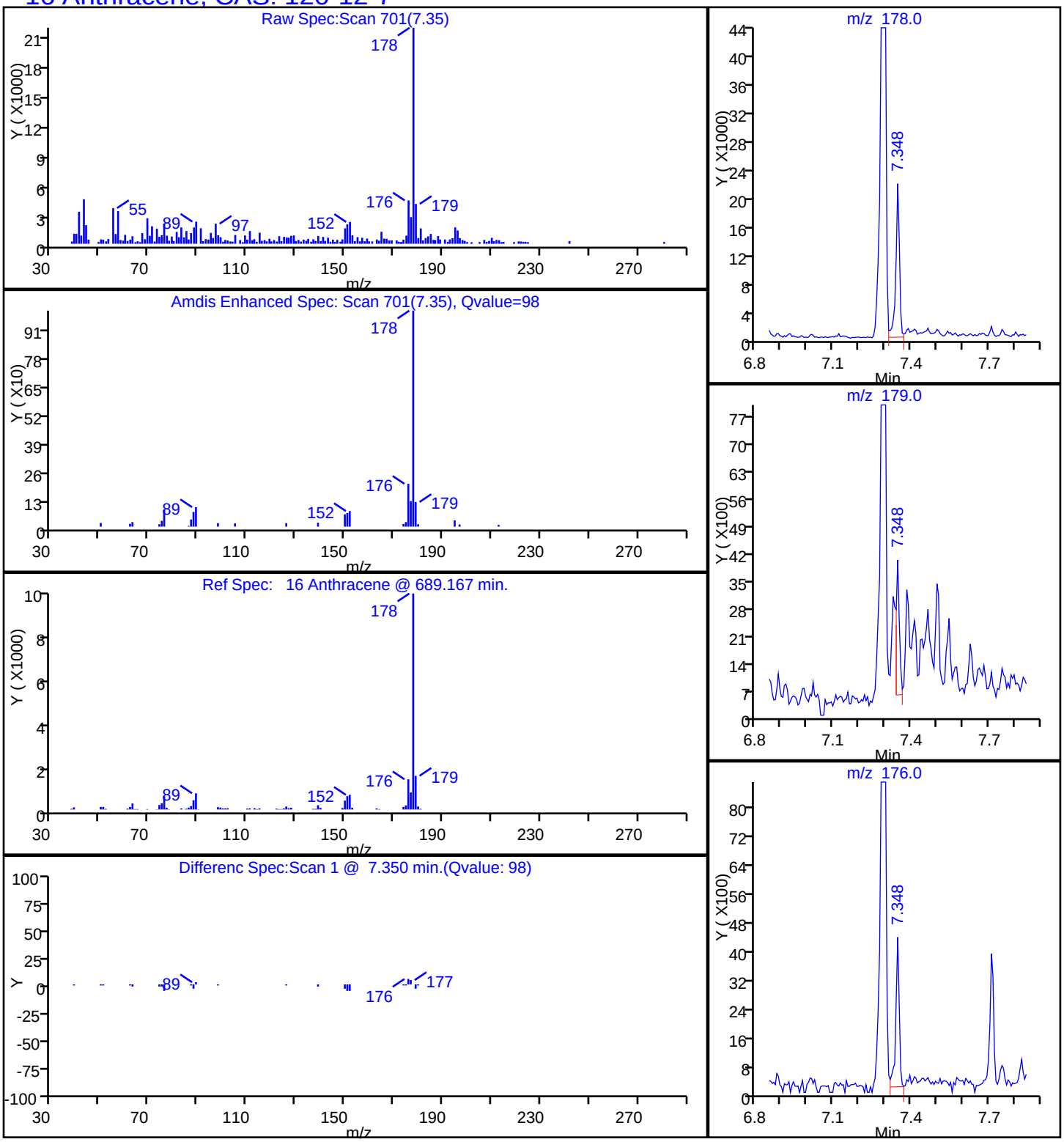


Report Date: 04-Nov-2014 09:15:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0313.D				
Injection Date:	03-Nov-2014 14:54:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-5-A	Lab Sample ID:	680-106803-5		
Client ID:	CV0971JJ-CS6"				
Operator ID:	RM	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

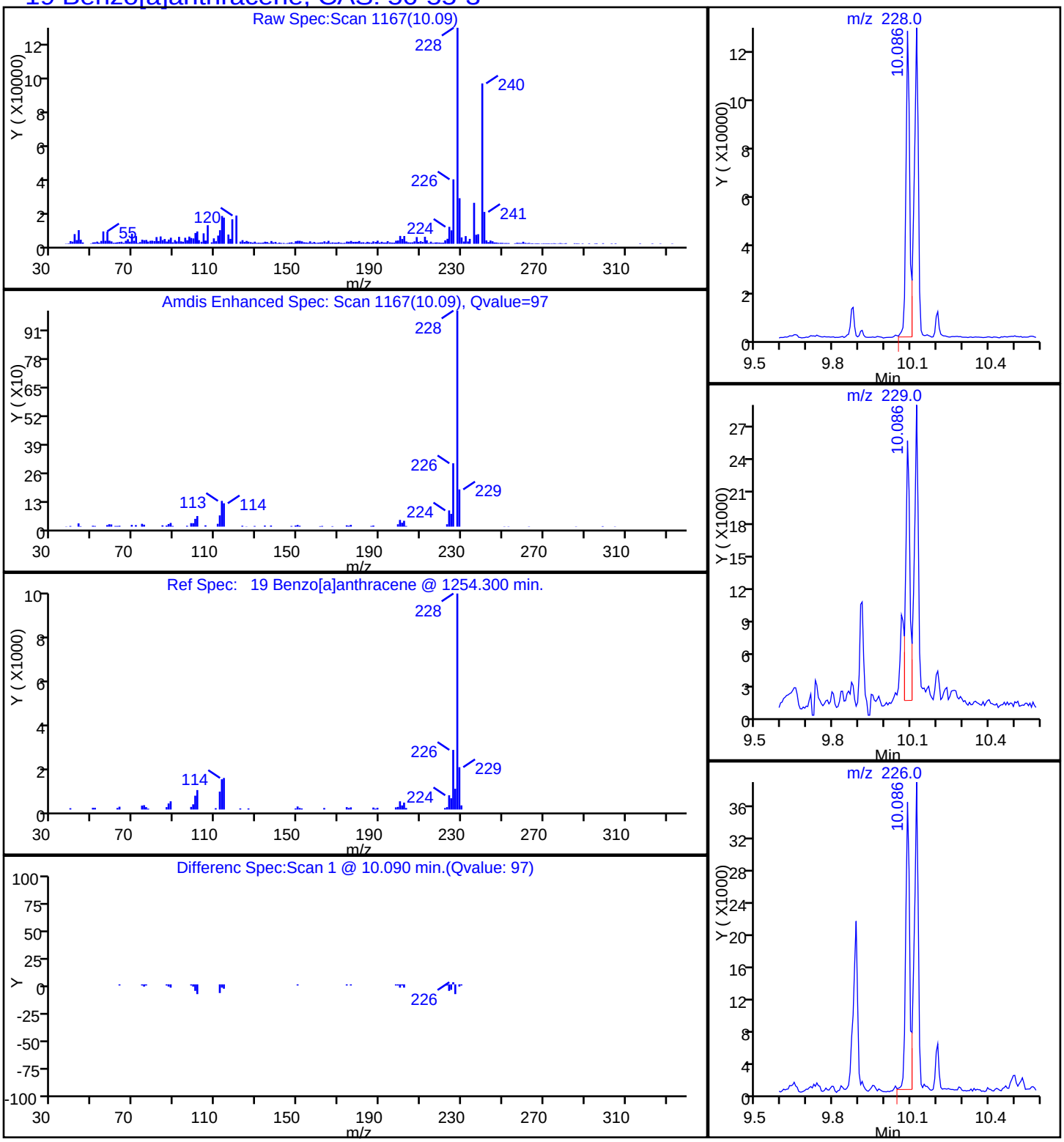


Report Date: 04-Nov-2014 09:15:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0313.D				
Injection Date:	03-Nov-2014 14:54:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-5-A	Lab Sample ID:	680-106803-5		
Client ID:	CV0971JJ-CS6"				
Operator ID:	RM	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

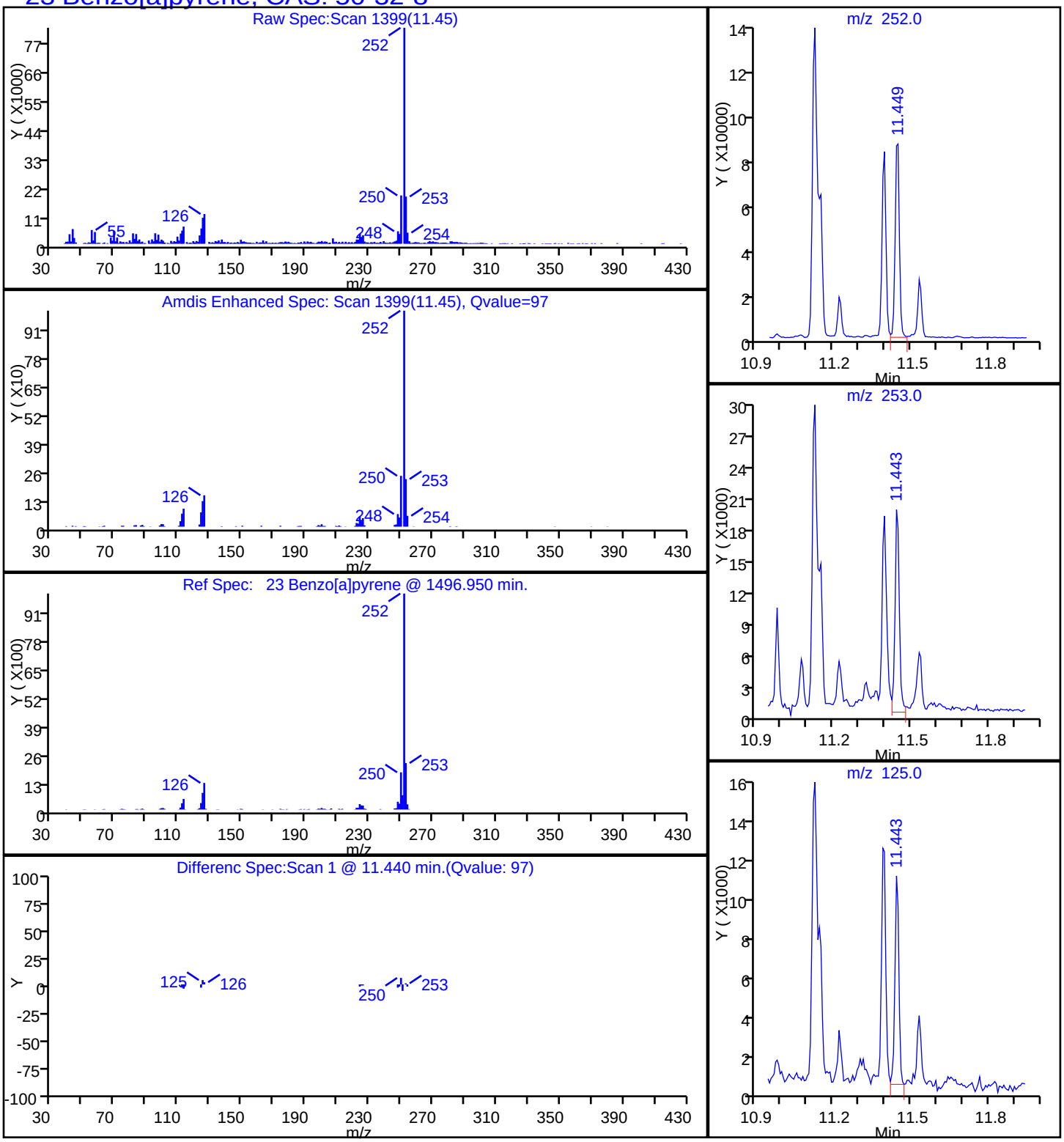


Report Date: 04-Nov-2014 09:15:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0313.D				
Injection Date:	03-Nov-2014 14:54:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-5-A	Lab Sample ID:	680-106803-5		
Client ID:	CV0971JJ-CS6"				
Operator ID:	RM	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

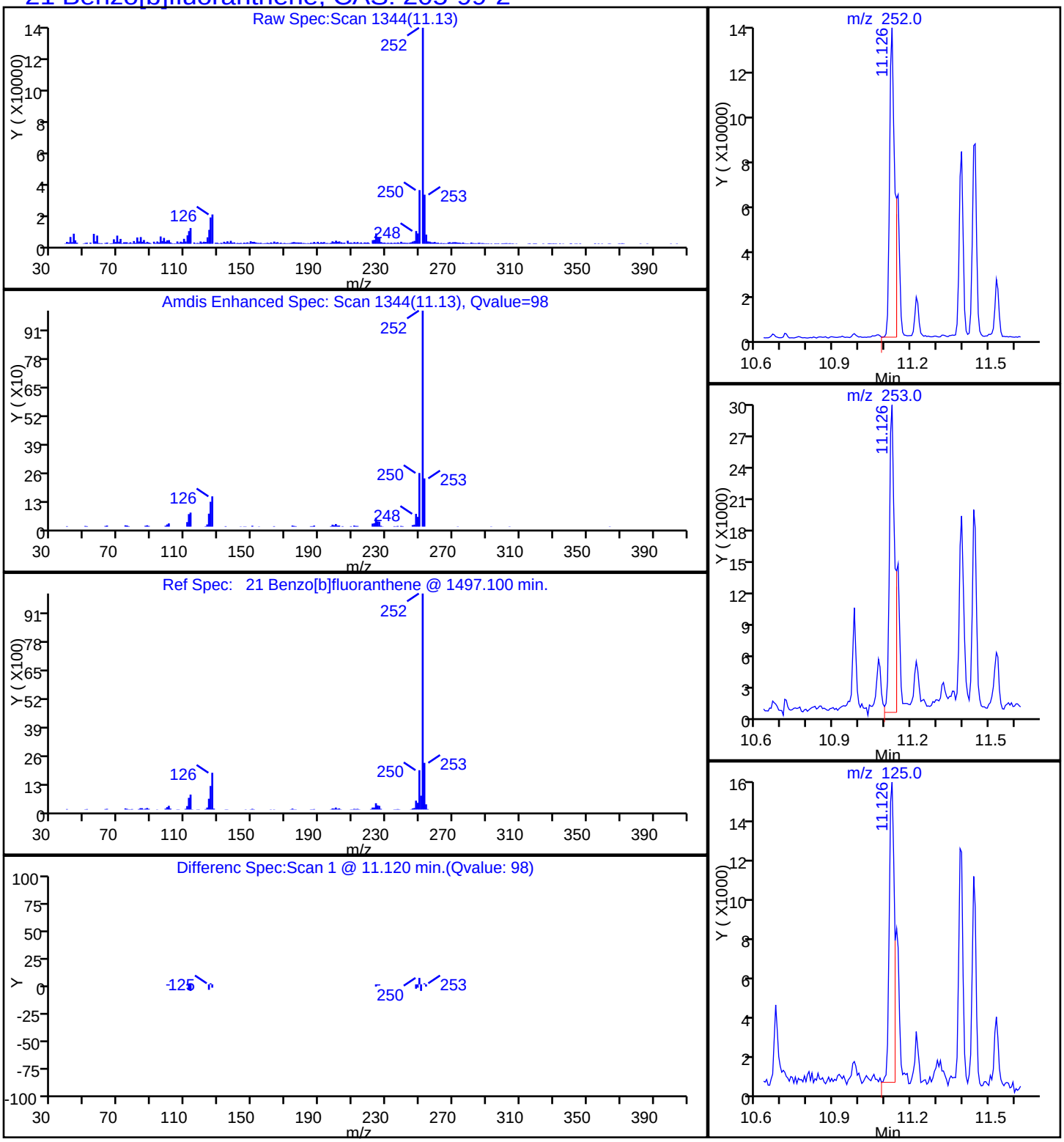


Report Date: 04-Nov-2014 09:15:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0313.D				
Injection Date:	03-Nov-2014 14:54:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-5-A	Lab Sample ID:	680-106803-5		
Client ID:	CV0971JJ-CS6"				
Operator ID:	RM	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

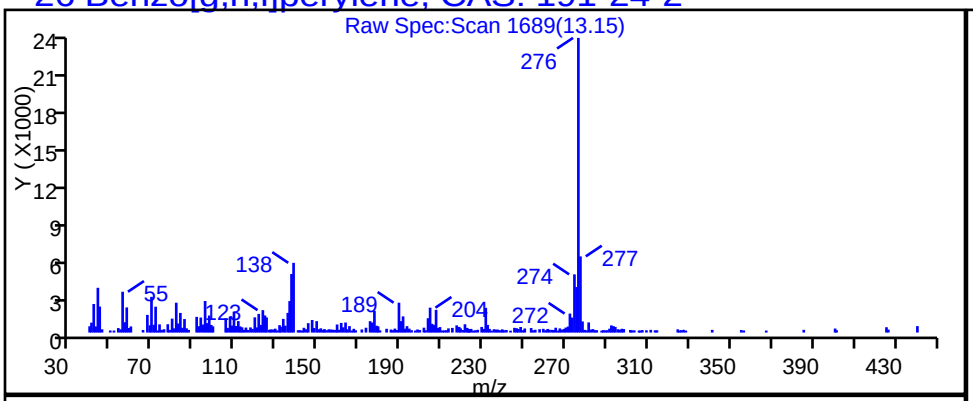


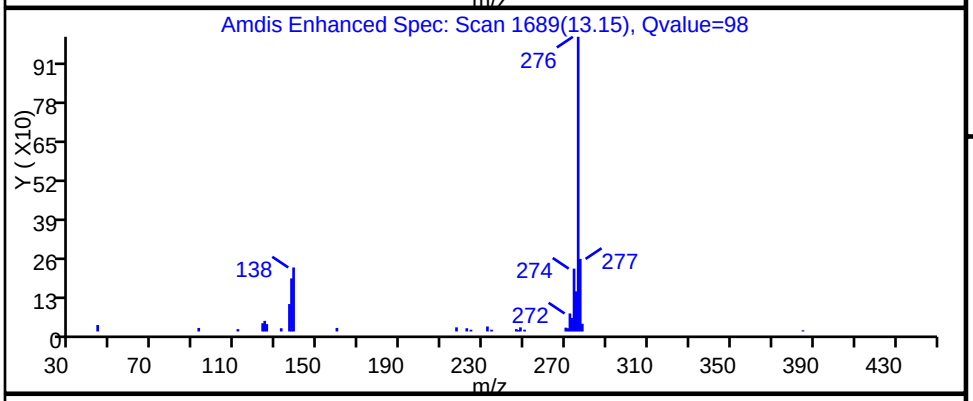
Report Date: 04-Nov-2014 09:15:28 Chrom Revision: 2.2 07-Oct-2014 12:16:06

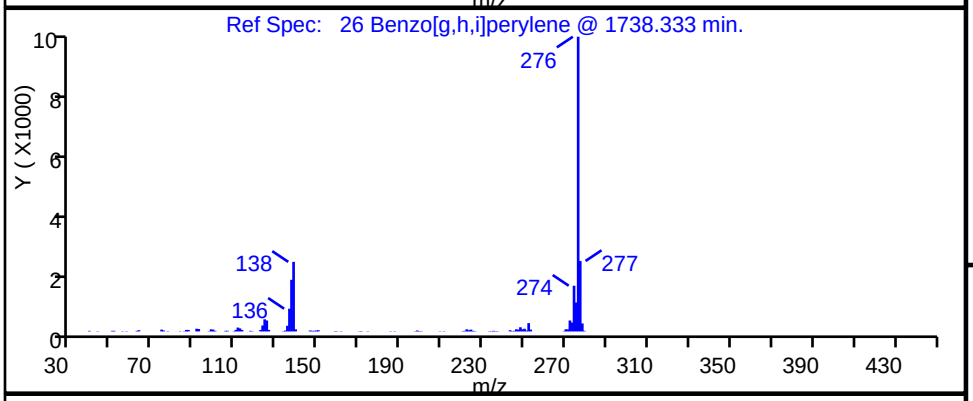
TestAmerica Savannah

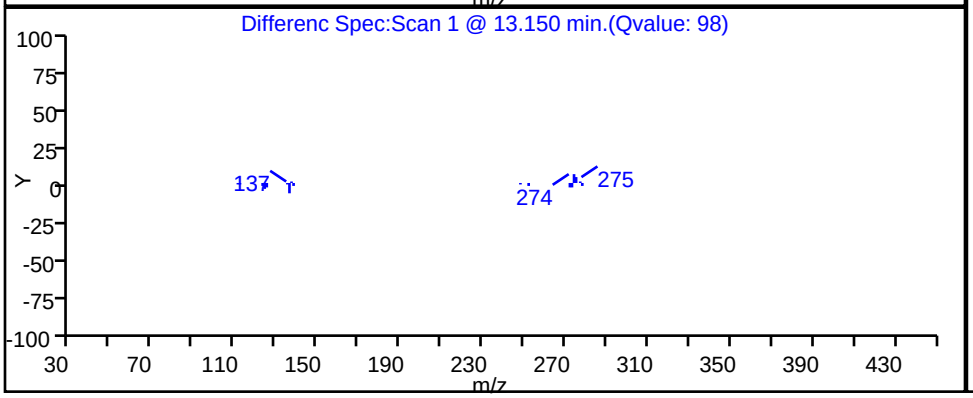
Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0313.D				
Injection Date:	03-Nov-2014 14:54:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-5-A	Lab Sample ID:	680-106803-5		
Client ID:	CV0971JJ-CS6"				
Operator ID:	RM	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

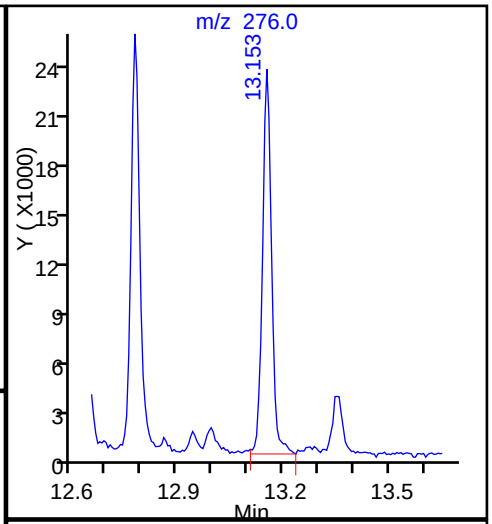
26 Benzo[g,h,i]perylene, CAS: 191-24-2

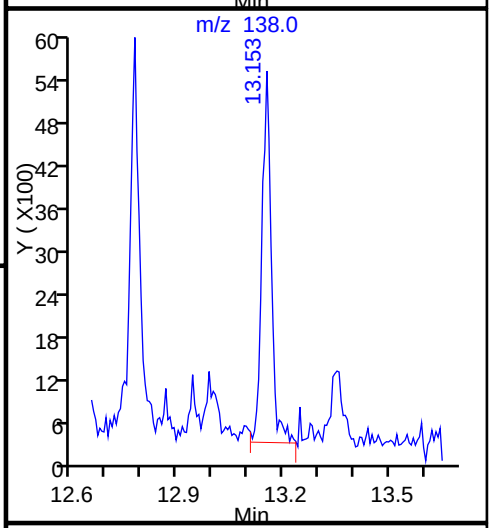


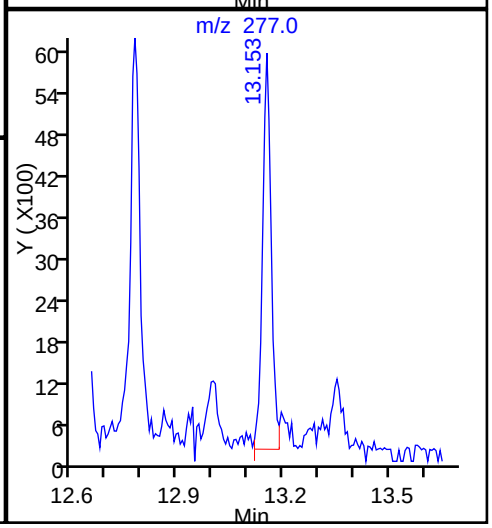










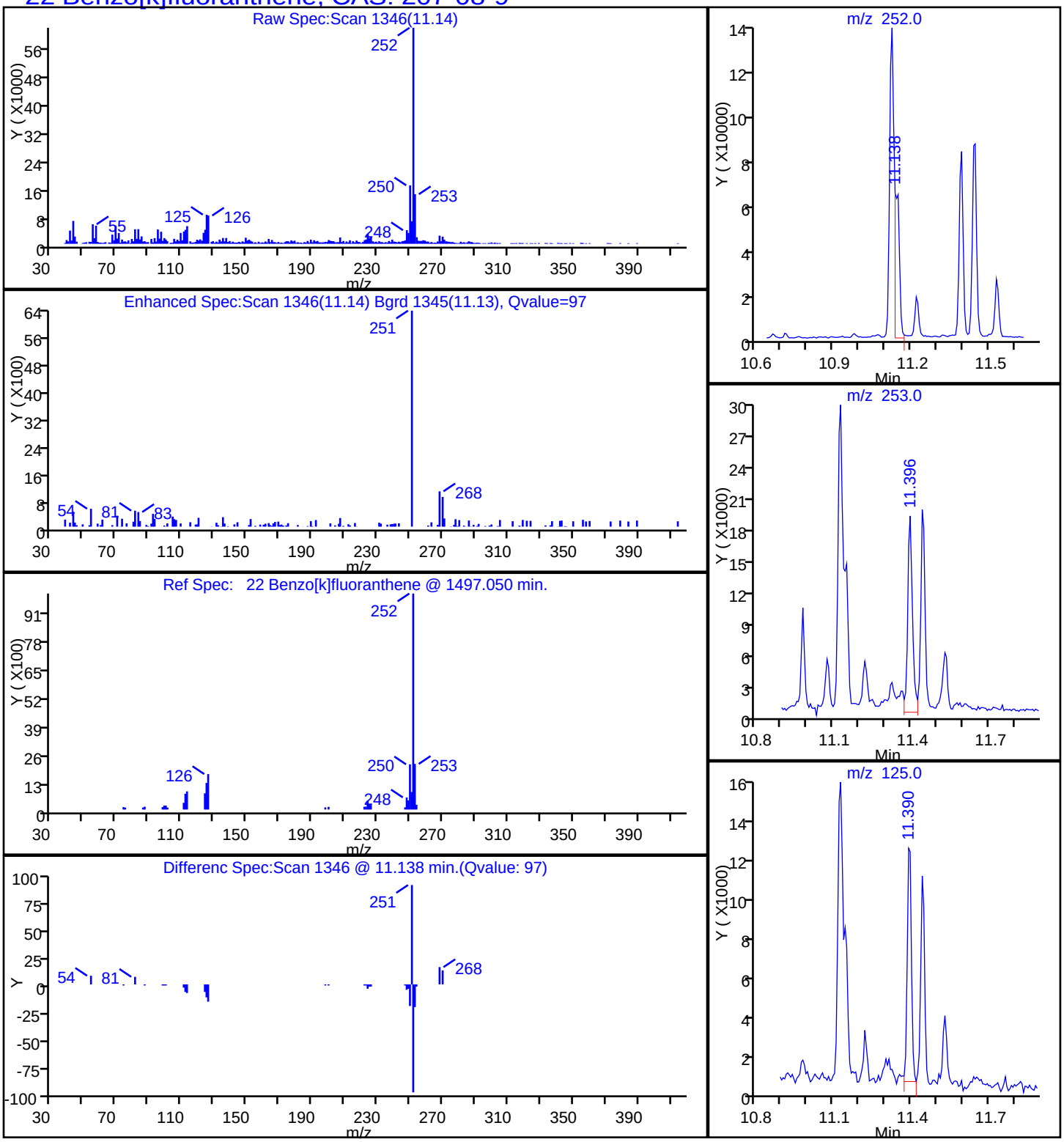


Report Date: 04-Nov-2014 09:15:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0313.D				
Injection Date:	03-Nov-2014 14:54:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-5-A	Lab Sample ID:	680-106803-5		
Client ID:	CV0971JJ-CS6"				
Operator ID:	RM	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

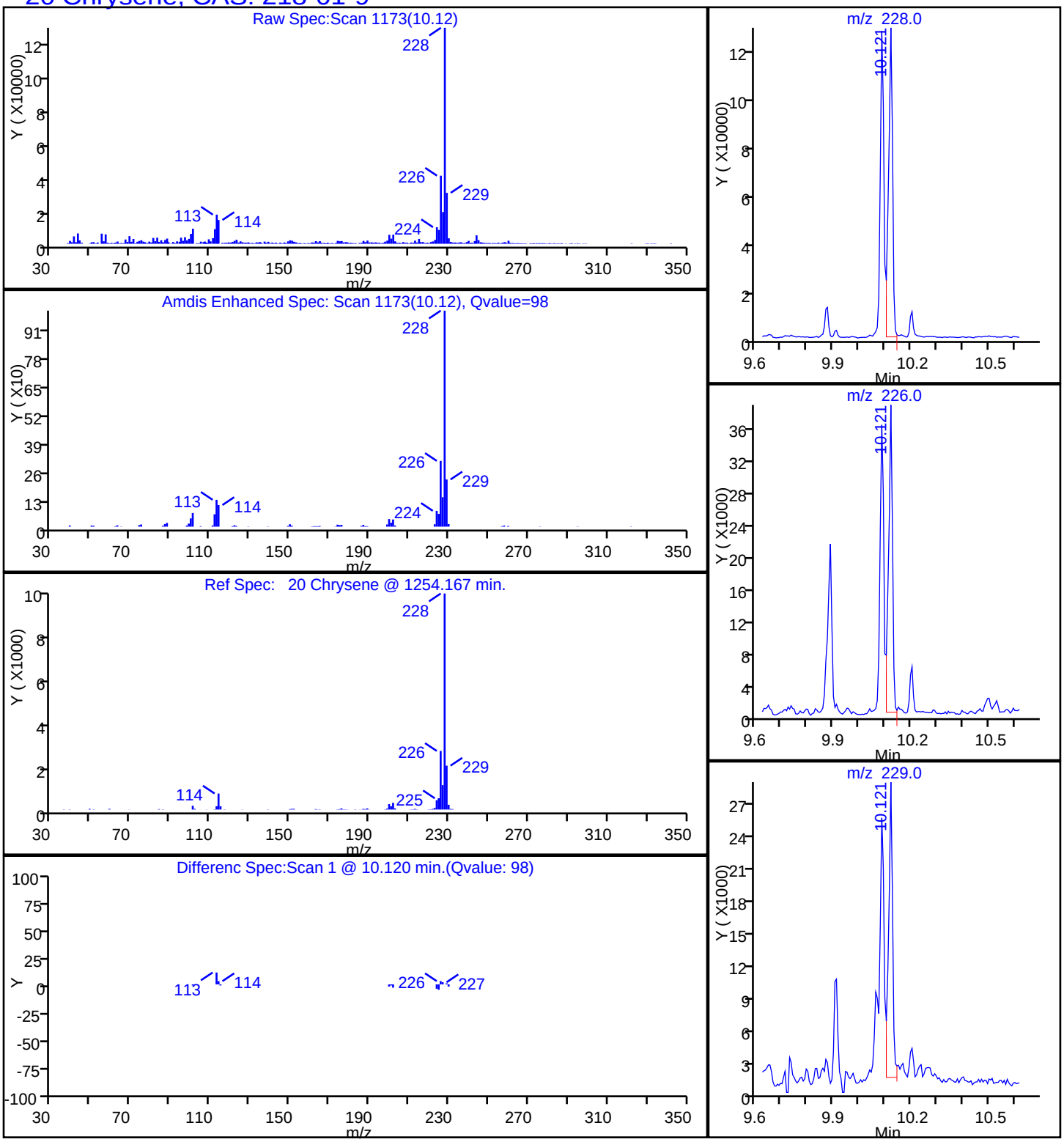


Report Date: 04-Nov-2014 09:15:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0313.D				
Injection Date:	03-Nov-2014 14:54:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-5-A	Lab Sample ID:	680-106803-5		
Client ID:	CV0971JJ-CS6"				
Operator ID:	RM	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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: 04-Nov-2014 09:15:28 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

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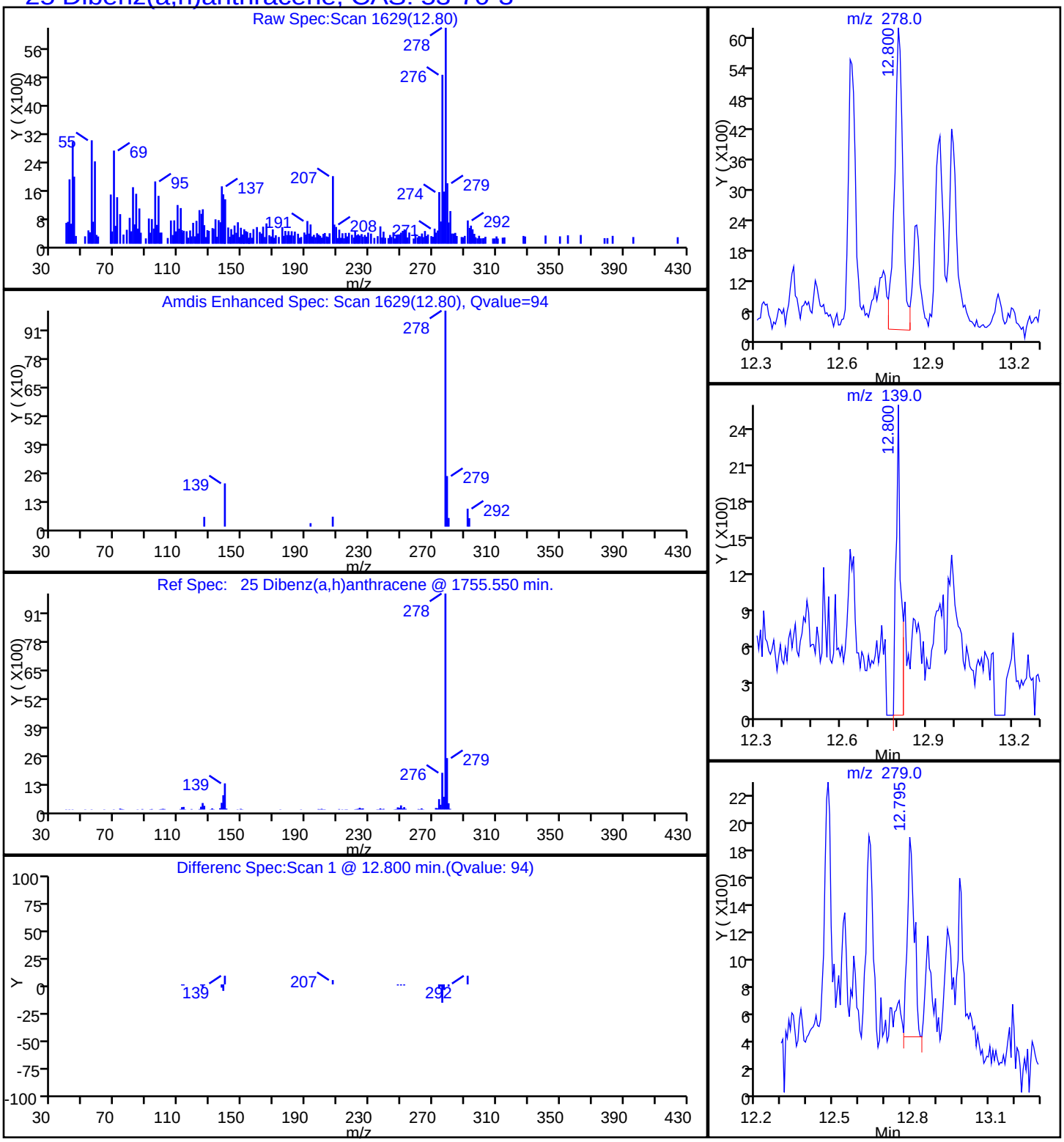
Lims ID:	680-106803-B-5-A	Lab Sample ID:	680-106803-5		
Client ID:	CV0971JJ-CS6"				
Operator ID:	RM	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

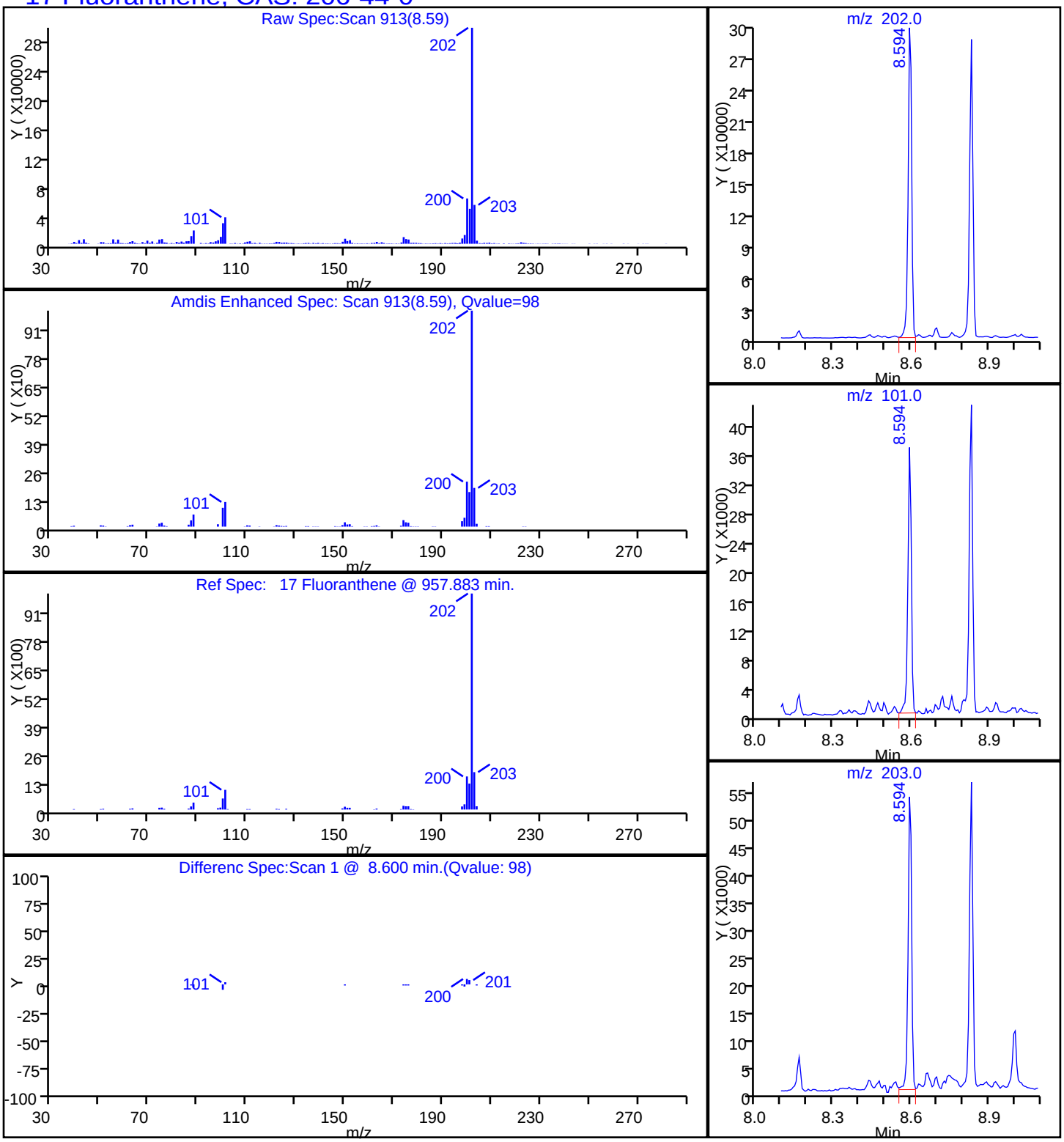


Report Date: 04-Nov-2014 09:15:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0313.D				
Injection Date:	03-Nov-2014 14:54:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-5-A	Lab Sample ID:	680-106803-5		
Client ID:	CV0971JJ-CS6"				
Operator ID:	RM	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

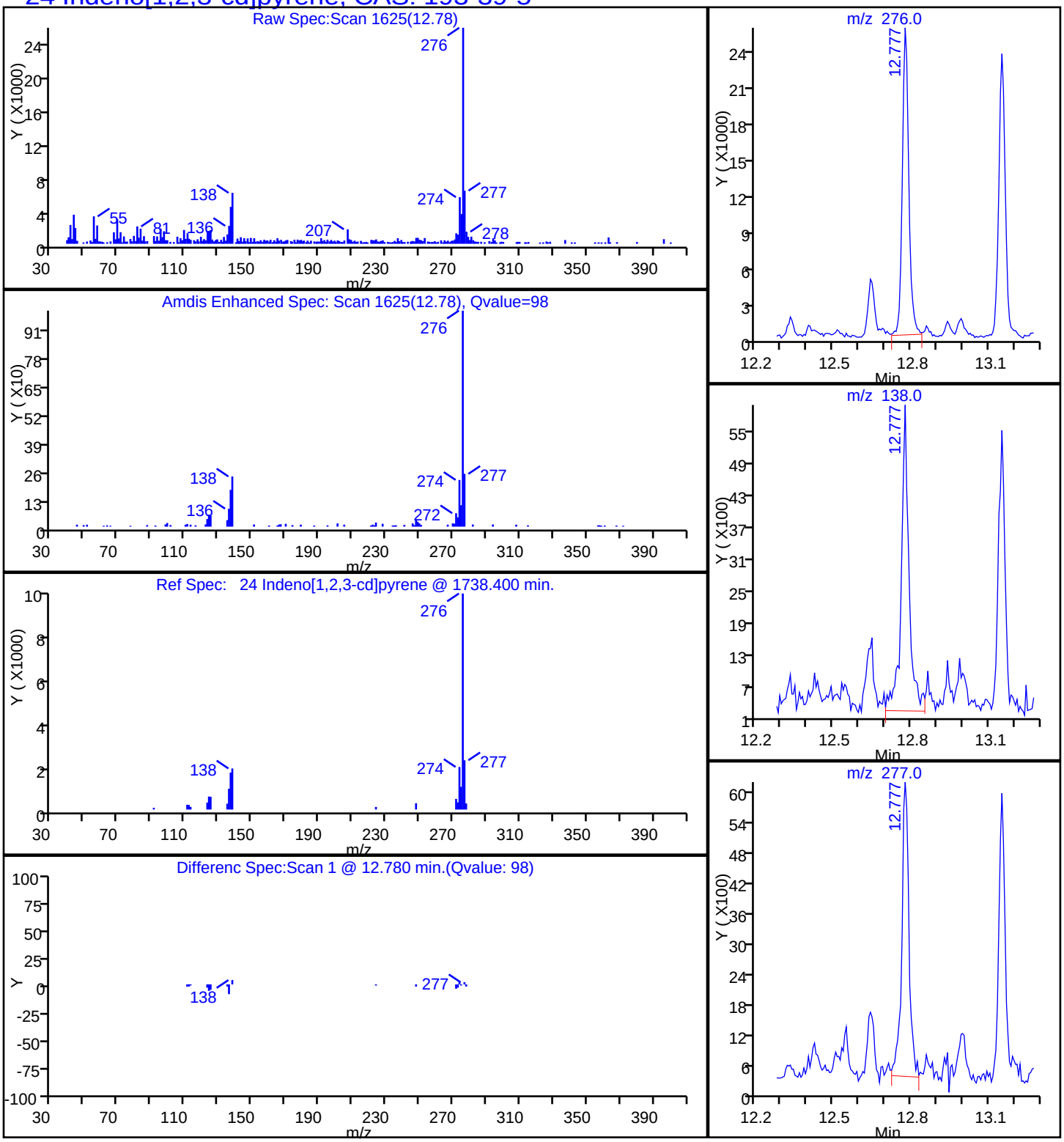


Report Date: 04-Nov-2014 09:15:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0313.D				
Injection Date:	03-Nov-2014 14:54:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-5-A	Lab Sample ID:	680-106803-5		
Client ID:	CV0971JJ-CS6"				
Operator ID:	RM	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

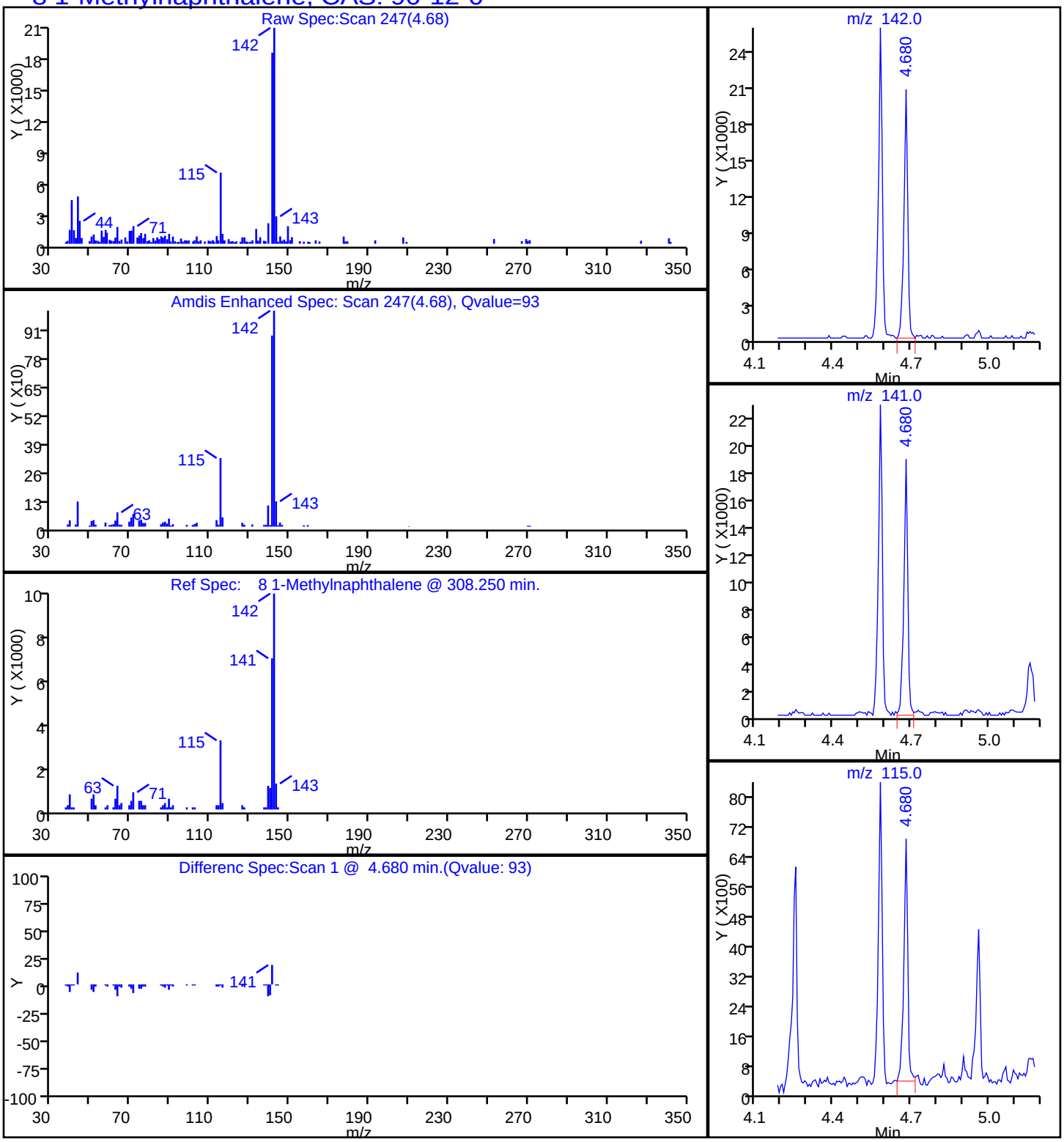


Report Date: 04-Nov-2014 09:15:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0313.D				
Injection Date:	03-Nov-2014 14:54:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-5-A	Lab Sample ID:	680-106803-5		
Client ID:	CV0971JJ-CS6"				
Operator ID:	RM	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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: 04-Nov-2014 09:15:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0313.D				
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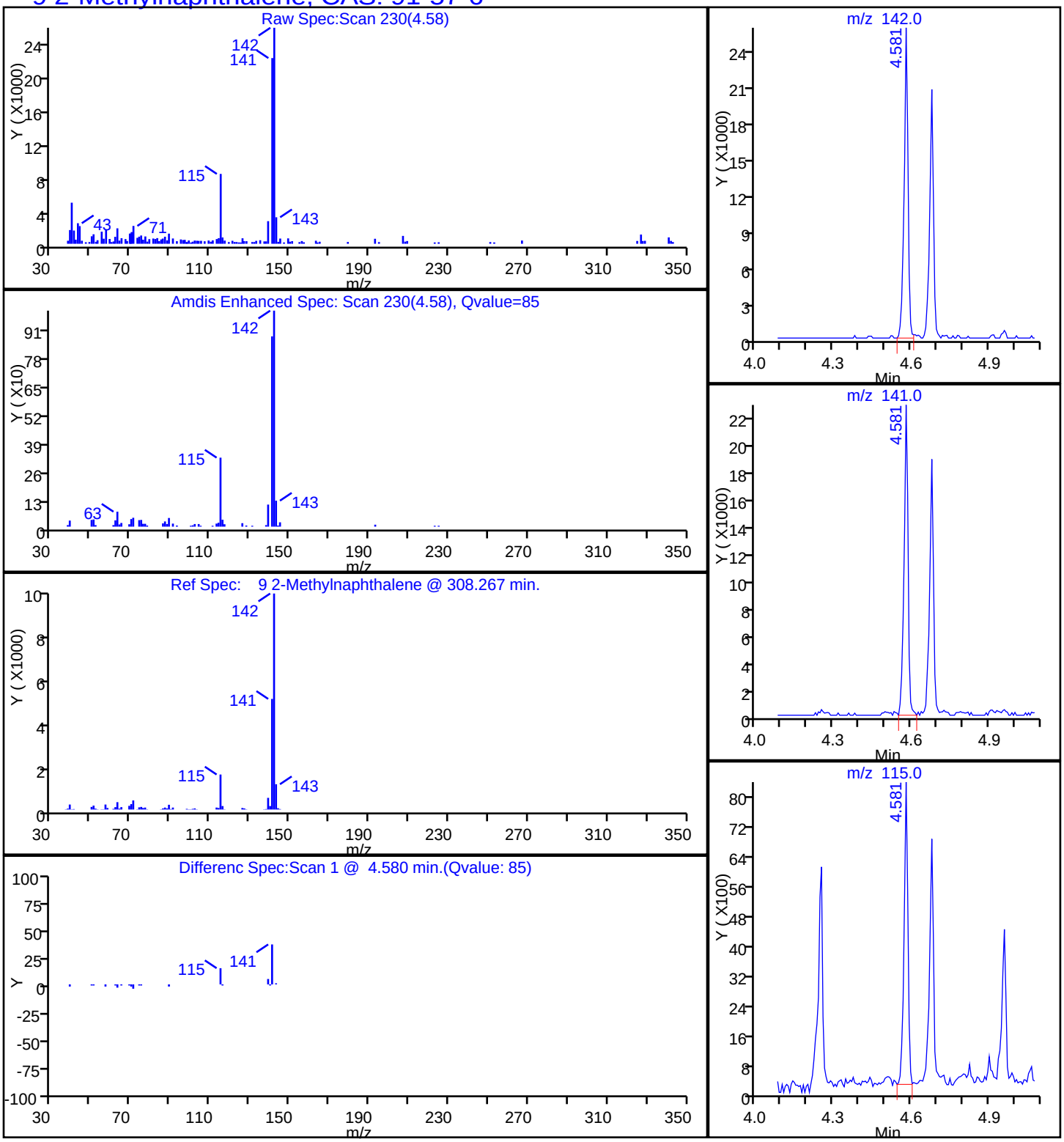
Lims ID:	680-106803-B-5-A	Lab Sample ID:	680-106803-5		
Client ID:	CV0971JJ-CS6"				
Operator ID:	RM	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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



Report Date: 04-Nov-2014 09:15:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0313.D				
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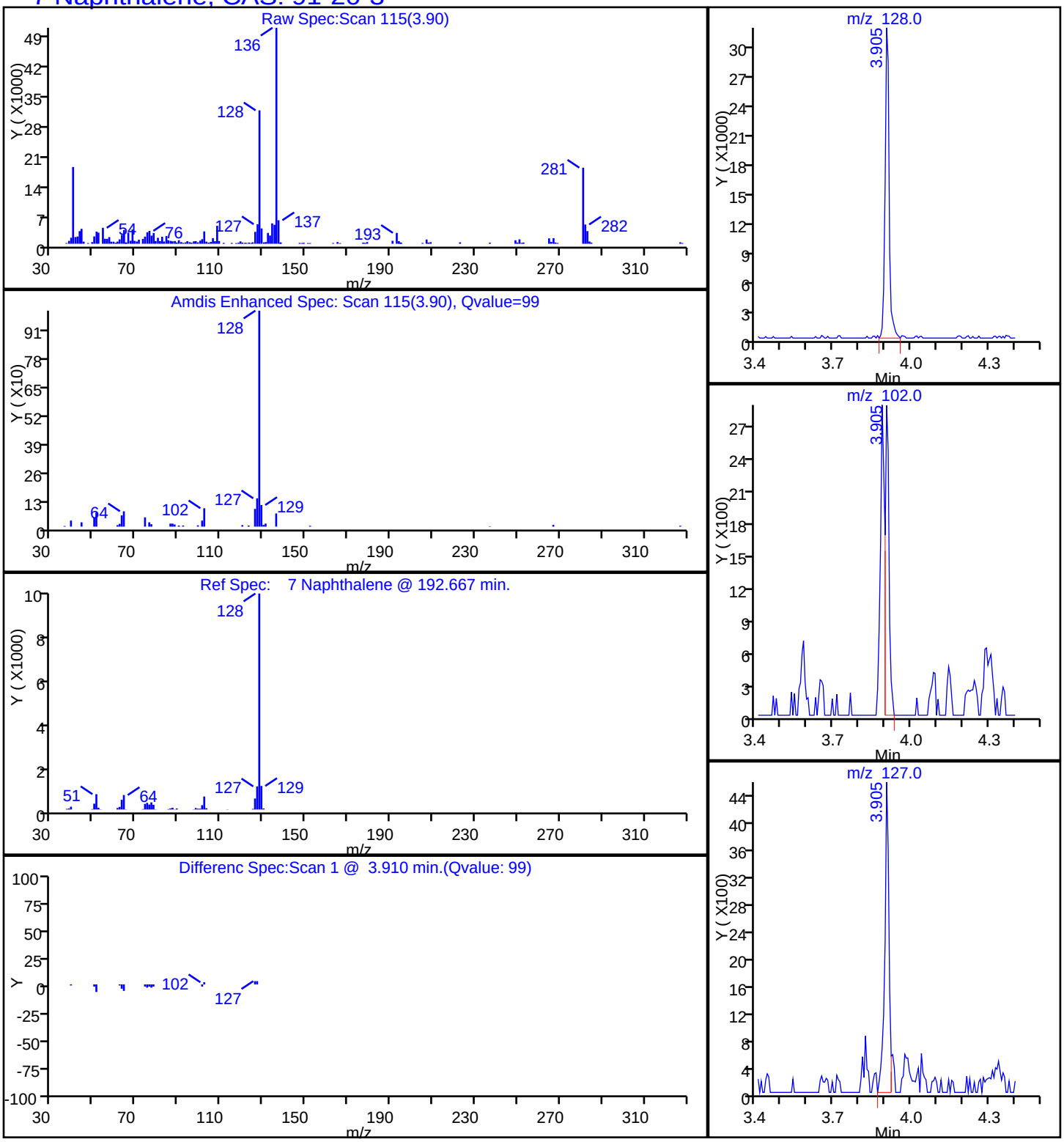
Lims ID:	680-106803-B-5-A	Lab Sample ID:	680-106803-5		
Client ID:	CV0971JJ-CS6"				
Operator ID:	RM	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Naphthalene, CAS: 91-20-3

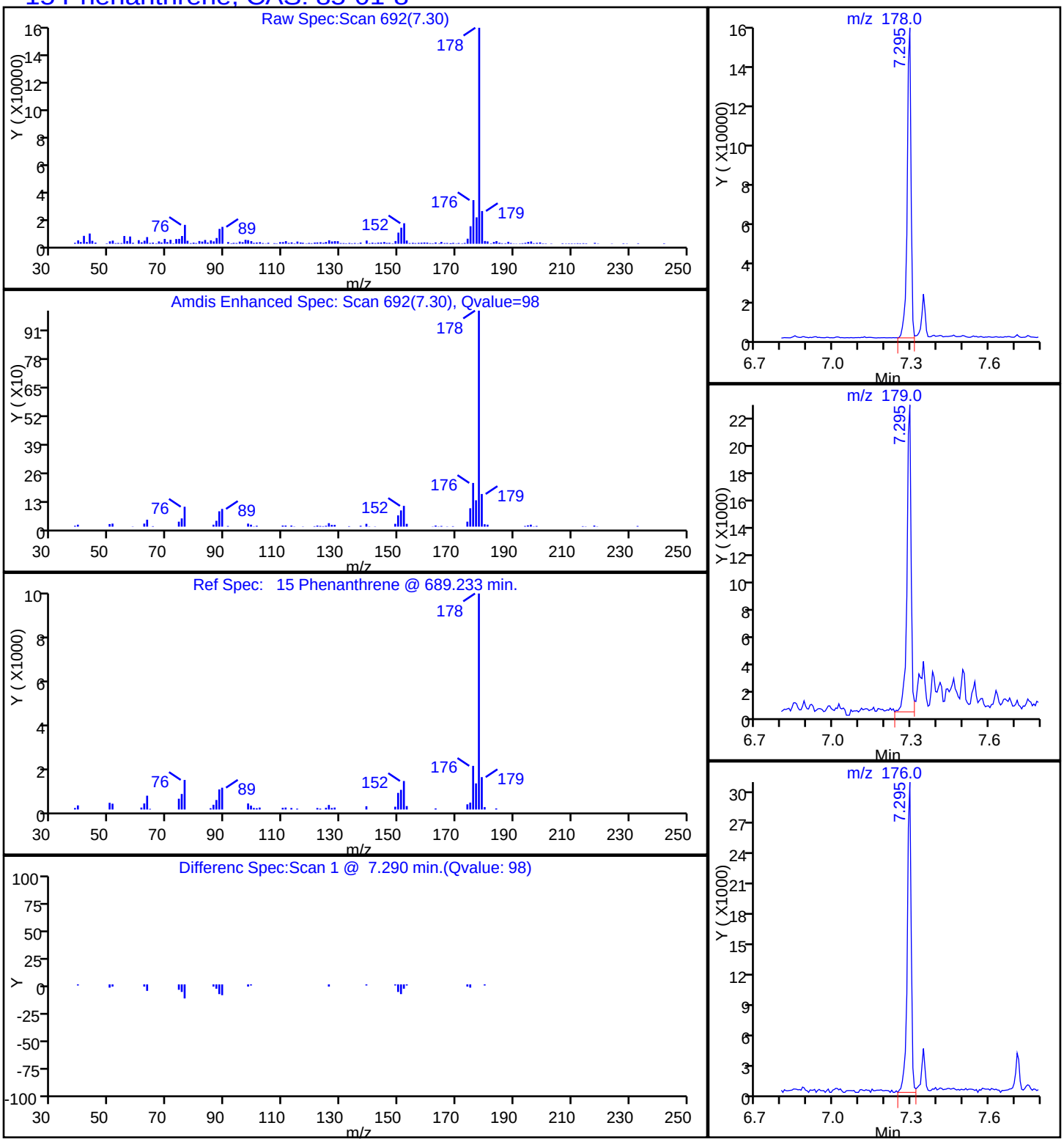


Report Date: 04-Nov-2014 09:15:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0313.D				
Injection Date:	03-Nov-2014 14:54:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-5-A	Lab Sample ID:	680-106803-5		
Client ID:	CV0971JJ-CS6"				
Operator ID:	RM	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

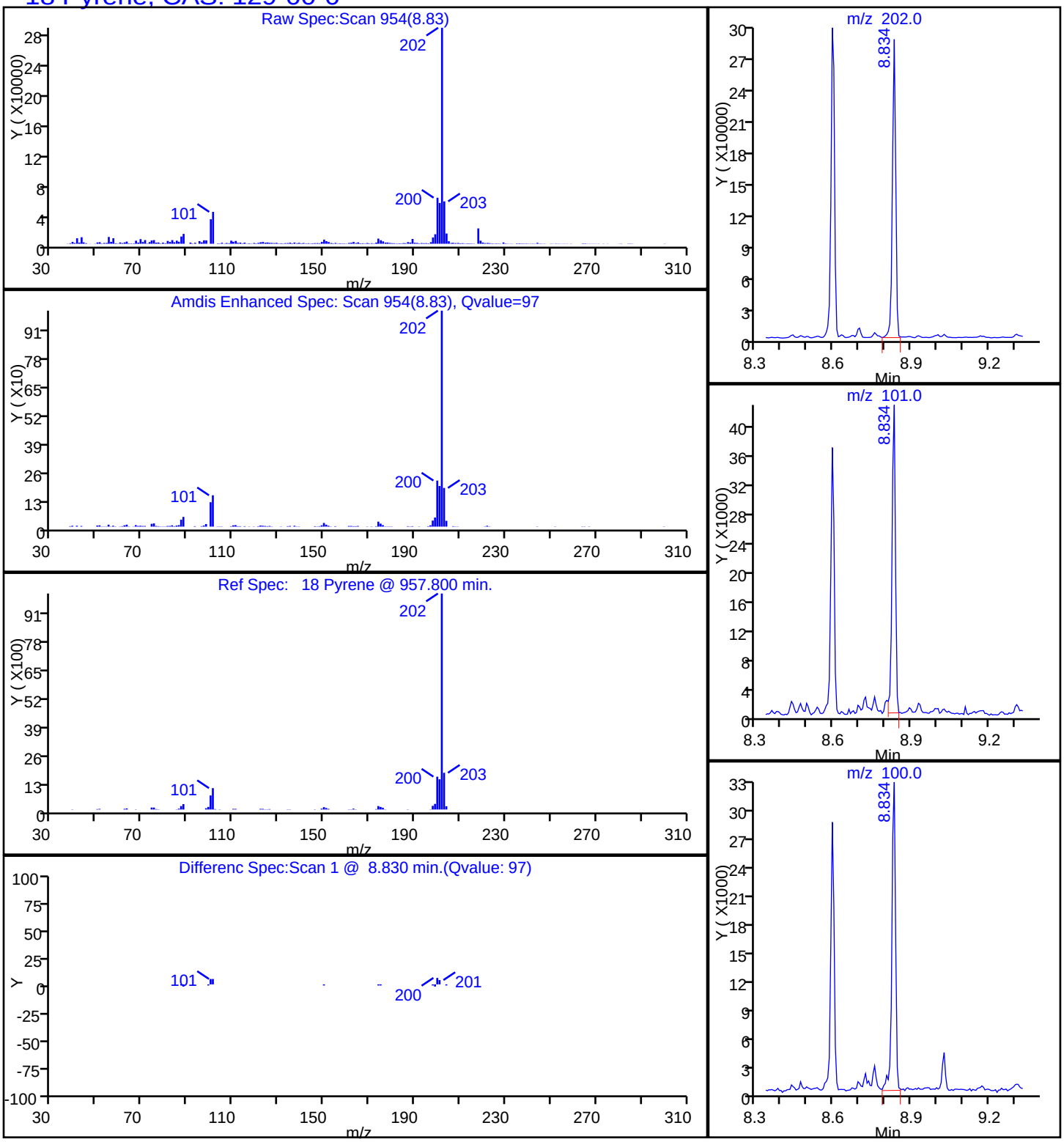


Report Date: 04-Nov-2014 09:15:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0313.D				
Injection Date:	03-Nov-2014 14:54:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-5-A	Lab Sample ID:	680-106803-5		
Client ID:	CV0971JJ-CS6"				
Operator ID:	RM	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

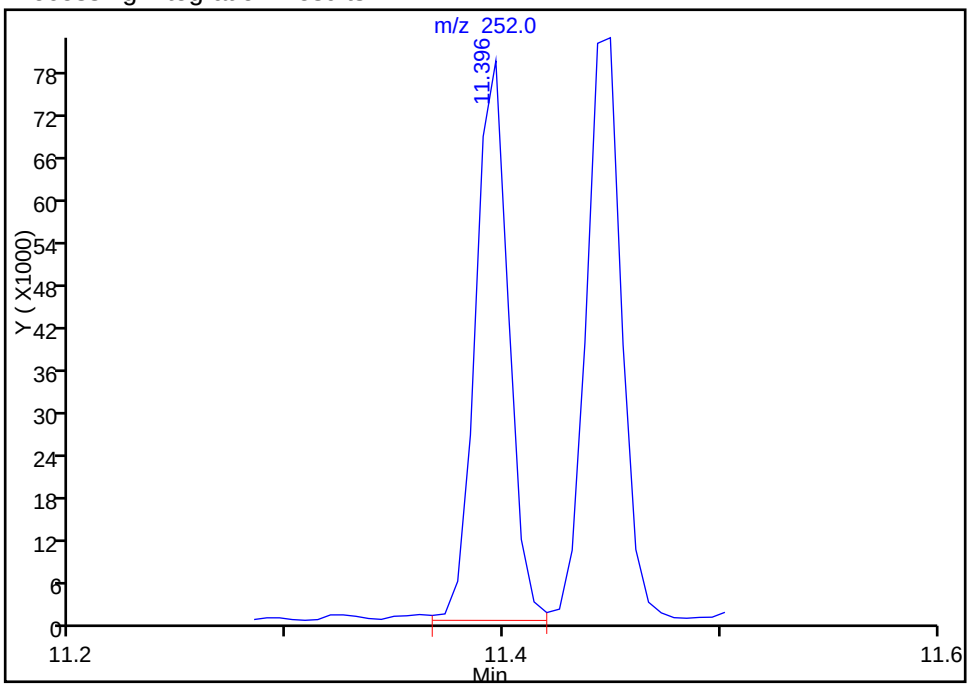
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0313.D				
Injection Date:	03-Nov-2014 14:54:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-5-A	Lab Sample ID:	680-106803-5		
Client ID:	CV0971JJ-CS6"				
Operator ID:	RM	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

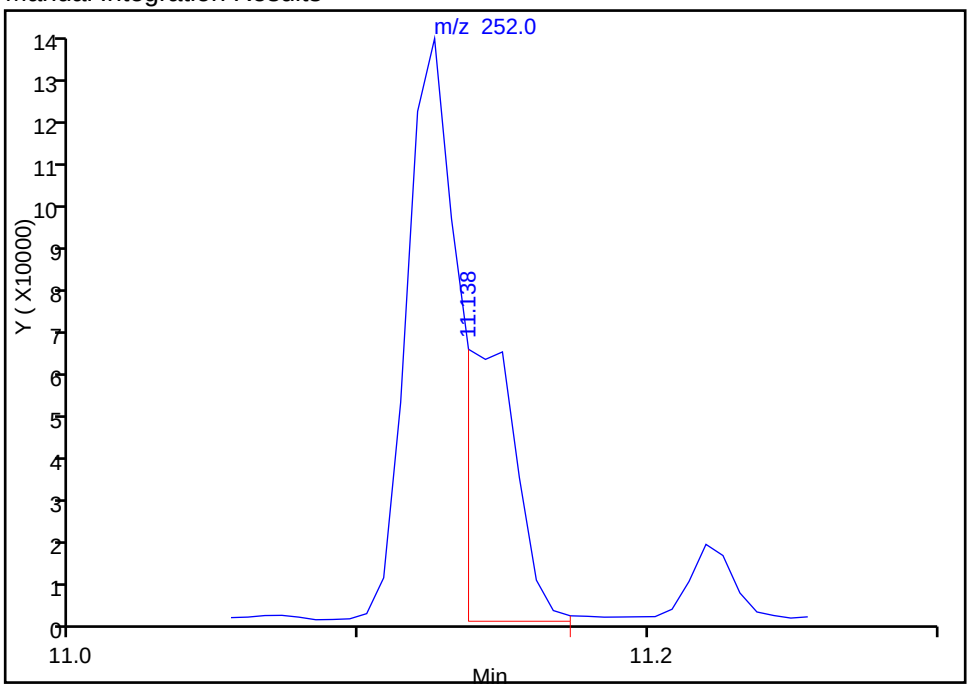
Processing Integration Results

RT: 11.40
Response: 83524
Amount: 0.761264



Manual Integration Results

RT: 11.14
Response: 79430
Amount: 0.723950



Reviewer: webbk, 03-Nov-2014 15:26:30
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971JJ-CSD6" | Lab Sample ID: 680-106803-6

Matrix: Solid | Lab File ID: 1KK0314.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 08:45

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.05(g) | Date Analyzed: 11/03/2014 15:17

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

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

% Moisture: 14.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	7.8	U	7.8	3.9
208-96-8	Acenaphthylene	7.8	U	7.8	3.9
120-12-7	Anthracene	6.5	J	7.8	3.9
56-55-3	Benzo[a]anthracene	39		7.8	3.9
50-32-8	Benzo[a]pyrene	43		7.8	1.4
205-99-2	Benzo[b]fluoranthene	68		7.8	3.9
191-24-2	Benzo[g,h,i]perylene	19		7.8	3.9
207-08-9	Benzo[k]fluoranthene	27		7.8	2.3
218-01-9	Chrysene	43		7.8	3.9
53-70-3	Dibenz(a,h)anthracene	4.8	J	7.8	3.9
206-44-0	Fluoranthene	61		7.8	3.9
86-73-7	Fluorene	7.8	U	7.8	3.9
193-39-5	Indeno[1,2,3-cd]pyrene	15		7.8	3.9
90-12-0	1-Methylnaphthalene	6.0	J	7.8	3.6
91-57-6	2-Methylnaphthalene	8.4		7.8	3.9
91-20-3	Naphthalene	5.1	J	7.8	3.9
85-01-8	Phenanthrene	35		7.8	2.8
129-00-0	Pyrene	53		7.8	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	54		36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0314.D
Lims ID: 680-106803-B-6-A Lab Sample ID: 680-106803-6
Client ID: CV0971JJ-CSD6"
Sample Type: Client
Inject. Date: 03-Nov-2014 15:17:30 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-106803-B-6-A
Misc. Info.: 680-0014354-014
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 04-Nov-2014 09:15:09 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 03-Nov-2014 16:51:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.887	3.893	-0.006	99	834874	4.00	s
* 2 Acenaphthene-d10	164	5.662	5.662	0.000	92	500093	4.00	s
* 3 Phenanthrene-d10	188	7.271	7.266	0.005	98	732750	4.00	s
* 4 Chrysene-d12	240	10.098	10.092	0.006	99	490751	4.00	s
* 5 Perylene-d12	264	11.508	11.496	0.012	99	342870	4.00	
$ 6 o-Terphenyl	230	7.712	7.712	0.000	90	163037	1.07	
7 Naphthalene	128	3.911	3.911	0.000	99	30255	0.1313	
9 2-Methylnaphthalene	142	4.580	4.586	-0.006	85	30688	0.2151	
8 1-Methylnaphthalene	142	4.680	4.680	0.000	92	20628	0.1528	
12 Acenaphthene	153	5.697	5.697	0.000	95	10920	0.0674	
14 Fluorene	166	6.249	6.249	0.000	95	11747	0.0764	
15 Phenanthrene	178	7.295	7.289	0.006	97	199070	0.8921	
16 Anthracene	178	7.348	7.348	0.000	98	35001	0.1668	
17 Fluoranthene	202	8.593	8.594	-0.001	98	348546	1.56	
18 Pyrene	202	8.834	8.829	0.005	97	300010	1.36	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	97	145771	0.99	
20 Chrysene	228	10.121	10.115	0.006	98	152157	1.10	
21 Benzo[b]fluoranthene	252	11.120	11.114	0.006	98	192798	1.74	
22 Benzo[k]fluoranthene	252	11.143	11.138	0.005	97	79611	0.6938	M
23 Benzo[a]pyrene	252	11.443	11.437	0.006	97	107633	1.11	
24 Indeno[1,2,3-cd]pyrene	276	12.777	12.765	0.012	97	51376	0.3841	
25 Dibenz(a,h)anthracene	278	12.800	12.795	0.005	92	10957	0.1220	
26 Benzo[g,h,i]perylene	276	13.153	13.141	0.012	98	47698	0.4857	

QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test
Review Flags
M - Manually Integrated

Reagents:

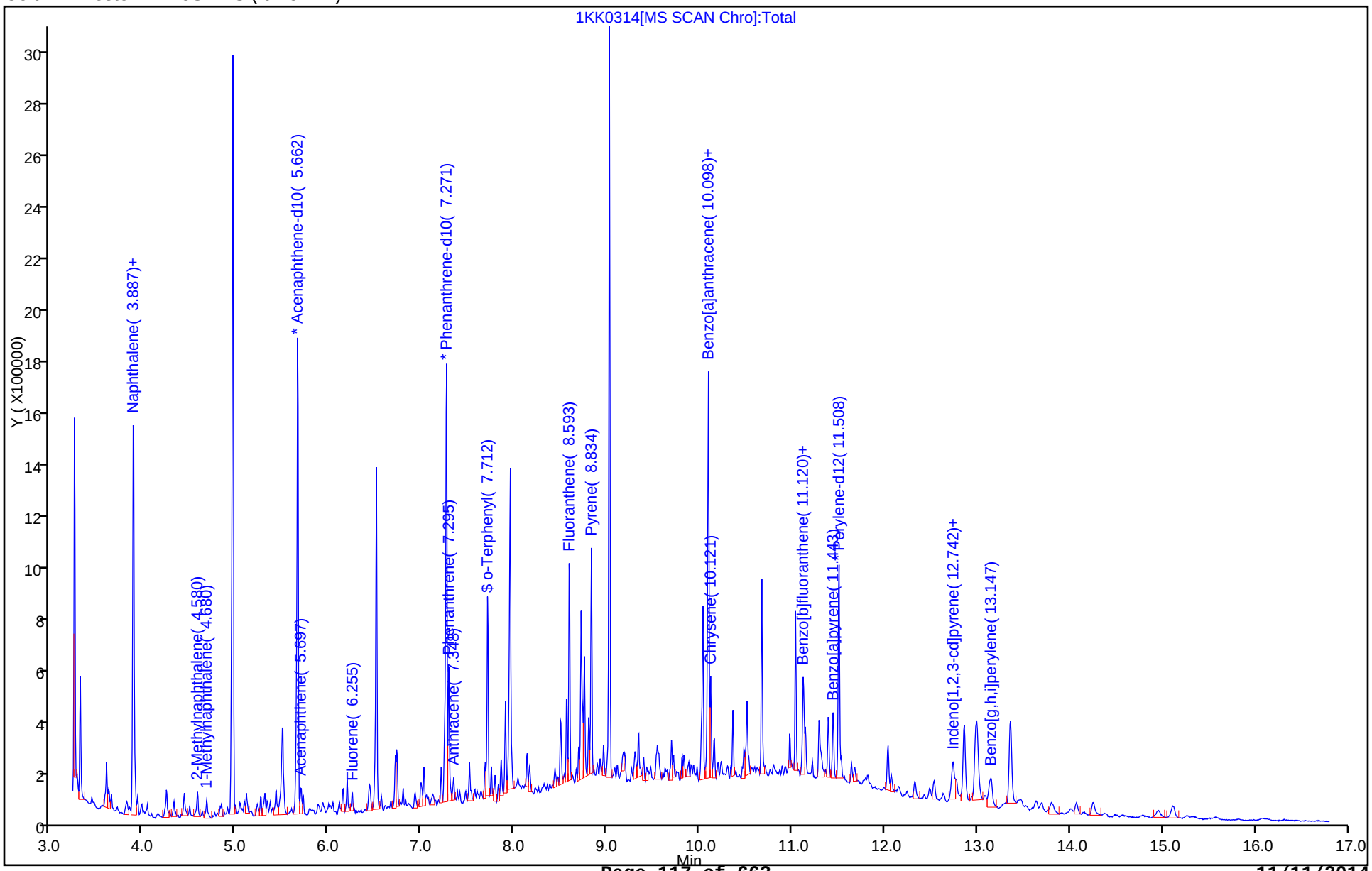
SM-LLISTD_00110 Amount Added: 20.00 Units: uL

Report Date: 04-Nov-2014 09:15:25 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0314.D				
Injection Date:	03-Nov-2014 15:17:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-6-A	Lab Sample ID:	680-106803-6	Worklist Smp#:	14
Client ID:	CV0971JJ-CSD6"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

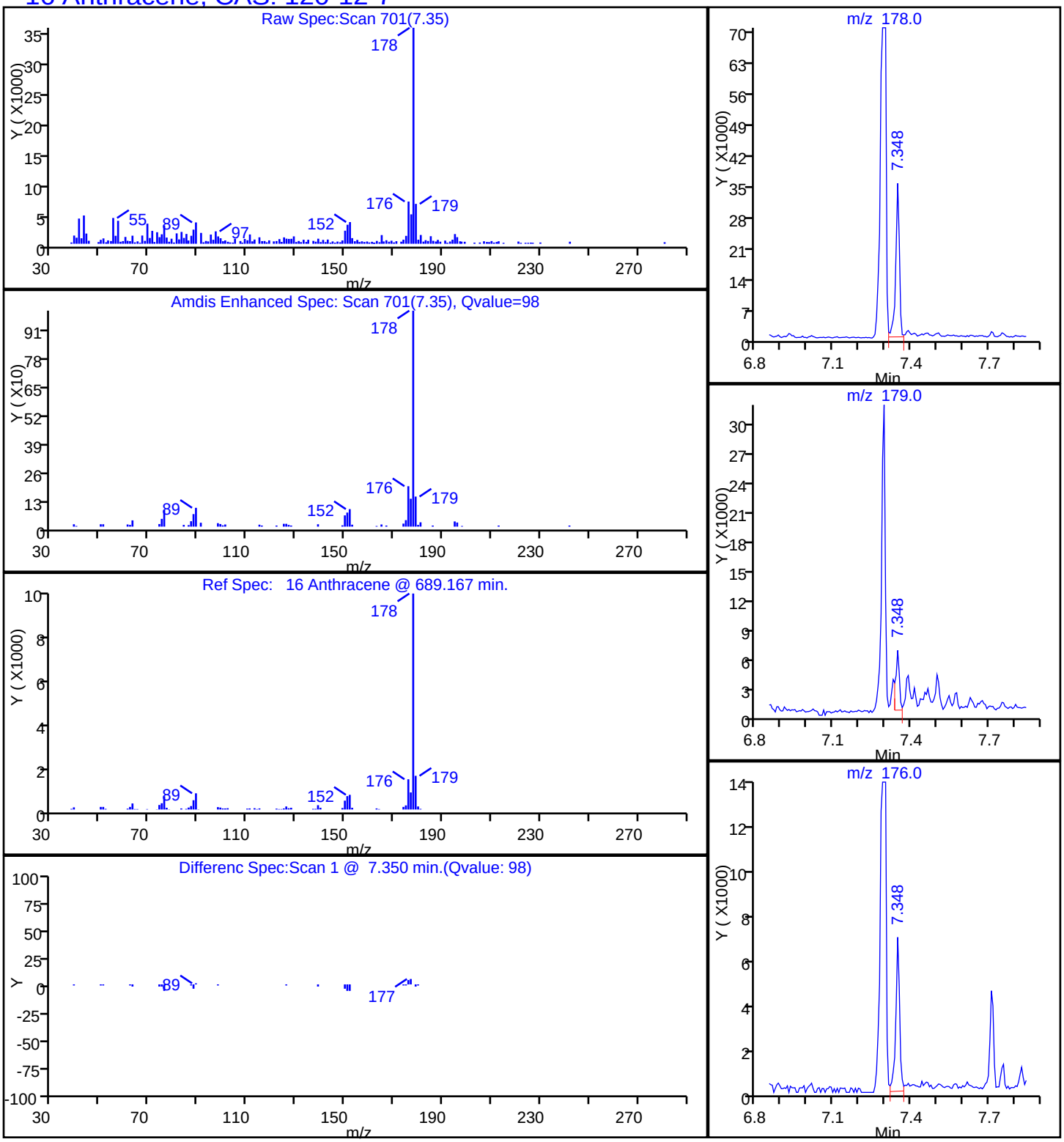


Report Date: 04-Nov-2014 09:15:26 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0314.D				
Injection Date:	03-Nov-2014 15:17:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-6-A	Lab Sample ID:	680-106803-6		
Client ID:	CV0971JJ-CSD6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

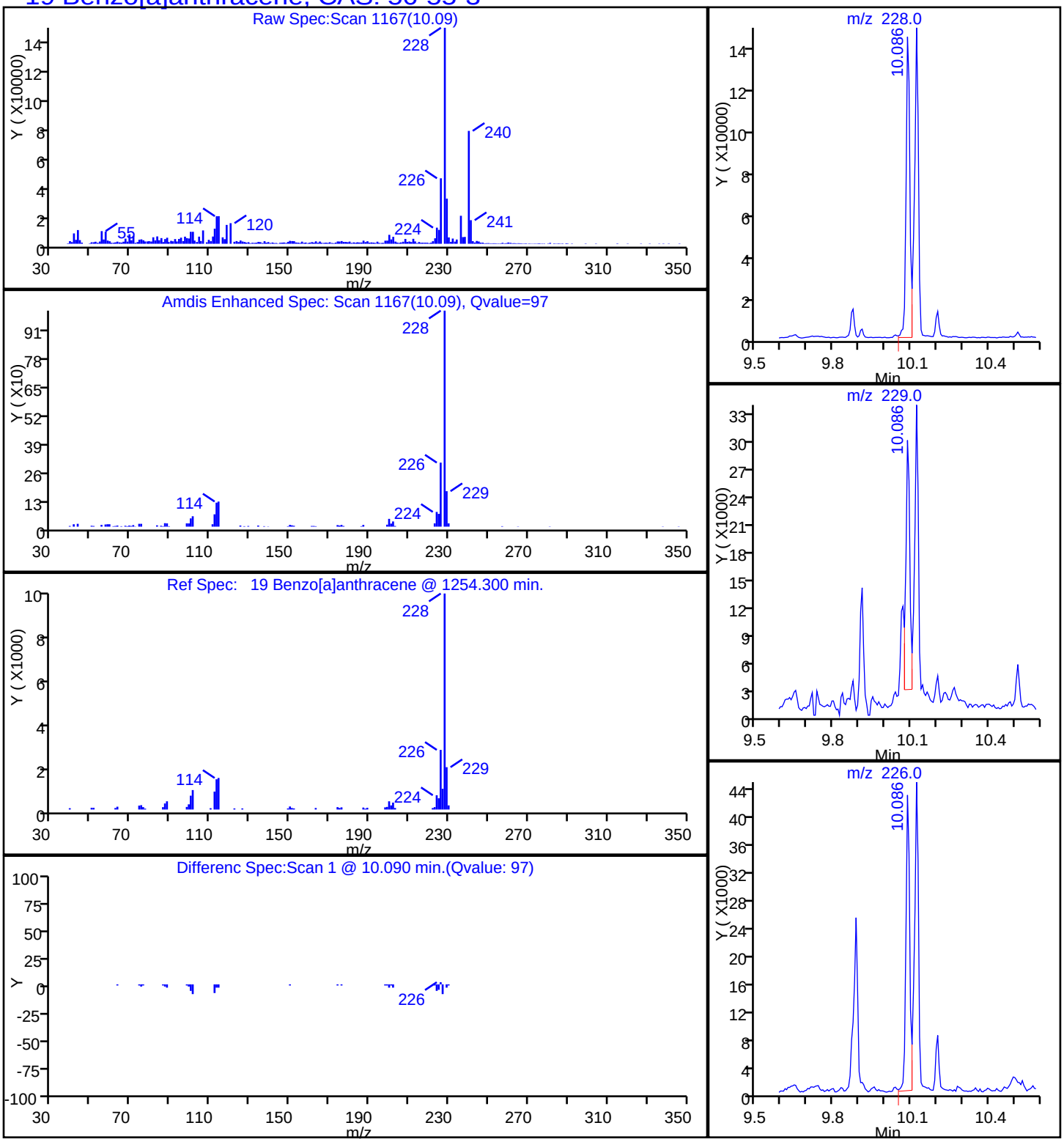


Report Date: 04-Nov-2014 09:15:26 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0314.D				
Injection Date:	03-Nov-2014 15:17:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-6-A	Lab Sample ID:	680-106803-6		
Client ID:	CV0971JJ-CSD6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

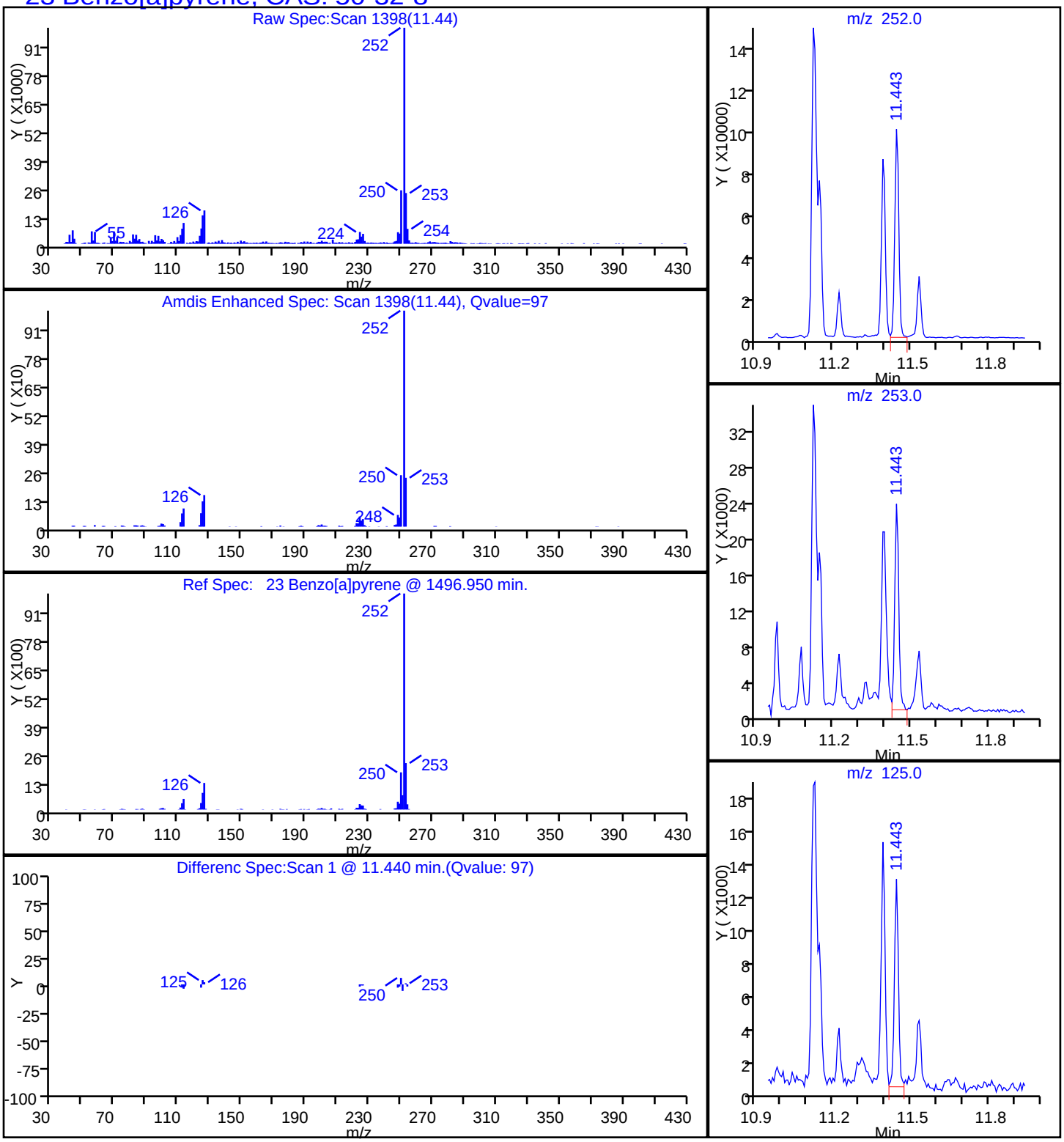


Report Date: 04-Nov-2014 09:15:26 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0314.D				
Injection Date:	03-Nov-2014 15:17:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-6-A	Lab Sample ID:	680-106803-6		
Client ID:	CV0971JJ-CSD6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

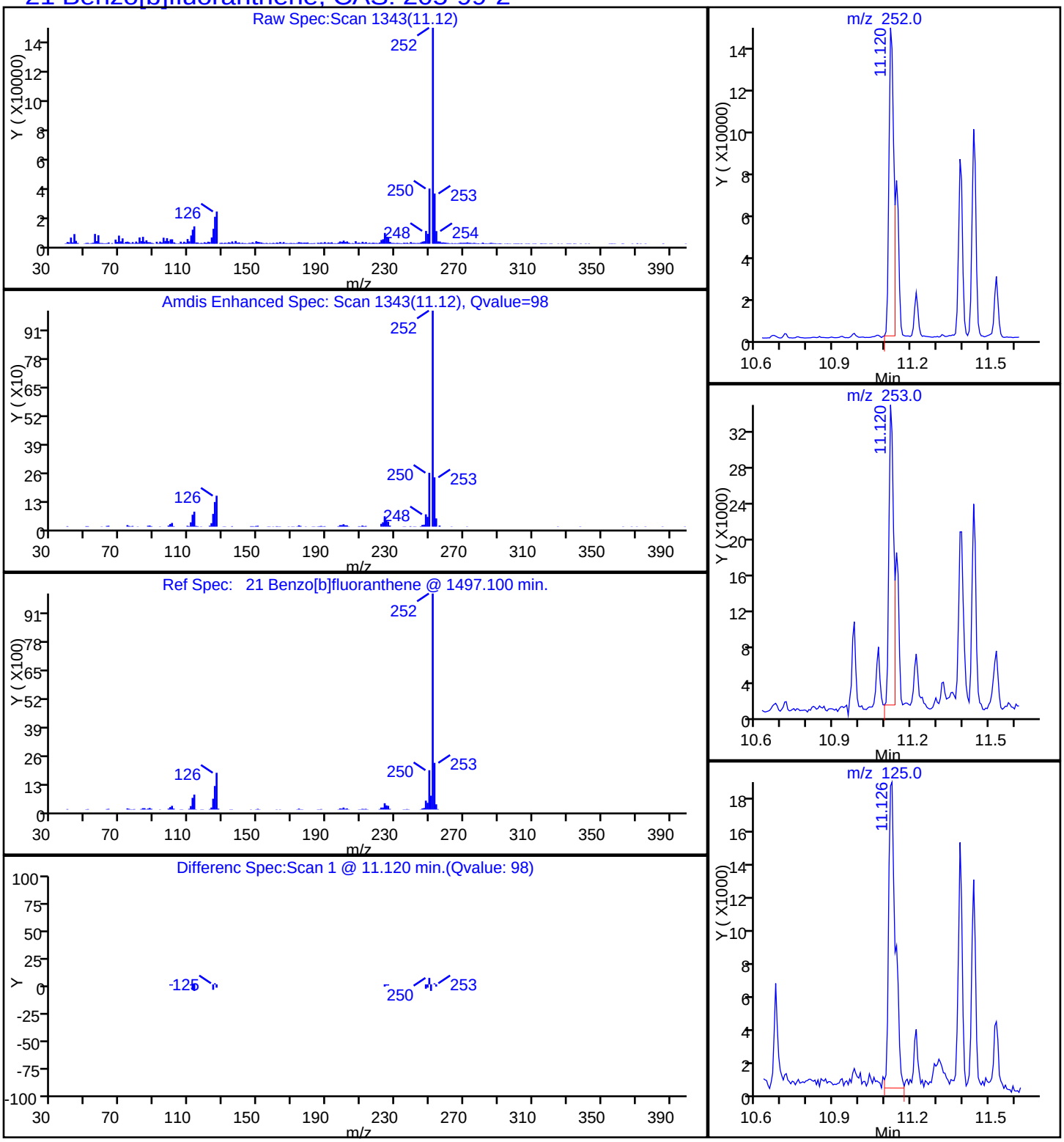


Report Date: 04-Nov-2014 09:15:26 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0314.D				
Injection Date:	03-Nov-2014 15:17:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-6-A	Lab Sample ID:	680-106803-6		
Client ID:	CV0971JJ-CSD6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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: 04-Nov-2014 09:15:26 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

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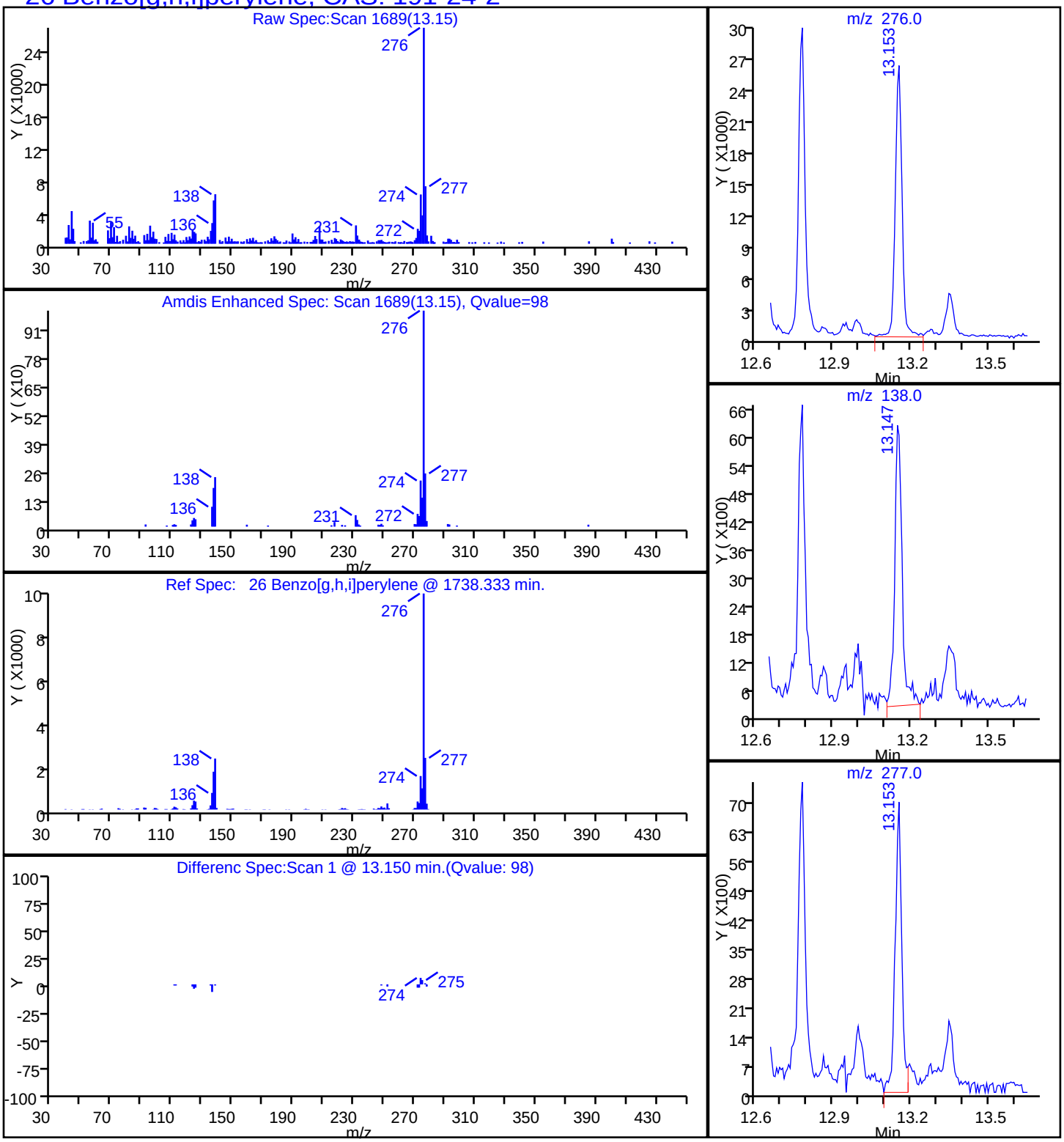
Injection Date:	03-Nov-2014 15:17:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-6-A	Lab Sample ID:	680-106803-6		
Client ID:	CV0971JJ-CSD6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

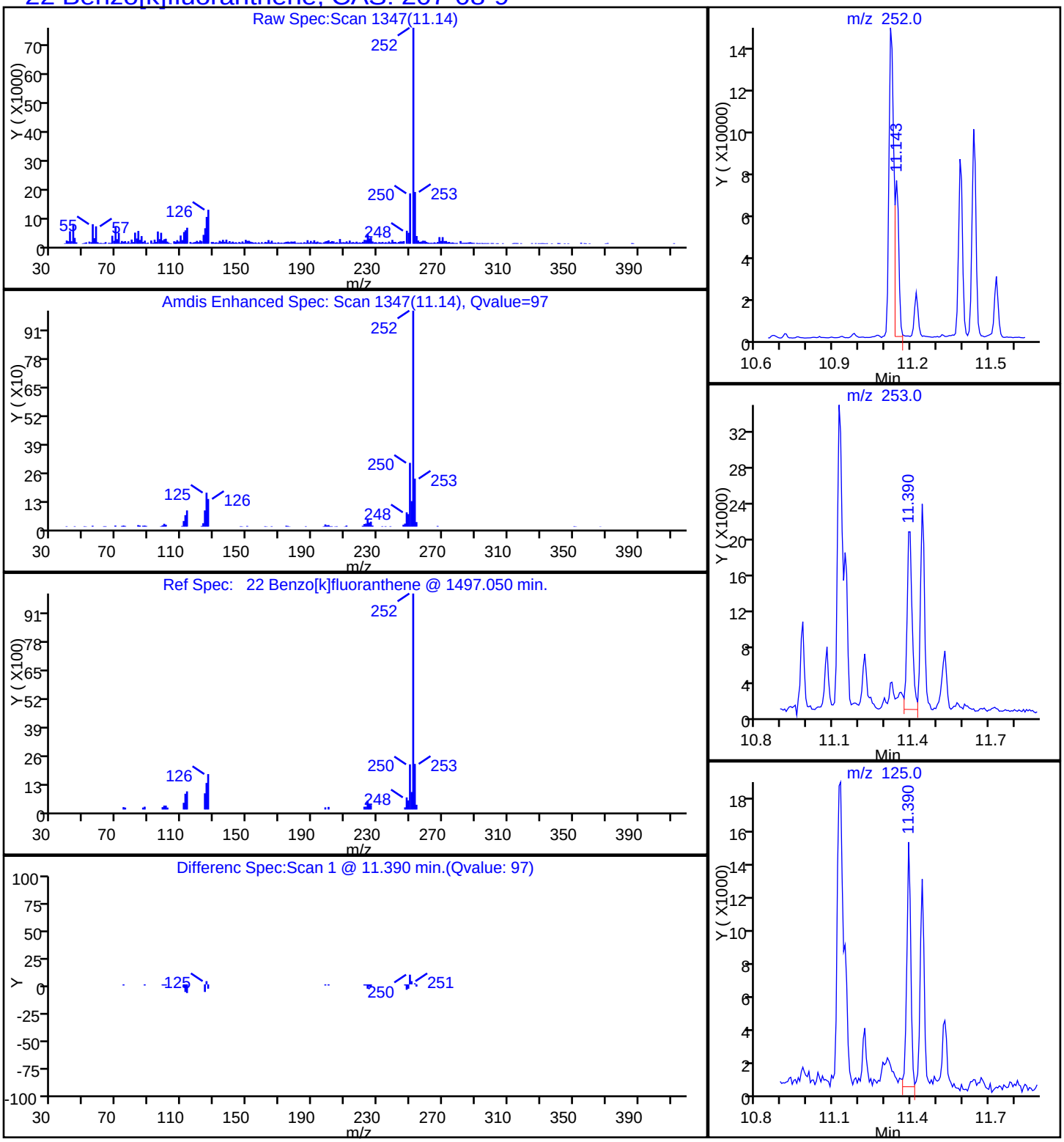


Report Date: 04-Nov-2014 09:15:26 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0314.D				
Injection Date:	03-Nov-2014 15:17:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-6-A	Lab Sample ID:	680-106803-6		
Client ID:	CV0971JJ-CSD6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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: 04-Nov-2014 09:15:26 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0314.D				
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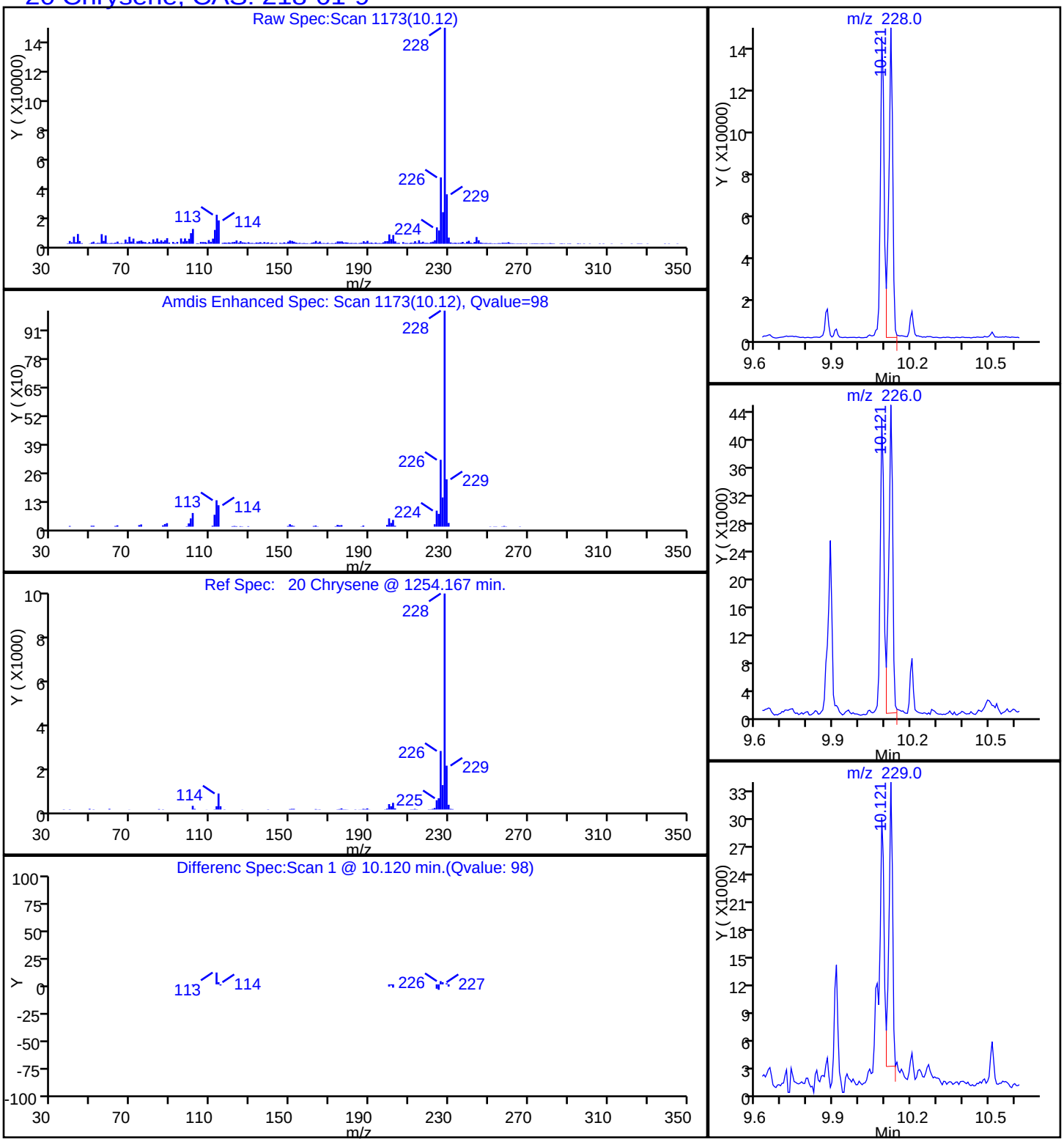
Lims ID:	680-106803-B-6-A	Lab Sample ID:	680-106803-6		
Client ID:	CV0971JJ-CSD6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Chrysene, CAS: 218-01-9

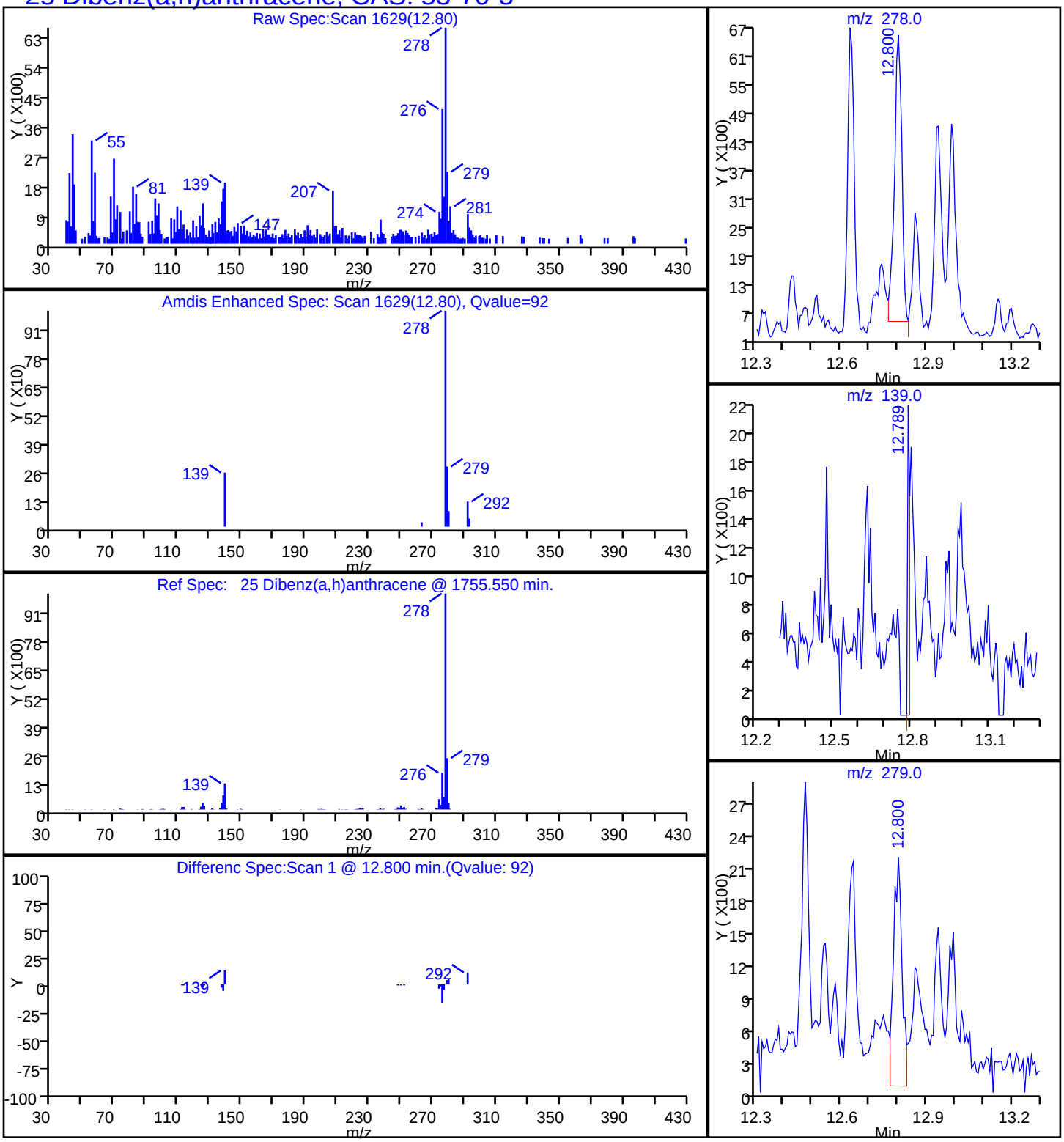


Report Date: 04-Nov-2014 09:15:26 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0314.D				
Injection Date:	03-Nov-2014 15:17:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-6-A	Lab Sample ID:	680-106803-6		
Client ID:	CV0971JJ-CSD6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

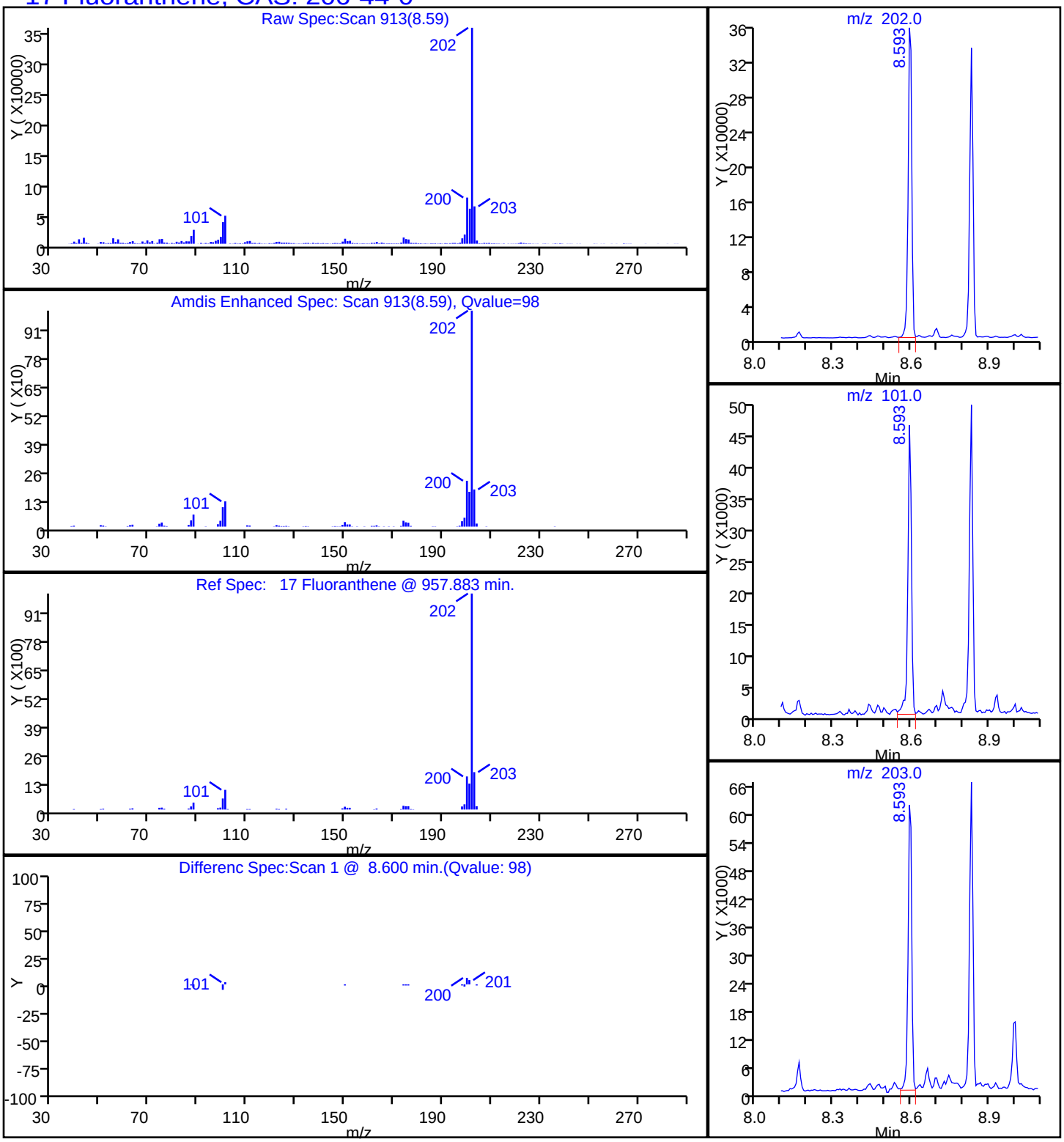


Report Date: 04-Nov-2014 09:15:26 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0314.D				
Injection Date:	03-Nov-2014 15:17:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-6-A	Lab Sample ID:	680-106803-6		
Client ID:	CV0971JJ-CSD6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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: 04-Nov-2014 09:15:26 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0314.D				
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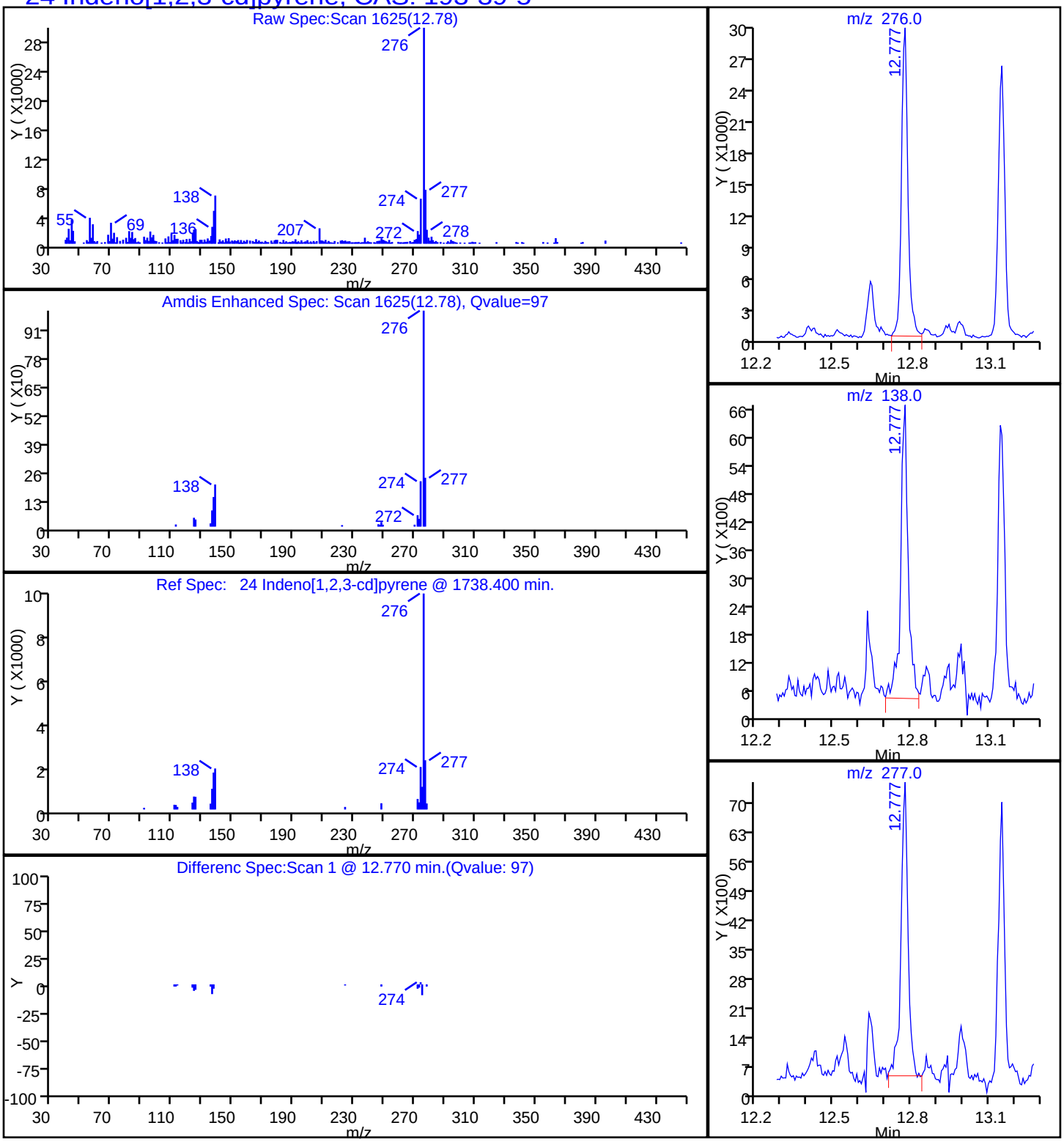
Lims ID:	680-106803-B-6-A	Lab Sample ID:	680-106803-6		
Client ID:	CV0971JJ-CSD6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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



Report Date: 04-Nov-2014 09:15:25 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

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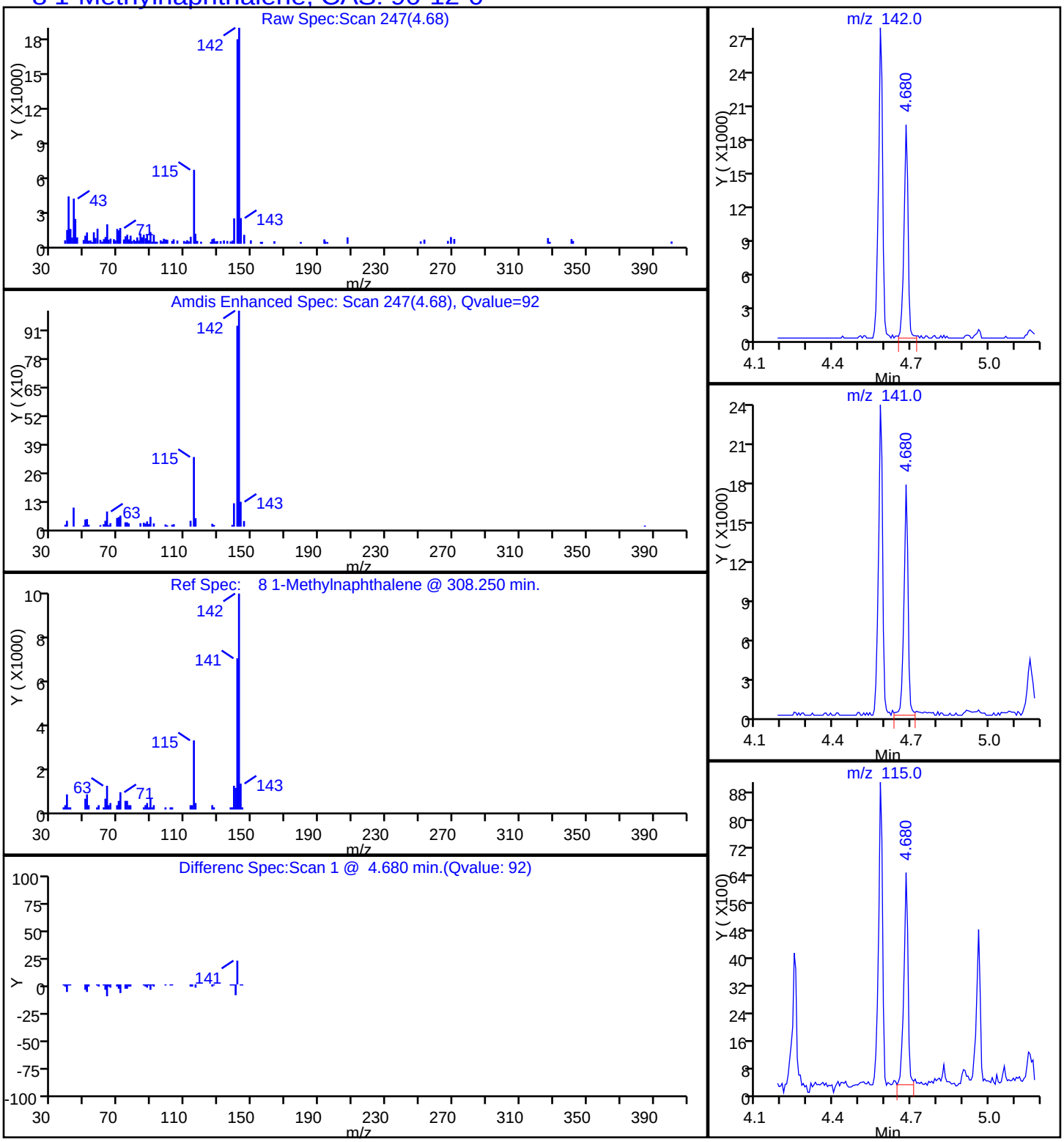
Lims ID:	680-106803-B-6-A	Lab Sample ID:	680-106803-6		
Client ID:	CV0971JJ-CSD6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

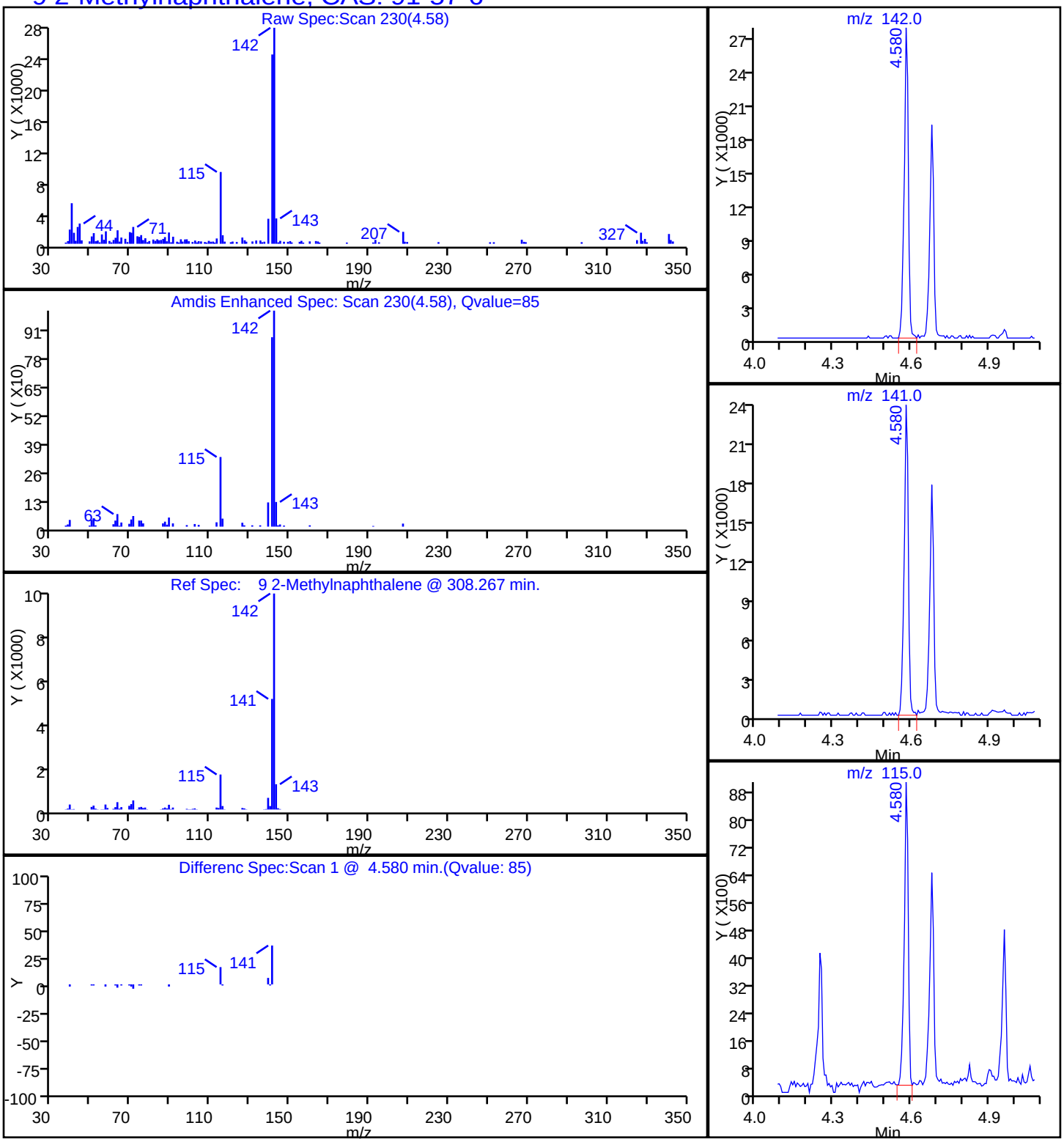


Report Date: 04-Nov-2014 09:15:25 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0314.D				
Injection Date:	03-Nov-2014 15:17:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-6-A	Lab Sample ID:	680-106803-6		
Client ID:	CV0971JJ-CSD6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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: 04-Nov-2014 09:15:25 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0314.D				
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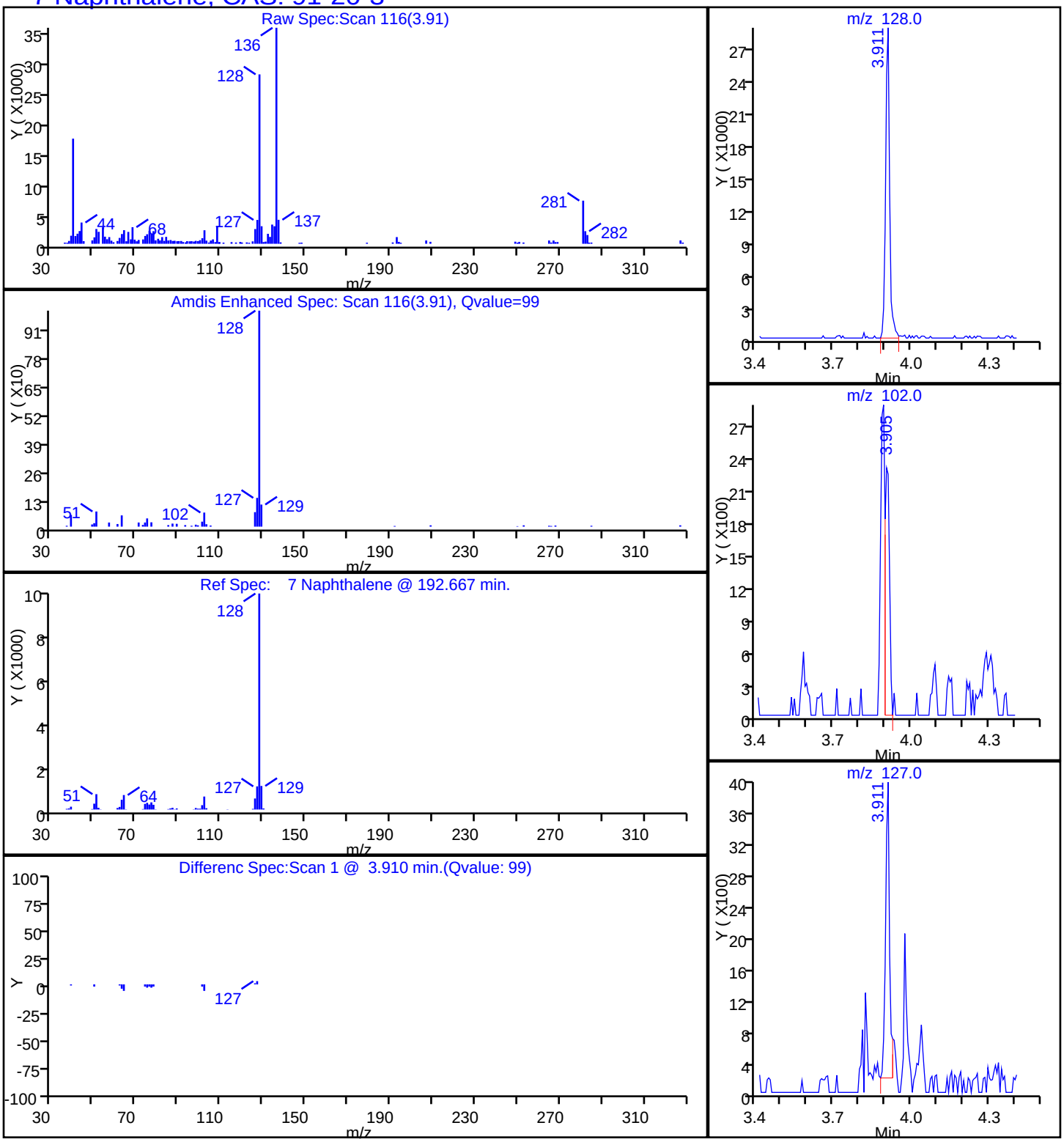
Lims ID:	680-106803-B-6-A	Lab Sample ID:	680-106803-6		
Client ID:	CV0971JJ-CSD6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Naphthalene, CAS: 91-20-3

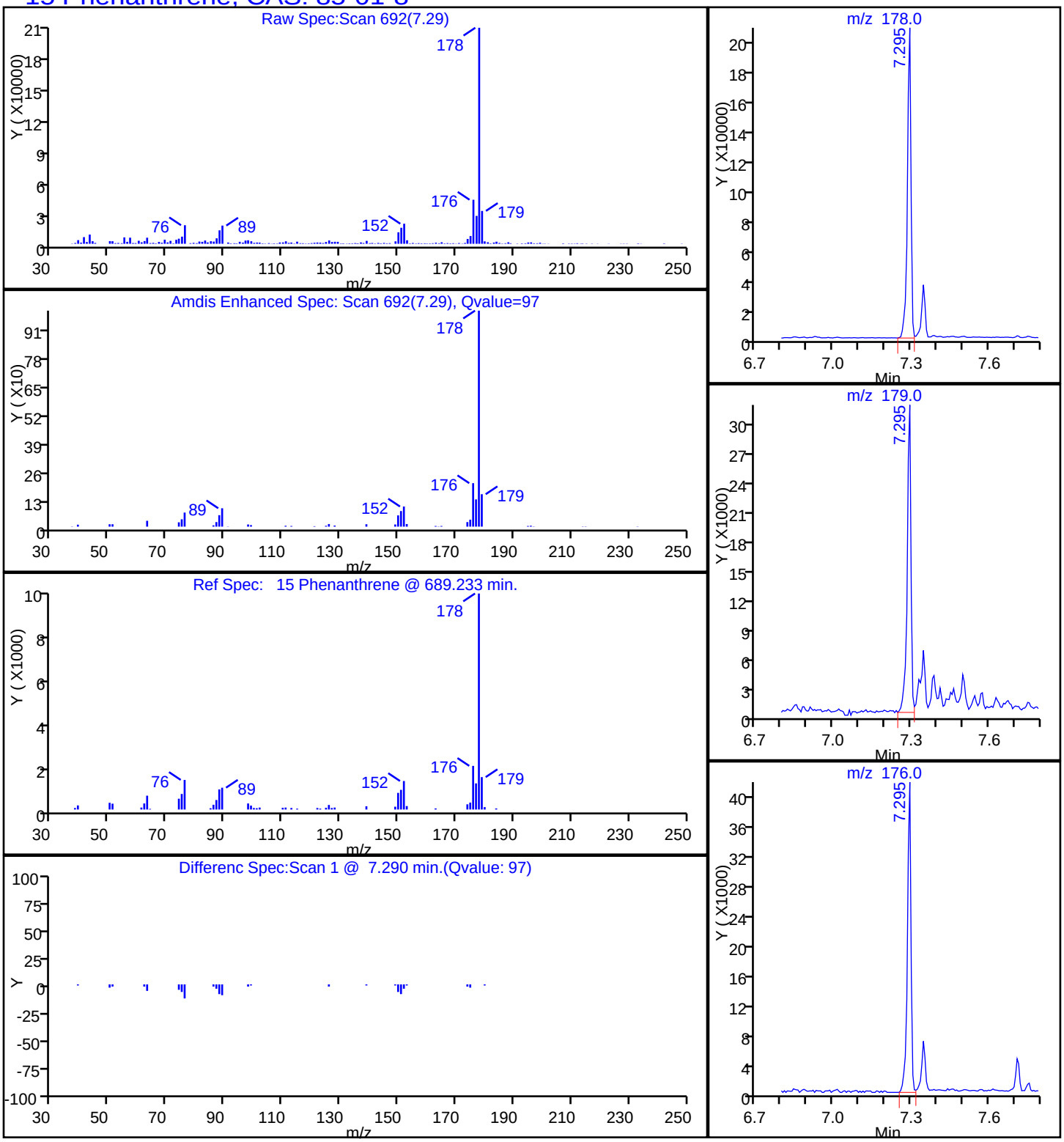


Report Date: 04-Nov-2014 09:15:26 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0314.D				
Injection Date:	03-Nov-2014 15:17:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-6-A	Lab Sample ID:	680-106803-6		
Client ID:	CV0971JJ-CSD6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

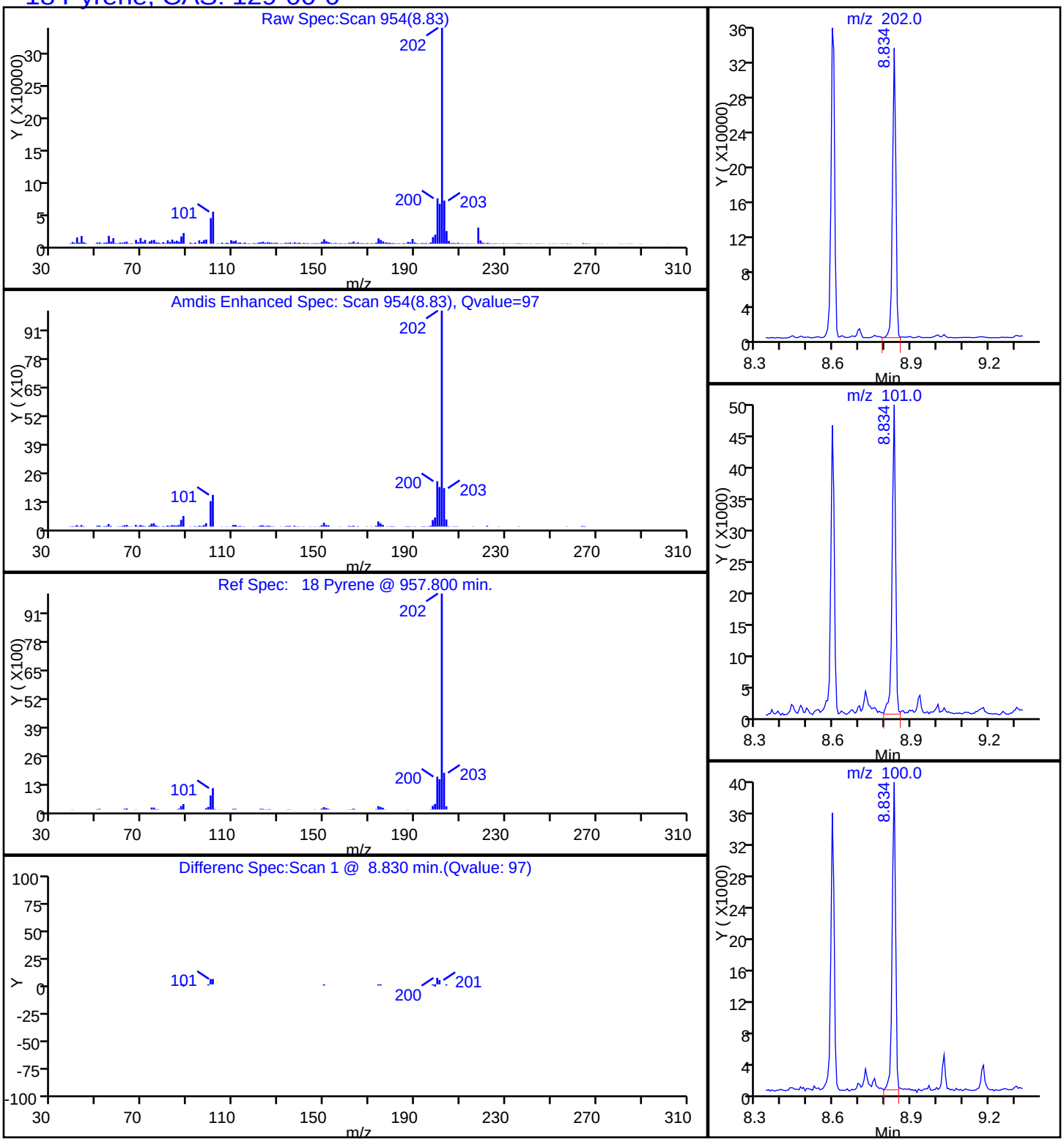


Report Date: 04-Nov-2014 09:15:26 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0314.D				
Injection Date:	03-Nov-2014 15:17:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-6-A	Lab Sample ID:	680-106803-6		
Client ID:	CV0971JJ-CSD6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

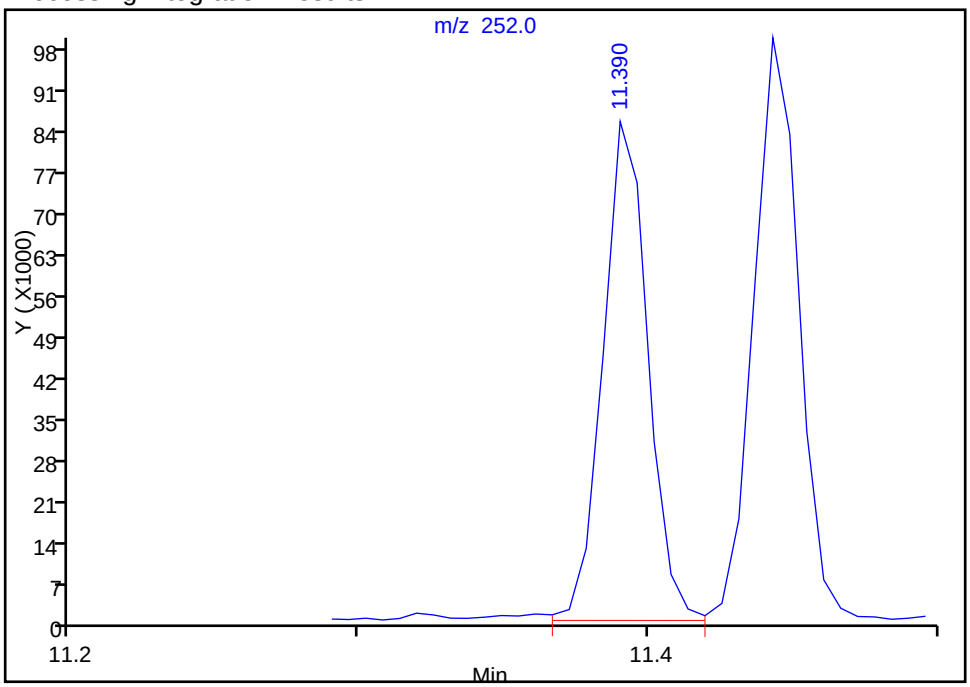
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0314.D				
Injection Date:	03-Nov-2014 15:17:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-6-A	Lab Sample ID:	680-106803-6		
Client ID:	CV0971JJ-CSD6"				
Operator ID:	RM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

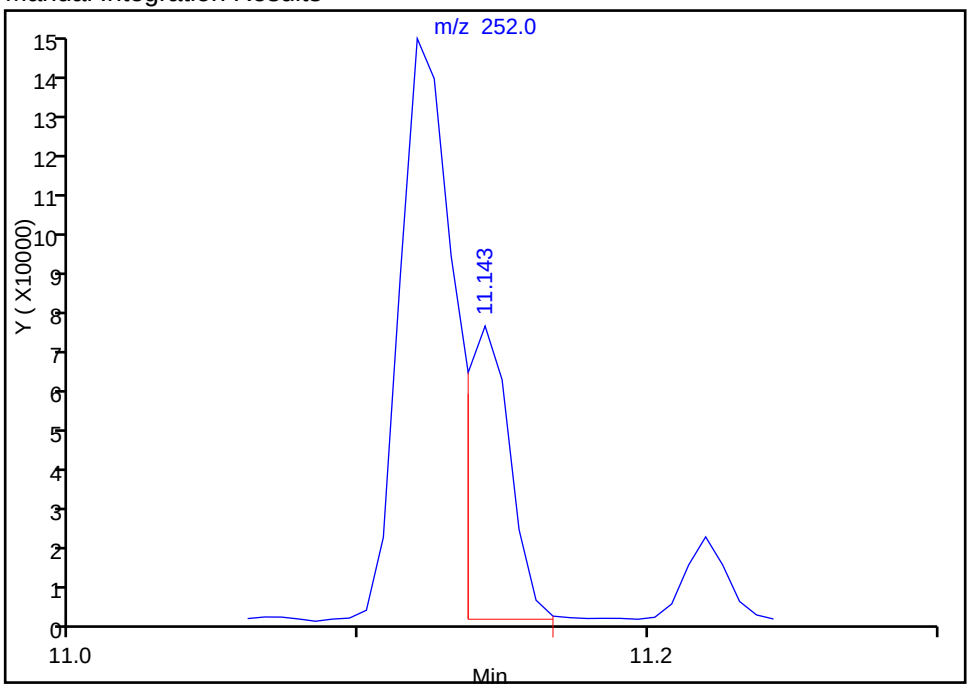
Processing Integration Results

RT: 11.39
Response: 91937
Amount: 0.801167



Manual Integration Results

RT: 11.14
Response: 79611
Amount: 0.693755



Reviewer: webbk, 03-Nov-2014 16:51:55
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971JJ-CS12" | Lab Sample ID: 680-106803-7

Matrix: Solid | Lab File ID: 1KK0315.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 08:55

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.02(g) | Date Analyzed: 11/03/2014 15:40

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

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

% Moisture: 12.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | 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	77	U	77	38
50-32-8	Benzo[a]pyrene	26	J	77	14
205-99-2	Benzo[b]fluoranthene	42	J	77	38
191-24-2	Benzo[g,h,i]perylene	77	U	77	38
207-08-9	Benzo[k]fluoranthene	77	U	77	23
218-01-9	Chrysene	77	U	77	38
53-70-3	Dibenz(a,h)anthracene	77	U	77	38
206-44-0	Fluoranthene	77	U	77	38
86-73-7	Fluorene	77	U	77	38
193-39-5	Indeno[1,2,3-cd]pyrene	77	U	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	77	U	77	28
129-00-0	Pyrene	77	U	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\CMSK\20141103-14354.b\1KK0315.D				
Lims ID:	680-106803-B-7-A	Lab Sample ID:	680-106803-7		
Client ID:	CV0971JJ-CS12"				
Sample Type:	Client				
Inject. Date:	03-Nov-2014 15:40:30	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	680-106803-B-7-A 1:10				
Misc. Info.:	680-0014354-015				
Operator ID:	RM	Instrument ID:	CMSK		

Method:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m		
Limit Group:	8270D_LL_PAH		
Last Update:	04-Nov-2014 09:15:09	Calib Date:	22-Oct-2014 16:17:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D		

Column 1 :	Restek RXi-5Sil MS (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK009	

First Level Reviewer: webbk Date: 03-Nov-2014 16:53:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.893	3.893	0.000	99	413085	2.00	
* 2 Acenaphthene-d10	164	5.662	5.662	0.000	91	240591	2.00	
* 3 Phenanthrene-d10	188	7.266	7.266	0.000	98	344193	2.00	
* 4 Chrysene-d12	240	10.098	10.092	0.006	100	224177	2.00	
* 5 Perylene-d12	264	11.502	11.496	0.006	99	176158	2.00	
15 Phenanthrene	178	7.295	7.289	0.006	40	13757	0.0656	7
16 Anthracene	178	7.348	7.348	0.000	38	2305	0.0117	7
17 Fluoranthene	202	8.593	8.594	-0.001	97	18410	0.0877	
18 Pyrene	202	8.834	8.829	0.005	97	16584	0.0824	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	50	7989	0.0597	7
20 Chrysene	228	10.121	10.115	0.006	98	10413	0.0824	
21 Benzo[b]fluoranthene	252	11.120	11.114	0.006	98	12481	0.1096	
22 Benzo[k]fluoranthene	252	11.143	11.138	0.005	98	4014	0.0340	7M
23 Benzo[a]pyrene	252	11.443	11.437	0.006	95	6683	0.0672	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

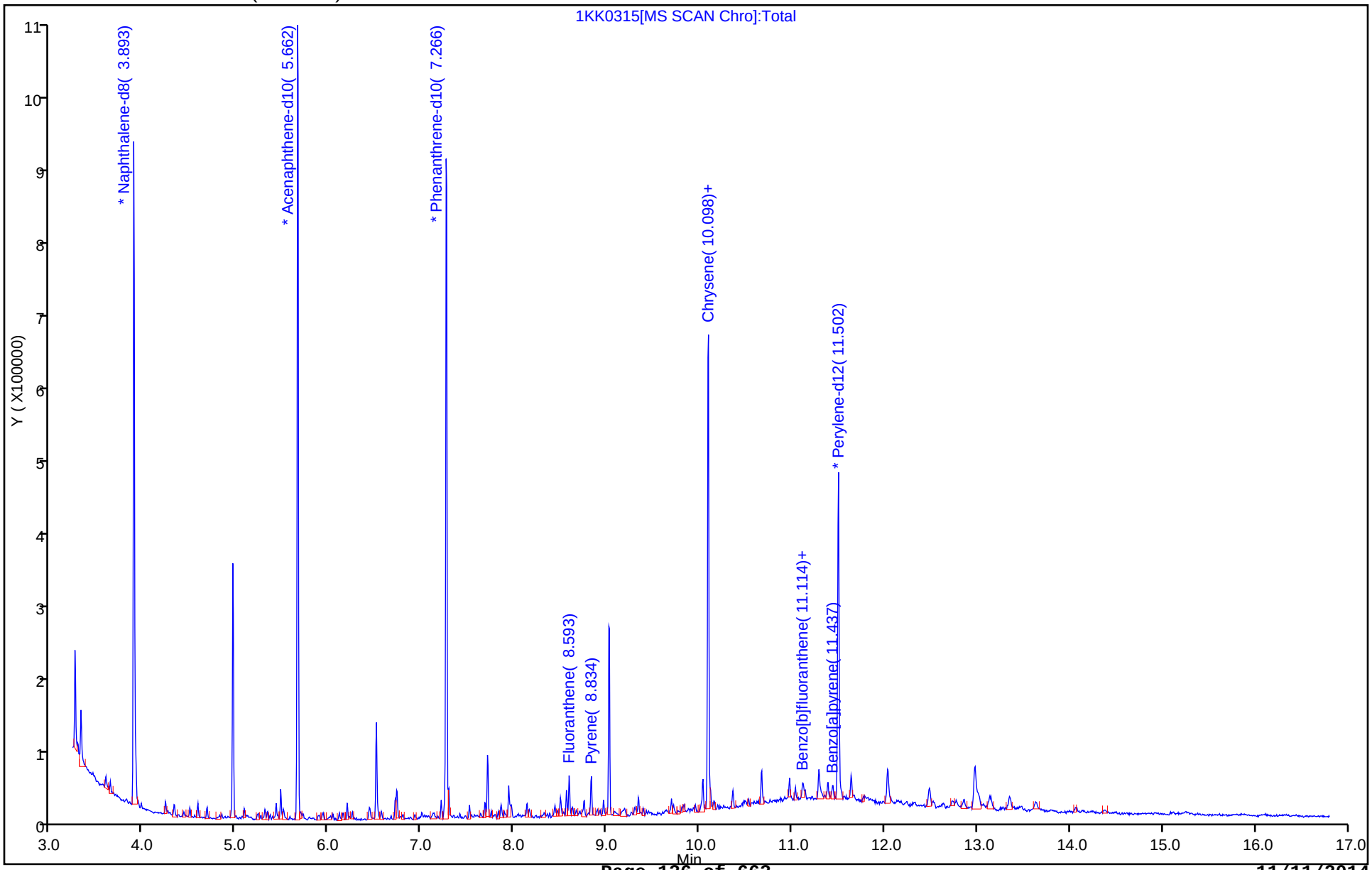
SM-LLISTD_00110 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 04-Nov-2014 09:15:24 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0315.D				
Injection Date:	03-Nov-2014 15:40:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-7-A	Lab Sample ID:	680-106803-7	Worklist Smp#:	15
Client ID:	CV0971JJ-CS12"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	15
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

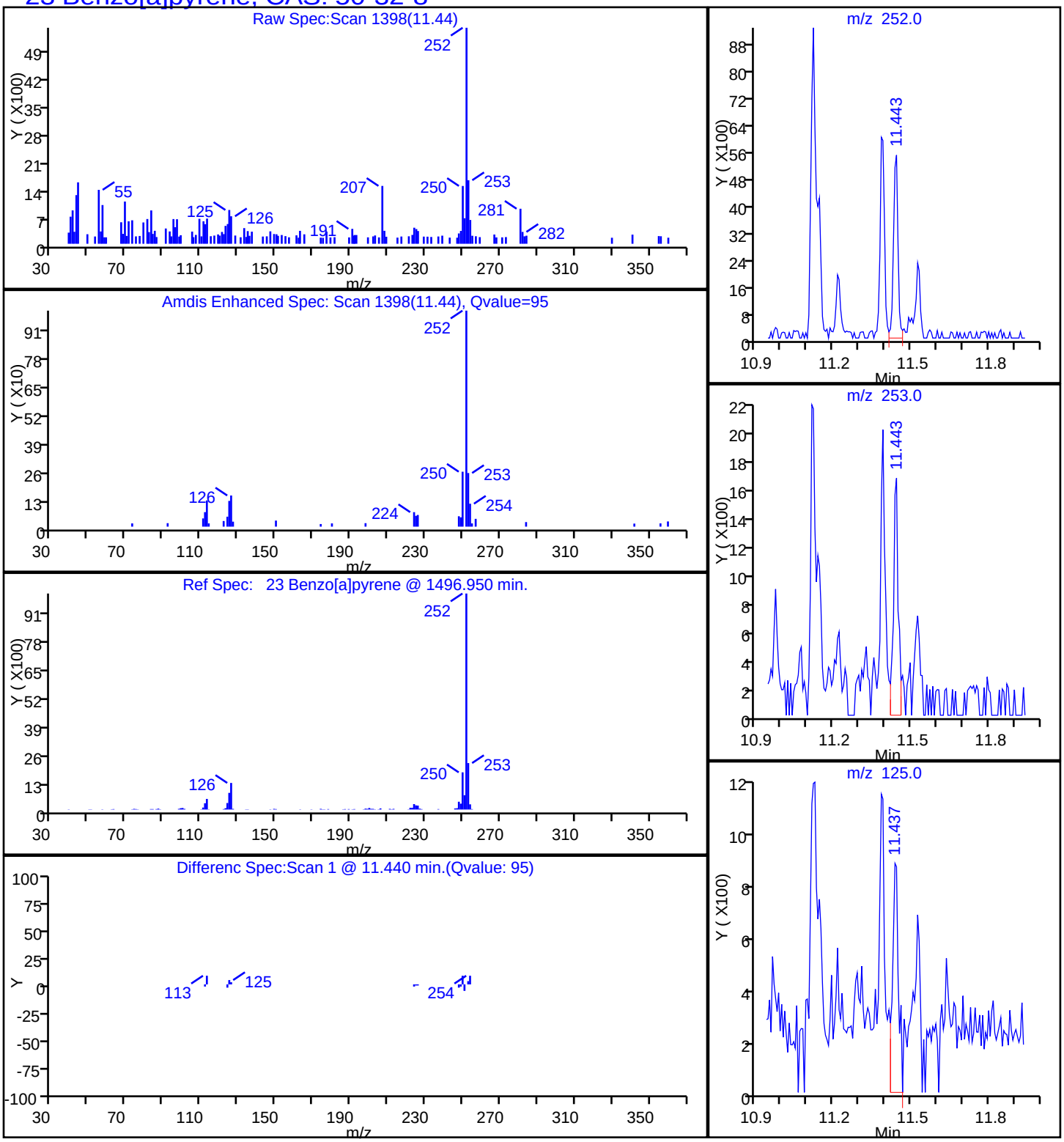


Report Date: 04-Nov-2014 09:15:24 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0315.D				
Injection Date:	03-Nov-2014 15:40:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-7-A	Lab Sample ID:	680-106803-7		
Client ID:	CV0971JJ-CS12"				
Operator ID:	RM	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

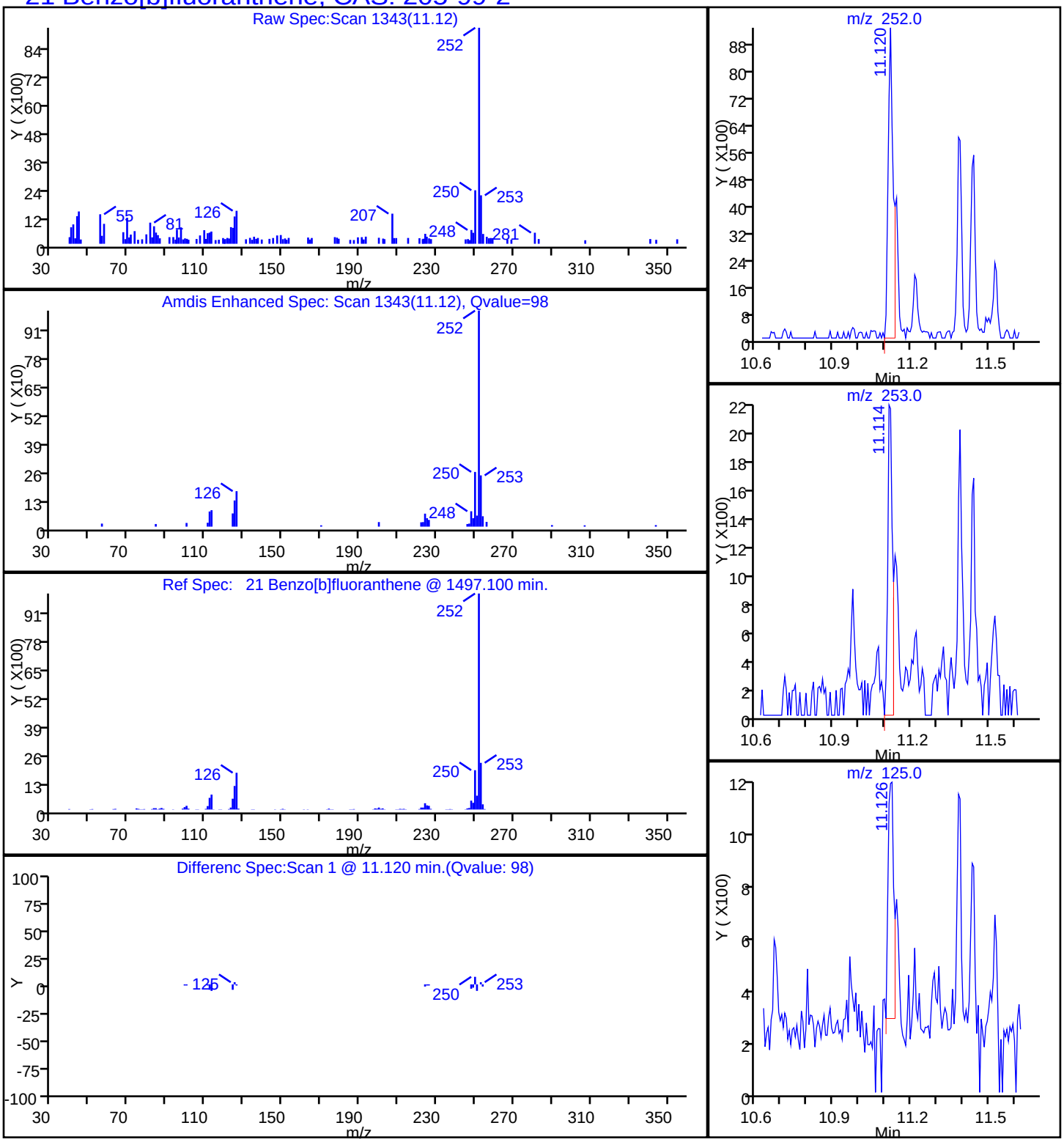


Report Date: 04-Nov-2014 09:15:24 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0315.D				
Injection Date:	03-Nov-2014 15:40:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-7-A	Lab Sample ID:	680-106803-7		
Client ID:	CV0971JJ-CS12"				
Operator ID:	RM	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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



Manual Integration/User Assign Peak Report

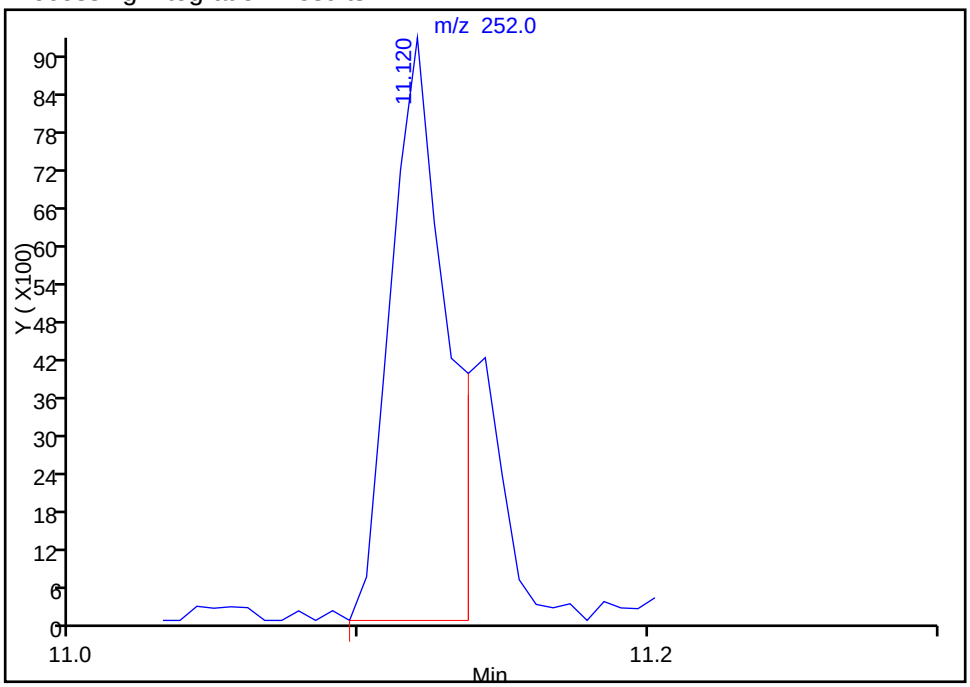
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0315.D				
Injection Date:	03-Nov-2014 15:40:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-7-A	Lab Sample ID:	680-106803-7		
Client ID:	CV0971JJ-CS12"				
Operator ID:	RM	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

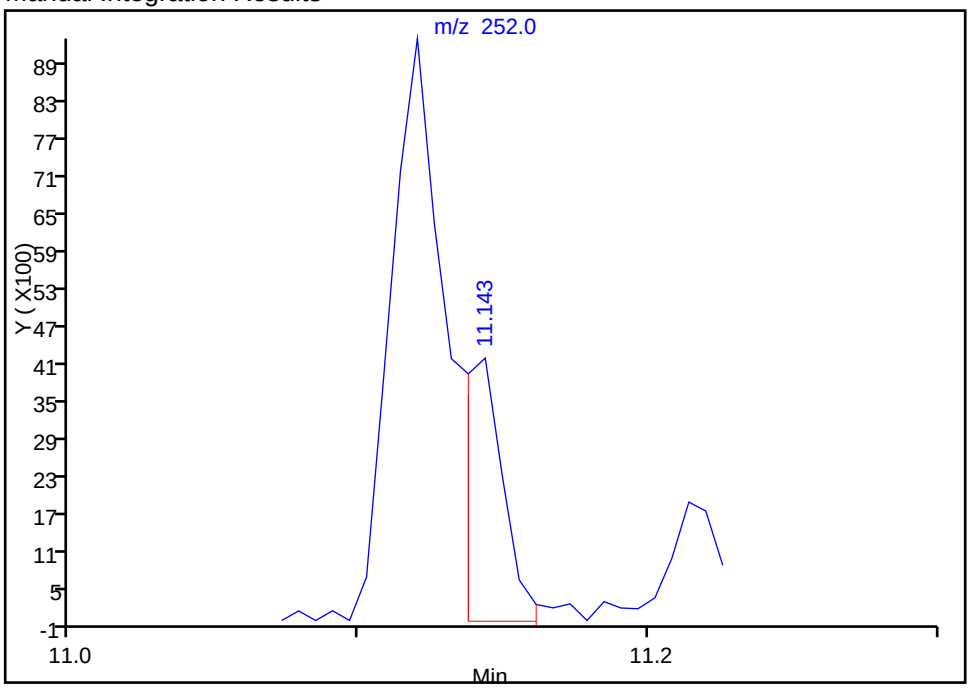
Processing Integration Results

RT: 11.12
Response: 12481
Amount: 0.105847



Manual Integration Results

RT: 11.14
Response: 4014
Amount: 0.034041



Reviewer: webbk, 03-Nov-2014 16:53:16
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971JJ-CS18" | Lab Sample ID: 680-106803-8

Matrix: Solid | Lab File ID: 1KK0316.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 09:10

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.01(g) | Date Analyzed: 11/03/2014 16:03

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

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

% Moisture: 13.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | 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	60	J	77	38
50-32-8	Benzo[a]pyrene	66	J	77	14
205-99-2	Benzo[b]fluoranthene	110		77	38
191-24-2	Benzo[g,h,i]perylene	77	U	77	38
207-08-9	Benzo[k]fluoranthene	41	J	77	23
218-01-9	Chrysene	88		77	38
53-70-3	Dibenz(a,h)anthracene	77	U	77	38
206-44-0	Fluoranthene	98		77	38
86-73-7	Fluorene	77	U	77	38
193-39-5	Indeno[1,2,3-cd]pyrene	77	U	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	63	J	77	28
129-00-0	Pyrene	90		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\CMSK\20141103-14354.b\1KK0316.D				
Lims ID:	680-106803-B-8-A	Lab Sample ID:	680-106803-8		
Client ID:	CV0971JJ-CS18"				
Sample Type:	Client				
Inject. Date:	03-Nov-2014 16:03:30	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	680-106803-B-8-A 1:10				
Misc. Info.:	680-0014354-016				
Operator ID:	RM	Instrument ID:	CMSK		

Method:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m		
Limit Group:	8270D_LL_PAH		
Last Update:	04-Nov-2014 09:15:09	Calib Date:	22-Oct-2014 16:17:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D		

Column 1 :	Restek RXi-5Sil MS (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK009	

First Level Reviewer: webbk Date: 03-Nov-2014 16:54:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.893	3.893	0.000	99	437145	2.00	
* 2 Acenaphthene-d10	164	5.667	5.662	0.005	91	253889	2.00	
* 3 Phenanthrene-d10	188	7.266	7.266	0.000	98	360242	2.00	
* 4 Chrysene-d12	240	10.098	10.092	0.006	99	235322	2.00	
* 5 Perylene-d12	264	11.502	11.496	0.006	99	162093	2.00	
9 2-Methylnaphthalene	142	4.586	4.586	0.000	85	10657	0.0713	
8 1-Methylnaphthalene	142	4.686	4.680	0.006	92	7626	0.0539	
15 Phenanthrene	178	7.295	7.289	0.006	95	35780	0.1631	
16 Anthracene	178	7.348	7.348	0.000	72	4352	0.0211	7
17 Fluoranthene	202	8.593	8.594	-0.001	98	56422	0.2569	
18 Pyrene	202	8.834	8.829	0.005	97	49824	0.2359	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	97	21968	0.1563	
20 Chrysene	228	10.121	10.115	0.006	98	30573	0.2305	
21 Benzo[b]fluoranthene	252	11.120	11.114	0.006	98	30956	0.2953	
22 Benzo[k]fluoranthene	252	11.143	11.138	0.005	98	11674	0.1076	M
23 Benzo[a]pyrene	252	11.443	11.437	0.006	96	15847	0.1732	
26 Benzo[g,h,i]perylene	276	13.147	13.141	0.006	97	8645	0.0931	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

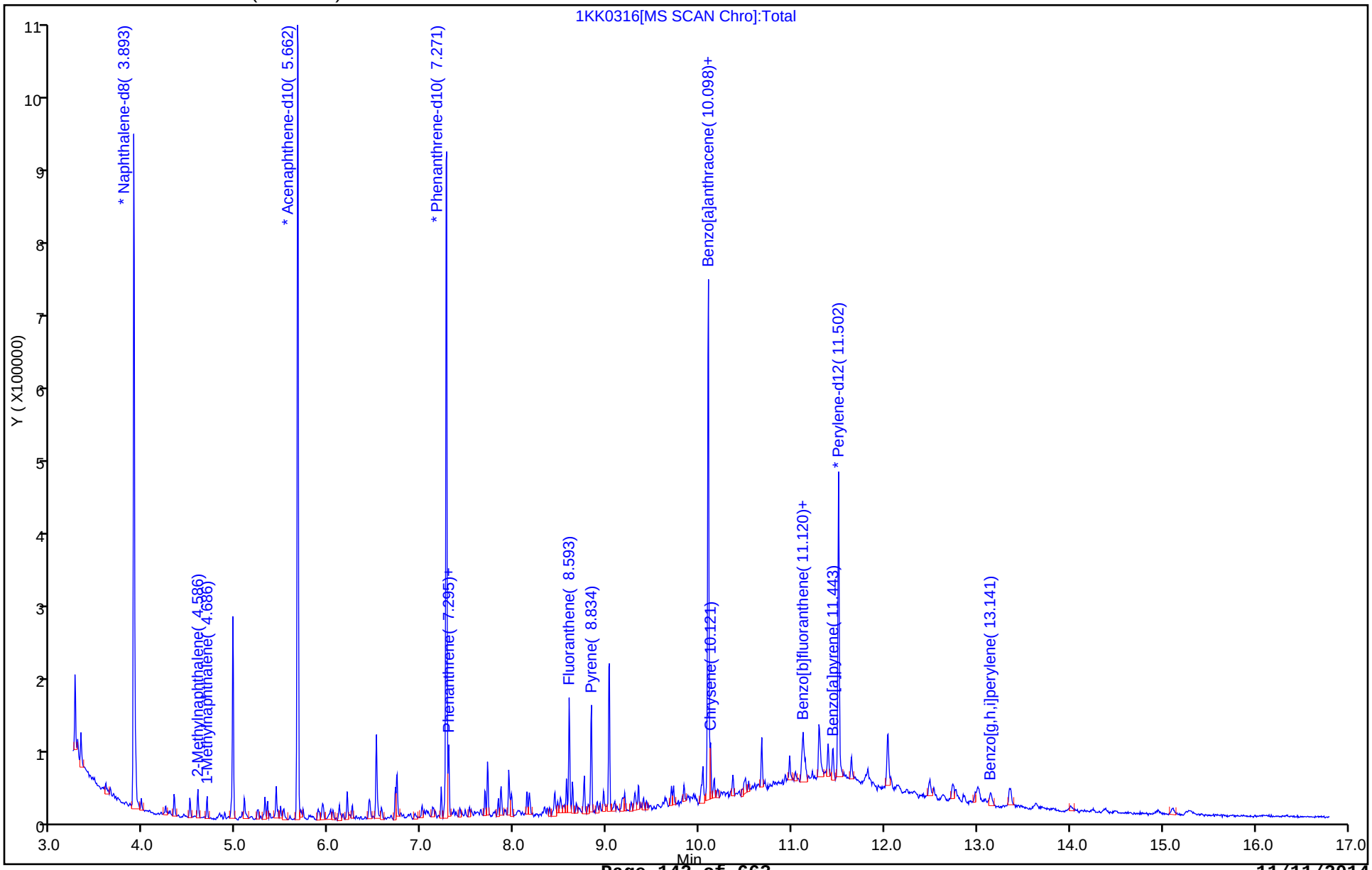
SM-LLISTD_00110 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 04-Nov-2014 09:15:23 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0316.D				
Injection Date:	03-Nov-2014 16:03:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-8-A	Lab Sample ID:	680-106803-8	Worklist Smp#:	16
Client ID:	CV0971JJ-CS18"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	16
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

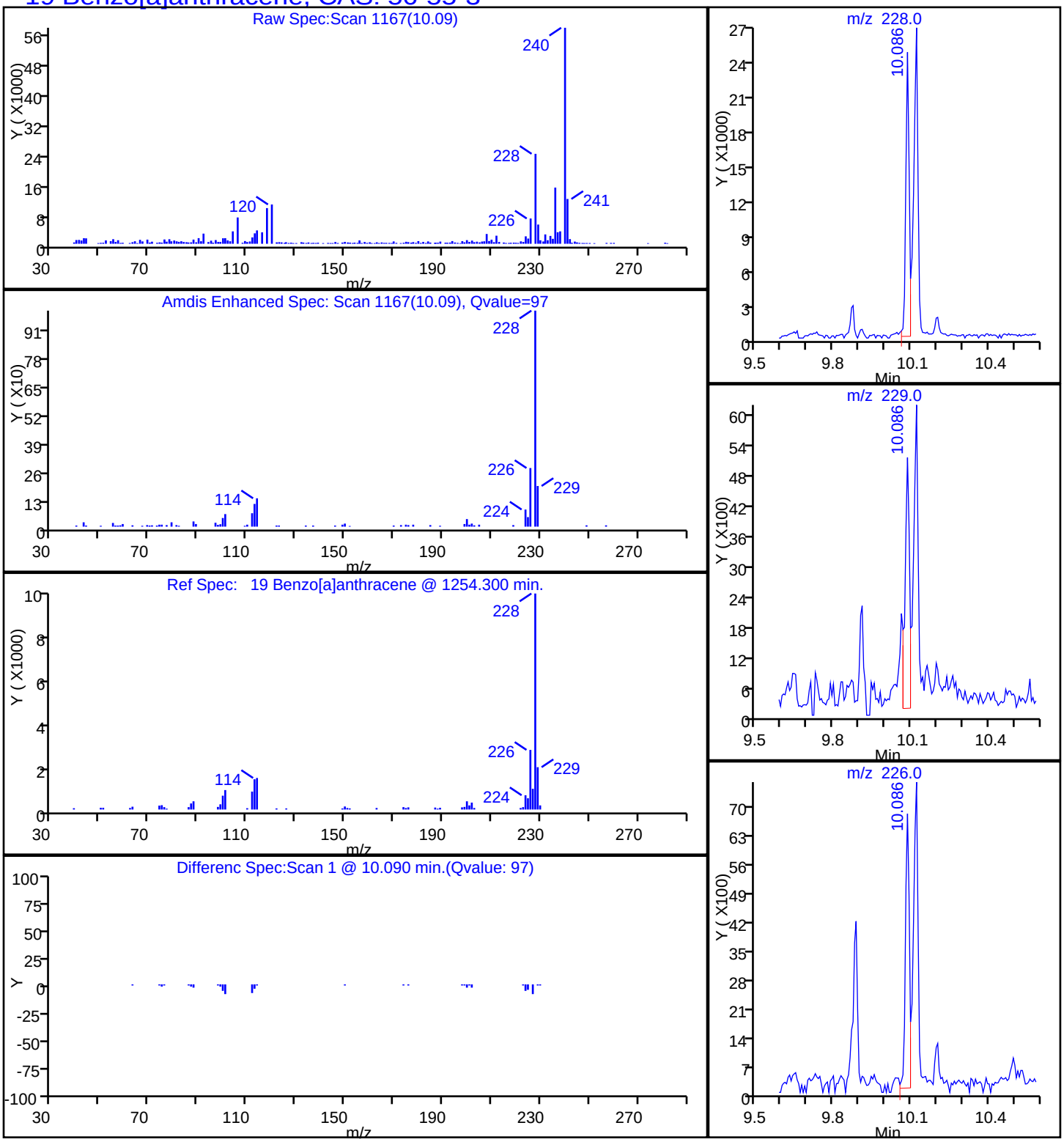


Report Date: 04-Nov-2014 09:15:23 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0316.D				
Injection Date:	03-Nov-2014 16:03:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-8-A	Lab Sample ID:	680-106803-8		
Client ID:	CV0971JJ-CS18"				
Operator ID:	RM	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

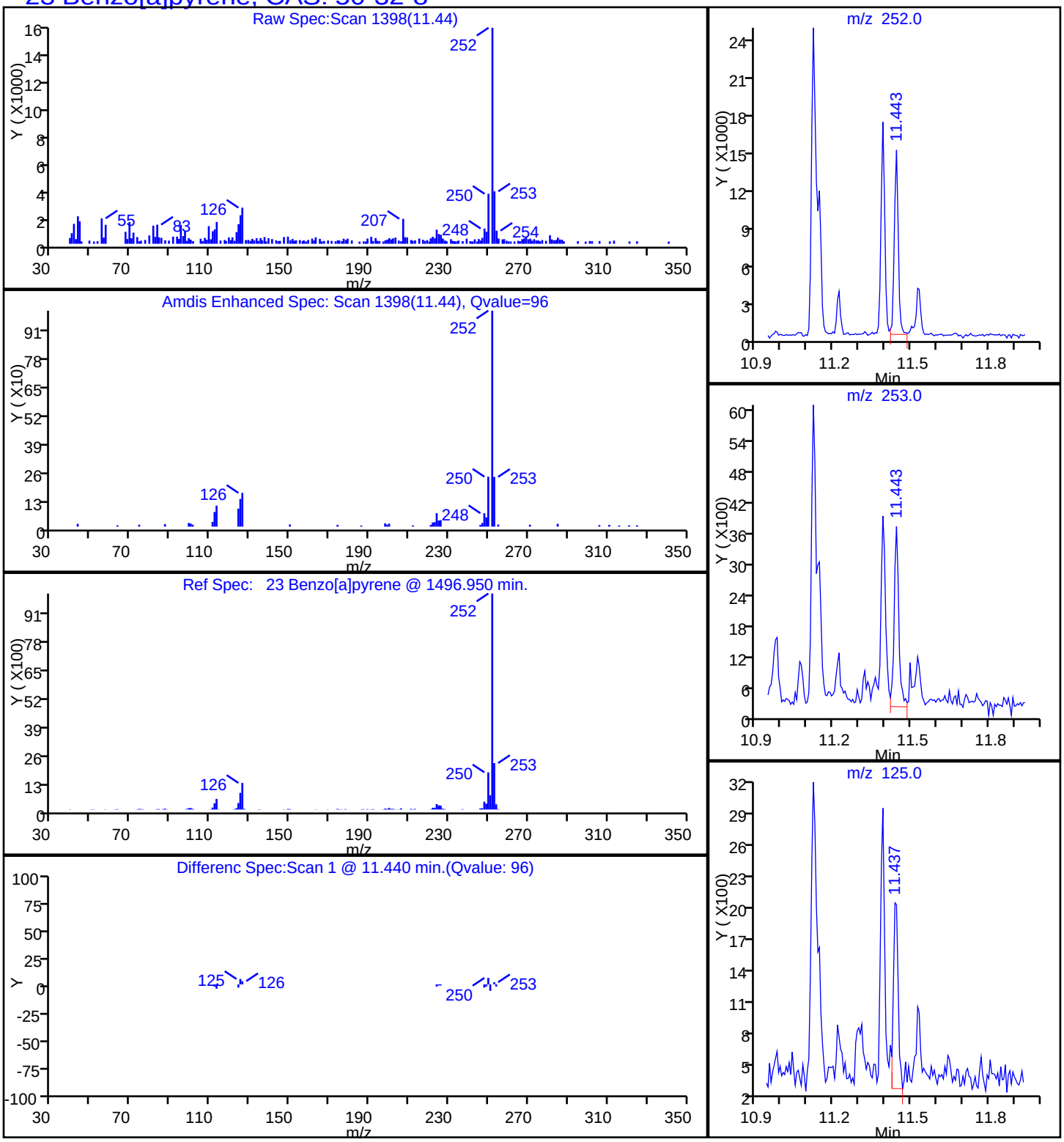


Report Date: 04-Nov-2014 09:15:23 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0316.D				
Injection Date:	03-Nov-2014 16:03:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-8-A	Lab Sample ID:	680-106803-8		
Client ID:	CV0971JJ-CS18"				
Operator ID:	RM	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

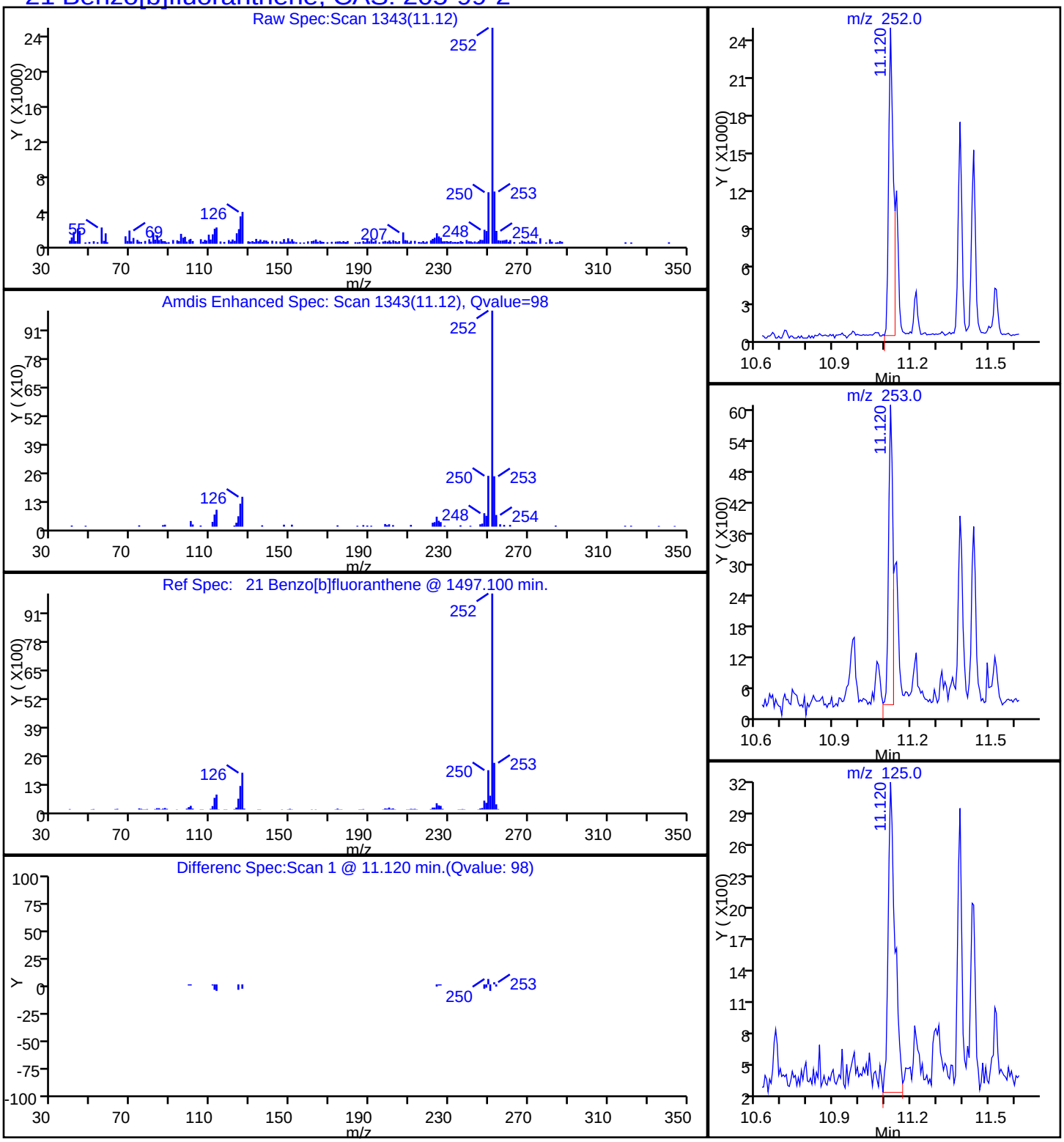


Report Date: 04-Nov-2014 09:15:23 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0316.D				
Injection Date:	03-Nov-2014 16:03:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-8-A	Lab Sample ID:	680-106803-8		
Client ID:	CV0971JJ-CS18"				
Operator ID:	RM	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

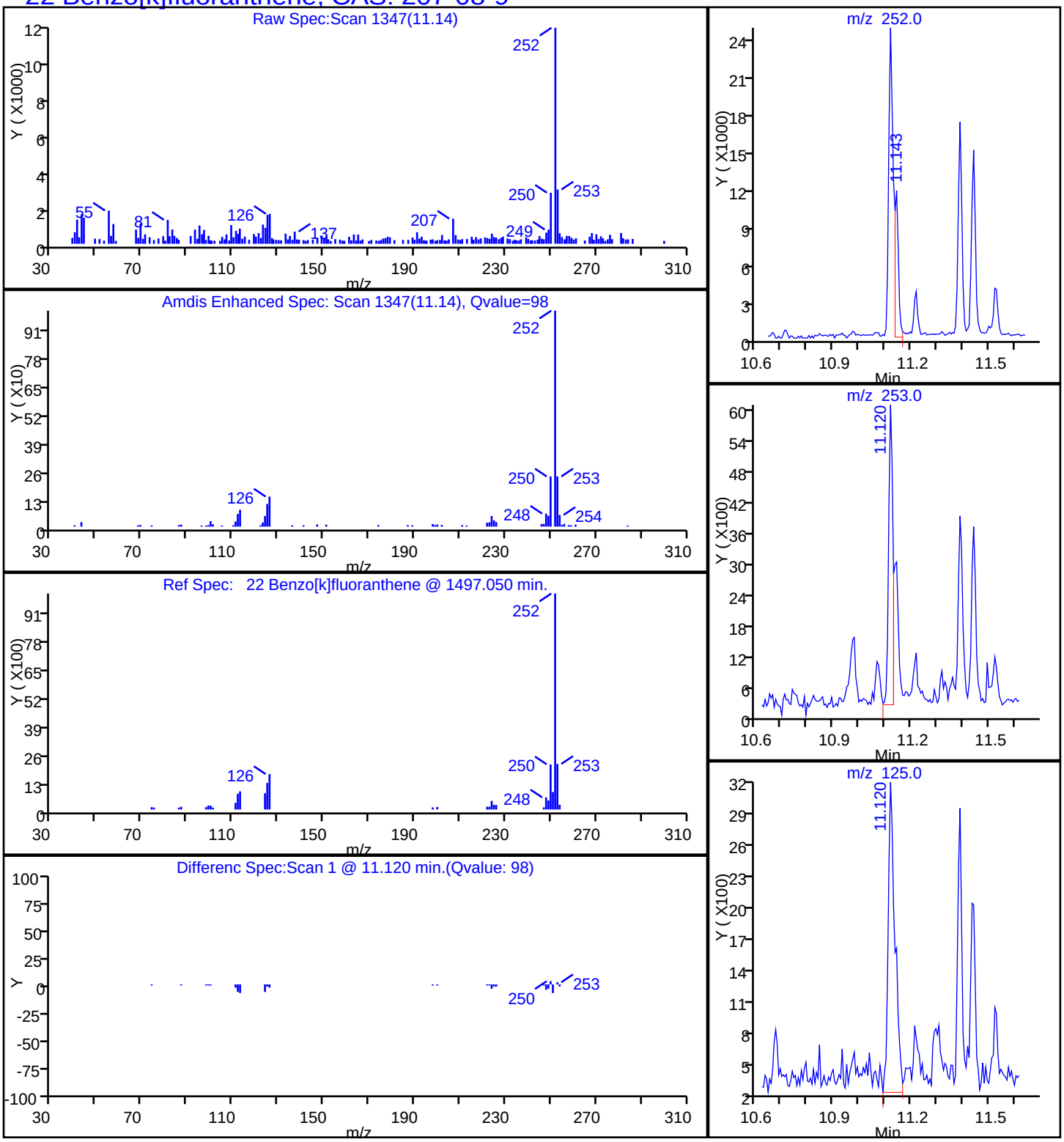


Report Date: 04-Nov-2014 09:15:23 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0316.D				
Injection Date:	03-Nov-2014 16:03:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-8-A	Lab Sample ID:	680-106803-8		
Client ID:	CV0971JJ-CS18"				
Operator ID:	RM	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

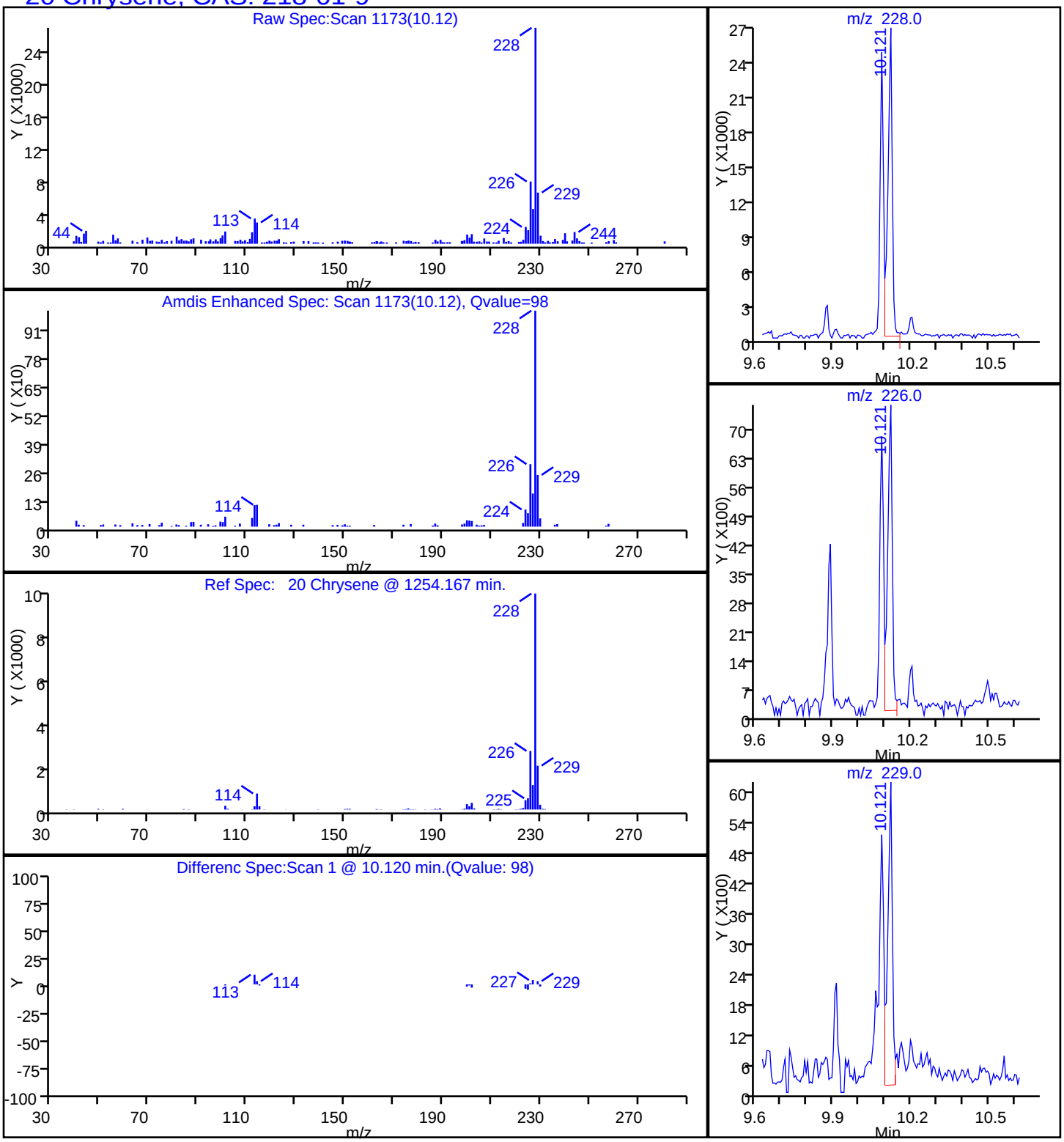


Report Date: 04-Nov-2014 09:15:23 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0316.D				
Injection Date:	03-Nov-2014 16:03:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-8-A	Lab Sample ID:	680-106803-8		
Client ID:	CV0971JJ-CS18"				
Operator ID:	RM	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

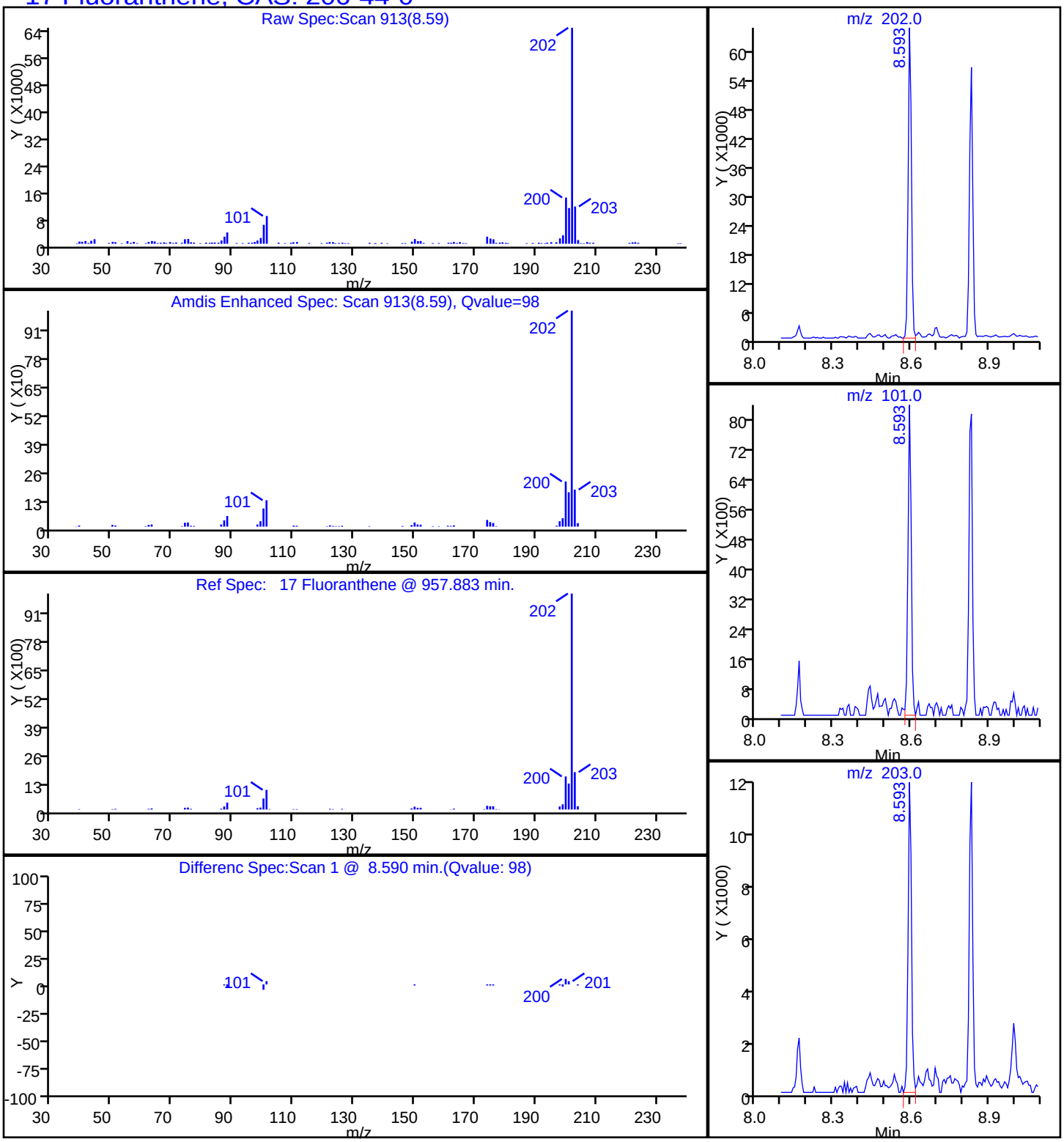


Report Date: 04-Nov-2014 09:15:23 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0316.D				
Injection Date:	03-Nov-2014 16:03:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-8-A	Lab Sample ID:	680-106803-8		
Client ID:	CV0971JJ-CS18"				
Operator ID:	RM	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

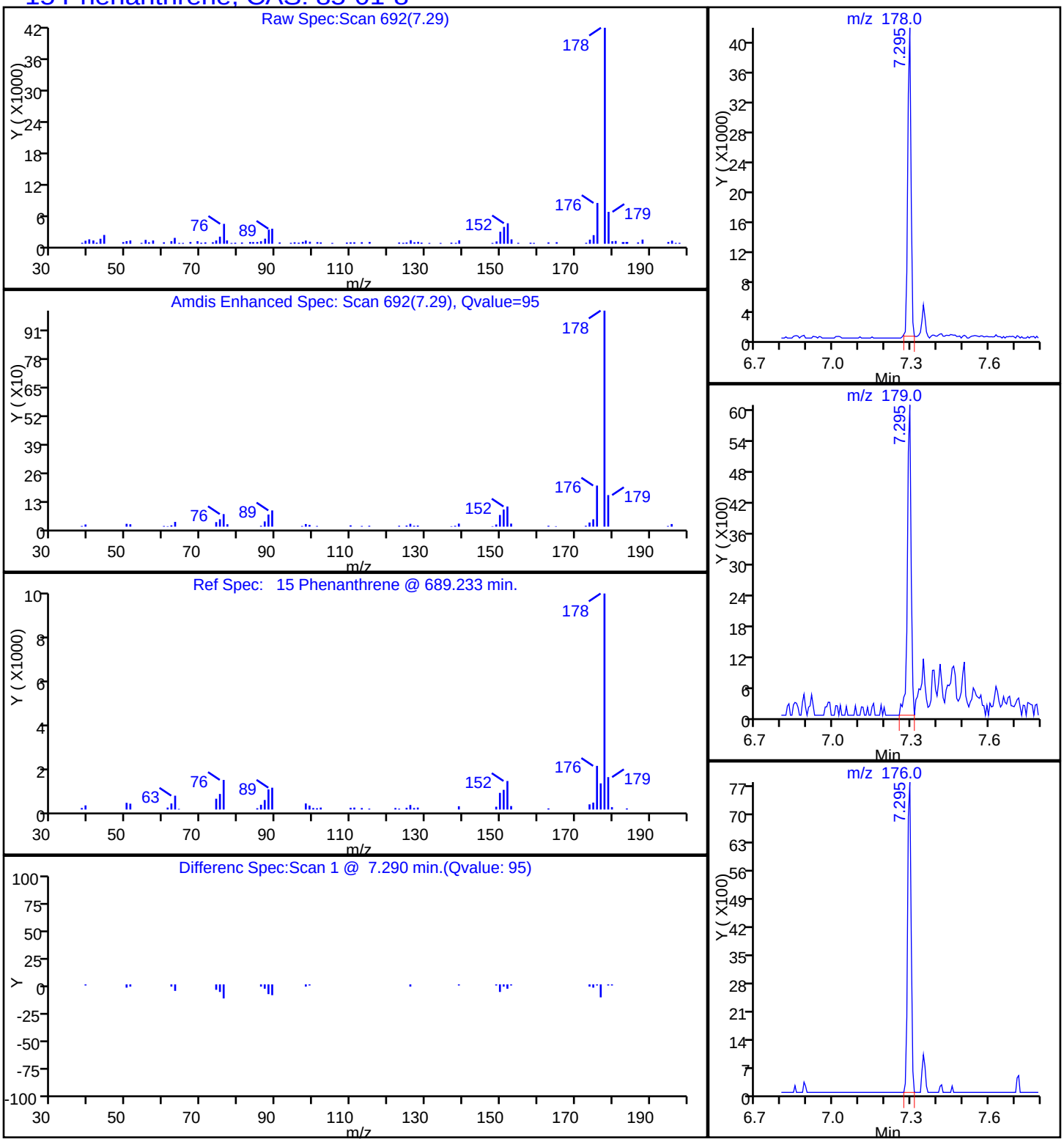


Report Date: 04-Nov-2014 09:15:23 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0316.D				
Injection Date:	03-Nov-2014 16:03:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-8-A	Lab Sample ID:	680-106803-8		
Client ID:	CV0971JJ-CS18"				
Operator ID:	RM	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

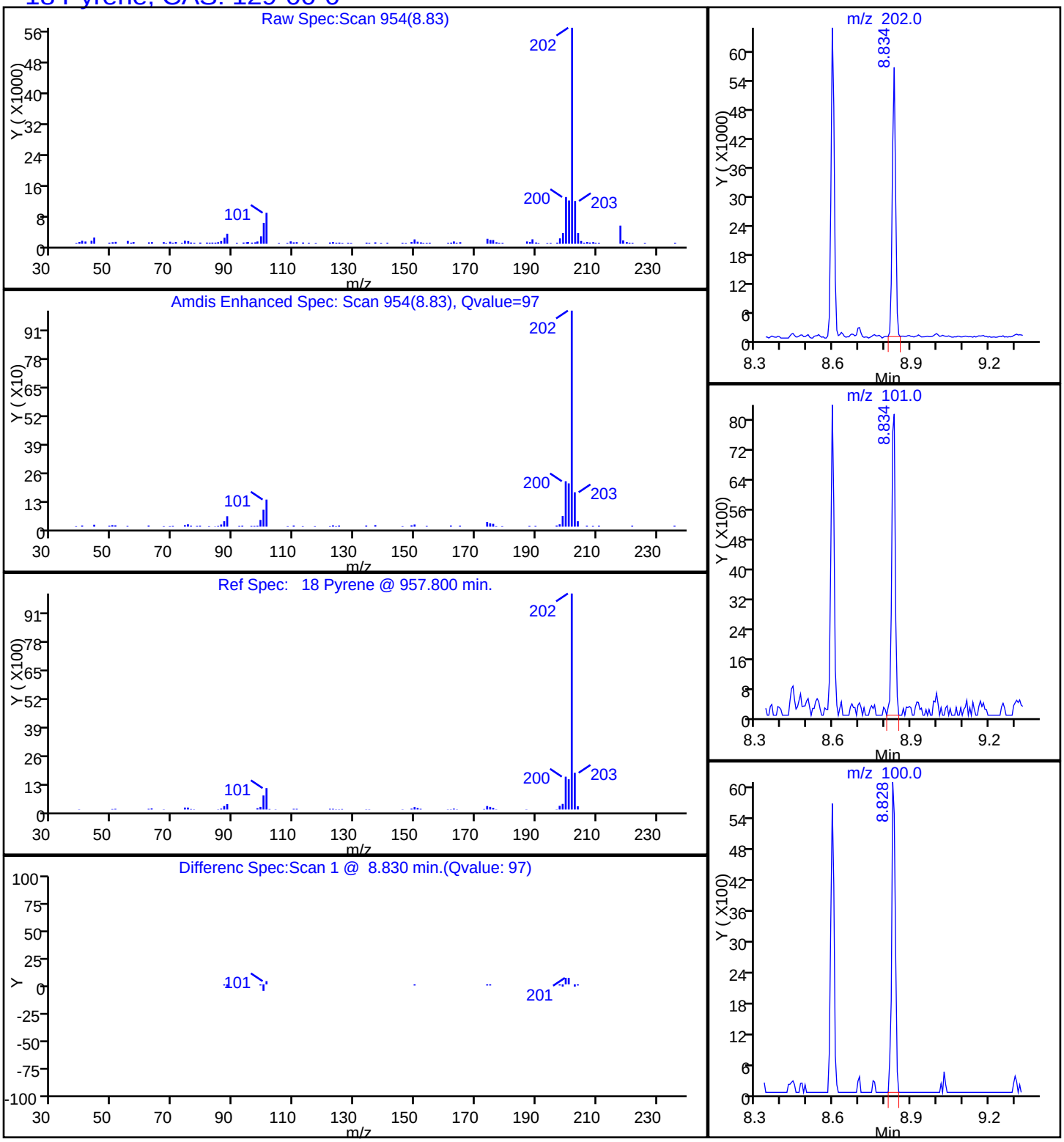


Report Date: 04-Nov-2014 09:15:23 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0316.D				
Injection Date:	03-Nov-2014 16:03:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-8-A	Lab Sample ID:	680-106803-8		
Client ID:	CV0971JJ-CS18"				
Operator ID:	RM	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

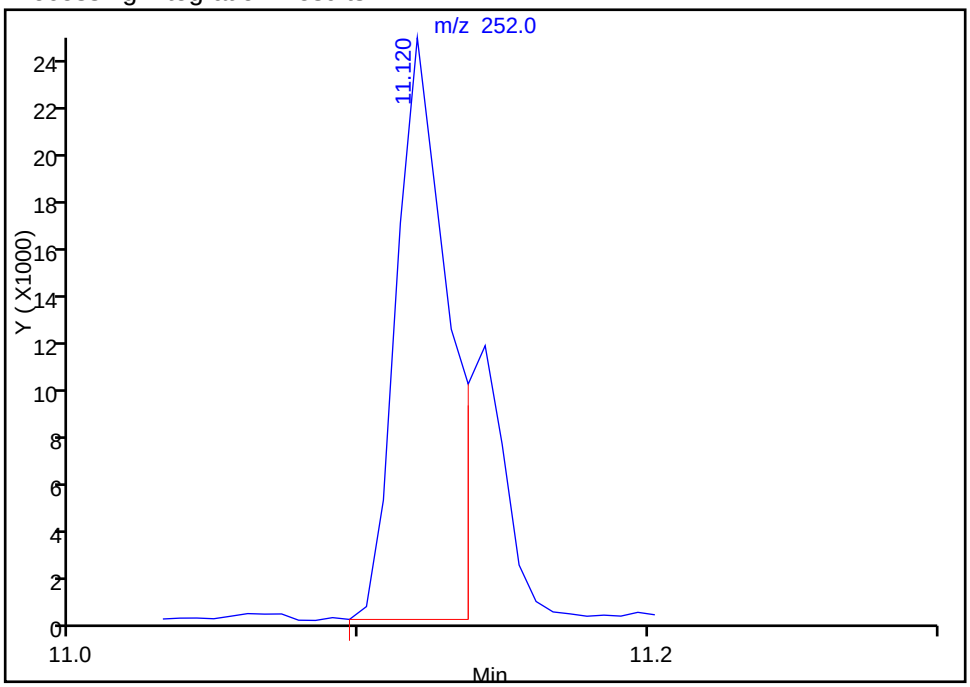
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0316.D				
Injection Date:	03-Nov-2014 16:03:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-8-A	Lab Sample ID:	680-106803-8		
Client ID:	CV0971JJ-CS18"				
Operator ID:	RM	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

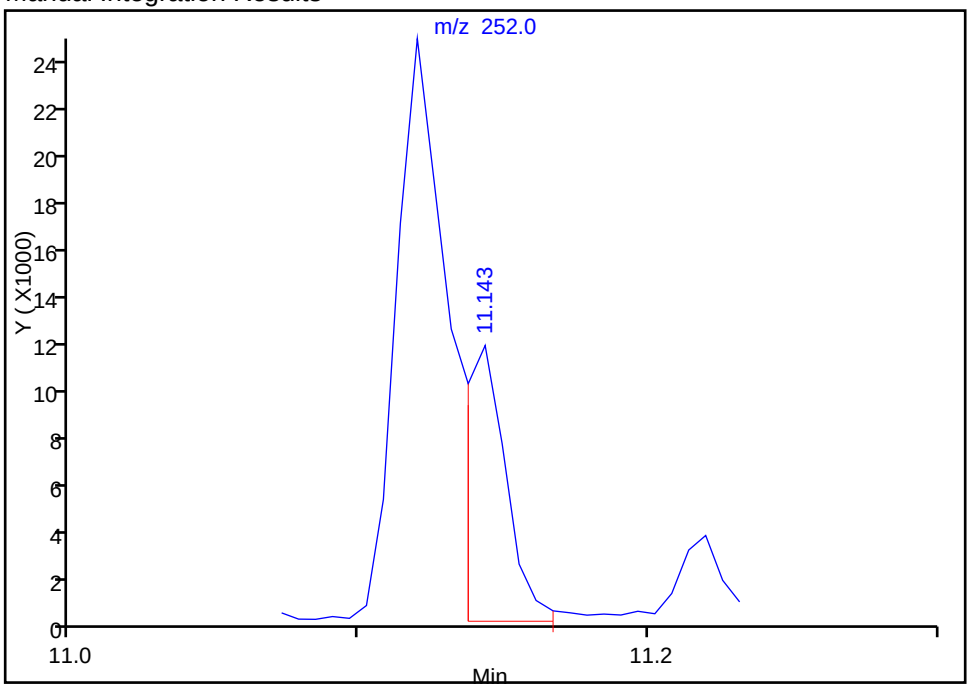
Processing Integration Results

RT: 11.12
Response: 30956
Amount: 0.285307



Manual Integration Results

RT: 11.14
Response: 11674
Amount: 0.107594



Reviewer: webbk, 03-Nov-2014 16:54:04
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971JJ-CS24" | Lab Sample ID: 680-106803-9

Matrix: Solid | Lab File ID: 1KK0317.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 09:25

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.01(g) | Date Analyzed: 11/03/2014 16:25

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

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

% Moisture: 15.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | 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	15		7.9	3.9
50-32-8	Benzo[a]pyrene	17		7.9	1.4
205-99-2	Benzo[b]fluoranthene	31		7.9	3.9
191-24-2	Benzo[g,h,i]perylene	8.1		7.9	3.9
207-08-9	Benzo[k]fluoranthene	9.2		7.9	2.4
218-01-9	Chrysene	23		7.9	3.9
53-70-3	Dibenz(a,h)anthracene	7.9	U	7.9	3.9
206-44-0	Fluoranthene	21		7.9	3.9
86-73-7	Fluorene	7.9	U	7.9	3.9
193-39-5	Indeno[1,2,3-cd]pyrene	5.1	J	7.9	3.9
90-12-0	1-Methylnaphthalene	5.1	J	7.9	3.7
91-57-6	2-Methylnaphthalene	7.0	J	7.9	3.9
91-20-3	Naphthalene	7.9	U	7.9	3.9
85-01-8	Phenanthrene	13		7.9	2.8
129-00-0	Pyrene	20		7.9	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	55		36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0317.D
Lims ID: 680-106803-B-9-A Lab Sample ID: 680-106803-9
Client ID: CV0971JJ-CS24"
Sample Type: Client
Inject. Date: 03-Nov-2014 16:25:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-106803-B-9-A
Misc. Info.: 680-0014354-017
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 04-Nov-2014 09:15:09 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 03-Nov-2014 16:58:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.893	3.893	0.000	99	802522	4.00	s
* 2 Acenaphthene-d10	164	5.662	5.662	0.000	92	467580	4.00	s
* 3 Phenanthrene-d10	188	7.272	7.266	0.006	98	684444	4.00	s
* 4 Chrysene-d12	240	10.098	10.092	0.006	100	442181	4.00	s
* 5 Perylene-d12	264	11.502	11.496	0.006	99	271063	4.00	
$ 6 o-Terphenyl	230	7.712	7.712	0.000	90	150767	1.10	
7 Naphthalene	128	3.911	3.911	0.000	98	21125	0.0953	
9 2-Methylnaphthalene	142	4.581	4.586	-0.005	86	24343	0.1775	
8 1-Methylnaphthalene	142	4.681	4.680	0.001	93	16939	0.1305	
15 Phenanthrene	178	7.295	7.289	0.006	98	70606	0.3388	
16 Anthracene	178	7.348	7.348	0.000	83	7883	0.0402	7
17 Fluoranthene	202	8.594	8.594	0.000	98	111672	0.5353	
18 Pyrene	202	8.835	8.829	0.006	97	102587	0.5170	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	97	50959	0.3860	
20 Chrysene	228	10.121	10.115	0.006	99	71322	0.5723	
21 Benzo[b]fluoranthene	252	11.120	11.114	0.006	98	68969	0.7869	
22 Benzo[k]fluoranthene	252	11.144	11.138	0.006	97	21131	0.2329	M
23 Benzo[a]pyrene	252	11.443	11.437	0.006	97	32643	0.4267	
24 Indeno[1,2,3-cd]pyrene	276	12.771	12.765	0.006	98	15638	0.1298	
26 Benzo[g,h,i]perylene	276	13.147	13.141	0.006	97	15899	0.2048	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
s - Failed ISTD Recovery Test
Review Flags
M - Manually Integrated

Reagents:

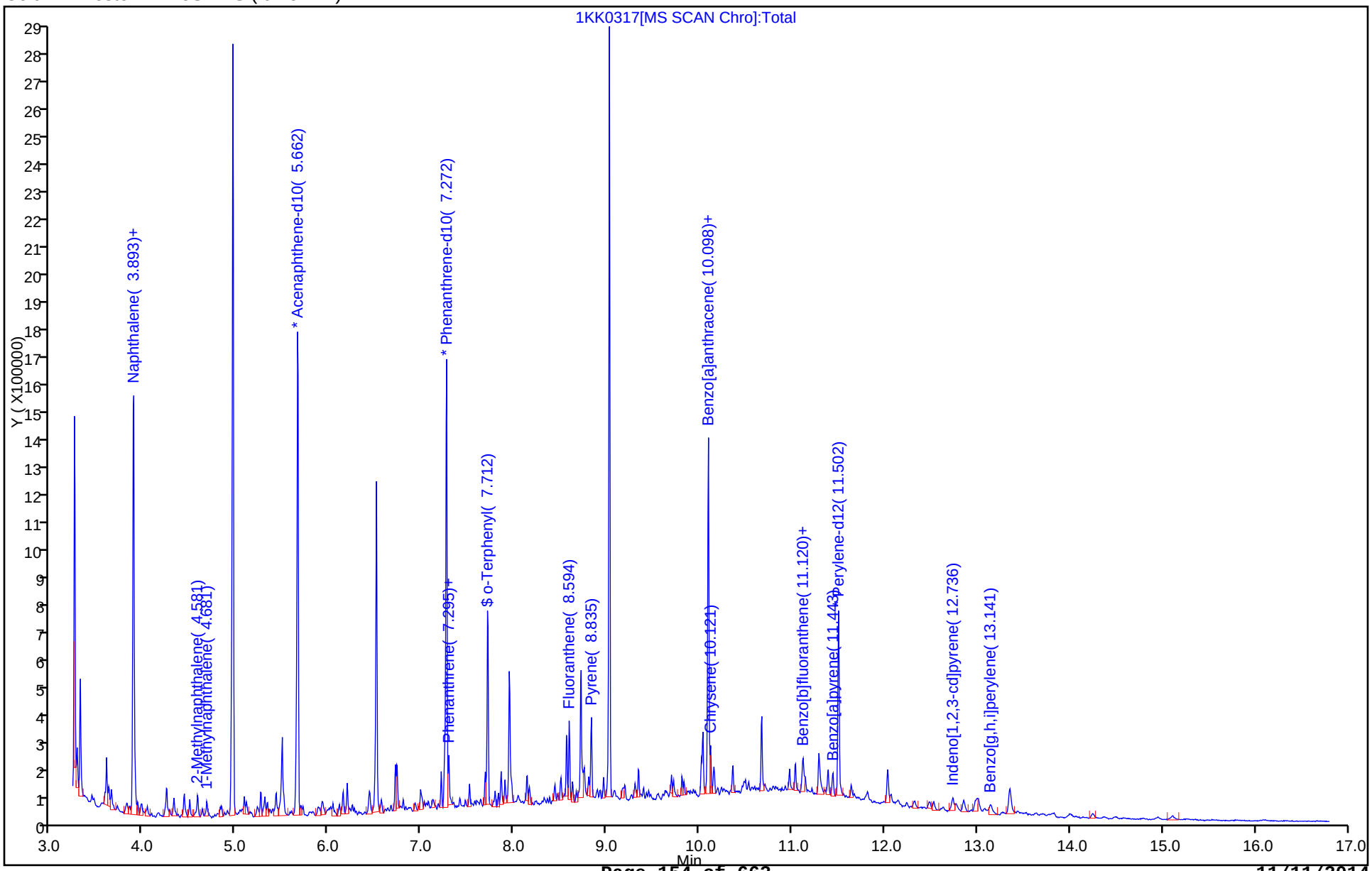
SM-LLISTD_00110 Amount Added: 20.00 Units: uL

Report Date: 04-Nov-2014 09:15:21 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0317.D				
Injection Date:	03-Nov-2014 16:25:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-9-A	Lab Sample ID:	680-106803-9	Worklist Smp#:	17
Client ID:	CV0971JJ-CS24"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

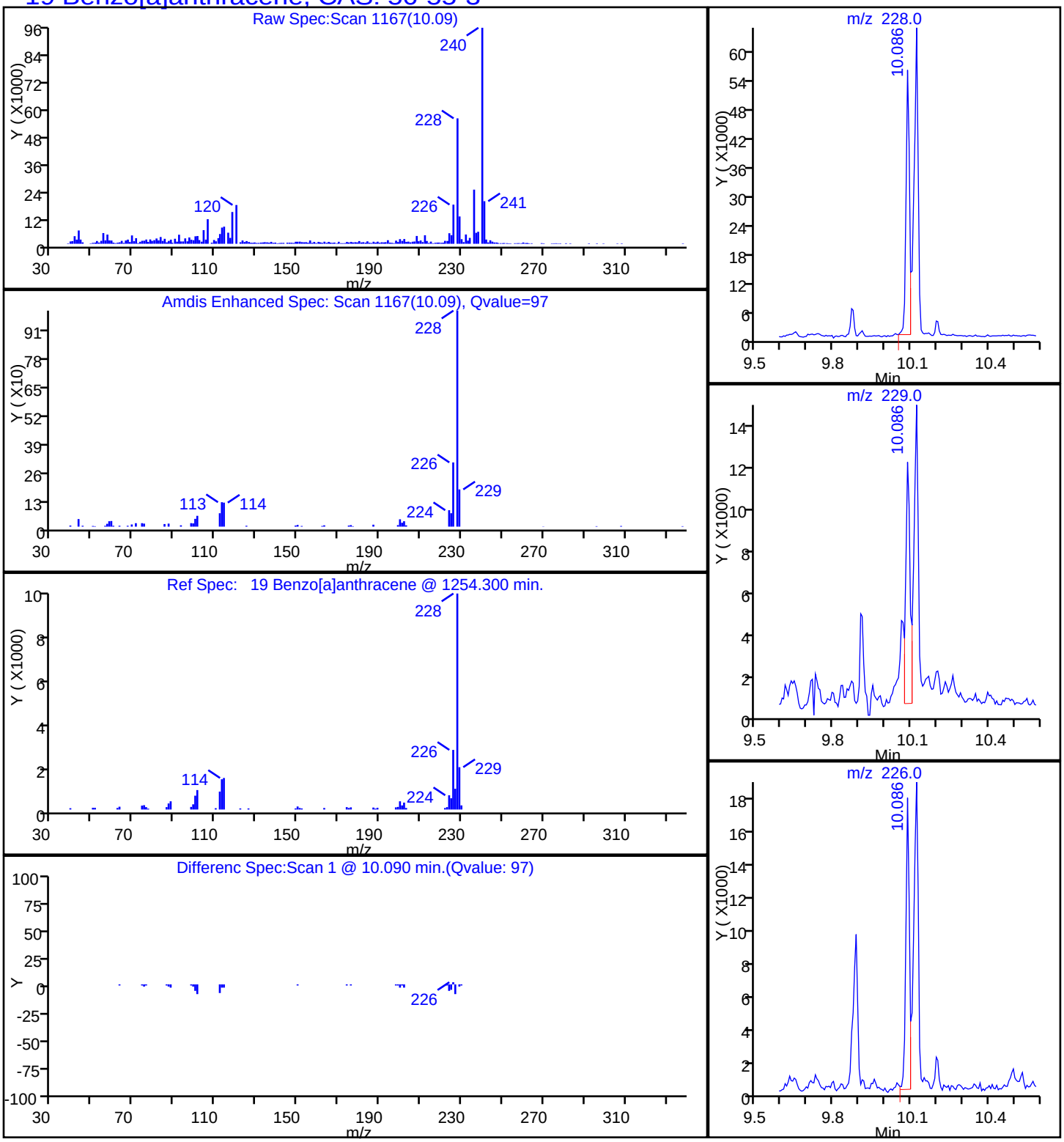


Report Date: 04-Nov-2014 09:15:22 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0317.D				
Injection Date:	03-Nov-2014 16:25:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-9-A	Lab Sample ID:	680-106803-9		
Client ID:	CV0971JJ-CS24"				
Operator ID:	RM	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

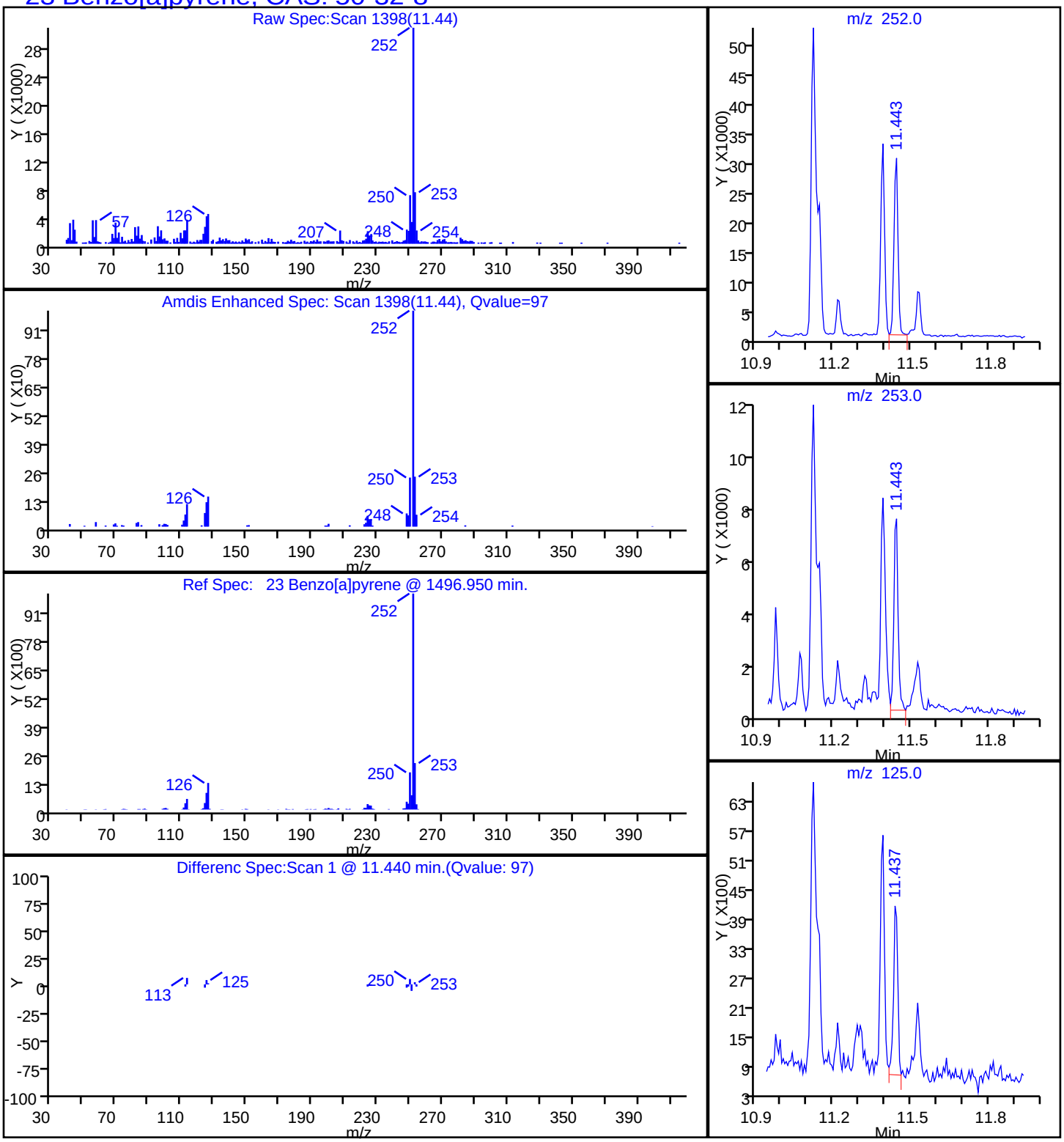


Report Date: 04-Nov-2014 09:15:22 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0317.D				
Injection Date:	03-Nov-2014 16:25:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-9-A	Lab Sample ID:	680-106803-9		
Client ID:	CV0971JJ-CS24"				
Operator ID:	RM	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

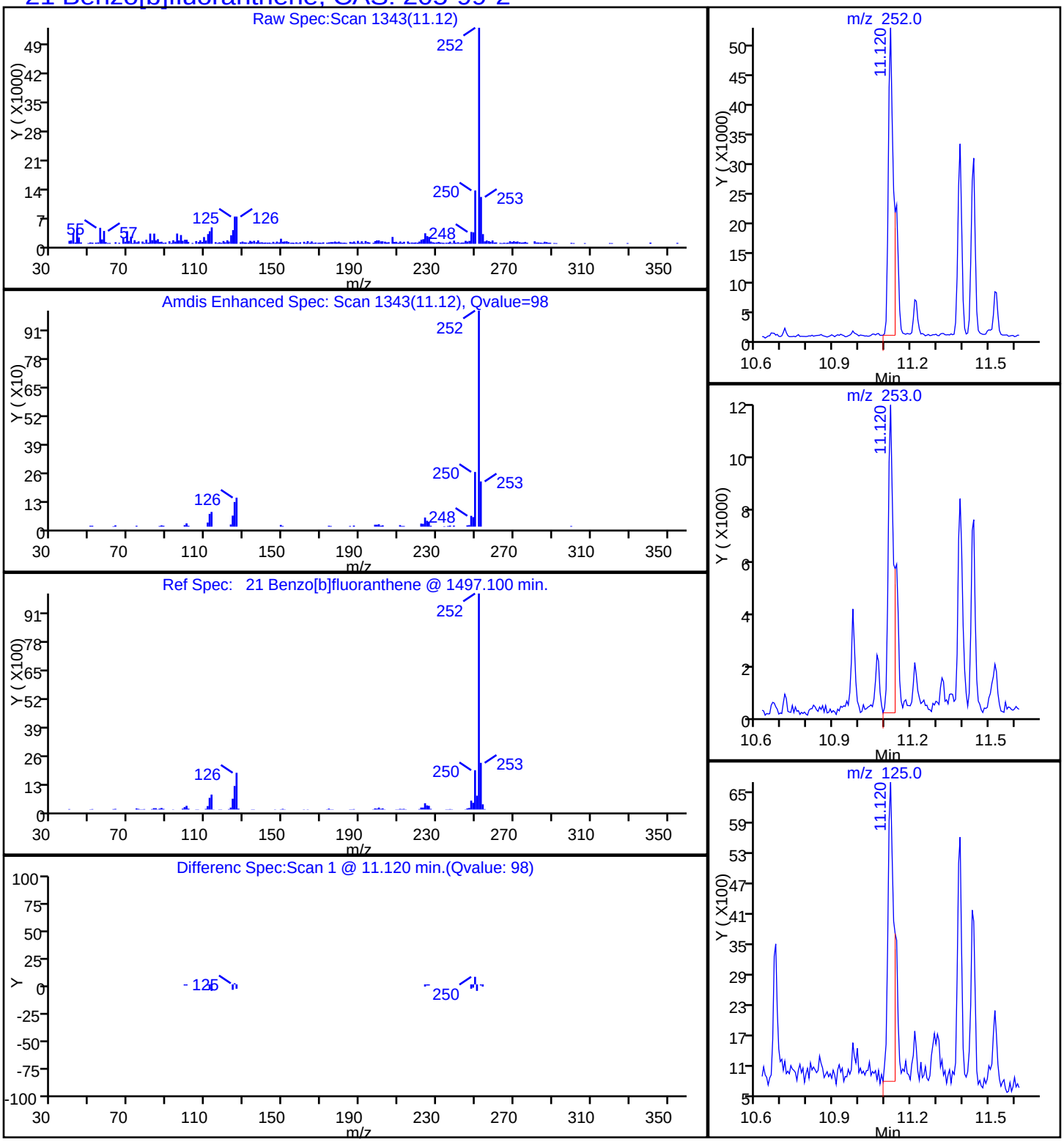


Report Date: 04-Nov-2014 09:15:22 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0317.D				
Injection Date:	03-Nov-2014 16:25:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-9-A	Lab Sample ID:	680-106803-9		
Client ID:	CV0971JJ-CS24"				
Operator ID:	RM	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

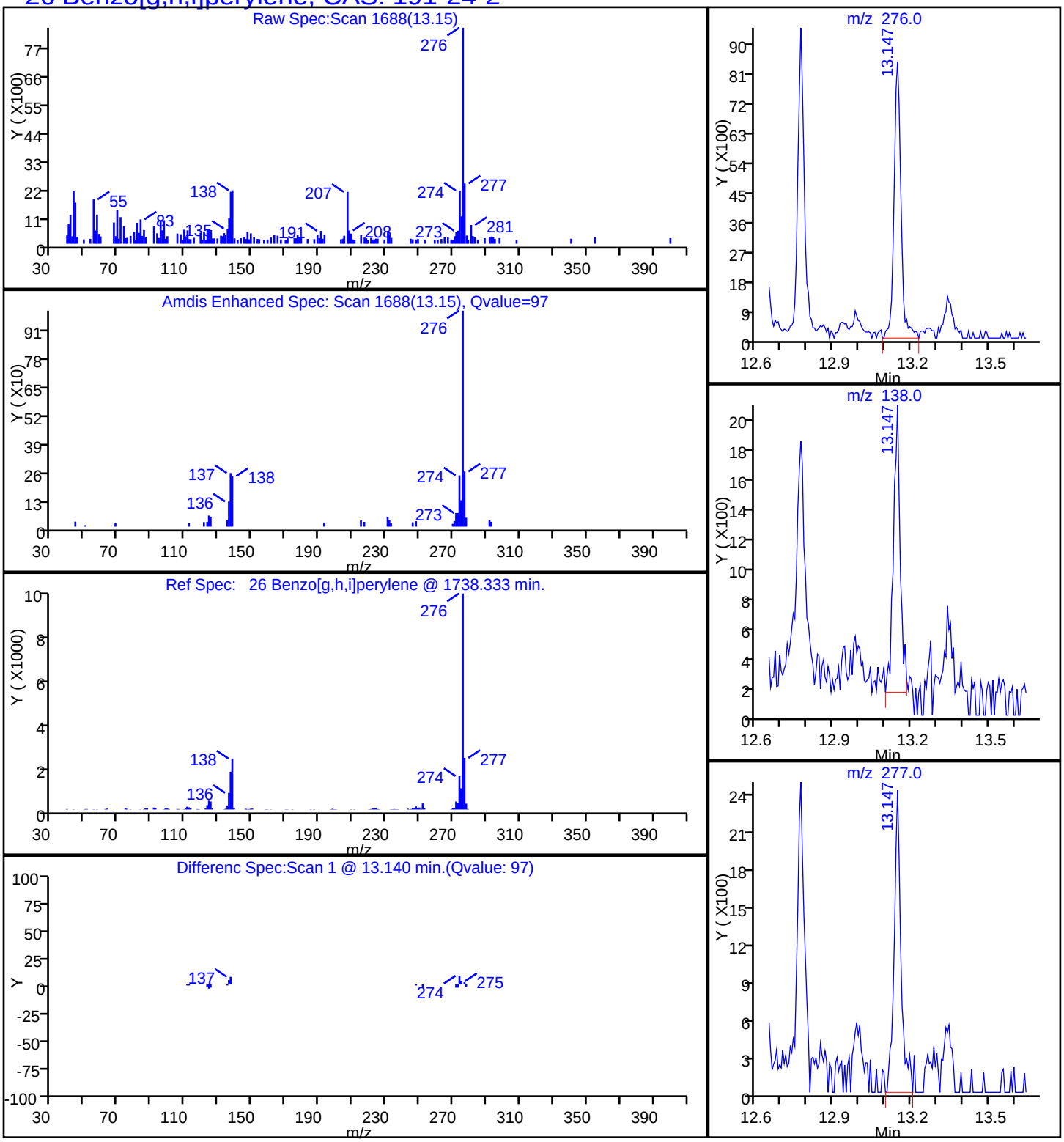


Report Date: 04-Nov-2014 09:15:22 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0317.D				
Injection Date:	03-Nov-2014 16:25:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-9-A	Lab Sample ID:	680-106803-9		
Client ID:	CV0971JJ-CS24"				
Operator ID:	RM	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

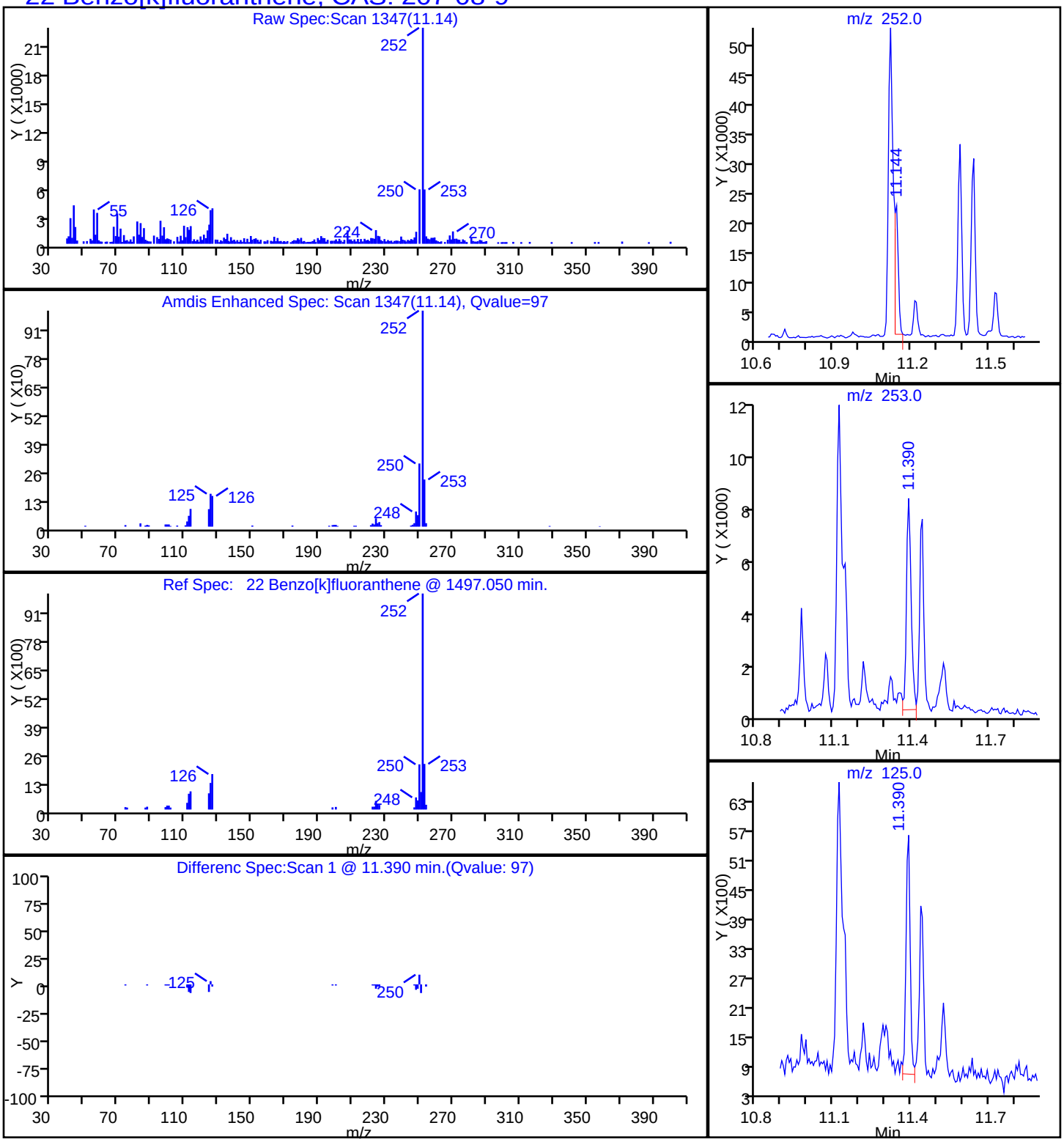


Report Date: 04-Nov-2014 09:15:22 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0317.D				
Injection Date:	03-Nov-2014 16:25:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-9-A	Lab Sample ID:	680-106803-9		
Client ID:	CV0971JJ-CS24"				
Operator ID:	RM	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

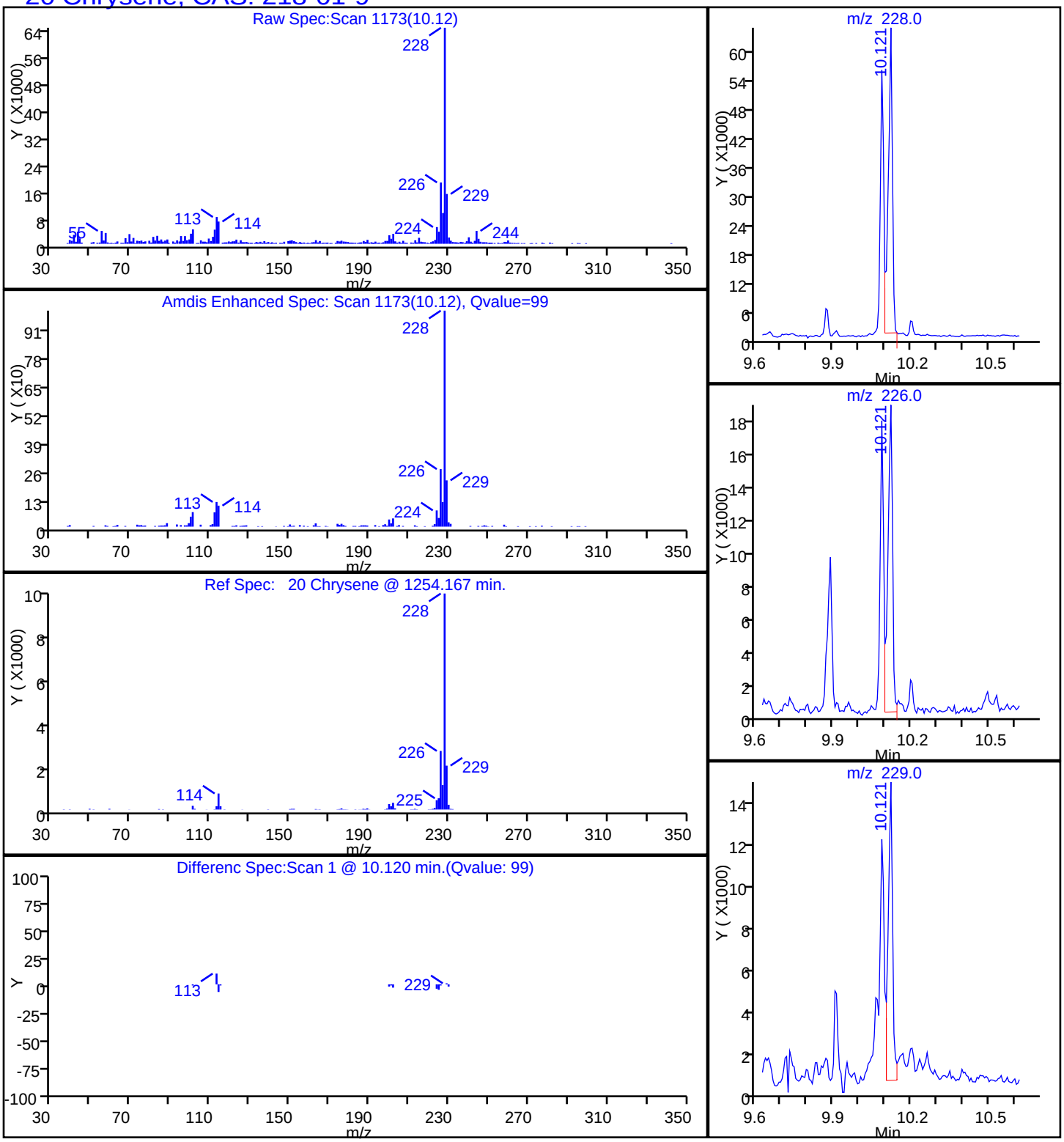


Report Date: 04-Nov-2014 09:15:22 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0317.D				
Injection Date:	03-Nov-2014 16:25:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-9-A	Lab Sample ID:	680-106803-9		
Client ID:	CV0971JJ-CS24"				
Operator ID:	RM	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

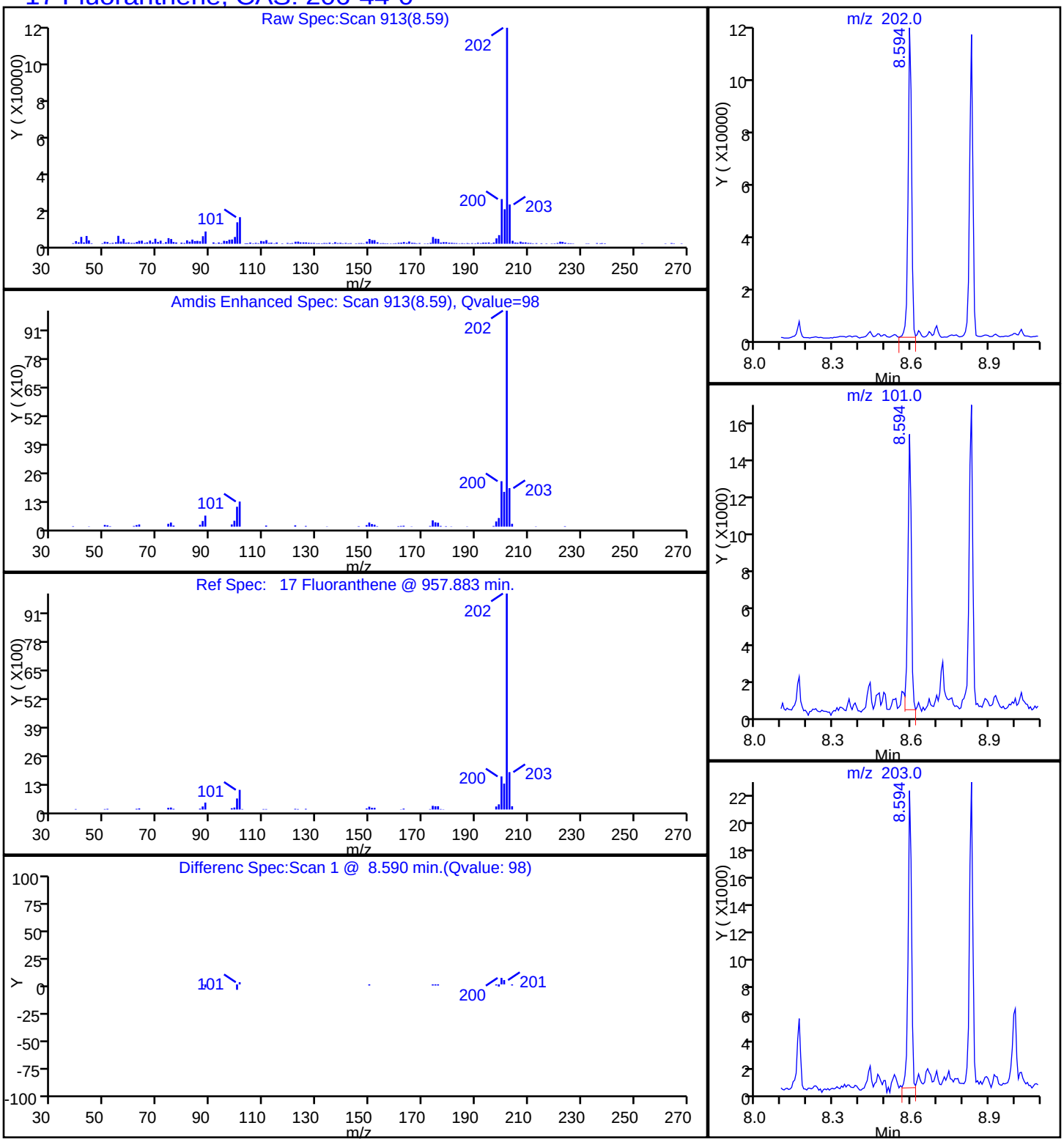


Report Date: 04-Nov-2014 09:15:22 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0317.D				
Injection Date:	03-Nov-2014 16:25:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-9-A	Lab Sample ID:	680-106803-9		
Client ID:	CV0971JJ-CS24"				
Operator ID:	RM	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

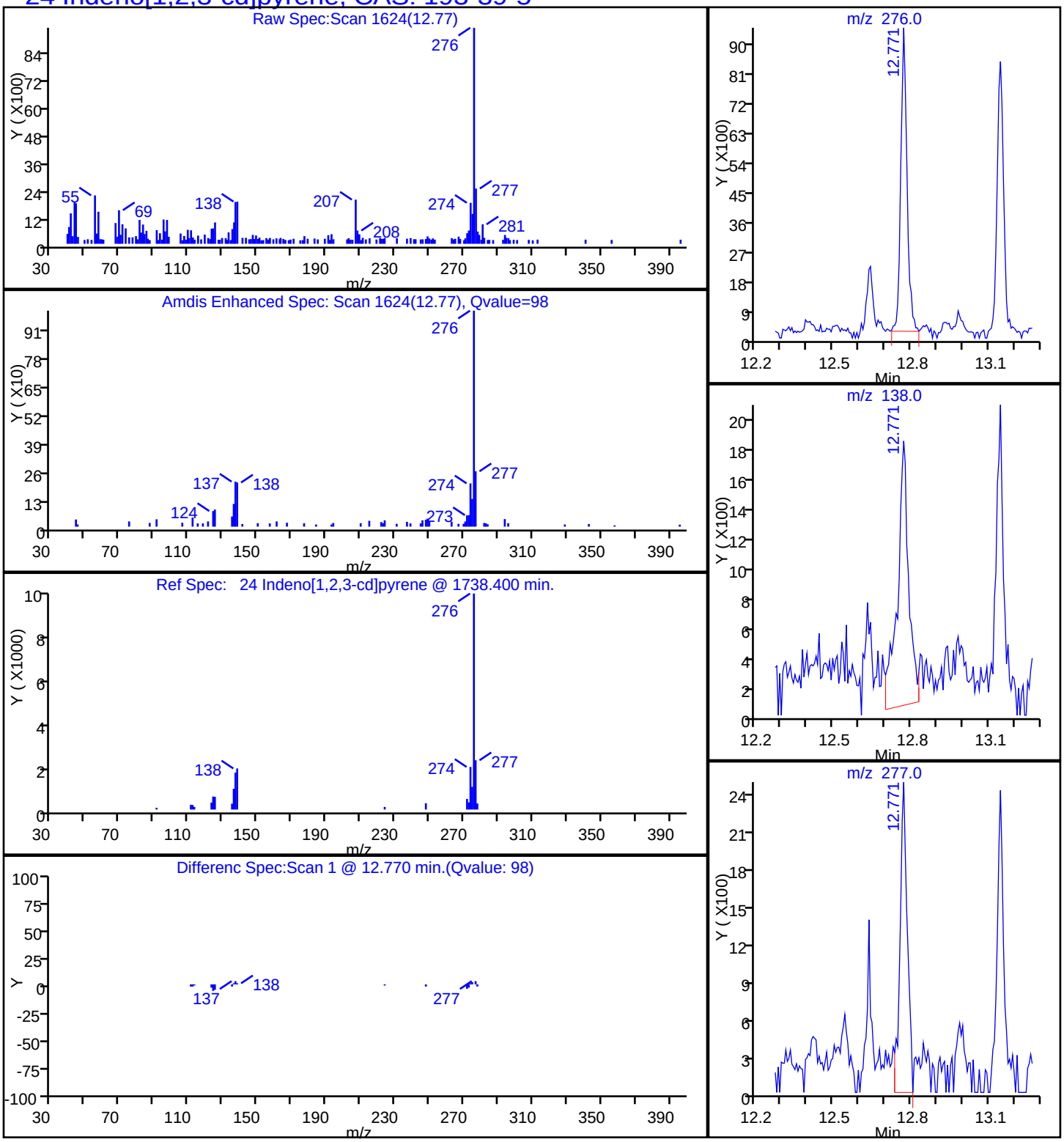


Report Date: 04-Nov-2014 09:15:22 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0317.D				
Injection Date:	03-Nov-2014 16:25:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-9-A	Lab Sample ID:	680-106803-9		
Client ID:	CV0971JJ-CS24"				
Operator ID:	RM	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

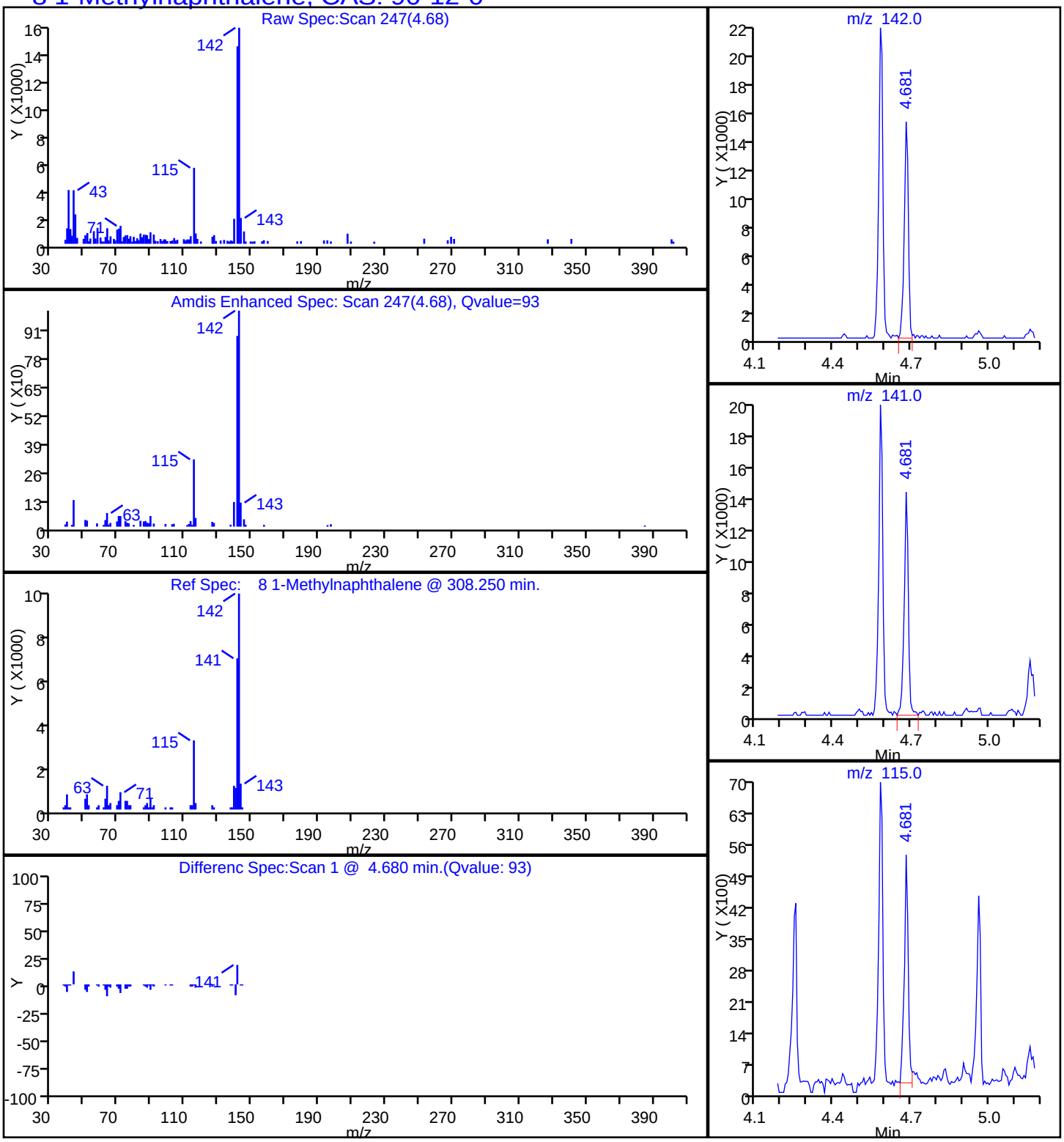


Report Date: 04-Nov-2014 09:15:21 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0317.D				
Injection Date:	03-Nov-2014 16:25:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-9-A	Lab Sample ID:	680-106803-9		
Client ID:	CV0971JJ-CS24"				
Operator ID:	RM	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

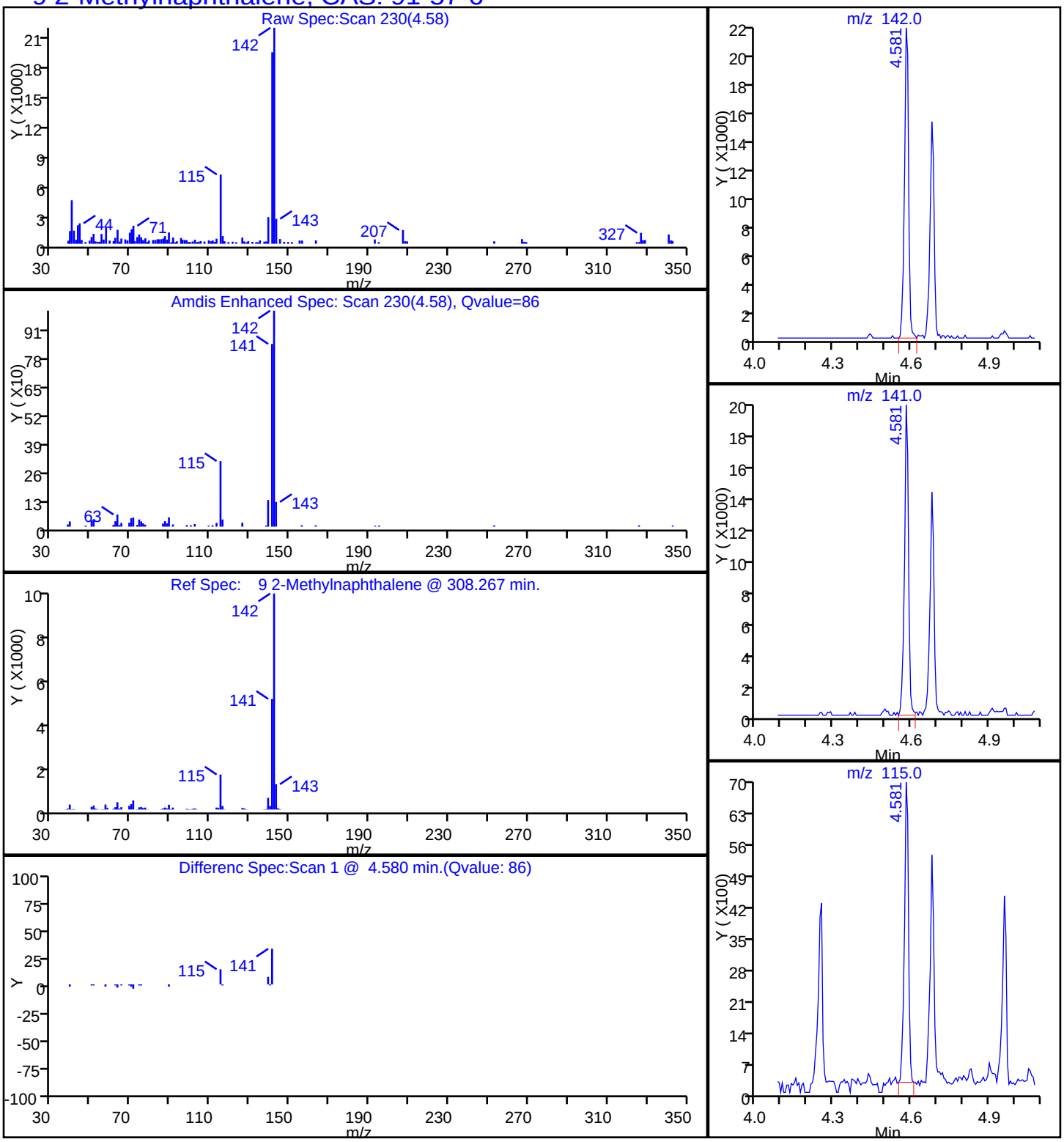


Report Date: 04-Nov-2014 09:15:21 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0317.D				
Injection Date:	03-Nov-2014 16:25:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-9-A	Lab Sample ID:	680-106803-9		
Client ID:	CV0971JJ-CS24"				
Operator ID:	RM	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

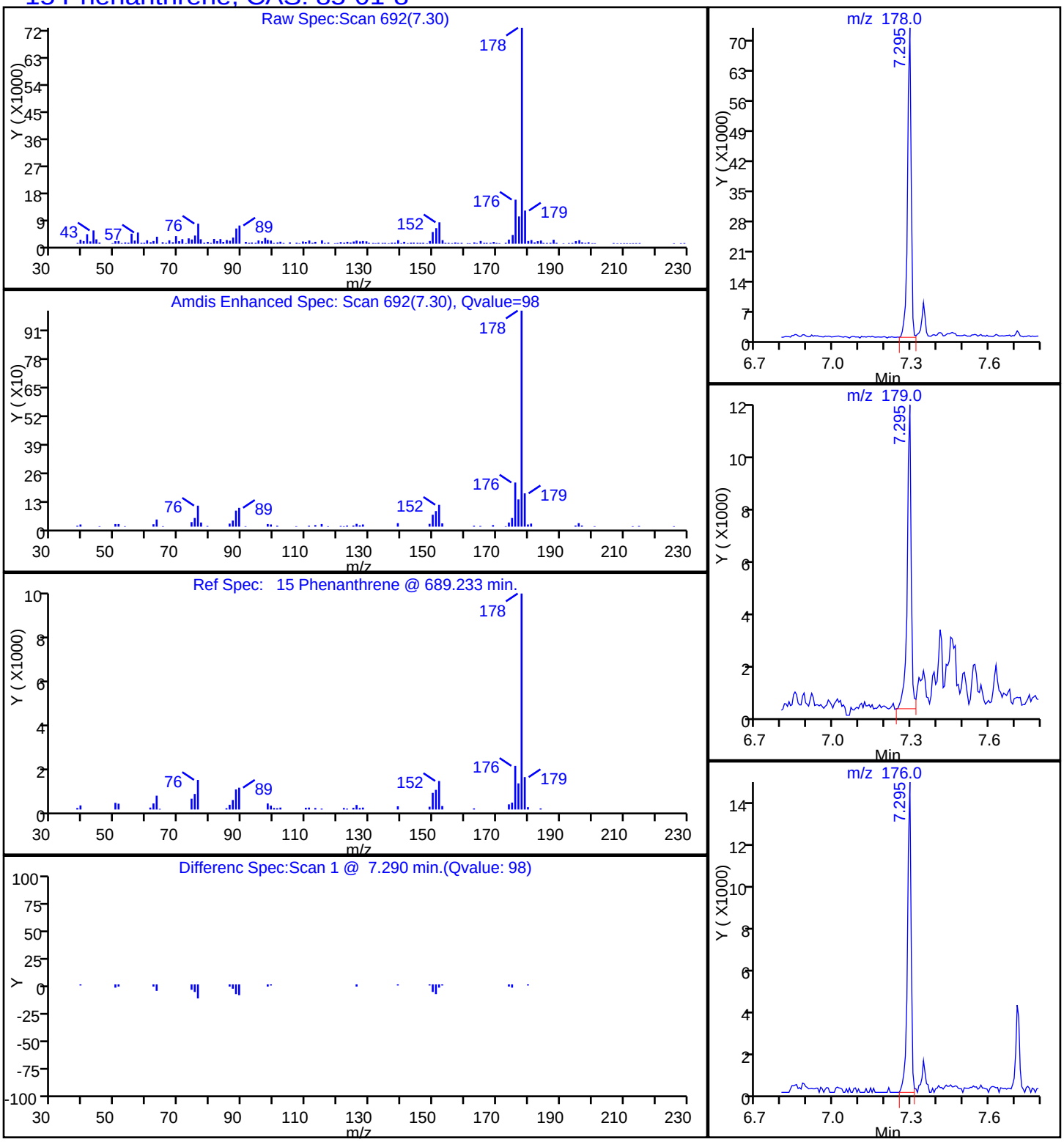


Report Date: 04-Nov-2014 09:15:21 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0317.D				
Injection Date:	03-Nov-2014 16:25:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-9-A	Lab Sample ID:	680-106803-9		
Client ID:	CV0971JJ-CS24"				
Operator ID:	RM	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

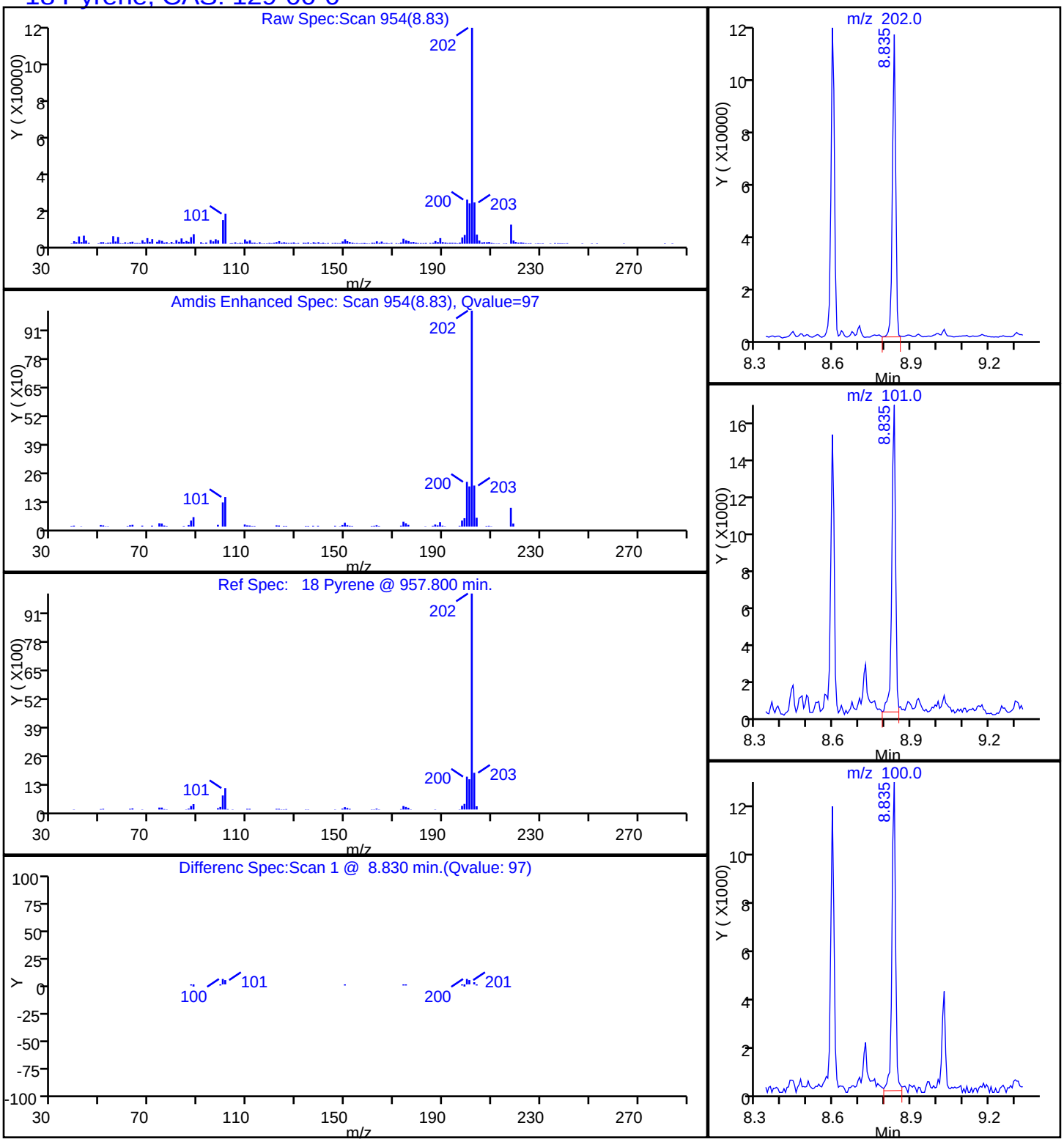


Report Date: 04-Nov-2014 09:15:22 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0317.D				
Injection Date:	03-Nov-2014 16:25:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-9-A	Lab Sample ID:	680-106803-9		
Client ID:	CV0971JJ-CS24"				
Operator ID:	RM	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

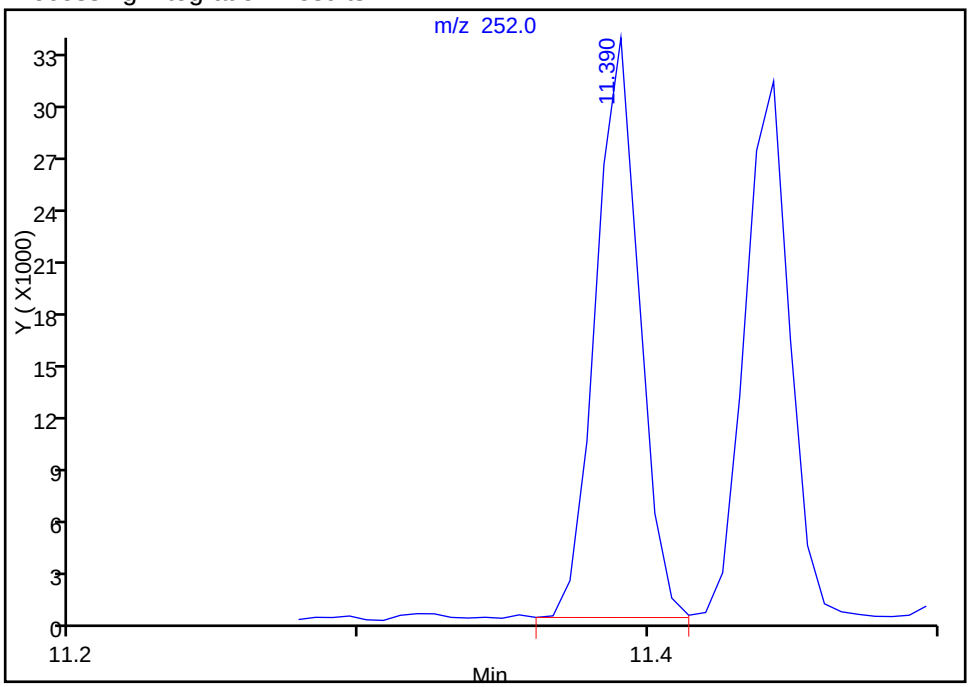
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0317.D				
Injection Date:	03-Nov-2014 16:25:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-9-A	Lab Sample ID:	680-106803-9		
Client ID:	CV0971JJ-CS24"				
Operator ID:	RM	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

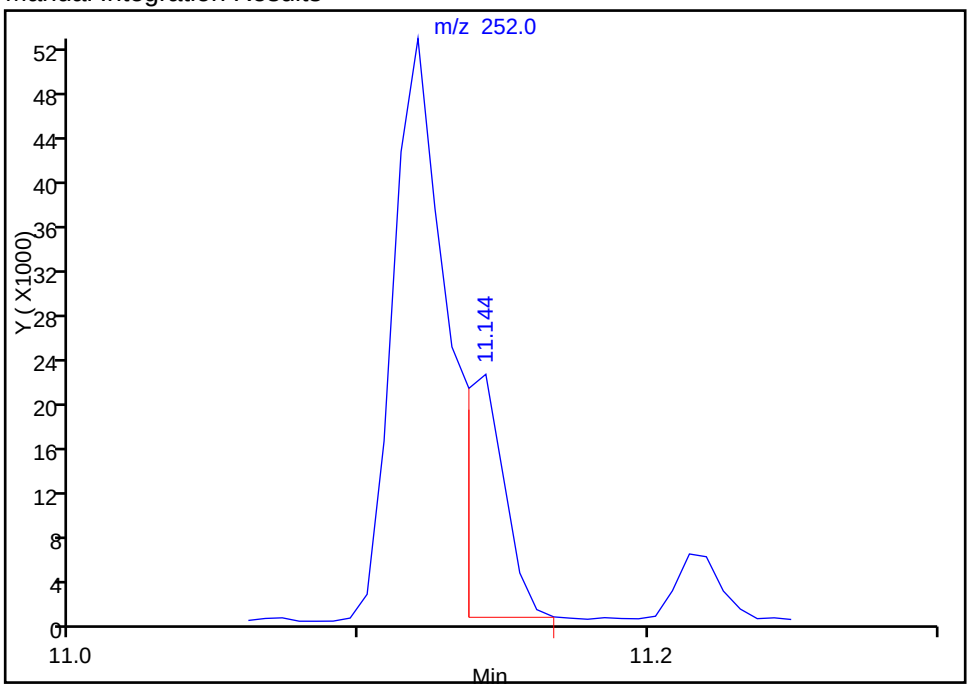
Processing Integration Results

RT: 11.39
Response: 33827
Amount: 0.372868



Manual Integration Results

RT: 11.14
Response: 21131
Amount: 0.232923



Reviewer: webbk, 03-Nov-2014 16:58:31
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971NN-CS6" | Lab Sample ID: 680-106803-10

Matrix: Solid | Lab File ID: 1KK0318.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 10:15

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.02(g) | Date Analyzed: 11/03/2014 16:48

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

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

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

Analysis Batch No.: 356621 | 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	78	U	78	38
56-55-3	Benzo[a]anthracene	190		78	38
50-32-8	Benzo[a]pyrene	230		78	14
205-99-2	Benzo[b]fluoranthene	390		78	38
191-24-2	Benzo[g,h,i]perylene	100		78	38
207-08-9	Benzo[k]fluoranthene	130		78	23
218-01-9	Chrysene	270		78	38
53-70-3	Dibenz(a,h)anthracene	78	U	78	38
206-44-0	Fluoranthene	320		78	38
86-73-7	Fluorene	78	U	78	38
193-39-5	Indeno[1,2,3-cd]pyrene	70	J	78	38
90-12-0	1-Methylnaphthalene	91		78	36
91-57-6	2-Methylnaphthalene	110		78	38
91-20-3	Naphthalene	80		78	38
85-01-8	Phenanthrene	190		78	28
129-00-0	Pyrene	300		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\CMSK\20141103-14354.b\1KK0318.D
Lims ID: 680-106803-B-10-A Lab Sample ID: 680-106803-10
Client ID: CV0971NN-CS6"
Sample Type: Client
Inject. Date: 03-Nov-2014 16:48:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 680-106803-B-10-A 1:10
Misc. Info.: 680-0014354-018
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 04-Nov-2014 09:15:09 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 04-Nov-2014 09:05:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.893	3.893	0.000	99	434080	2.00	
* 2 Acenaphthene-d10	164	5.662	5.662	0.000	93	250427	2.00	
* 3 Phenanthrene-d10	188	7.272	7.266	0.006	98	357429	2.00	
* 4 Chrysene-d12	240	10.098	10.092	0.006	99	229232	2.00	
* 5 Perylene-d12	264	11.502	11.496	0.006	99	149995	2.00	
7 Naphthalene	128	3.917	3.911	0.006	98	49503	0.2065	
9 2-Methylnaphthalene	142	4.586	4.586	0.000	86	42173	0.2843	
8 1-Methylnaphthalene	142	4.686	4.680	0.006	93	33155	0.2361	
15 Phenanthrene	178	7.295	7.289	0.006	97	108130	0.4967	
16 Anthracene	178	7.348	7.348	0.000	98	12258	0.0599	
17 Fluoranthene	202	8.594	8.594	0.000	98	180163	0.8268	
18 Pyrene	202	8.834	8.829	0.005	97	159026	0.7730	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	97	67313	0.4918	
20 Chrysene	228	10.121	10.115	0.006	98	90109	0.6974	
21 Benzo[b]fluoranthene	252	11.120	11.114	0.006	98	98731	1.02	
22 Benzo[k]fluoranthene	252	11.144	11.138	0.006	97	34689	0.3455	M
23 Benzo[a]pyrene	252	11.443	11.437	0.006	97	50057	0.5912	
24 Indeno[1,2,3-cd]pyrene	276	12.771	12.765	0.006	97	22647	0.1812	
25 Dibenz(a,h)anthracene	278	12.800	12.795	0.005	94	6661	0.0848	
26 Benzo[g,h,i]perylene	276	13.147	13.141	0.006	98	22435	0.2611	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

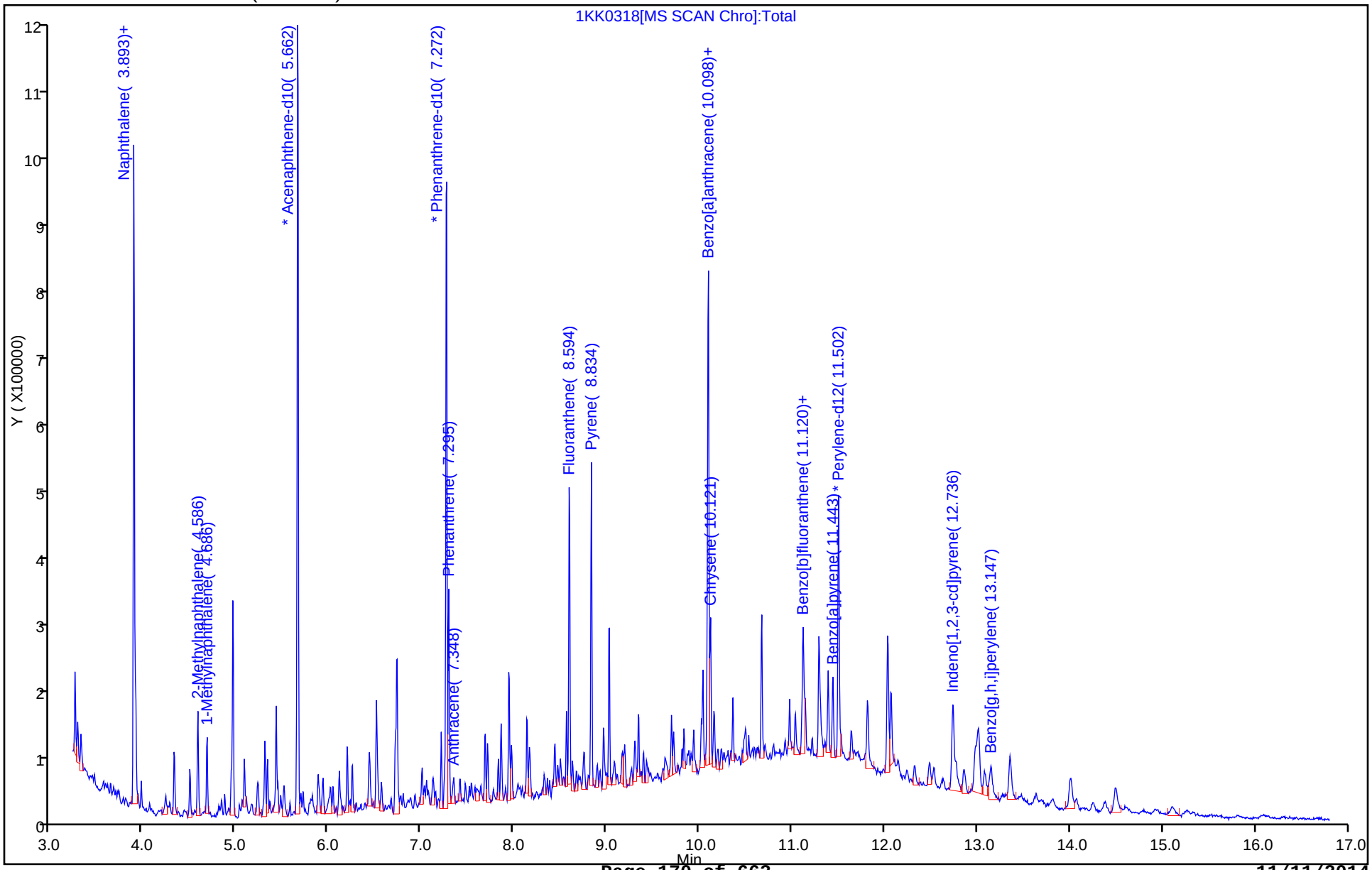
SM-LLISTD_00110 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 04-Nov-2014 09:15:20 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0318.D				
Injection Date:	03-Nov-2014 16:48:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-10-A	Lab Sample ID:	680-106803-10	Worklist Smp#:	18
Client ID:	CV0971NN-CS6"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	18
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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



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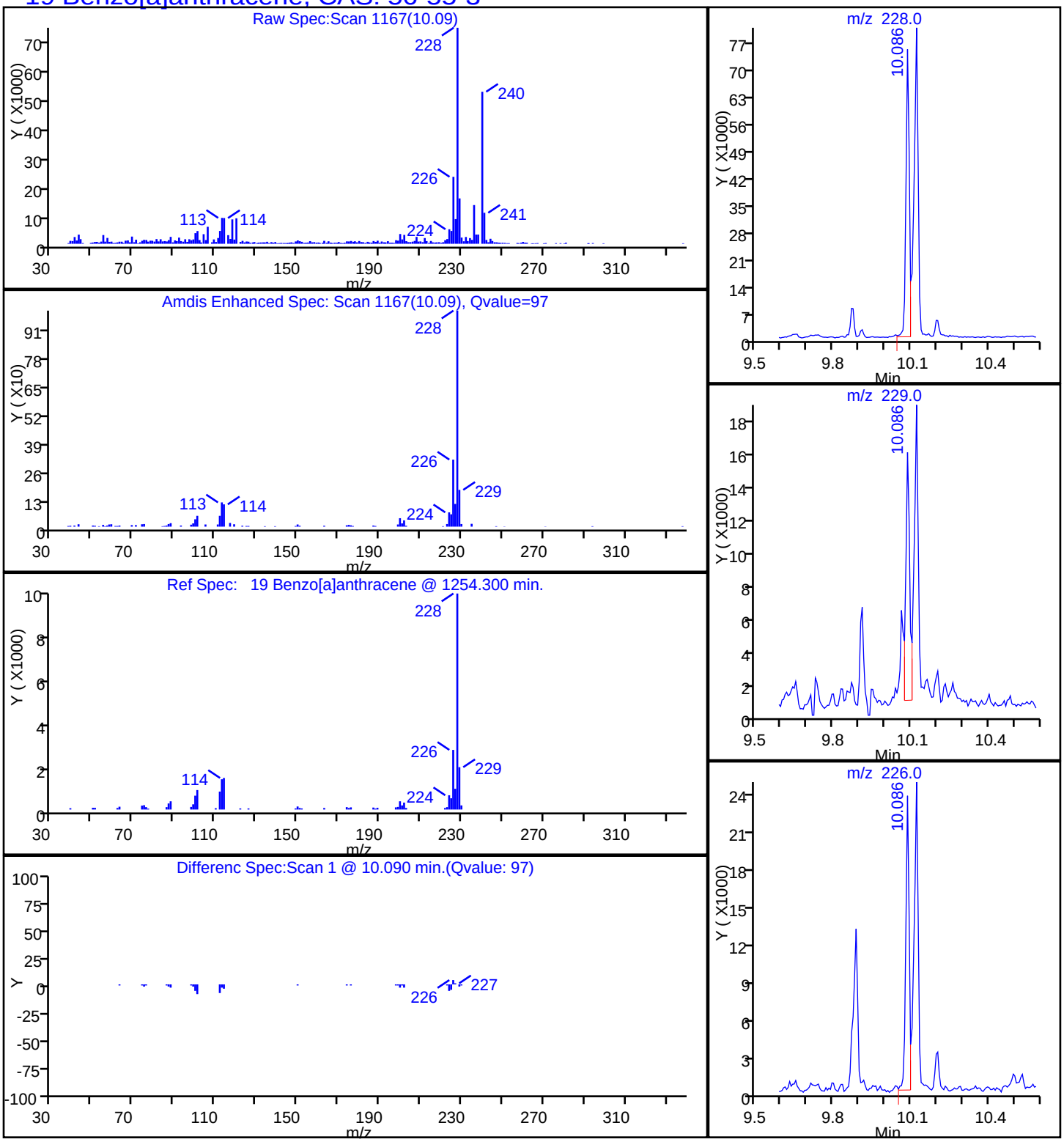
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0318.D				
Injection Date:	03-Nov-2014 16:48:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-10-A	Lab Sample ID:	680-106803-10		
Client ID:	CV0971NN-CS6"				
Operator ID:	RM	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

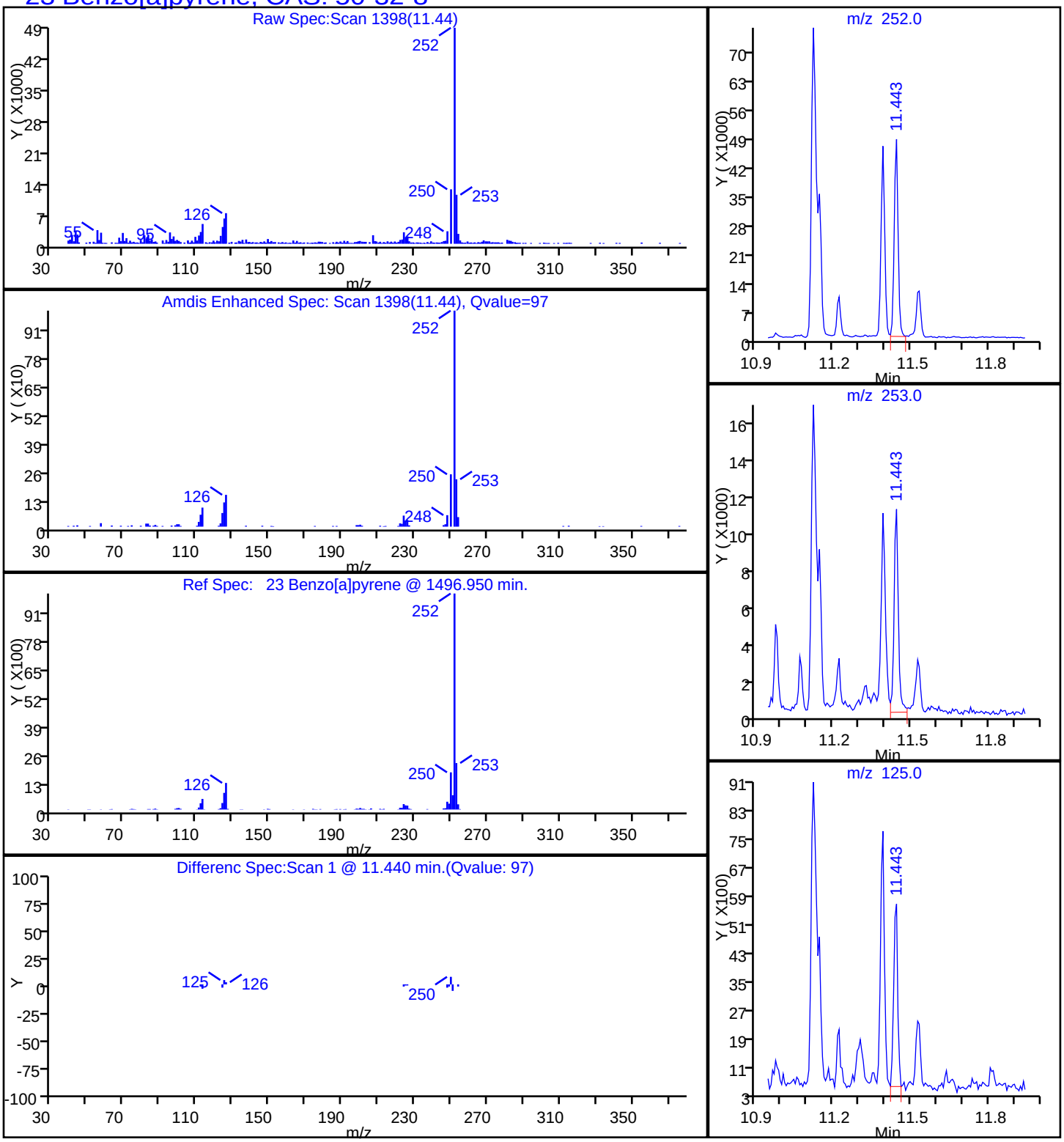


Report Date: 04-Nov-2014 09:15:21 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0318.D				
Injection Date:	03-Nov-2014 16:48:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-10-A	Lab Sample ID:	680-106803-10		
Client ID:	CV0971NN-CS6"				
Operator ID:	RM	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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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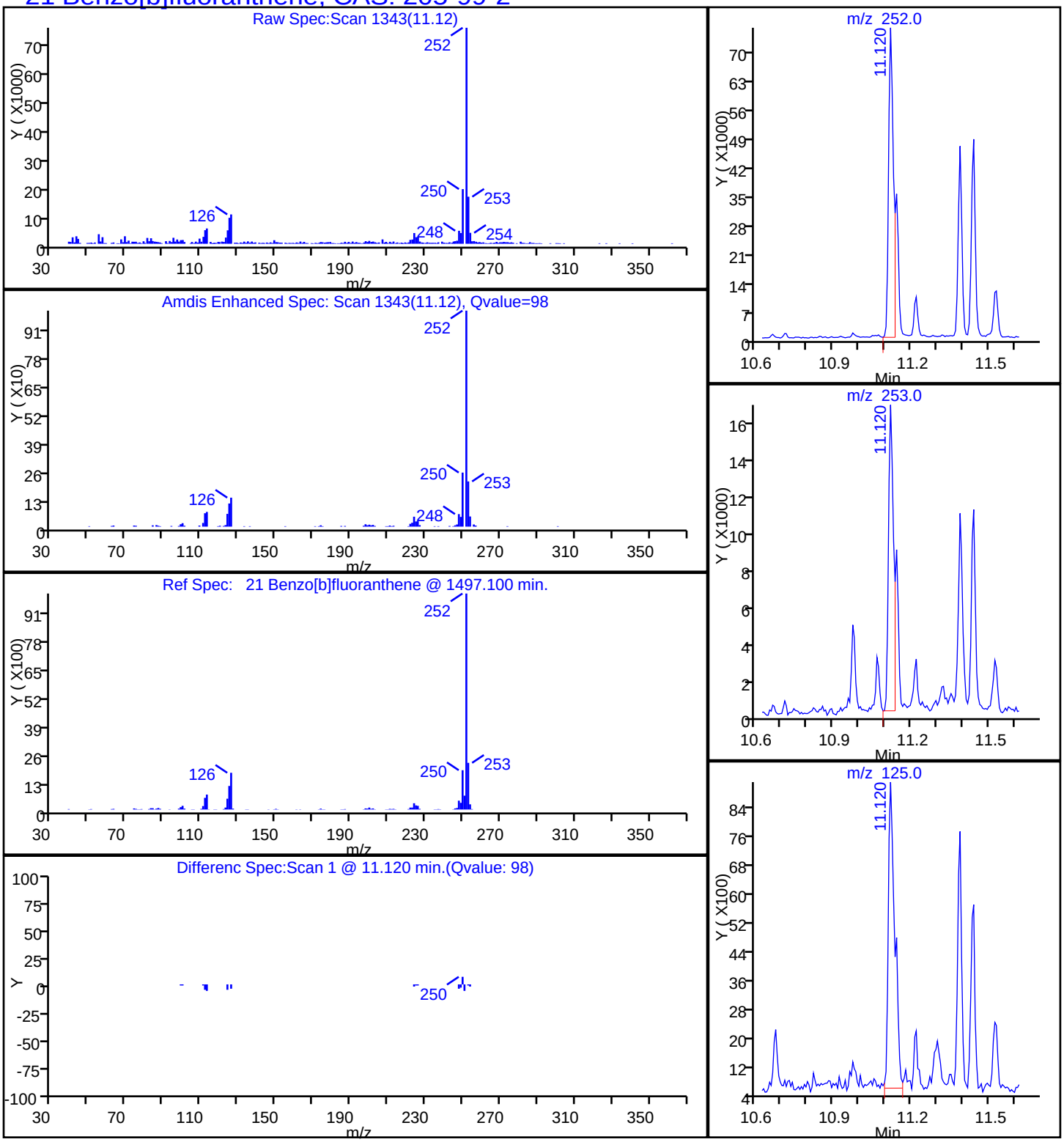
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0318.D				
Injection Date:	03-Nov-2014 16:48:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-10-A	Lab Sample ID:	680-106803-10		
Client ID:	CV0971NN-CS6"				
Operator ID:	RM	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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



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TestAmerica Savannah

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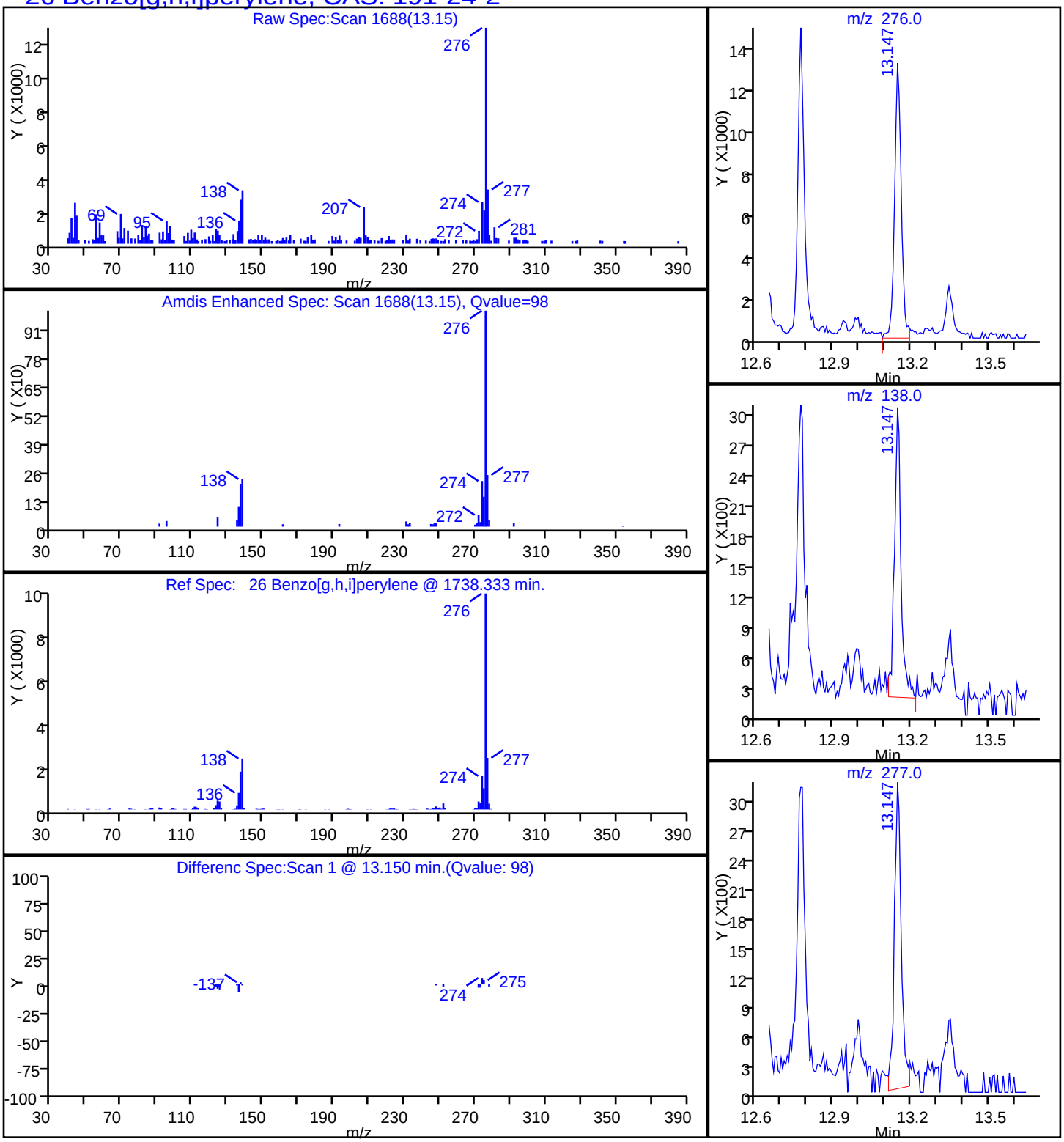
Injection Date:	03-Nov-2014 16:48:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-10-A	Lab Sample ID:	680-106803-10		
Client ID:	CV0971NN-CS6"				
Operator ID:	RM	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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



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TestAmerica Savannah

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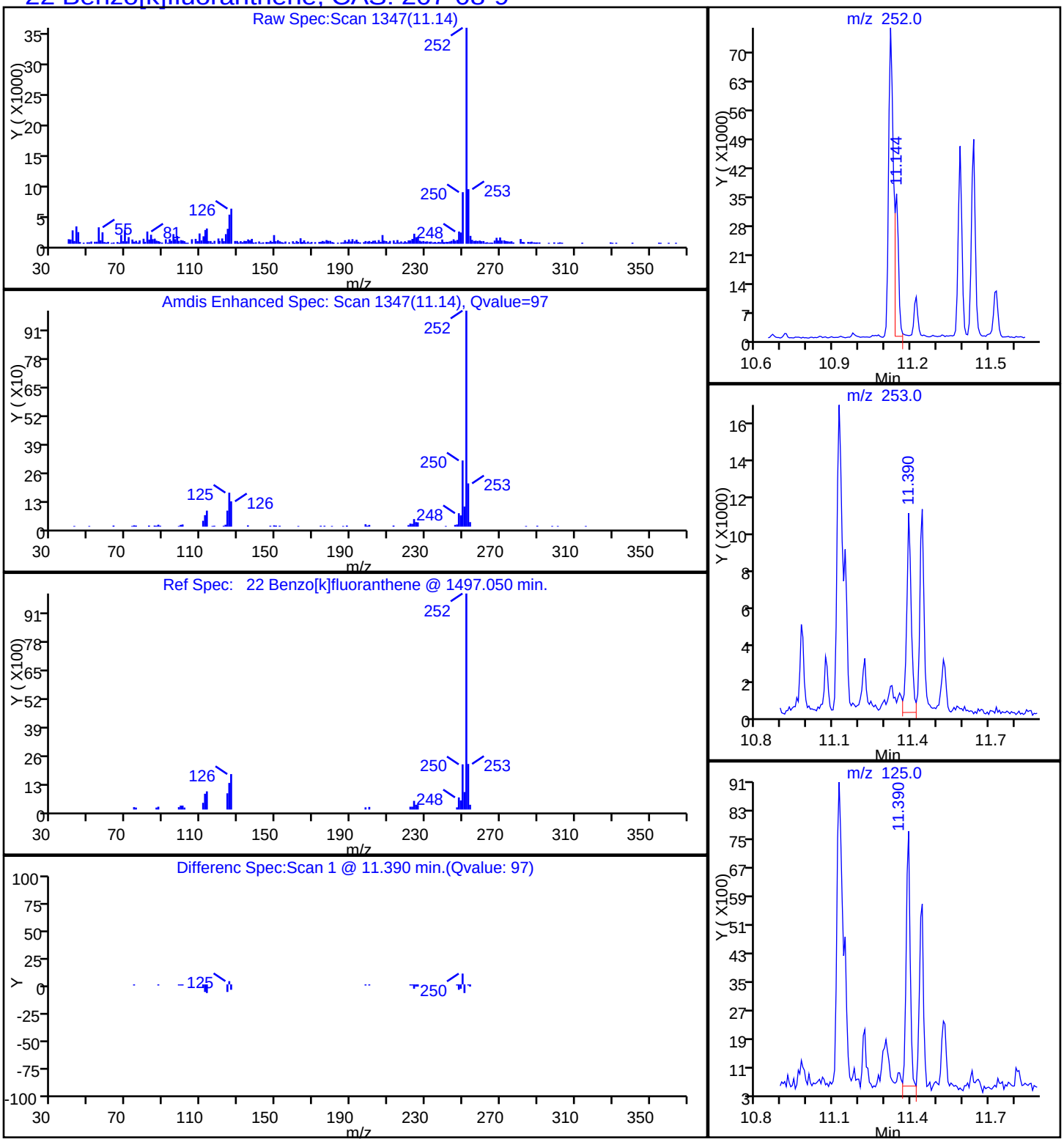
Injection Date:	03-Nov-2014 16:48:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-10-A	Lab Sample ID:	680-106803-10		
Client ID:	CV0971NN-CS6"				
Operator ID:	RM	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	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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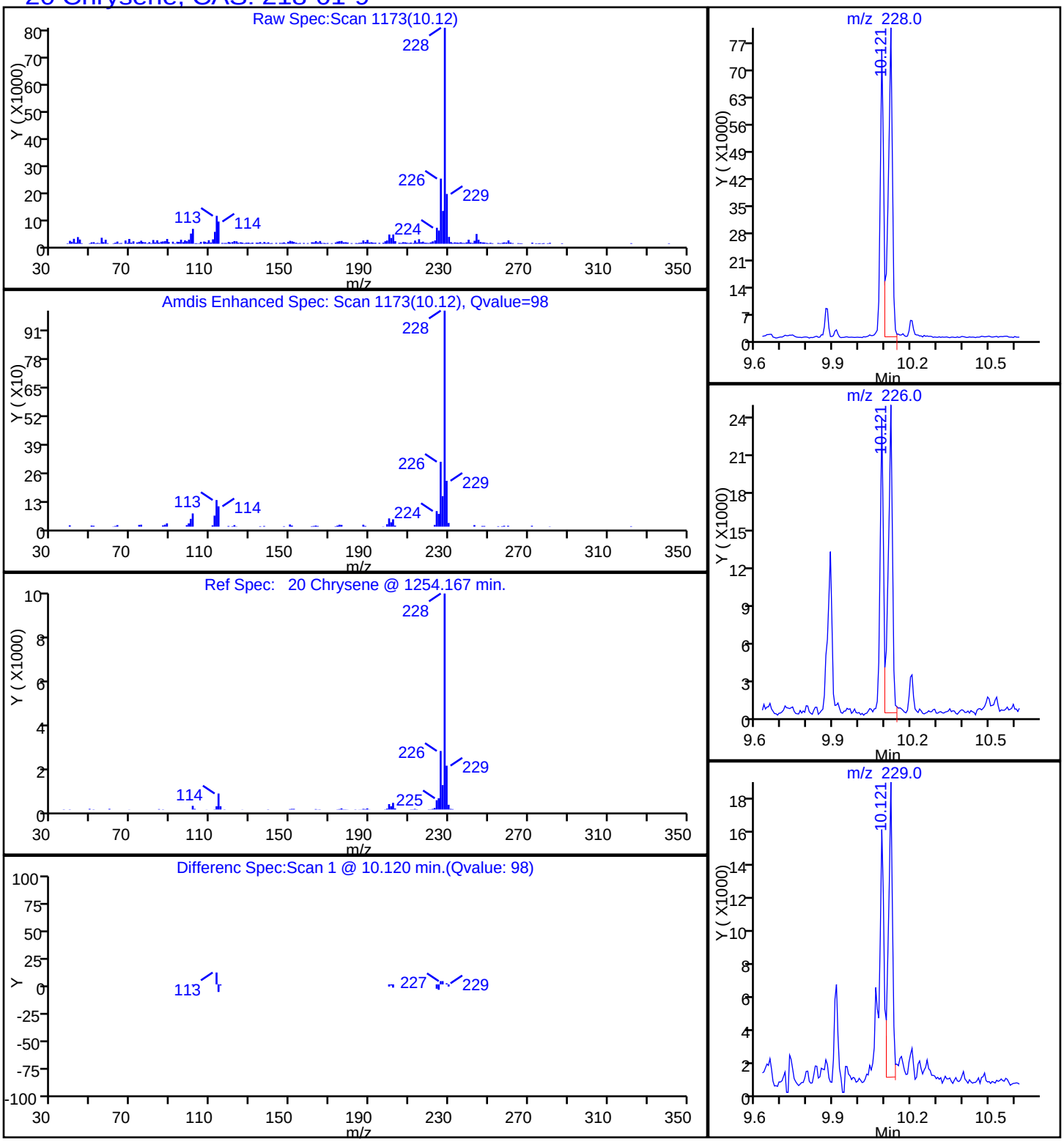
Lims ID:	680-106803-B-10-A	Lab Sample ID:	680-106803-10		
Client ID:	CV0971NN-CS6"				
Operator ID:	RM	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Chrysene, CAS: 218-01-9



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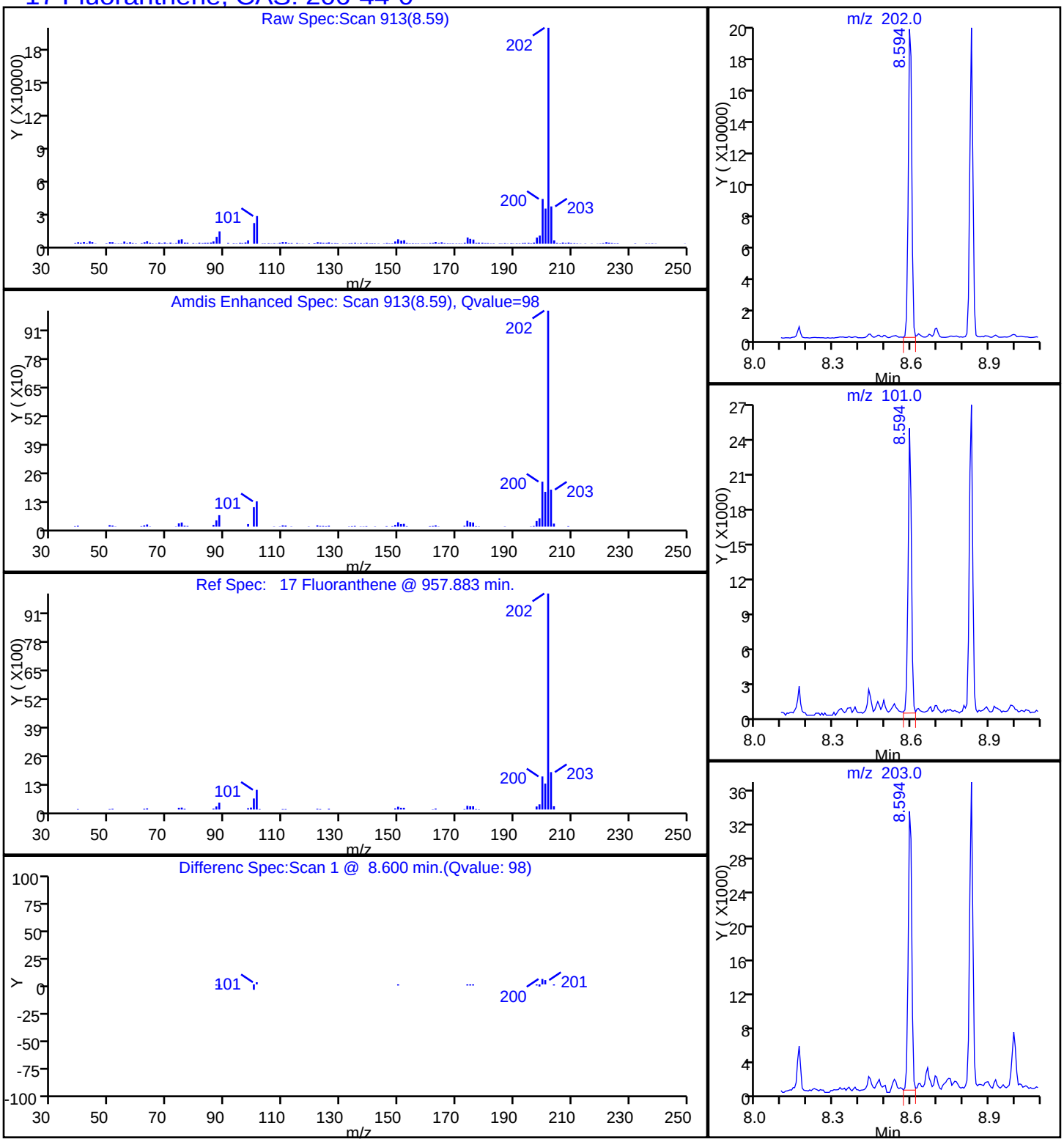
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0318.D				
Injection Date:	03-Nov-2014 16:48:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-10-A	Lab Sample ID:	680-106803-10		
Client ID:	CV0971NN-CS6"				
Operator ID:	RM	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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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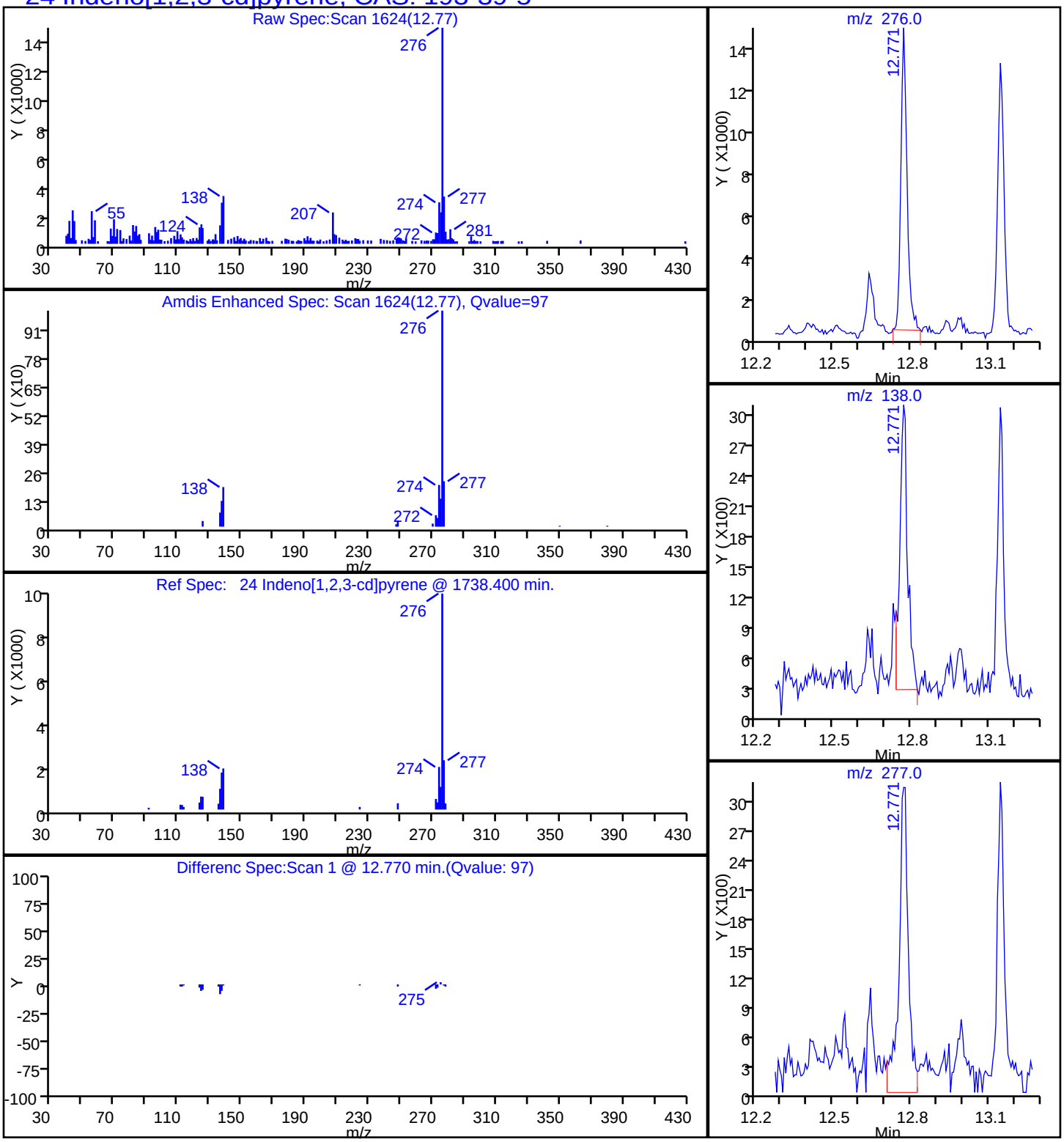
Client ID:	CV0971NN-CS6"				
Operator ID:	RM	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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



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Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0318.D				
Injection Date:	03-Nov-2014 16:48:30	Instrument ID:	CMSK		
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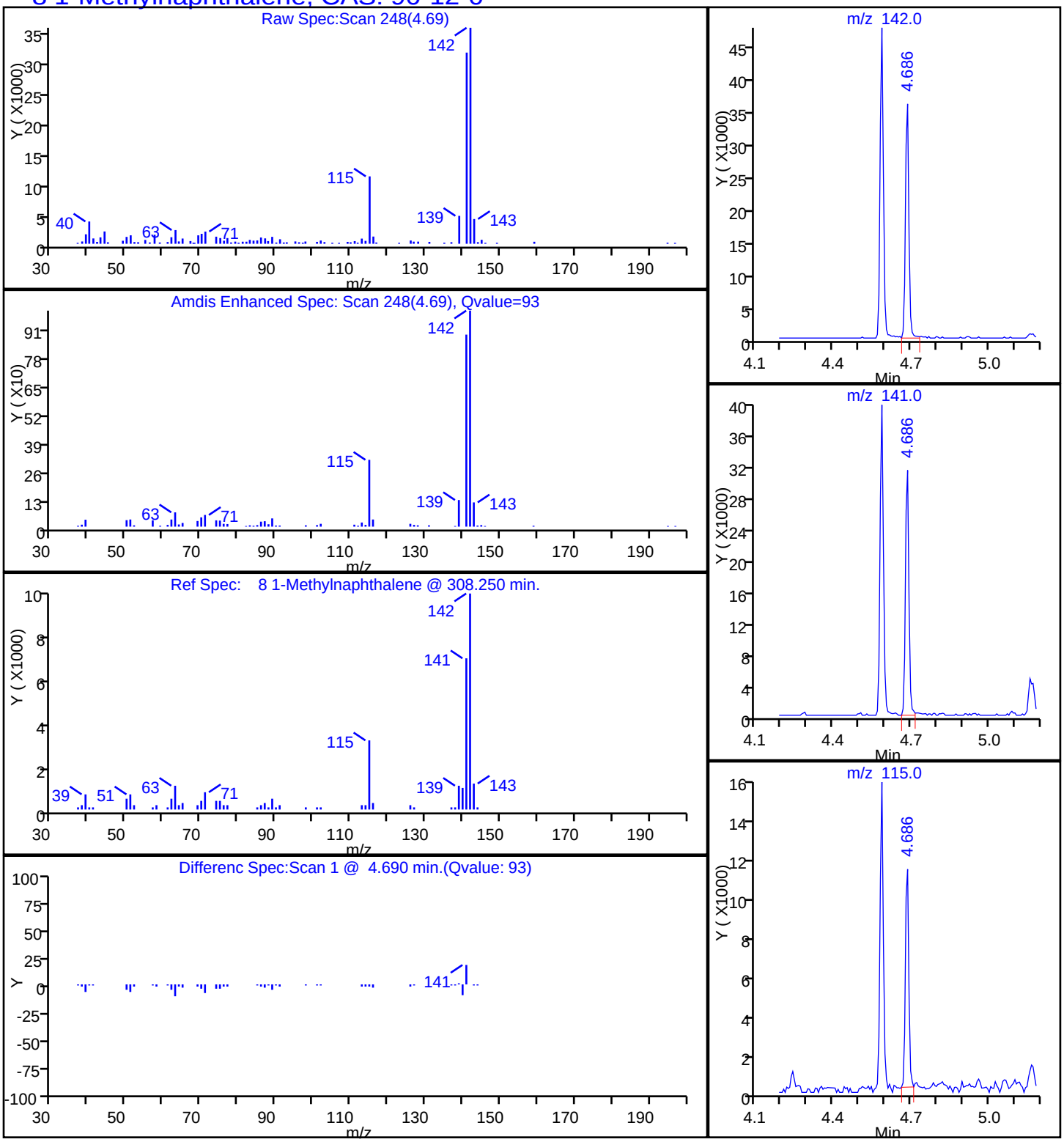
Client ID:	CV0971NN-CS6"				
Operator ID:	RM	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

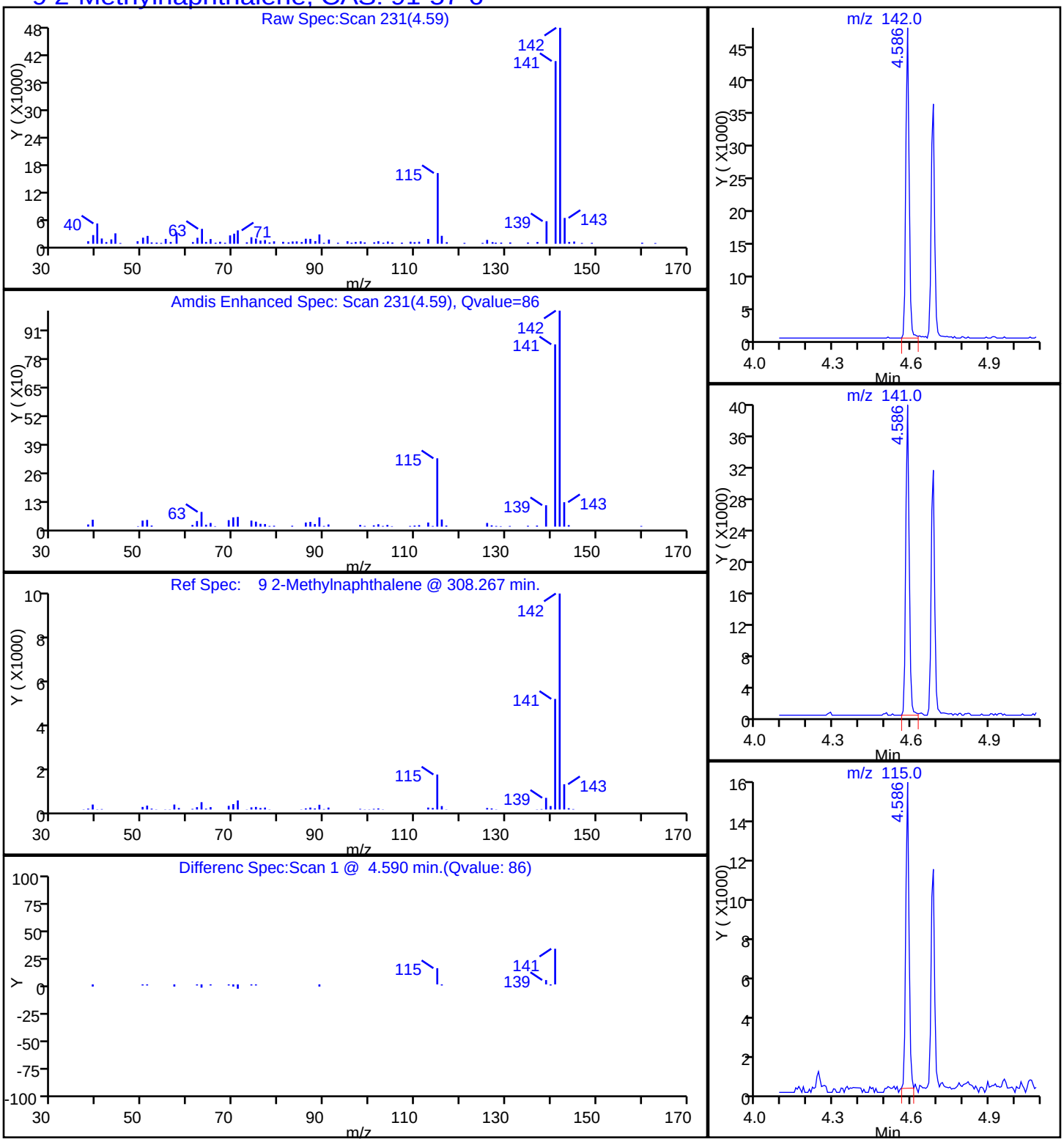


Report Date: 04-Nov-2014 09:15:20 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0318.D				
Injection Date:	03-Nov-2014 16:48:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-10-A	Lab Sample ID:	680-106803-10		
Client ID:	CV0971NN-CS6"				
Operator ID:	RM	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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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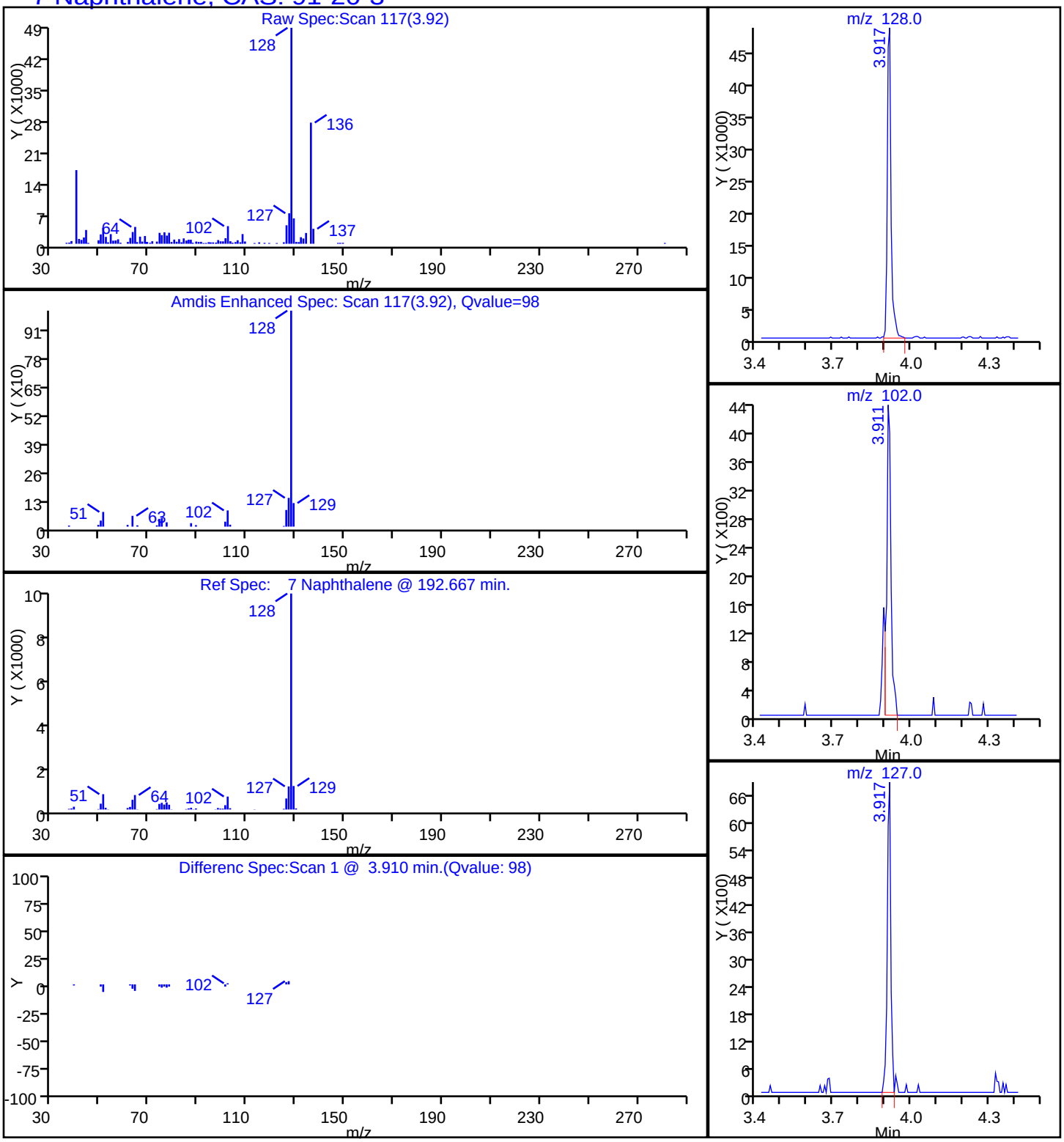
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0318.D				
Injection Date:	03-Nov-2014 16:48:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-10-A	Lab Sample ID:	680-106803-10		
Client ID:	CV0971NN-CS6"				
Operator ID:	RM	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

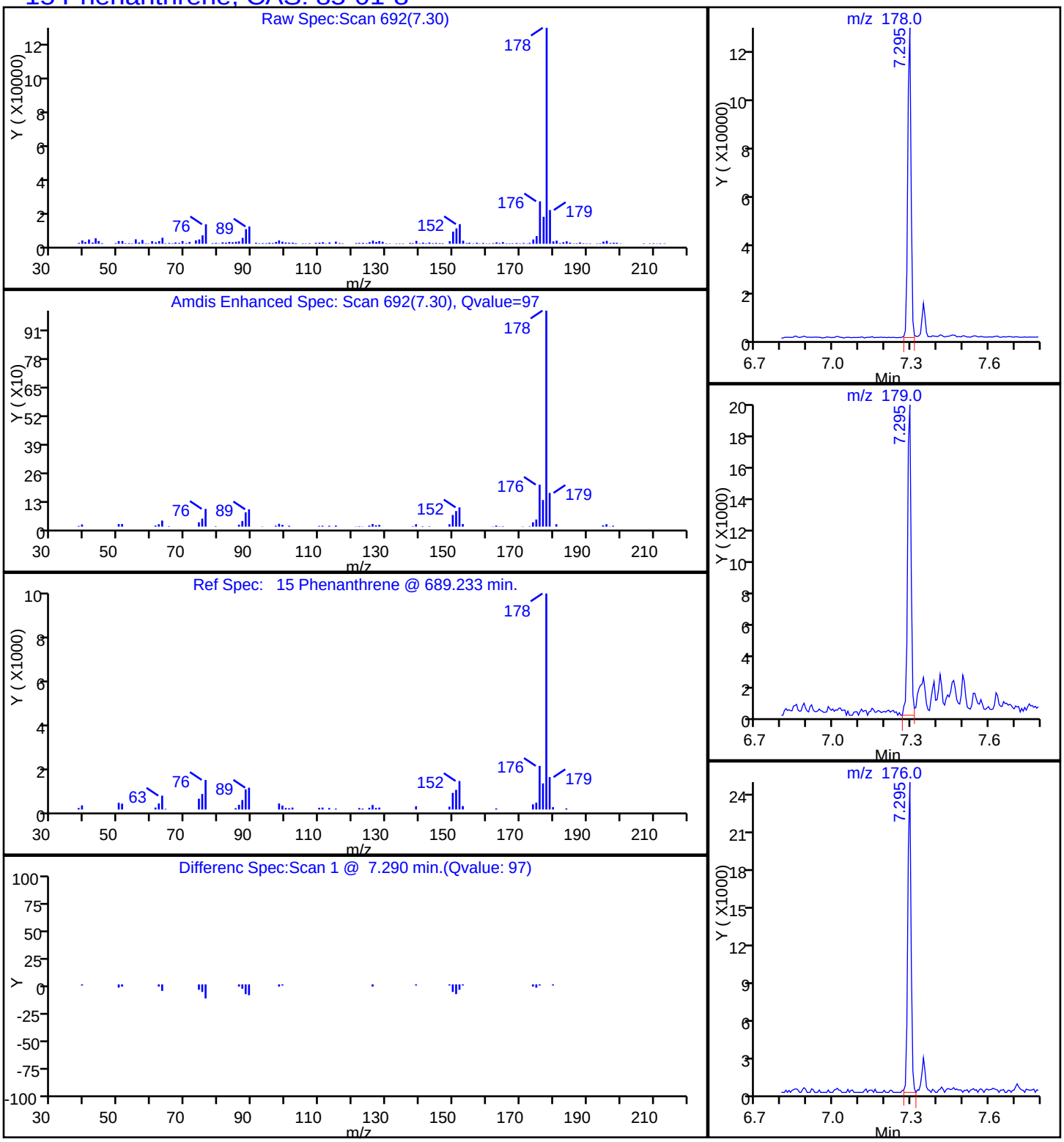


Report Date: 04-Nov-2014 09:15:20 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0318.D				
Injection Date:	03-Nov-2014 16:48:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-10-A	Lab Sample ID:	680-106803-10		
Client ID:	CV0971NN-CS6"				
Operator ID:	RM	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

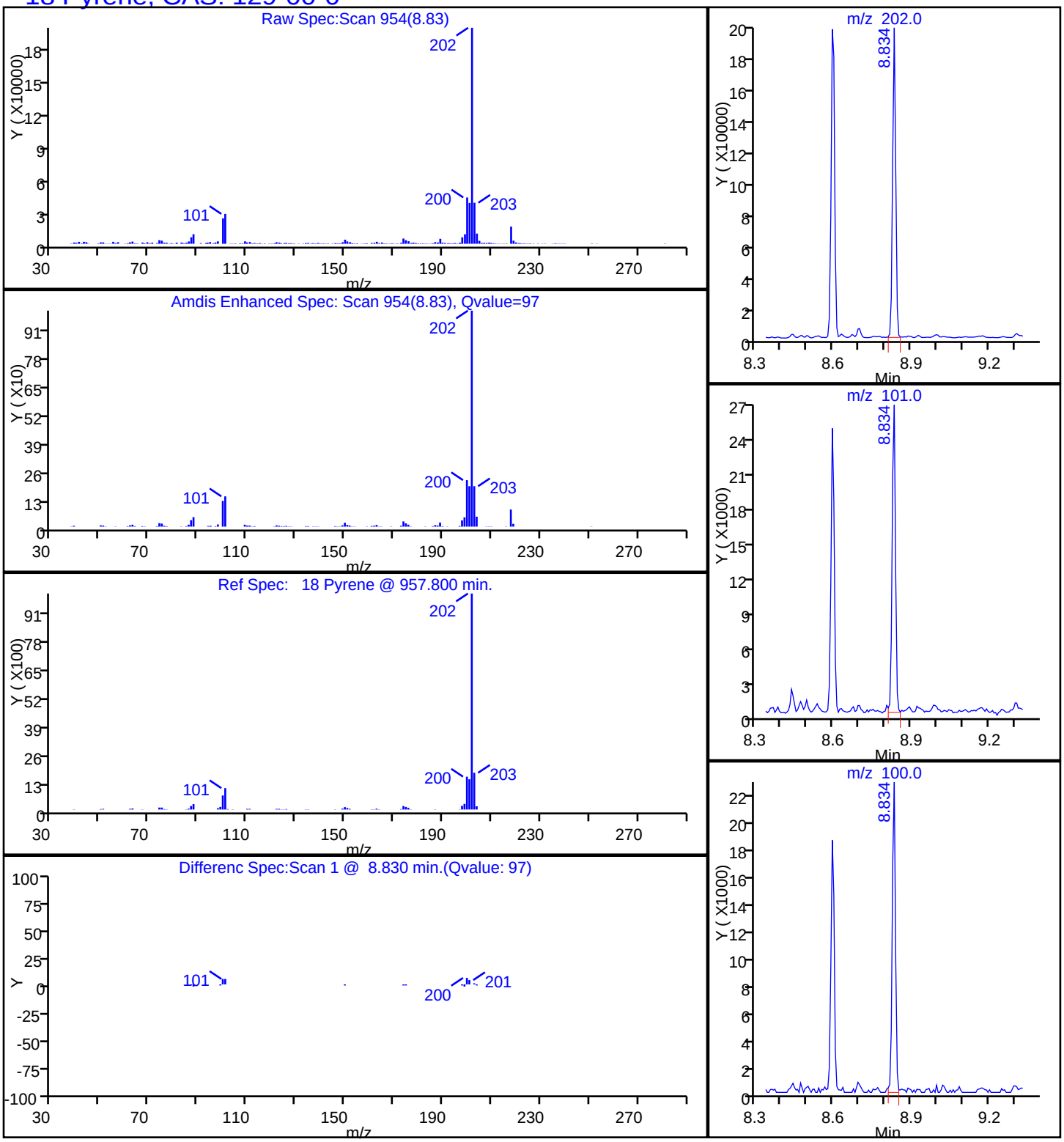


Report Date: 04-Nov-2014 09:15:20 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0318.D				
Injection Date:	03-Nov-2014 16:48:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-10-A	Lab Sample ID:	680-106803-10		
Client ID:	CV0971NN-CS6"				
Operator ID:	RM	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

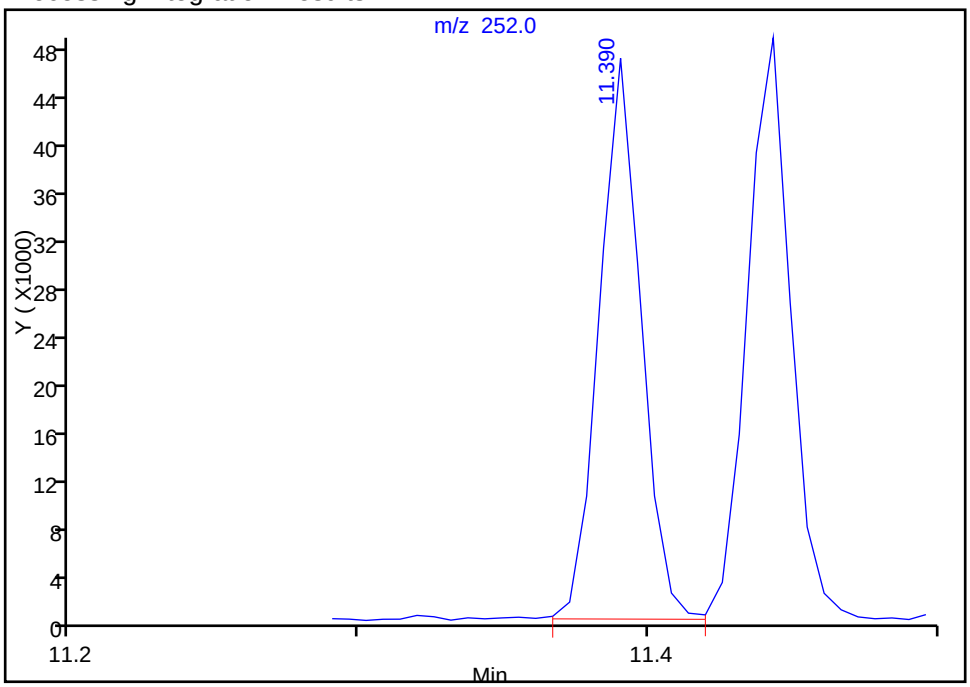
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0318.D				
Injection Date:	03-Nov-2014 16:48:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-10-A	Lab Sample ID:	680-106803-10		
Client ID:	CV0971NN-CS6"				
Operator ID:	RM	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

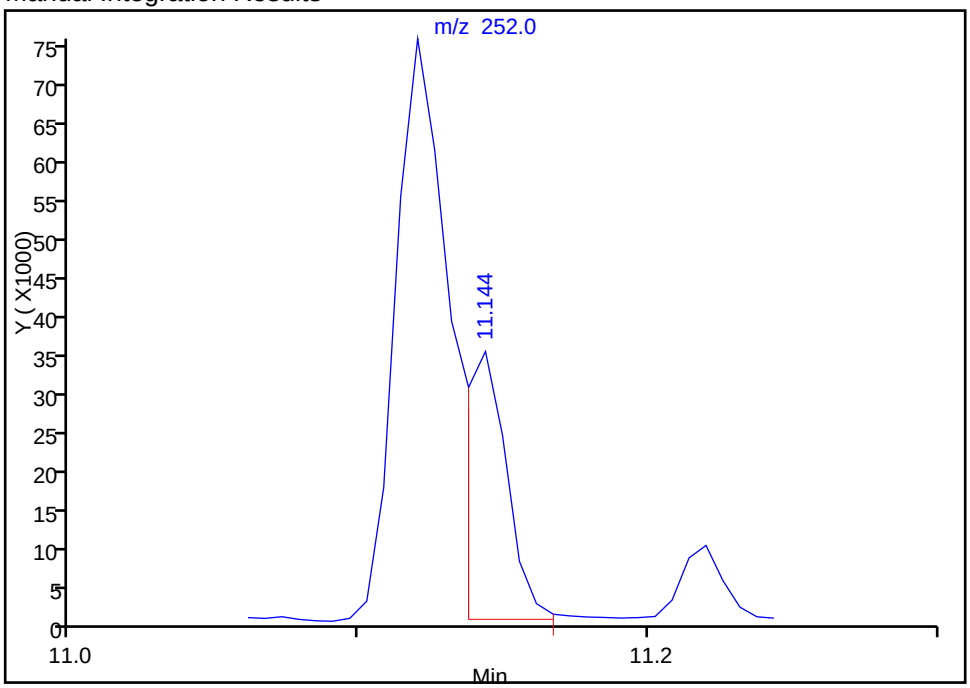
Processing Integration Results

RT: 11.39
Response: 46165
Amount: 0.459799



Manual Integration Results

RT: 11.14
Response: 34689
Amount: 0.345499



Reviewer: webbk, 04-Nov-2014 09:05:56
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971NN-CS12" | Lab Sample ID: 680-106803-11

Matrix: Solid | Lab File ID: 1KK0319.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 10:30

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.01(g) | Date Analyzed: 11/03/2014 17:11

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

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

% Moisture: 14.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	79	U	79	39
208-96-8	Acenaphthylene	79	U	79	39
120-12-7	Anthracene	79	U	79	39
56-55-3	Benzo[a]anthracene	100		79	39
50-32-8	Benzo[a]pyrene	110		79	14
205-99-2	Benzo[b]fluoranthene	180		79	39
191-24-2	Benzo[g,h,i]perylene	46	J	79	39
207-08-9	Benzo[k]fluoranthene	75	J	79	23
218-01-9	Chrysene	150		79	39
53-70-3	Dibenz(a,h)anthracene	79	U	79	39
206-44-0	Fluoranthene	170		79	39
86-73-7	Fluorene	79	U	79	39
193-39-5	Indeno[1,2,3-cd]pyrene	79	U	79	39
90-12-0	1-Methylnaphthalene	79	U	79	36
91-57-6	2-Methylnaphthalene	79	U	79	39
91-20-3	Naphthalene	79	U	79	39
85-01-8	Phenanthrene	110		79	28
129-00-0	Pyrene	160		79	39

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\20141103-14354.b\1KK0319.D				
Lims ID:	680-106803-B-11-A	Lab Sample ID:	680-106803-11		
Client ID:	CV0971NN-CS12"				
Sample Type:	Client				
Inject. Date:	03-Nov-2014 17:11:30	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	680-106803-B-11-A 1:10				
Misc. Info.:	680-0014354-019				
Operator ID:	RM	Instrument ID:	CMSK		
Method:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m				
Limit Group:	8270D_LL_PAH				
Last Update:	05-Nov-2014 14:20:00	Calib Date:	22-Oct-2014 16:17:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D				
Column 1 :	Restek RXi-5Sil MS (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK013				
First Level Reviewer: webbk		Date:	05-Nov-2014 14:19:38		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.893	3.893	0.000	99	433339	2.00	
* 2 Acenaphthene-d10	164	5.667	5.662	0.005	92	243559	2.00	
* 3 Phenanthrene-d10	188	7.271	7.266	0.005	98	350308	2.00	
* 4 Chrysene-d12	240	10.098	10.092	0.006	99	212836	2.00	
* 5 Perylene-d12	264	11.502	11.496	0.006	99	135876	2.00	
9 2-Methylnaphthalene	142	4.586	4.586	0.000	87	9630	0.0650	
8 1-Methylnaphthalene	142	4.686	4.680	0.006	93	7446	0.0531	
15 Phenanthrene	178	7.295	7.289	0.006	97	60148	0.2819	
16 Anthracene	178	7.348	7.348	0.000	87	6437	0.0321	7
17 Fluoranthene	202	8.593	8.594	-0.001	98	94666	0.4433	
18 Pyrene	202	8.834	8.829	0.005	97	77415	0.4053	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	97	32336	0.2544	
20 Chrysene	228	10.121	10.115	0.006	98	47337	0.3946	
21 Benzo[b]fluoranthene	252	11.120	11.114	0.006	98	41511	0.4724	
22 Benzo[k]fluoranthene	252	11.143	11.138	0.005	98	17325	0.1905	M
23 Benzo[a]pyrene	252	11.443	11.437	0.006	97	21171	0.2760	
24 Indeno[1,2,3-cd]pyrene	276	12.777	12.765	0.012	98	10390	0.0896	
26 Benzo[g,h,i]perylene	276	13.153	13.141	0.012	96	9165	0.1177	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

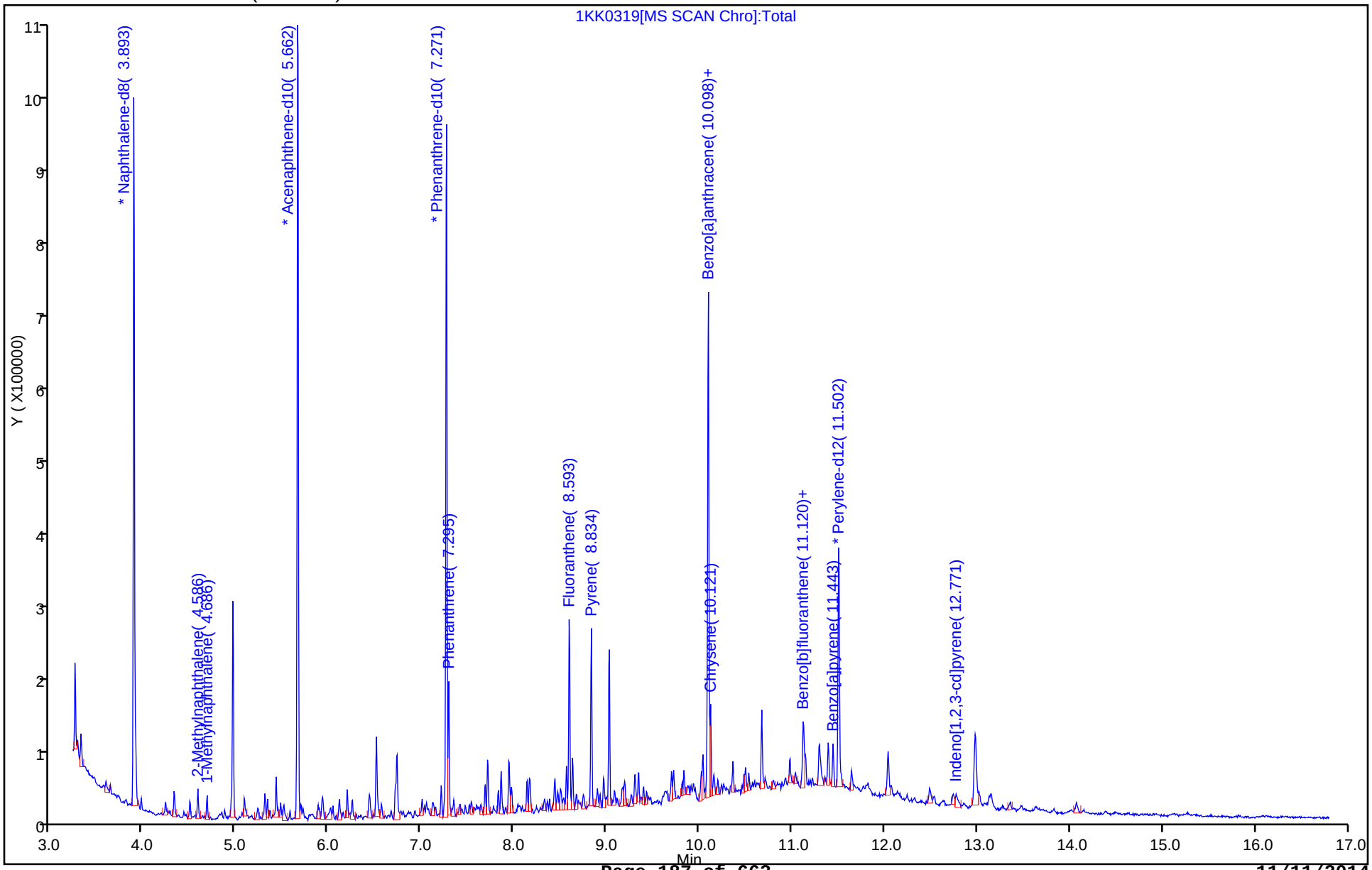
SM-LLISTD_00110 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 05-Nov-2014 14:20:12 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0319.D				
Injection Date:	03-Nov-2014 17:11:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-11-A	Lab Sample ID:	680-106803-11	Worklist Smp#:	19
Client ID:	CV0971NN-CS12"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	19
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

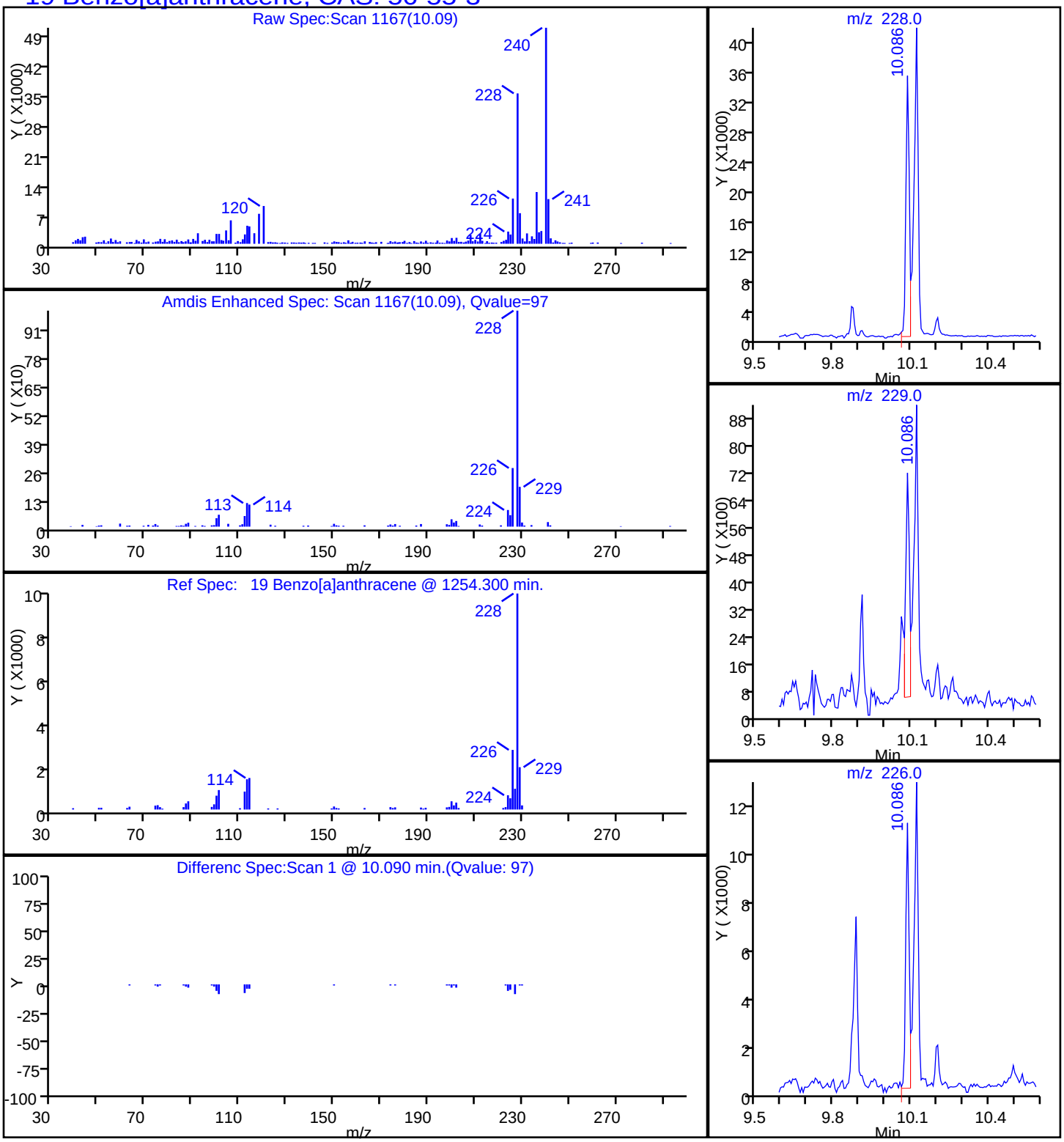


Report Date: 05-Nov-2014 14:20:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0319.D				
Injection Date:	03-Nov-2014 17:11:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-11-A	Lab Sample ID:	680-106803-11		
Client ID:	CV0971NN-CS12"				
Operator ID:	RM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

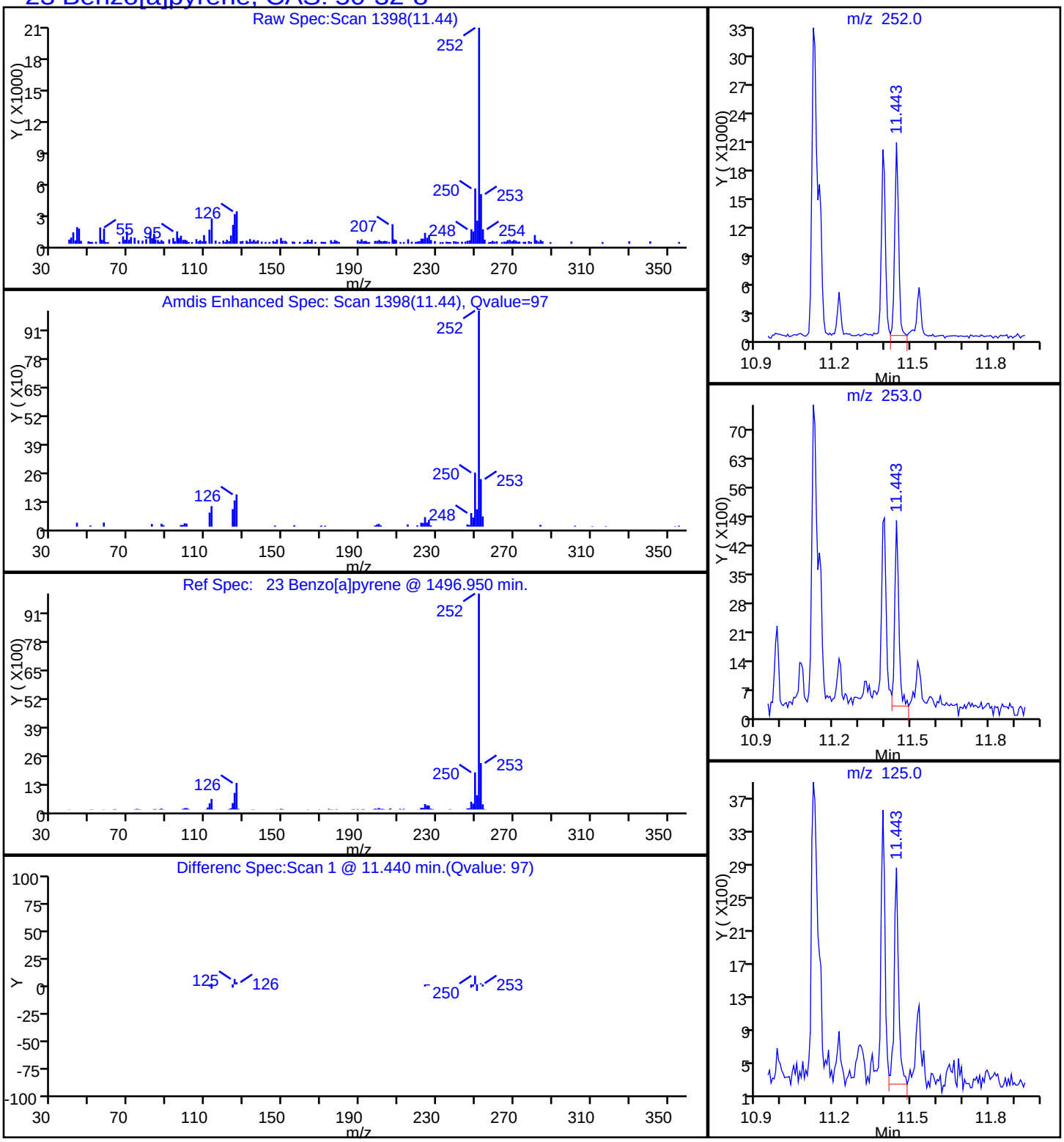


Report Date: 05-Nov-2014 14:20:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0319.D				
Injection Date:	03-Nov-2014 17:11:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-11-A	Lab Sample ID:	680-106803-11		
Client ID:	CV0971NN-CS12"				
Operator ID:	RM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

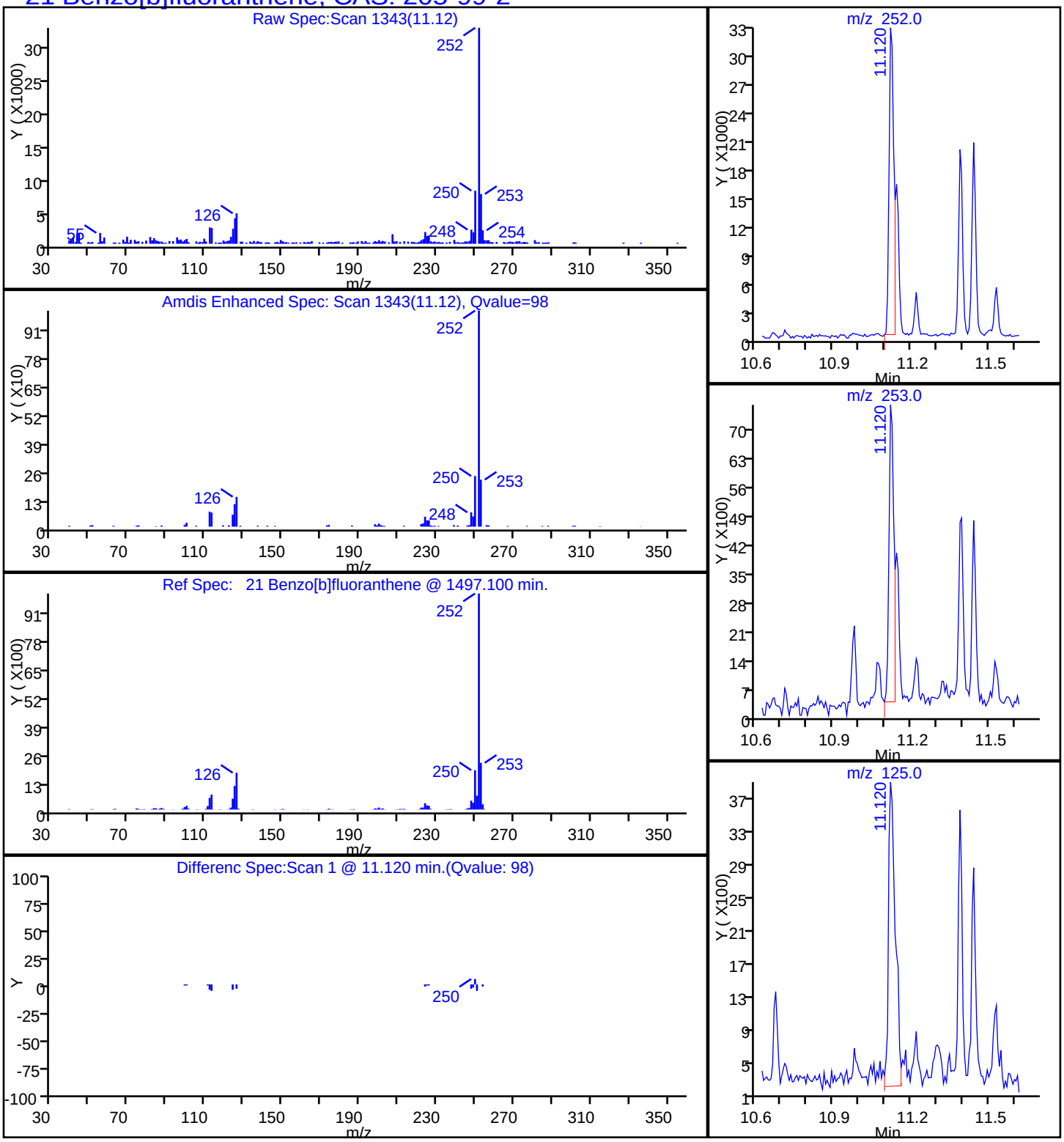


Report Date: 05-Nov-2014 14:20:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0319.D				
Injection Date:	03-Nov-2014 17:11:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-11-A	Lab Sample ID:	680-106803-11		
Client ID:	CV0971NN-CS12"				
Operator ID:	RM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

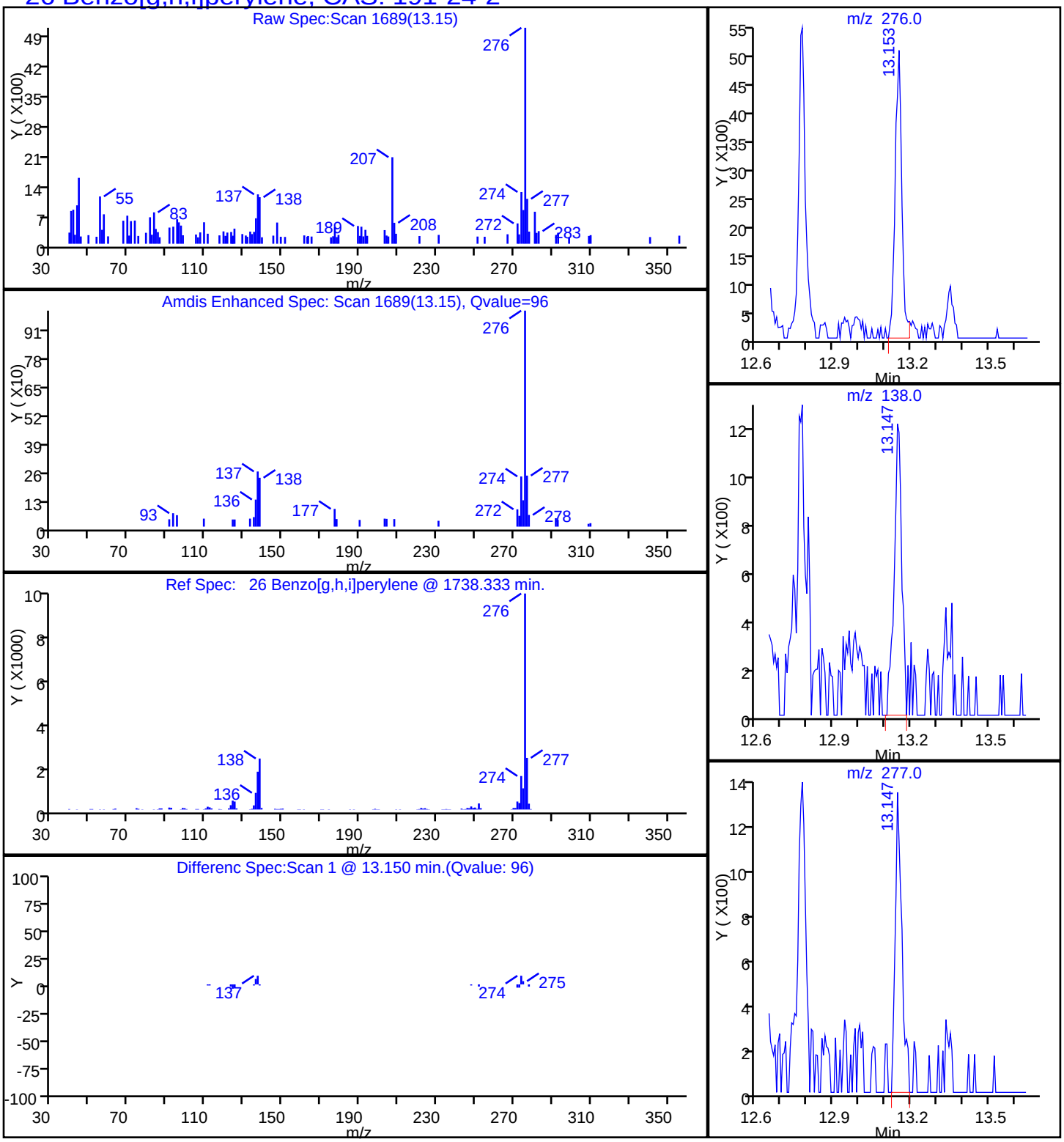


Report Date: 05-Nov-2014 14:20:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0319.D				
Injection Date:	03-Nov-2014 17:11:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-11-A	Lab Sample ID:	680-106803-11		
Client ID:	CV0971NN-CS12"				
Operator ID:	RM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

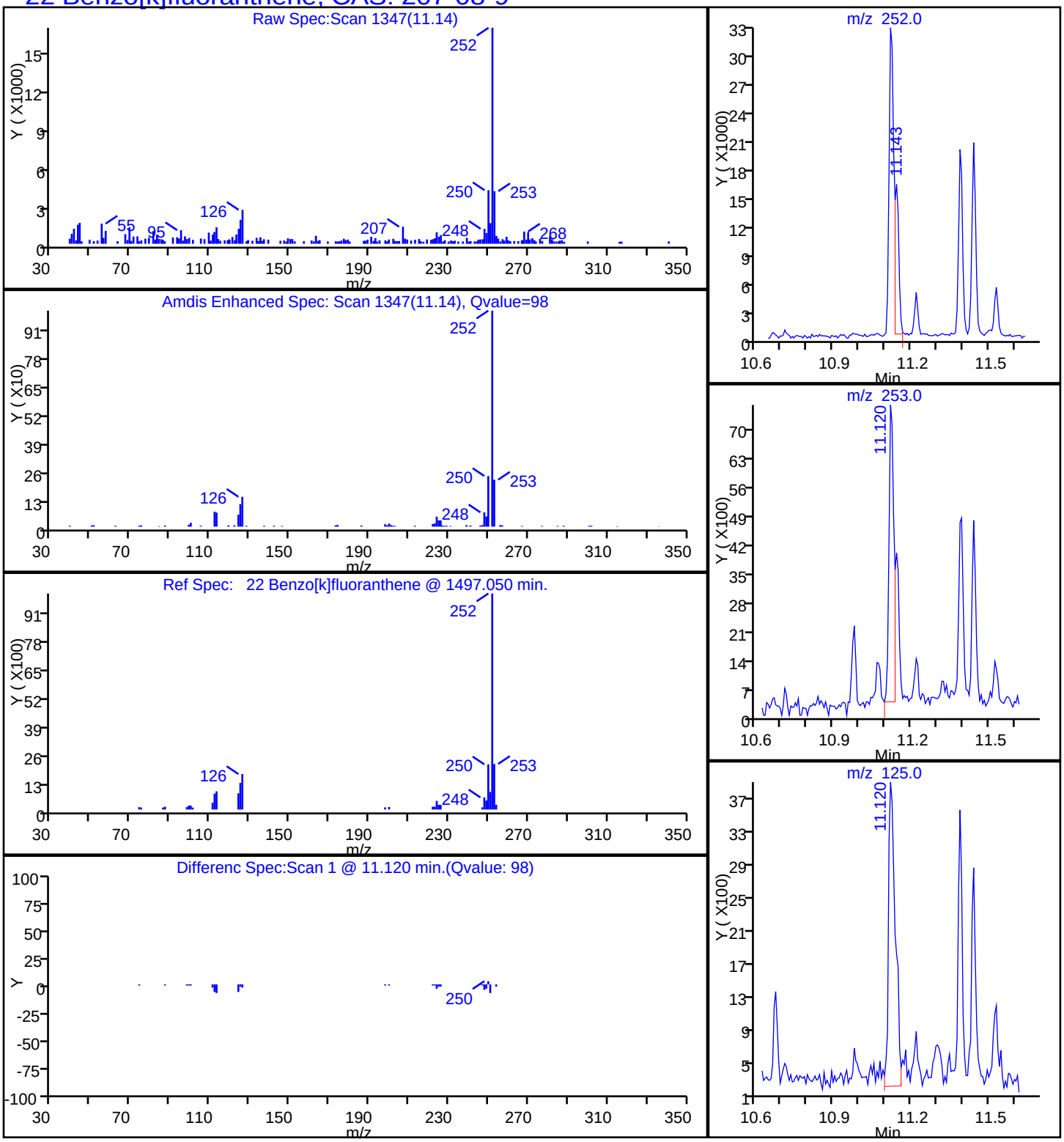


Report Date: 05-Nov-2014 14:20:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0319.D				
Injection Date:	03-Nov-2014 17:11:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-11-A	Lab Sample ID:	680-106803-11		
Client ID:	CV0971NN-CS12"				
Operator ID:	RM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

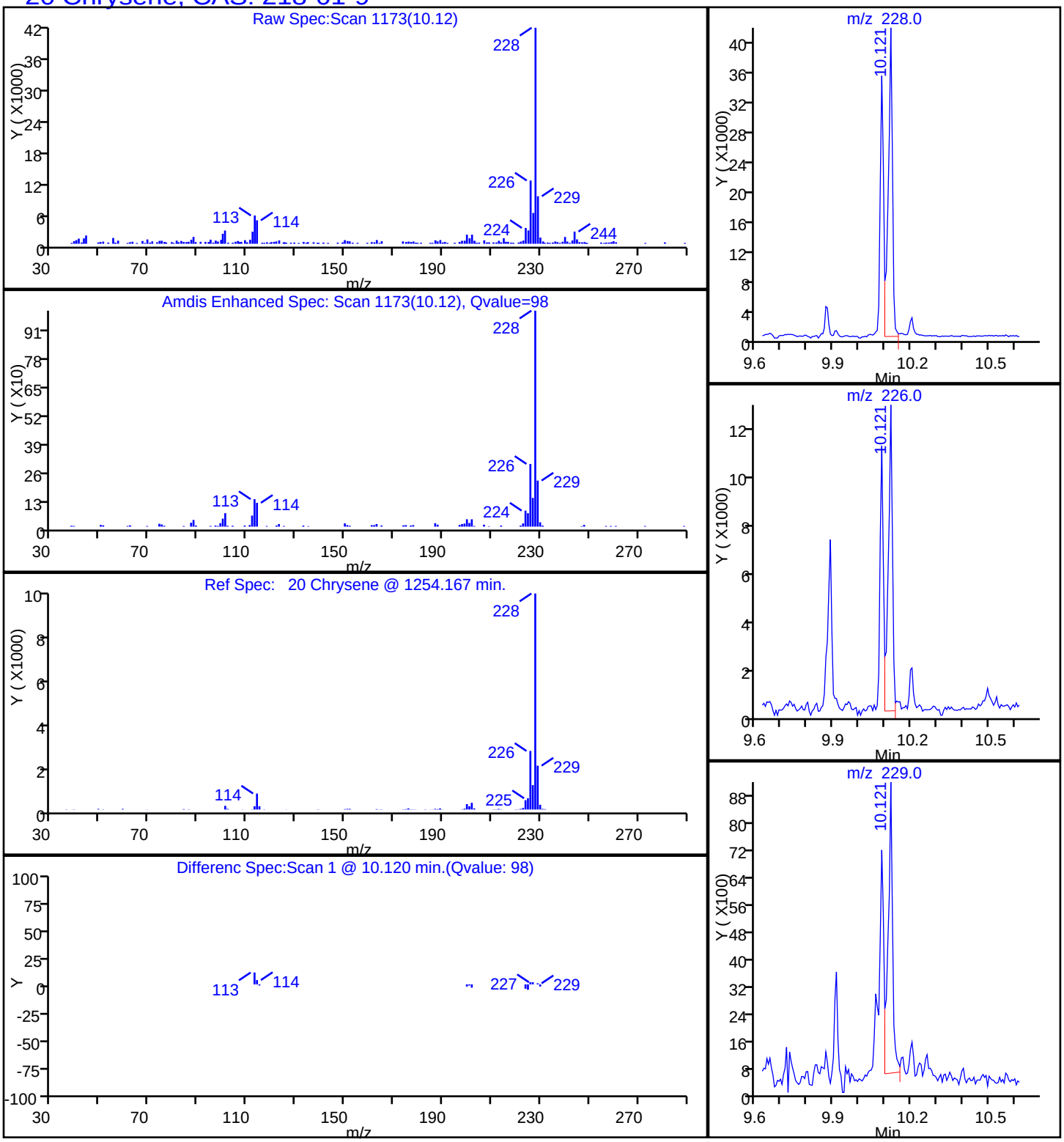


Report Date: 05-Nov-2014 14:20:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0319.D				
Injection Date:	03-Nov-2014 17:11:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-11-A	Lab Sample ID:	680-106803-11		
Client ID:	CV0971NN-CS12"				
Operator ID:	RM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

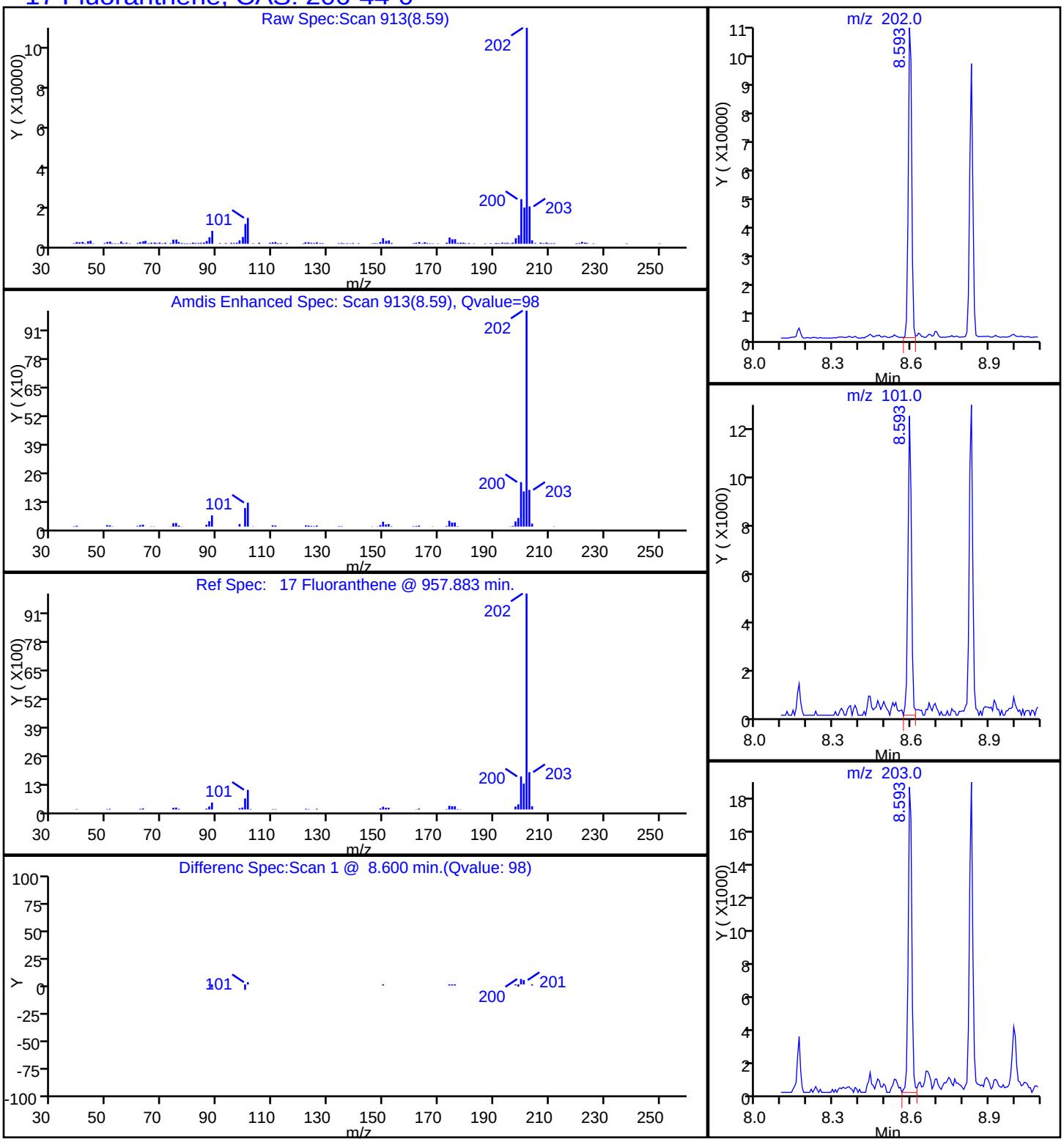


Report Date: 05-Nov-2014 14:20:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0319.D				
Injection Date:	03-Nov-2014 17:11:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-11-A	Lab Sample ID:	680-106803-11		
Client ID:	CV0971NN-CS12"				
Operator ID:	RM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

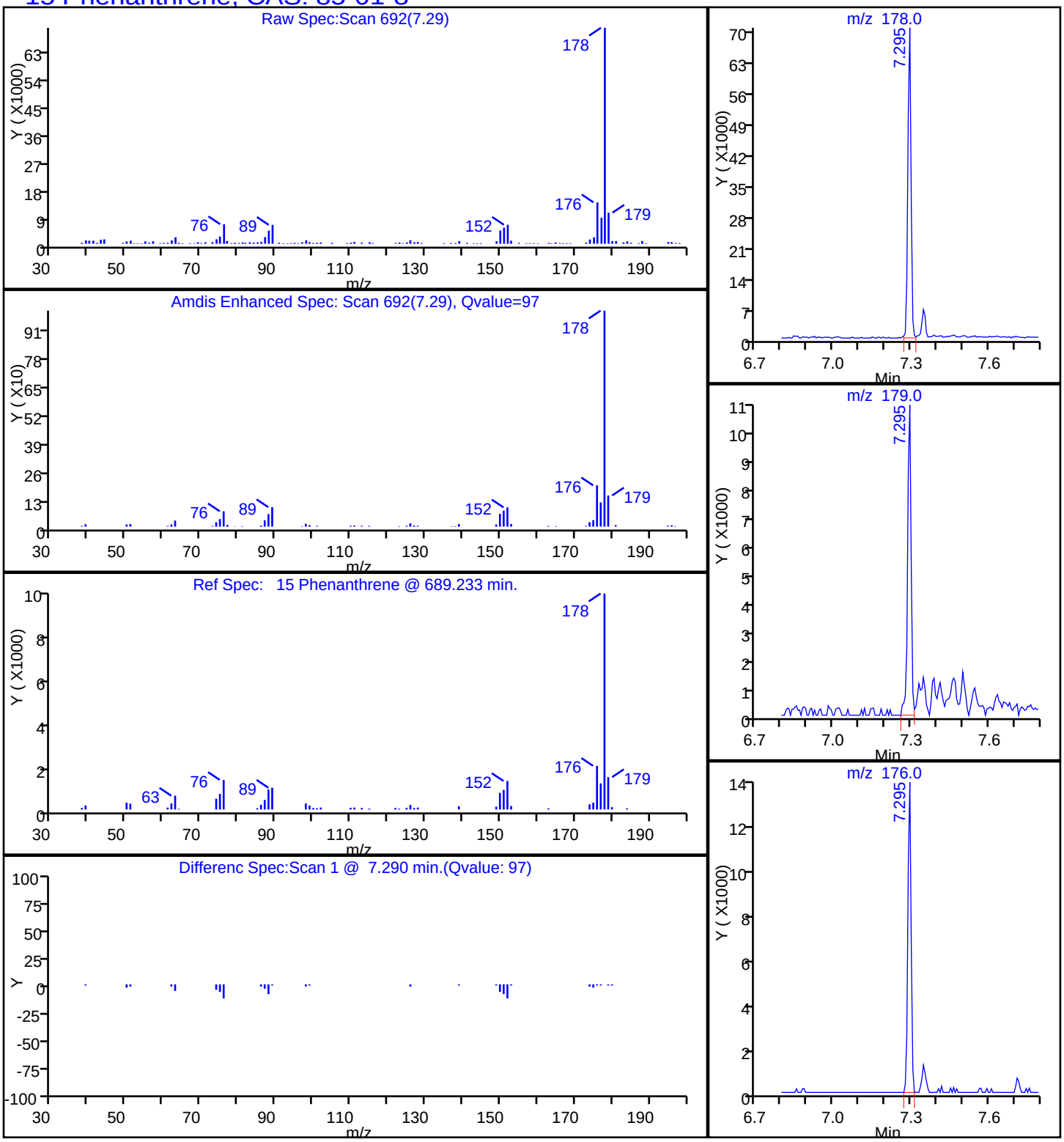


Report Date: 05-Nov-2014 14:20:12 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0319.D				
Injection Date:	03-Nov-2014 17:11:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-11-A	Lab Sample ID:	680-106803-11		
Client ID:	CV0971NN-CS12"				
Operator ID:	RM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

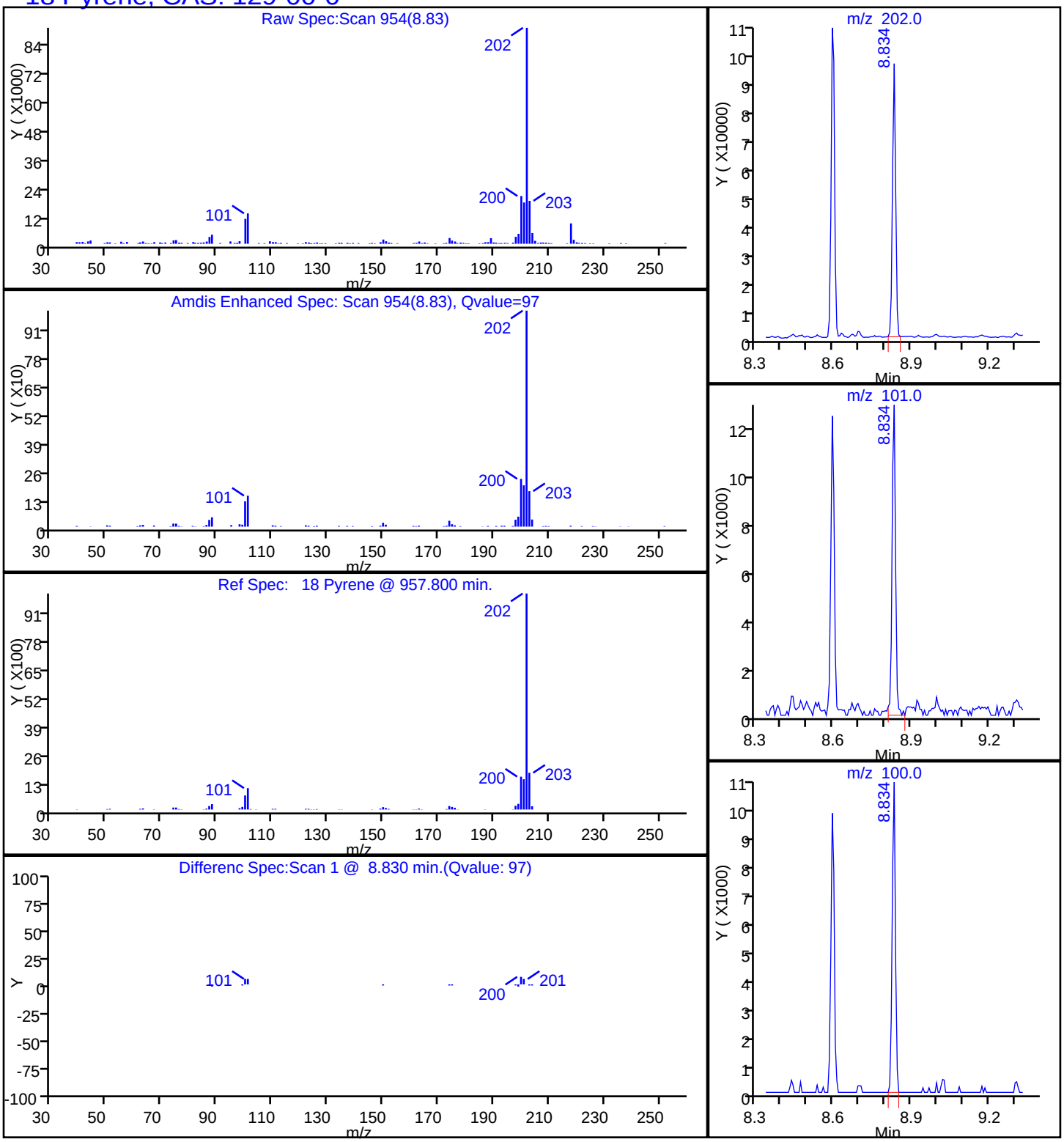


Report Date: 05-Nov-2014 14:20:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0319.D				
Injection Date:	03-Nov-2014 17:11:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-11-A	Lab Sample ID:	680-106803-11		
Client ID:	CV0971NN-CS12"				
Operator ID:	RM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

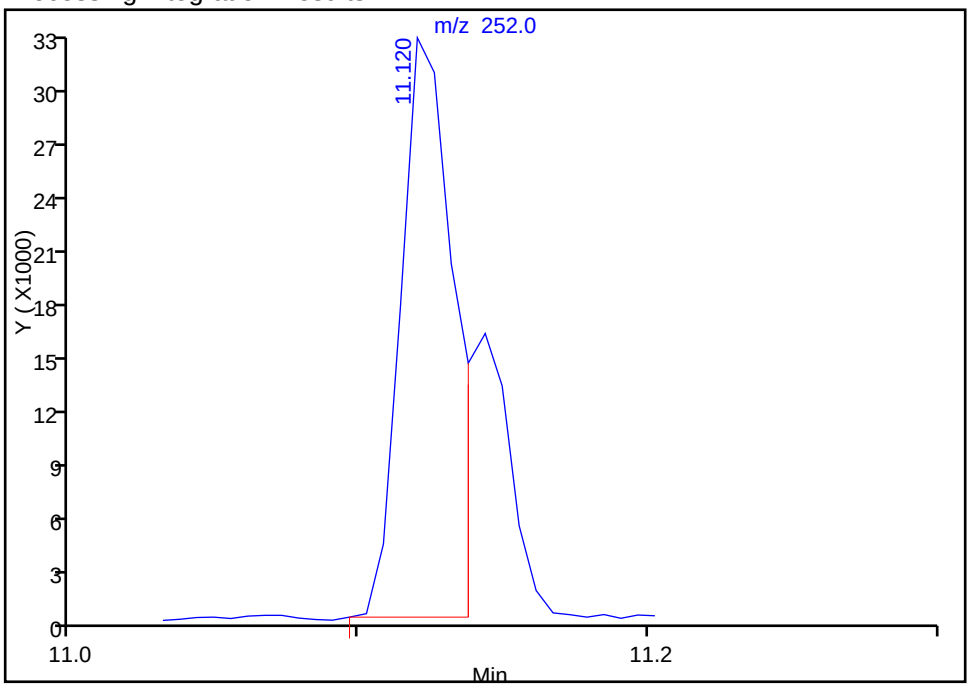
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0319.D				
Injection Date:	03-Nov-2014 17:11:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-11-A	Lab Sample ID:	680-106803-11		
Client ID:	CV0971NN-CS12"				
Operator ID:	RM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

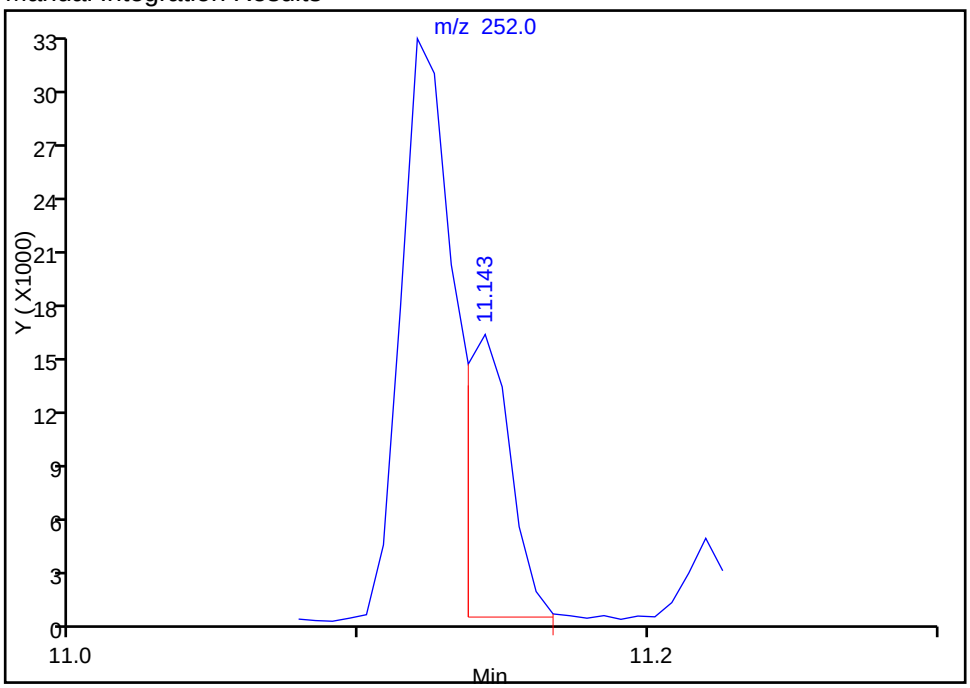
Processing Integration Results

RT: 11.12
Response: 41511
Amount: 0.456407



Manual Integration Results

RT: 11.14
Response: 17325
Amount: 0.190486



Reviewer: webbk, 04-Nov-2014 09:06:32
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971NN-CSD12" | Lab Sample ID: 680-106803-12

Matrix: Solid | Lab File ID: 1KK0320.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 10:35

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.04(g) | Date Analyzed: 11/03/2014 17:34

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

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

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

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	78	U	78	39
208-96-8	Acenaphthylene	78	U	78	39
120-12-7	Anthracene	78	U	78	39
56-55-3	Benzo[a]anthracene	89		78	39
50-32-8	Benzo[a]pyrene	100		78	14
205-99-2	Benzo[b]fluoranthene	180		78	39
191-24-2	Benzo[g,h,i]perylene	45	J	78	39
207-08-9	Benzo[k]fluoranthene	58	J	78	23
218-01-9	Chrysene	130		78	39
53-70-3	Dibenz(a,h)anthracene	78	U	78	39
206-44-0	Fluoranthene	150		78	39
86-73-7	Fluorene	78	U	78	39
193-39-5	Indeno[1,2,3-cd]pyrene	78	U	78	39
90-12-0	1-Methylnaphthalene	78	U	78	36
91-57-6	2-Methylnaphthalene	78	U	78	39
91-20-3	Naphthalene	78	U	78	39
85-01-8	Phenanthrene	83		78	28
129-00-0	Pyrene	140		78	39

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\20141103-14354.b\1KK0320.D
Lims ID: 680-106803-B-12-A Lab Sample ID: 680-106803-12
Client ID: CV0971NN-CSD12"
Sample Type: Client
Inject. Date: 03-Nov-2014 17:34:30 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 680-106803-B-12-A 1:10
Misc. Info.: 680-0014354-020
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 04-Nov-2014 09:15:09 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 04-Nov-2014 09:07:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.893	3.893	0.000	99	420357	2.00	
* 2 Acenaphthene-d10	164	5.662	5.662	0.000	91	240271	2.00	
* 3 Phenanthrene-d10	188	7.271	7.266	0.005	98	338209	2.00	
* 4 Chrysene-d12	240	10.098	10.092	0.006	99	215752	2.00	
* 5 Perylene-d12	264	11.502	11.496	0.006	99	152299	2.00	
8 1-Methylnaphthalene	142	4.686	4.680	0.006	93	6431	0.0473	
15 Phenanthrene	178	7.295	7.289	0.006	95	44048	0.2138	
16 Anthracene	178	7.348	7.348	0.000	70	5891	0.0304	7
17 Fluoranthene	202	8.593	8.594	-0.001	98	80488	0.3904	
18 Pyrene	202	8.834	8.829	0.005	97	71553	0.3695	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	97	29274	0.2272	
20 Chrysene	228	10.121	10.115	0.006	98	40909	0.3364	
21 Benzo[b]fluoranthene	252	11.120	11.114	0.006	98	45573	0.4627	
22 Benzo[k]fluoranthene	252	11.143	11.138	0.005	96	15157	0.1487	M
23 Benzo[a]pyrene	252	11.437	11.437	0.000	97	22873	0.2660	
24 Indeno[1,2,3-cd]pyrene	276	12.771	12.765	0.006	98	10870	0.0924	
26 Benzo[g,h,i]perylene	276	13.147	13.141	0.006	98	10048	0.1152	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

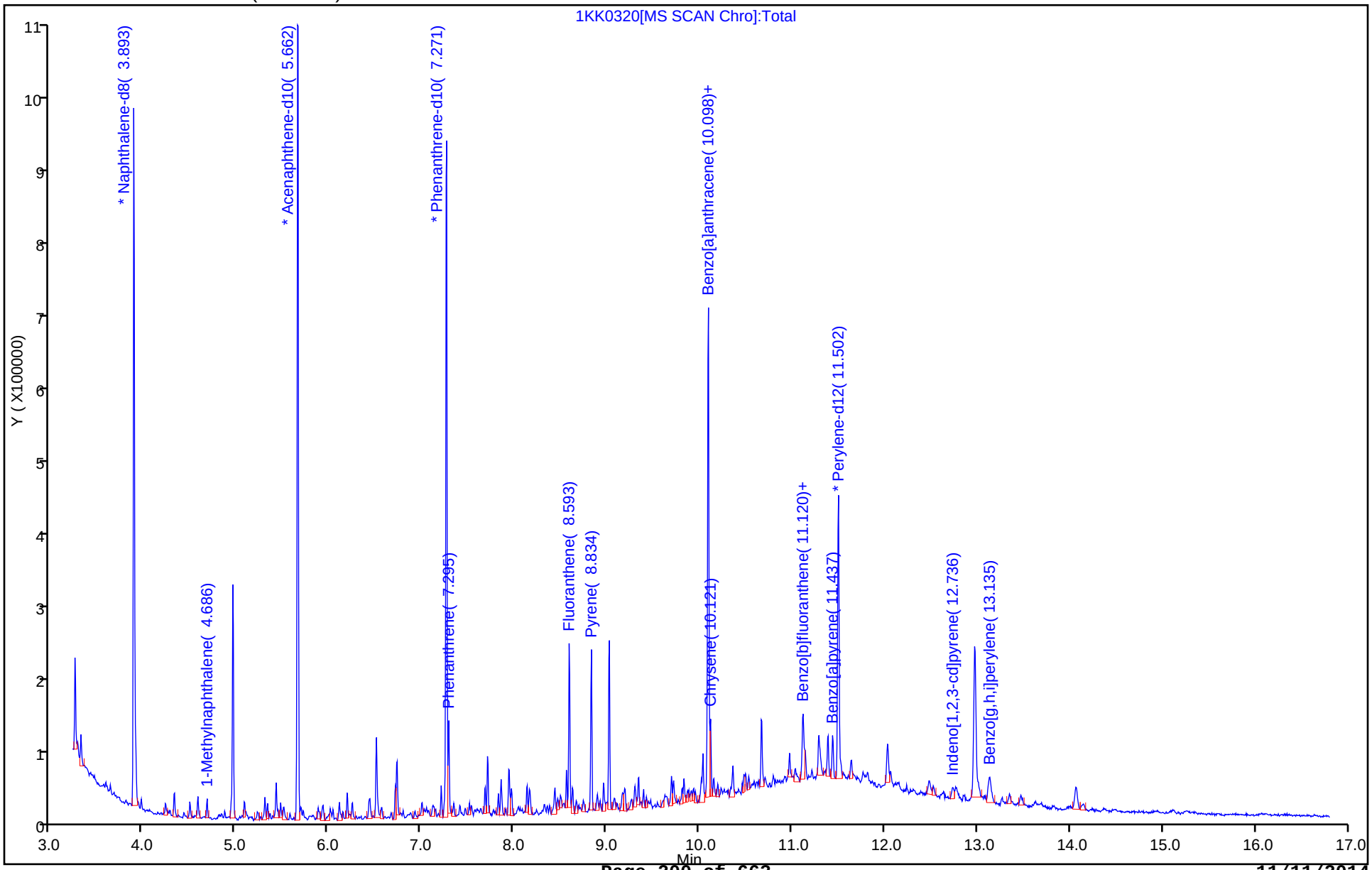
SM-LLISTD_00110 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 04-Nov-2014 09:15:18 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0320.D				
Injection Date:	03-Nov-2014 17:34:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-12-A	Lab Sample ID:	680-106803-12	Worklist Smp#:	20
Client ID:	CV0971NN-CSD12"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	20
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

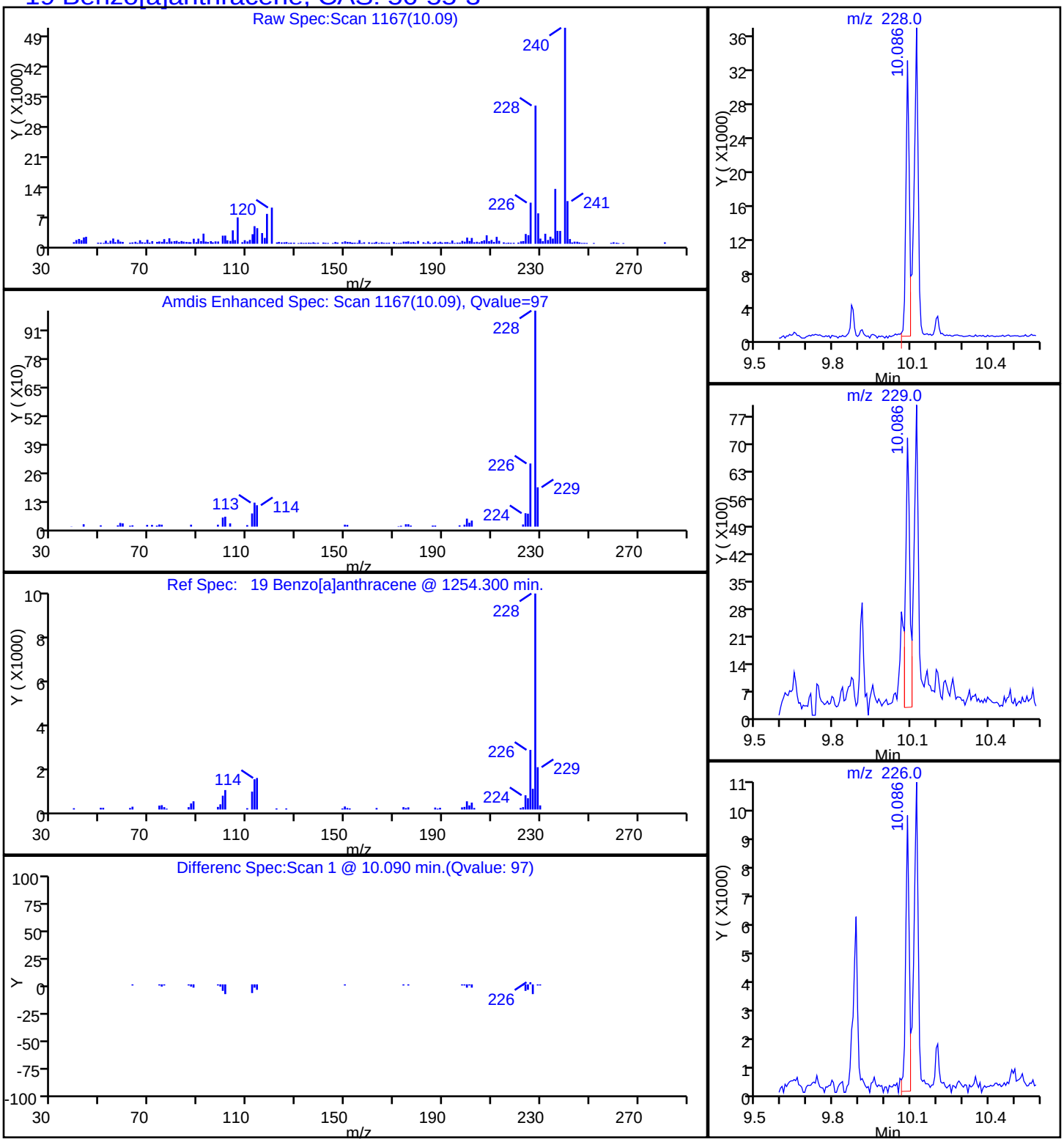


Report Date: 04-Nov-2014 09:15:18 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0320.D				
Injection Date:	03-Nov-2014 17:34:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-12-A	Lab Sample ID:	680-106803-12		
Client ID:	CV0971NN-CSD12"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

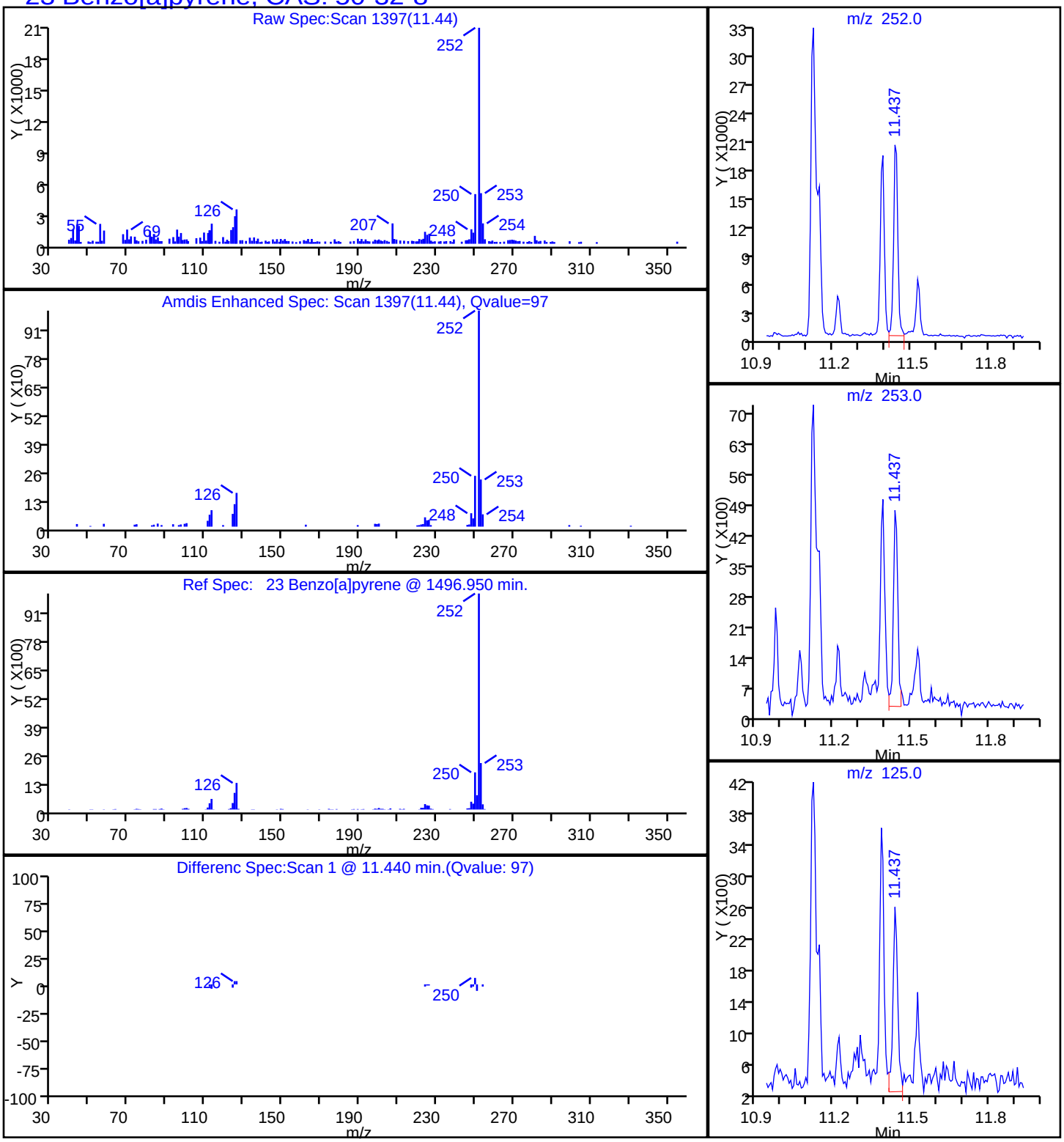


Report Date: 04-Nov-2014 09:15:18 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0320.D				
Injection Date:	03-Nov-2014 17:34:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-12-A	Lab Sample ID:	680-106803-12		
Client ID:	CV0971NN-CSD12"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

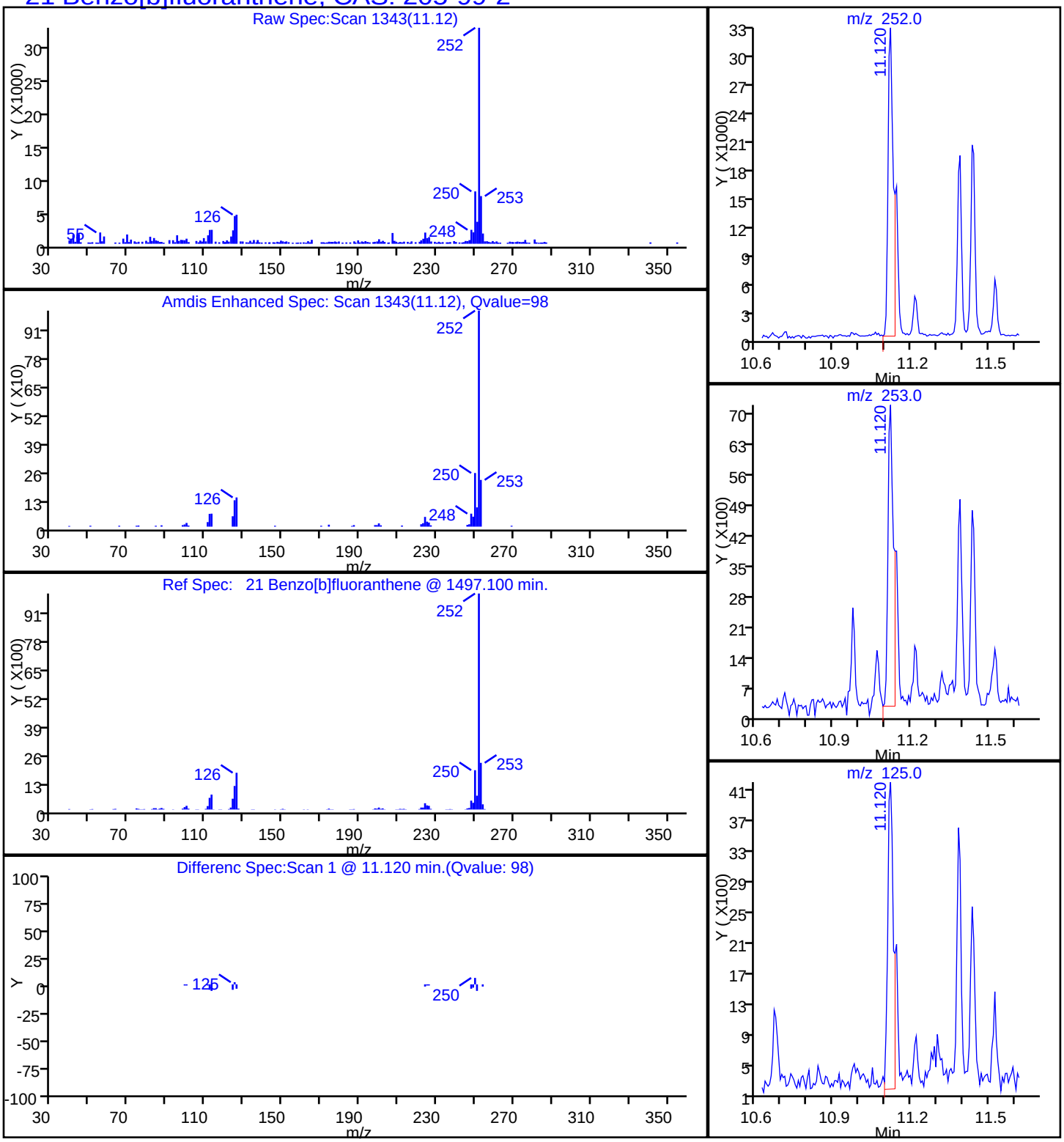


Report Date: 04-Nov-2014 09:15:18 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0320.D				
Injection Date:	03-Nov-2014 17:34:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-12-A	Lab Sample ID:	680-106803-12		
Client ID:	CV0971NN-CSD12"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

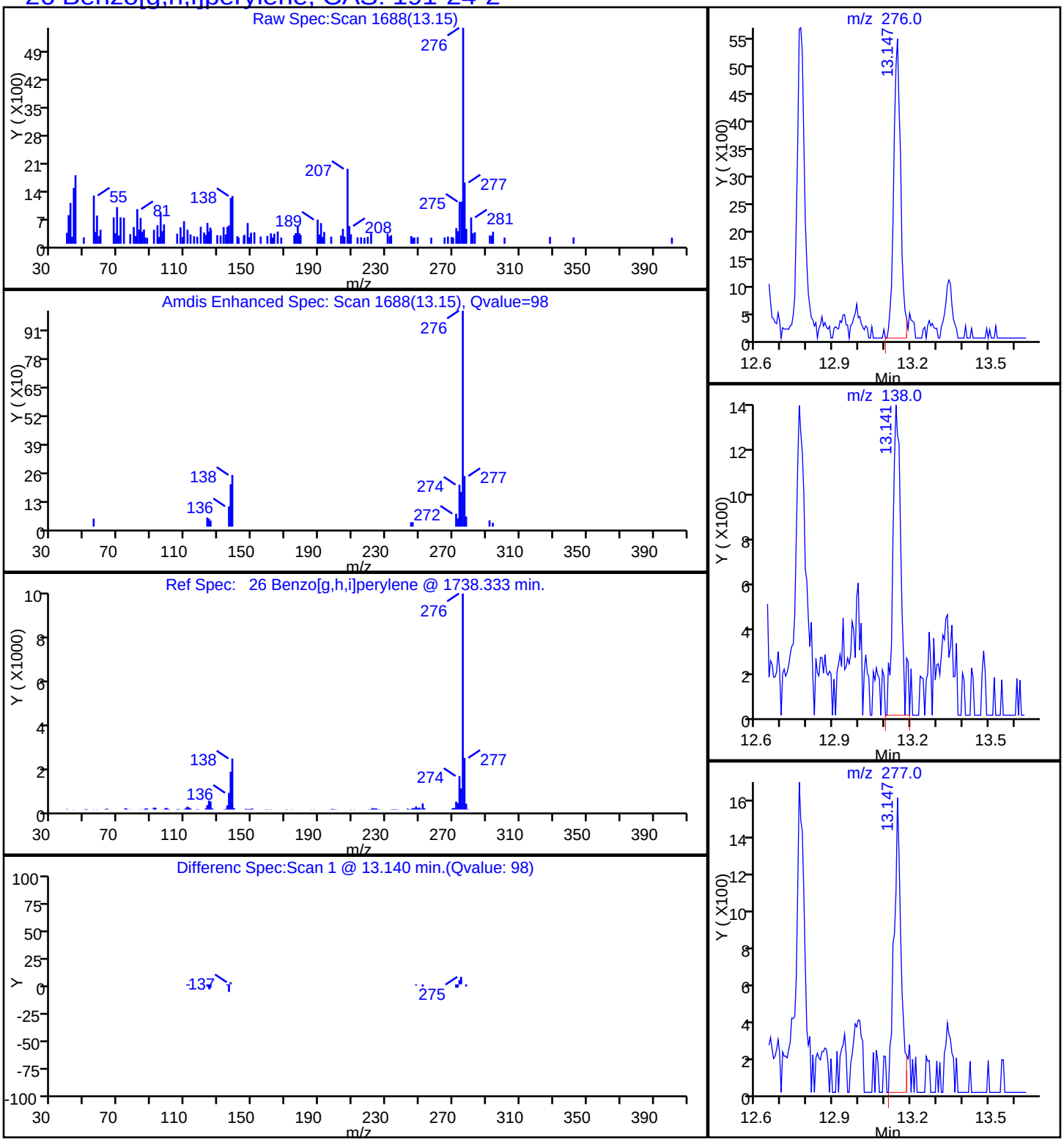


Report Date: 04-Nov-2014 09:15:18 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0320.D				
Injection Date:	03-Nov-2014 17:34:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-12-A	Lab Sample ID:	680-106803-12		
Client ID:	CV0971NN-CSD12"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

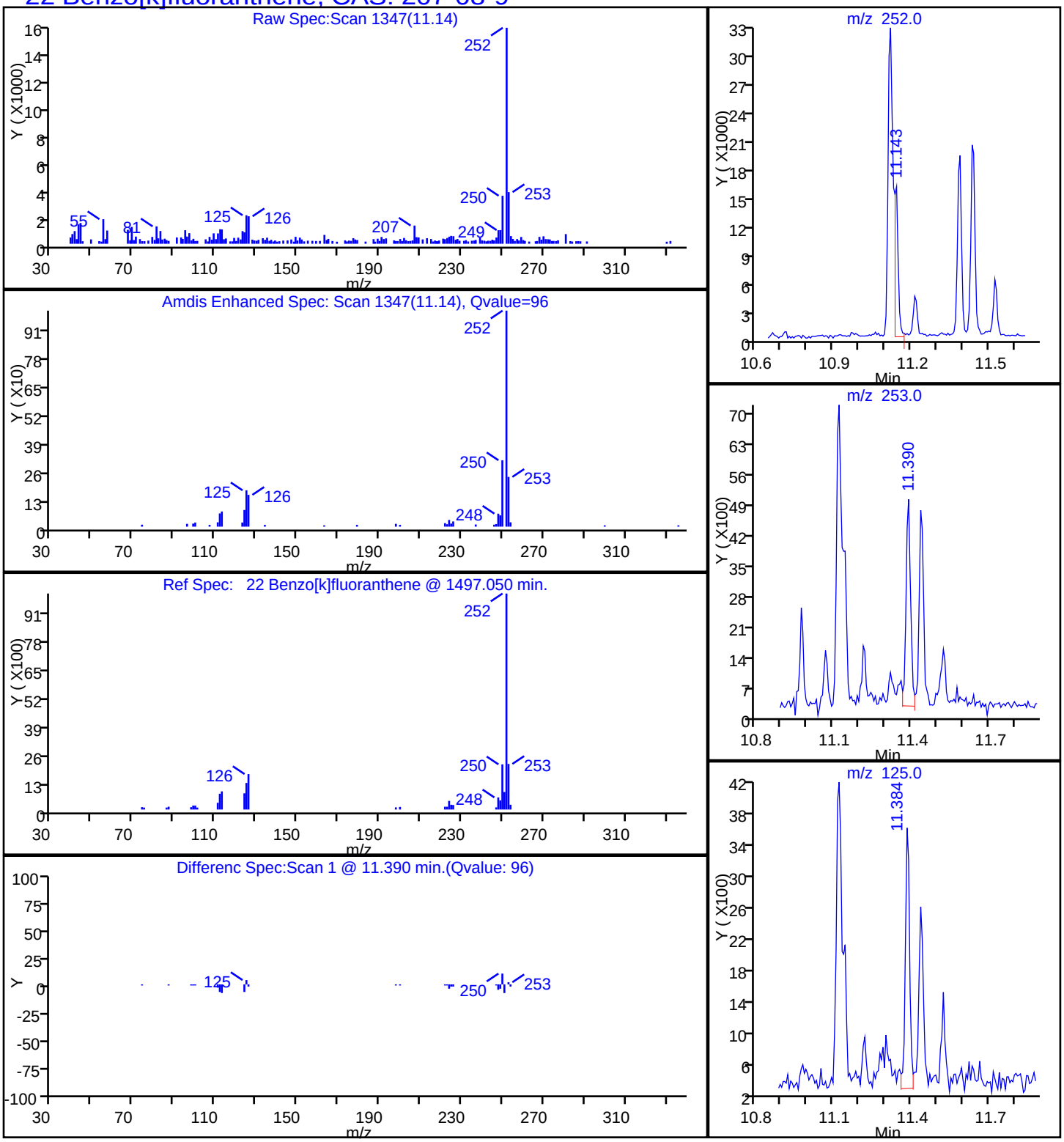


Report Date: 04-Nov-2014 09:15:18 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0320.D				
Injection Date:	03-Nov-2014 17:34:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-12-A	Lab Sample ID:	680-106803-12		
Client ID:	CV0971NN-CSD12"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

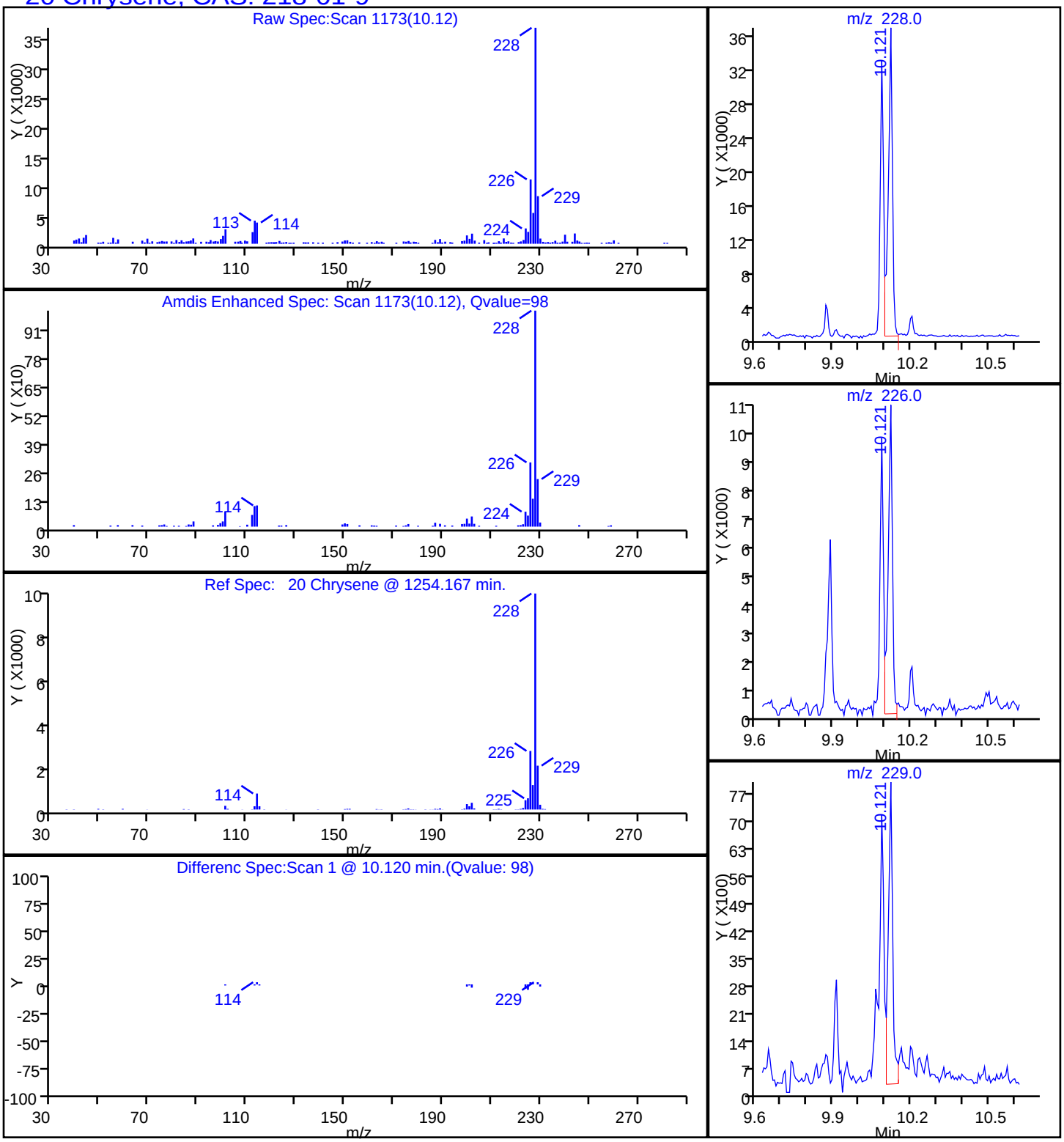


Report Date: 04-Nov-2014 09:15:18 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0320.D				
Injection Date:	03-Nov-2014 17:34:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-12-A	Lab Sample ID:	680-106803-12		
Client ID:	CV0971NN-CSD12"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

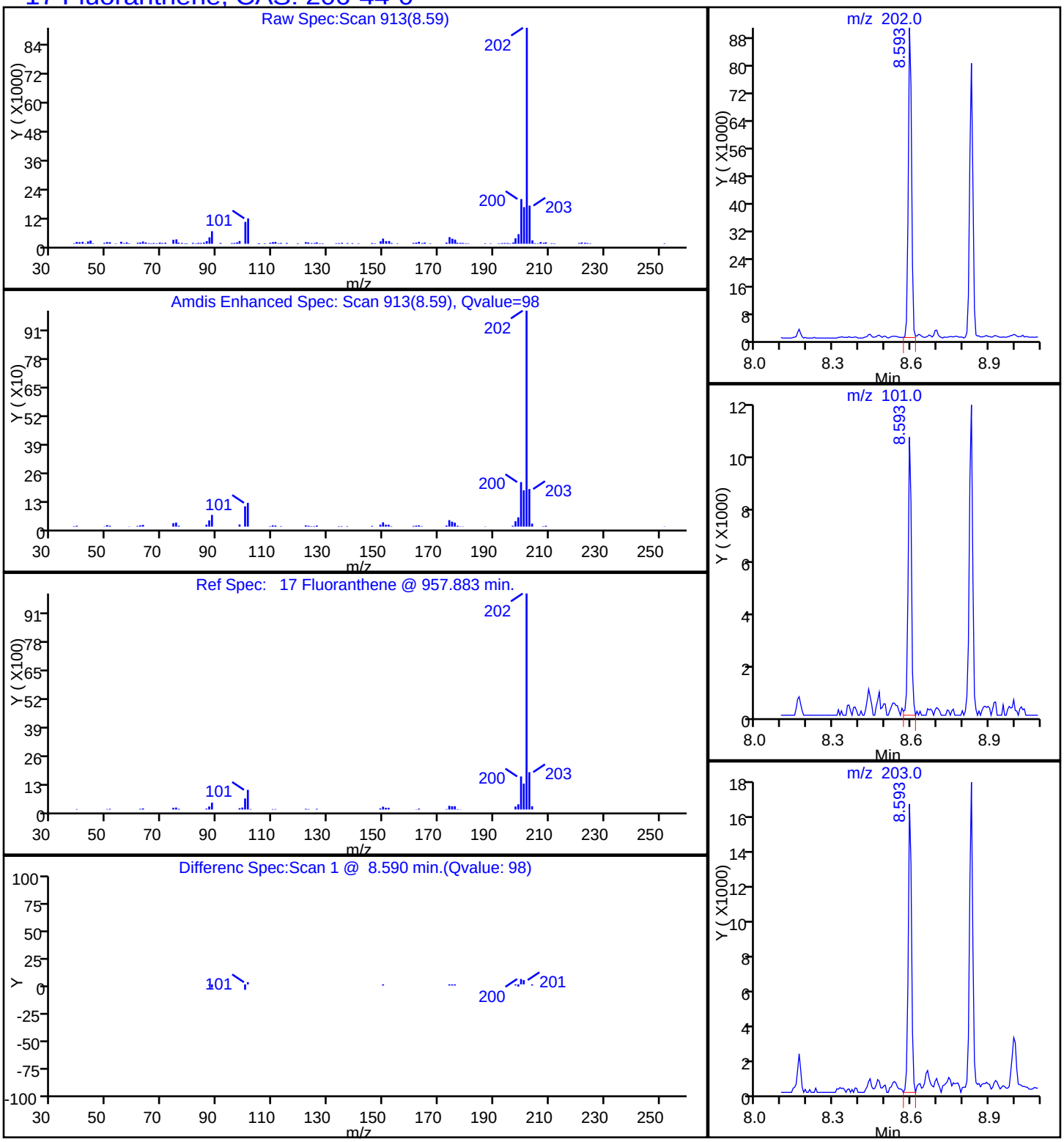


Report Date: 04-Nov-2014 09:15:18 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0320.D				
Injection Date:	03-Nov-2014 17:34:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-12-A	Lab Sample ID:	680-106803-12		
Client ID:	CV0971NN-CSD12"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

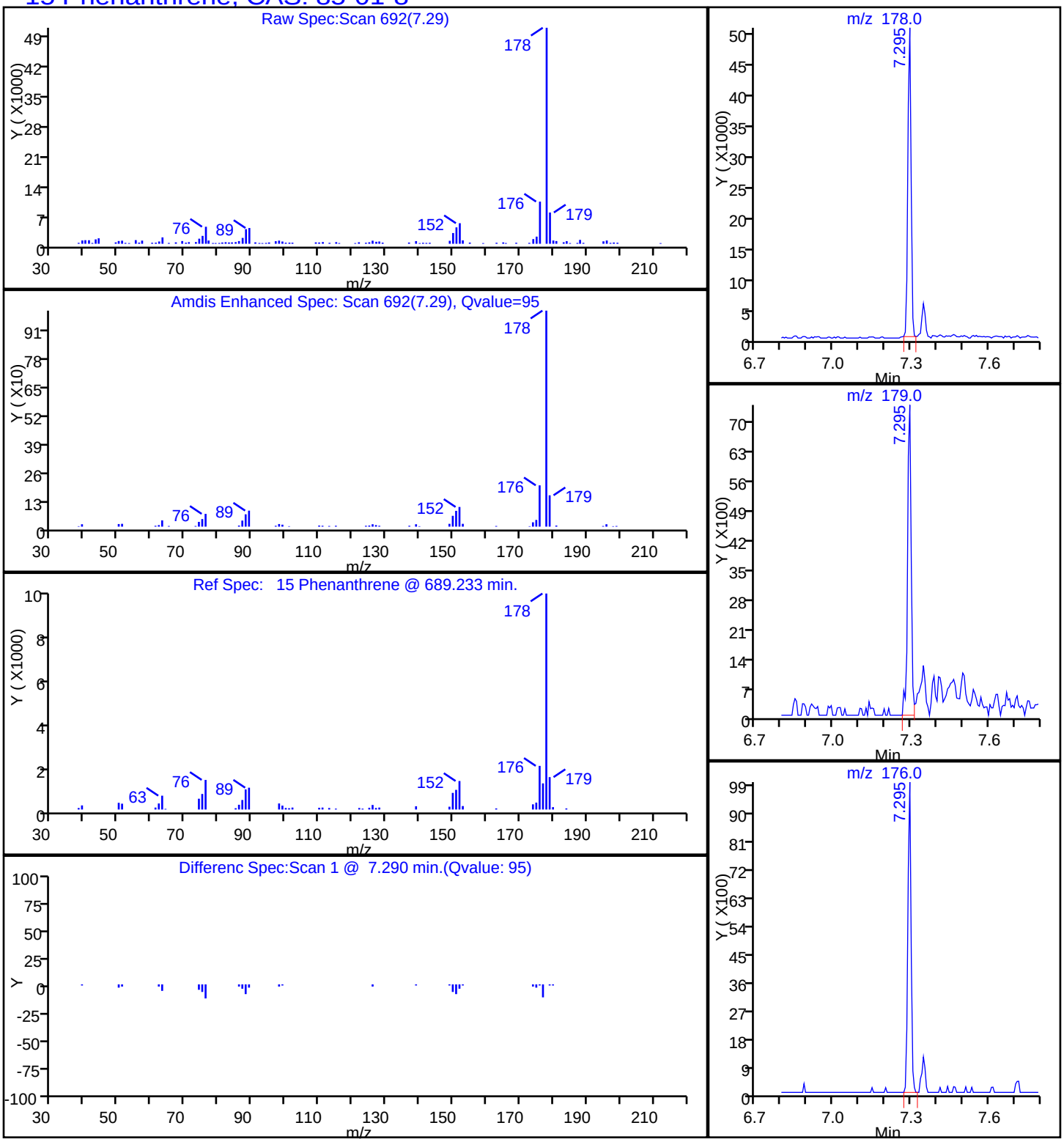


Report Date: 04-Nov-2014 09:15:18 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0320.D				
Injection Date:	03-Nov-2014 17:34:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-12-A	Lab Sample ID:	680-106803-12		
Client ID:	CV0971NN-CSD12"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

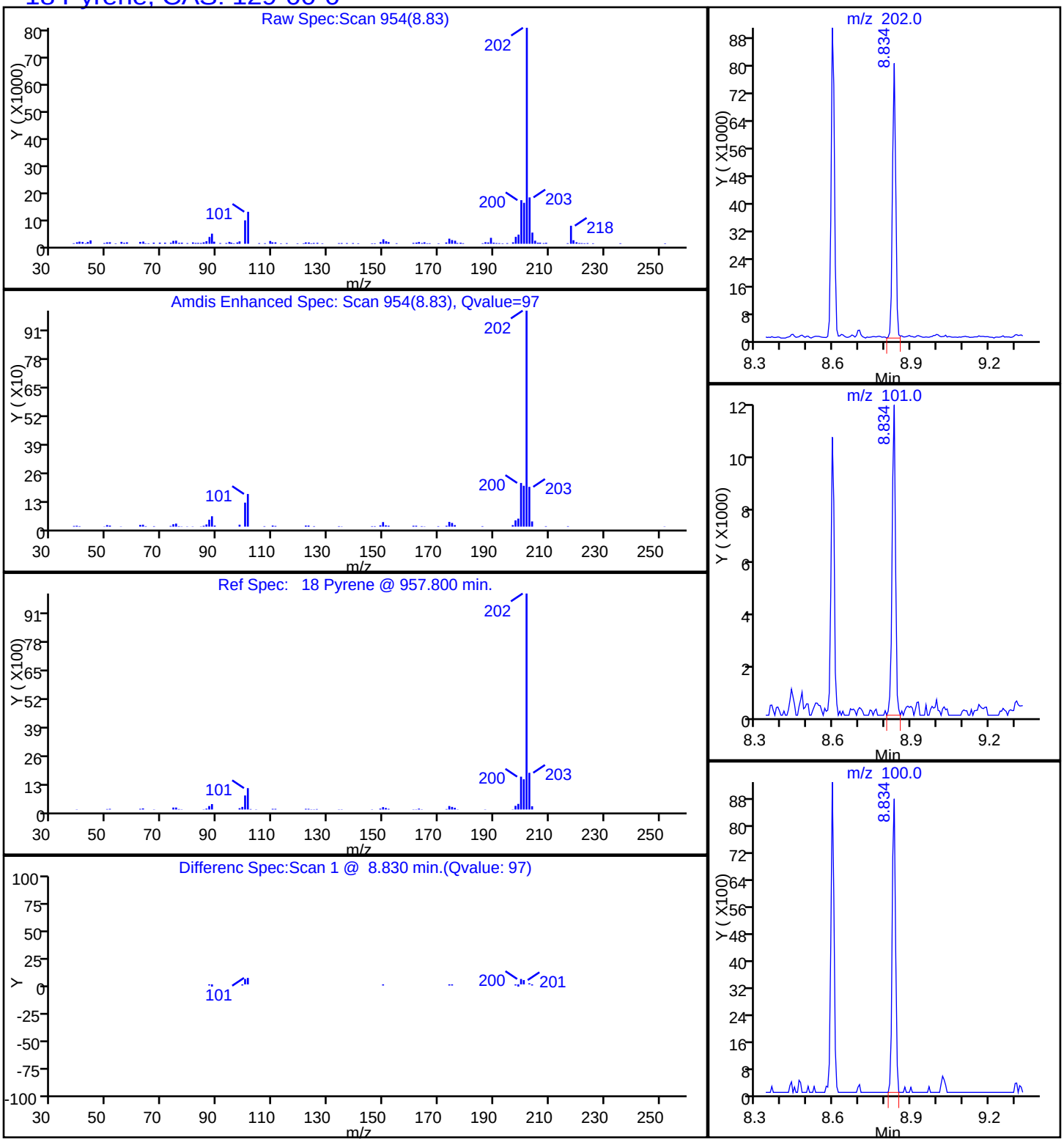


Report Date: 04-Nov-2014 09:15:18 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0320.D				
Injection Date:	03-Nov-2014 17:34:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-12-A	Lab Sample ID:	680-106803-12		
Client ID:	CV0971NN-CSD12"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

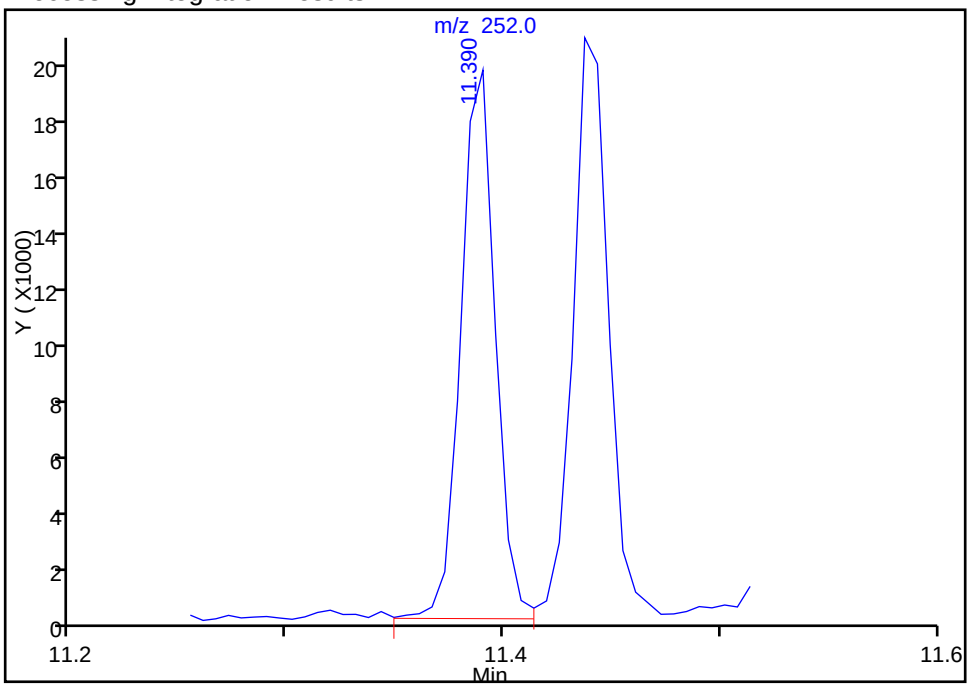
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0320.D				
Injection Date:	03-Nov-2014 17:34:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-12-A	Lab Sample ID:	680-106803-12		
Client ID:	CV0971NN-CSD12"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

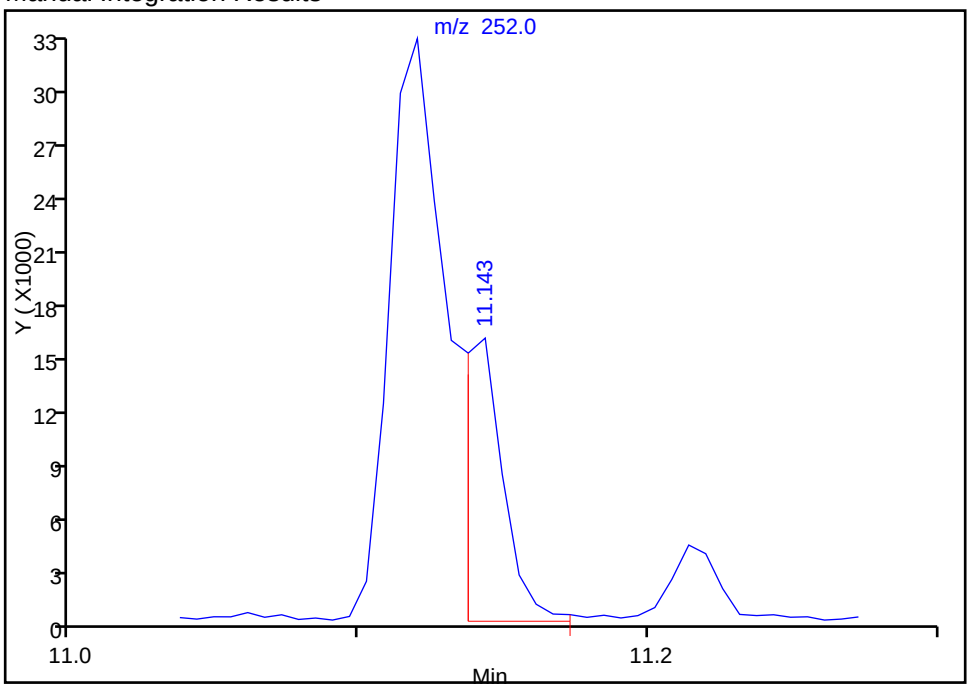
Processing Integration Results

RT: 11.39
Response: 20811
Amount: 0.204140



Manual Integration Results

RT: 11.14
Response: 15157
Amount: 0.148679



Reviewer: webbk, 04-Nov-2014 09:07:19
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971NN-CS18" | Lab Sample ID: 680-106803-13

Matrix: Solid | Lab File ID: 1KK0321.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 10:45

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.03(g) | Date Analyzed: 11/03/2014 17:56

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

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

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	79	U	79	39
208-96-8	Acenaphthylene	79	U	79	39
120-12-7	Anthracene	79	U	79	39
56-55-3	Benzo[a]anthracene	43	J	79	39
50-32-8	Benzo[a]pyrene	49	J	79	14
205-99-2	Benzo[b]fluoranthene	71	J	79	39
191-24-2	Benzo[g,h,i]perylene	79	U	79	39
207-08-9	Benzo[k]fluoranthene	29	J	79	24
218-01-9	Chrysene	53	J	79	39
53-70-3	Dibenz(a,h)anthracene	79	U	79	39
206-44-0	Fluoranthene	61	J	79	39
86-73-7	Fluorene	79	U	79	39
193-39-5	Indeno[1,2,3-cd]pyrene	79	U	79	39
90-12-0	1-Methylnaphthalene	79	U	79	37
91-57-6	2-Methylnaphthalene	79	U	79	39
91-20-3	Naphthalene	79	U	79	39
85-01-8	Phenanthrene	29	J	79	28
129-00-0	Pyrene	59	J	79	39

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\20141103-14354.b\1KK0321.D
Lims ID: 680-106803-B-13-A Lab Sample ID: 680-106803-13
Client ID: CV0971NN-CS18"
Sample Type: Client
Inject. Date: 03-Nov-2014 17:56:30 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 680-106803-B-13-A 1:10
Misc. Info.: 680-0014354-021
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 04-Nov-2014 09:15:09 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 04-Nov-2014 09:07:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.893	3.893	0.000	99	426853	2.00	
* 2 Acenaphthene-d10	164	5.667	5.662	0.005	91	244402	2.00	
* 3 Phenanthrene-d10	188	7.271	7.266	0.005	98	356710	2.00	
* 4 Chrysene-d12	240	10.098	10.092	0.006	99	237433	2.00	
* 5 Perylene-d12	264	11.502	11.496	0.006	99	158673	2.00	
15 Phenanthrene	178	7.295	7.289	0.006	97	15978	0.0735	
16 Anthracene	178	7.348	7.348	0.000	64	1913	0.009363	7
17 Fluoranthene	202	8.593	8.594	-0.001	98	33646	0.1547	
18 Pyrene	202	8.834	8.829	0.005	97	31613	0.1484	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	98	15498	0.1093	
20 Chrysene	228	10.121	10.115	0.006	98	17797	0.1330	
21 Benzo[b]fluoranthene	252	11.114	11.114	0.000	98	18439	0.1797	
22 Benzo[k]fluoranthene	252	11.138	11.138	0.000	96	7750	0.0730	M
23 Benzo[a]pyrene	252	11.437	11.437	0.000	97	11056	0.1234	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

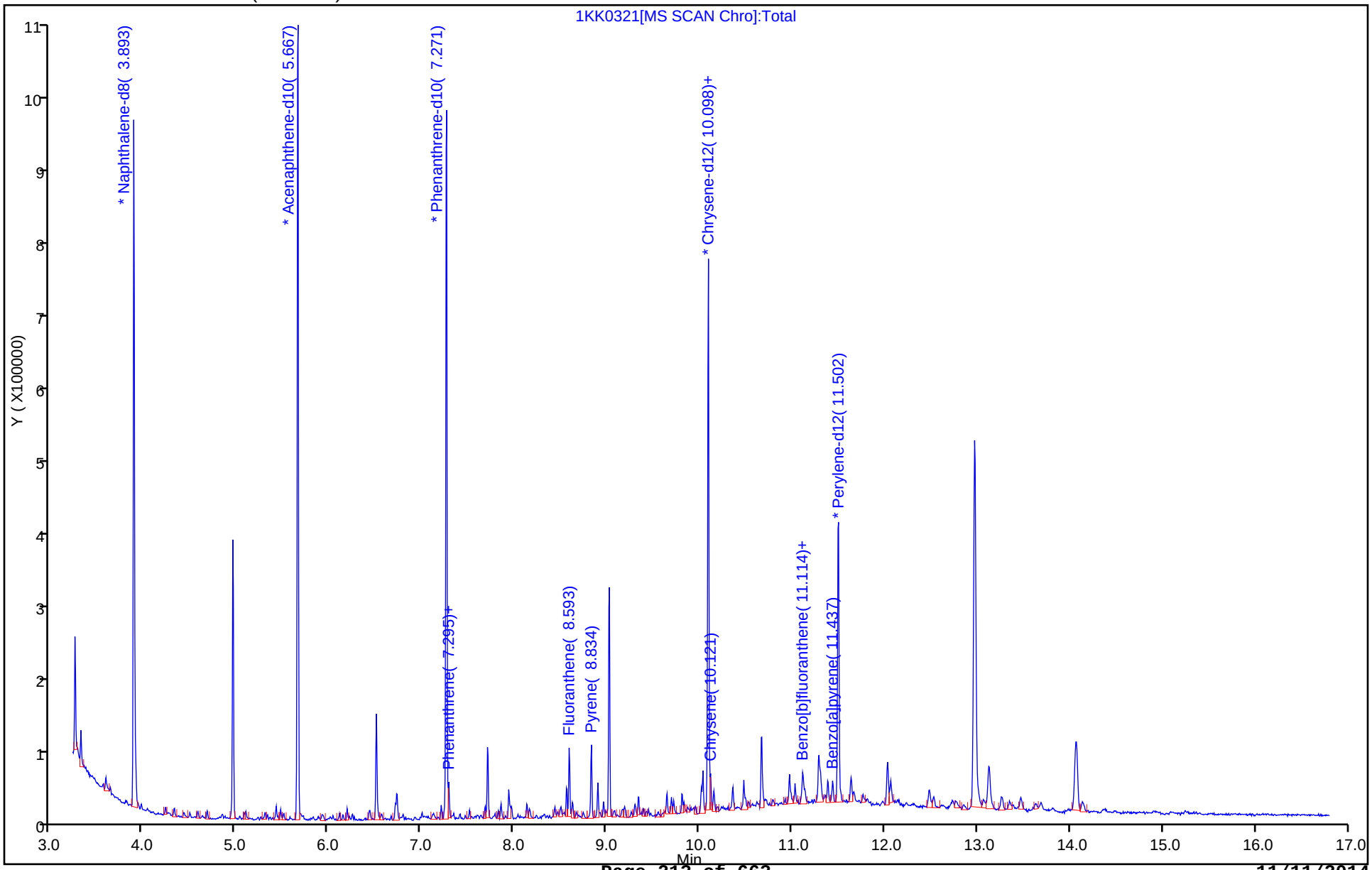
SM-LLISTD_00110 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 04-Nov-2014 09:15:17 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0321.D				
Injection Date:	03-Nov-2014 17:56:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-13-A	Lab Sample ID:	680-106803-13	Worklist Smp#:	21
Client ID:	CV0971NN-CS18"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	21
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

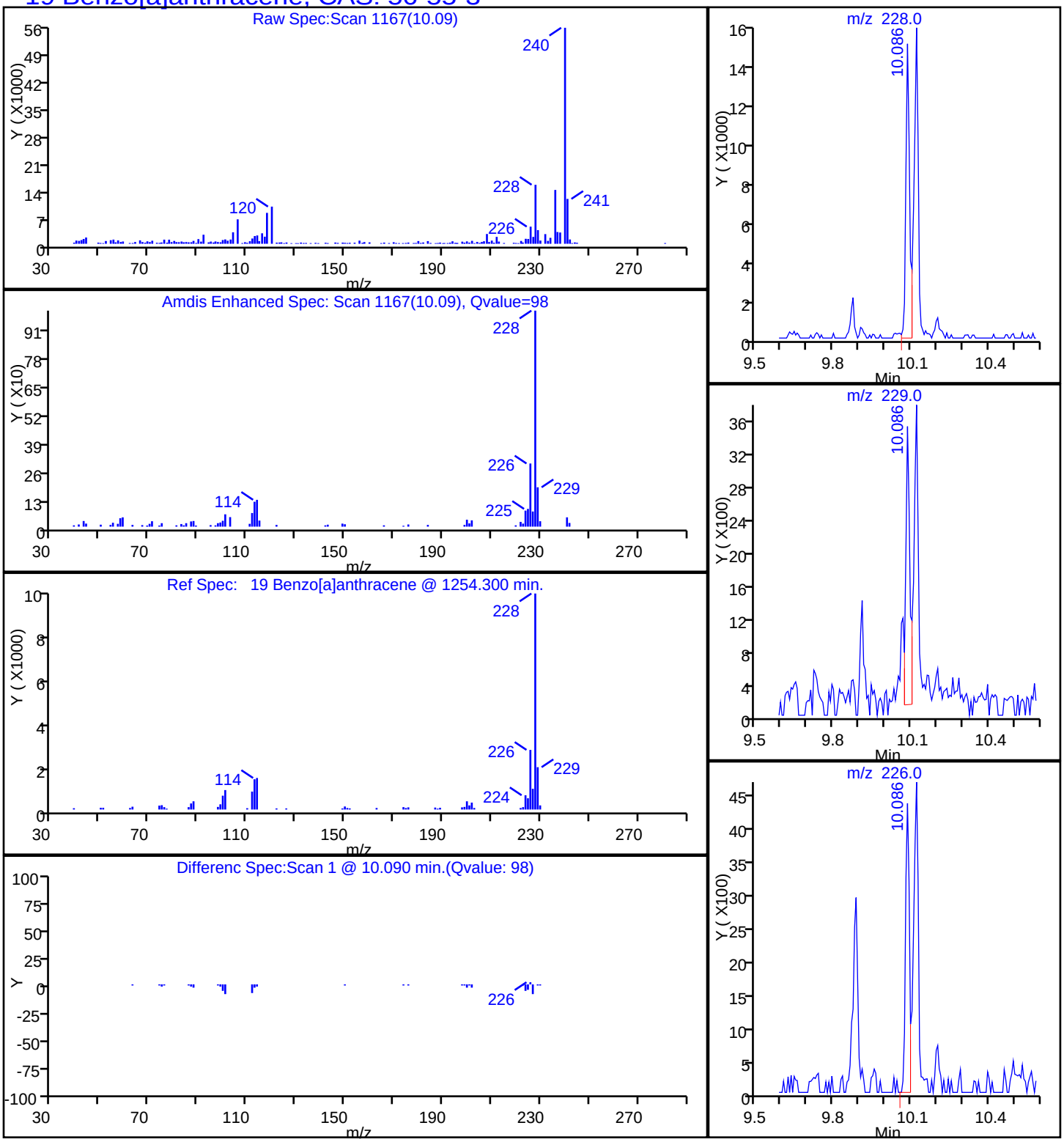


Report Date: 04-Nov-2014 09:15:18 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0321.D				
Injection Date:	03-Nov-2014 17:56:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-13-A	Lab Sample ID:	680-106803-13		
Client ID:	CV0971NN-CS18"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

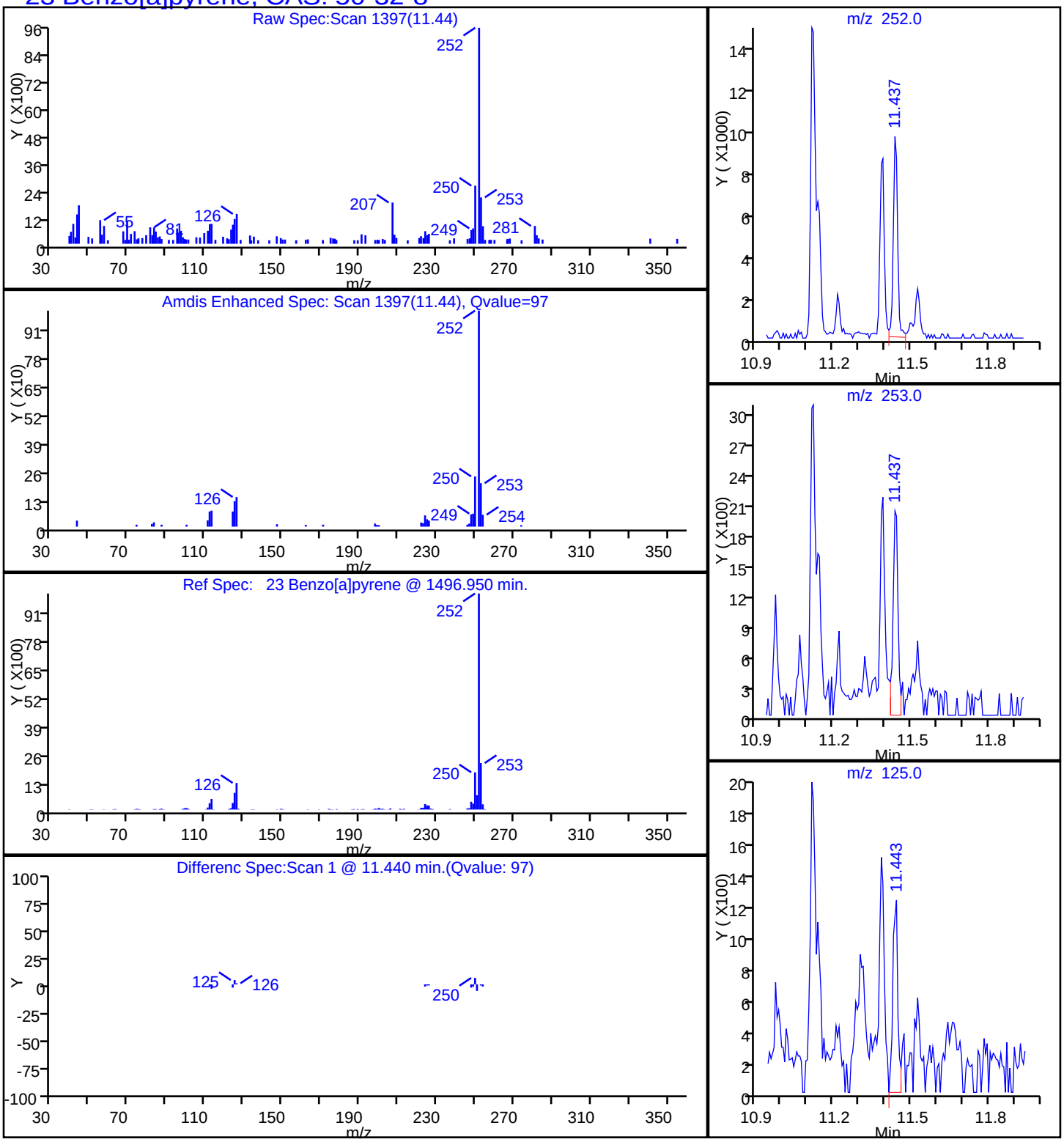


Report Date: 04-Nov-2014 09:15:18 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0321.D				
Injection Date:	03-Nov-2014 17:56:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-13-A	Lab Sample ID:	680-106803-13		
Client ID:	CV0971NN-CS18"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

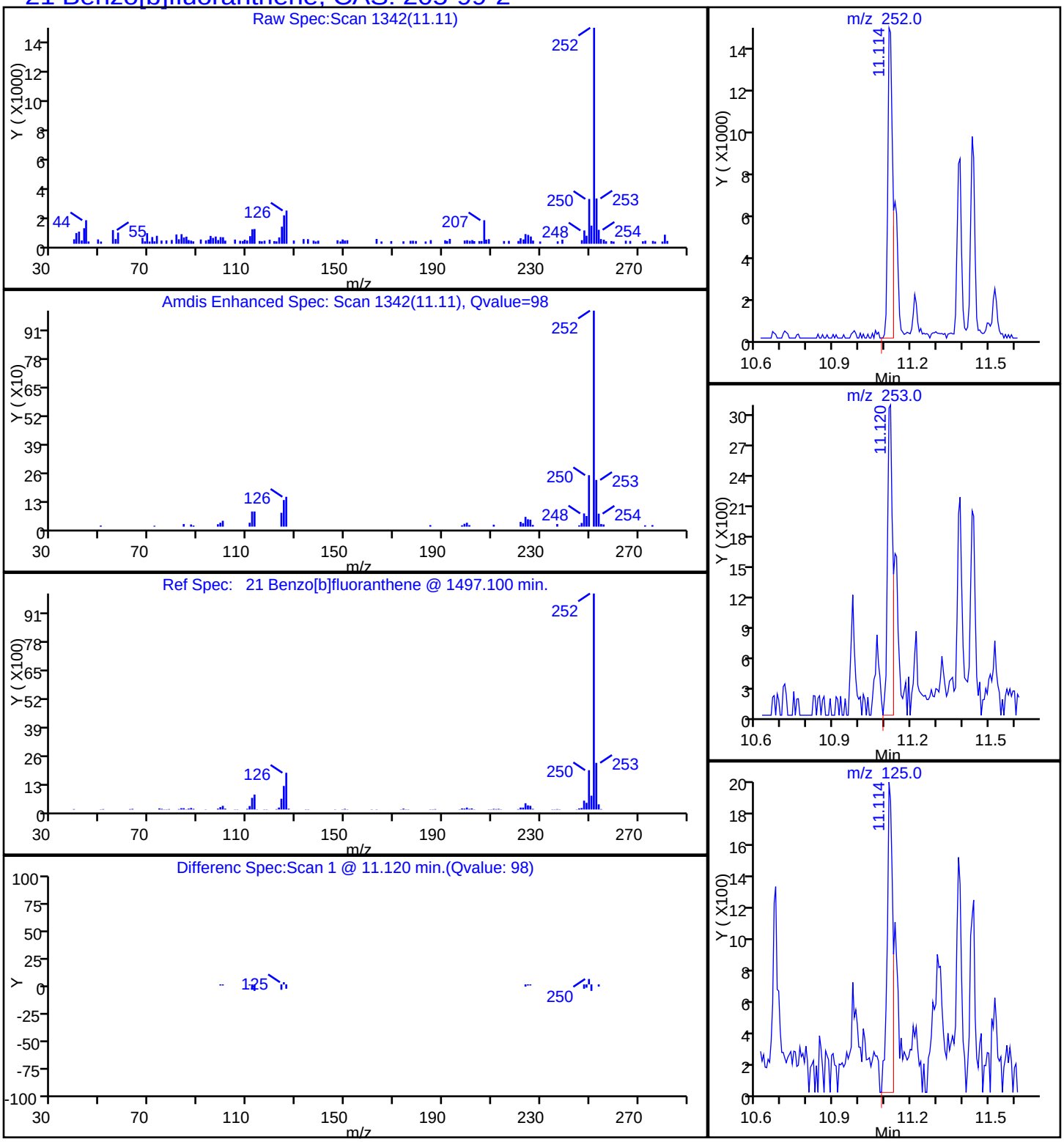


Report Date: 04-Nov-2014 09:15:18 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0321.D				
Injection Date:	03-Nov-2014 17:56:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-13-A	Lab Sample ID:	680-106803-13		
Client ID:	CV0971NN-CS18"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

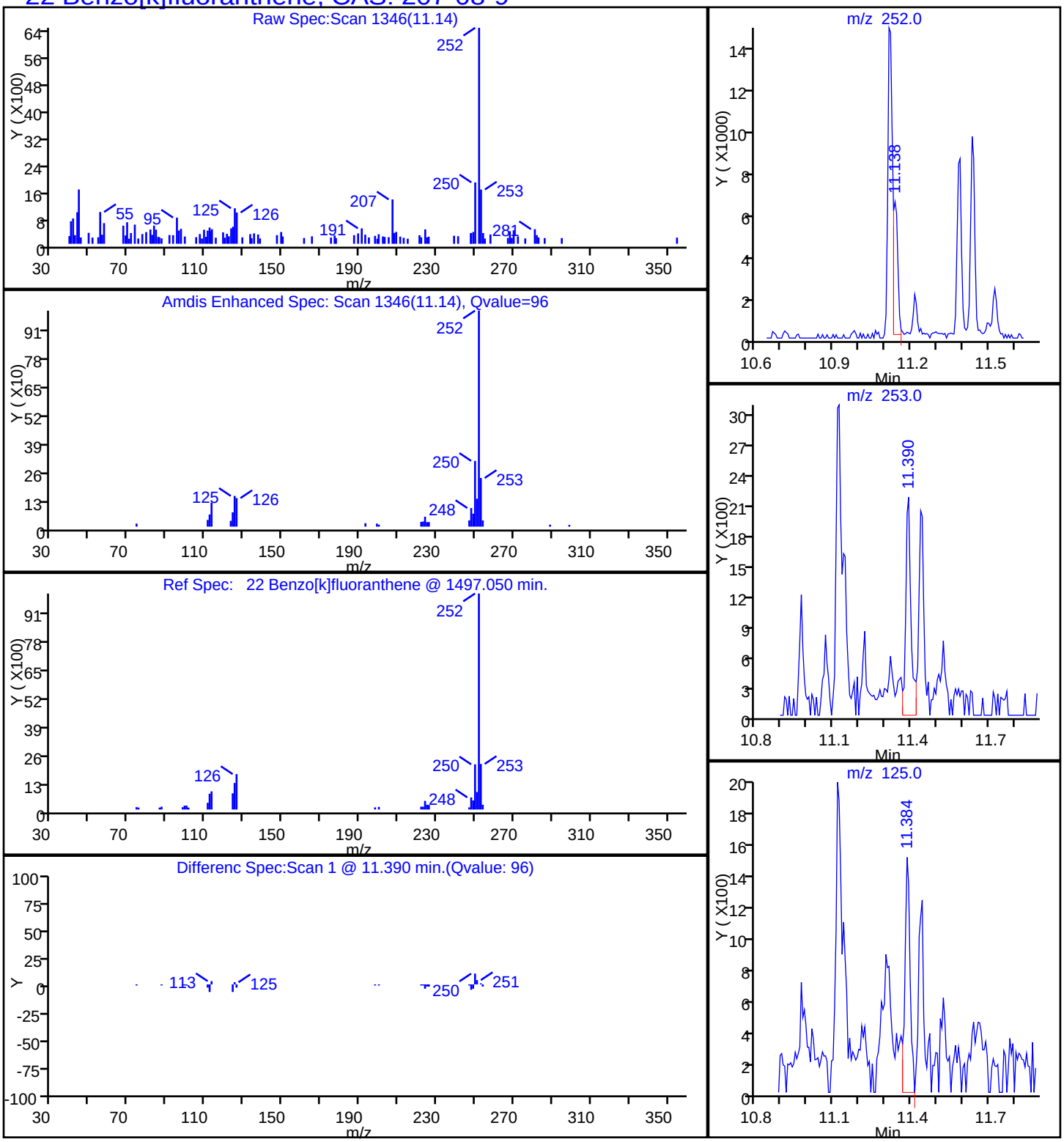


Report Date: 04-Nov-2014 09:15:18 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0321.D				
Injection Date:	03-Nov-2014 17:56:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-13-A	Lab Sample ID:	680-106803-13		
Client ID:	CV0971NN-CS18"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

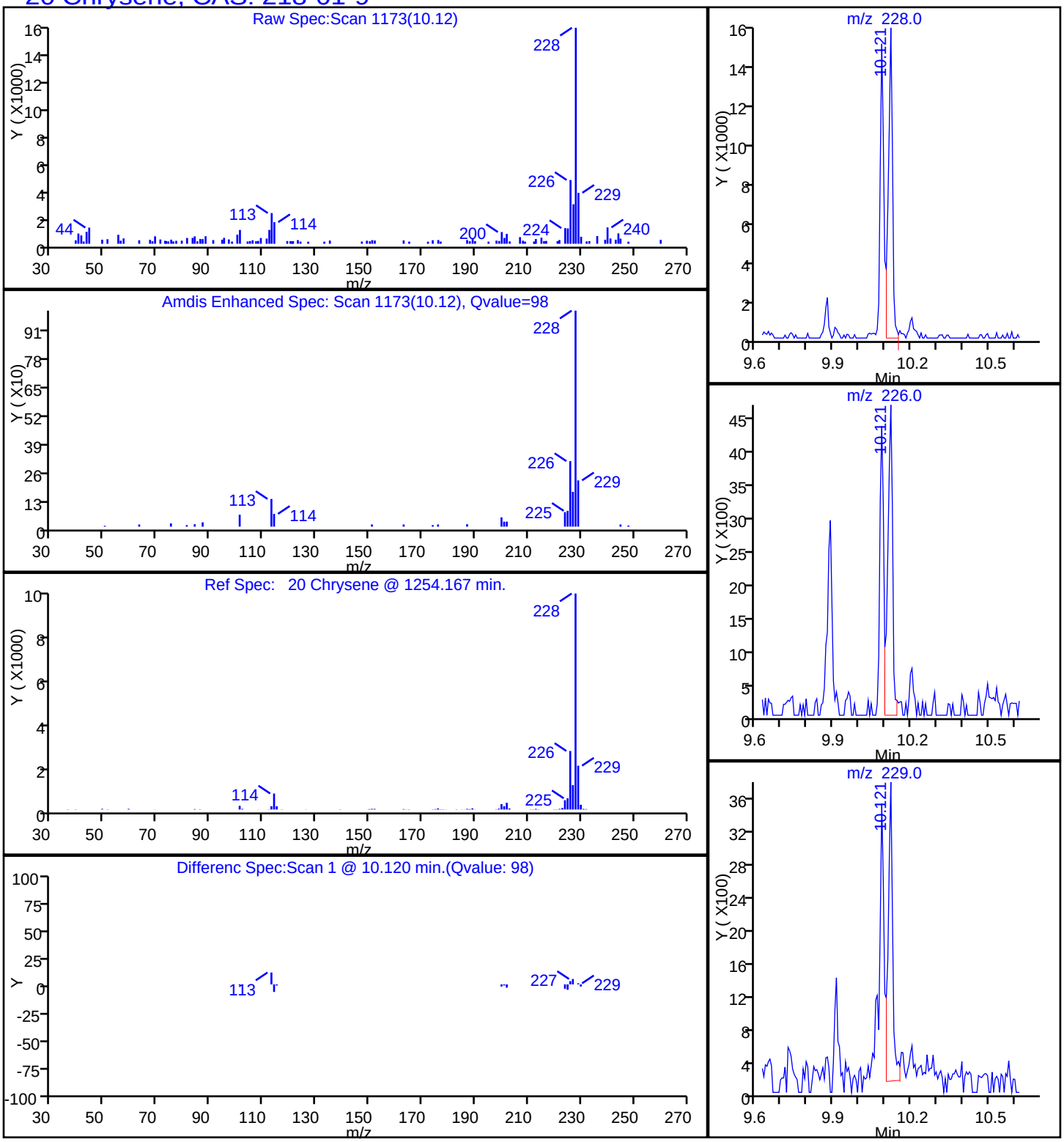


Report Date: 04-Nov-2014 09:15:18 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0321.D				
Injection Date:	03-Nov-2014 17:56:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-13-A	Lab Sample ID:	680-106803-13		
Client ID:	CV0971NN-CS18"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

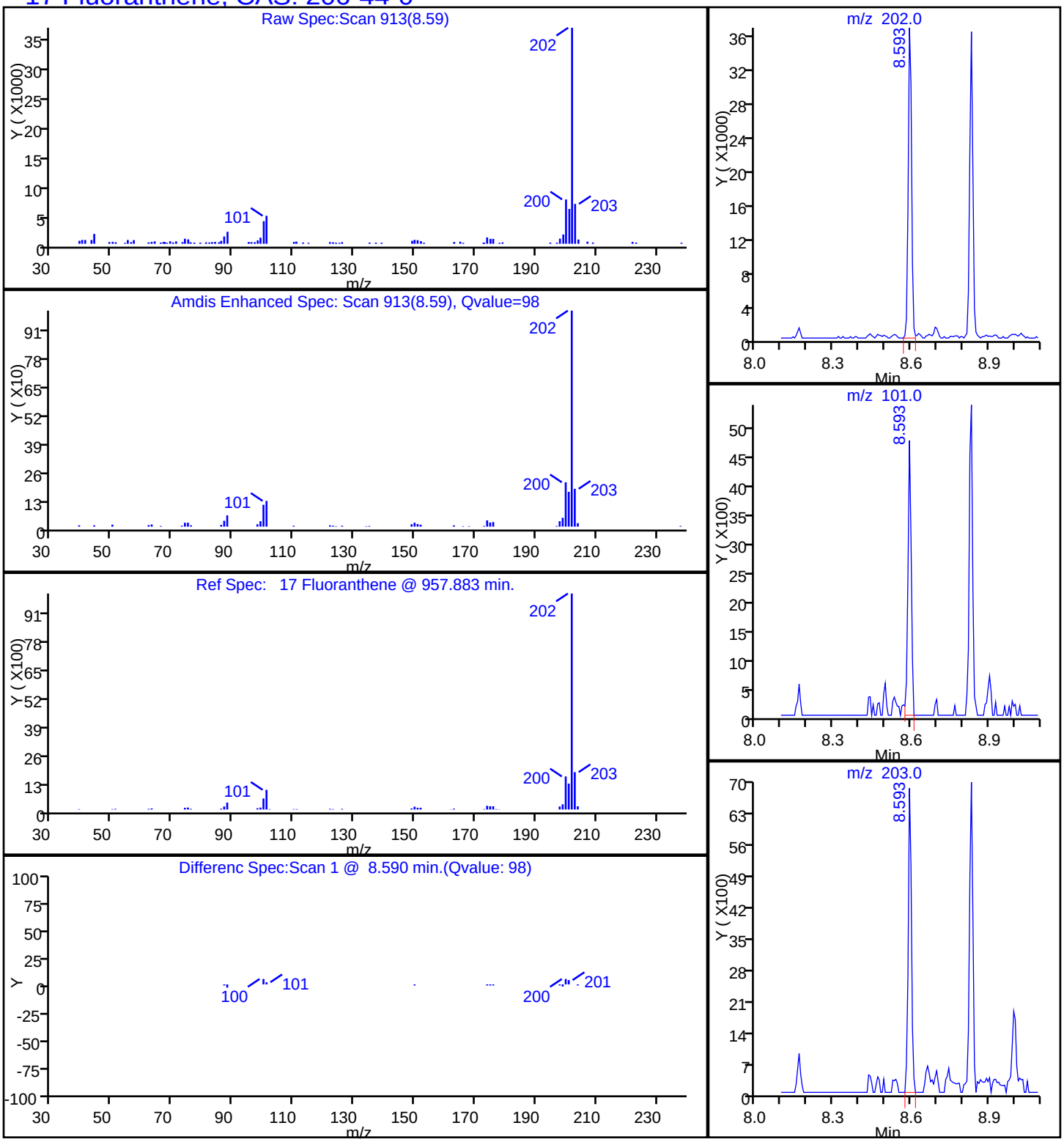


Report Date: 04-Nov-2014 09:15:17 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0321.D				
Injection Date:	03-Nov-2014 17:56:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-13-A	Lab Sample ID:	680-106803-13		
Client ID:	CV0971NN-CS18"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

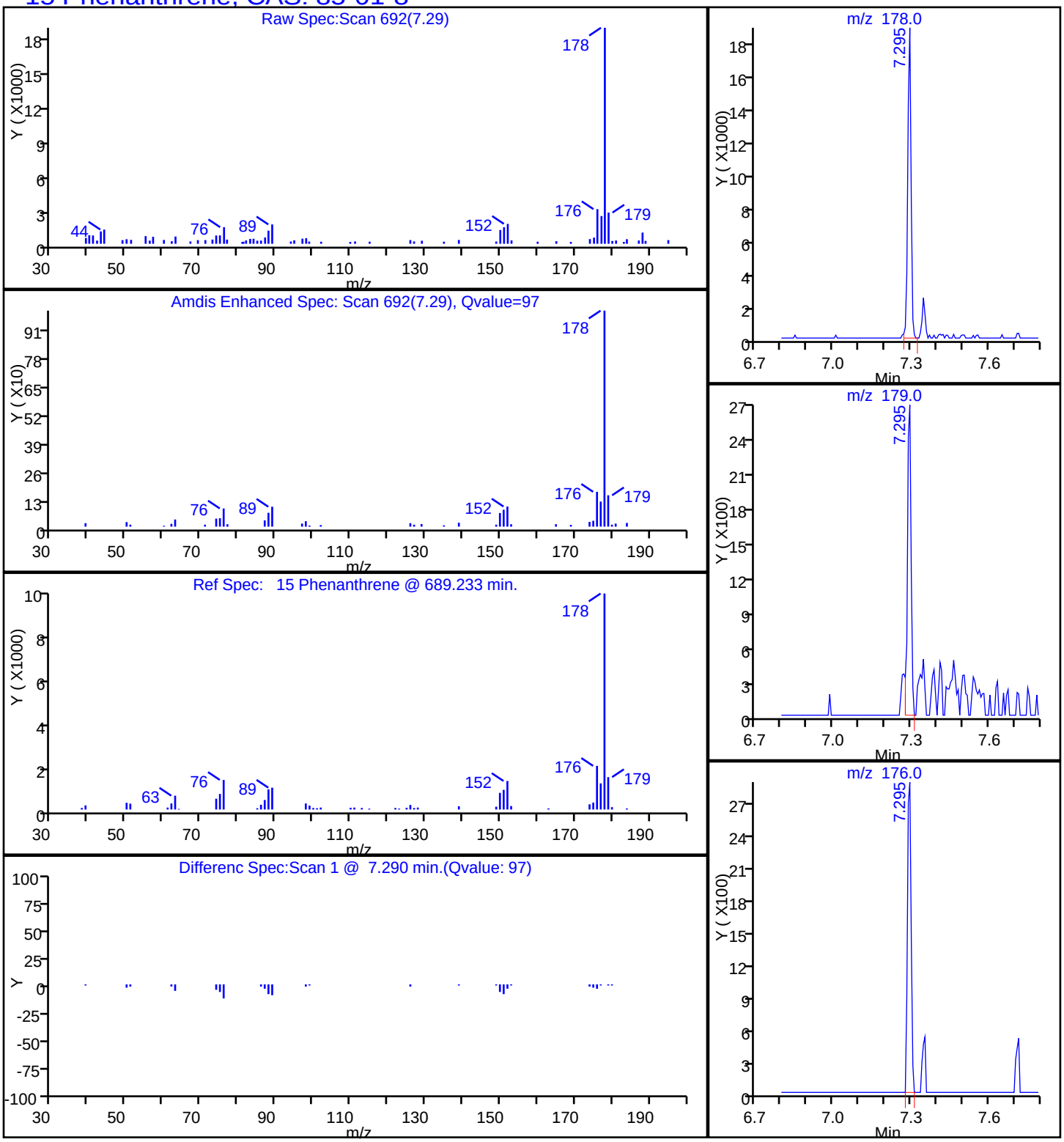


Report Date: 04-Nov-2014 09:15:17 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0321.D				
Injection Date:	03-Nov-2014 17:56:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-13-A	Lab Sample ID:	680-106803-13		
Client ID:	CV0971NN-CS18"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

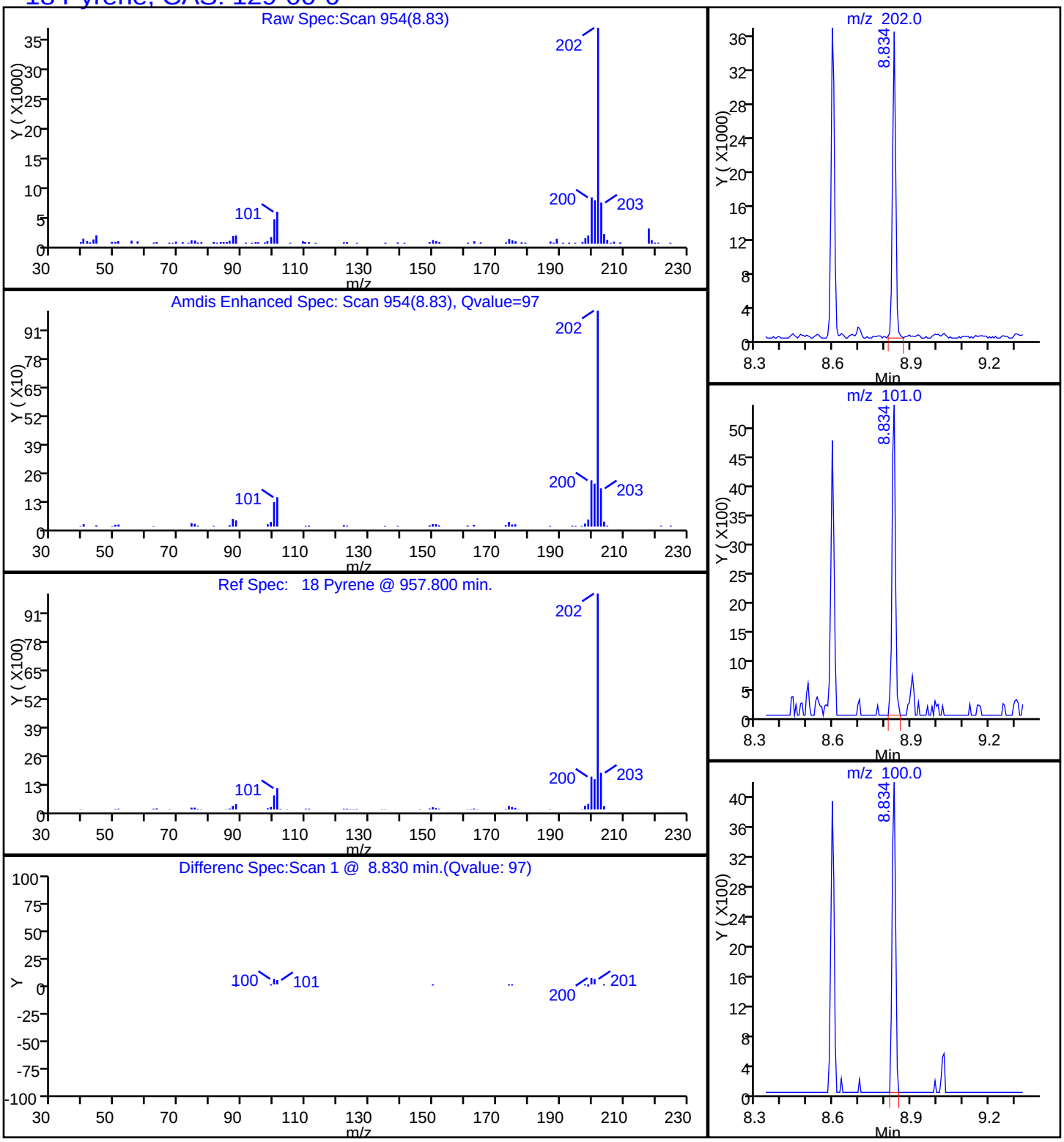


Report Date: 04-Nov-2014 09:15:18 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0321.D				
Injection Date:	03-Nov-2014 17:56:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-13-A	Lab Sample ID:	680-106803-13		
Client ID:	CV0971NN-CS18"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

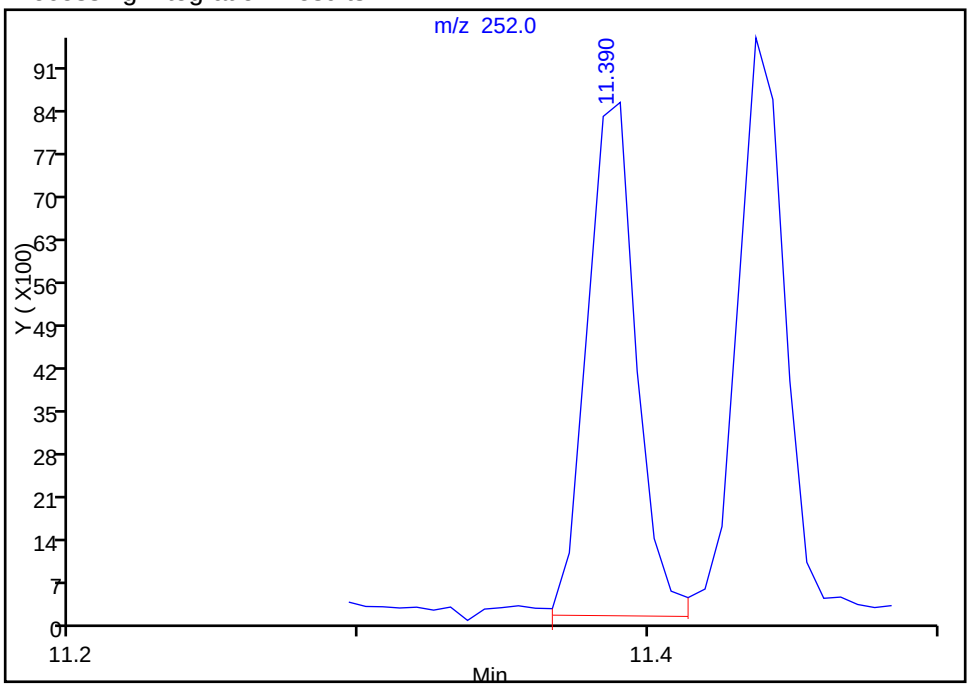
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0321.D				
Injection Date:	03-Nov-2014 17:56:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-13-A	Lab Sample ID:	680-106803-13		
Client ID:	CV0971NN-CS18"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

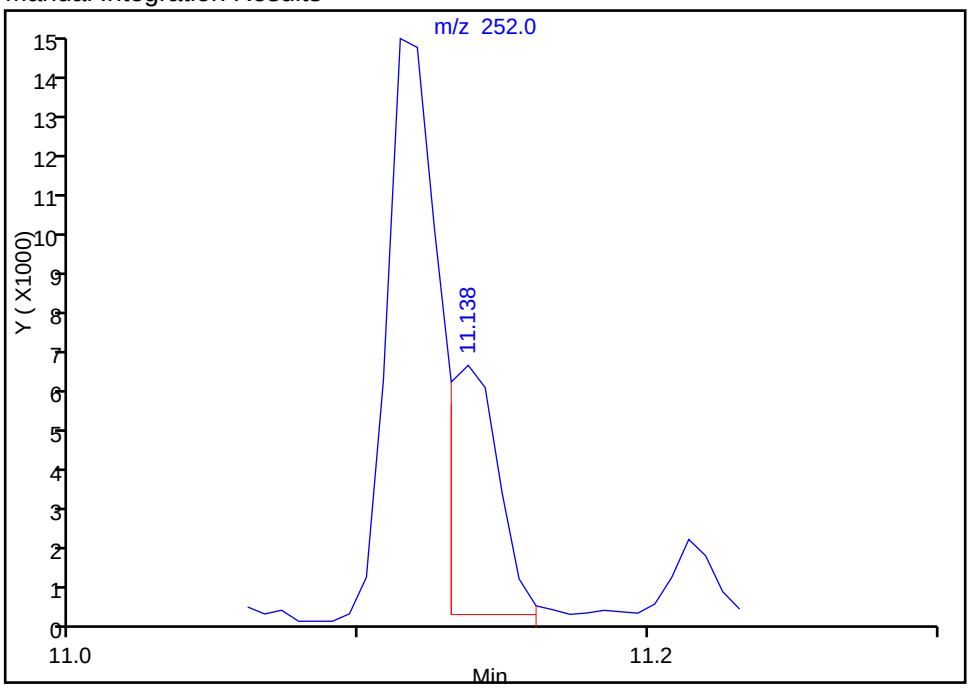
Processing Integration Results

RT: 11.39
Response: 9931
Amount: 0.093502



Manual Integration Results

RT: 11.14
Response: 7750
Amount: 0.072968



Reviewer: webbk, 04-Nov-2014 09:07:58
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971NN-CS24" | Lab Sample ID: 680-106803-14

Matrix: Solid | Lab File ID: 1KK0322.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 11:00

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.03(g) | Date Analyzed: 11/03/2014 18:19

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

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

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

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	79	U	79	39
208-96-8	Acenaphthylene	79	U	79	39
120-12-7	Anthracene	79	U	79	39
56-55-3	Benzo[a]anthracene	90		79	39
50-32-8	Benzo[a]pyrene	120		79	14
205-99-2	Benzo[b]fluoranthene	180		79	39
191-24-2	Benzo[g,h,i]perylene	47	J	79	39
207-08-9	Benzo[k]fluoranthene	88		79	24
218-01-9	Chrysene	140		79	39
53-70-3	Dibenz(a,h)anthracene	79	U	79	39
206-44-0	Fluoranthene	200		79	39
86-73-7	Fluorene	79	U	79	39
193-39-5	Indeno[1,2,3-cd]pyrene	79	U	79	39
90-12-0	1-Methylnaphthalene	79	U	79	36
91-57-6	2-Methylnaphthalene	79	U	79	39
91-20-3	Naphthalene	79	U	79	39
85-01-8	Phenanthrene	110		79	28
129-00-0	Pyrene	190		79	39

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\20141103-14354.b\1KK0322.D				
Lims ID:	680-106803-B-14-A	Lab Sample ID:	680-106803-14		
Client ID:	CV0971NN-CS24"				
Sample Type:	Client				
Inject. Date:	03-Nov-2014 18:19:30	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	680-106803-B-14-A 1:10				
Misc. Info.:	680-0014354-022				
Operator ID:	RM	Instrument ID:	CMSK		

Method:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m		
Limit Group:	8270D_LL_PAH		
Last Update:	04-Nov-2014 09:15:09	Calib Date:	22-Oct-2014 16:17:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D		

Column 1 :	Restek RXi-5Sil MS (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK009	

First Level Reviewer: webbk Date: 04-Nov-2014 09:08:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.893	3.893	0.000	99	382077	2.00	
* 2 Acenaphthene-d10	164	5.667	5.662	0.005	92	216489	2.00	
* 3 Phenanthrene-d10	188	7.271	7.266	0.005	98	319371	2.00	
* 4 Chrysene-d12	240	10.098	10.092	0.006	99	190435	2.00	
* 5 Perylene-d12	264	11.496	11.496	0.000	99	117040	2.00	
15 Phenanthrene	178	7.295	7.289	0.006	97	55541	0.2855	
17 Fluoranthene	202	8.593	8.594	-0.001	98	101007	0.5188	
18 Pyrene	202	8.834	8.829	0.005	97	80701	0.4722	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	96	26190	0.2303	
20 Chrysene	228	10.121	10.115	0.006	98	39399	0.3671	
21 Benzo[b]fluoranthene	252	11.114	11.114	0.000	97	34785	0.4596	
22 Benzo[k]fluoranthene	252	11.138	11.138	0.000	97	17666	0.2255	M
23 Benzo[a]pyrene	252	11.437	11.437	0.000	96	19887	0.3010	
24 Indeno[1,2,3-cd]pyrene	276	12.771	12.765	0.006	98	9104	0.0877	
26 Benzo[g,h,i]perylene	276	13.141	13.141	0.000	97	8062	0.1202	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

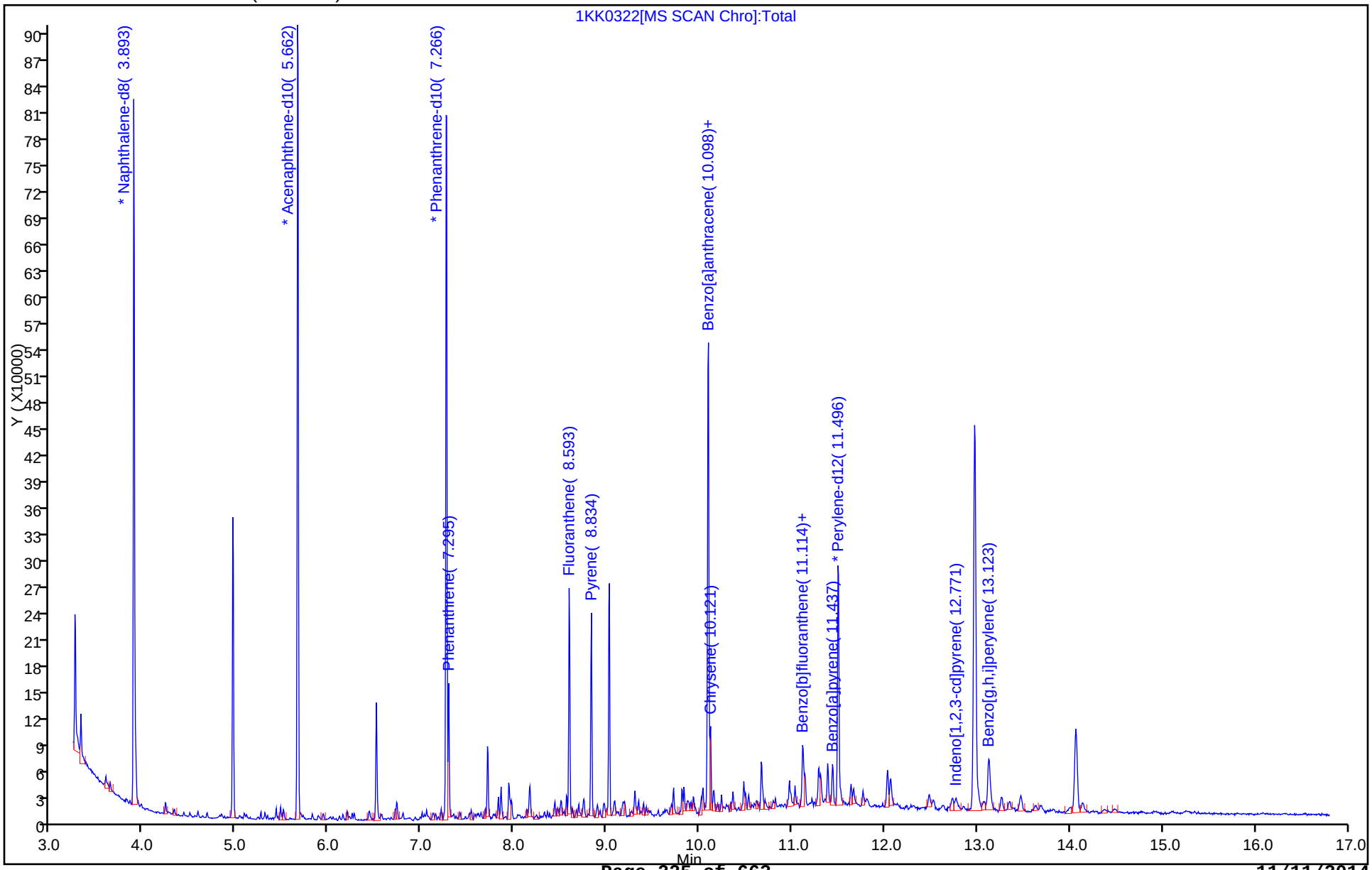
SM-LLISTD_00110 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 04-Nov-2014 09:15:16 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0322.D				
Injection Date:	03-Nov-2014 18:19:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-14-A	Lab Sample ID:	680-106803-14	Worklist Smp#:	22
Client ID:	CV0971NN-CS24"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	22
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

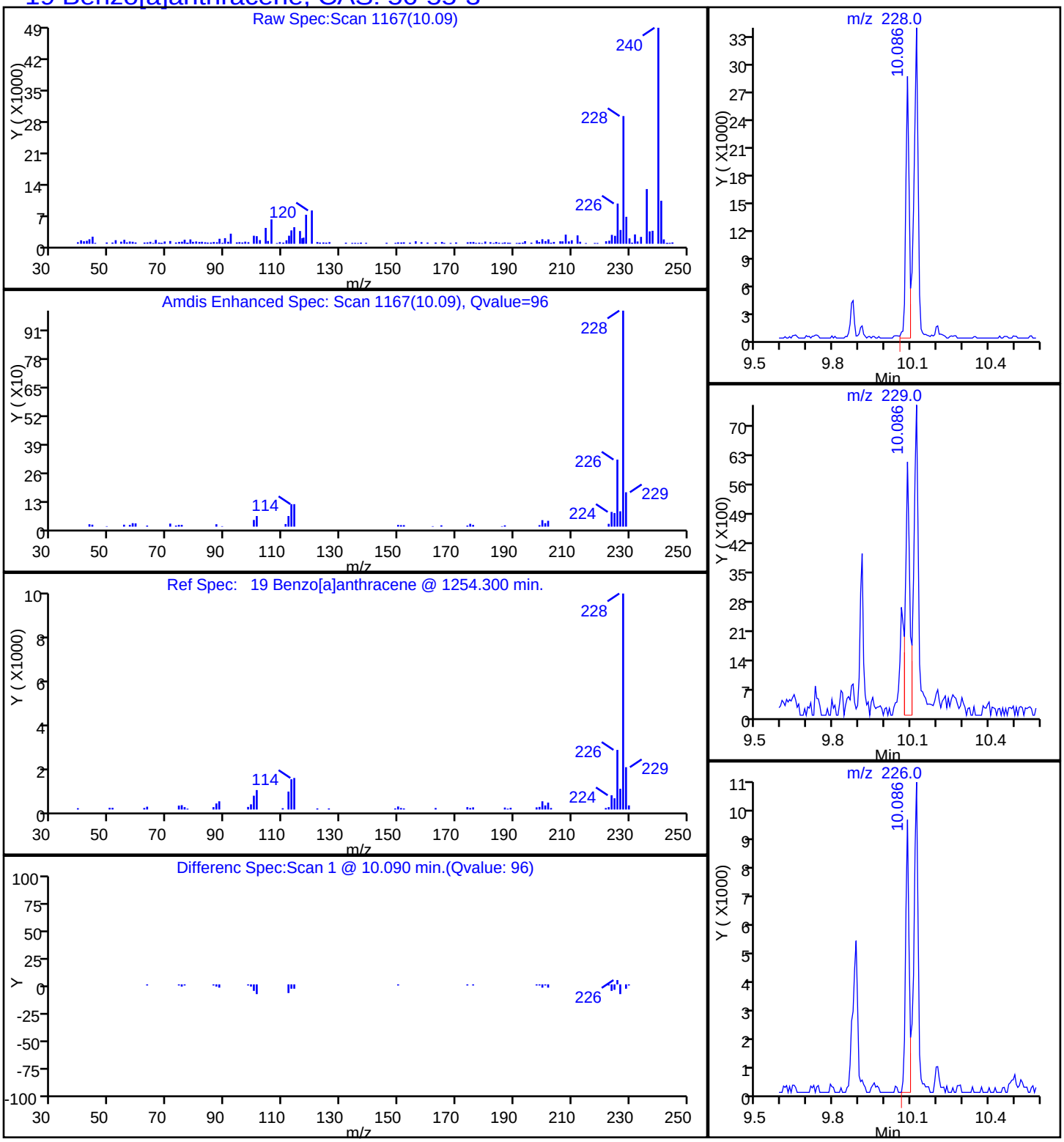


Report Date: 04-Nov-2014 09:15:17 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0322.D				
Injection Date:	03-Nov-2014 18:19:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-14-A	Lab Sample ID:	680-106803-14		
Client ID:	CV0971NN-CS24"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

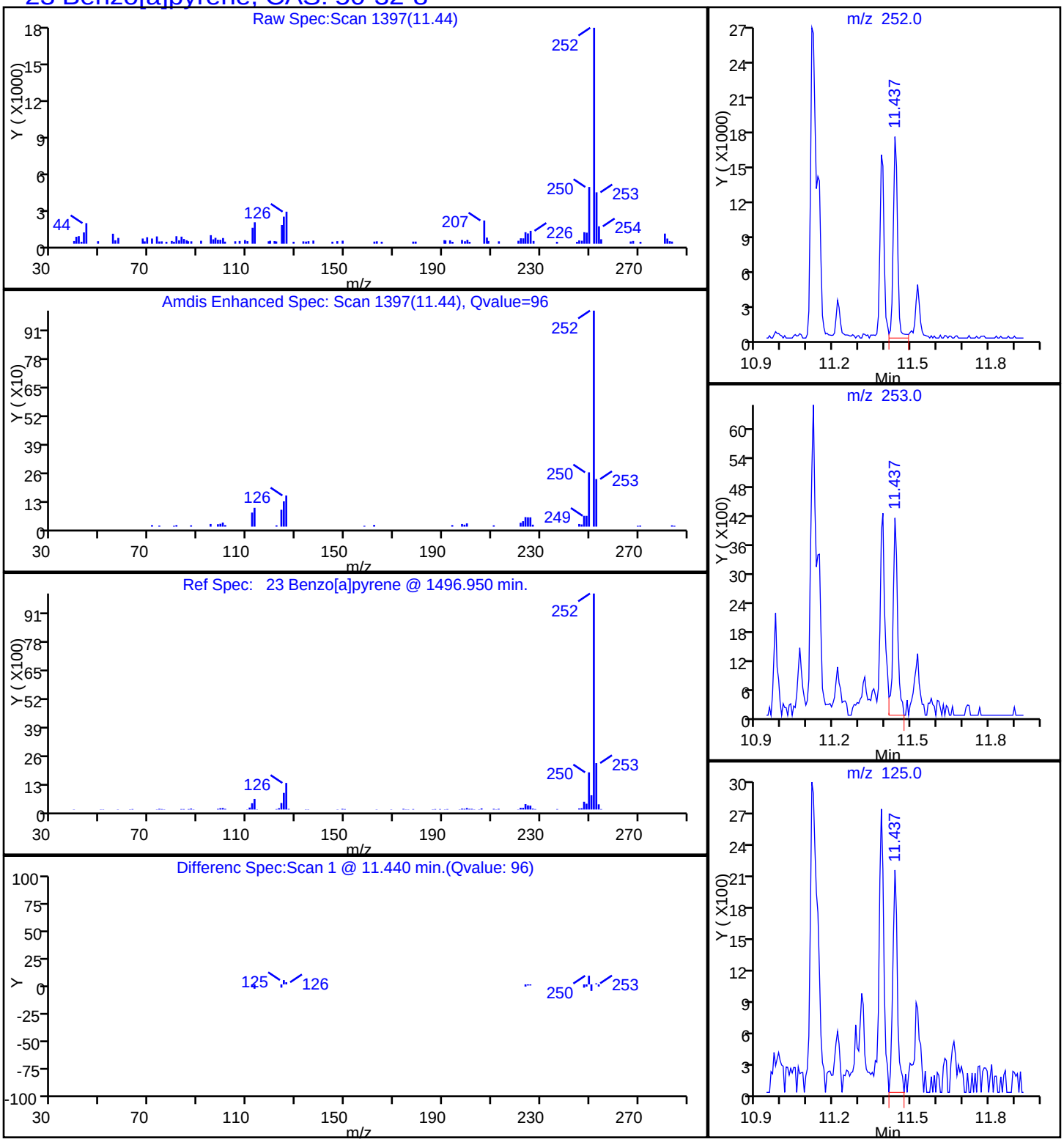


Report Date: 04-Nov-2014 09:15:17 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0322.D				
Injection Date:	03-Nov-2014 18:19:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-14-A	Lab Sample ID:	680-106803-14		
Client ID:	CV0971NN-CS24"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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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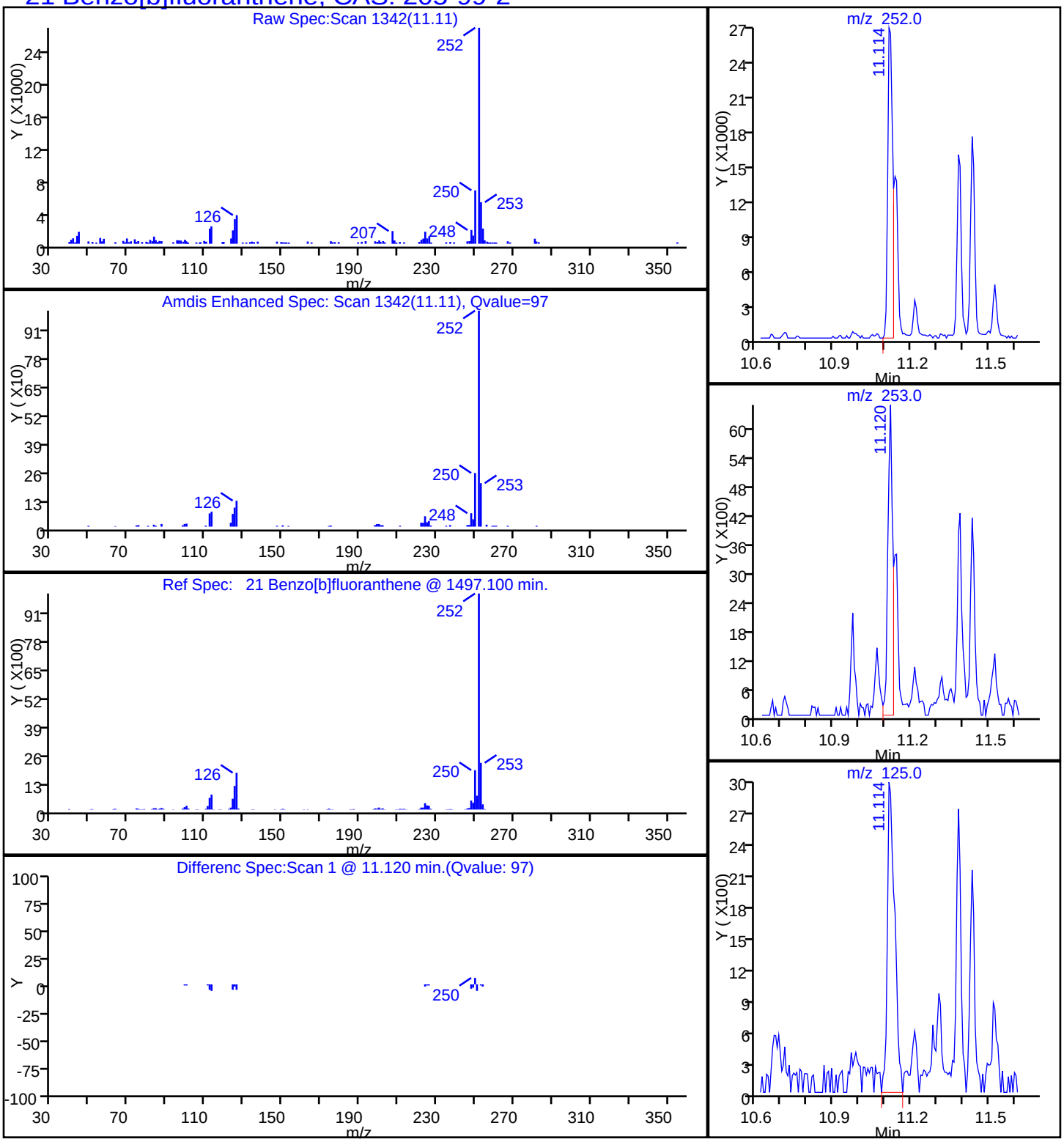
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0322.D				
Injection Date:	03-Nov-2014 18:19:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-14-A	Lab Sample ID:	680-106803-14		
Client ID:	CV0971NN-CS24"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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



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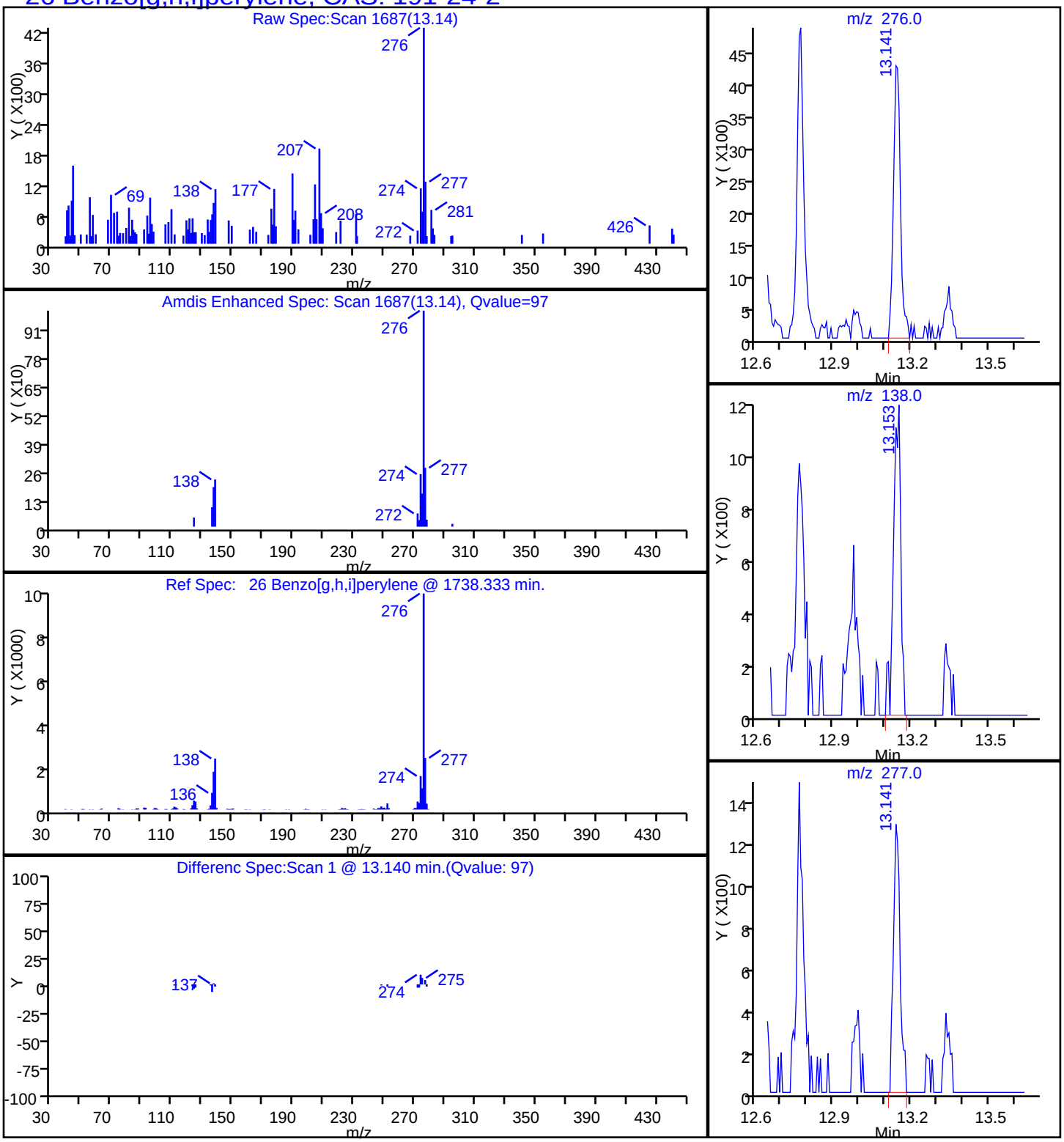
Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0322.D				
Injection Date:	03-Nov-2014 18:19:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-14-A	Lab Sample ID:	680-106803-14		
Client ID:	CV0971NN-CS24"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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



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Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0322.D				
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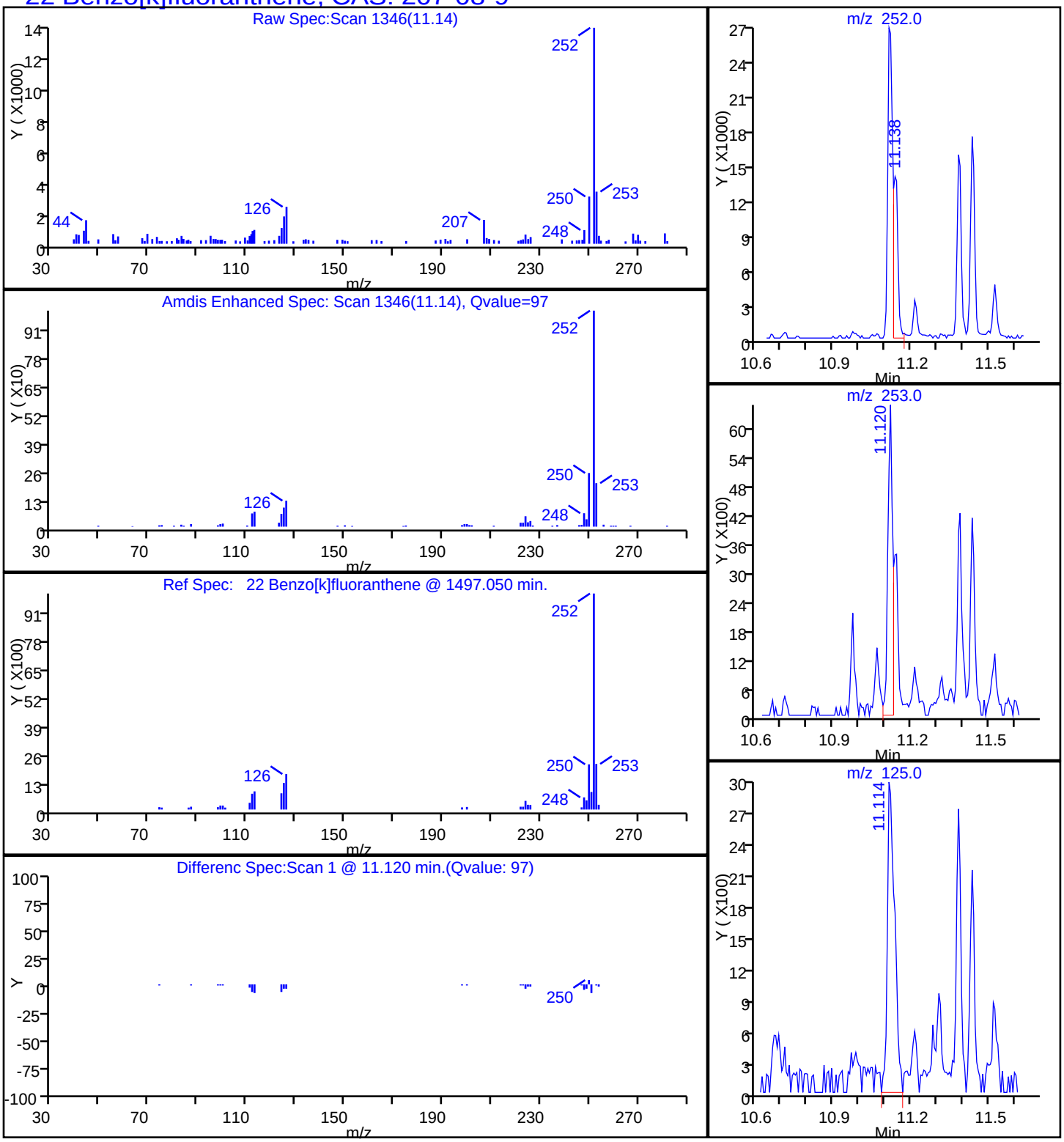
Client ID:	CV0971NN-CS24"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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



Report Date: 04-Nov-2014 09:15:17 Chrom Revision: 2.2 07-Oct-2014 12:16:06

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Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0322.D				
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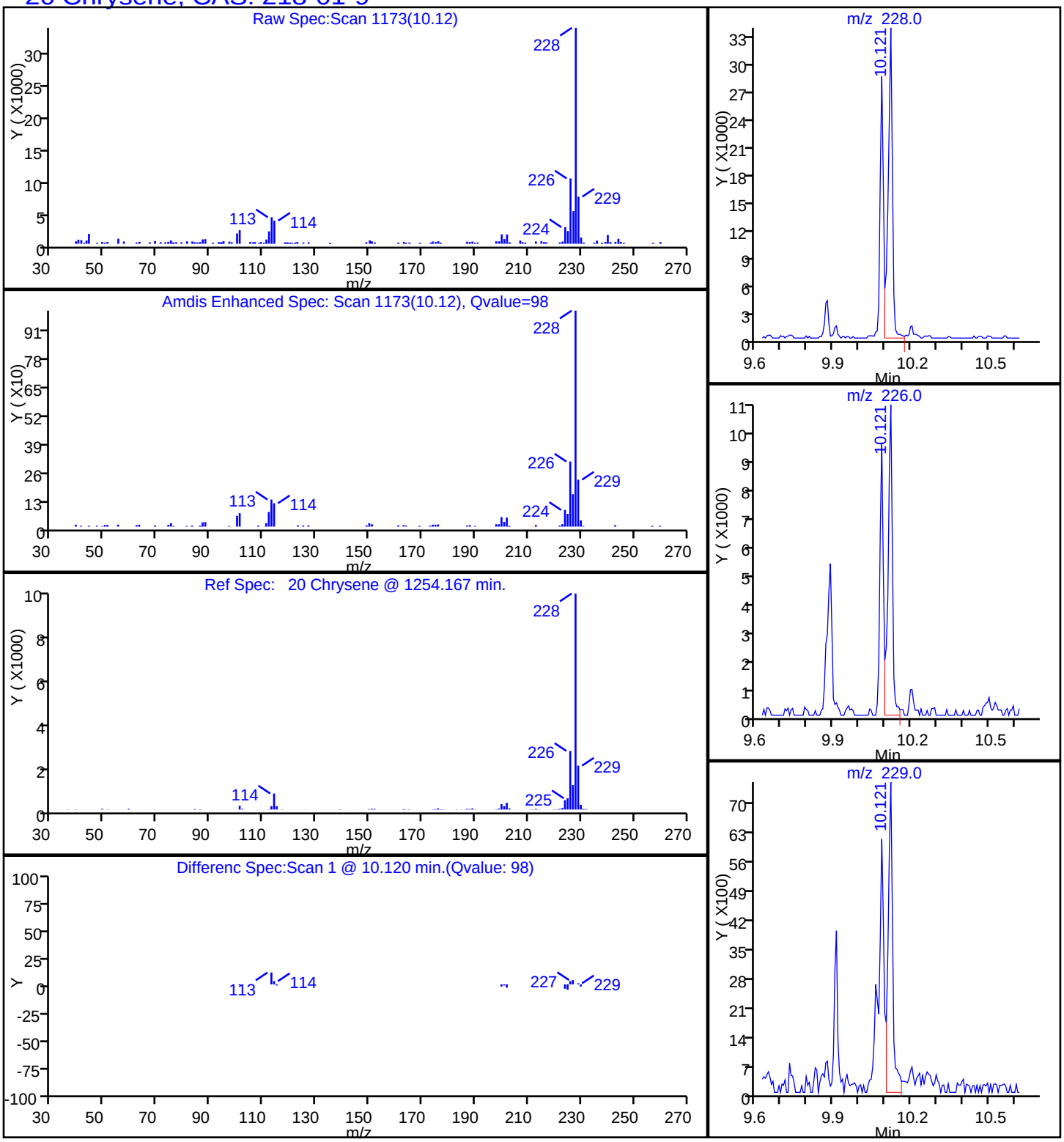
Lims ID:	680-106803-B-14-A	Lab Sample ID:	680-106803-14		
Client ID:	CV0971NN-CS24"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Chrysene, CAS: 218-01-9

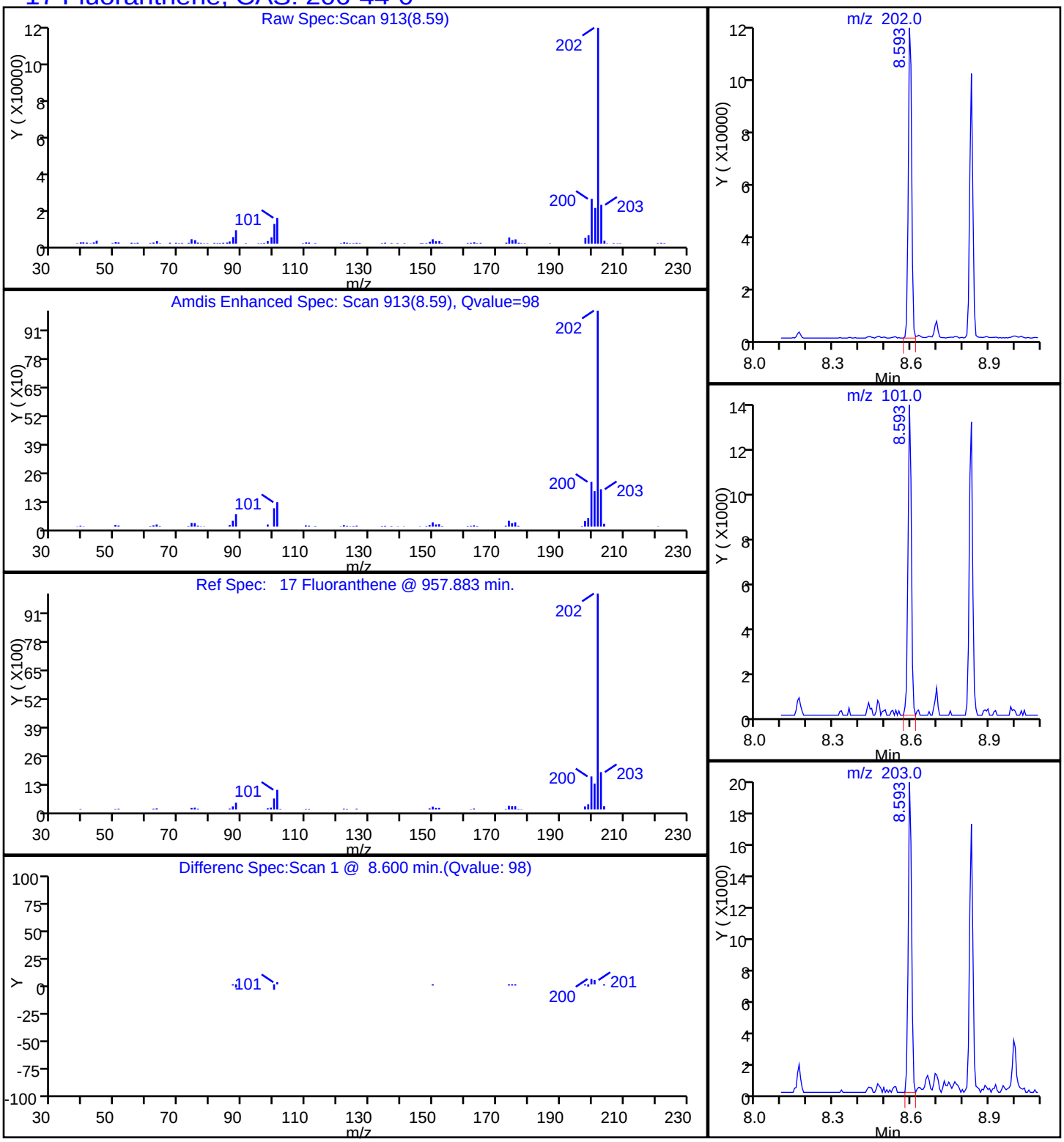


Report Date: 04-Nov-2014 09:15:17 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0322.D				
Injection Date:	03-Nov-2014 18:19:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-14-A	Lab Sample ID:	680-106803-14		
Client ID:	CV0971NN-CS24"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

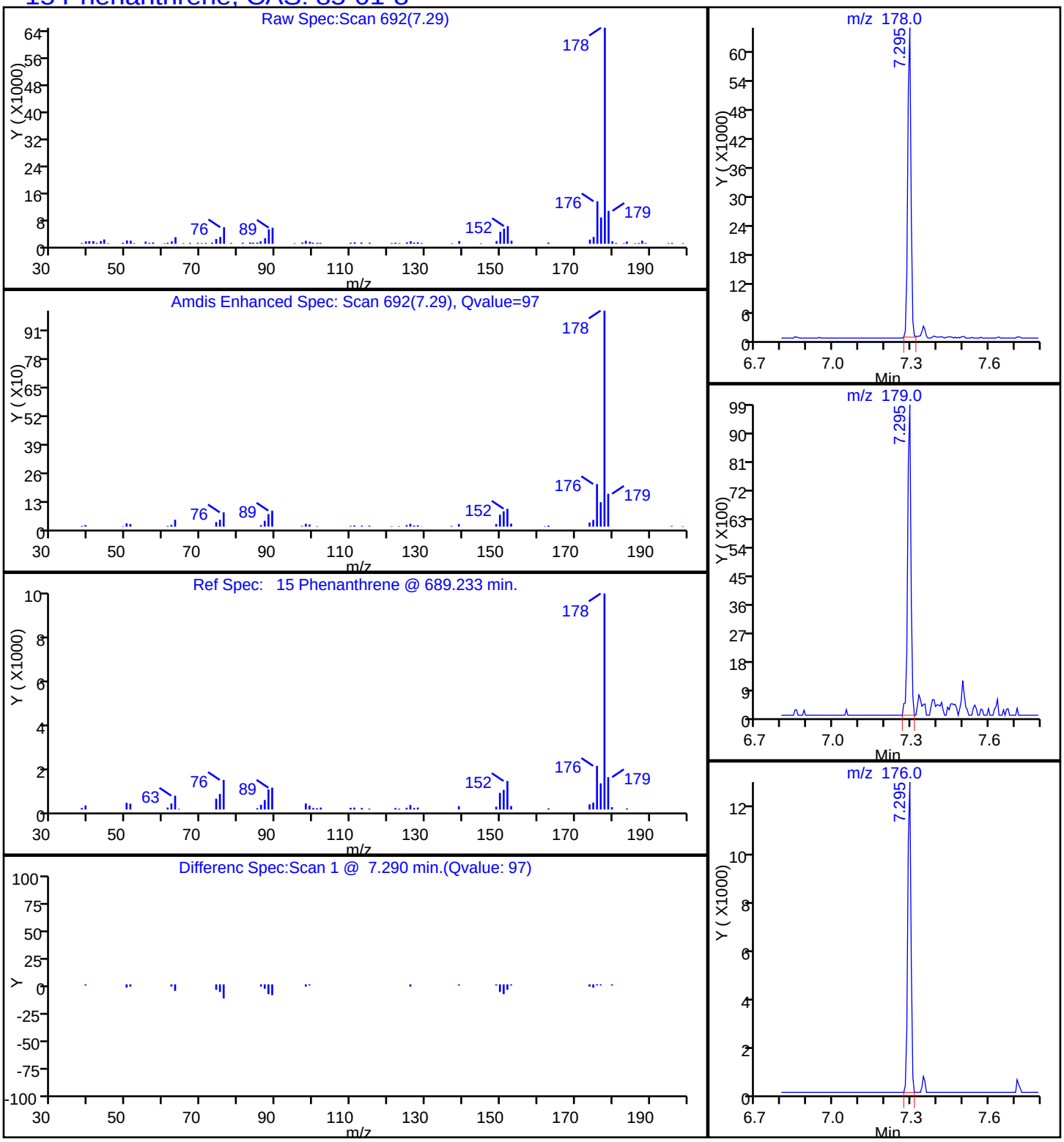


Report Date: 04-Nov-2014 09:15:17 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0322.D				
Injection Date:	03-Nov-2014 18:19:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-14-A	Lab Sample ID:	680-106803-14		
Client ID:	CV0971NN-CS24"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

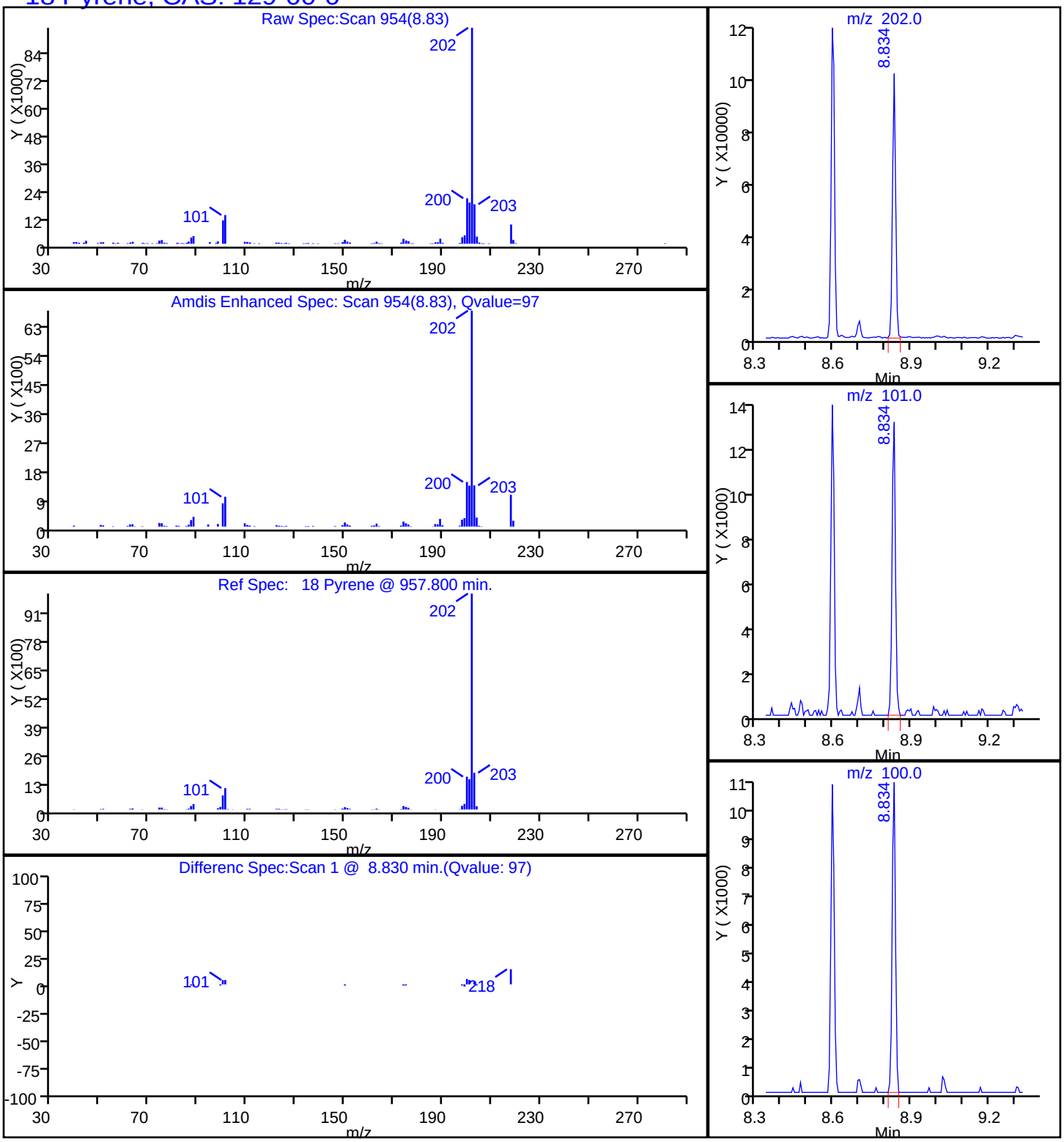


Report Date: 04-Nov-2014 09:15:17 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0322.D				
Injection Date:	03-Nov-2014 18:19:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-14-A	Lab Sample ID:	680-106803-14		
Client ID:	CV0971NN-CS24"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

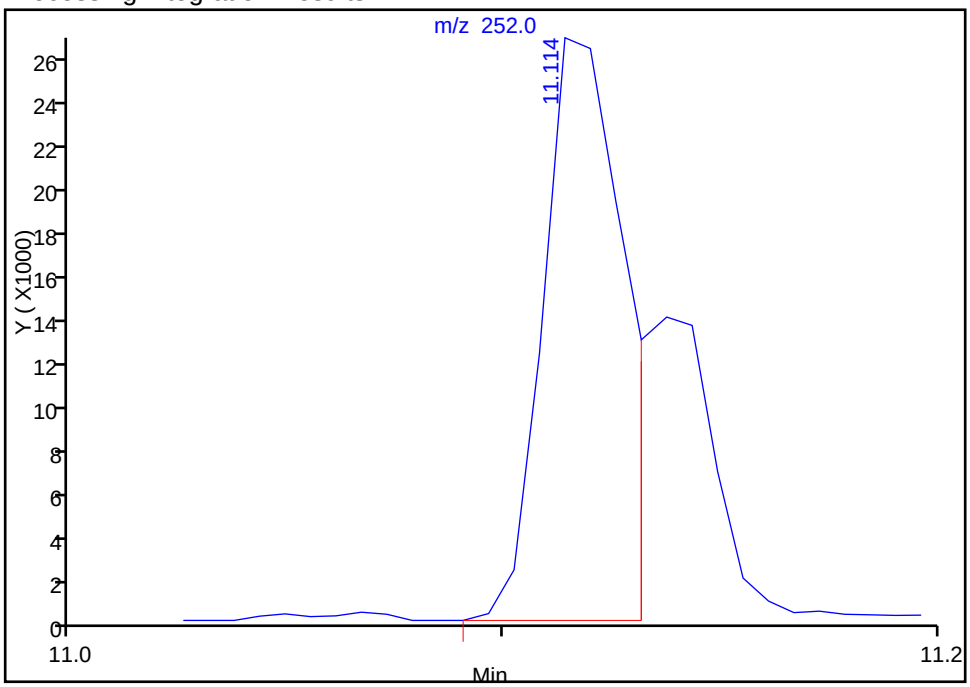
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0322.D				
Injection Date:	03-Nov-2014 18:19:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-14-A	Lab Sample ID:	680-106803-14		
Client ID:	CV0971NN-CS24"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

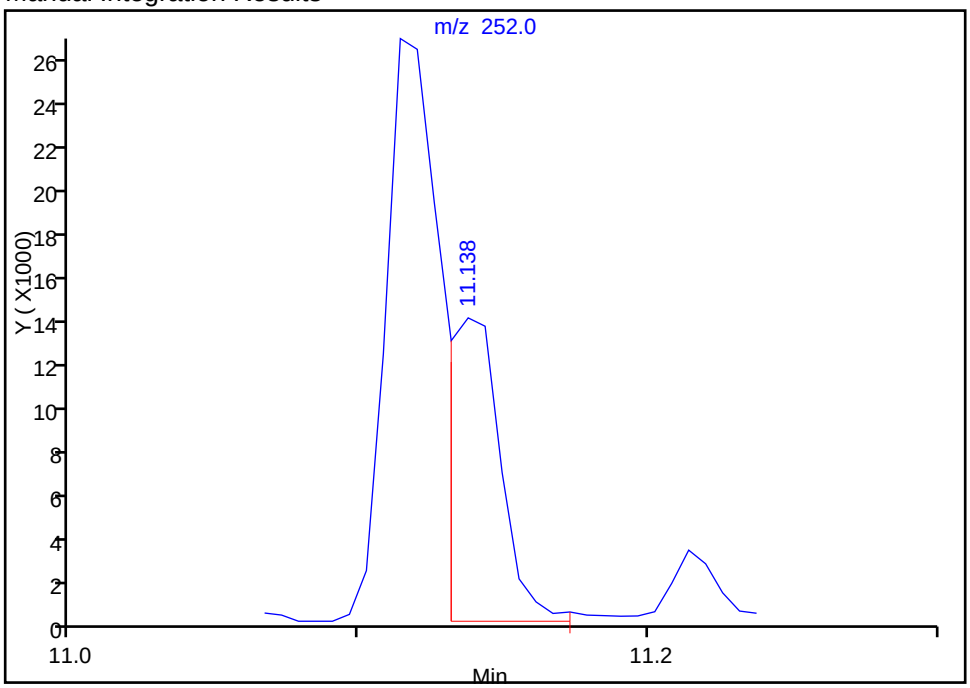
Processing Integration Results

RT: 11.11
Response: 34785
Amount: 0.444007



Manual Integration Results

RT: 11.14
Response: 17666
Amount: 0.225495



Reviewer: webbk, 04-Nov-2014 09:08:52
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971AP-GS6" | Lab Sample ID: 680-106803-15

Matrix: Solid | Lab File ID: 1KK0323.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 11:20

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.01(g) | Date Analyzed: 11/03/2014 18:42

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

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

% Moisture: 15.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	80	U	80	39
208-96-8	Acenaphthylene	80	U	80	39
120-12-7	Anthracene	80	U	80	39
56-55-3	Benzo[a]anthracene	230		80	39
50-32-8	Benzo[a]pyrene	230		80	14
205-99-2	Benzo[b]fluoranthene	400		80	39
191-24-2	Benzo[g,h,i]perylene	92		80	39
207-08-9	Benzo[k]fluoranthene	170		80	24
218-01-9	Chrysene	270		80	39
53-70-3	Dibenz(a,h)anthracene	80	U	80	39
206-44-0	Fluoranthene	400		80	39
86-73-7	Fluorene	80	U	80	39
193-39-5	Indeno[1,2,3-cd]pyrene	61	J	80	39
90-12-0	1-Methylnaphthalene	55	J	80	37
91-57-6	2-Methylnaphthalene	70	J	80	39
91-20-3	Naphthalene	48	J	80	39
85-01-8	Phenanthrene	240		80	28
129-00-0	Pyrene	360		80	39

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\20141103-14354.b\1KK0323.D
Lims ID: 680-106803-B-15-A Lab Sample ID: 680-106803-15
Client ID: CV0971AP-GS6"
Sample Type: Client
Inject. Date: 03-Nov-2014 18:42:30 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 680-106803-B-15-A 1:10
Misc. Info.: 680-0014354-023
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 04-Nov-2014 09:15:09 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 04-Nov-2014 09:09:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.893	3.893	0.000	99	419870	2.00	
* 2 Acenaphthene-d10	164	5.667	5.662	0.005	92	239073	2.00	
* 3 Phenanthrene-d10	188	7.272	7.266	0.006	98	357619	2.00	
* 4 Chrysene-d12	240	10.098	10.092	0.006	99	220143	2.00	
* 5 Perylene-d12	264	11.508	11.496	0.012	99	123992	2.00	
7 Naphthalene	128	3.917	3.911	0.006	98	28045	0.1210	
9 2-Methylnaphthalene	142	4.586	4.586	0.000	85	25273	0.1761	
8 1-Methylnaphthalene	142	4.686	4.680	0.006	92	18837	0.1387	
15 Phenanthrene	178	7.295	7.289	0.006	97	131970	0.6059	
16 Anthracene	178	7.348	7.348	0.000	97	16548	0.0808	
17 Fluoranthene	202	8.599	8.594	0.005	98	221471	1.02	
18 Pyrene	202	8.834	8.829	0.005	97	180128	0.9117	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	97	76650	0.5831	
20 Chrysene	228	10.121	10.115	0.006	98	85811	0.6916	
21 Benzo[b]fluoranthene	252	11.126	11.114	0.012	97	81489	1.02	
22 Benzo[k]fluoranthene	252	11.144	11.138	0.006	97	35419	0.4268	M
23 Benzo[a]pyrene	252	11.443	11.437	0.006	97	40452	0.5779	
24 Indeno[1,2,3-cd]pyrene	276	12.777	12.765	0.012	98	18562	0.1547	
25 Dibenz(a,h)anthracene	278	12.800	12.795	0.005	94	5914	0.0910	
26 Benzo[g,h,i]perylene	276	13.153	13.141	0.012	98	16512	0.2325	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

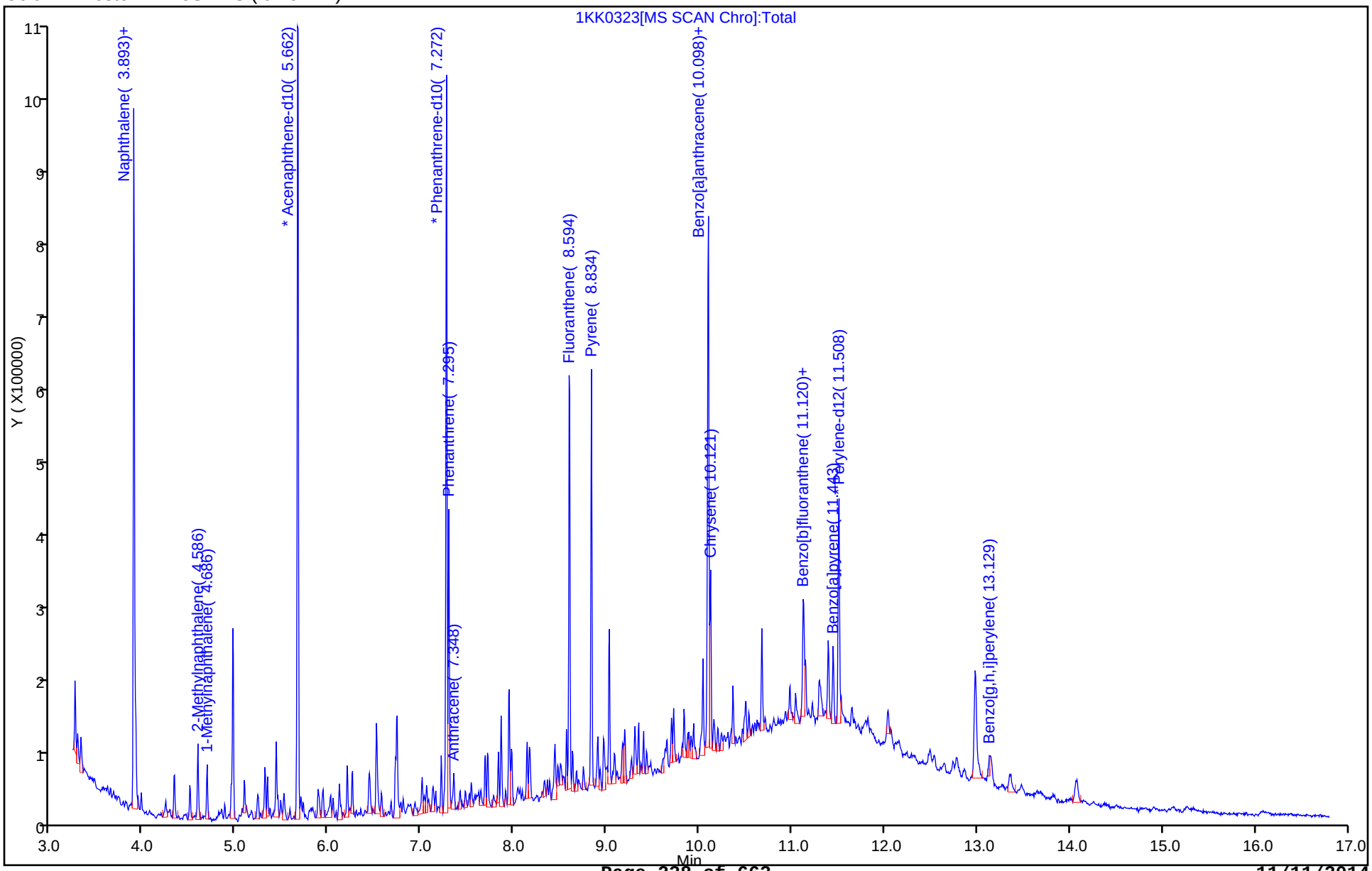
SM-LLISTD_00110 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 04-Nov-2014 09:15:15 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0323.D				
Injection Date:	03-Nov-2014 18:42:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-15-A	Lab Sample ID:	680-106803-15	Worklist Smp#:	23
Client ID:	CV0971AP-GS6"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	23
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

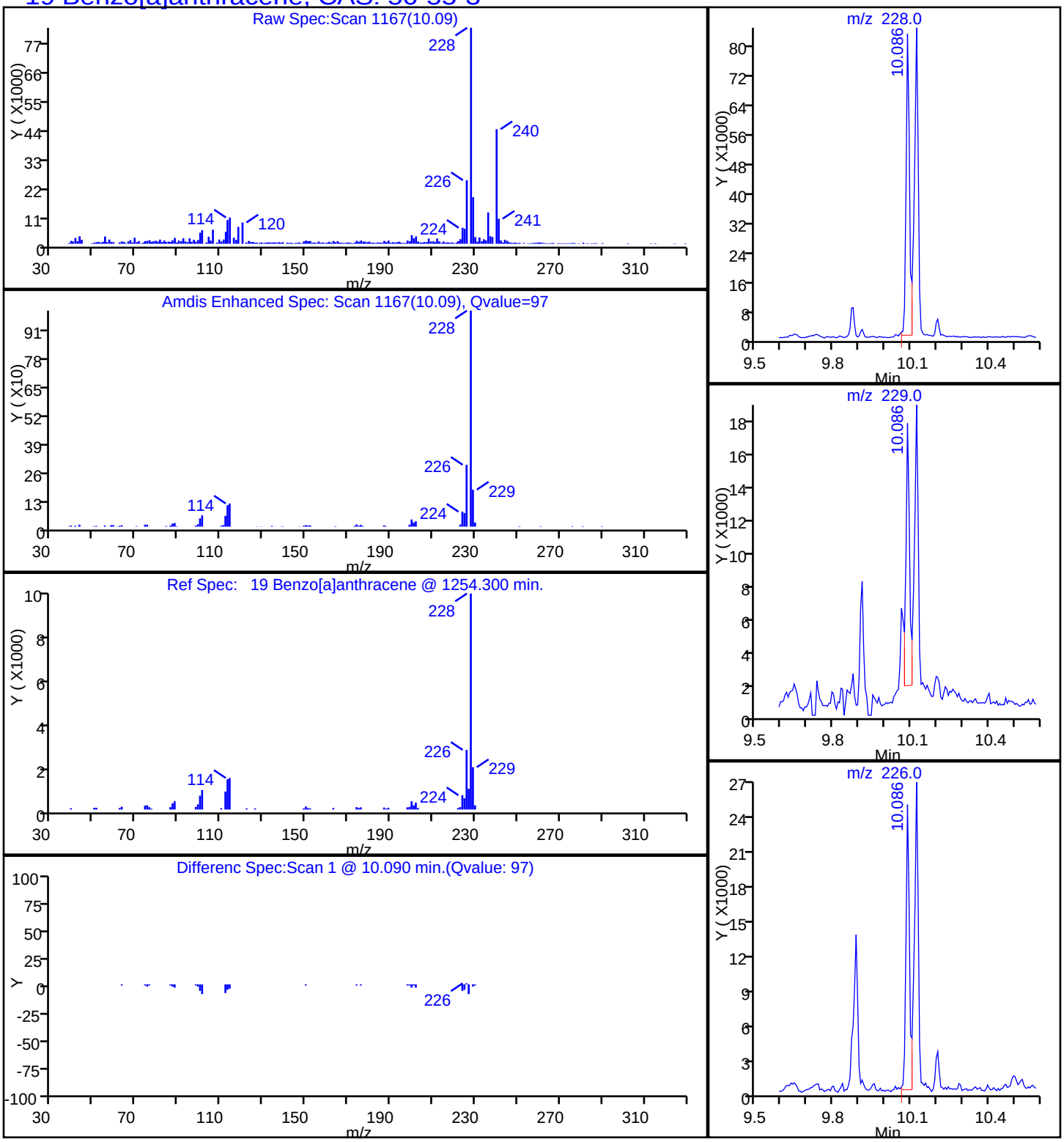


Report Date: 04-Nov-2014 09:15:15 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0323.D				
Injection Date:	03-Nov-2014 18:42:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-15-A	Lab Sample ID:	680-106803-15		
Client ID:	CV0971AP-GS6"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

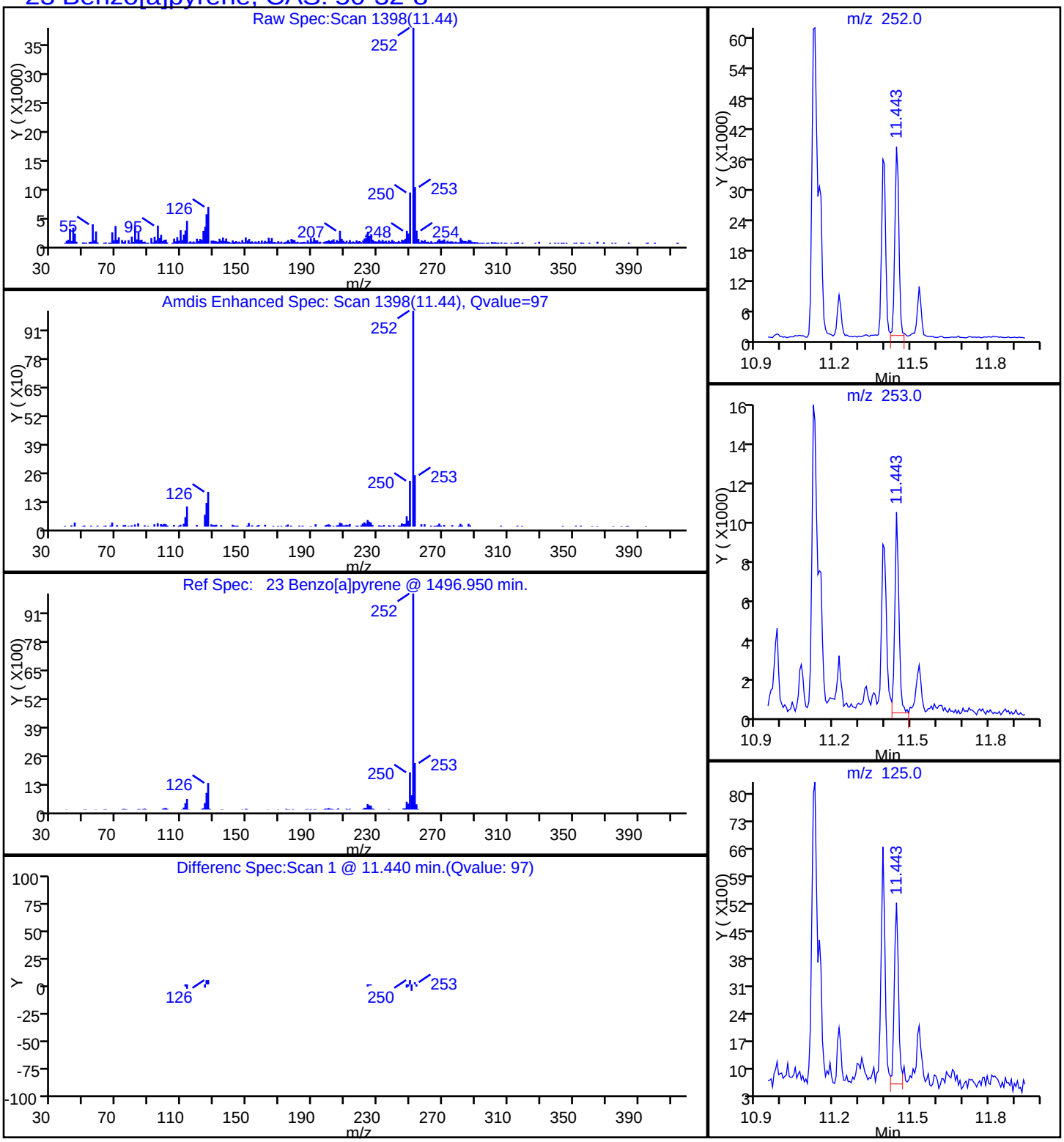


Report Date: 04-Nov-2014 09:15:16 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0323.D				
Injection Date:	03-Nov-2014 18:42:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-15-A	Lab Sample ID:	680-106803-15		
Client ID:	CV0971AP-GS6"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

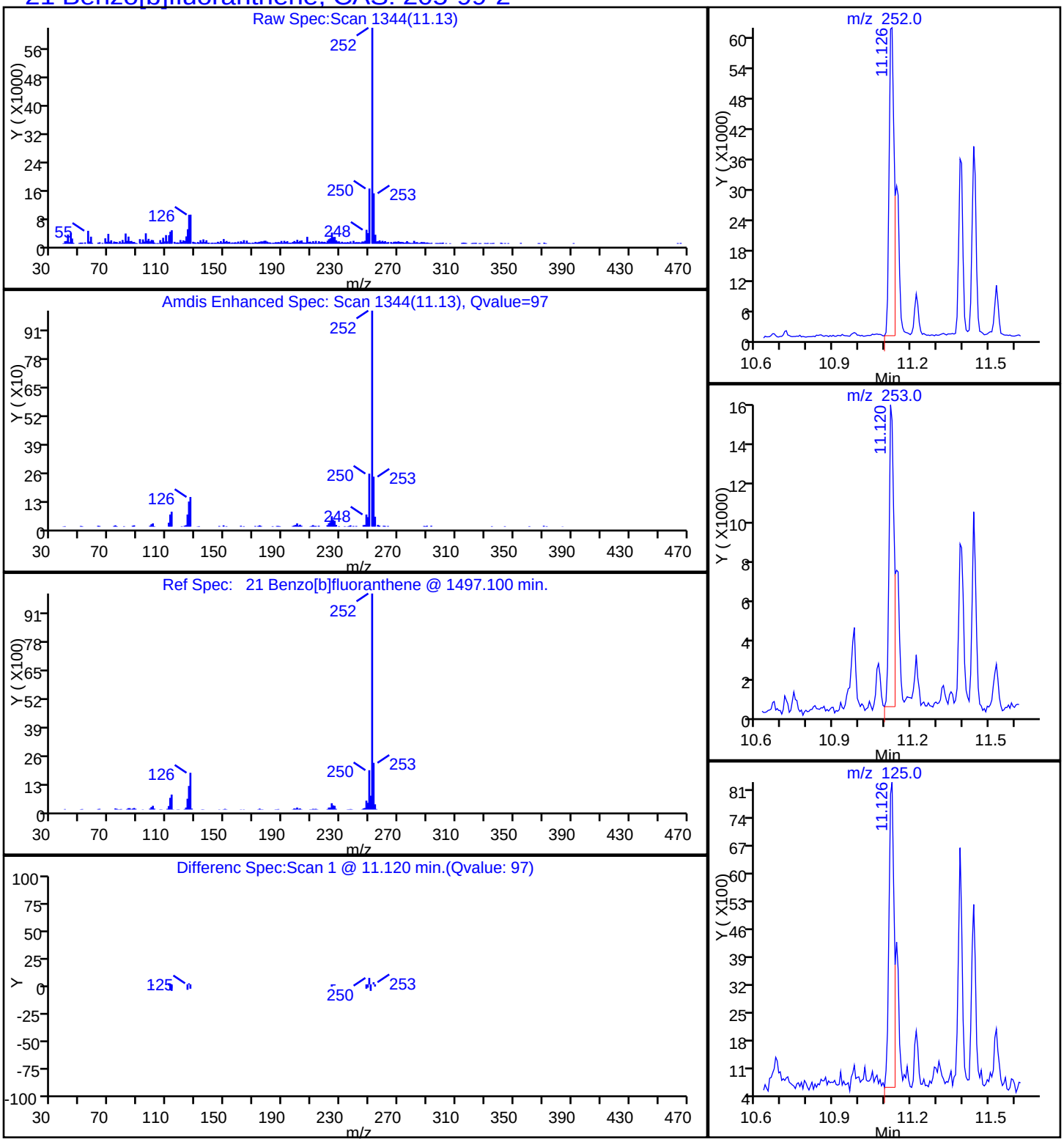


Report Date: 04-Nov-2014 09:15:15 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0323.D				
Injection Date:	03-Nov-2014 18:42:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-15-A	Lab Sample ID:	680-106803-15		
Client ID:	CV0971AP-GS6"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

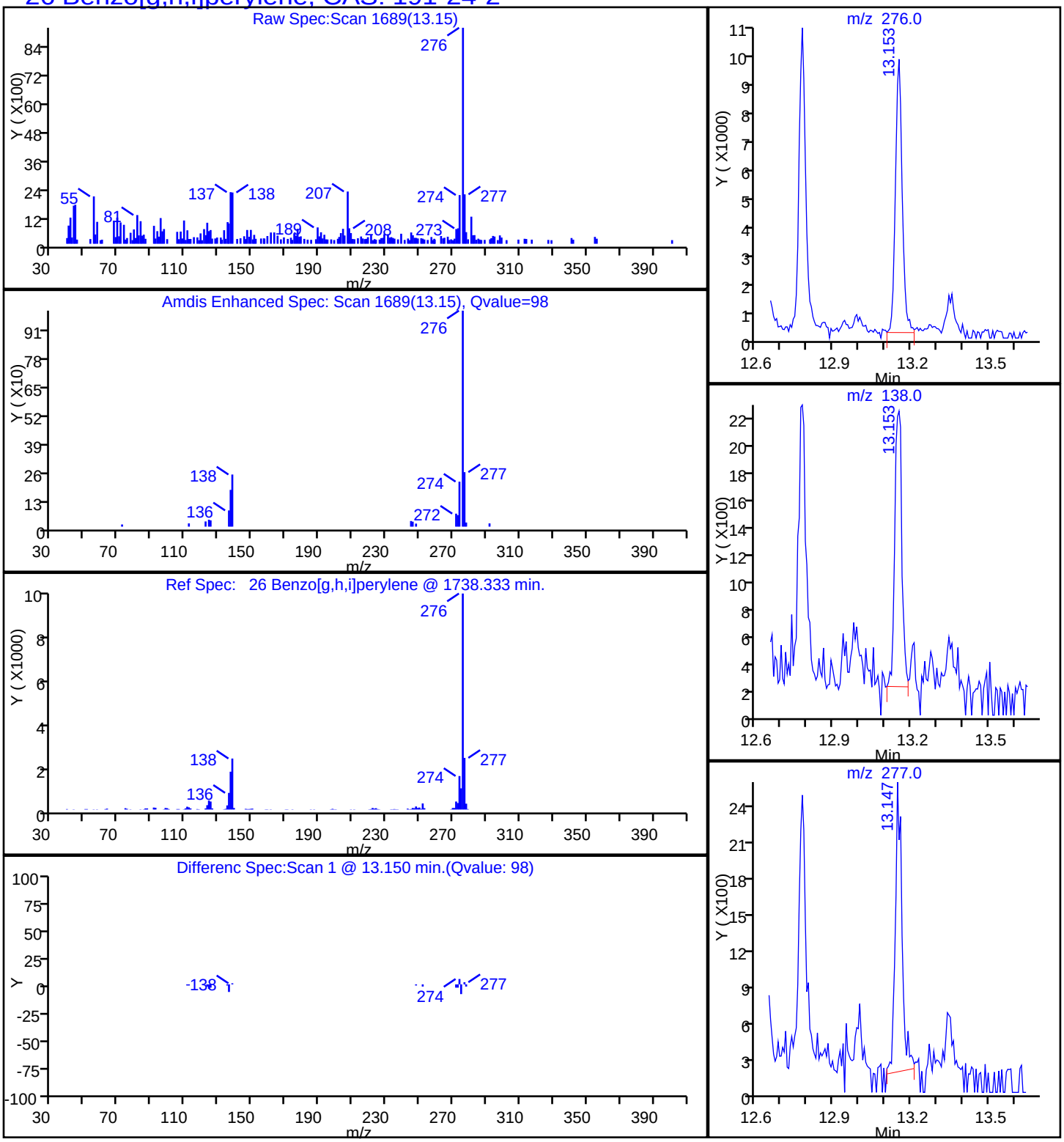


Report Date: 04-Nov-2014 09:15:16 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0323.D				
Injection Date:	03-Nov-2014 18:42:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-15-A	Lab Sample ID:	680-106803-15		
Client ID:	CV0971AP-GS6"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

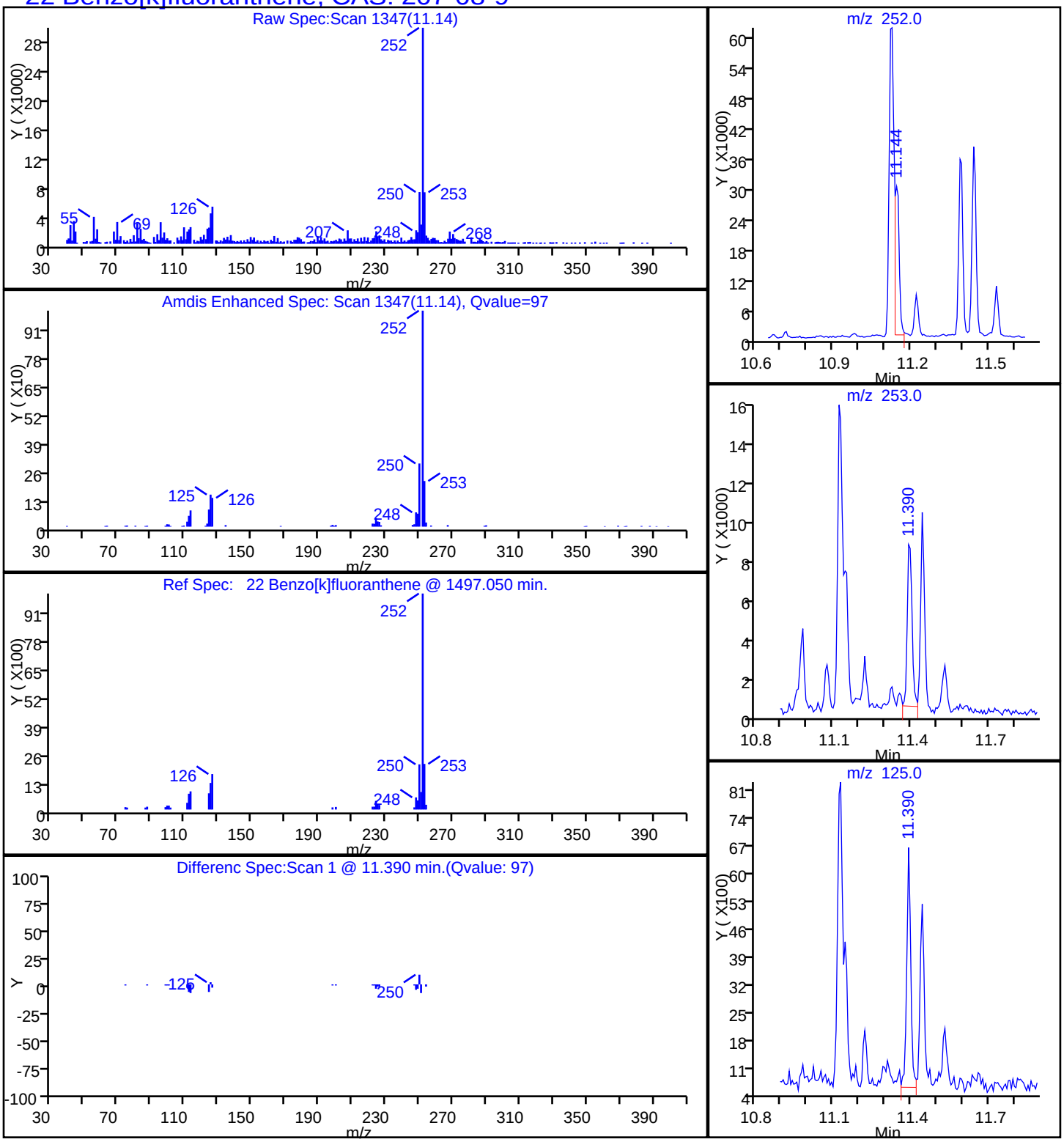


Report Date: 04-Nov-2014 09:15:15 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0323.D				
Injection Date:	03-Nov-2014 18:42:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-15-A	Lab Sample ID:	680-106803-15		
Client ID:	CV0971AP-GS6"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

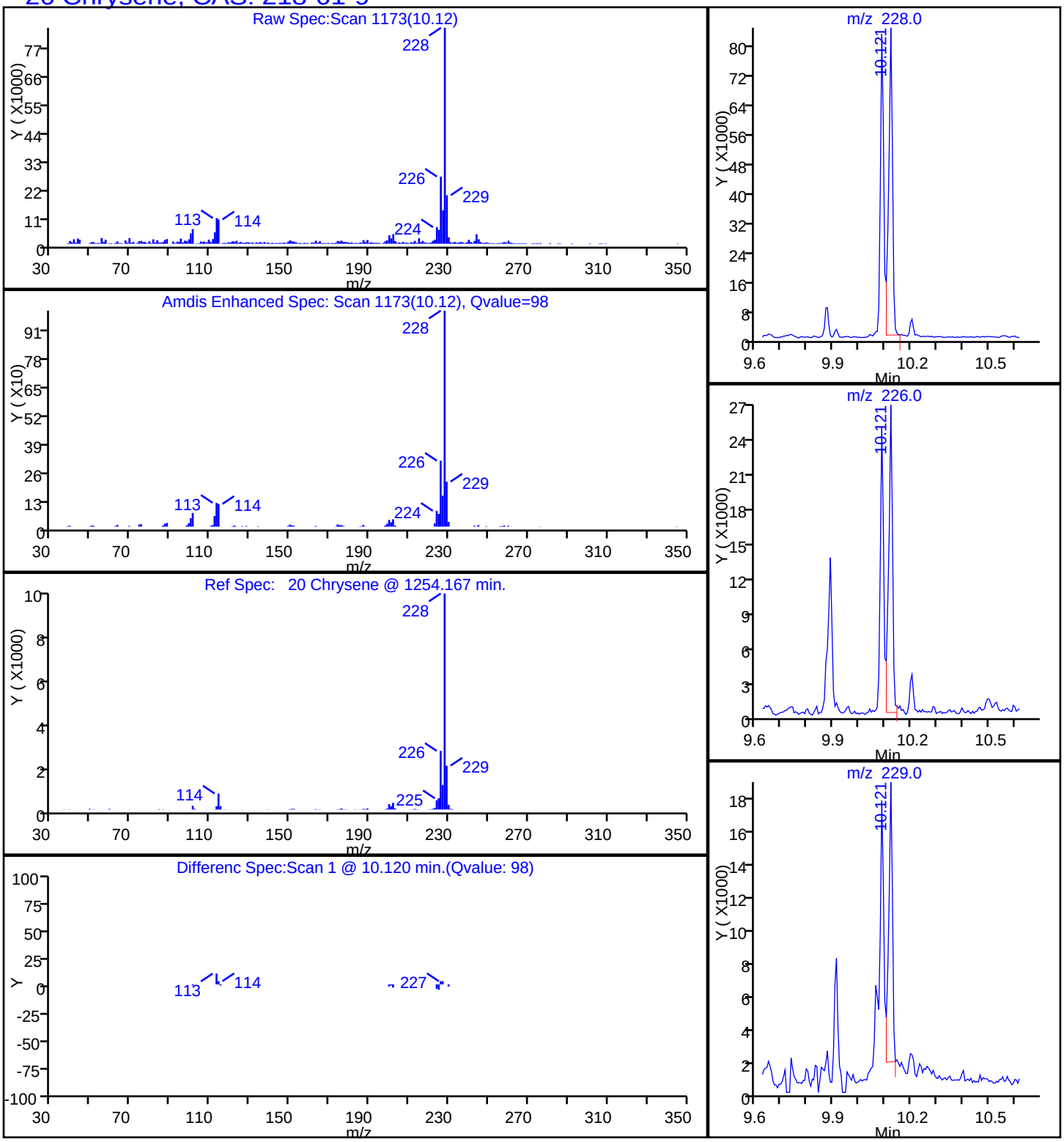


Report Date: 04-Nov-2014 09:15:15 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0323.D				
Injection Date:	03-Nov-2014 18:42:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-15-A	Lab Sample ID:	680-106803-15		
Client ID:	CV0971AP-GS6"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

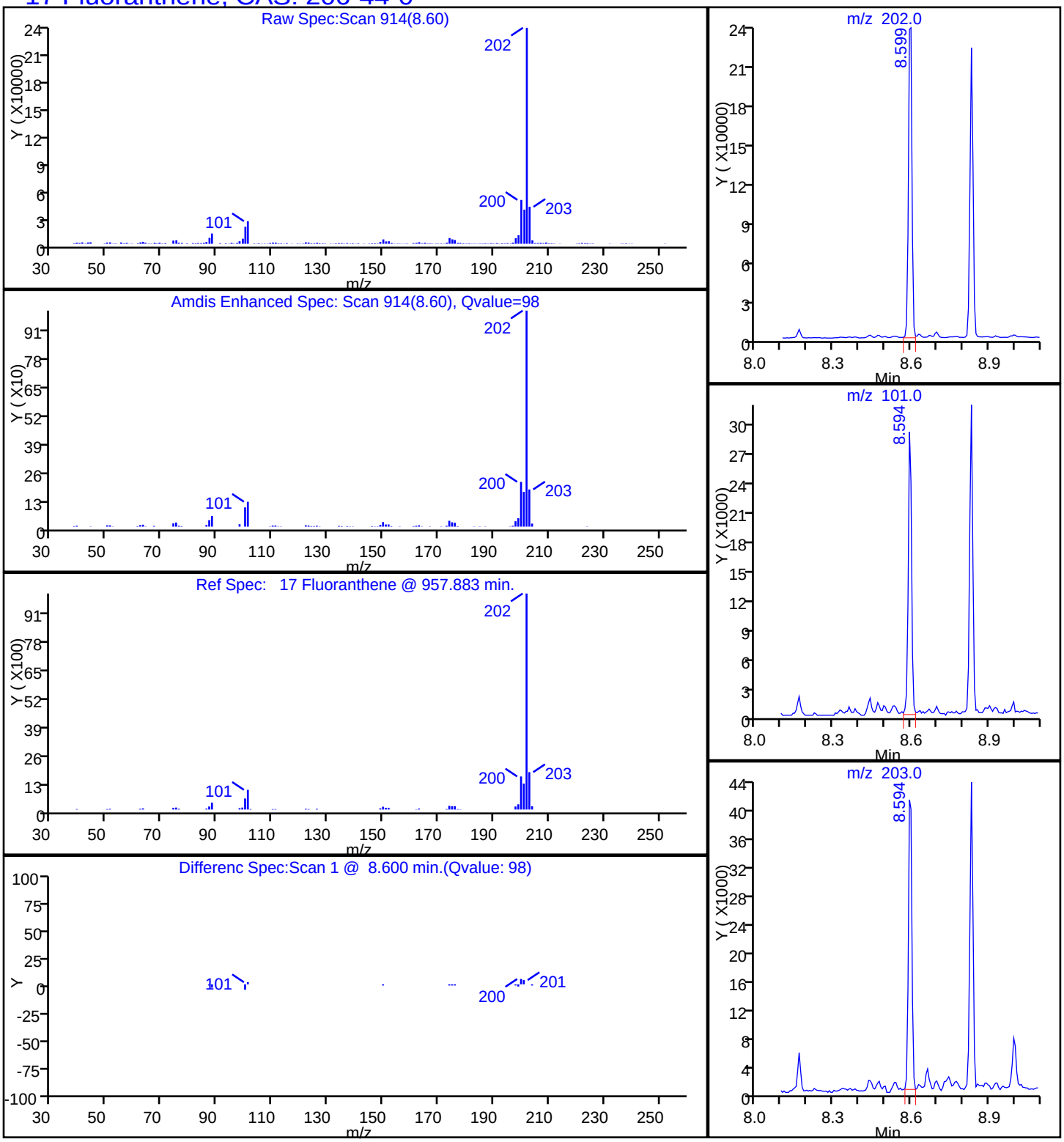


Report Date: 04-Nov-2014 09:15:15 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0323.D				
Injection Date:	03-Nov-2014 18:42:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-15-A	Lab Sample ID:	680-106803-15		
Client ID:	CV0971AP-GS6"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

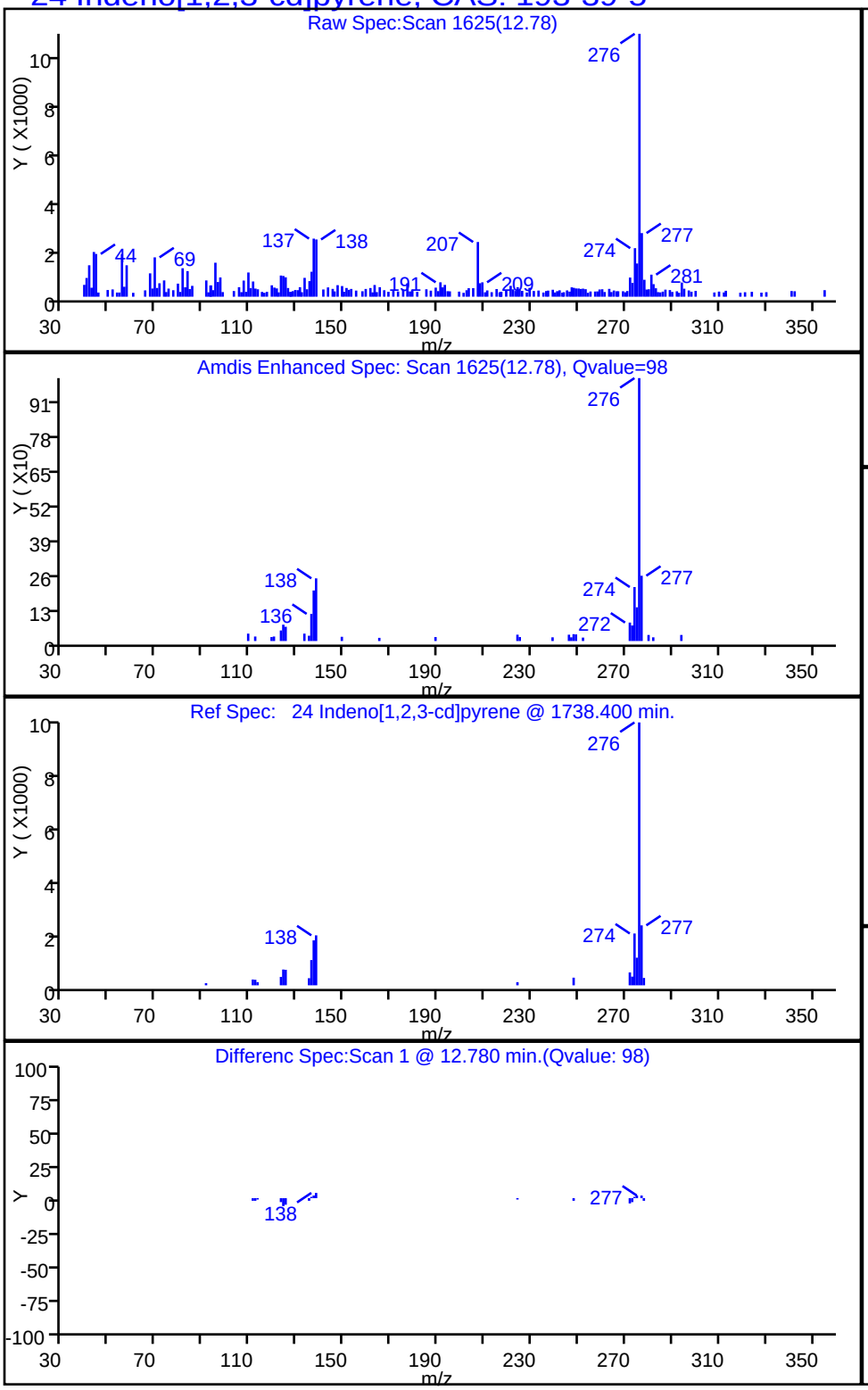


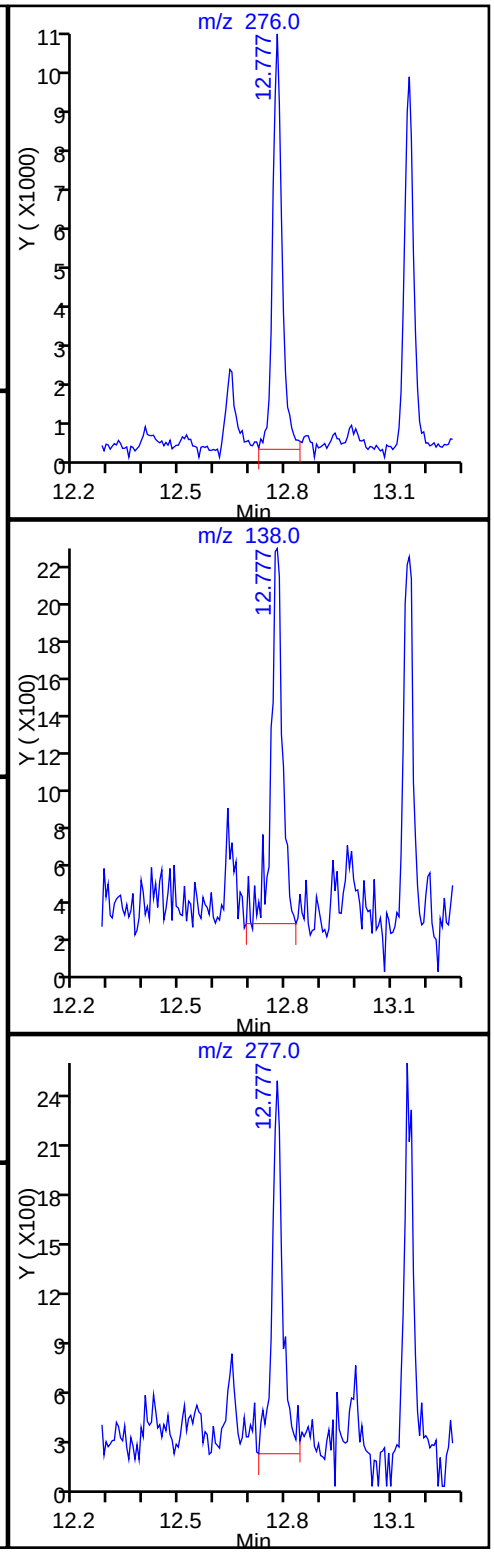
Report Date: 04-Nov-2014 09:15:16 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0323.D				
Injection Date:	03-Nov-2014 18:42:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-15-A	Lab Sample ID:	680-106803-15		
Client ID:	CV0971AP-GS6"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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



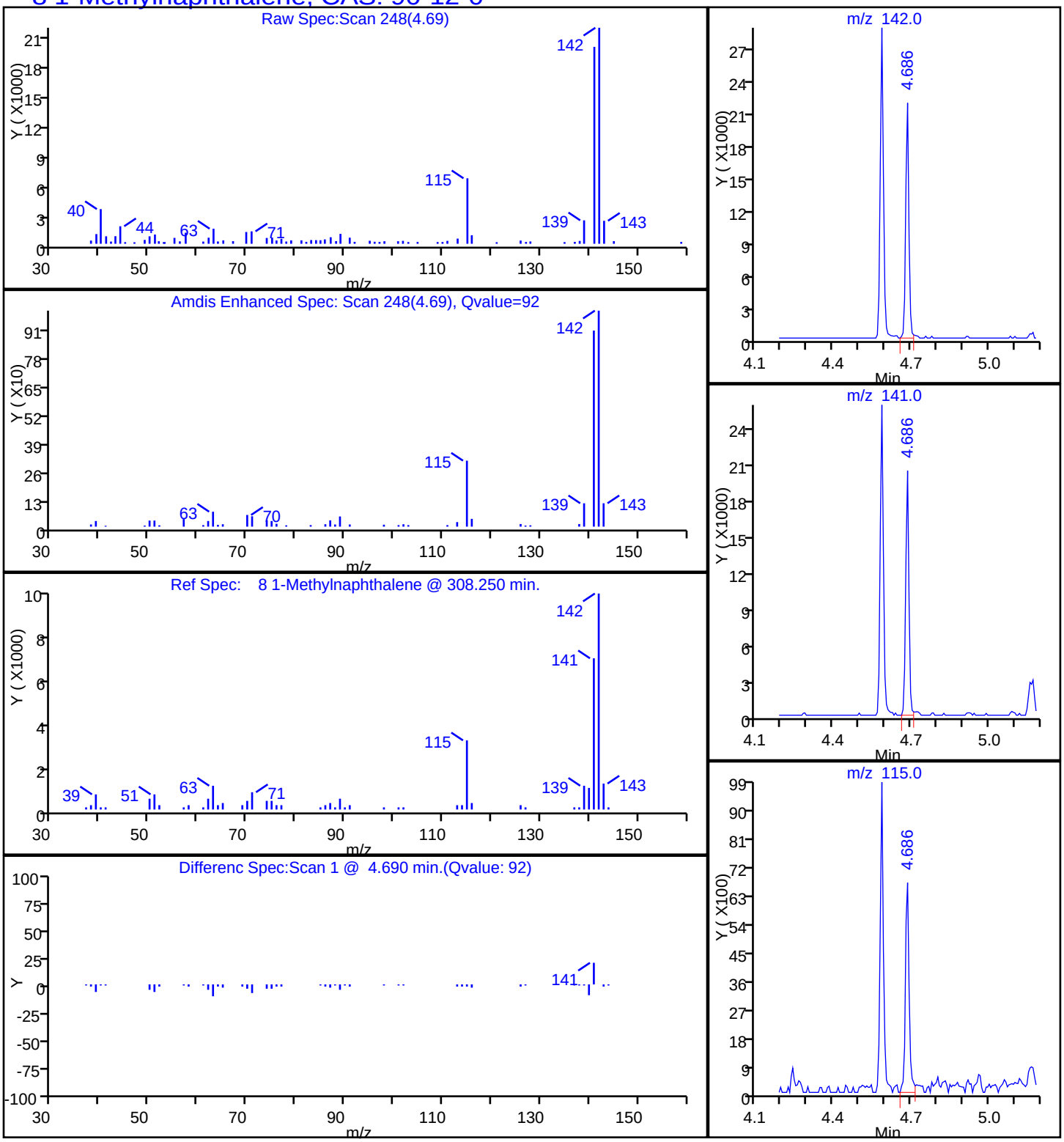


Report Date: 04-Nov-2014 09:15:15 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0323.D				
Injection Date:	03-Nov-2014 18:42:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-15-A	Lab Sample ID:	680-106803-15		
Client ID:	CV0971AP-GS6"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

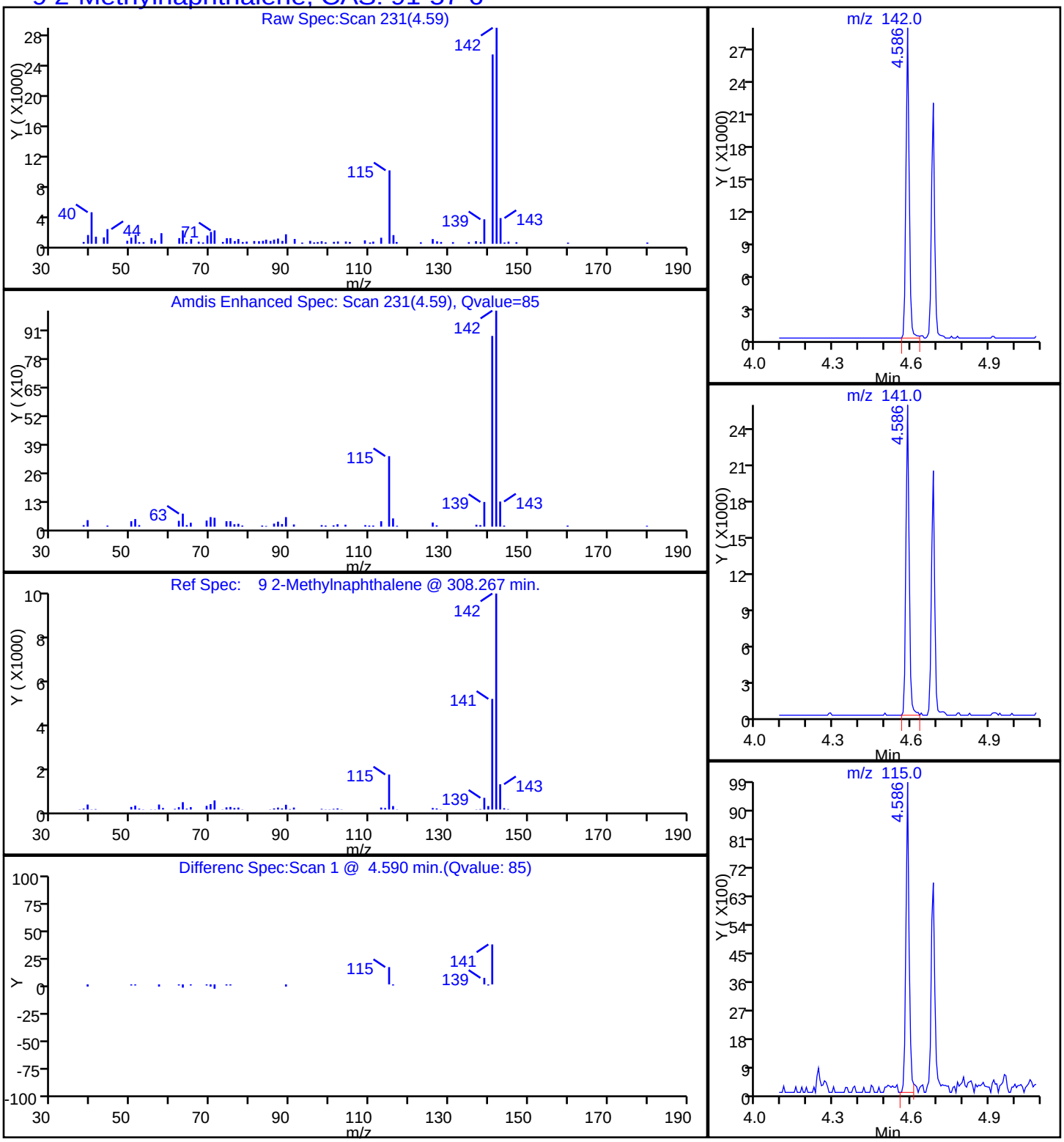


Report Date: 04-Nov-2014 09:15:15 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0323.D				
Injection Date:	03-Nov-2014 18:42:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-15-A	Lab Sample ID:	680-106803-15		
Client ID:	CV0971AP-GS6"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

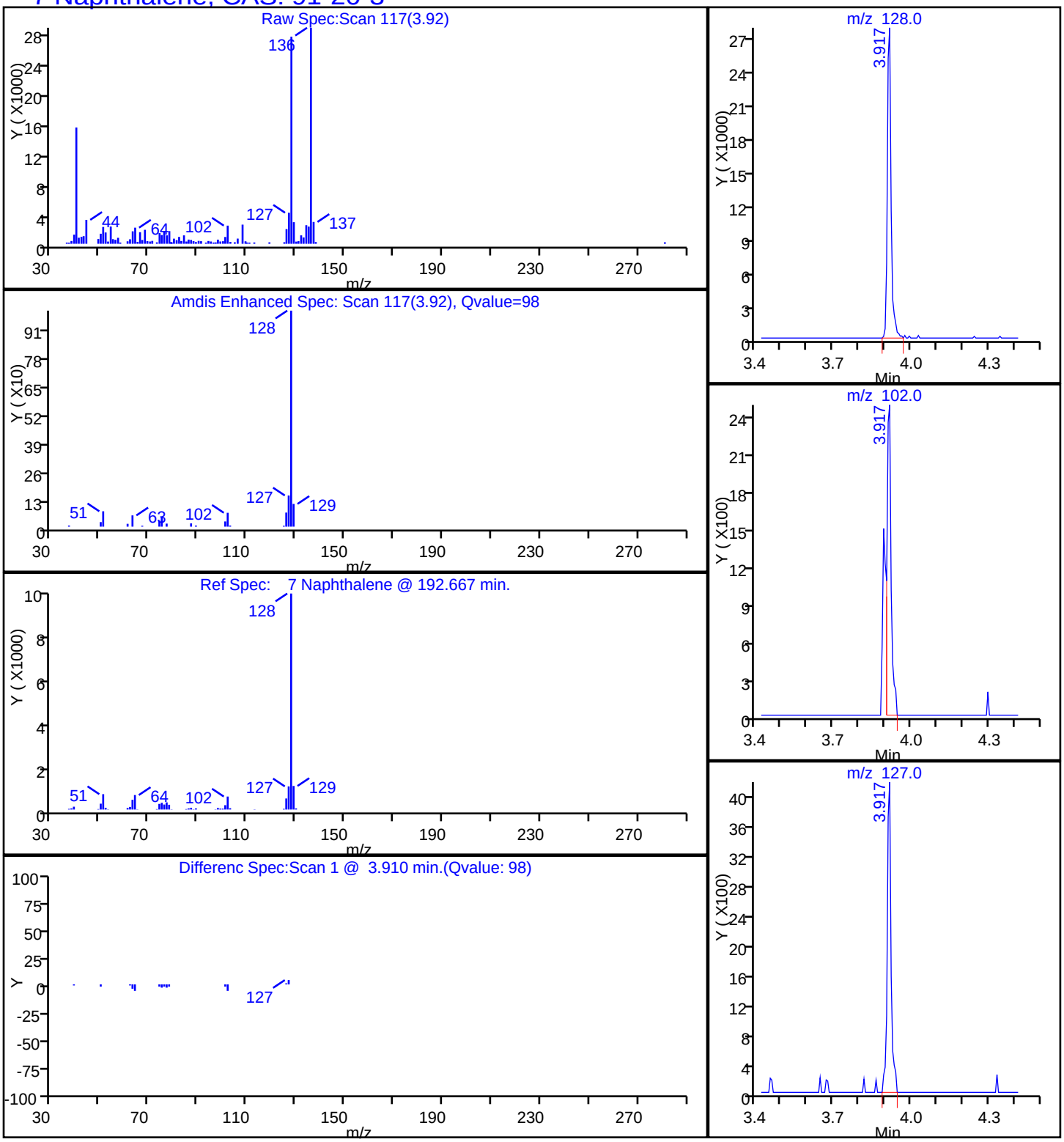


Report Date: 04-Nov-2014 09:15:15 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0323.D				
Injection Date:	03-Nov-2014 18:42:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-15-A	Lab Sample ID:	680-106803-15		
Client ID:	CV0971AP-GS6"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

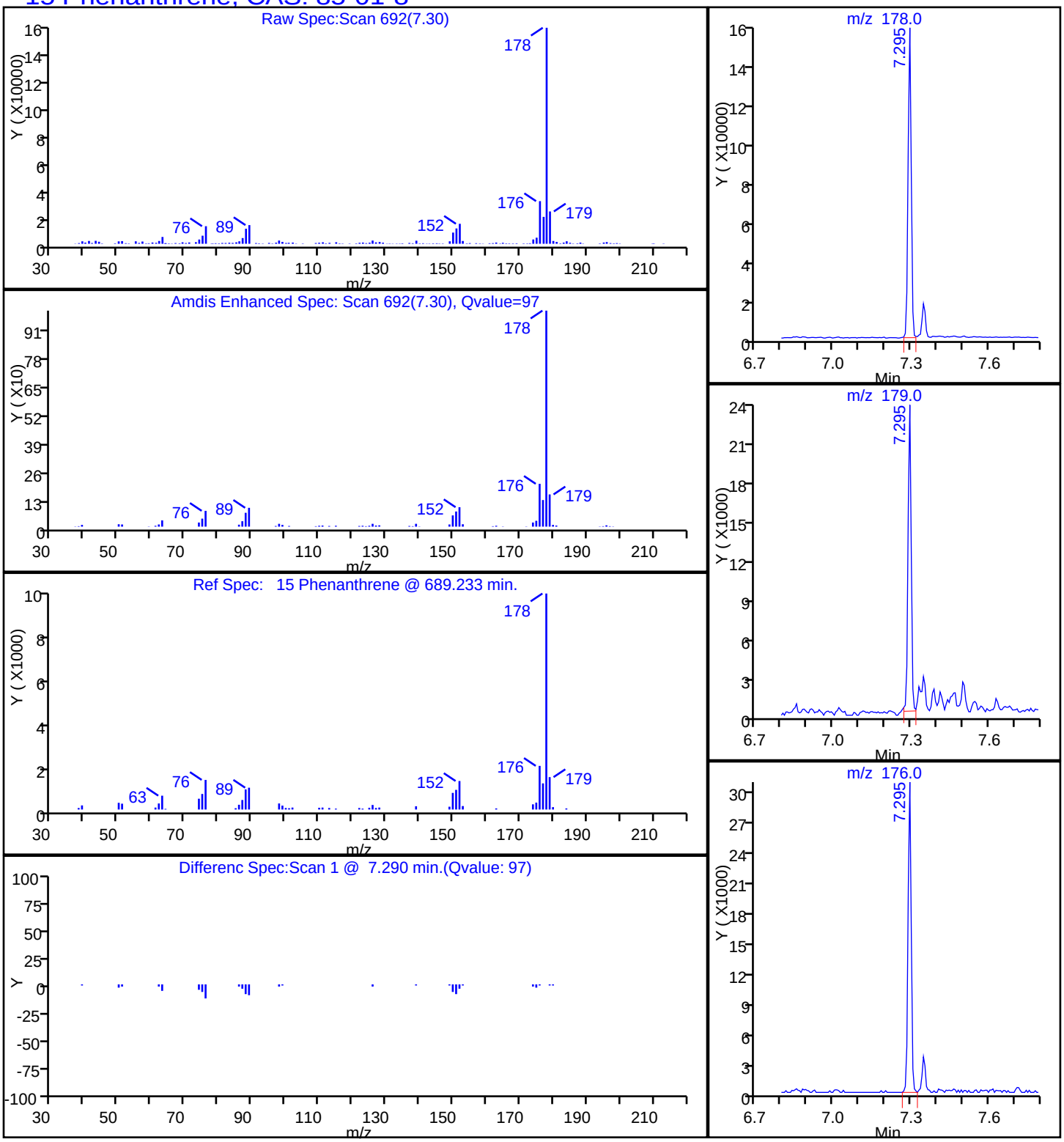


Report Date: 04-Nov-2014 09:15:15 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0323.D				
Injection Date:	03-Nov-2014 18:42:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-15-A	Lab Sample ID:	680-106803-15		
Client ID:	CV0971AP-GS6"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

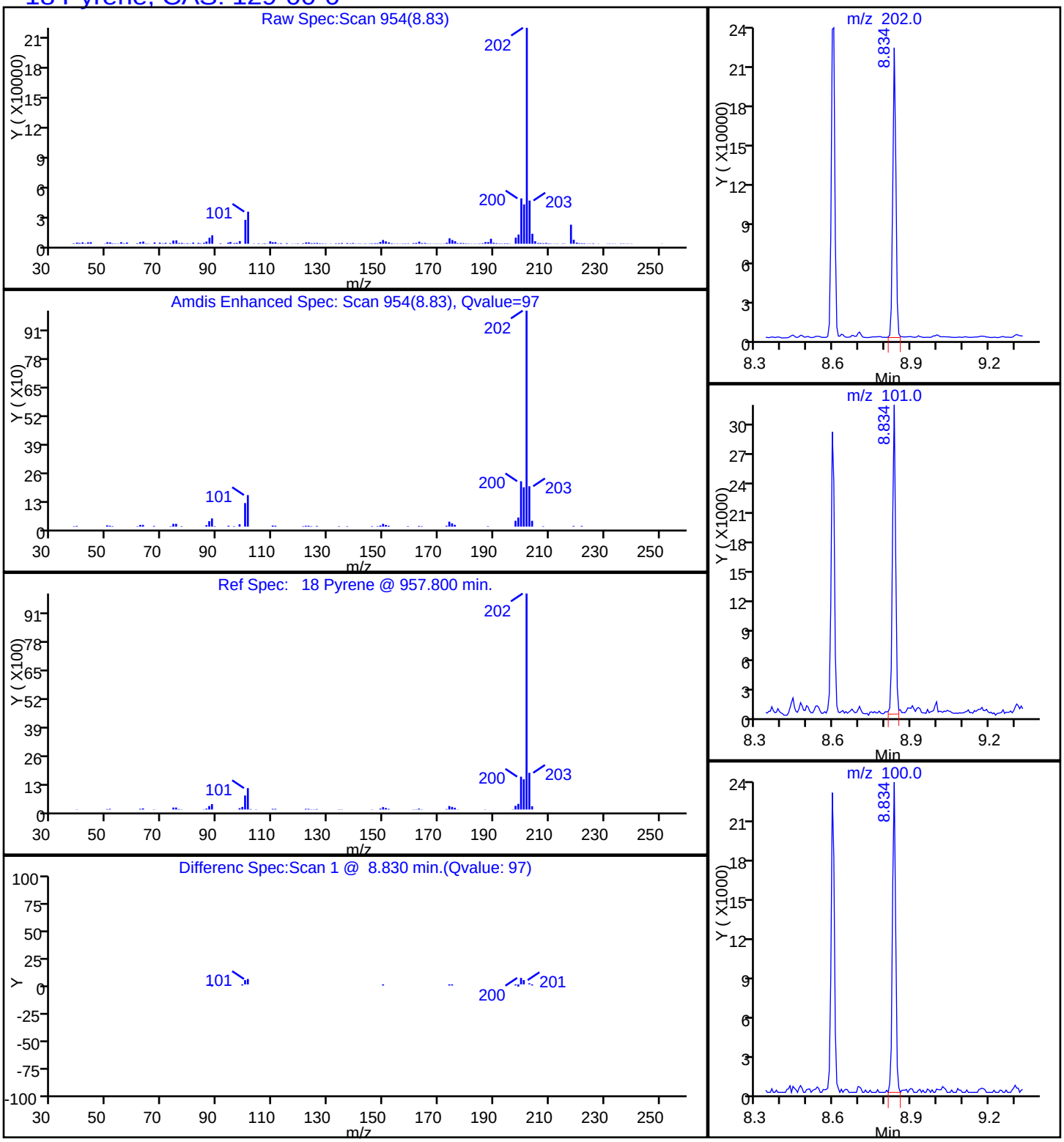


Report Date: 04-Nov-2014 09:15:15 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0323.D				
Injection Date:	03-Nov-2014 18:42:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-15-A	Lab Sample ID:	680-106803-15		
Client ID:	CV0971AP-GS6"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

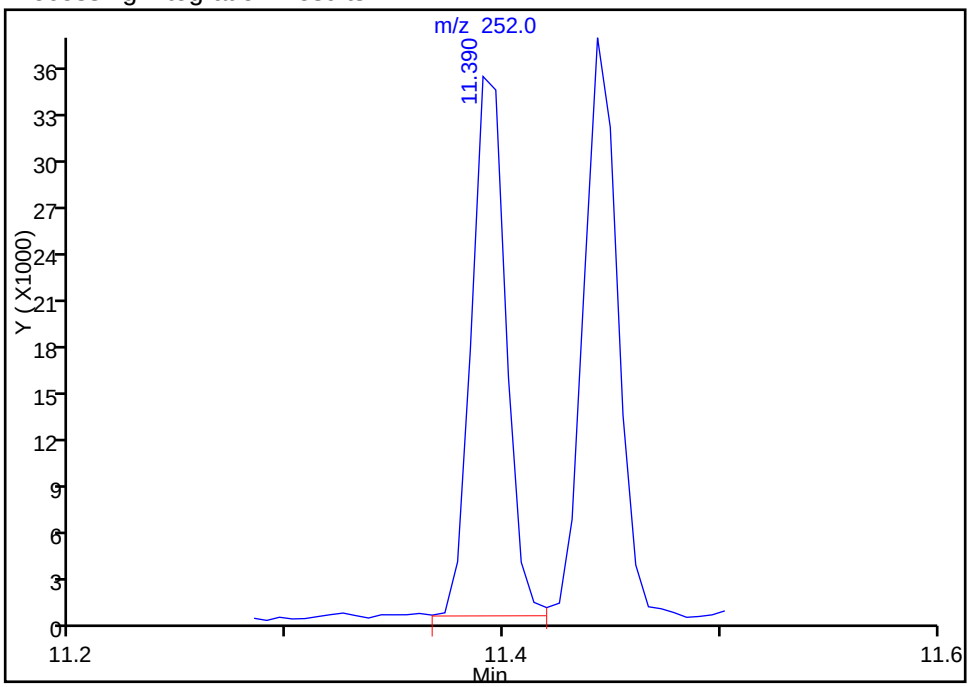
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0323.D				
Injection Date:	03-Nov-2014 18:42:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-15-A	Lab Sample ID:	680-106803-15		
Client ID:	CV0971AP-GS6"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

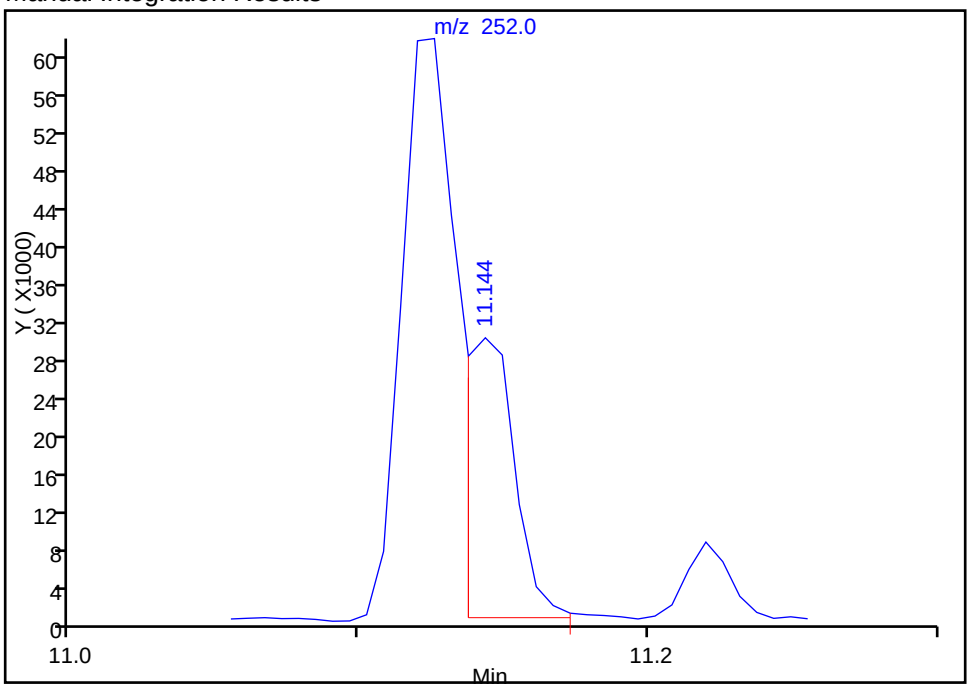
Processing Integration Results

RT: 11.39
Response: 38427
Amount: 0.462994



Manual Integration Results

RT: 11.14
Response: 35419
Amount: 0.426751



Reviewer: webbk, 04-Nov-2014 09:09:19
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971AP-GS12" | Lab Sample ID: 680-106803-16

Matrix: Solid | Lab File ID: 1KK0324.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 11:35

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.01(g) | Date Analyzed: 11/03/2014 19:05

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

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

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

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	83	U	83	41
208-96-8	Acenaphthylene	83	U	83	41
120-12-7	Anthracene	110		83	41
56-55-3	Benzo[a]anthracene	470		83	41
50-32-8	Benzo[a]pyrene	470		83	15
205-99-2	Benzo[b]fluoranthene	830		83	41
191-24-2	Benzo[g,h,i]perylene	190		83	41
207-08-9	Benzo[k]fluoranthene	290		83	25
218-01-9	Chrysene	530		83	41
53-70-3	Dibenz(a,h)anthracene	68	J	83	41
206-44-0	Fluoranthene	870		83	41
86-73-7	Fluorene	47	J	83	41
193-39-5	Indeno[1,2,3-cd]pyrene	110		83	41
90-12-0	1-Methylnaphthalene	110		83	38
91-57-6	2-Methylnaphthalene	120		83	41
91-20-3	Naphthalene	120		83	41
85-01-8	Phenanthrene	590		83	30
129-00-0	Pyrene	690		83	41

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\20141103-14354.b\1KK0324.D
Lims ID: 680-106803-B-16-A Lab Sample ID: 680-106803-16
Client ID: CV0971AP-GS12"
Sample Type: Client
Inject. Date: 03-Nov-2014 19:05:30 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 680-106803-B-16-A 1:10
Misc. Info.: 680-0014354-024
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 04-Nov-2014 09:15:09 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 04-Nov-2014 09:10:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.893	3.893	0.000	99	386241	2.00	
* 2 Acenaphthene-d10	164	5.668	5.662	0.006	92	210925	2.00	
* 3 Phenanthrene-d10	188	7.272	7.266	0.006	98	309912	2.00	
* 4 Chrysene-d12	240	10.098	10.092	0.006	99	217579	2.00	
* 5 Perylene-d12	264	11.508	11.496	0.012	99	112523	2.00	
7 Naphthalene	128	3.917	3.911	0.006	99	61104	0.2865	
9 2-Methylnaphthalene	142	4.587	4.586	0.001	86	39434	0.2987	
8 1-Methylnaphthalene	142	4.686	4.680	0.006	93	34126	0.2731	
12 Acenaphthene	153	5.697	5.697	0.000	96	11029	0.0807	
14 Fluorene	166	6.255	6.249	0.006	93	14771	0.1139	
15 Phenanthrene	178	7.295	7.289	0.006	97	272369	1.44	
16 Anthracene	178	7.348	7.348	0.000	99	46861	0.2640	
17 Fluoranthene	202	8.600	8.594	0.006	98	397116	2.10	
18 Pyrene	202	8.835	8.829	0.006	97	326764	1.67	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	97	147497	1.14	
20 Chrysene	228	10.121	10.115	0.006	98	157983	1.29	
21 Benzo[b]fluoranthene	252	11.126	11.114	0.012	98	146791	2.02	M
22 Benzo[k]fluoranthene	252	11.150	11.138	0.012	96	52421	0.6960	M
23 Benzo[a]pyrene	252	11.449	11.437	0.012	97	72481	1.14	
24 Indeno[1,2,3-cd]pyrene	276	12.783	12.765	0.018	98	31261	0.2636	
25 Dibenz(a,h)anthracene	278	12.806	12.795	0.011	94	9671	0.1640	
26 Benzo[g,h,i]perylene	276	13.153	13.141	0.012	98	29261	0.4539	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

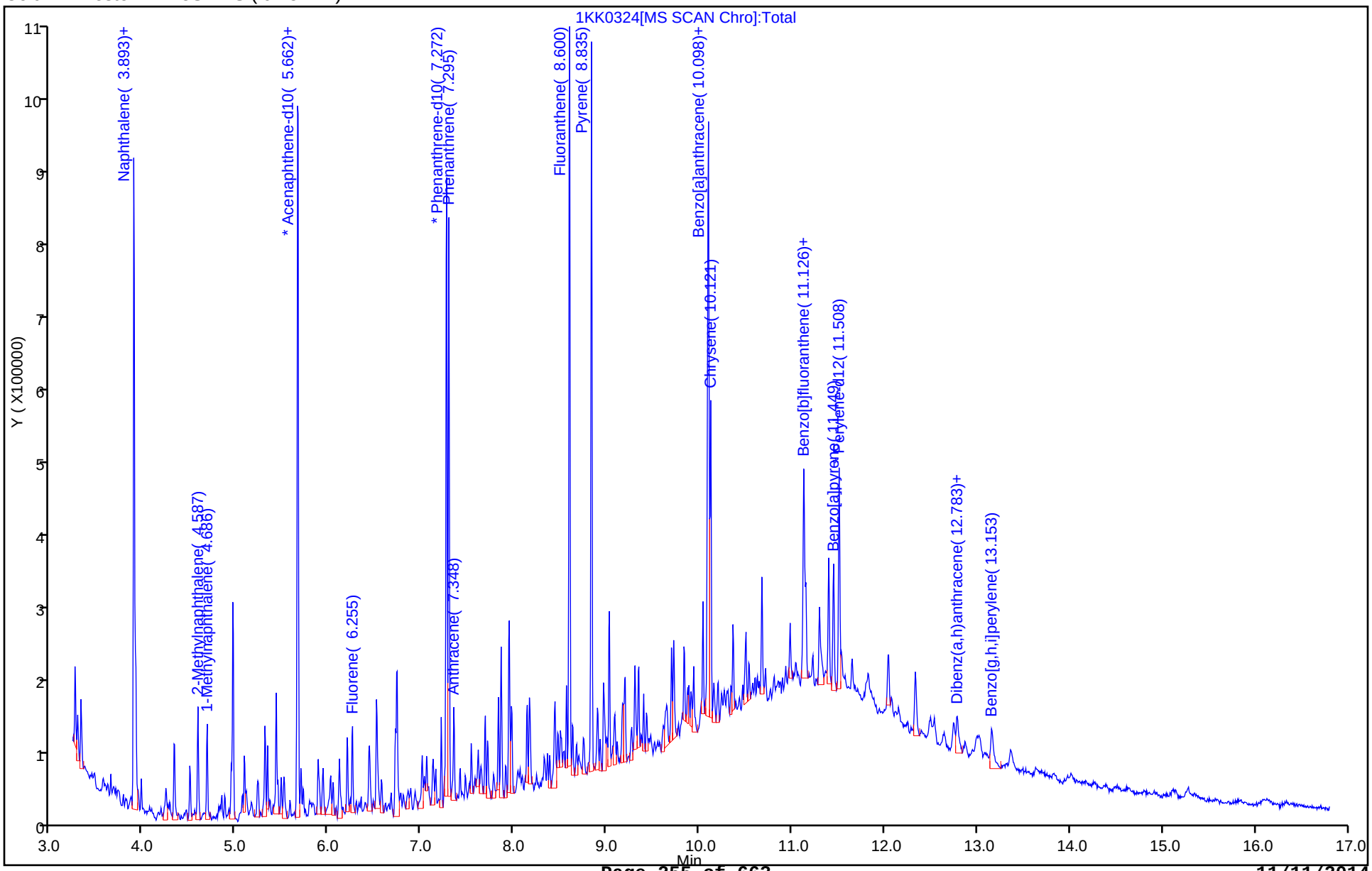
SM-LLISTD_00110 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 04-Nov-2014 09:15:14 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16	Worklist Smp#:	24
Client ID:	CV0971AP-GS12"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	24
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

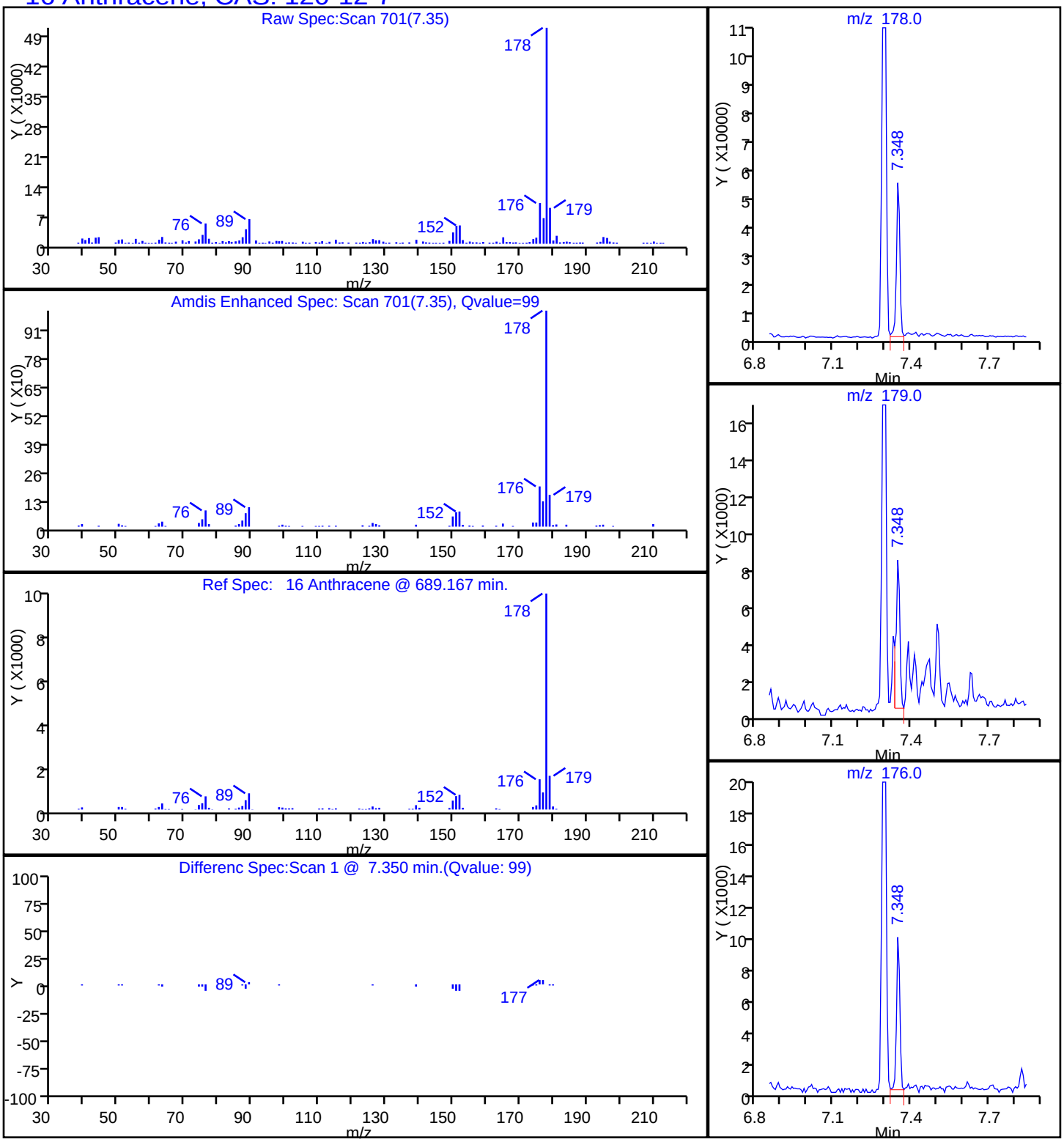


Report Date: 04-Nov-2014 09:15:14 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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



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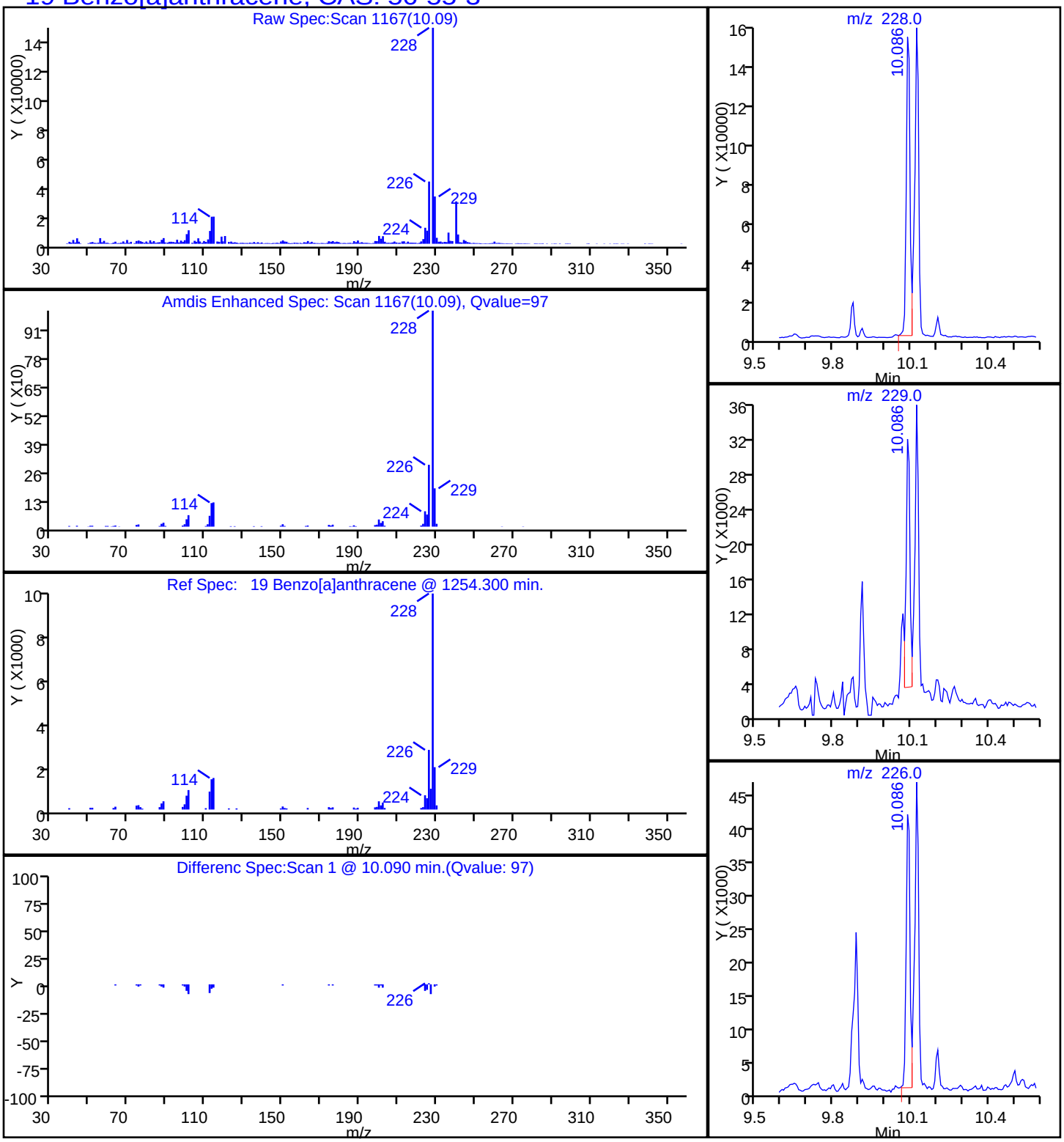
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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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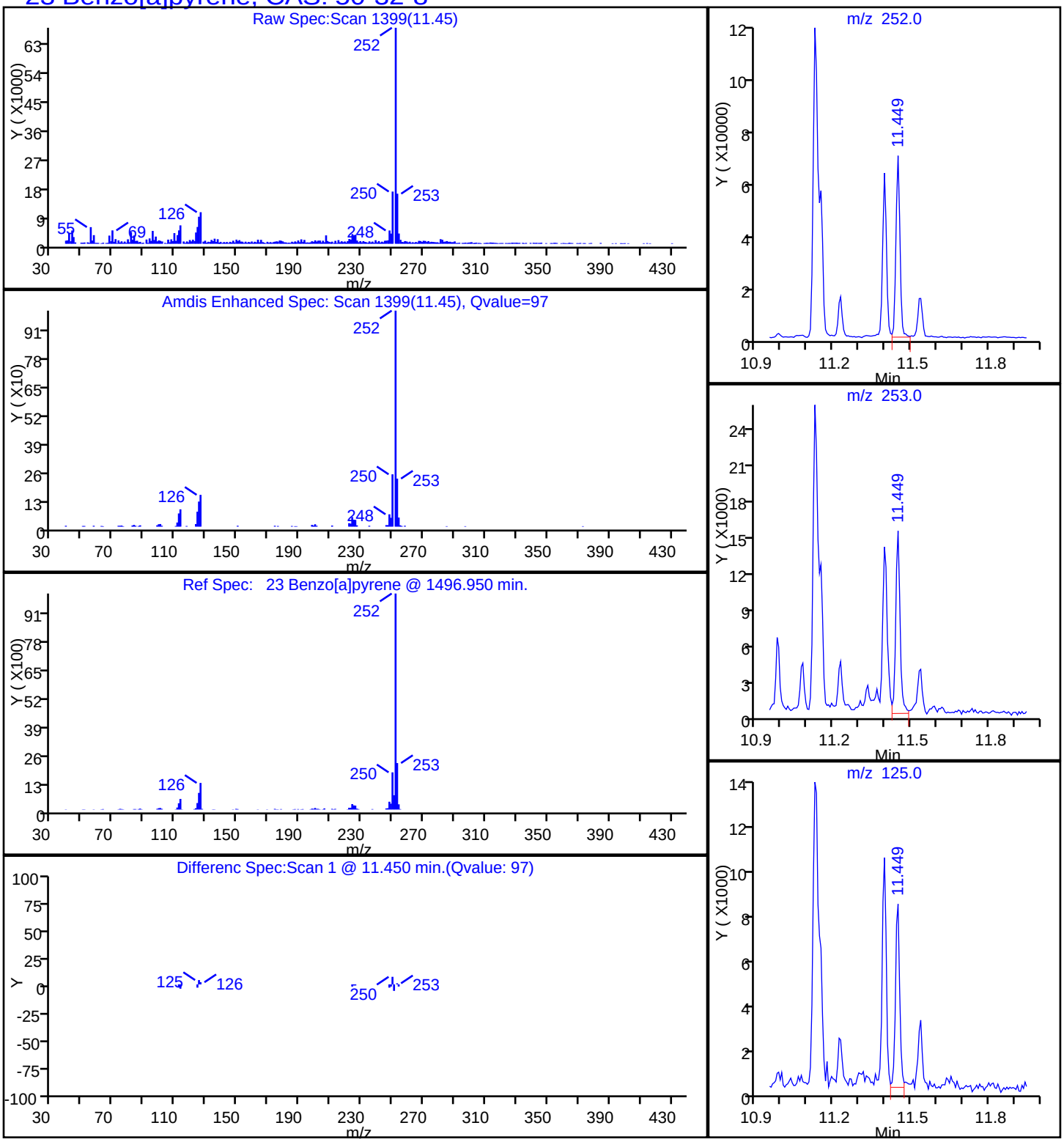
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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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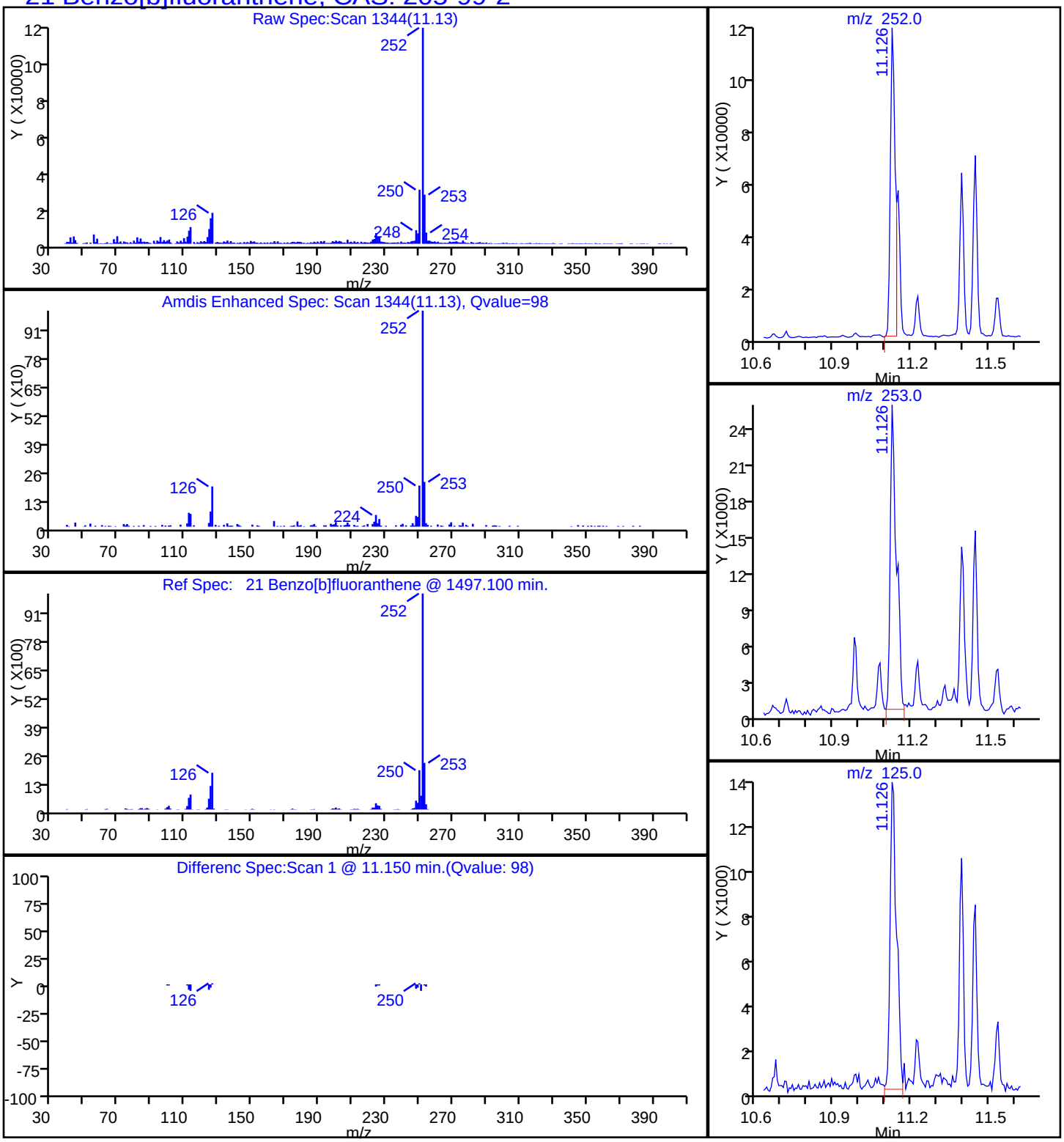
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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



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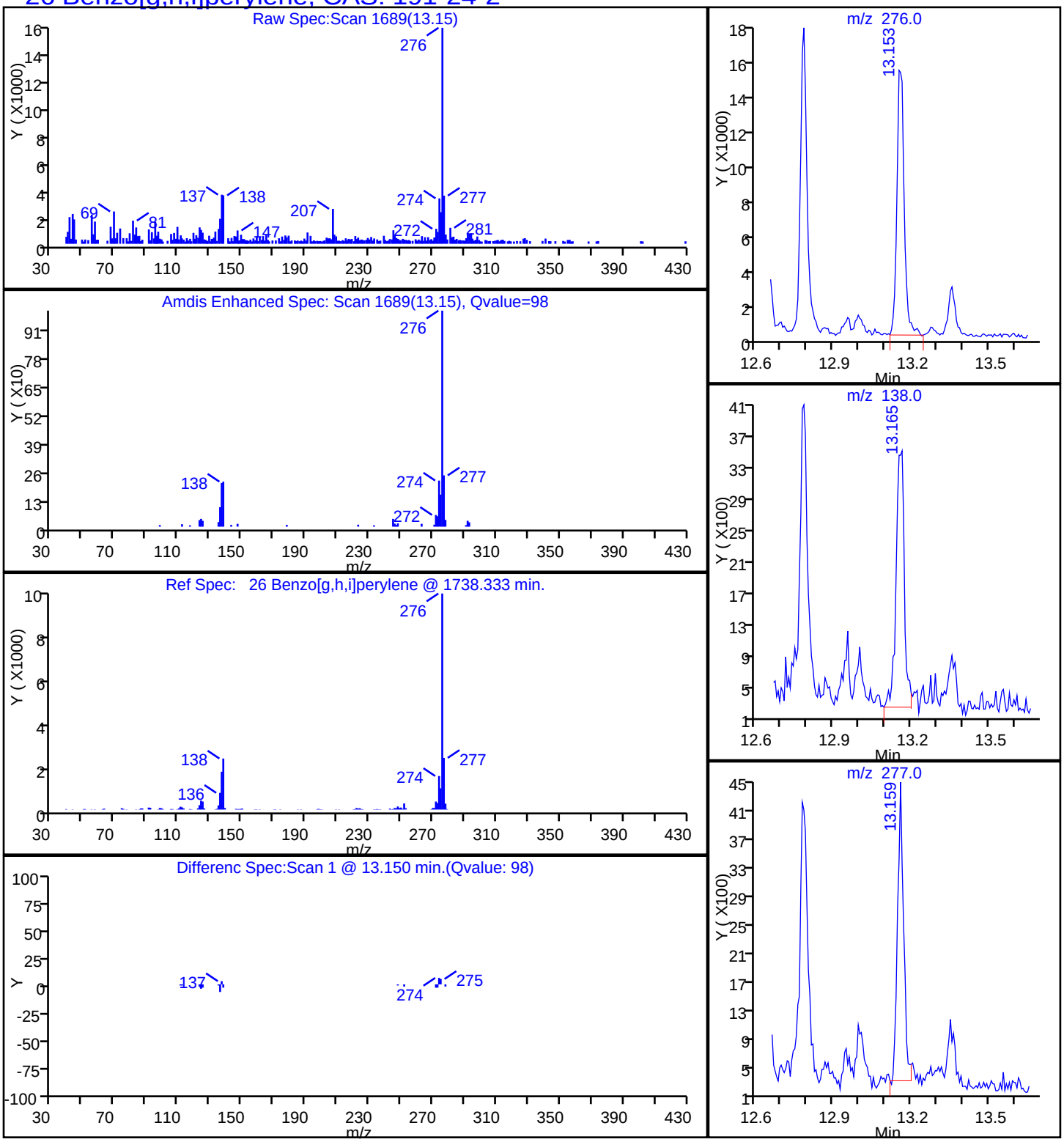
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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



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TestAmerica Savannah

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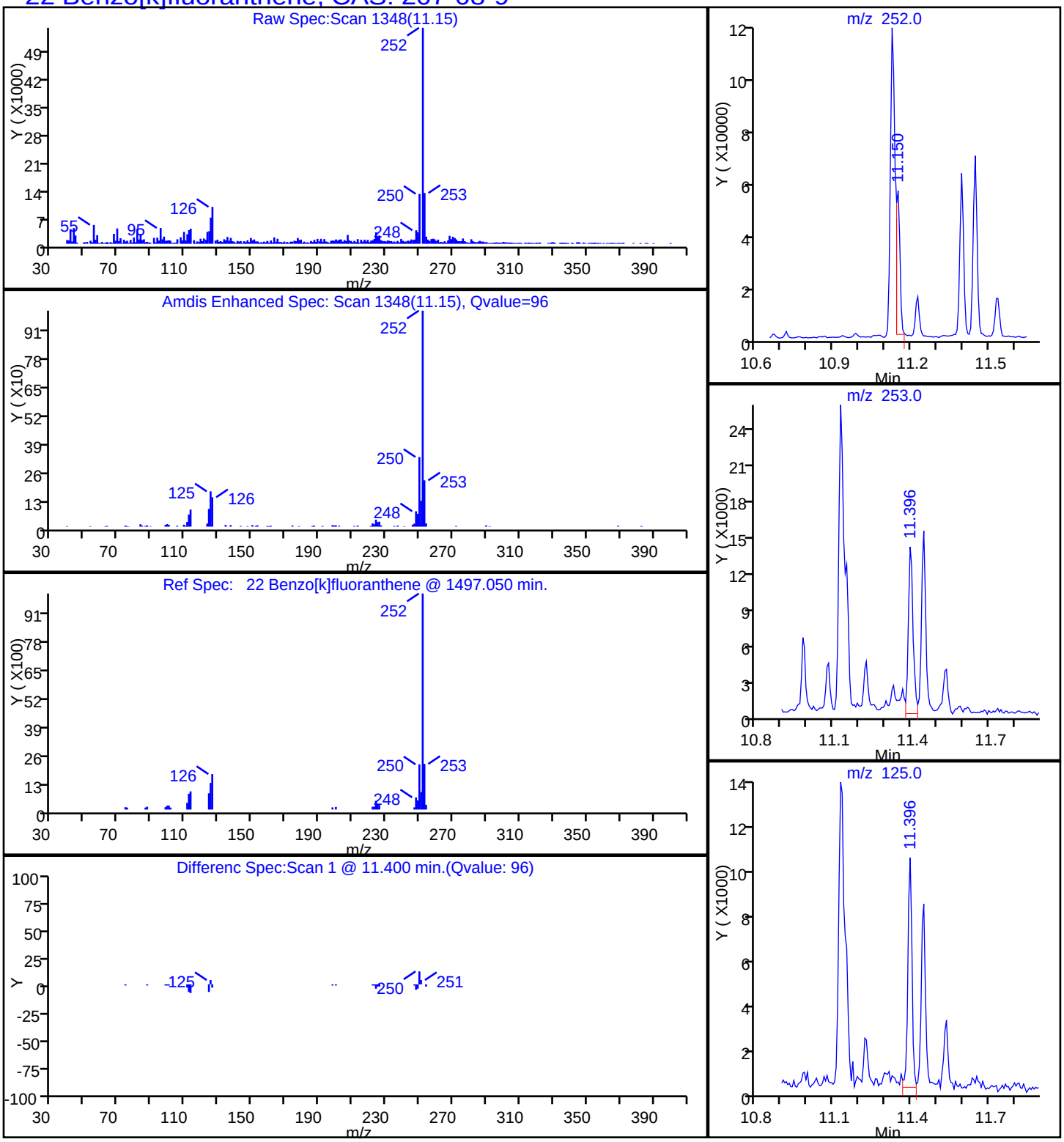
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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



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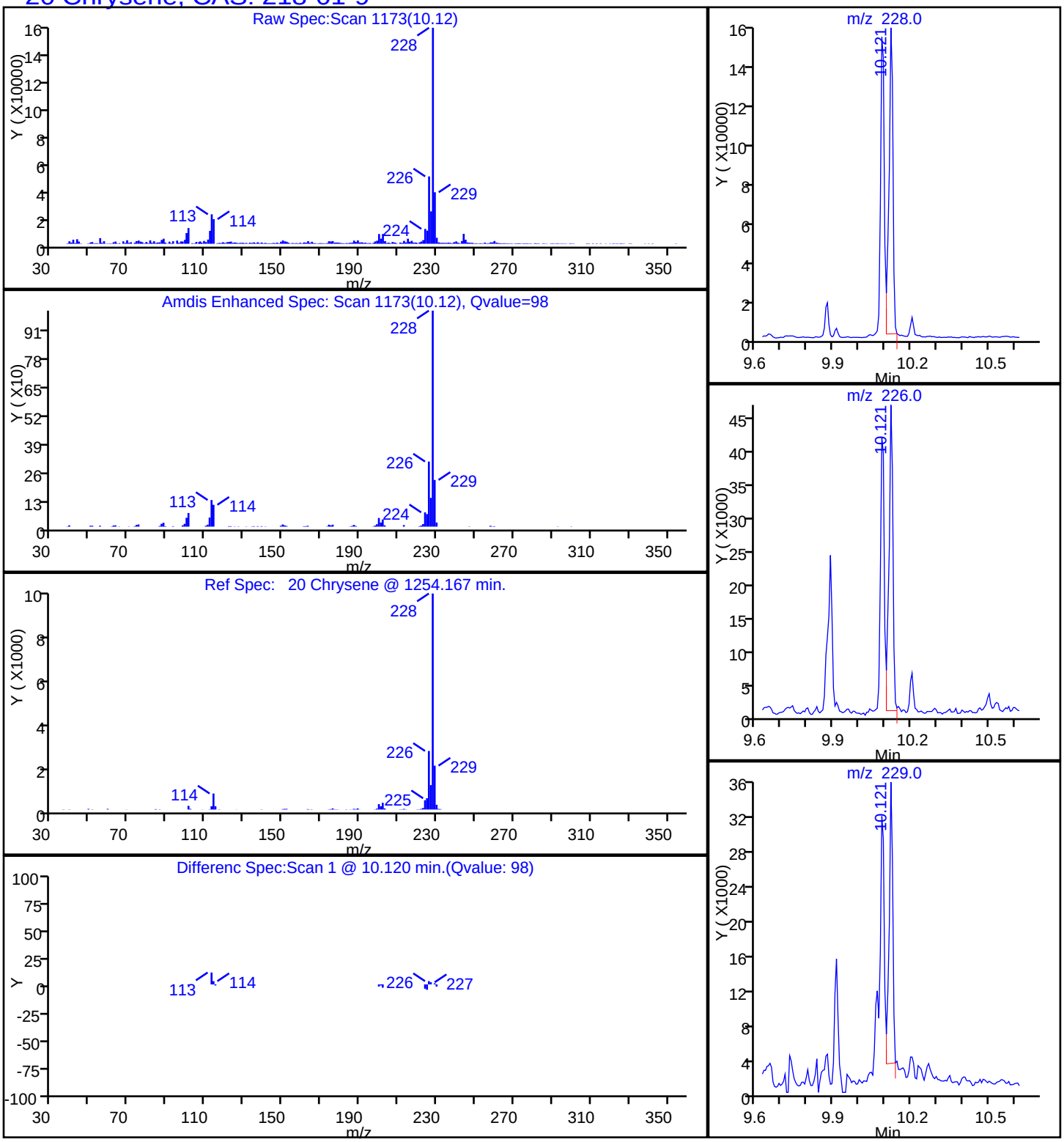
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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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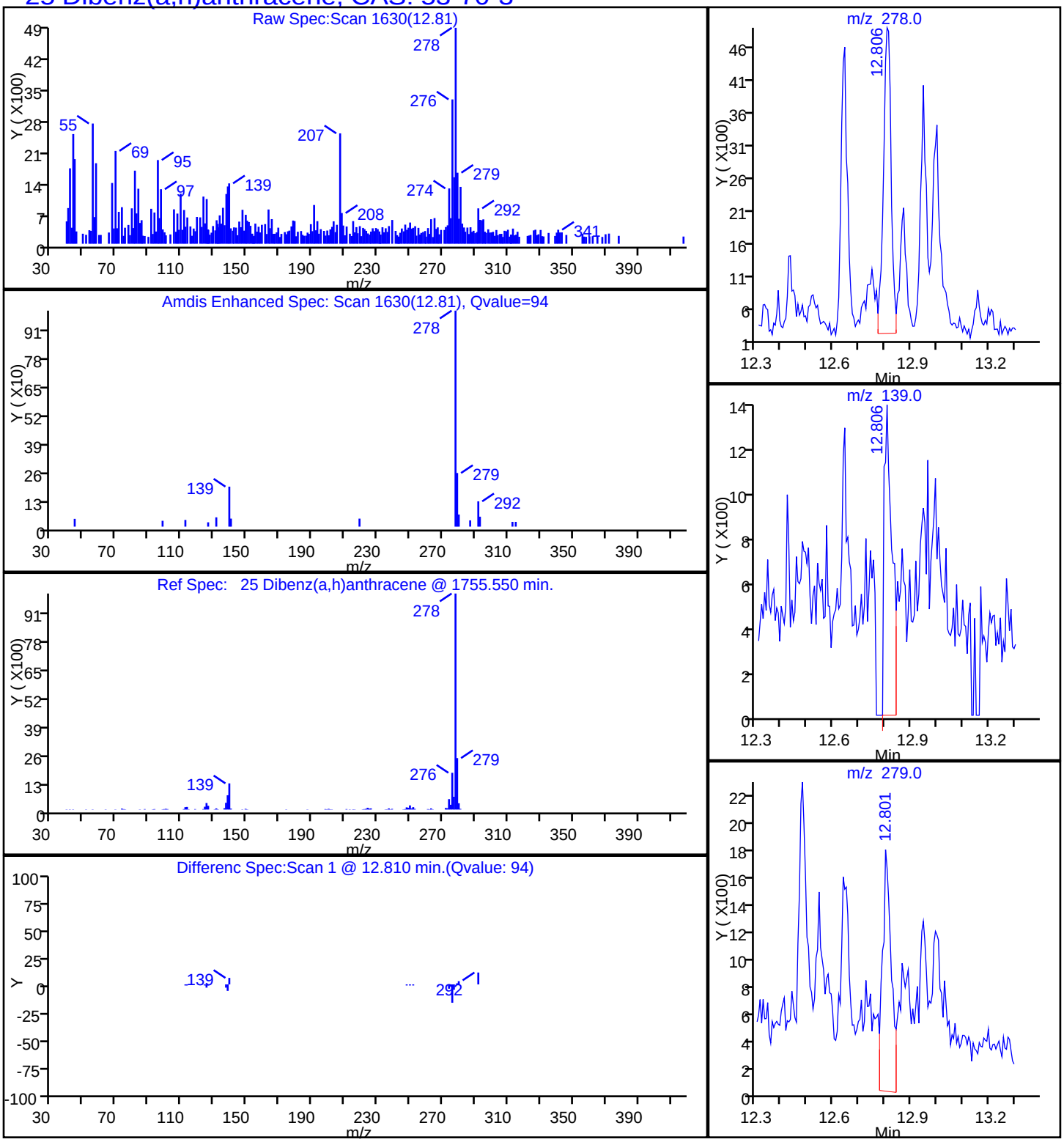
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

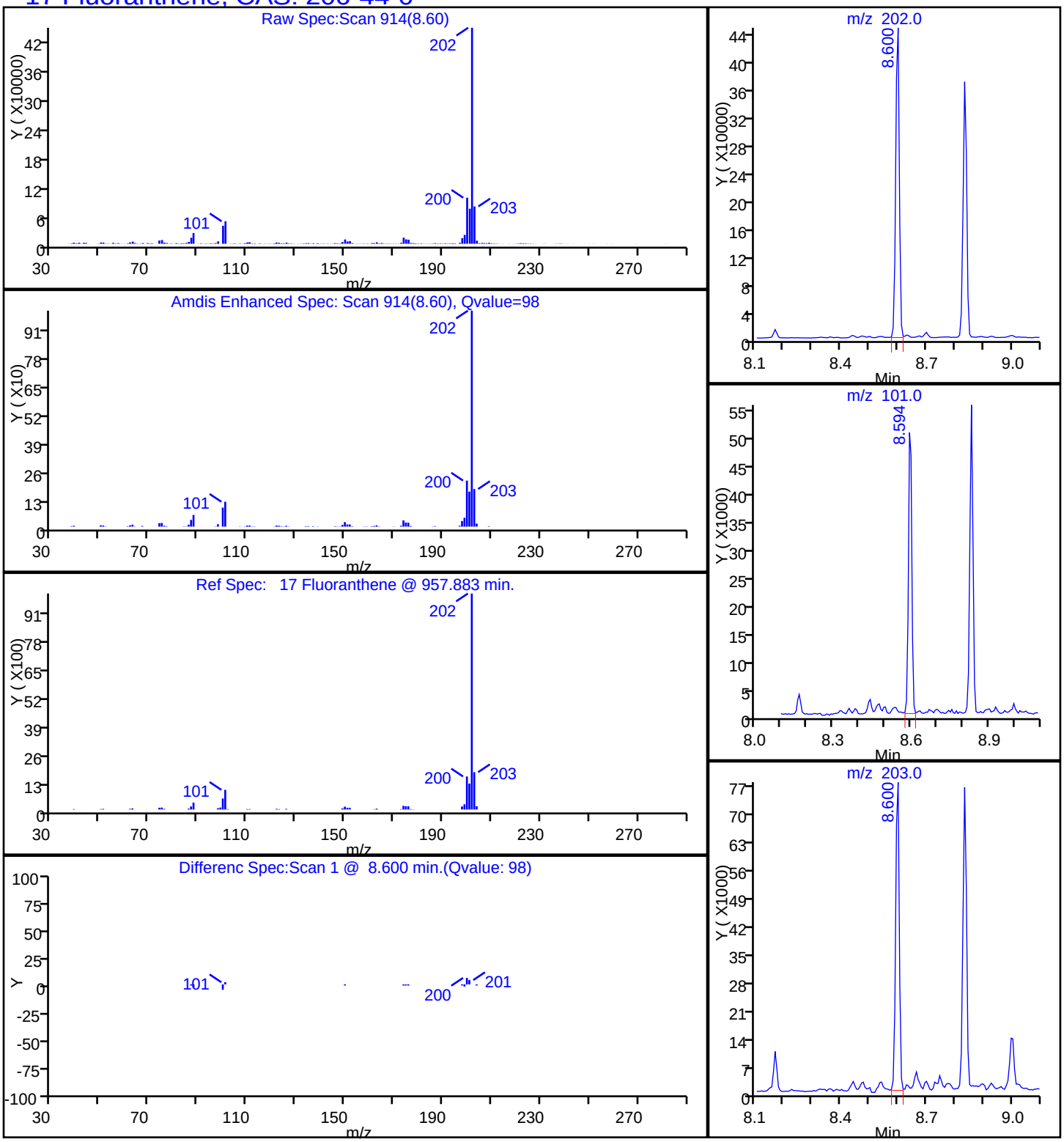


Report Date: 04-Nov-2014 09:15:14 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

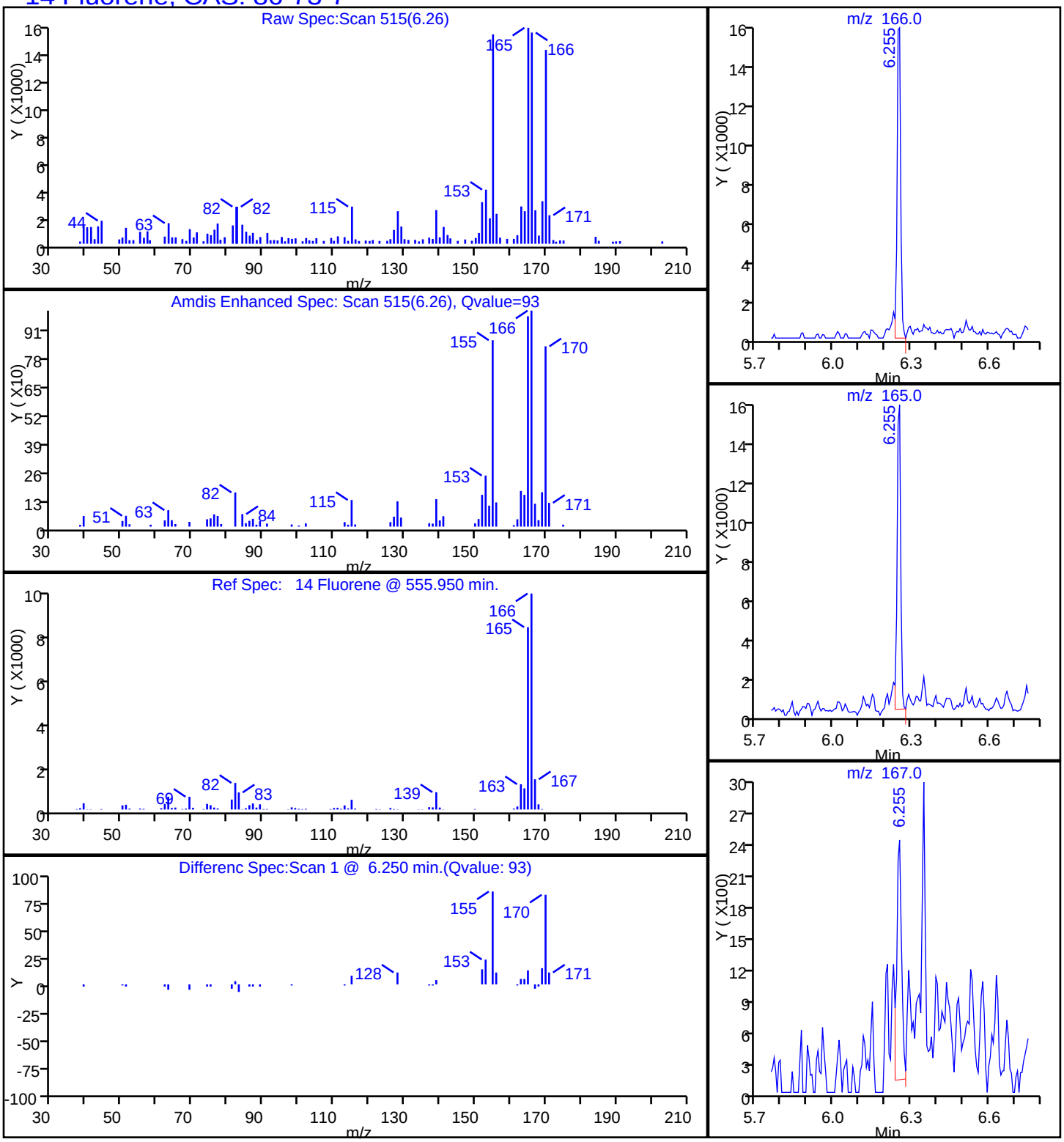


Report Date: 04-Nov-2014 09:15:14 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

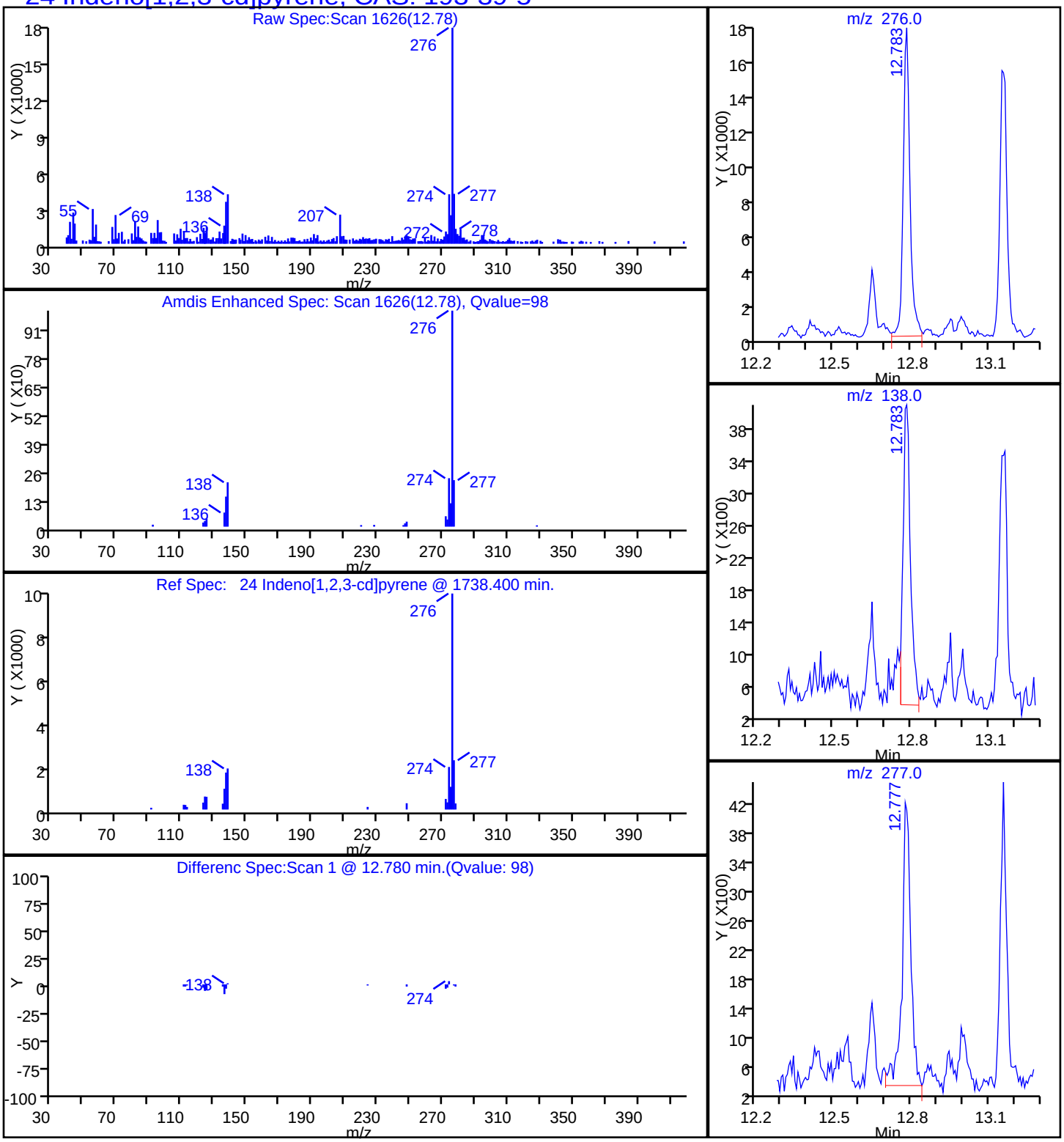


Report Date: 04-Nov-2014 09:15:14 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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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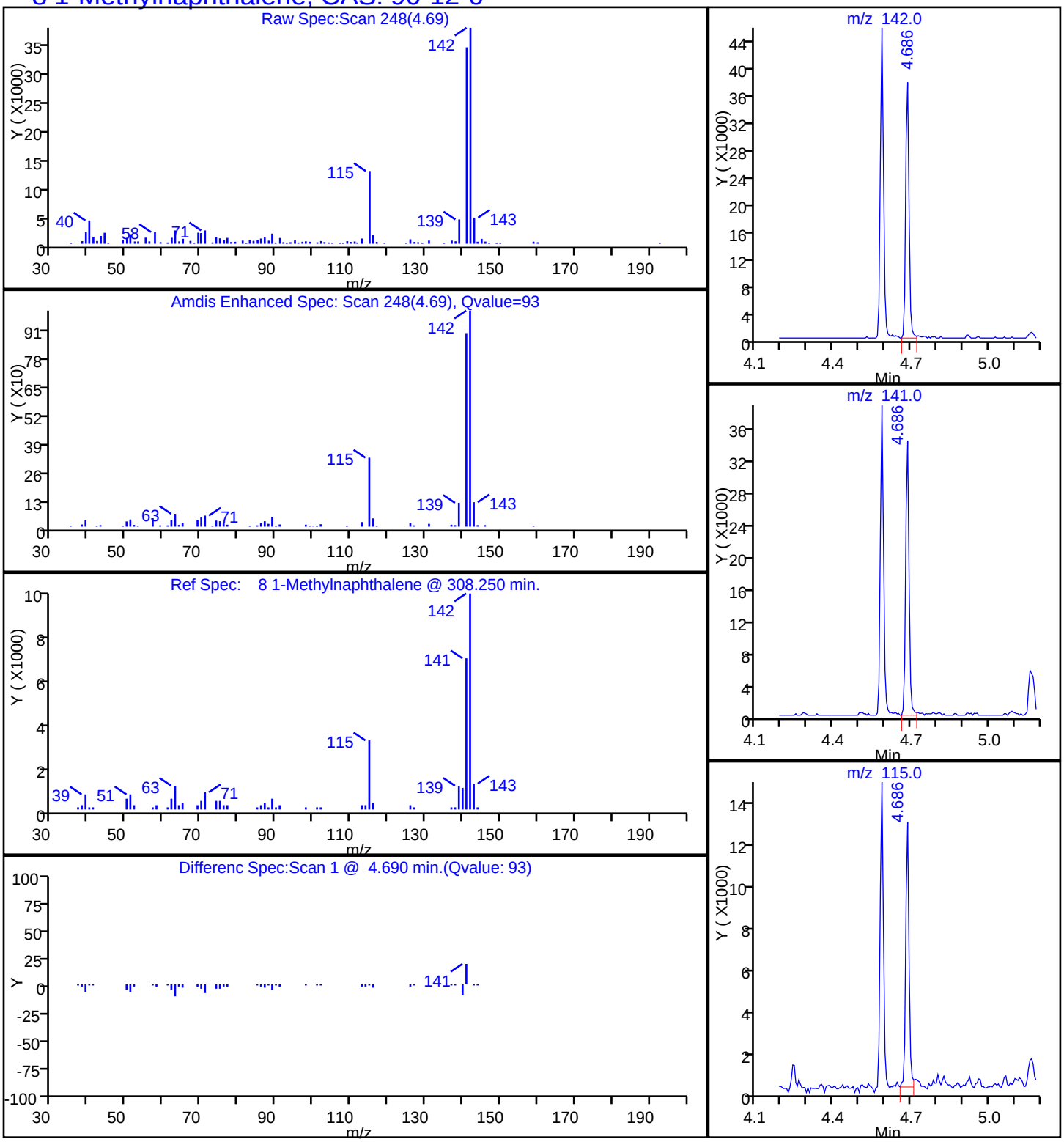
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

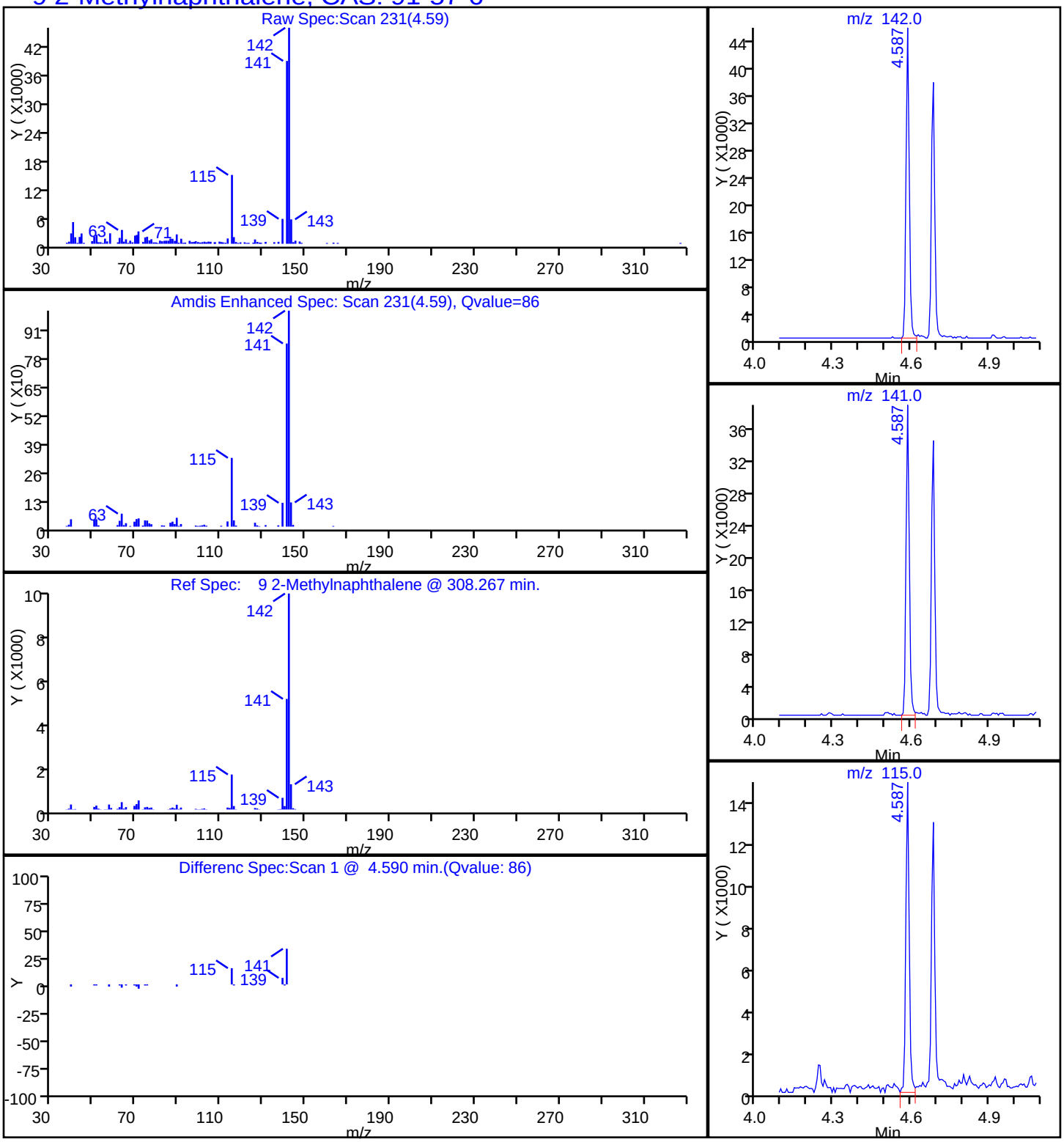


Report Date: 04-Nov-2014 09:15:14 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

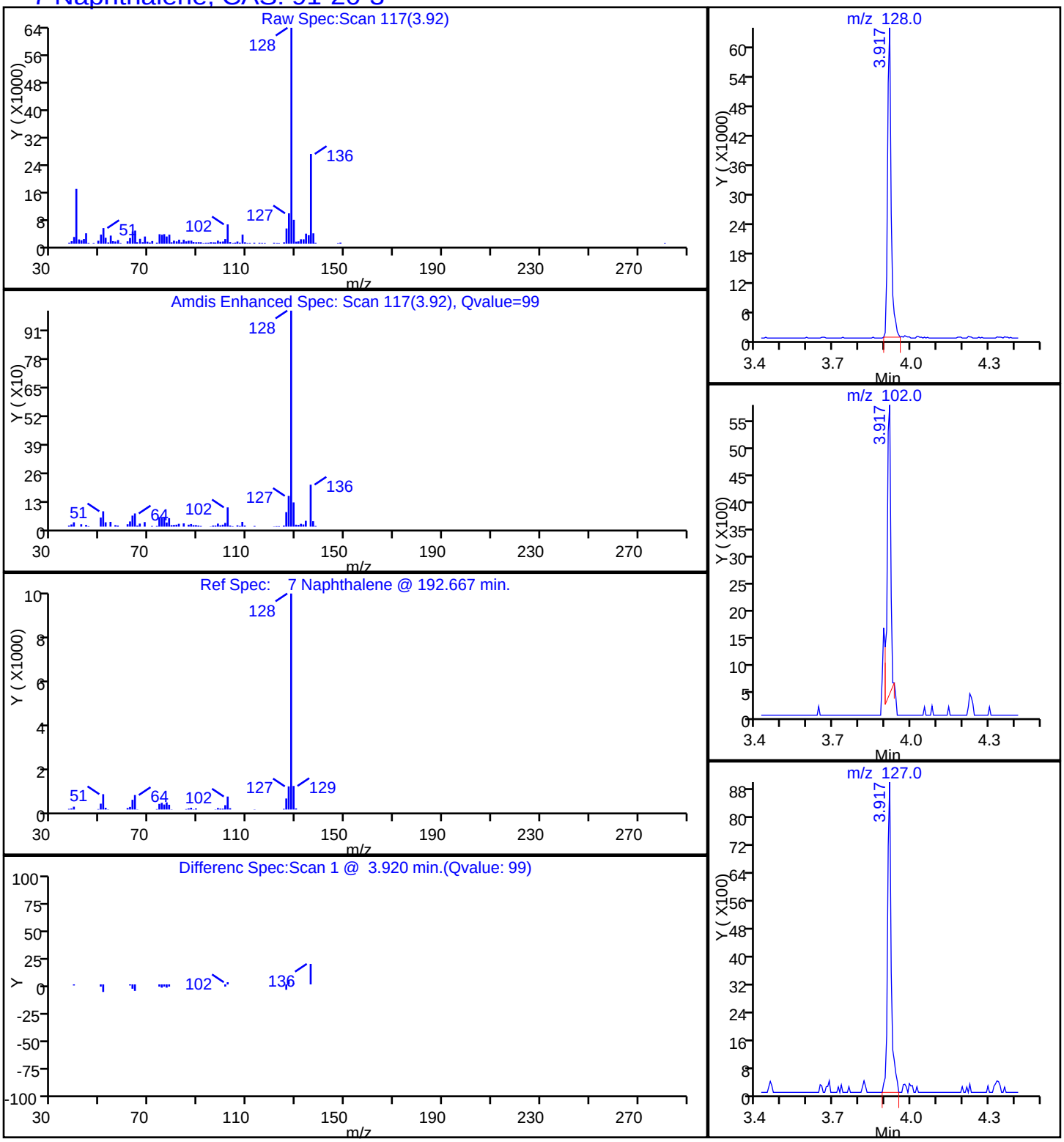


Report Date: 04-Nov-2014 09:15:14 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

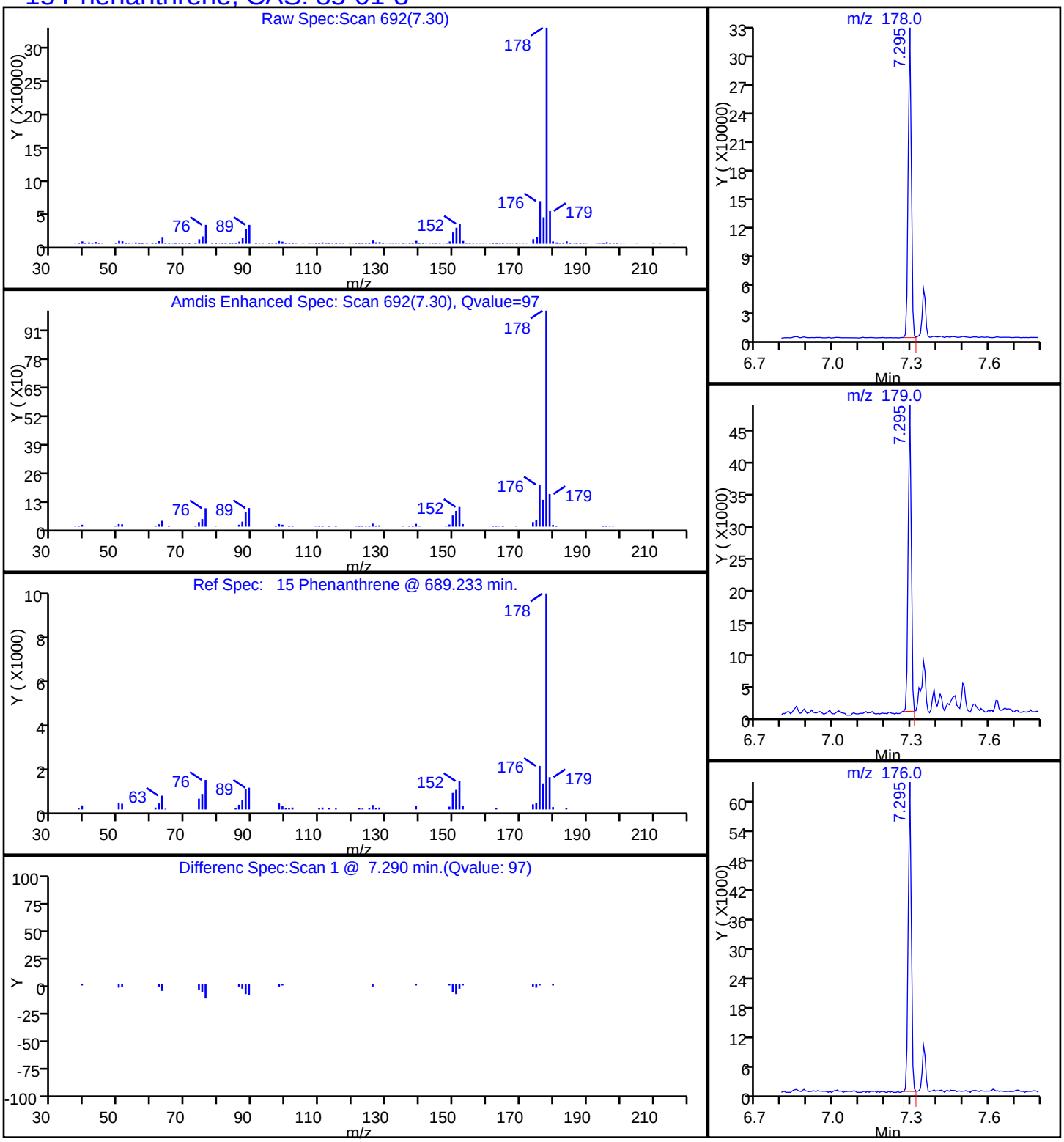


Report Date: 04-Nov-2014 09:15:14 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

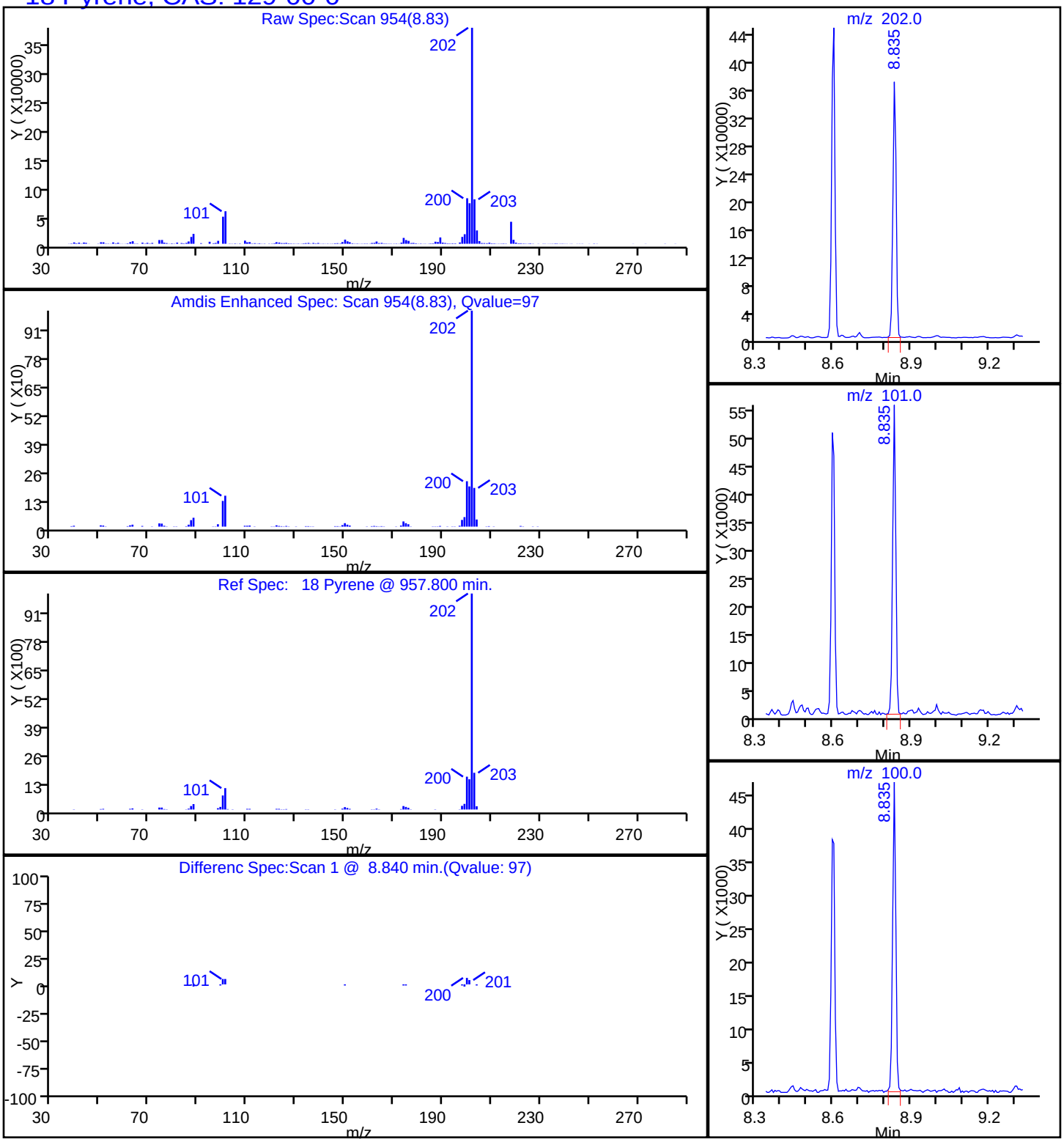


Report Date: 04-Nov-2014 09:15:14 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

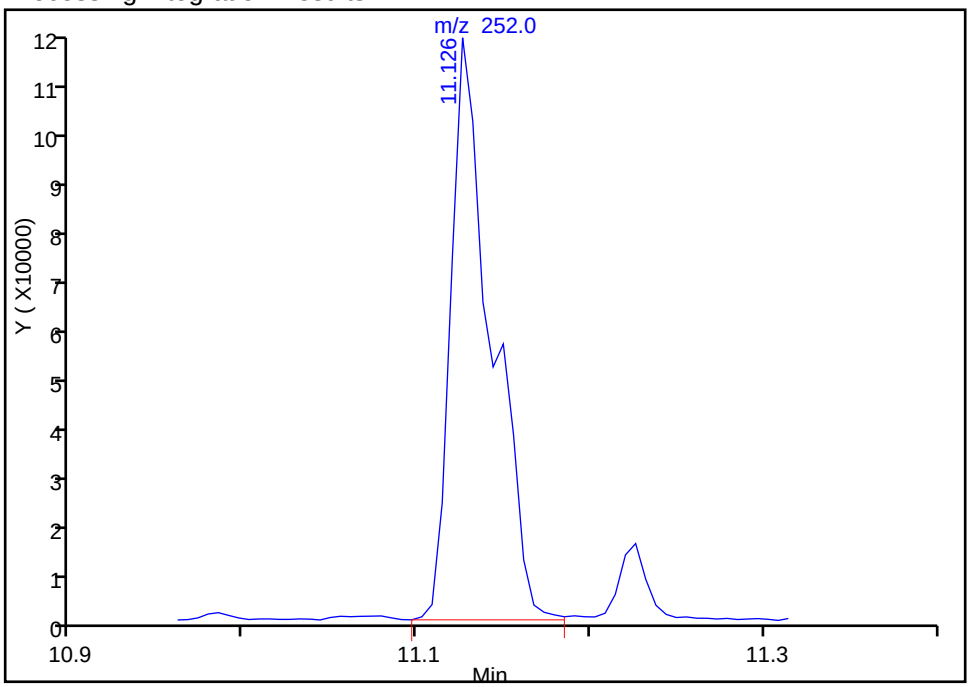
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

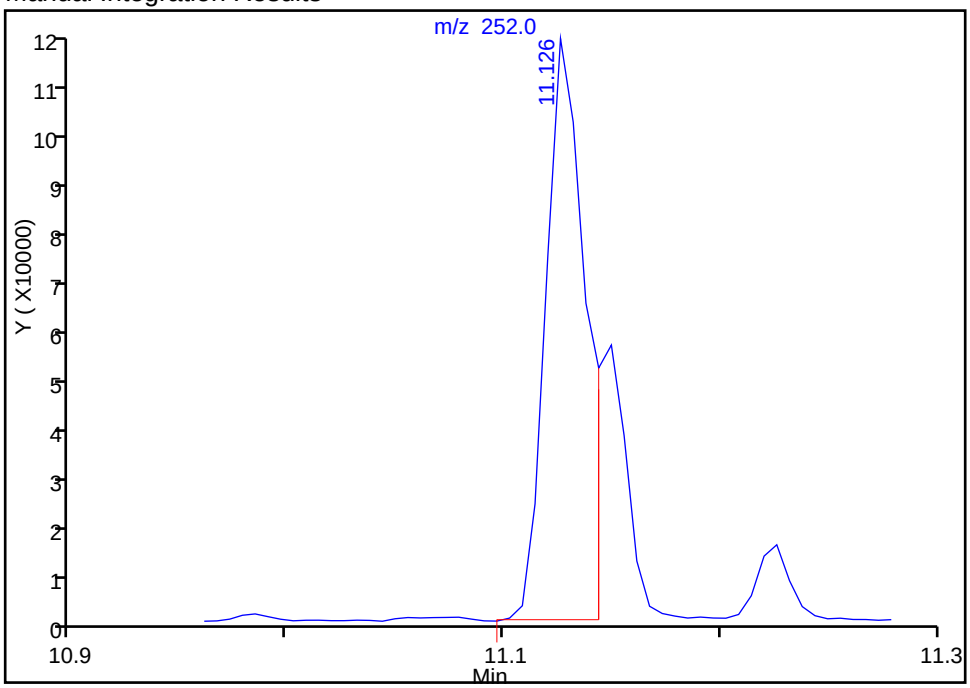
Processing Integration Results

RT: 11.13
Response: 185490
Amount: 2.549174



Manual Integration Results

RT: 11.13
Response: 146791
Amount: 2.017337



Reviewer: webbk, 04-Nov-2014 09:10:08
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

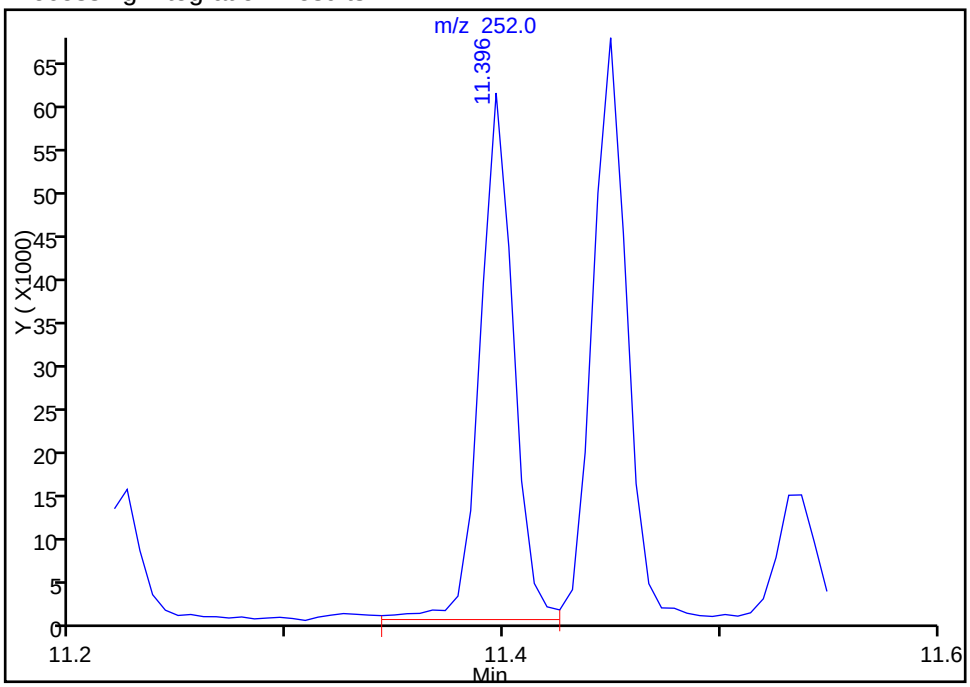
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0324.D				
Injection Date:	03-Nov-2014 19:05:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-16-A	Lab Sample ID:	680-106803-16		
Client ID:	CV0971AP-GS12"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

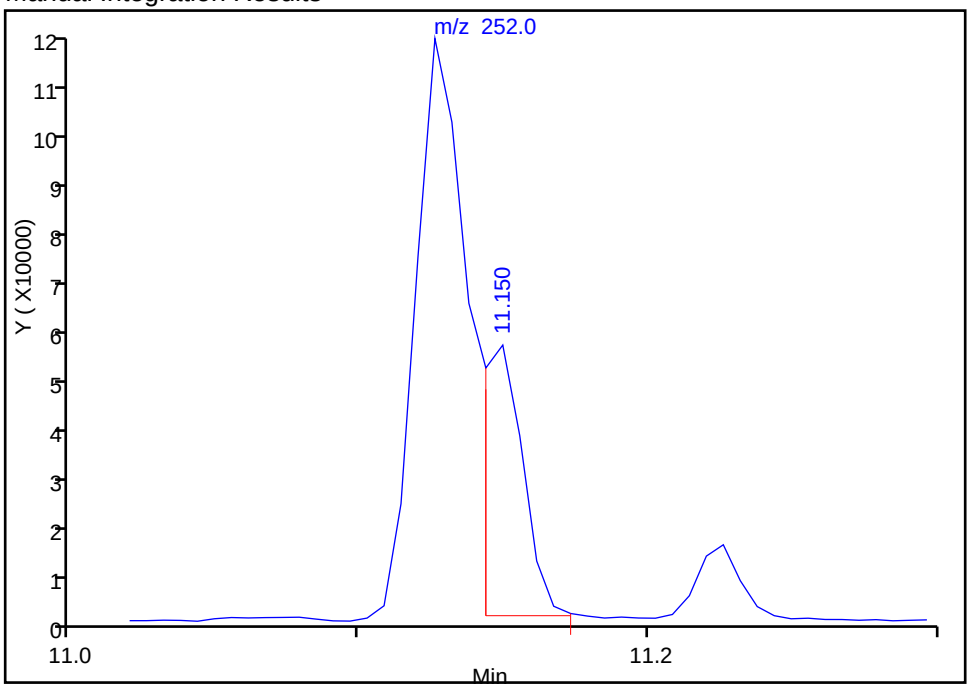
Processing Integration Results

RT: 11.40
Response: 64628
Amount: 0.858048



Manual Integration Results

RT: 11.15
Response: 52421
Amount: 0.695979



Reviewer: webbk, 04-Nov-2014 09:10:08
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971AP-GS18" | Lab Sample ID: 680-106803-17

Matrix: Solid | Lab File ID: 1KK0325.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 11:50

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.01(g) | Date Analyzed: 11/03/2014 19:27

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

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

% Moisture: 14.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	79	U	79	39
208-96-8	Acenaphthylene	79	U	79	39
120-12-7	Anthracene	79	U	79	39
56-55-3	Benzo[a]anthracene	71	J	79	39
50-32-8	Benzo[a]pyrene	87		79	14
205-99-2	Benzo[b]fluoranthene	130		79	39
191-24-2	Benzo[g,h,i]perylene	79	U	79	39
207-08-9	Benzo[k]fluoranthene	54	J	79	23
218-01-9	Chrysene	90		79	39
53-70-3	Dibenz(a,h)anthracene	79	U	79	39
206-44-0	Fluoranthene	120		79	39
86-73-7	Fluorene	79	U	79	39
193-39-5	Indeno[1,2,3-cd]pyrene	79	U	79	39
90-12-0	1-Methylnaphthalene	79	U	79	36
91-57-6	2-Methylnaphthalene	79	U	79	39
91-20-3	Naphthalene	79	U	79	39
85-01-8	Phenanthrene	41	J	79	28
129-00-0	Pyrene	100		79	39

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\20141103-14354.b\1KK0325.D				
Lims ID:	680-106803-B-17-A	Lab Sample ID:	680-106803-17		
Client ID:	CV0971AP-GS18"				
Sample Type:	Client				
Inject. Date:	03-Nov-2014 19:27:30	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	680-106803-B-17-A 1:10				
Misc. Info.:	680-0014354-025				
Operator ID:	RM	Instrument ID:	CMSK		
Method:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m				
Limit Group:	8270D_LL_PAH				
Last Update:	04-Nov-2014 09:15:09	Calib Date:	22-Oct-2014 16:17:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D				
Column 1 :	Restek RXi-5Sil MS (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK009				

First Level Reviewer: webbk Date: 04-Nov-2014 09:10:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.893	3.893	0.000	99	416515	2.00	
* 2 Acenaphthene-d10	164	5.668	5.662	0.006	92	233544	2.00	
* 3 Phenanthrene-d10	188	7.272	7.266	0.006	98	338980	2.00	
* 4 Chrysene-d12	240	10.098	10.092	0.006	100	231816	2.00	
* 5 Perylene-d12	264	11.520	11.496	0.024	99	136507	2.00	
15 Phenanthrene	178	7.295	7.289	0.006	97	21767	0.1054	
16 Anthracene	178	7.348	7.348	0.000	75	3660	0.0188	7
17 Fluoranthene	202	8.600	8.594	0.006	98	61615	0.2982	
18 Pyrene	202	8.835	8.829	0.006	97	54618	0.2625	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	97	25104	0.1814	
20 Chrysene	228	10.121	10.115	0.006	98	30131	0.2306	
21 Benzo[b]fluoranthene	252	11.132	11.114	0.018	97	28851	0.3268	
22 Benzo[k]fluoranthene	252	11.155	11.138	0.017	96	12677	0.1387	M
23 Benzo[a]pyrene	252	11.455	11.437	0.018	96	17137	0.2224	
26 Benzo[g,h,i]perylene	276	13.171	13.141	0.030	97	7357	0.0941	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

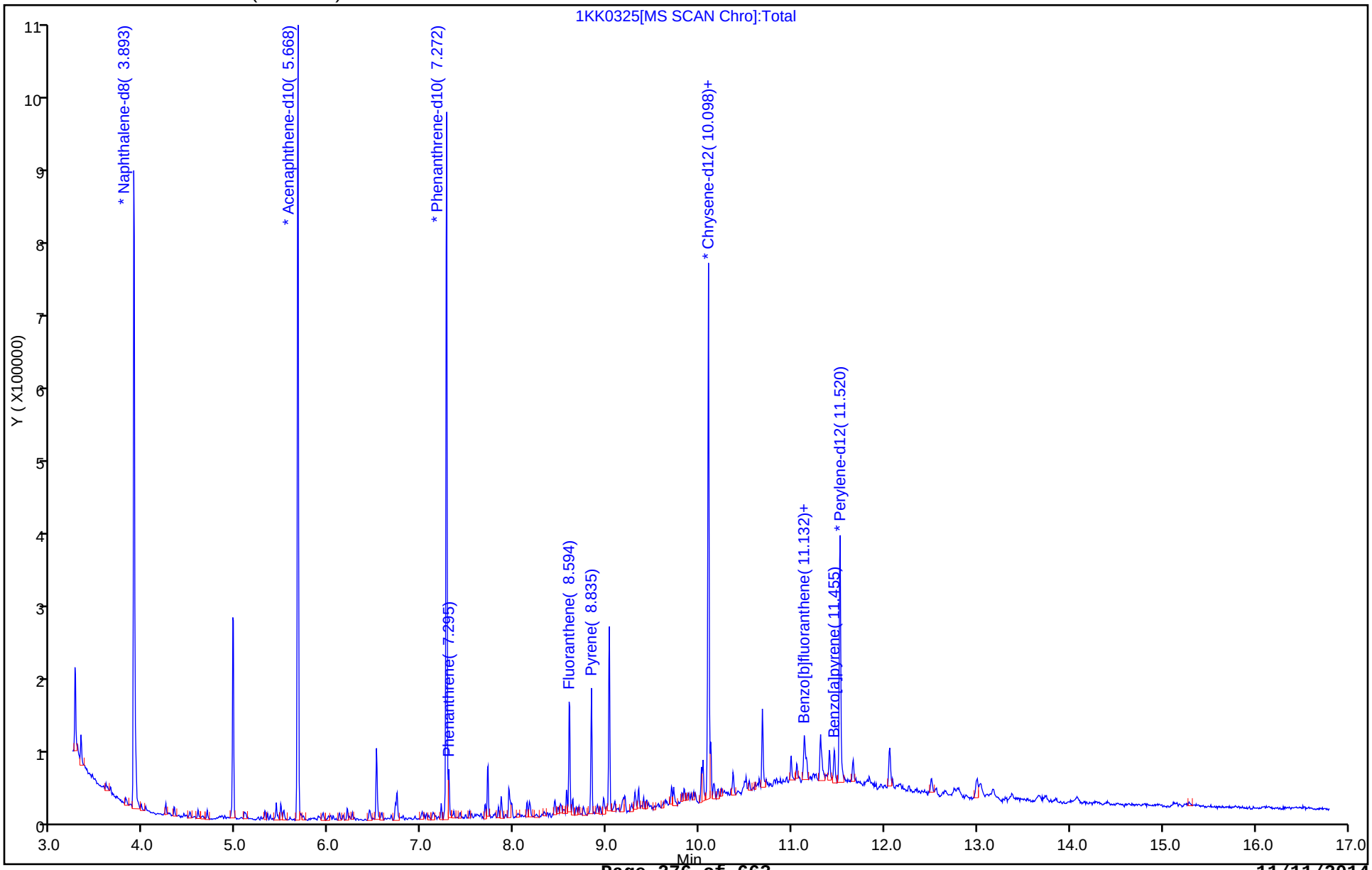
SM-LLISTD_00110 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 04-Nov-2014 09:15:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0325.D				
Injection Date:	03-Nov-2014 19:27:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-17-A	Lab Sample ID:	680-106803-17	Worklist Smp#:	25
Client ID:	CV0971AP-GS18"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	25
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

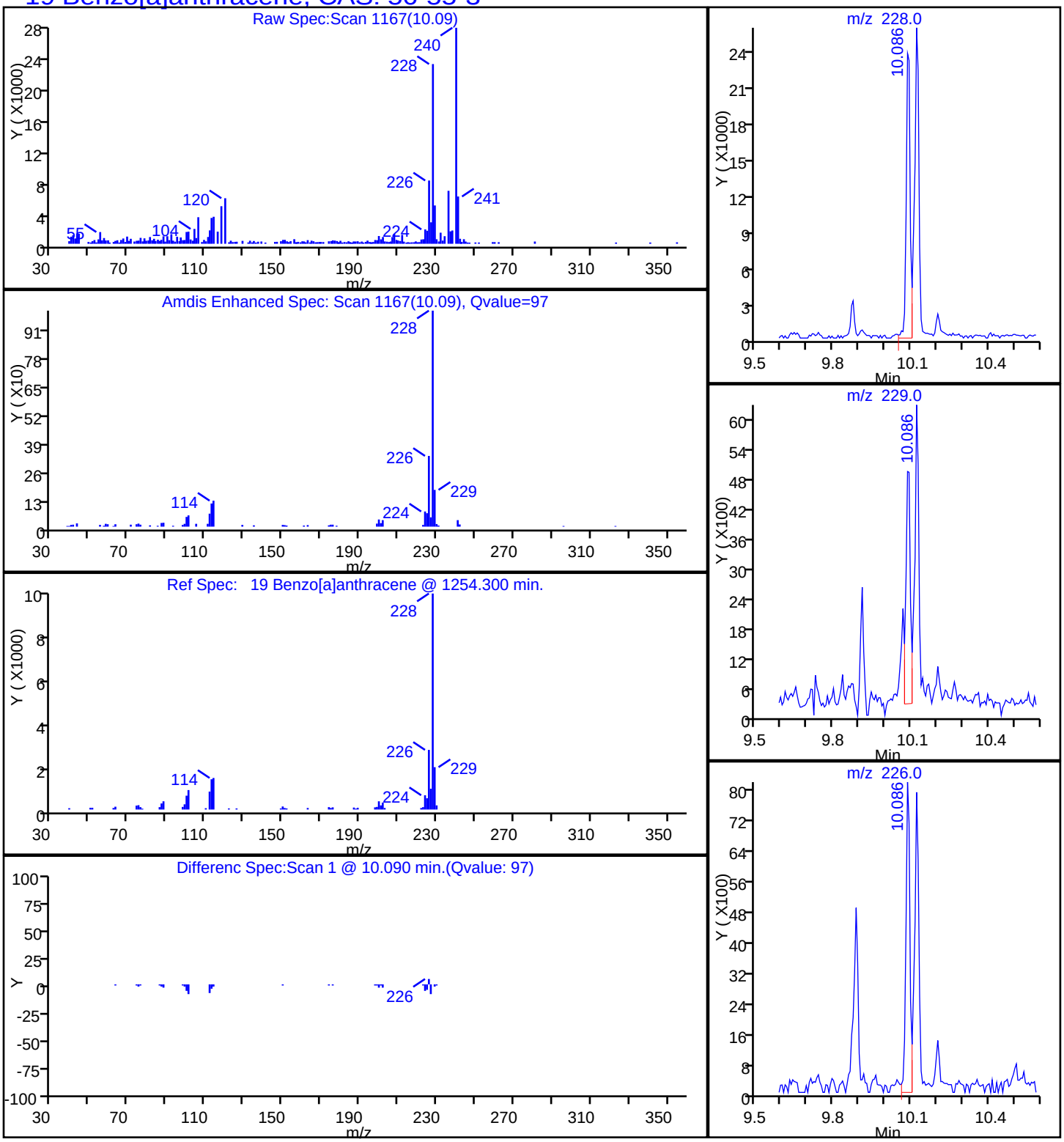


Report Date: 04-Nov-2014 09:15:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0325.D				
Injection Date:	03-Nov-2014 19:27:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-17-A	Lab Sample ID:	680-106803-17		
Client ID:	CV0971AP-GS18"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

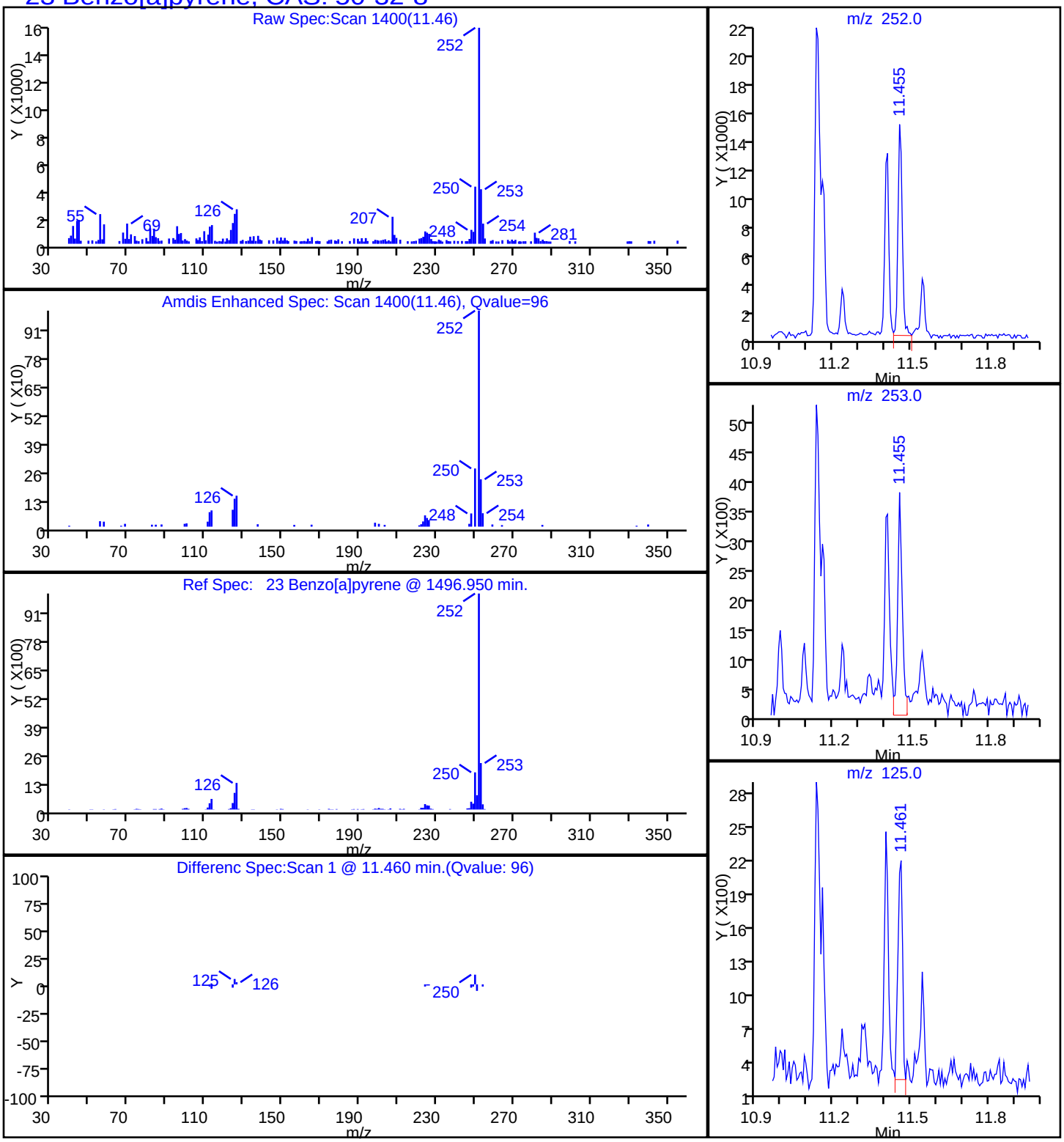


Report Date: 04-Nov-2014 09:15:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0325.D				
Injection Date:	03-Nov-2014 19:27:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-17-A	Lab Sample ID:	680-106803-17		
Client ID:	CV0971AP-GS18"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

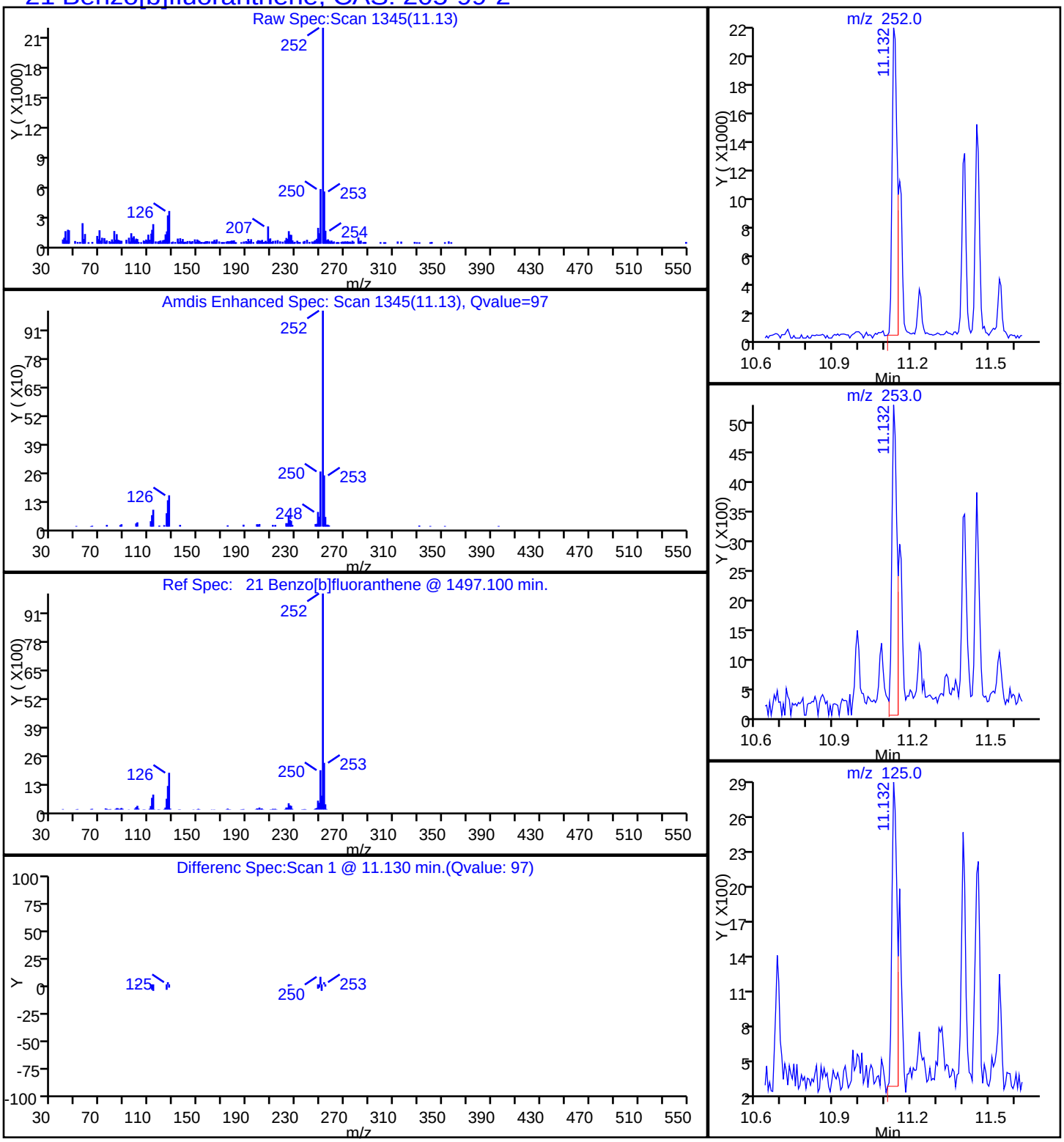


Report Date: 04-Nov-2014 09:15:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0325.D				
Injection Date:	03-Nov-2014 19:27:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-17-A	Lab Sample ID:	680-106803-17		
Client ID:	CV0971AP-GS18"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

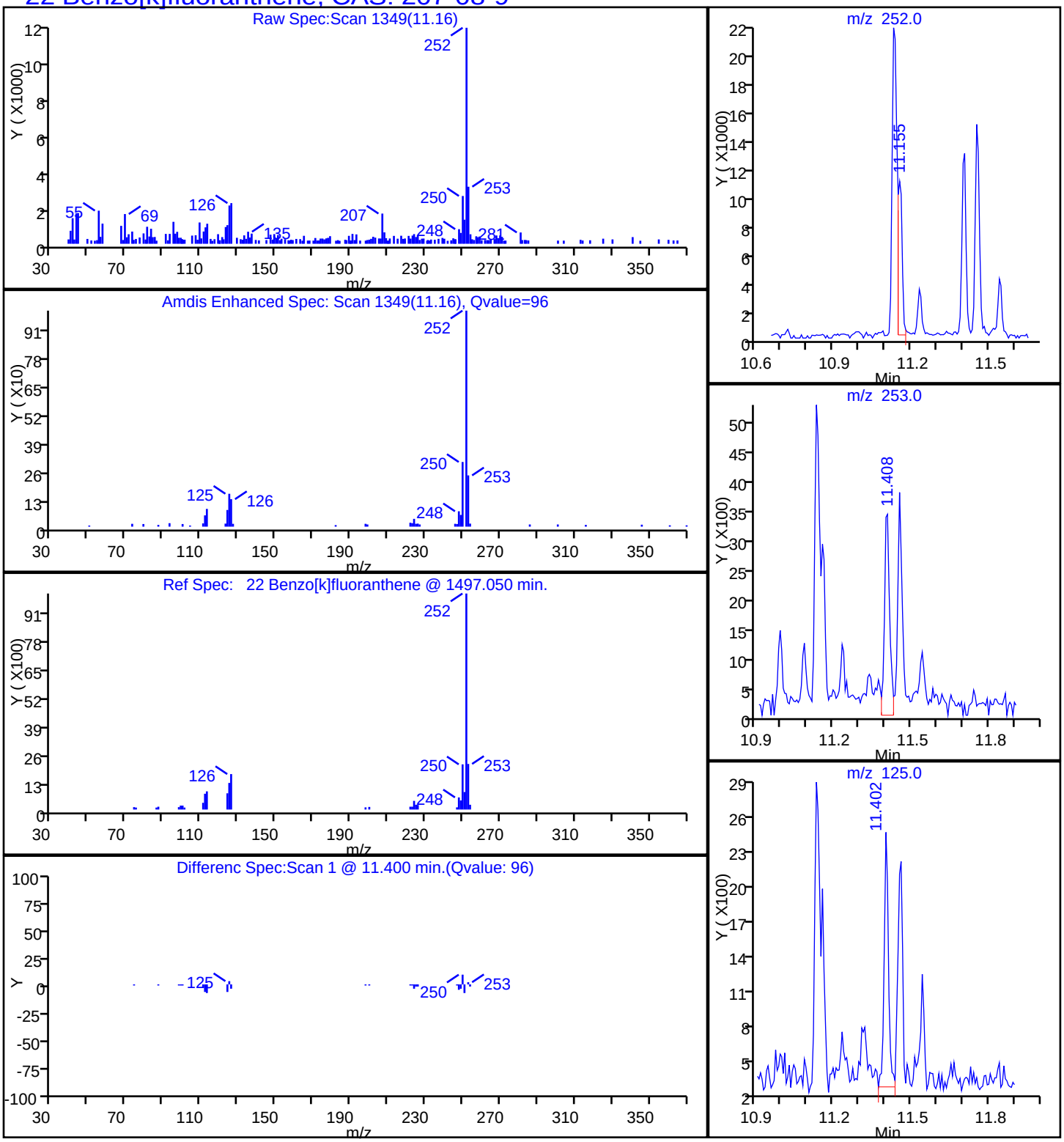


Report Date: 04-Nov-2014 09:15:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0325.D				
Injection Date:	03-Nov-2014 19:27:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-17-A	Lab Sample ID:	680-106803-17		
Client ID:	CV0971AP-GS18"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

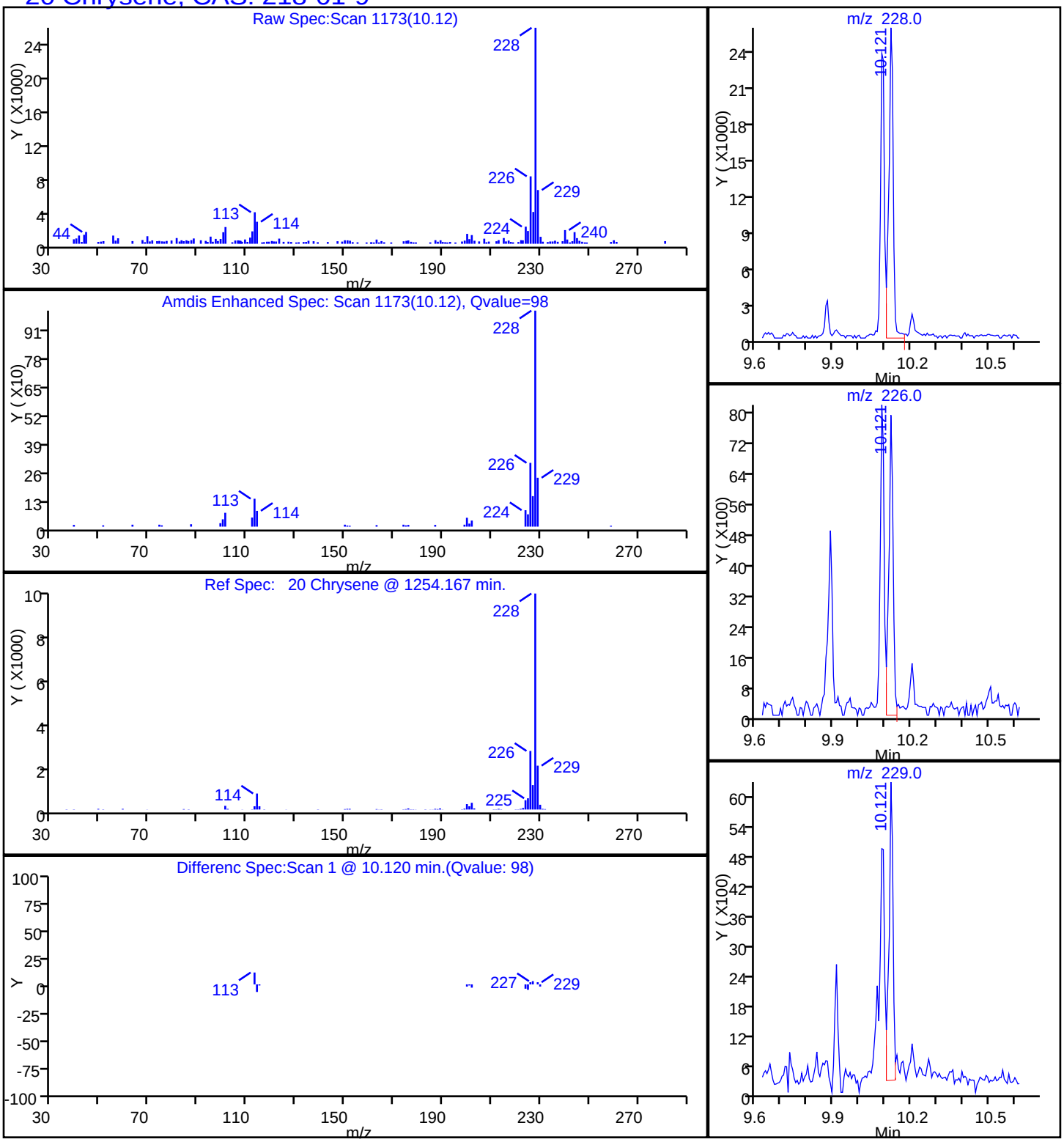


Report Date: 04-Nov-2014 09:15:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0325.D				
Injection Date:	03-Nov-2014 19:27:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-17-A	Lab Sample ID:	680-106803-17		
Client ID:	CV0971AP-GS18"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

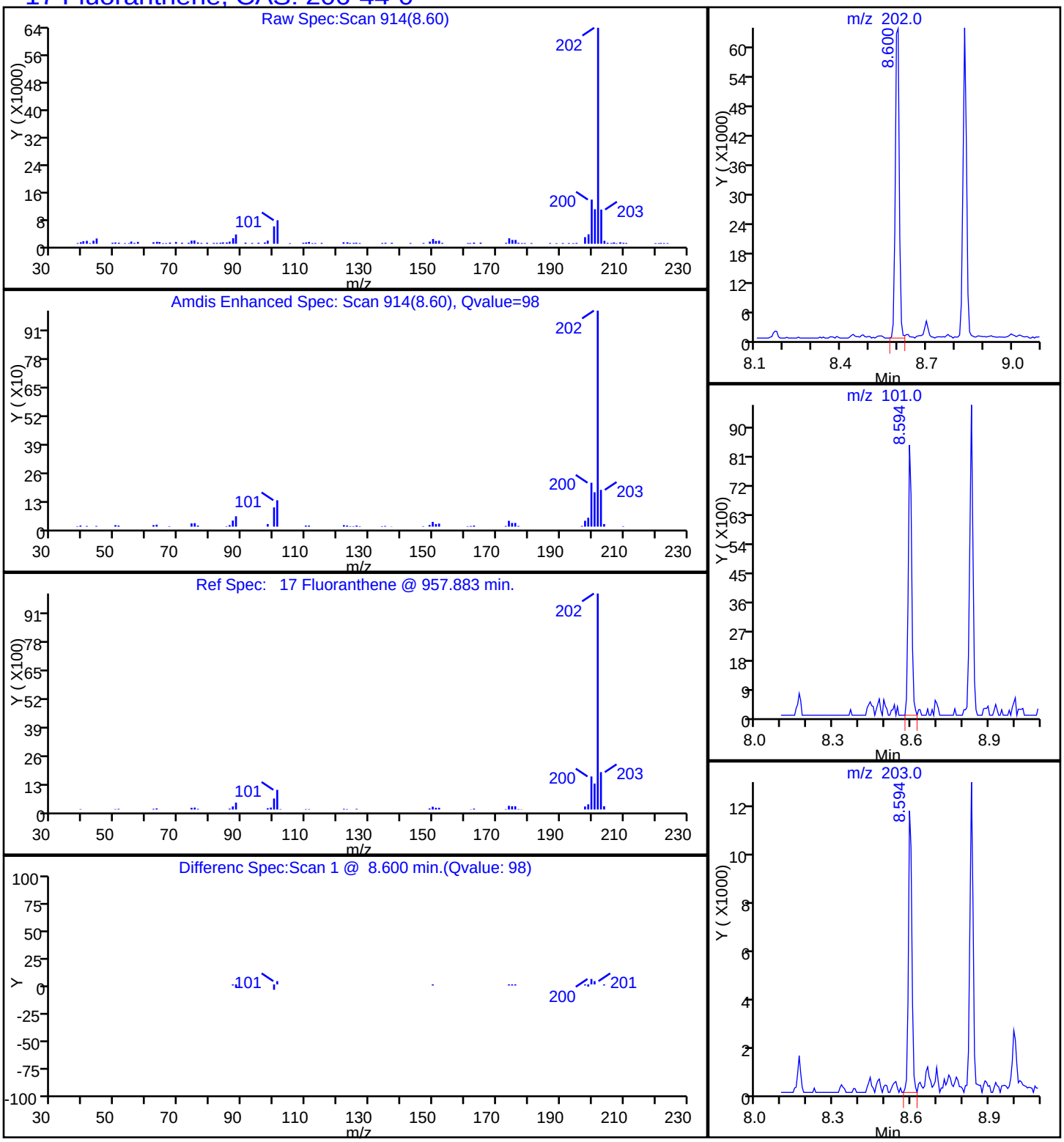


Report Date: 04-Nov-2014 09:15:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0325.D				
Injection Date:	03-Nov-2014 19:27:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-17-A	Lab Sample ID:	680-106803-17		
Client ID:	CV0971AP-GS18"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

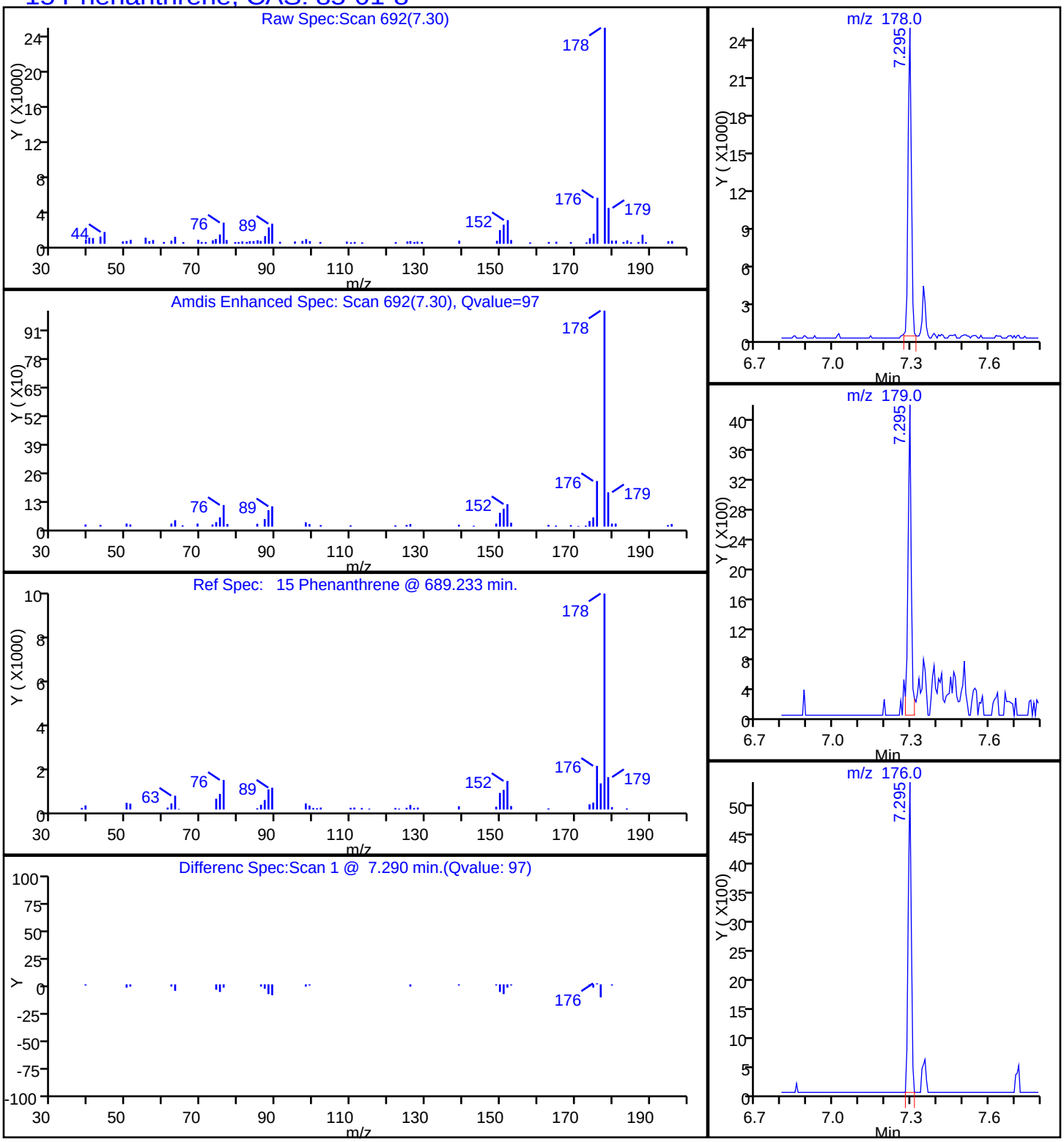


Report Date: 04-Nov-2014 09:15:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0325.D				
Injection Date:	03-Nov-2014 19:27:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-17-A	Lab Sample ID:	680-106803-17		
Client ID:	CV0971AP-GS18"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

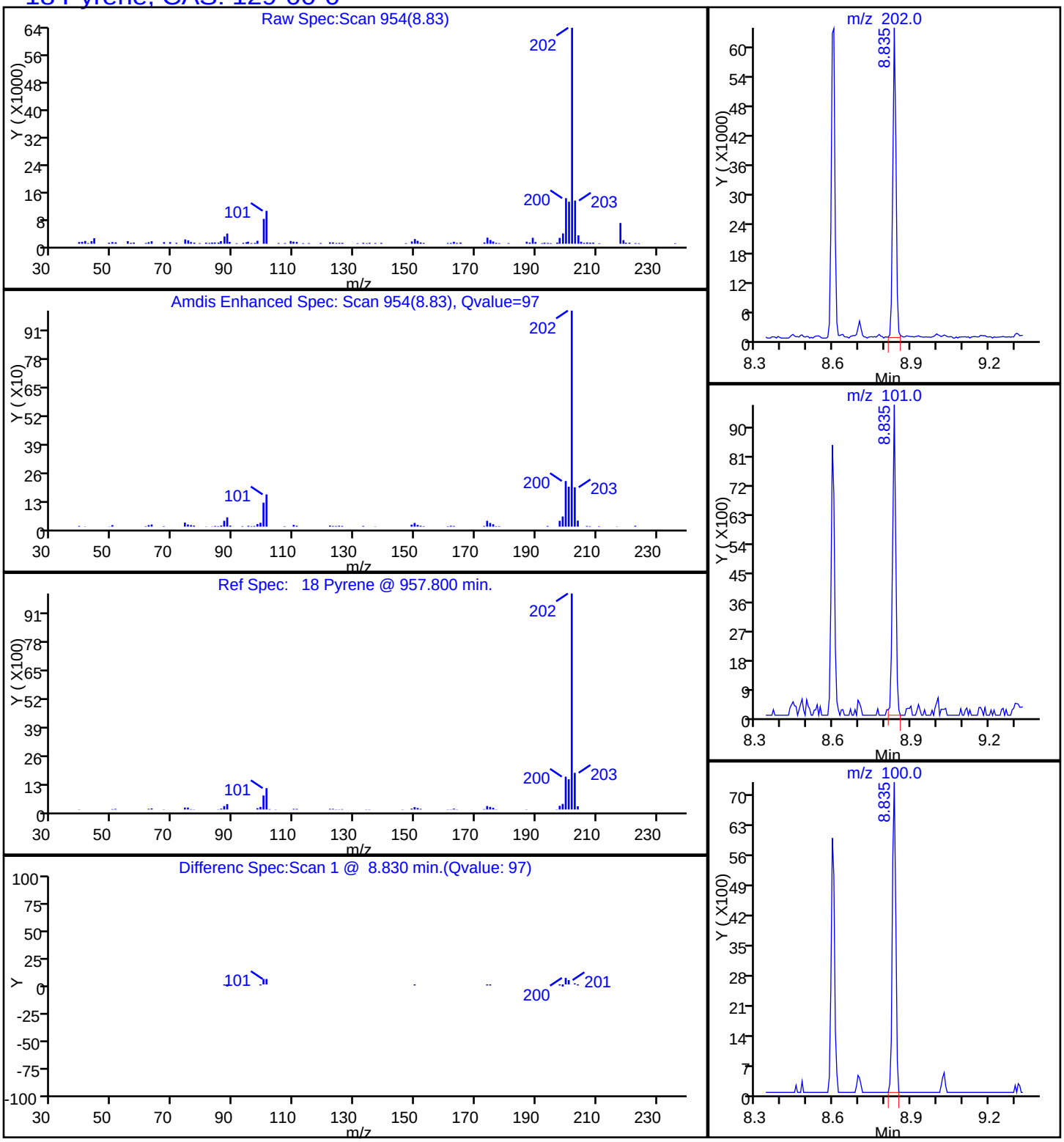


Report Date: 04-Nov-2014 09:15:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0325.D				
Injection Date:	03-Nov-2014 19:27:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-17-A	Lab Sample ID:	680-106803-17		
Client ID:	CV0971AP-GS18"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

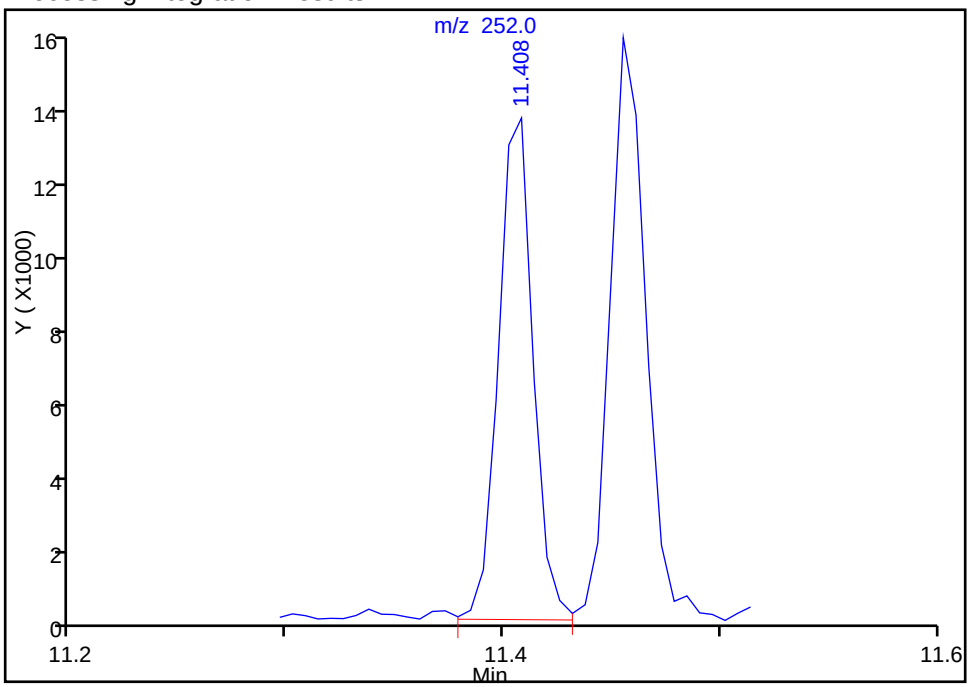
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0325.D				
Injection Date:	03-Nov-2014 19:27:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-17-A	Lab Sample ID:	680-106803-17		
Client ID:	CV0971AP-GS18"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

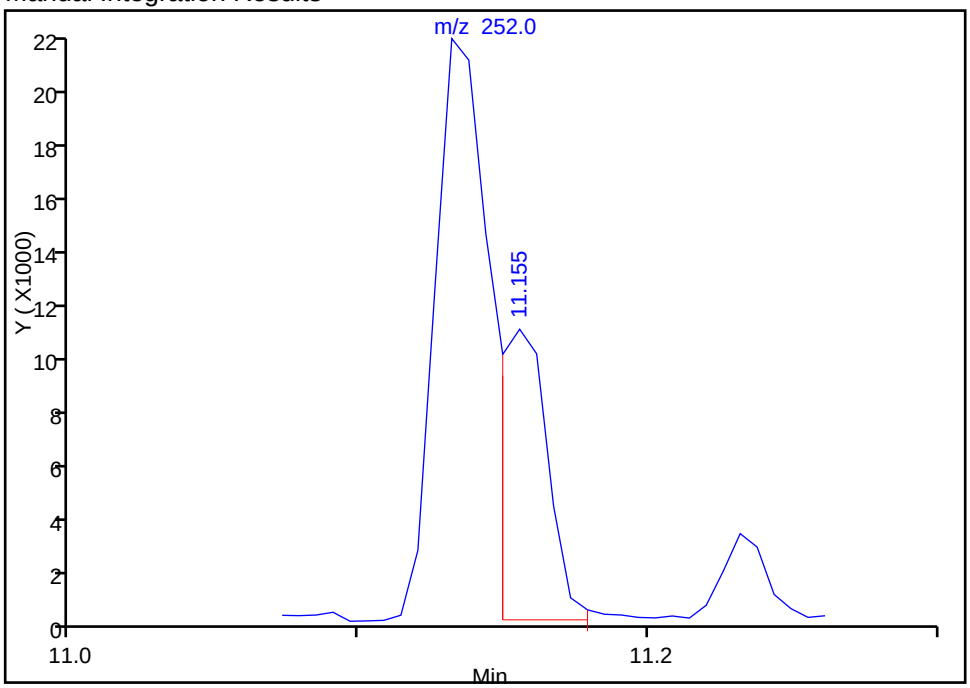
Processing Integration Results

RT: 11.41
Response: 14216
Amount: 0.155580



Manual Integration Results

RT: 11.16
Response: 12677
Amount: 0.138738



Reviewer: webbk, 04-Nov-2014 09:10:40
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971AP-GS24" | Lab Sample ID: 680-106803-18

Matrix: Solid | Lab File ID: 1KK0326.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 12:05

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.01(g) | Date Analyzed: 11/03/2014 19:50

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

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

% Moisture: 15.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	79	U	79	39
208-96-8	Acenaphthylene	79	U	79	39
120-12-7	Anthracene	79	U	79	39
56-55-3	Benzo[a]anthracene	79	U	79	39
50-32-8	Benzo[a]pyrene	24	J	79	14
205-99-2	Benzo[b]fluoranthene	39	J	79	39
191-24-2	Benzo[g,h,i]perylene	79	U	79	39
207-08-9	Benzo[k]fluoranthene	79	U	79	24
218-01-9	Chrysene	79	U	79	39
53-70-3	Dibenz(a,h)anthracene	79	U	79	39
206-44-0	Fluoranthene	79	U	79	39
86-73-7	Fluorene	79	U	79	39
193-39-5	Indeno[1,2,3-cd]pyrene	79	U	79	39
90-12-0	1-Methylnaphthalene	79	U	79	37
91-57-6	2-Methylnaphthalene	79	U	79	39
91-20-3	Naphthalene	79	U	79	39
85-01-8	Phenanthrene	79	U	79	28
129-00-0	Pyrene	79	U	79	39

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\20141103-14354.b\1KK0326.D				
Lims ID:	680-106803-B-18-A	Lab Sample ID:	680-106803-18		
Client ID:	CV0971AP-GS24"				
Sample Type:	Client				
Inject. Date:	03-Nov-2014 19:50:30	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	680-106803-B-18-A 1:10				
Misc. Info.:	680-0014354-026				
Operator ID:	RM	Instrument ID:	CMSK		

Method:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m		
Limit Group:	8270D_LL_PAH		
Last Update:	05-Nov-2014 14:20:00	Calib Date:	22-Oct-2014 16:17:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D		

Column 1 :	Restek RXi-5Sil MS (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK013	

First Level Reviewer: webbk Date: 04-Nov-2014 09:11:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.893	3.893	0.000	99	394747	2.00	
* 2 Acenaphthene-d10	164	5.668	5.662	0.006	92	215241	2.00	
* 3 Phenanthrene-d10	188	7.272	7.266	0.006	98	300040	2.00	
* 4 Chrysene-d12	240	10.098	10.092	0.006	99	177428	2.00	
* 5 Perylene-d12	264	11.508	11.496	0.012	99	125532	2.00	
8 1-Methylnaphthalene	142	4.686	4.680	0.006	60	3673	0.0288	7
15 Phenanthrene	178	7.295	7.289	0.006	35	8313	0.0455	7
16 Anthracene	178	7.348	7.348	0.000	30	1196	0.006959	7
17 Fluoranthene	202	8.594	8.594	0.000	97	14425	0.0789	
18 Pyrene	202	8.835	8.829	0.006	95	12290	0.0772	
20 Chrysene	228	10.121	10.115	0.006	98	7080	0.0708	
21 Benzo[b]fluoranthene	252	11.126	11.114	0.012	97	8060	0.0993	
22 Benzo[k]fluoranthene	252	11.150	11.138	0.012	96	3435	0.0409	7M
23 Benzo[a]pyrene	252	11.449	11.437	0.012	93	4278	0.0604	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

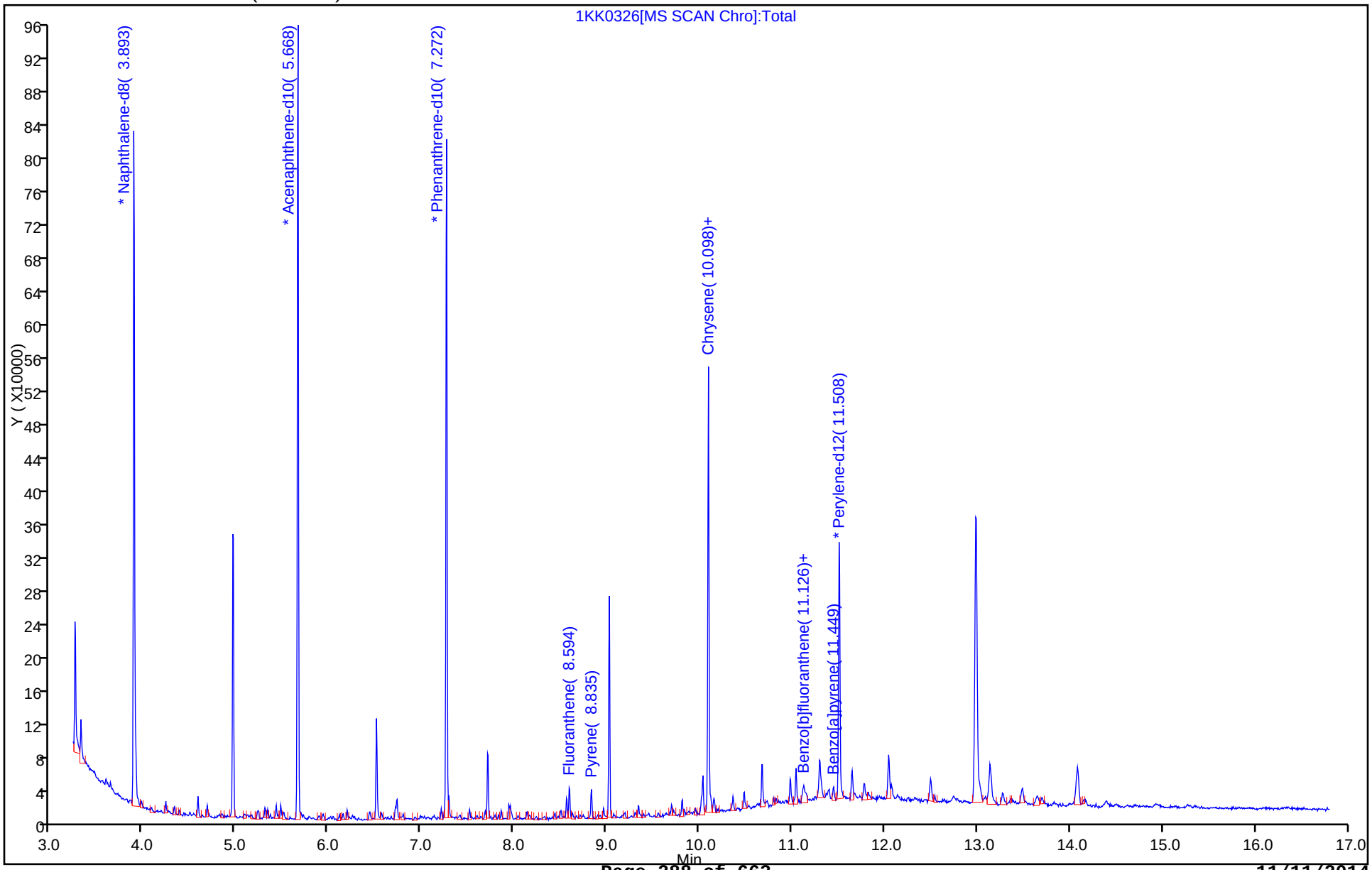
SM-LLISTD_00110 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 05-Nov-2014 14:20:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0326.D				
Injection Date:	03-Nov-2014 19:50:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-18-A	Lab Sample ID:	680-106803-18	Worklist Smp#:	26
Client ID:	CV0971AP-GS24"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	26
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

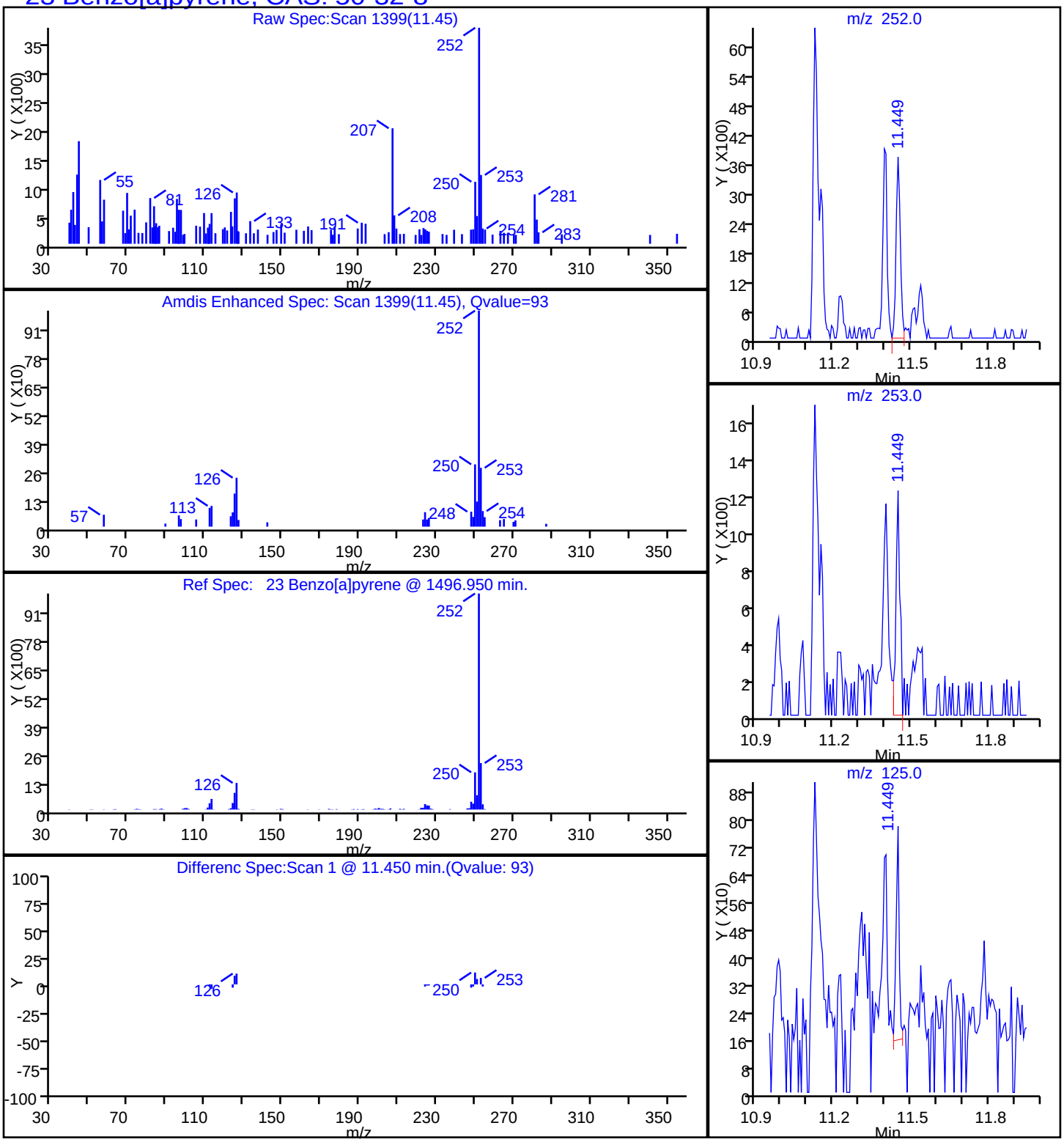


Report Date: 05-Nov-2014 14:20:14 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0326.D				
Injection Date:	03-Nov-2014 19:50:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-18-A	Lab Sample ID:	680-106803-18		
Client ID:	CV0971AP-GS24"				
Operator ID:	RM	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

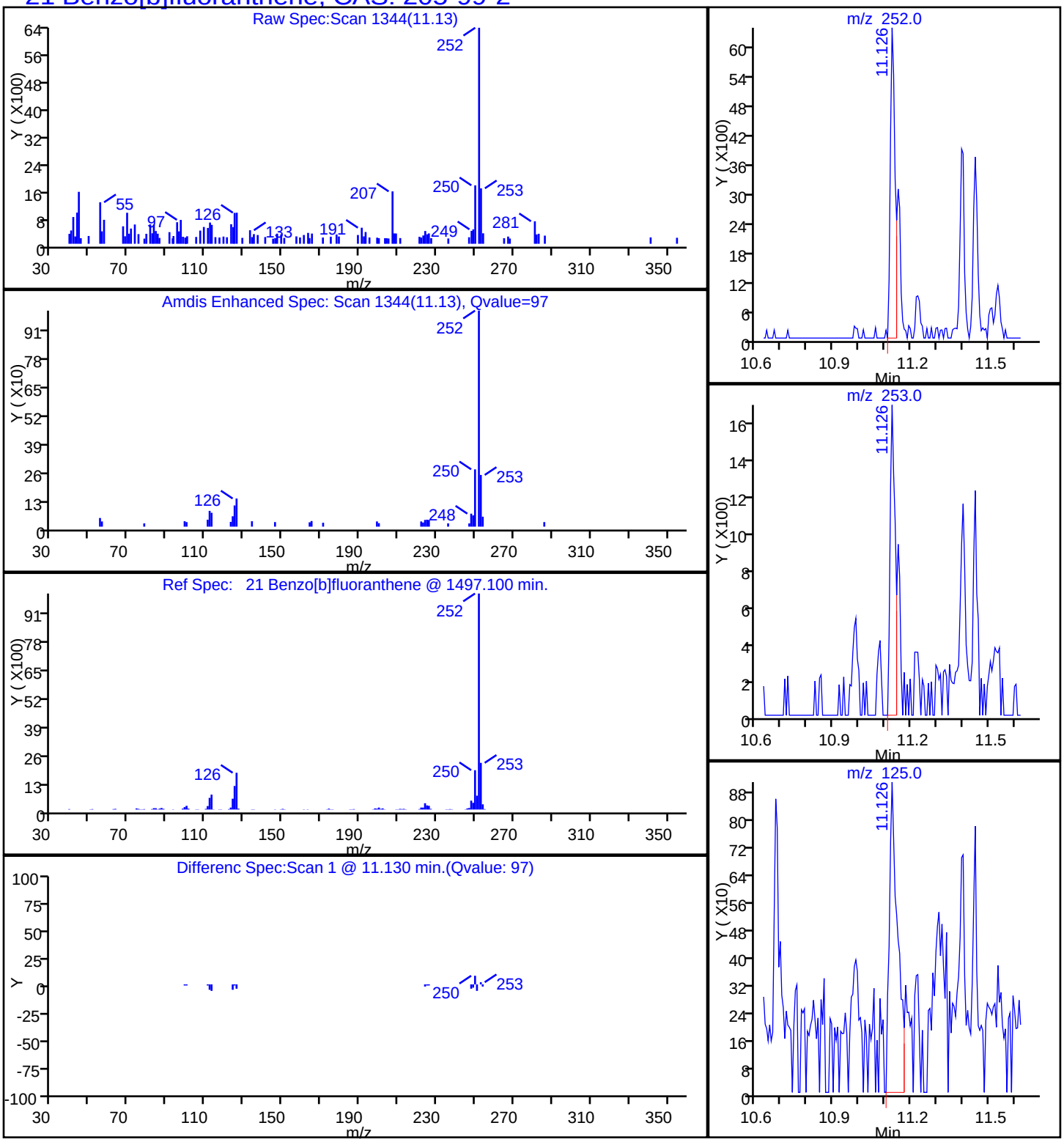


Report Date: 05-Nov-2014 14:20:14 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0326.D				
Injection Date:	03-Nov-2014 19:50:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-18-A	Lab Sample ID:	680-106803-18		
Client ID:	CV0971AP-GS24"				
Operator ID:	RM	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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



Manual Integration/User Assign Peak Report

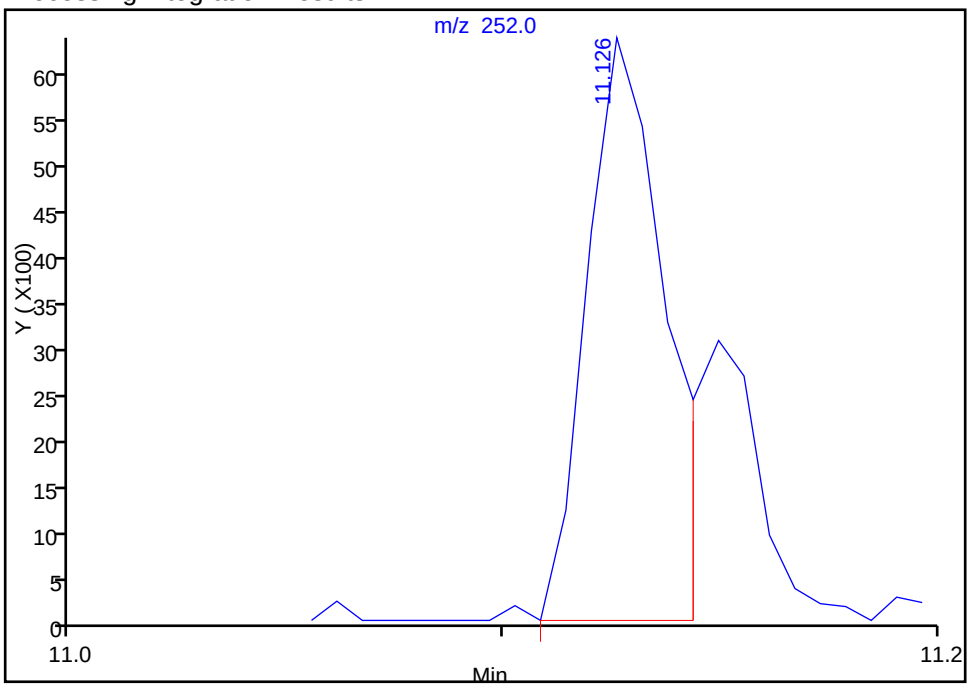
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0326.D				
Injection Date:	03-Nov-2014 19:50:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-18-A	Lab Sample ID:	680-106803-18		
Client ID:	CV0971AP-GS24"				
Operator ID:	RM	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

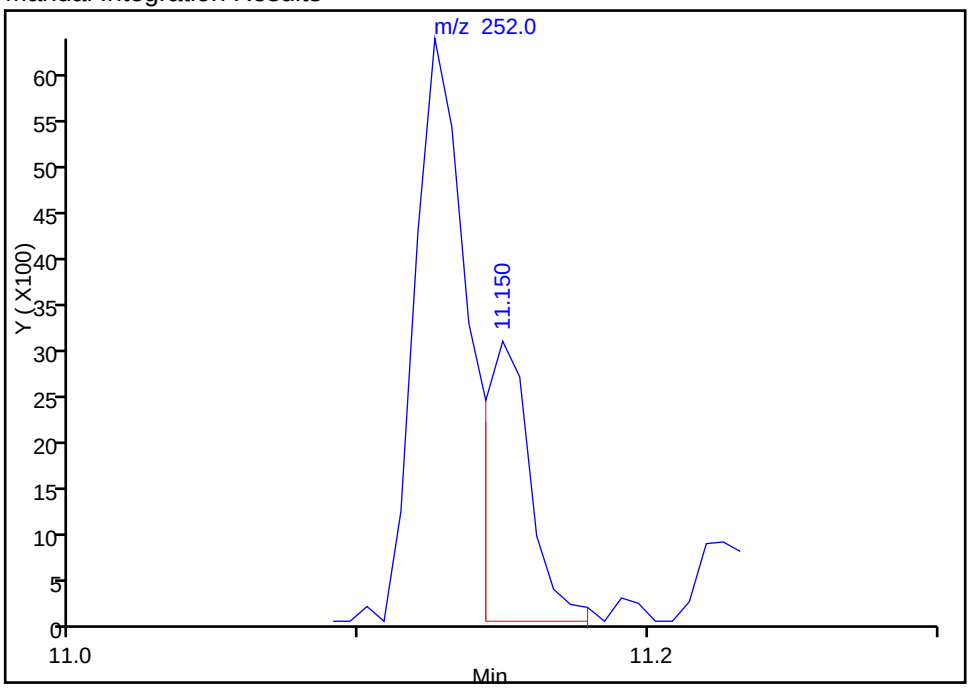
Processing Integration Results

RT: 11.13
Response: 8060
Amount: 0.095921



Manual Integration Results

RT: 11.15
Response: 3435
Amount: 0.040879



Reviewer: webbk, 04-Nov-2014 09:11:25
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971AD-GS6" | Lab Sample ID: 680-106803-19

Matrix: Solid | Lab File ID: 1KK0327.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 12:50

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.05(g) | Date Analyzed: 11/03/2014 20:13

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

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

% Moisture: 18.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	8.2	U	8.2	4.0
208-96-8	Acenaphthylene	8.2	U	8.2	4.0
120-12-7	Anthracene	8.2	U	8.2	4.0
56-55-3	Benzo[a]anthracene	6.3	J	8.2	4.0
50-32-8	Benzo[a]pyrene	6.4	J	8.2	1.5
205-99-2	Benzo[b]fluoranthene	12		8.2	4.0
191-24-2	Benzo[g,h,i]perylene	8.2	U	8.2	4.0
207-08-9	Benzo[k]fluoranthene	4.3	J	8.2	2.5
218-01-9	Chrysene	8.6		8.2	4.0
53-70-3	Dibenz(a,h)anthracene	8.2	U	8.2	4.0
206-44-0	Fluoranthene	7.9	J	8.2	4.0
86-73-7	Fluorene	8.2	U	8.2	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	8.2	U	8.2	4.0
90-12-0	1-Methylnaphthalene	8.2	U	8.2	3.8
91-57-6	2-Methylnaphthalene	8.2	U	8.2	4.0
91-20-3	Naphthalene	8.2	U	8.2	4.0
85-01-8	Phenanthrene	7.0	J	8.2	2.9
129-00-0	Pyrene	7.7	J	8.2	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	49		36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0327.D
Lims ID: 680-106803-B-19-A Lab Sample ID: 680-106803-19
Client ID: CV0971AD-GS6"
Sample Type: Client
Inject. Date: 03-Nov-2014 20:13:30 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-106803-B-19-A
Misc. Info.: 680-0014354-027
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 04-Nov-2014 09:15:09 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 04-Nov-2014 09:12:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.893	3.893	0.000	99	862112	4.00	s
* 2 Acenaphthene-d10	164	5.668	5.662	0.006	91	473306	4.00	s
* 3 Phenanthrene-d10	188	7.272	7.266	0.006	98	698652	4.00	s
* 4 Chrysene-d12	240	10.098	10.092	0.006	99	465133	4.00	s
* 5 Perylene-d12	264	11.514	11.496	0.018	99	305915	4.00	
$ 6 o-Terphenyl	230	7.718	7.712	0.006	90	142372	0.9883	
9 2-Methylnaphthalene	142	4.581	4.586	-0.005	85	10876	0.0738	
8 1-Methylnaphthalene	142	4.680	4.680	0.000	92	10972	0.0787	
15 Phenanthrene	178	7.295	7.289	0.006	96	36707	0.1725	
16 Anthracene	178	7.348	7.348	0.000	68	4062	0.0203	7
17 Fluoranthene	202	8.594	8.594	0.000	98	41171	0.1933	
18 Pyrene	202	8.835	8.829	0.006	96	39160	0.1876	
19 Benzo[a]anthracene	228	10.092	10.080	0.012	97	21368	0.1539	
20 Chrysene	228	10.121	10.115	0.006	98	27581	0.2104	
21 Benzo[b]fluoranthene	252	11.126	11.114	0.012	98	29780	0.3011	
22 Benzo[k]fluoranthene	252	11.144	11.138	0.006	97	10670	0.1042	M
23 Benzo[a]pyrene	252	11.449	11.437	0.012	97	13454	0.1558	
26 Benzo[g,h,i]perylene	276	13.159	13.141	0.018	96	7869	0.0898	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
s - Failed ISTD Recovery Test
Review Flags
M - Manually Integrated

Reagents:

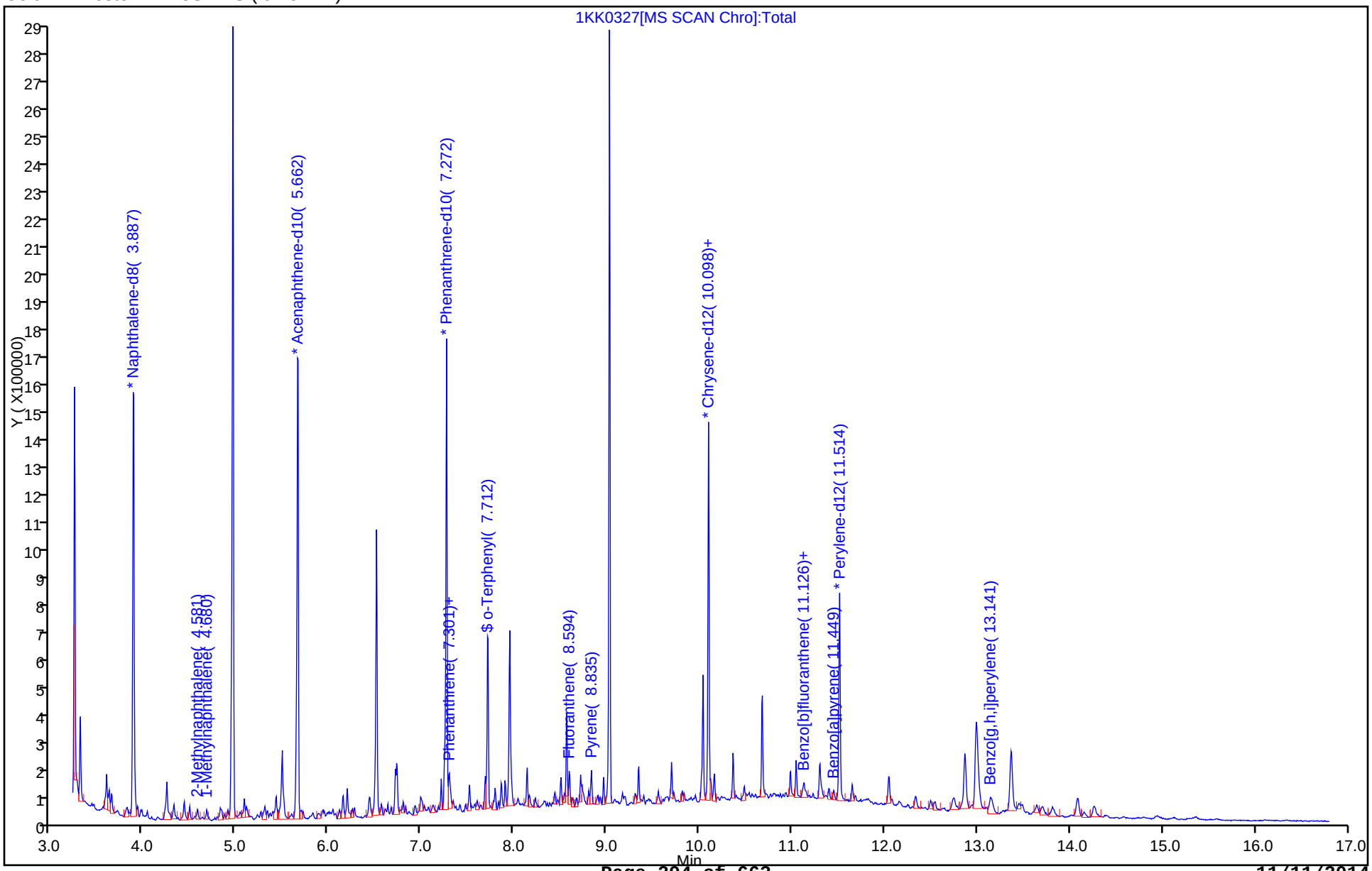
SM-LLISTD_00110 Amount Added: 20.00 Units: uL

Report Date: 04-Nov-2014 09:15:11 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0327.D				
Injection Date:	03-Nov-2014 20:13:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-19-A	Lab Sample ID:	680-106803-19	Worklist Smp#:	27
Client ID:	CV0971AD-GS6"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

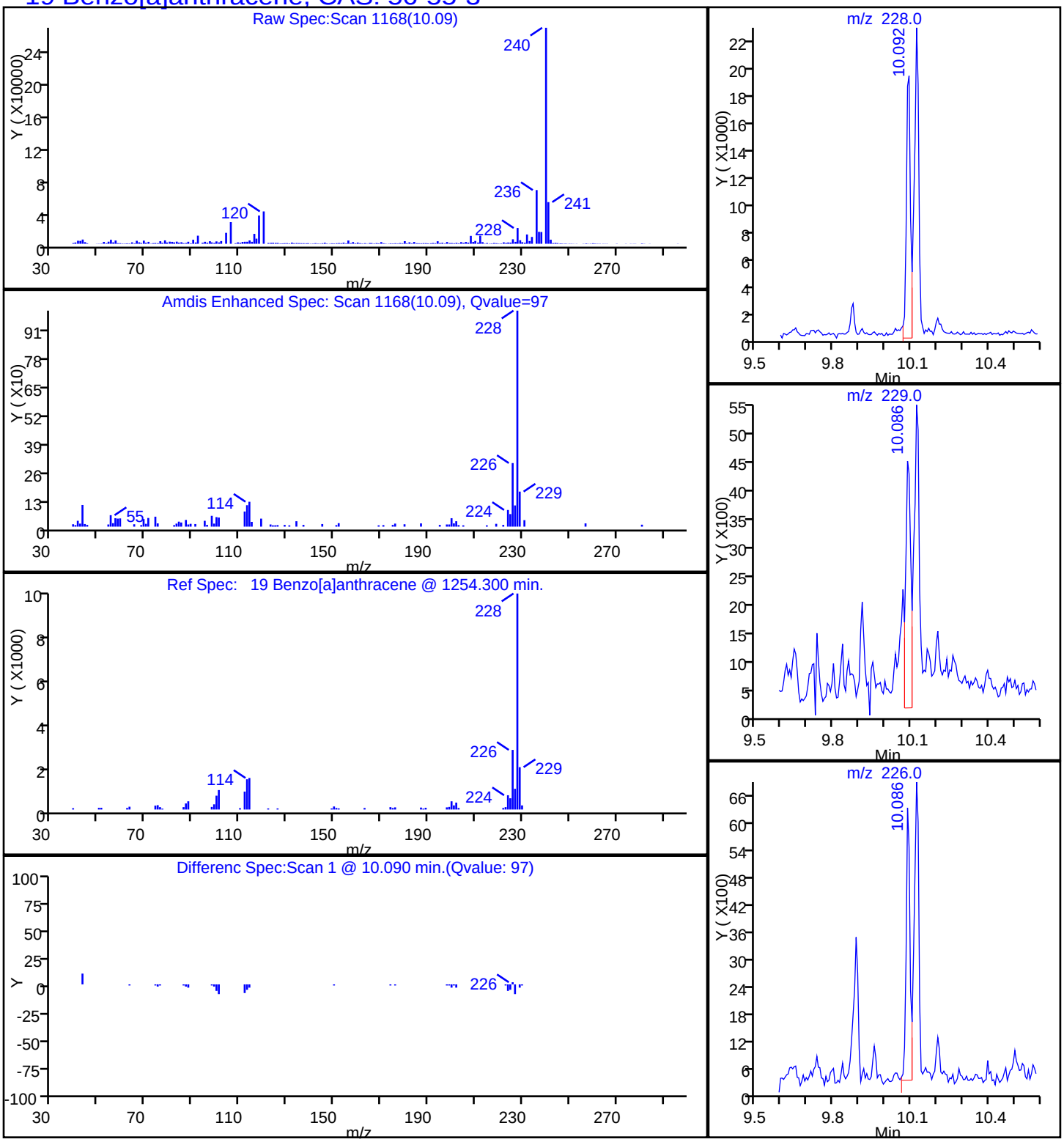


Report Date: 04-Nov-2014 09:15:12 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0327.D				
Injection Date:	03-Nov-2014 20:13:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-19-A	Lab Sample ID:	680-106803-19		
Client ID:	CV0971AD-GS6"				
Operator ID:	RM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

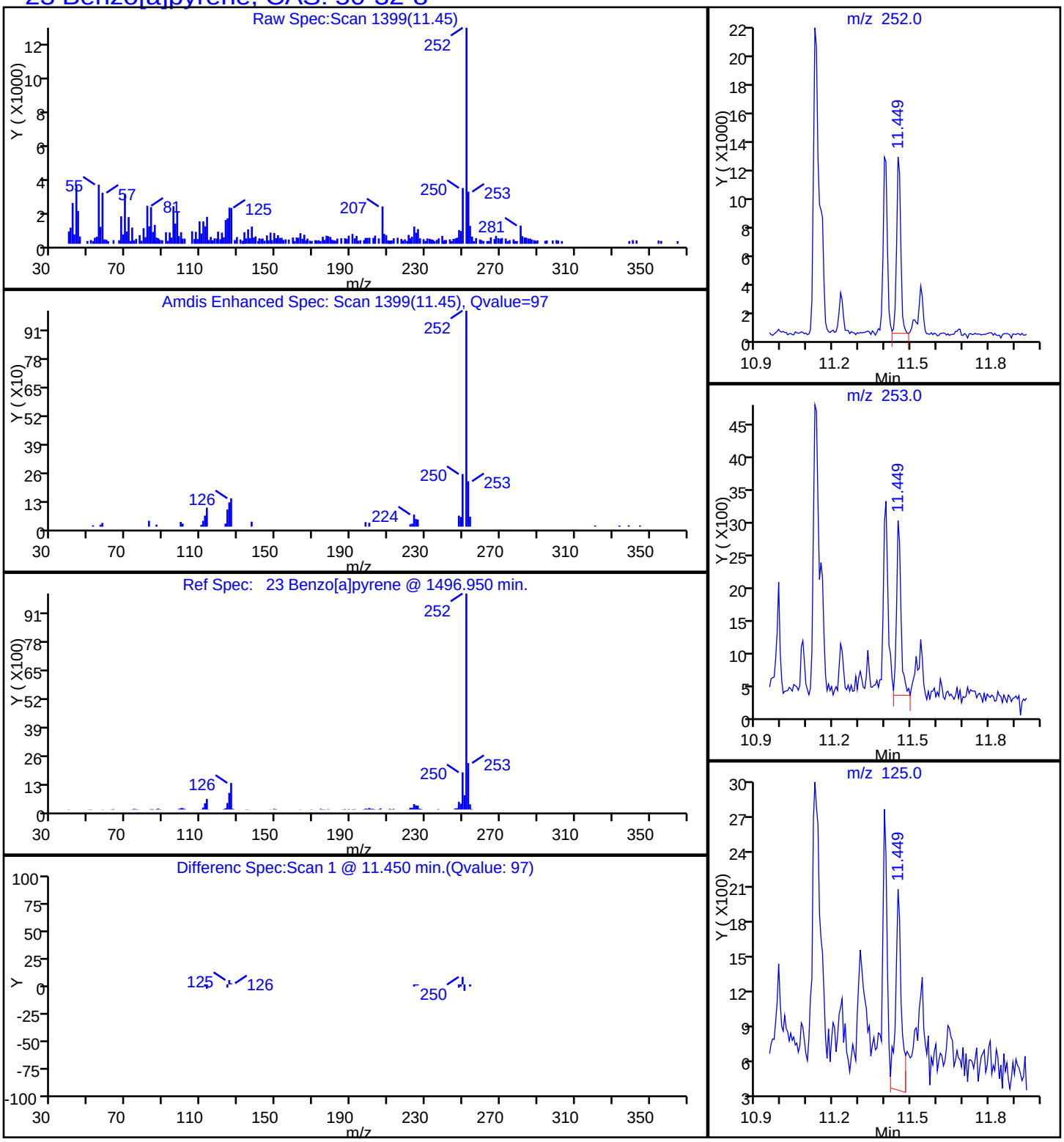


Report Date: 04-Nov-2014 09:15:12 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0327.D				
Injection Date:	03-Nov-2014 20:13:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-19-A	Lab Sample ID:	680-106803-19		
Client ID:	CV0971AD-GS6"				
Operator ID:	RM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

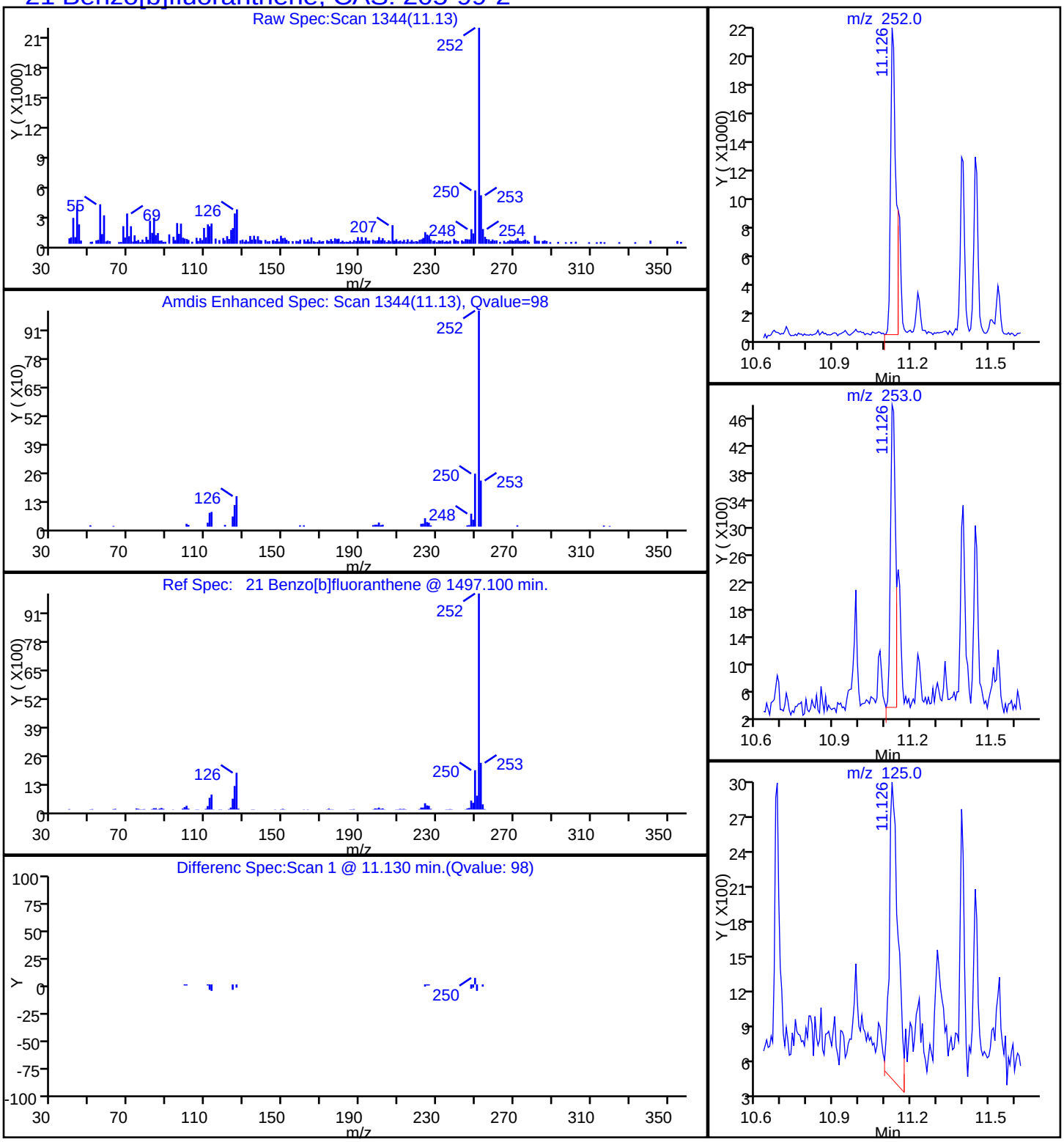


Report Date: 04-Nov-2014 09:15:12 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0327.D				
Injection Date:	03-Nov-2014 20:13:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-19-A	Lab Sample ID:	680-106803-19		
Client ID:	CV0971AD-GS6"				
Operator ID:	RM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

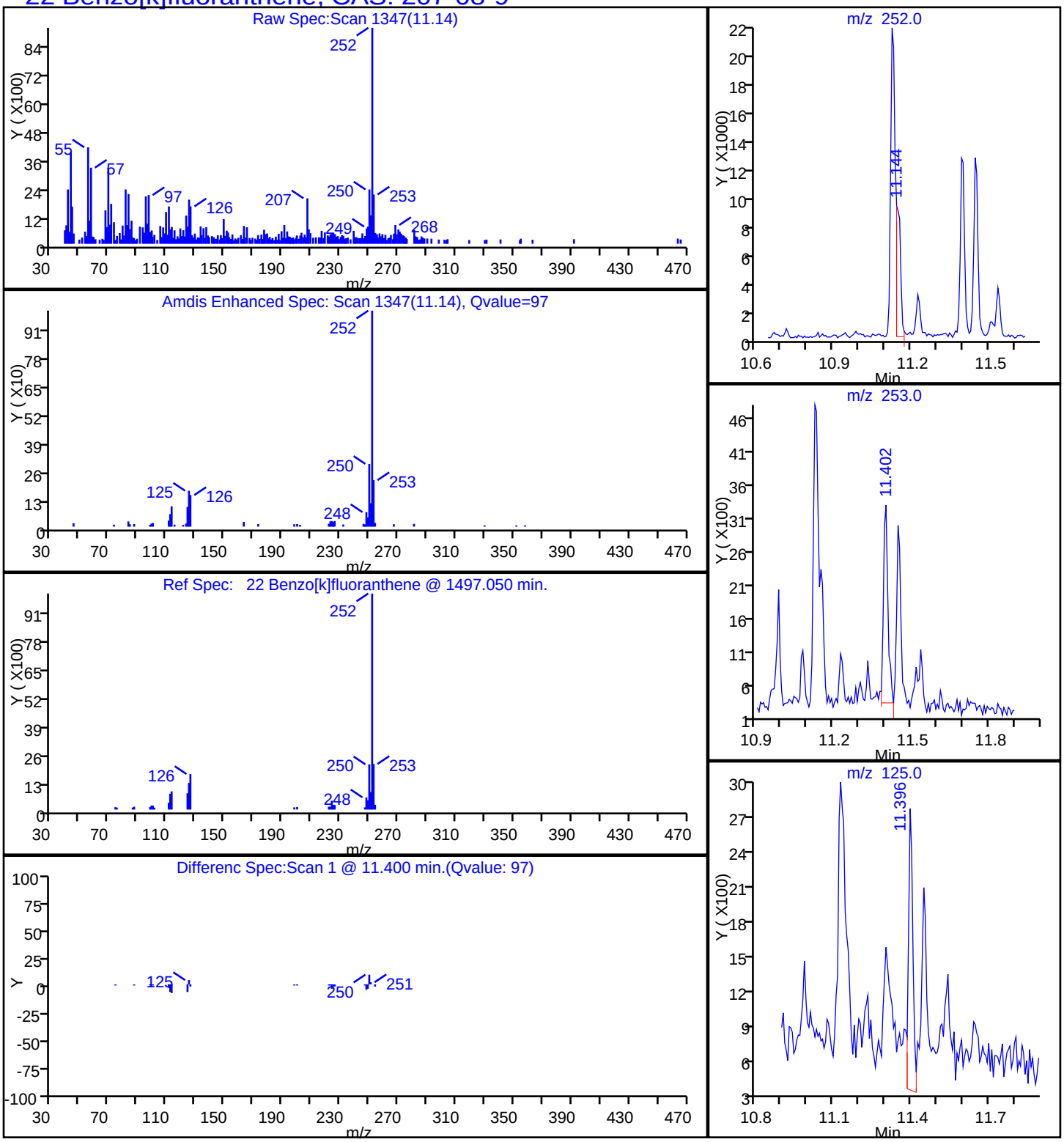


Report Date: 04-Nov-2014 09:15:12 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0327.D				
Injection Date:	03-Nov-2014 20:13:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-19-A	Lab Sample ID:	680-106803-19		
Client ID:	CV0971AD-GS6"				
Operator ID:	RM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

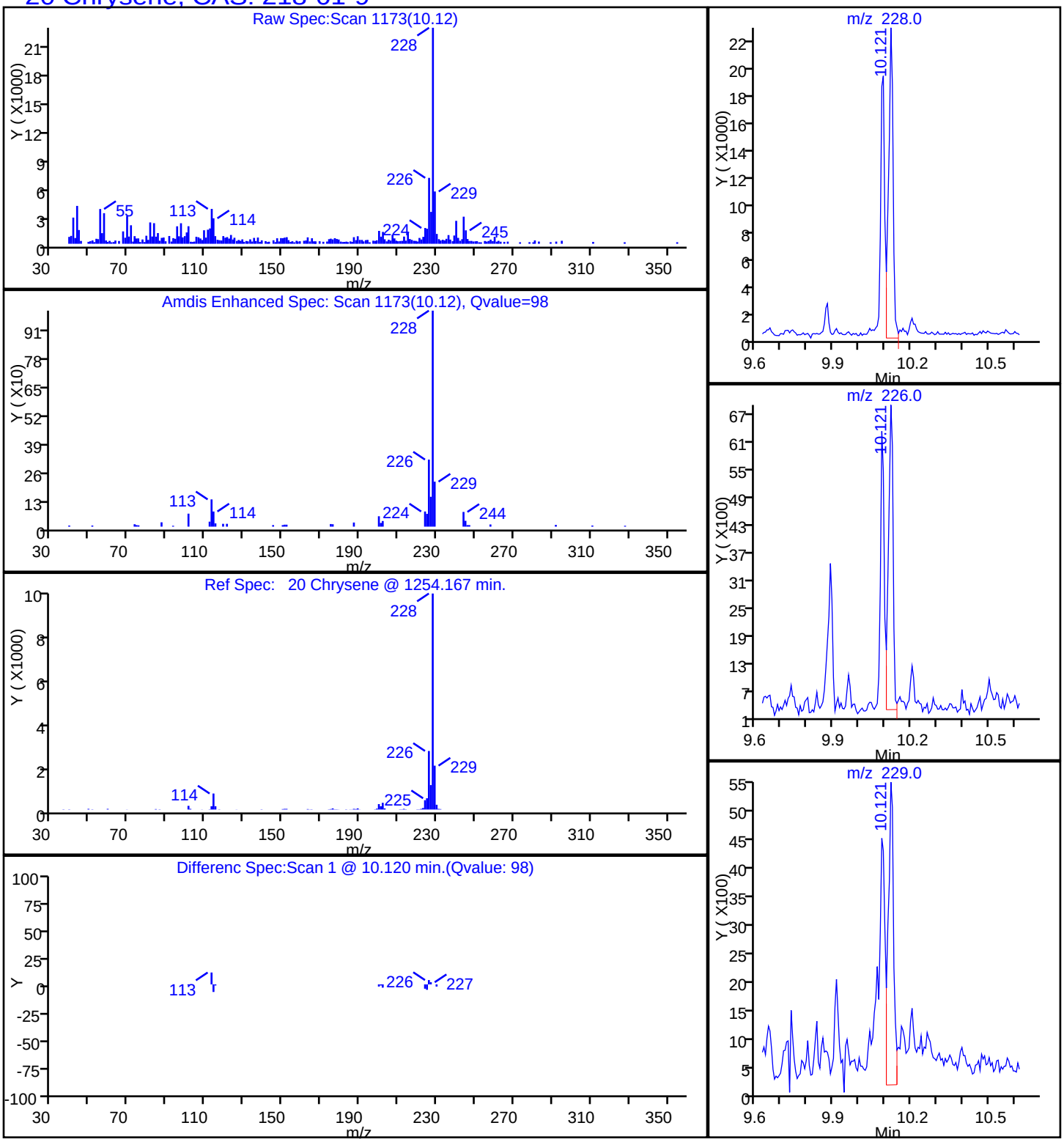


Report Date: 04-Nov-2014 09:15:12 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0327.D				
Injection Date:	03-Nov-2014 20:13:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-19-A	Lab Sample ID:	680-106803-19		
Client ID:	CV0971AD-GS6"				
Operator ID:	RM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

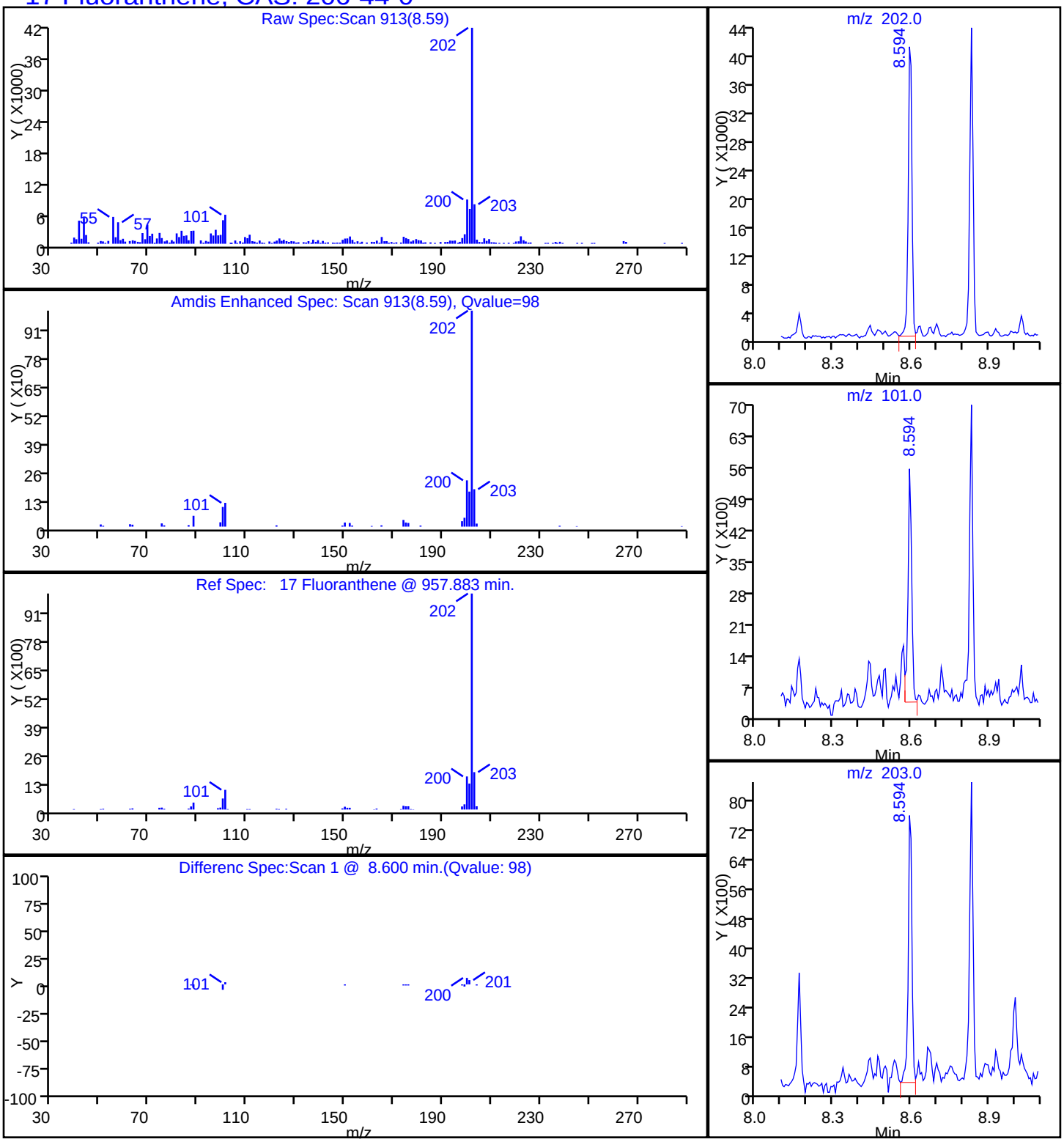


Report Date: 04-Nov-2014 09:15:11 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0327.D				
Injection Date:	03-Nov-2014 20:13:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-19-A	Lab Sample ID:	680-106803-19		
Client ID:	CV0971AD-GS6"				
Operator ID:	RM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

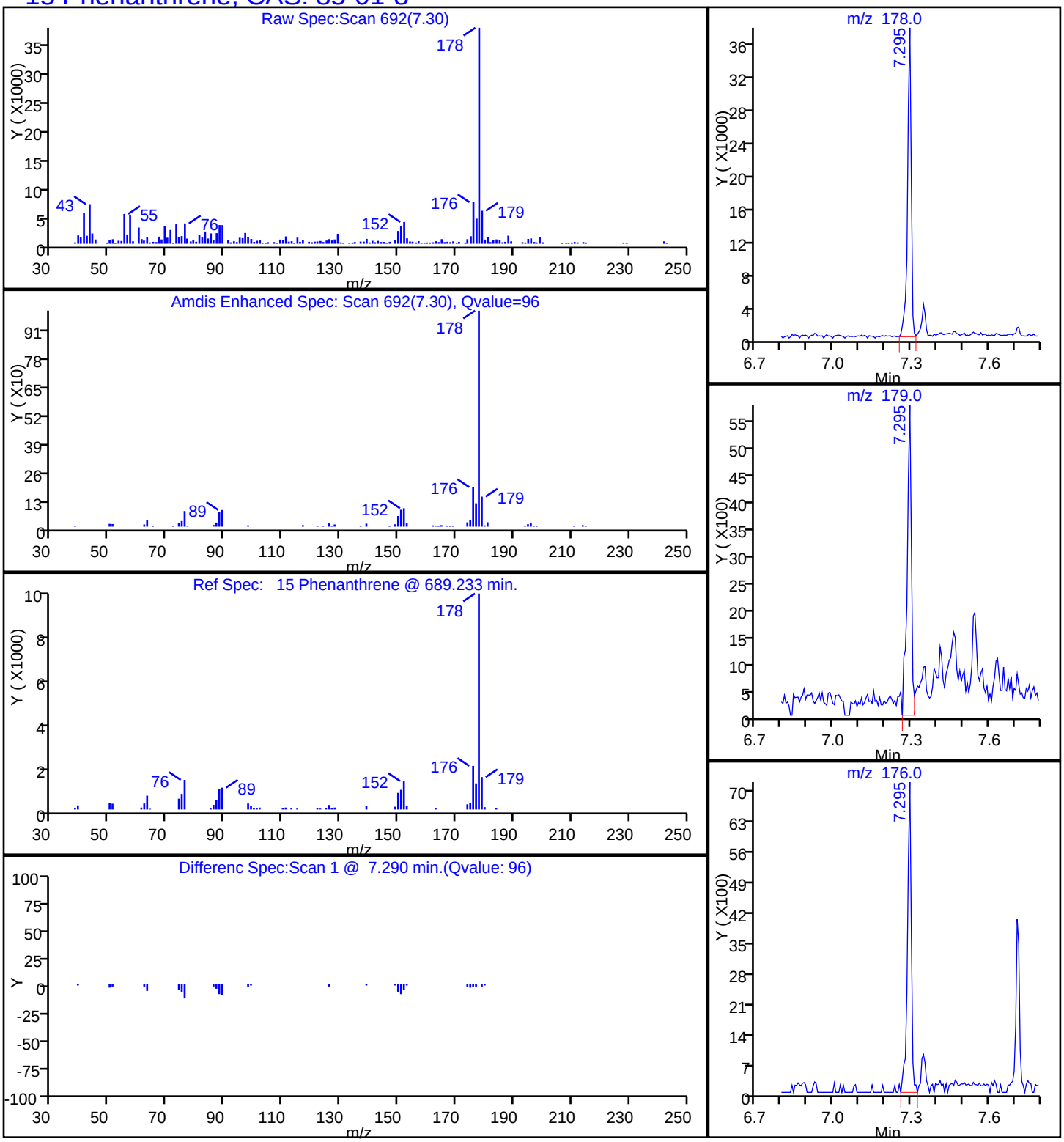


Report Date: 04-Nov-2014 09:15:11 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0327.D				
Injection Date:	03-Nov-2014 20:13:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-19-A	Lab Sample ID:	680-106803-19		
Client ID:	CV0971AD-GS6"				
Operator ID:	RM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

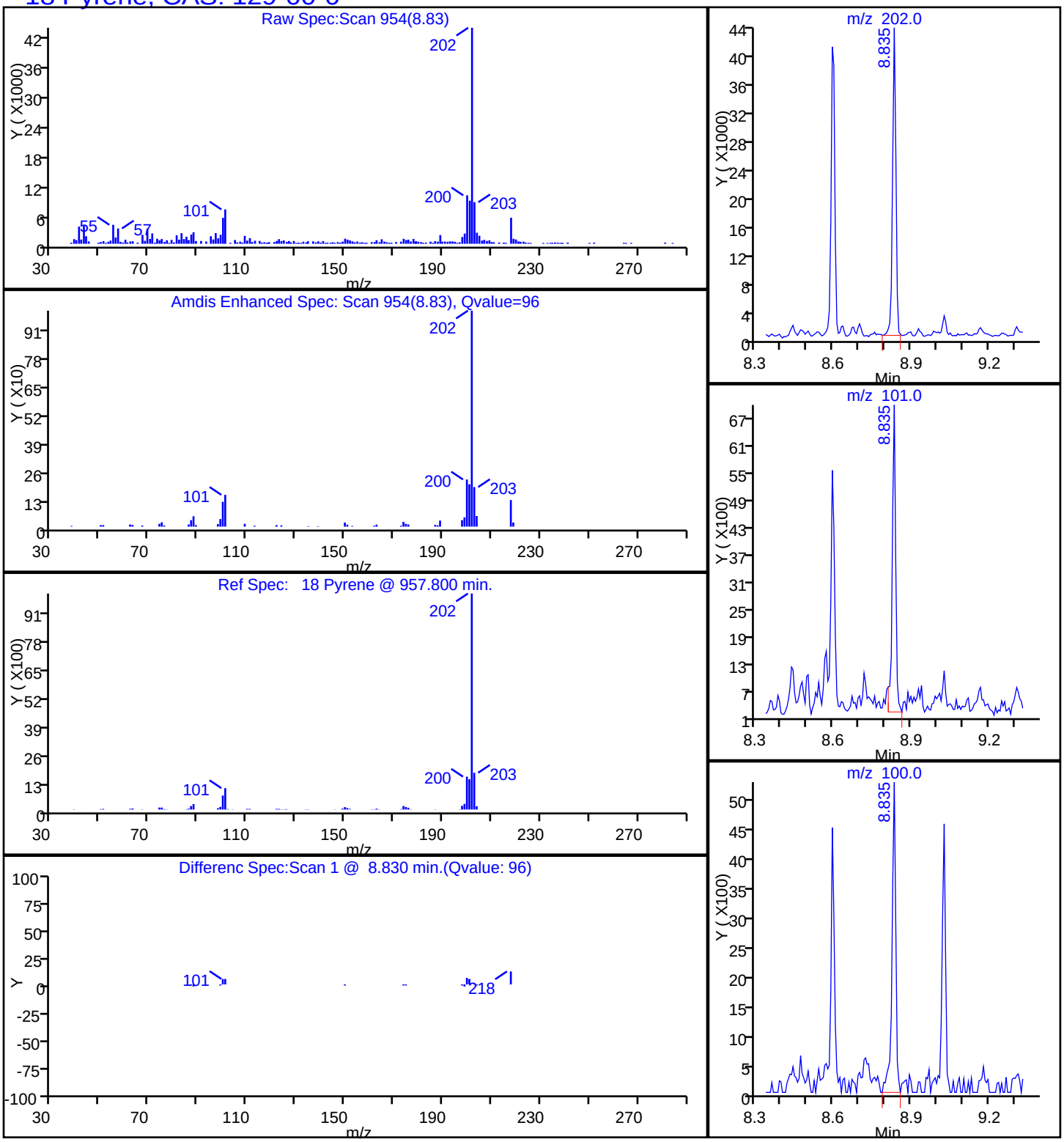


Report Date: 04-Nov-2014 09:15:11 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0327.D				
Injection Date:	03-Nov-2014 20:13:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-19-A	Lab Sample ID:	680-106803-19		
Client ID:	CV0971AD-GS6"				
Operator ID:	RM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

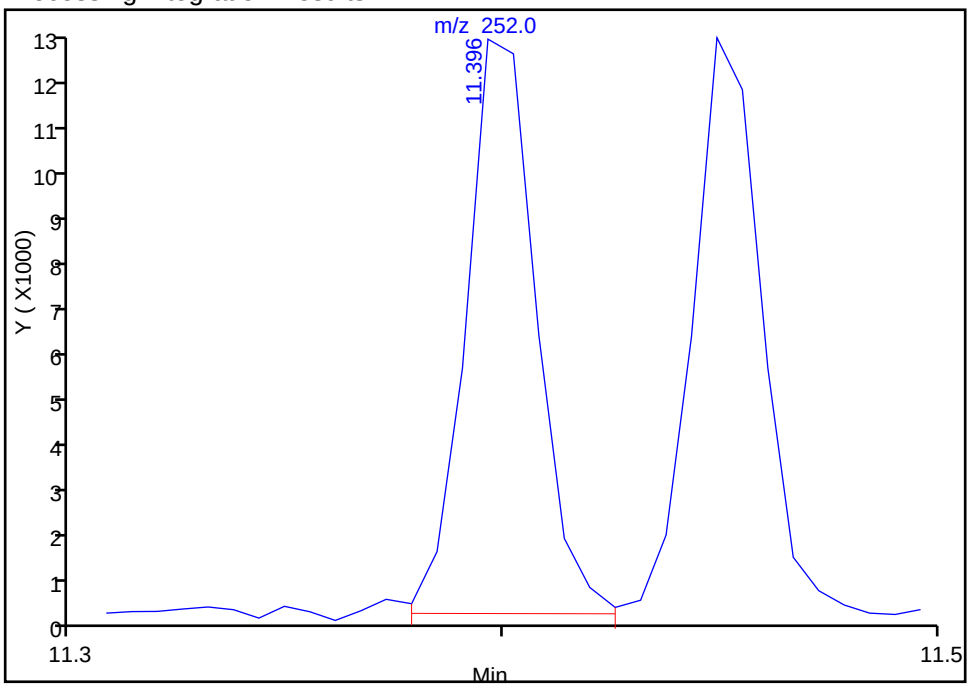
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0327.D				
Injection Date:	03-Nov-2014 20:13:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-19-A	Lab Sample ID:	680-106803-19		
Client ID:	CV0971AD-GS6"				
Operator ID:	RM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

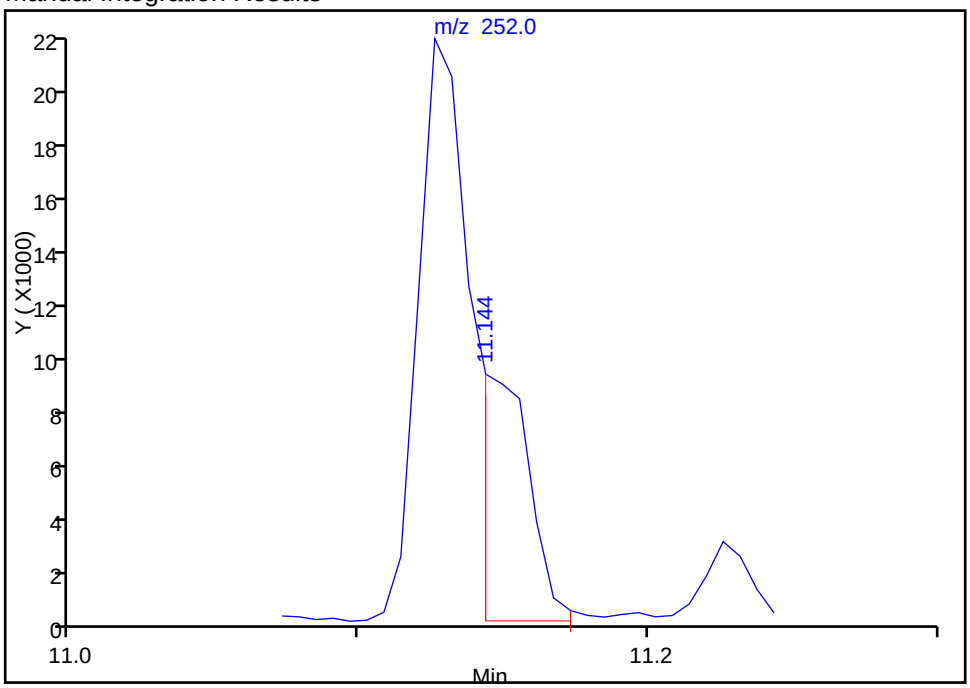
Processing Integration Results

RT: 11.40
Response: 13599
Amount: 0.132822



Manual Integration Results

RT: 11.14
Response: 10670
Amount: 0.104214



Reviewer: webbk, 04-Nov-2014 09:12:52
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971AD-GS12" | Lab Sample ID: 680-106803-20

Matrix: Solid | Lab File ID: 1KK0328.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/28/2014 13:00

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.04(g) | Date Analyzed: 11/03/2014 20:36

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

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

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	8.2	U	8.2	4.1
208-96-8	Acenaphthylene	8.2	U	8.2	4.1
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	8.2		8.2	4.1
50-32-8	Benzo[a]pyrene	8.1	J	8.2	1.5
205-99-2	Benzo[b]fluoranthene	13		8.2	4.1
191-24-2	Benzo[g,h,i]perylene	8.2	U	8.2	4.1
207-08-9	Benzo[k]fluoranthene	5.2	J	8.2	2.5
218-01-9	Chrysene	9.6		8.2	4.1
53-70-3	Dibenz(a,h)anthracene	8.2	U	8.2	4.1
206-44-0	Fluoranthene	15		8.2	4.1
86-73-7	Fluorene	8.2	U	8.2	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	8.2	U	8.2	4.1
90-12-0	1-Methylnaphthalene	8.2	U	8.2	3.8
91-57-6	2-Methylnaphthalene	8.2	U	8.2	4.1
91-20-3	Naphthalene	8.2	U	8.2	4.1
85-01-8	Phenanthrene	8.5		8.2	3.0
129-00-0	Pyrene	13		8.2	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0328.D
Lims ID: 680-106803-B-20-A Lab Sample ID: 680-106803-20
Client ID: CV0971AD-GS12"
Sample Type: Client
Inject. Date: 03-Nov-2014 20:36:30 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-106803-B-20-A
Misc. Info.: 680-0014354-028
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 04-Nov-2014 09:15:09 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 04-Nov-2014 09:13:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.887	3.893	-0.006	99	790327	4.00	s
* 2 Acenaphthene-d10	164	5.662	5.662	0.000	91	434631	4.00	s
* 3 Phenanthrene-d10	188	7.272	7.266	0.006	98	669303	4.00	s
* 4 Chrysene-d12	240	10.098	10.092	0.006	100	457151	4.00	s
* 5 Perylene-d12	264	11.520	11.496	0.024	99	278934	4.00	
$ 6 o-Terphenyl	230	7.712	7.712	0.000	89	163991	1.16	
15 Phenanthrene	178	7.295	7.289	0.006	97	42423	0.2081	
16 Anthracene	178	7.348	7.348	0.000	62	6241	0.0326	7
17 Fluoranthene	202	8.594	8.594	0.000	97	72526	0.3555	
18 Pyrene	202	8.835	8.829	0.005	97	64205	0.3130	
19 Benzo[a]anthracene	228	10.092	10.080	0.012	97	27284	0.1999	
20 Chrysene	228	10.121	10.115	0.006	98	30128	0.2338	
21 Benzo[b]fluoranthene	252	11.138	11.114	0.024	97	27556	0.3055	
22 Benzo[k]fluoranthene	252	11.155	11.138	0.017	97	11834	0.1268	M
23 Benzo[a]pyrene	252	11.455	11.437	0.018	96	15475	0.1966	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
s - Failed ISTD Recovery Test
Review Flags
M - Manually Integrated

Reagents:

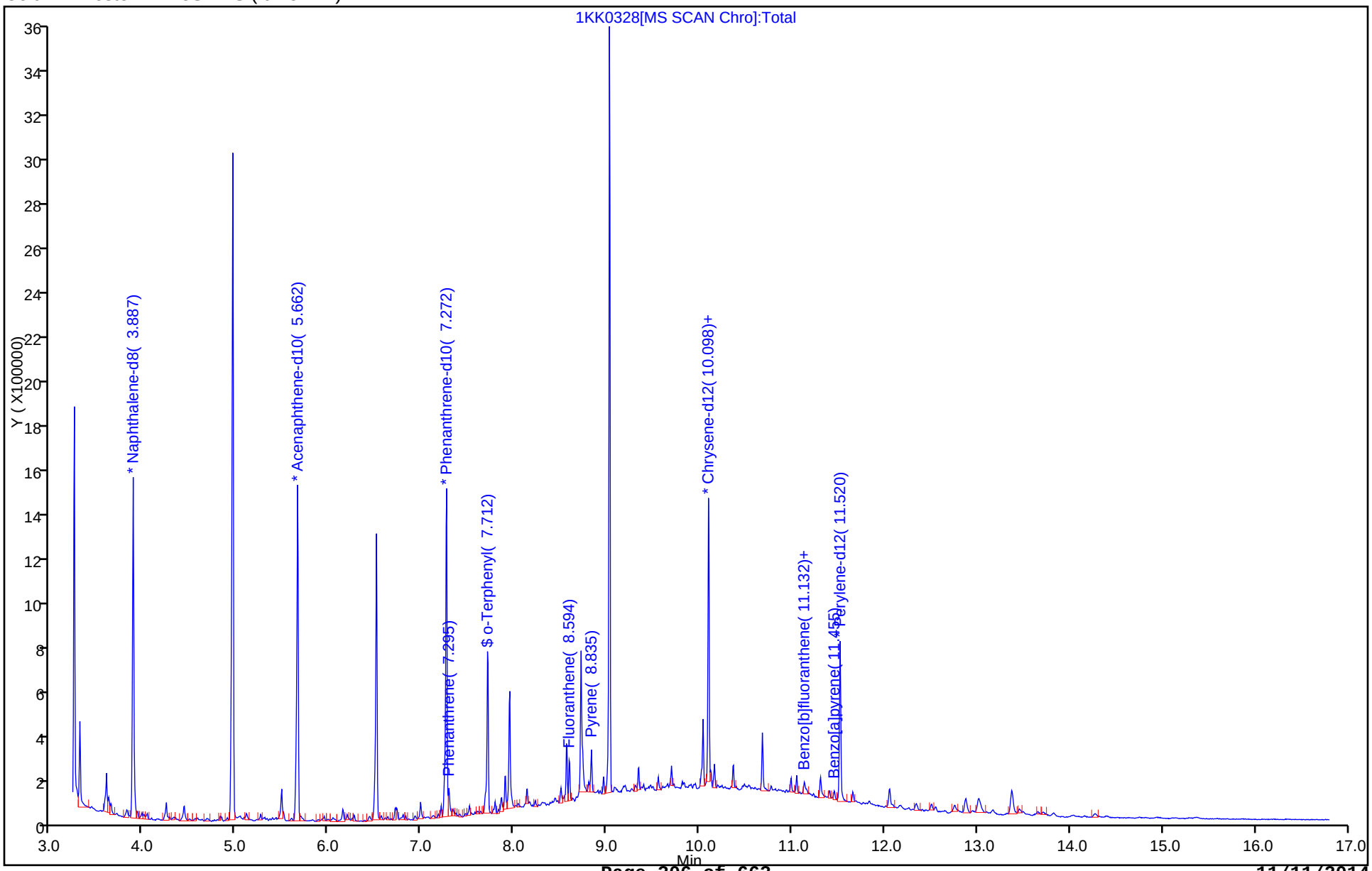
SM-LLISTD_00110 Amount Added: 20.00 Units: uL

Report Date: 04-Nov-2014 09:15:10 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0328.D				
Injection Date:	03-Nov-2014 20:36:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-20-A	Lab Sample ID:	680-106803-20	Worklist Smp#:	28
Client ID:	CV0971AD-GS12"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

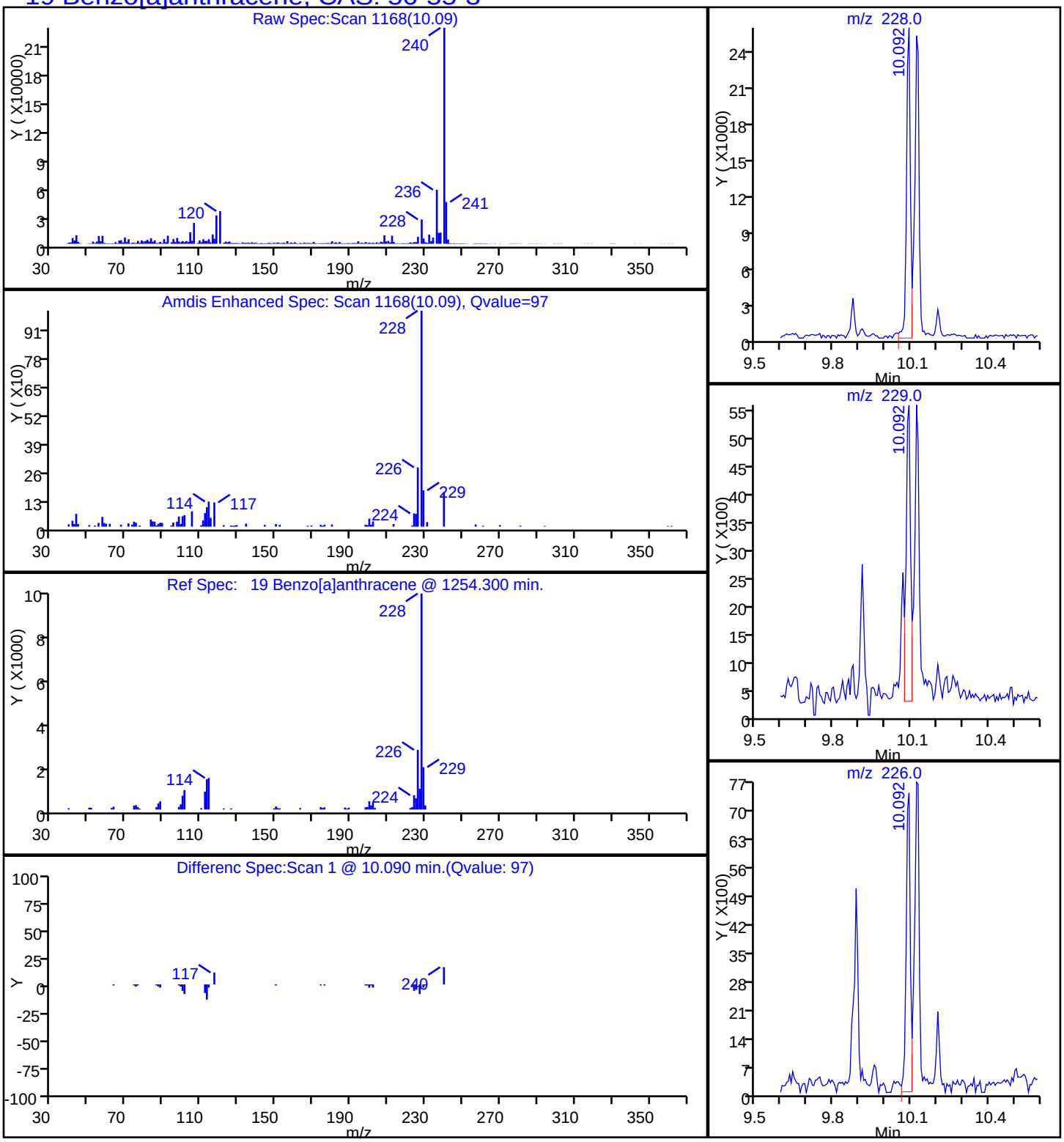


Report Date: 04-Nov-2014 09:15:10 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0328.D				
Injection Date:	03-Nov-2014 20:36:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-20-A	Lab Sample ID:	680-106803-20		
Client ID:	CV0971AD-GS12"				
Operator ID:	RM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

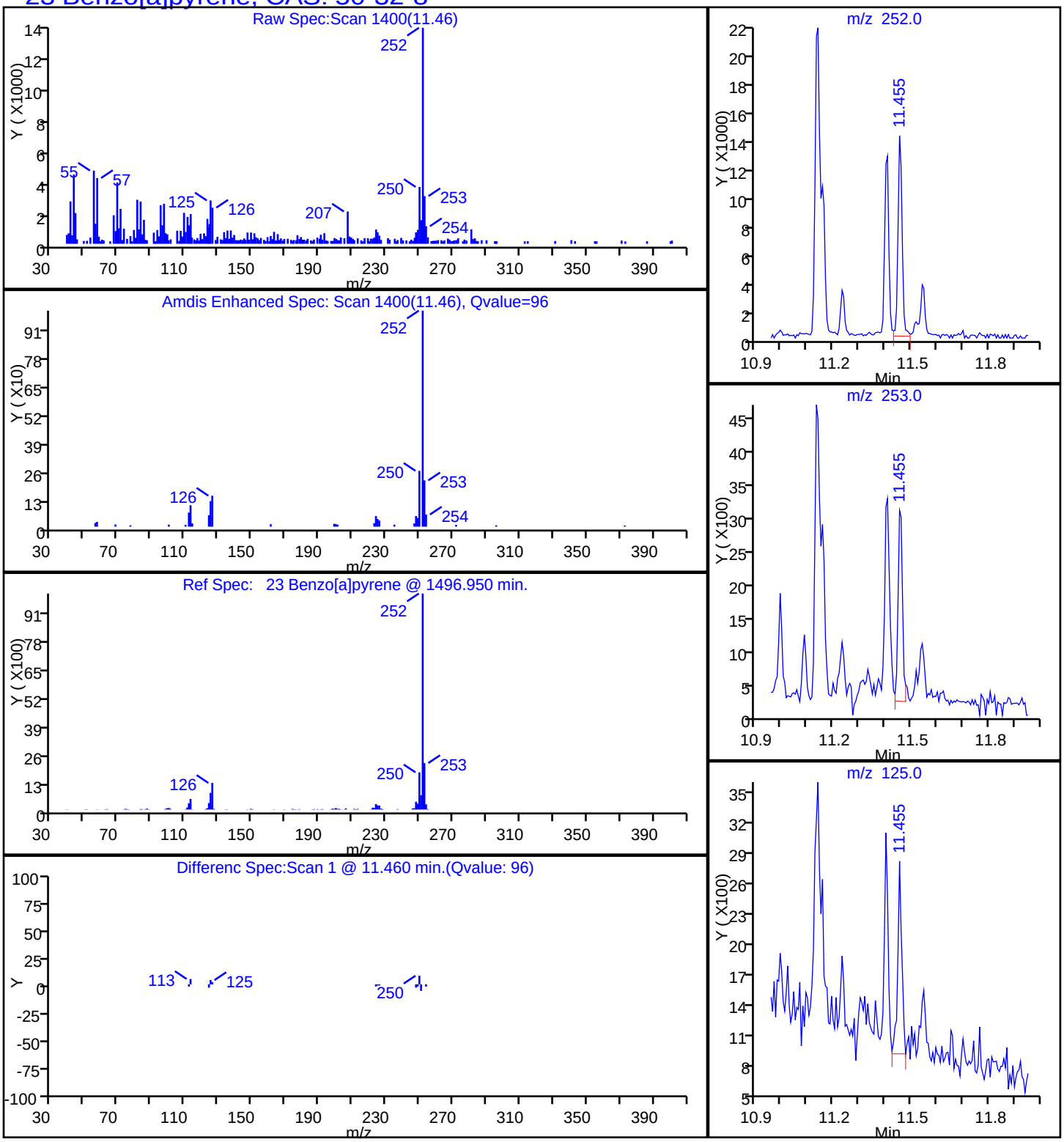


Report Date: 04-Nov-2014 09:15:10 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0328.D				
Injection Date:	03-Nov-2014 20:36:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-20-A	Lab Sample ID:	680-106803-20		
Client ID:	CV0971AD-GS12"				
Operator ID:	RM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

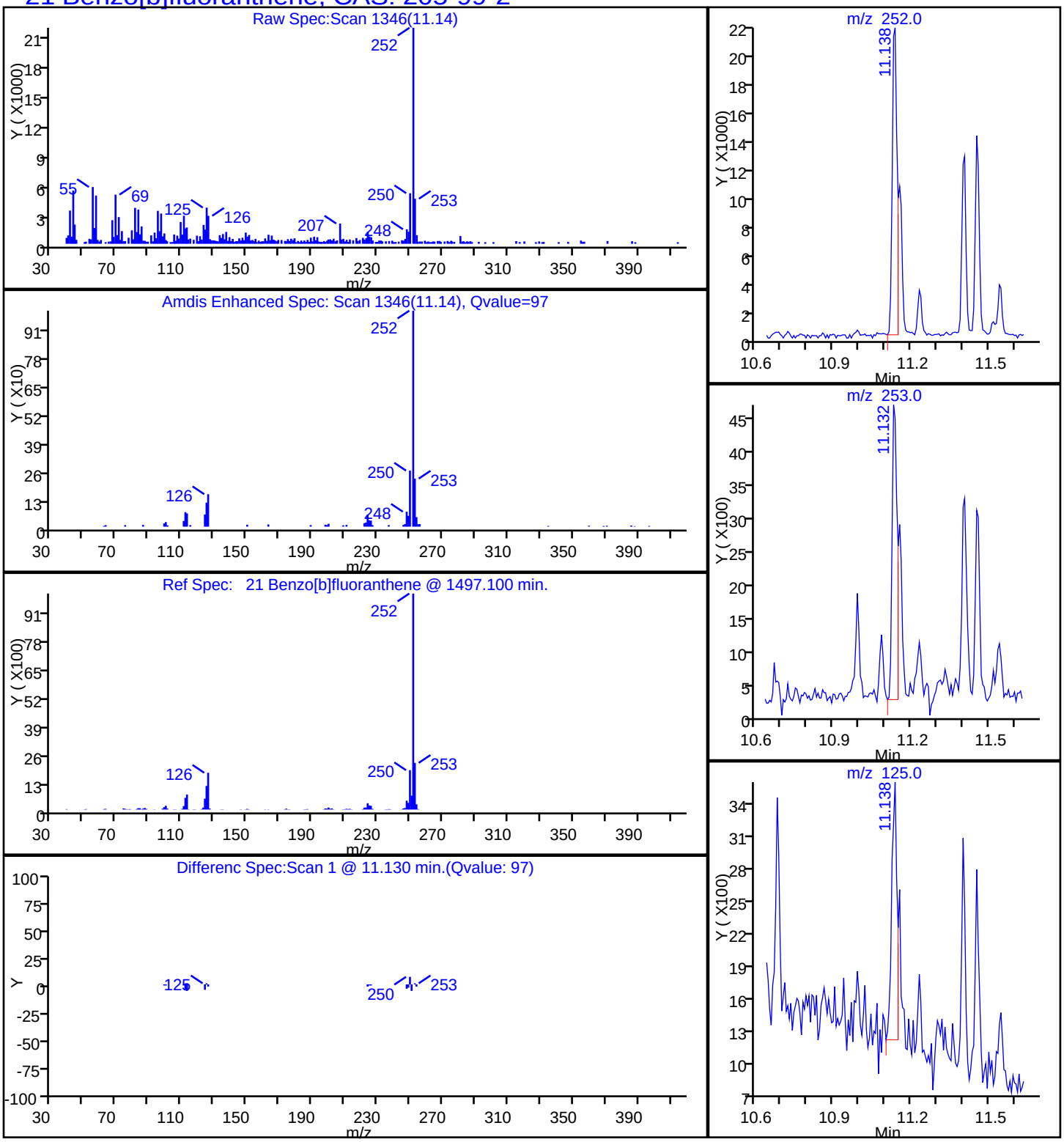


Report Date: 04-Nov-2014 09:15:10 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0328.D				
Injection Date:	03-Nov-2014 20:36:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-20-A	Lab Sample ID:	680-106803-20		
Client ID:	CV0971AD-GS12"				
Operator ID:	RM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

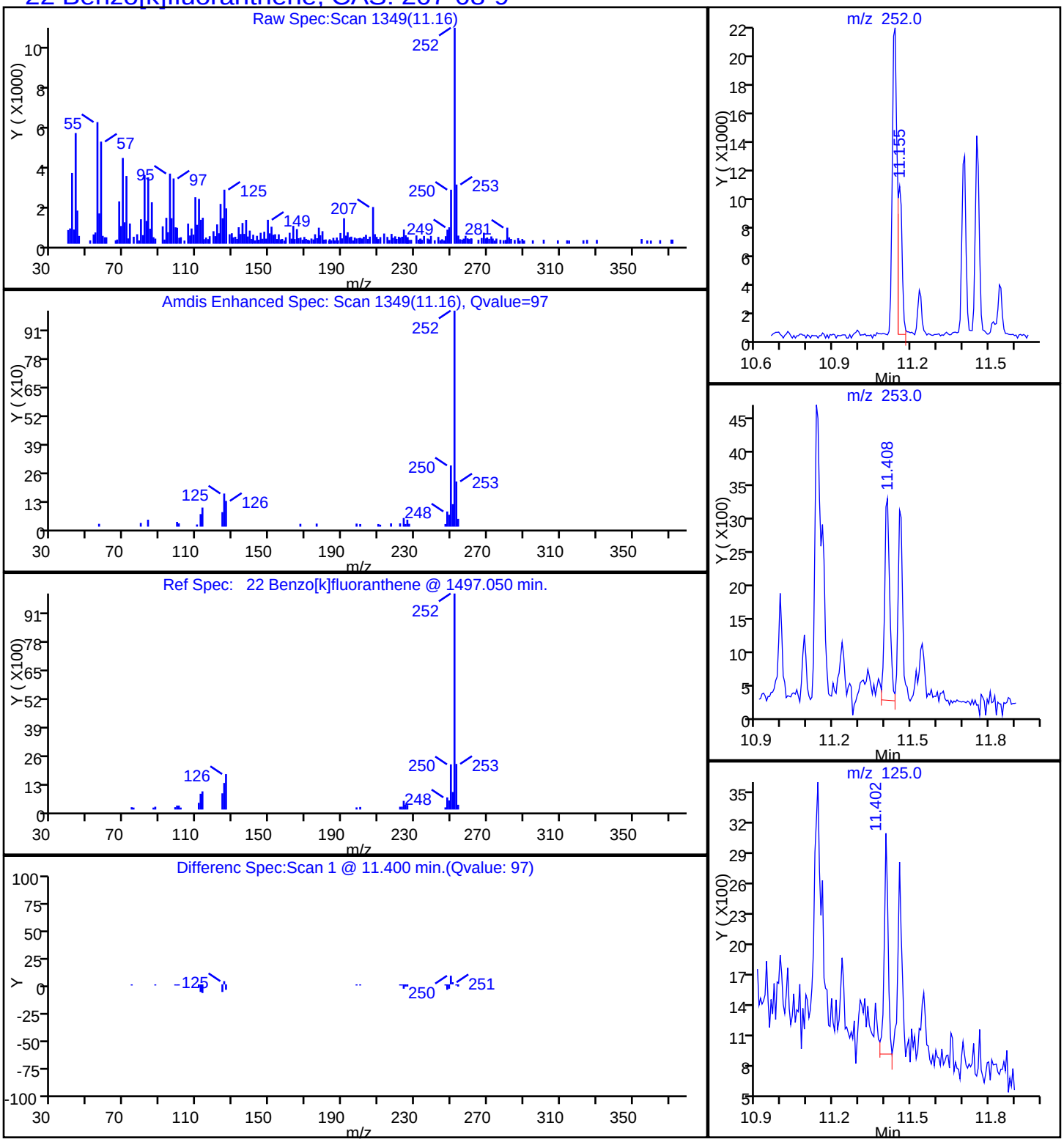


Report Date: 04-Nov-2014 09:15:10 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0328.D				
Injection Date:	03-Nov-2014 20:36:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-20-A	Lab Sample ID:	680-106803-20		
Client ID:	CV0971AD-GS12"				
Operator ID:	RM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

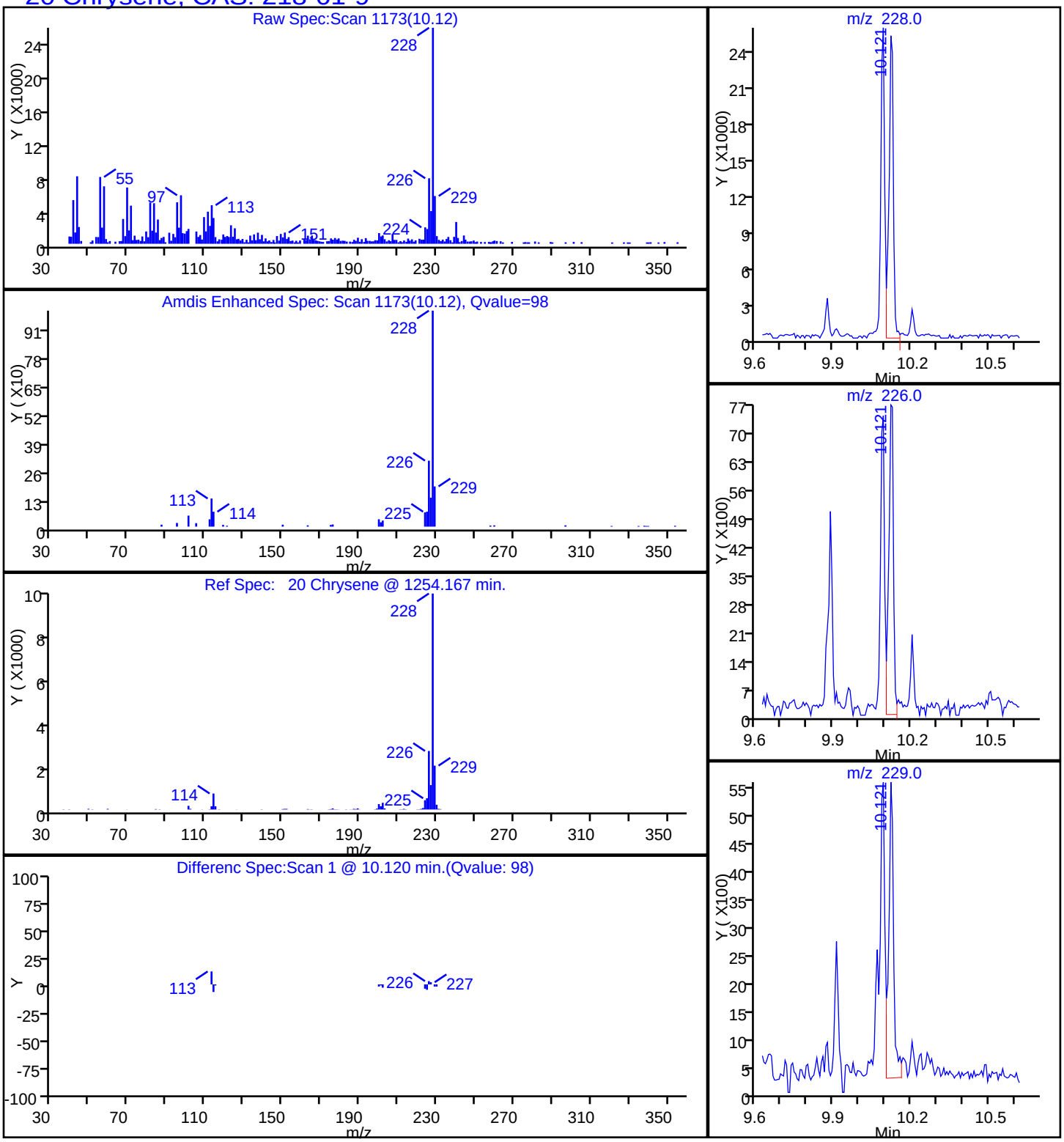


Report Date: 04-Nov-2014 09:15:10 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0328.D				
Injection Date:	03-Nov-2014 20:36:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-20-A	Lab Sample ID:	680-106803-20		
Client ID:	CV0971AD-GS12"				
Operator ID:	RM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

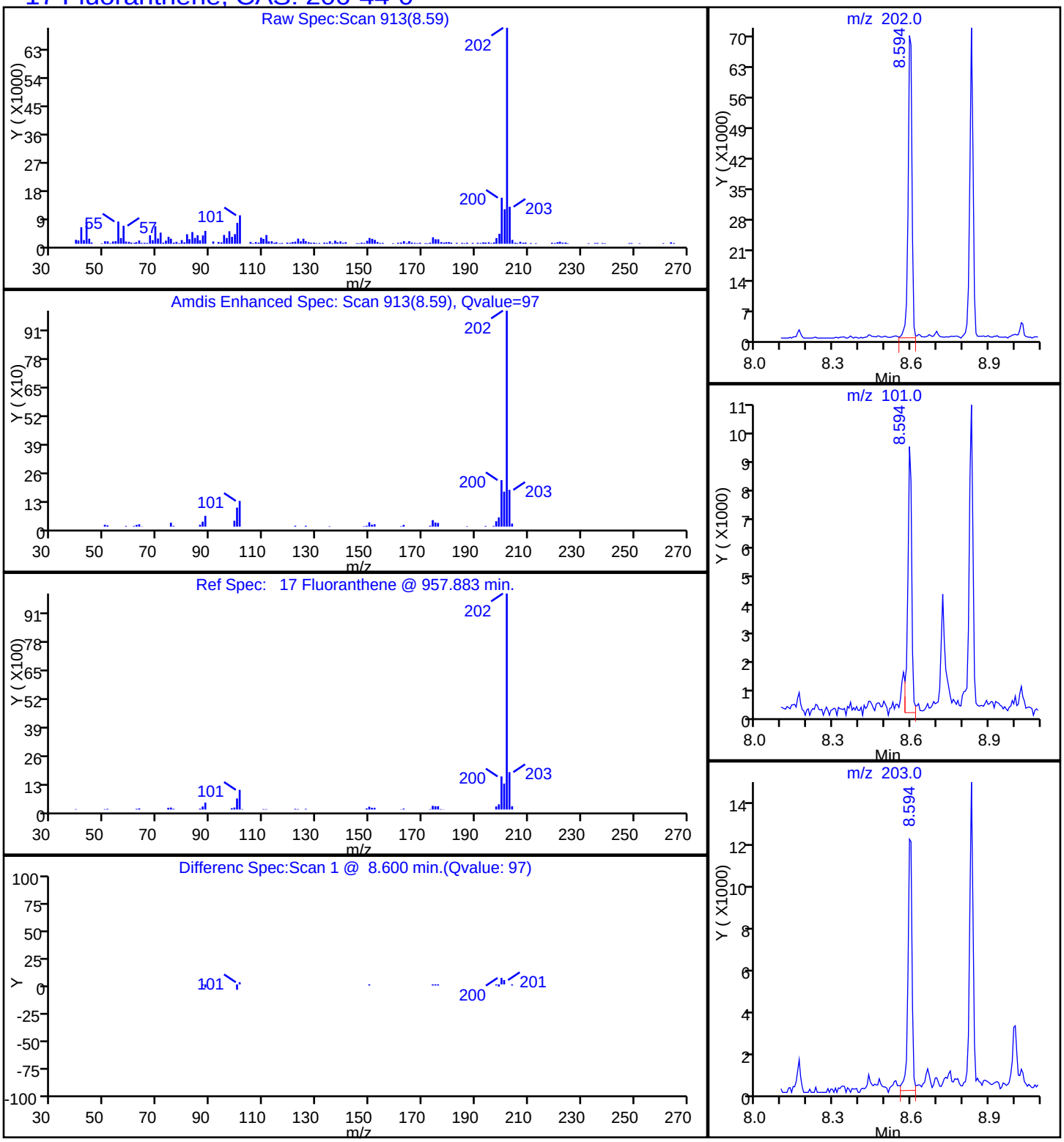


Report Date: 04-Nov-2014 09:15:10 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0328.D				
Injection Date:	03-Nov-2014 20:36:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-20-A	Lab Sample ID:	680-106803-20		
Client ID:	CV0971AD-GS12"				
Operator ID:	RM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

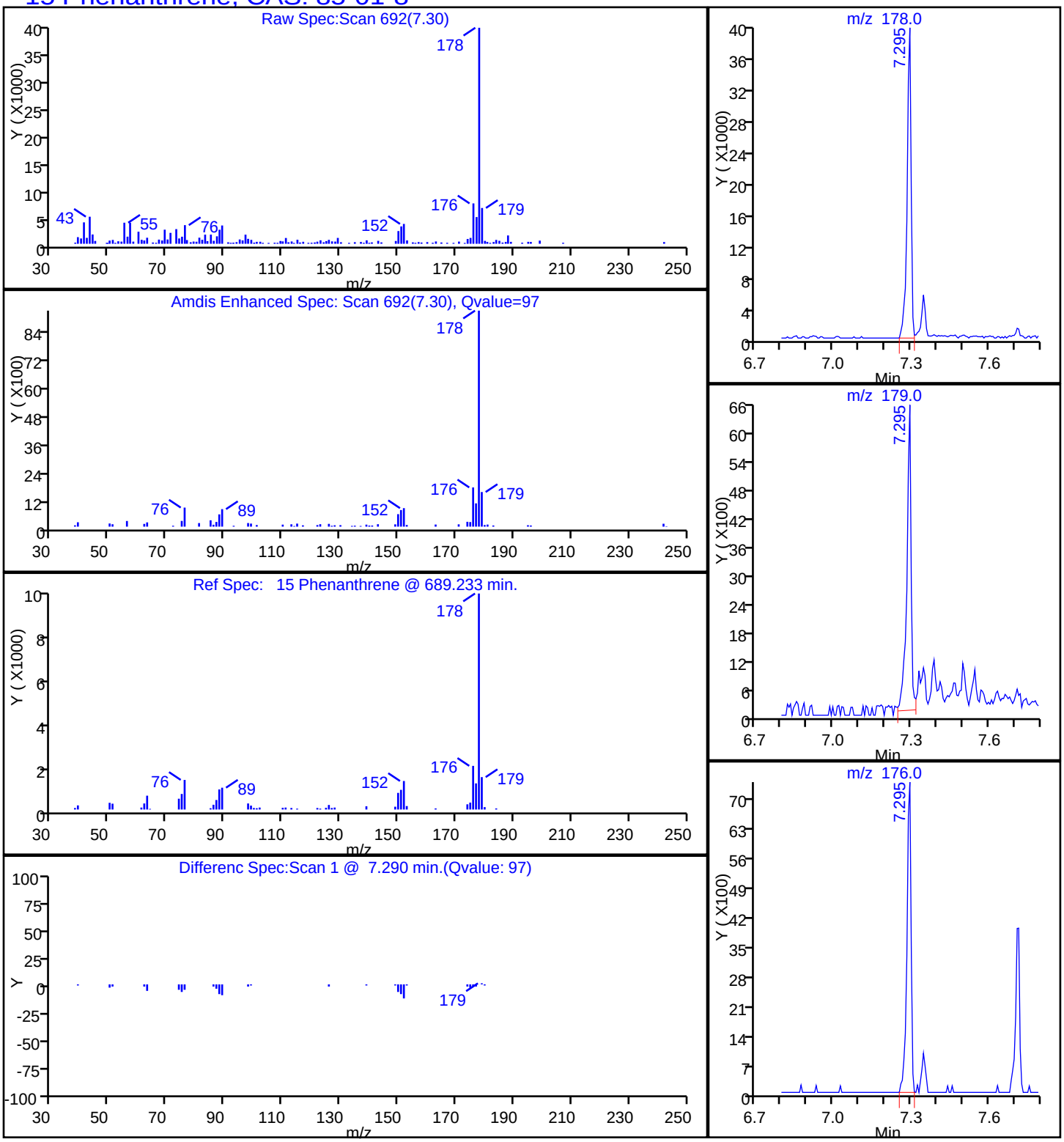


Report Date: 04-Nov-2014 09:15:10 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0328.D				
Injection Date:	03-Nov-2014 20:36:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-20-A	Lab Sample ID:	680-106803-20		
Client ID:	CV0971AD-GS12"				
Operator ID:	RM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

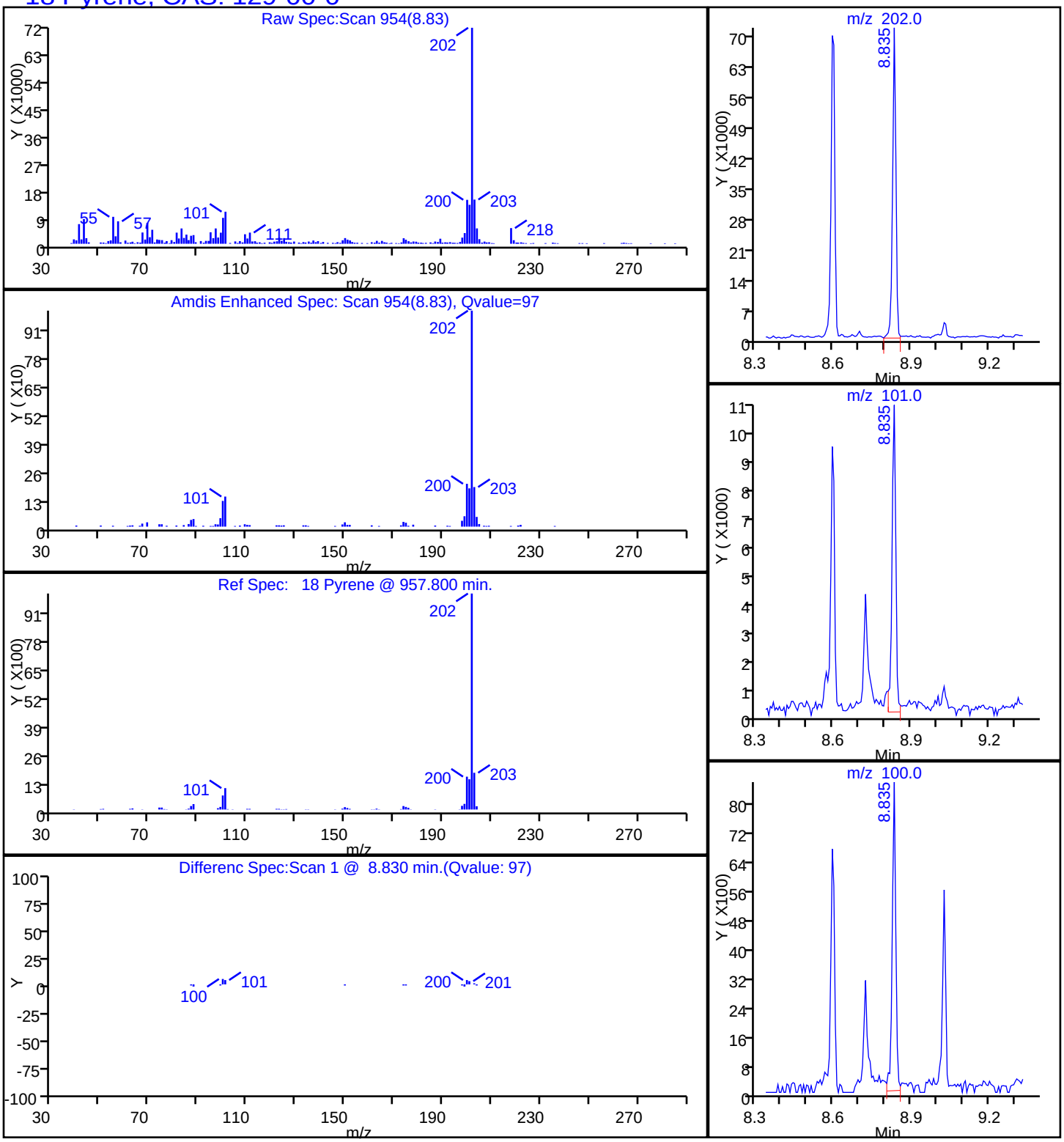


Report Date: 04-Nov-2014 09:15:10 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0328.D				
Injection Date:	03-Nov-2014 20:36:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-20-A	Lab Sample ID:	680-106803-20		
Client ID:	CV0971AD-GS12"				
Operator ID:	RM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

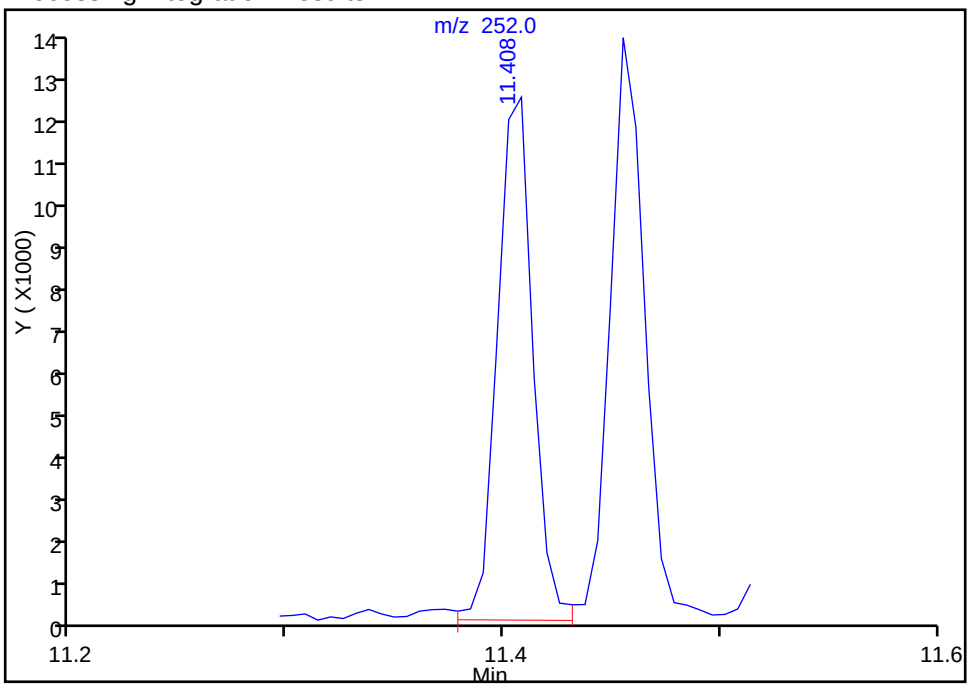
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0328.D				
Injection Date:	03-Nov-2014 20:36:30	Instrument ID:	CMSK		
Lims ID:	680-106803-B-20-A	Lab Sample ID:	680-106803-20		
Client ID:	CV0971AD-GS12"				
Operator ID:	RM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

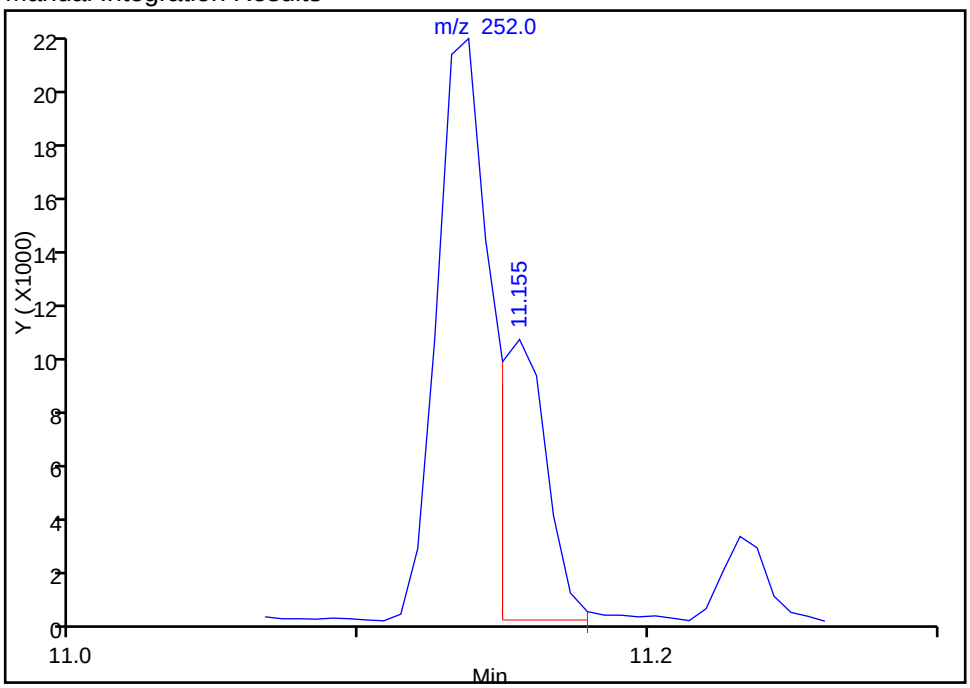
Processing Integration Results

RT: 11.41
Response: 14150
Amount: 0.151571



Manual Integration Results

RT: 11.16
Response: 11834
Amount: 0.126763



Reviewer: webbk, 04-Nov-2014 09:13:22
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.: 680-106803-1 Analy Batch No.: 354813

SDG No.: 680-106803-01

Instrument ID: CMSK GC Column: RXi- 5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2014 13:59 Calibration End Date: 10/22/2014 16:17 Calibration ID: 35275

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-354813/4	1KJ2204.D
Level 2	IC 680-354813/9	1KJ2209.D
Level 3	IC 680-354813/8	1KJ2208.D
Level 4	IC 680-354813/7	1KJ2207.D
Level 5	ICIS 680-354813/3	1KJ2203.D
Level 6	IC 680-354813/6	1KJ2206.D
Level 7	IC 680-354813/5	1KJ2205.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	1.0346 1.1445	1.0886 1.1227	1.1031	1.1004	1.1367	Ave		1.1044			0.7000	3.3		20.0			
2-Methylnaphthalene	0.6190 0.7340	0.6671 0.7157	0.6823	0.6703	0.6961	Ave		0.6835			0.4000	5.5		20.0			
1-Methylnaphthalene	0.5959 0.6924	0.6536 0.6652	0.6407	0.6178	0.6635	Ave		0.6470				5.0		20.0			
Acenaphthylene	1.6796 2.0805	1.8093 1.9579	1.8197	1.8771	1.9590	Ave		1.8833			0.9000	6.9		20.0			
Acenaphthene	1.2157 1.3734	1.3122 1.2820	1.2706	1.2999	1.3136	Ave		1.2953			0.9000	3.7		20.0			
Fluorene	1.0799 1.3798	1.1935 1.2979	1.1873	1.2082	1.2626	Ave		1.2299			0.9000	7.7		20.0			
Phenanthrene	1.1388 1.2945	1.2423 1.2116	1.2329	1.2023	1.2043	Ave		1.2181			0.7000	3.9		20.0			
Anthracene	1.0566 1.2626	1.0969 1.1839	1.1219	1.1290	1.1683	Ave		1.1456			0.7000	5.8		20.0			
Fluoranthene	1.0858 1.3764	1.2088 1.1795	1.1706	1.2063	1.3075	Ave		1.2193			0.6000	7.8		20.0			
Pyrene	1.7776 1.8735	1.9100 1.6766	1.8696	1.8827	1.5749	Ave		1.7950			0.6000	7.0		20.0			
Benzo[a]anthracene	1.1959 1.2393	1.2274 1.1648	1.1843	1.1636	1.1841	Ave		1.1942			0.7000	2.5		20.0			
Chrysene	1.0689 1.1414	1.2426 1.0814	1.1490	1.1267	1.0811	Ave		1.1273			0.7000	5.3		20.0			
Benzo[b]fluoranthene	1.2001 1.3895	1.2848 1.3408	1.3082	1.2582	1.2716	Ave		1.2933			0.4000	4.7		20.0			
Benzo[k]fluoranthene	1.1846 1.4925	1.3582 1.4137	1.2676	1.2745	1.3801	Ave		1.3387			0.4000	7.7		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.: 680-106803-1 Analy Batch No.: 354813

SDG No.: 680-106803-01

Instrument ID: CMSK GC Column: RXi- 5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2014 13:59 Calibration End Date: 10/22/2014 16:17 Calibration ID: 35275

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[a]pyrene	1.0168 1.2368	1.1293 1.2178	1.1112	1.0852	1.1059	Ave		1.1290			0.4000	6.8		20.0			
Indeno[1,2,3-cd]pyrene	1.3126 0.9757	1.1580 1.0534	1.0514	1.1146	0.9656	Ave		1.0902			0.2000	11.0		20.0			
Dibenz(a,h)anthracene	1.2268 1.0387	0.9620 1.0991	1.0257	1.0394	0.9432	Ave		1.0478			0.2000	9.0		20.0			
Benzo[g,h,i]perylene	1.4059 1.0869	1.1457 1.0927	1.1127	1.1682	1.0082	Ave		1.1458			0.2000	11.0		20.0			
o-Terphenyl	1.3298 1.1796	1.3569 1.1403	1.3901	1.2829	0.9924	Ave		1.2388				11.0		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.: 680-106803-1 Analy Batch No.: 354813

SDG No.: 680-106803-01

Instrument ID: CMSK GC Column: RXi- 5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2014 13:59 Calibration End Date: 10/22/2014 16:17 Calibration ID: 35275

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-354813/4	1KJ2204.D
Level 2	IC 680-354813/9	1KJ2209.D
Level 3	IC 680-354813/8	1KJ2208.D
Level 4	IC 680-354813/7	1KJ2207.D
Level 5	ICIS 680-354813/3	1KJ2203.D
Level 6	IC 680-354813/6	1KJ2206.D
Level 7	IC 680-354813/5	1KJ2205.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	16194 2286372	36787 4597761	112781	220596	978758	0.100 10.0	0.200 20.0	0.500	1.00	5.00
2-Methylnaphthalene	NPT	Ave	9689 1466267	22543 2930768	69763	134376	599385	0.100 10.0	0.200 20.0	0.500	1.00	5.00
1-Methylnaphthalene	NPT	Ave	9327 1383218	22085 2723863	65510	123840	571283	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Acenaphthylene	ANT	Ave	12718 2232433	30309 4367729	96826	188901	857335	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Acenaphthene	ANT	Ave	9205 1473719	21982 2860004	67608	130815	574887	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Fluorene	ANT	Ave	8177 1480513	19993 2895419	63176	121593	552536	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Phenanthrene	PHN	Ave	10623 2057354	27846 3966916	85497	167288	746470	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Anthracene	PHN	Ave	9856 2006696	24587 3876287	77797	157091	724121	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Fluoranthene	PHN	Ave	10128 2187555	27097 3861875	81173	167848	810393	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Pyrene	CRY	Ave	10650 2270104	28338 3983096	85999	174739	868019	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[a]anthracene	CRY	Ave	7165 1501675	18211 2767194	54477	107994	652628	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Chrysene	CRY	Ave	6404 1383048	18436 2569037	52854	104570	595855	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[b]fluoranthene	PRY	Ave	6480 1290845	17256 2561100	51925	100290	581924	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[k]fluoranthene	PRY	Ave	6396 1386478	18242 2700252	50311	101595	631593	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[a]pyrene	PRY	Ave	5490 1148955	15167 2326099	44106	86505	506094	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.: 680-106803-1 Analy Batch No.: 354813

SDG No.: 680-106803-01

Instrument ID: CMSK GC Column: RXi- 5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2014 13:59 Calibration End Date: 10/22/2014 16:17 Calibration ID: 35275

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
Indeno[1,2,3-cd]pyrene	CRY	Ave	7864 1182204	17181 2502652	48365	103447	532189	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Dibenz(a,h)anthracene	PRY	Ave	6624 964885	12920 2099277	40712	82849	431626	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[g,h,i]perylene	PRY	Ave	7591 1009709	15388 2087131	44165	93121	461396	0.100 10.0	0.200 20.0	0.500	1.00	5.00
o-Terphenyl	CRY	Ave	7967 1429282	20132 2709032	63944	119069	546952	0.100 10.0	0.200 20.0	0.500	1.00	5.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2203.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 22-Oct-2014 13:59:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS
Misc. Info.: 680-0013989-003
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 23-Oct-2014 10:11:19 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

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

First Level Reviewer: webbk Date: 22-Oct-2014 14:33:35

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	4.272	4.272	0.000	98	344419	2.00	2.00	
* 2 Acenaphthene-d10	164	6.070	6.070	0.000	78	175053	2.00	2.00	
* 3 Phenanthrene-d10	188	7.692	7.692	0.000	98	247926	2.00	2.00	
* 4 Chrysene-d12	240	10.518	10.518	0.000	99	220458	2.00	2.00	
* 5 Perylene-d12	264	12.057	12.057	0.000	99	183053	2.00	2.00	
$ 6 o-Terphenyl	230	8.132	8.132	0.000	88	546952	5.00	4.01	
7 Naphthalene	128	4.290	4.290	0.000	99	978758	5.00	5.15	
9 2-Methylnaphthalene	142	4.977	4.977	0.000	80	599385	5.00	5.09	
8 1-Methylnaphthalene	142	5.077	5.077	0.000	80	571283	5.00	5.13	
11 Acenaphthylene	152	5.917	5.917	0.000	96	857335	5.00	5.20	
12 Acenaphthene	153	6.105	6.105	0.000	94	574887	5.00	5.07	
14 Fluorene	166	6.663	6.663	0.000	84	552536	5.00	5.13	
15 Phenanthrene	178	7.715	7.715	0.000	97	746470	5.00	4.94	
16 Anthracene	178	7.774	7.774	0.000	87	724121	5.00	5.10	
17 Fluoranthene	202	9.020	9.020	0.000	97	810393	5.00	5.36	
18 Pyrene	202	9.260	9.260	0.000	96	868019	5.00	4.39	
19 Benzo[a]anthracene	228	10.506	10.506	0.000	89	652628	5.00	4.96	
20 Chrysene	228	10.541	10.541	0.000	95	595855	5.00	4.80	
21 Benzo[b]fluoranthene	252	11.611	11.611	0.000	87	581924	5.00	4.92	
22 Benzo[k]fluoranthene	252	11.640	11.640	0.000	85	631593	5.00	5.15	
23 Benzo[a]pyrene	252	11.987	11.987	0.000	86	506094	5.00	4.90	
24 Indeno[1,2,3-cd]pyrene	276	13.573	13.573	0.000	84	532189	5.00	4.43	
25 Dibenz(a,h)anthracene	278	13.602	13.602	0.000	86	431626	5.00	4.50	
26 Benzo[g,h,i]perylene	276	14.031	14.031	0.000	90	461396	5.00	4.40	

Reagents:

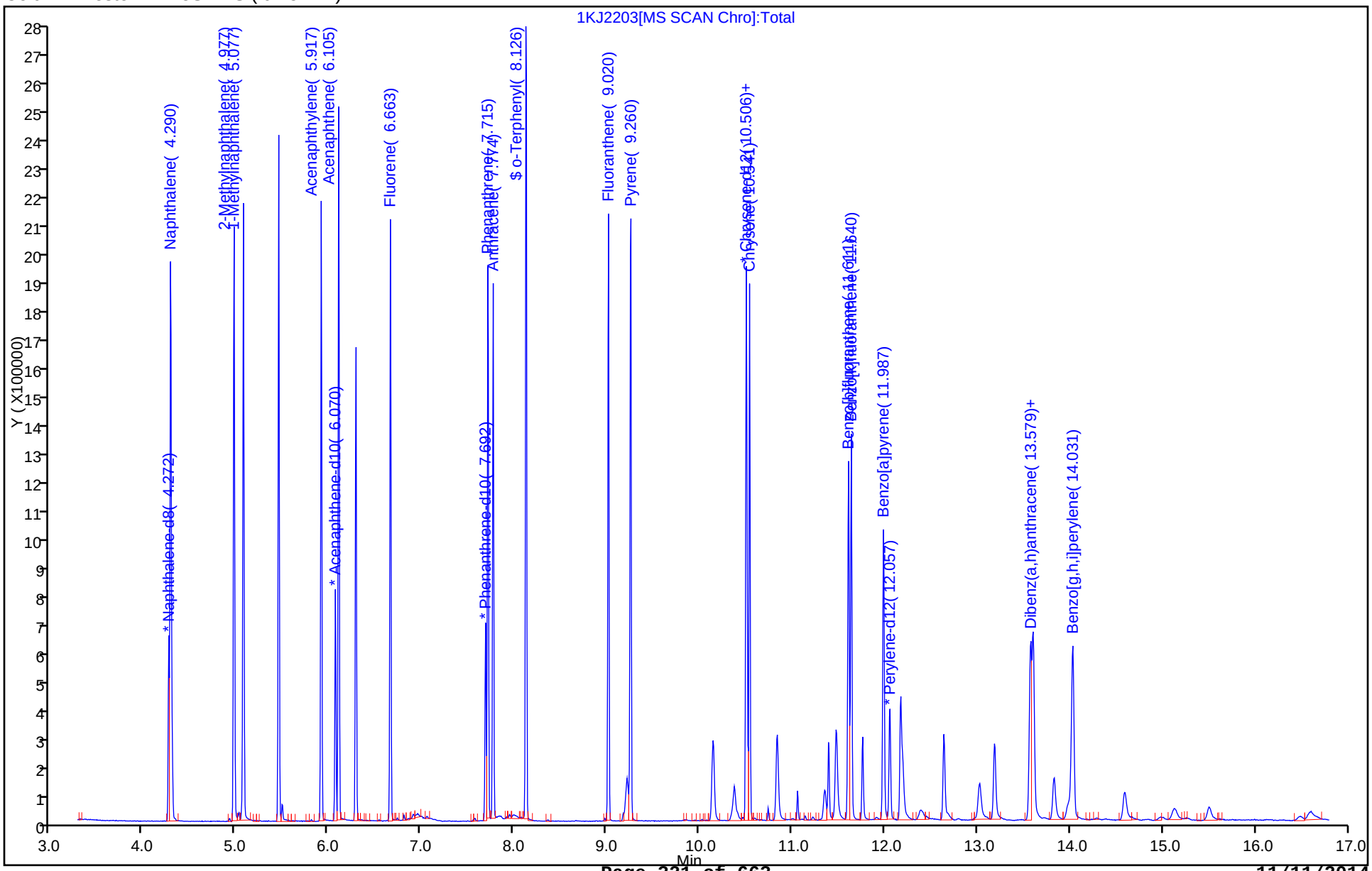
SMLLPAH5.0LVI_00023 Amount Added: 1.00 Units: mL

Report Date: 23-Oct-2014 10:11:20 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2203.D				
Injection Date:	22-Oct-2014 13:59:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	ICIS			Worklist Smp#:	3
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\20141022-13989.b\1KJ2204.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 22-Oct-2014 14:22:30 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0013989-004
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 23-Oct-2014 10:11:20 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

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

First Level Reviewer: webbk Date: 22-Oct-2014 14:45:06

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	4.272	4.272	0.000	99	313051	2.00	2.00	
* 2 Acenaphthene-d10	164	6.070	6.070	0.000	92	151440	2.00	2.00	
* 3 Phenanthrene-d10	188	7.692	7.692	0.000	99	186562	2.00	2.00	
* 4 Chrysene-d12	240	10.512	10.518	-0.006	99	119827	2.00	2.00	
* 5 Perylene-d12	264	12.051	12.057	-0.006	99	107987	2.00	2.00	
$ 6 o-Terphenyl	230	8.126	8.132	-0.006	83	7967	0.1000	0.1073	
7 Naphthalene	128	4.290	4.290	0.000	98	16194	0.1000	0.0937	
9 2-Methylnaphthalene	142	4.977	4.977	0.000	85	9689	0.1000	0.0906	
8 1-Methylnaphthalene	142	5.077	5.077	0.000	79	9327	0.1000	0.0921	
11 Acenaphthylene	152	5.917	5.917	0.000	97	12718	0.1000	0.0892	
12 Acenaphthene	153	6.105	6.105	0.000	93	9205	0.1000	0.0938	
14 Fluorene	166	6.663	6.663	0.000	96	8177	0.1000	0.0878	
15 Phenanthrene	178	7.715	7.715	0.000	97	10623	0.1000	0.0935	
16 Anthracene	178	7.768	7.774	-0.006	98	9856	0.1000	0.0922	
17 Fluoranthene	202	9.014	9.020	-0.006	98	10128	0.1000	0.0890	
18 Pyrene	202	9.255	9.260	-0.006	92	10650	0.1000	0.0990	
19 Benzo[a]anthracene	228	10.500	10.506	-0.006	97	7165	0.1000	0.1001	
20 Chrysene	228	10.535	10.541	-0.006	98	6404	0.1000	0.0948	
21 Benzo[b]fluoranthene	252	11.599	11.611	-0.012	98	6480	0.1000	0.0928	
22 Benzo[k]fluoranthene	252	11.628	11.640	-0.012	98	6396	0.1000	0.0885	
23 Benzo[a]pyrene	252	11.975	11.987	-0.012	96	5490	0.1000	0.0901	
24 Indeno[1,2,3-cd]pyrene	276	13.561	13.573	-0.012	86	7864	0.1000	0.1204	
25 Dibenz(a,h)anthracene	278	13.597	13.602	-0.005	25	6624	0.1000	0.1171	
26 Benzo[g,h,i]perylene	276	14.014	14.031	-0.017	66	7591	0.1000	0.1227	

Reagents:

SMLLPAH0.1LVI_00020 Amount Added: 1.00 Units: mL

Report Date: 23-Oct-2014 10:11:20 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2204.D

Injection Date: 22-Oct-2014 14:22:30 Instrument ID: CMSK Operator ID: RM

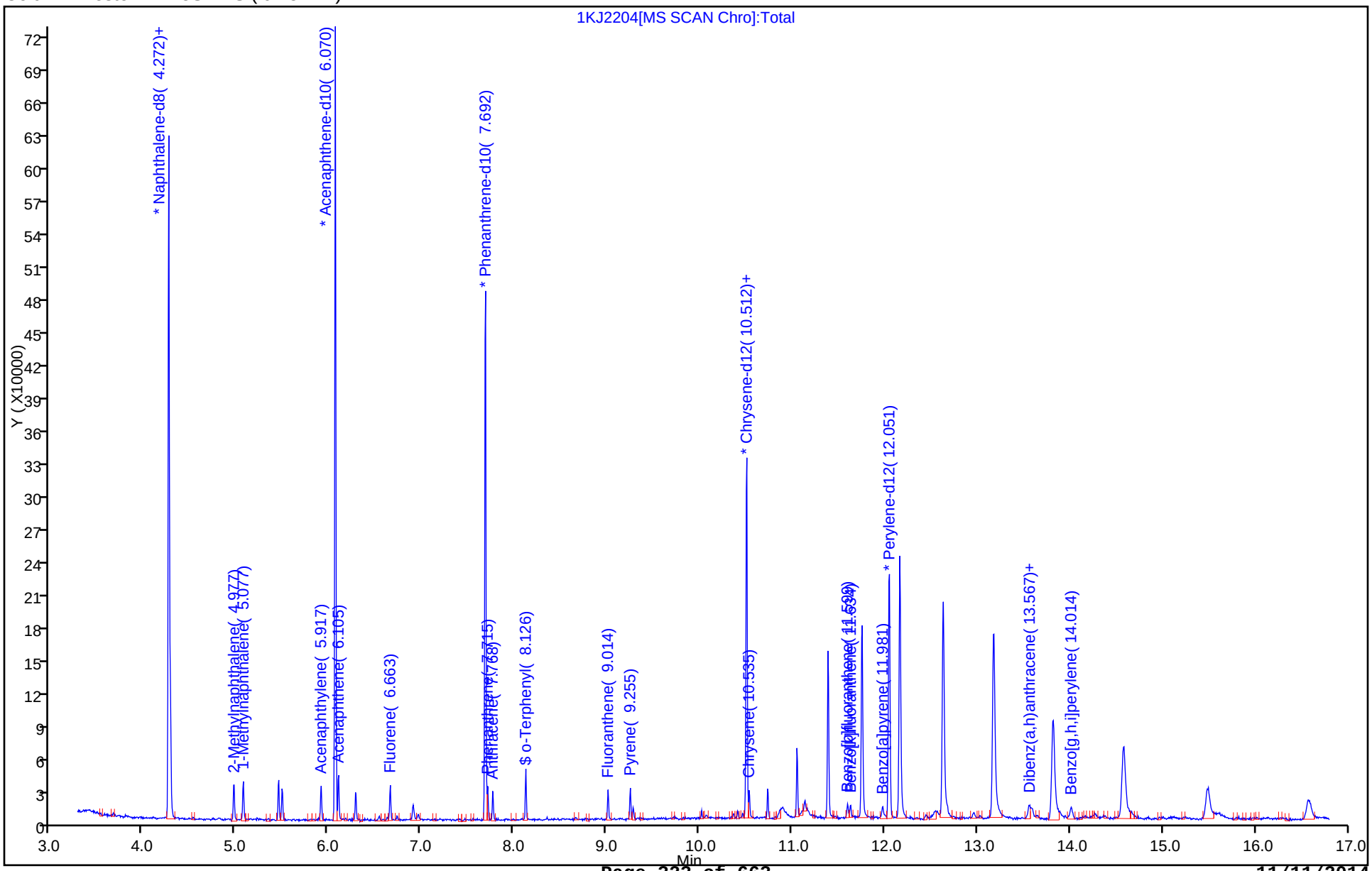
Lims ID: IC Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 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\20141022-13989.b\1KJ2205.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 22-Oct-2014 14:45:30 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0013989-005
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 23-Oct-2014 10:11:21 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

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

First Level Reviewer: webbk Date: 22-Oct-2014 15:53:30

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	4.272	4.272	0.000	98	409510	2.00	2.00	
* 2 Acenaphthene-d10	164	6.070	6.070	0.000	92	223084	2.00	2.00	
* 3 Phenanthrene-d10	188	7.692	7.692	0.000	99	327410	2.00	2.00	
* 4 Chrysene-d12	240	10.518	10.518	0.000	99	237574	2.00	2.00	
* 5 Perylene-d12	264	12.057	12.057	0.000	99	191008	2.00	2.00	
$ 6 o-Terphenyl	230	8.132	8.132	0.000	90	2709032	20.0	18.4	
7 Naphthalene	128	4.296	4.290	0.006	99	4597761	20.0	20.3	
9 2-Methylnaphthalene	142	4.977	4.977	0.000	85	2930768	20.0	20.9	
8 1-Methylnaphthalene	142	5.083	5.077	0.006	93	2723863	20.0	20.6	
11 Acenaphthylene	152	5.923	5.917	0.006	97	4367729	20.0	20.8	
12 Acenaphthene	153	6.111	6.105	0.006	95	2860004	20.0	19.8	
14 Fluorene	166	6.669	6.663	0.006	96	2895419	20.0	21.1	
15 Phenanthrene	178	7.721	7.715	0.006	98	3966916	20.0	19.9	
16 Anthracene	178	7.780	7.774	0.006	98	3876287	20.0	20.7	
17 Fluoranthene	202	9.025	9.020	0.005	98	3861875	20.0	19.3	
18 Pyrene	202	9.266	9.260	0.006	97	3983096	20.0	18.7	
19 Benzo[a]anthracene	228	10.506	10.506	0.000	98	2767194	20.0	19.5	
20 Chrysene	228	10.547	10.541	0.006	98	2569037	20.0	19.2	
21 Benzo[b]fluoranthene	252	11.617	11.611	0.006	98	2561100	20.0	20.7	
22 Benzo[k]fluoranthene	252	11.646	11.640	0.006	98	2700252	20.0	21.1	
23 Benzo[a]pyrene	252	11.993	11.987	0.006	97	2326099	20.0	21.6	
24 Indeno[1,2,3-cd]pyrene	276	13.585	13.573	0.012	98	2502652	20.0	19.3	
25 Dibenz(a,h)anthracene	278	13.614	13.602	0.012	97	2099277	20.0	21.0	
26 Benzo[g,h,i]perylene	276	14.049	14.031	0.018	98	2087131	20.0	19.1	

Reagents:

SMLLPAH20LVI_00023 Amount Added: 1.00 Units: mL

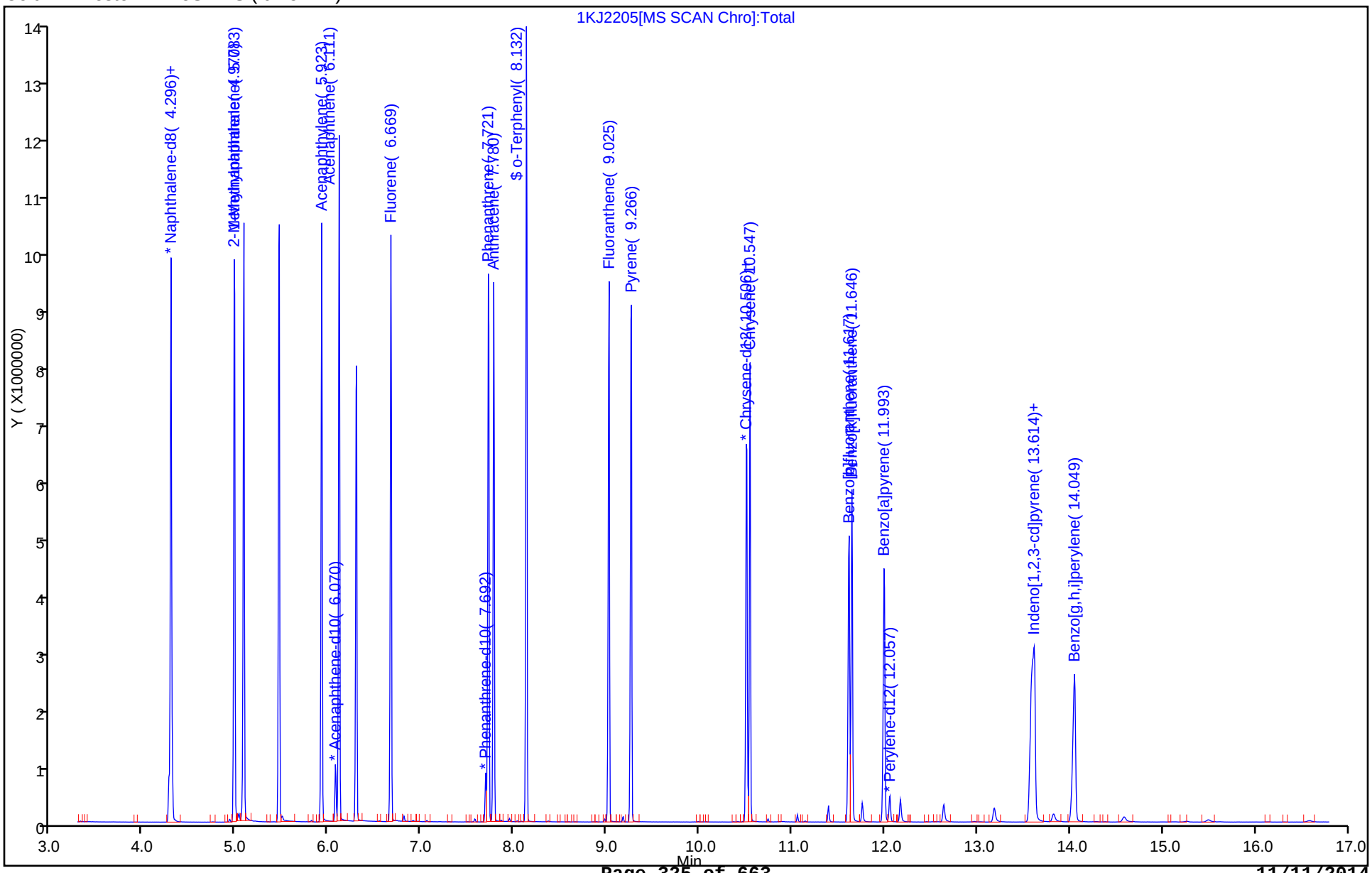
Report Date: 23-Oct-2014 10:11:21 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2205.D

Injection Date:	22-Oct-2014 14:45:30	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#:	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\20141022-13989.b\1KJ2206.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 22-Oct-2014 15:08:30 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0013989-006
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 23-Oct-2014 10:11:22 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

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

First Level Reviewer: webbk Date: 22-Oct-2014 15:53:44

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	4.272	4.272	0.000	98	399529	2.00	2.00	
* 2 Acenaphthene-d10	164	6.070	6.070	0.000	92	214603	2.00	2.00	
* 3 Phenanthrene-d10	188	7.692	7.692	0.000	98	317866	2.00	2.00	
* 4 Chrysene-d12	240	10.512	10.518	-0.006	99	242339	2.00	2.00	
* 5 Perylene-d12	264	12.046	12.057	-0.011	98	185794	2.00	2.00	
$ 6 o-Terphenyl	230	8.132	8.132	0.000	90	1429282	10.0	9.52	
7 Naphthalene	128	4.296	4.290	0.006	99	2286372	10.0	10.4	
9 2-Methylnaphthalene	142	4.977	4.977	0.000	85	1466267	10.0	10.7	
8 1-Methylnaphthalene	142	5.077	5.077	0.000	93	1383218	10.0	10.7	
11 Acenaphthylene	152	5.917	5.917	0.000	97	2232433	10.0	11.0	
12 Acenaphthene	153	6.105	6.105	0.000	95	1473719	10.0	10.6	
14 Fluorene	166	6.669	6.663	0.006	95	1480513	10.0	11.2	
15 Phenanthrene	178	7.721	7.715	0.006	97	2057354	10.0	10.6	
16 Anthracene	178	7.774	7.774	0.000	98	2006696	10.0	11.0	
17 Fluoranthene	202	9.020	9.020	0.000	98	2187555	10.0	11.3	
18 Pyrene	202	9.261	9.260	0.001	97	2270104	10.0	10.4	
19 Benzo[a]anthracene	228	10.506	10.506	0.000	97	1501675	10.0	10.4	
20 Chrysene	228	10.541	10.541	0.000	98	1383048	10.0	10.1	
21 Benzo[b]fluoranthene	252	11.605	11.611	-0.006	98	1290845	10.0	10.7	
22 Benzo[k]fluoranthene	252	11.634	11.640	-0.006	98	1386478	10.0	11.1	
23 Benzo[a]pyrene	252	11.981	11.987	-0.006	97	1148955	10.0	11.0	
24 Indeno[1,2,3-cd]pyrene	276	13.567	13.573	-0.006	98	1182204	10.0	8.95	
25 Dibenz(a,h)anthracene	278	13.597	13.602	-0.005	95	964885	10.0	9.91	
26 Benzo[g,h,i]perylene	276	14.026	14.031	-0.005	98	1009709	10.0	9.49	

Reagents:

SMLLPAH10LVI_00020 Amount Added: 1.00 Units: mL

Report Date: 23-Oct-2014 10:11:22 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2206.D

Injection Date: 22-Oct-2014 15:08:30 Instrument ID: CMSK Operator ID: RM

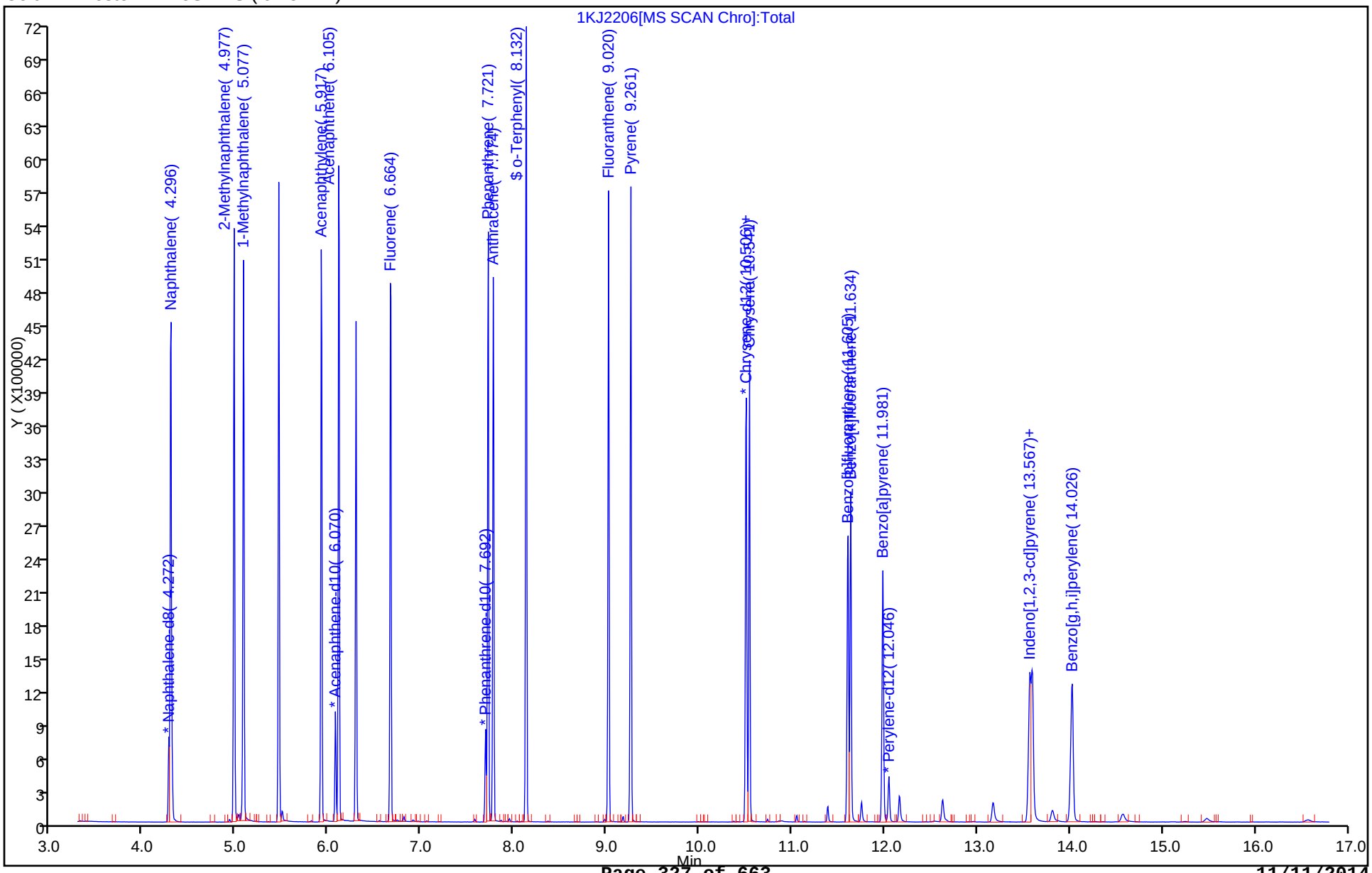
Lims ID: IC Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 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\20141022-13989.b\1KJ2207.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 22-Oct-2014 15:31:30 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0013989-007
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 23-Oct-2014 10:11:23 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

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

First Level Reviewer: webbk Date: 22-Oct-2014 15:54:02

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	4.272	4.272	0.000	99	400928	2.00	2.00	
* 2 Acenaphthene-d10	164	6.070	6.070	0.000	92	201272	2.00	2.00	
* 3 Phenanthrene-d10	188	7.692	7.692	0.000	98	278286	2.00	2.00	
* 4 Chrysene-d12	240	10.512	10.518	-0.006	99	185623	2.00	2.00	
* 5 Perylene-d12	264	12.045	12.057	-0.012	99	159421	2.00	2.00	
$ 6 o-Terphenyl	230	8.126	8.132	-0.006	90	119069	1.00	1.04	
7 Naphthalene	128	4.290	4.290	0.000	99	220596	1.00	1.00	
9 2-Methylnaphthalene	142	4.971	4.977	-0.006	86	134376	1.00	0.9807	
8 1-Methylnaphthalene	142	5.077	5.077	0.000	93	123840	1.00	0.9548	
11 Acenaphthylene	152	5.917	5.917	0.000	97	188901	1.00	1.00	
12 Acenaphthene	153	6.105	6.105	0.000	95	130815	1.00	1.00	
14 Fluorene	166	6.663	6.663	0.000	95	121593	1.00	0.9824	
15 Phenanthrene	178	7.715	7.715	0.000	97	167288	1.00	0.9870	
16 Anthracene	178	7.768	7.774	-0.006	99	157091	1.00	0.9855	
17 Fluoranthene	202	9.014	9.020	-0.006	98	167848	1.00	0.9894	
18 Pyrene	202	9.255	9.260	-0.006	97	174739	1.00	1.05	
19 Benzo[a]anthracene	228	10.500	10.506	-0.006	97	107994	1.00	0.9744	
20 Chrysene	228	10.535	10.541	-0.006	98	104570	1.00	1.00	
21 Benzo[b]fluoranthene	252	11.599	11.611	-0.012	98	100290	1.00	0.9728	
22 Benzo[k]fluoranthene	252	11.628	11.640	-0.012	98	101595	1.00	0.9520	
23 Benzo[a]pyrene	252	11.975	11.987	-0.012	97	86505	1.00	0.9612	
24 Indeno[1,2,3-cd]pyrene	276	13.561	13.573	-0.012	98	103447	1.00	1.02	
25 Dibenz(a,h)anthracene	278	13.591	13.602	-0.011	94	82849	1.00	0.99	
26 Benzo[g,h,i]perylene	276	14.014	14.031	-0.017	98	93121	1.00	1.02	

Reagents:

SMLLPAH1.0LVI_00018 Amount Added: 1.00 Units: mL

Report Date: 23-Oct-2014 10:11:23 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2207.D

Injection Date: 22-Oct-2014 15:31:30 Instrument ID: CMSK Operator ID: RM

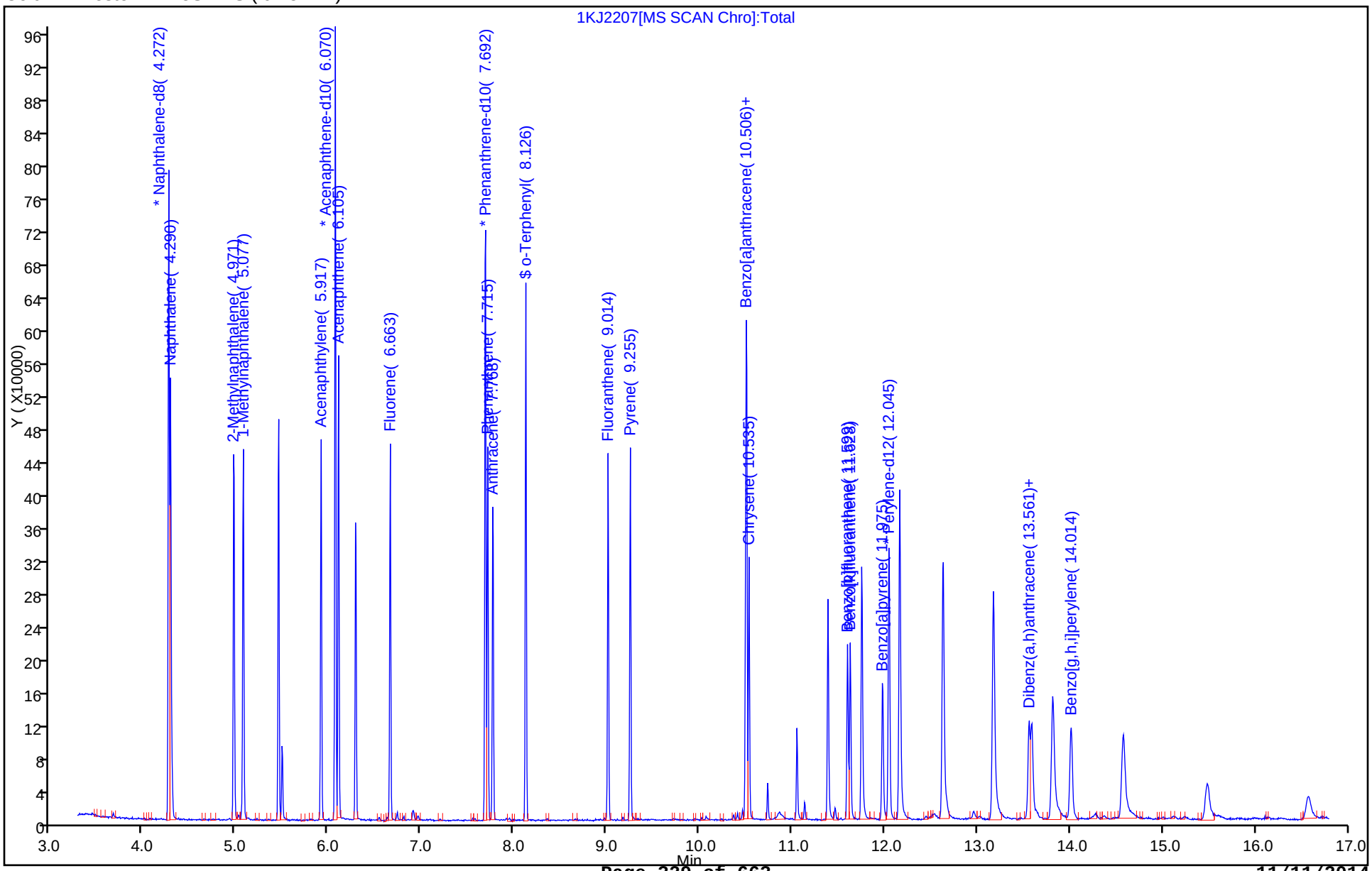
Lims ID: IC Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 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\20141022-13989.b\1KJ2208.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 22-Oct-2014 15:54:30 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0013989-008
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 23-Oct-2014 10:11:25 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

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

First Level Reviewer: moorer Date: 23-Oct-2014 10:09:21

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	4.272	4.272	0.000	99	408965	2.00	2.00	
* 2 Acenaphthene-d10	164	6.070	6.070	0.000	92	212839	2.00	2.00	
* 3 Phenanthrene-d10	188	7.692	7.692	0.000	98	277376	2.00	2.00	
* 4 Chrysene-d12	240	10.512	10.518	-0.006	100	183998	2.00	2.00	
* 5 Perylene-d12	264	12.045	12.057	-0.012	99	158764	2.00	2.00	
$ 6 o-Terphenyl	230	8.126	8.132	-0.006	90	63944	0.5000	0.5610	
7 Naphthalene	128	4.290	4.290	0.000	99	112781	0.5000	0.4994	
9 2-Methylnaphthalene	142	4.971	4.977	-0.006	85	69763	0.5000	0.4991	
8 1-Methylnaphthalene	142	5.077	5.077	0.000	92	65510	0.5000	0.4952	
11 Acenaphthylene	152	5.917	5.917	0.000	98	96826	0.5000	0.4831	
12 Acenaphthene	153	6.105	6.105	0.000	95	67608	0.5000	0.4904	
14 Fluorene	166	6.663	6.663	0.000	96	63176	0.5000	0.4827	
15 Phenanthrene	178	7.715	7.715	0.000	97	85497	0.5000	0.5061	
16 Anthracene	178	7.768	7.774	-0.006	98	77797	0.5000	0.4897	
17 Fluoranthene	202	9.014	9.020	-0.006	98	81173	0.5000	0.4800	
18 Pyrene	202	9.255	9.260	-0.006	97	85999	0.5000	0.5208	
19 Benzo[a]anthracene	228	10.500	10.506	-0.006	97	54477	0.5000	0.4959	
20 Chrysene	228	10.535	10.541	-0.006	99	52854	0.5000	0.5096	
21 Benzo[b]fluoranthene	252	11.599	11.611	-0.012	98	51925	0.5000	0.5058	
22 Benzo[k]fluoranthene	252	11.628	11.640	-0.012	98	50311	0.5000	0.4734	
23 Benzo[a]pyrene	252	11.975	11.987	-0.012	97	44106	0.5000	0.4921	
24 Indeno[1,2,3-cd]pyrene	276	13.561	13.573	-0.012	98	48365	0.5000	0.4822	
25 Dibenz(a,h)anthracene	278	13.591	13.602	-0.011	95	40712	0.5000	0.4895	
26 Benzo[g,h,i]perylene	276	14.014	14.031	-0.017	98	44165	0.5000	0.4856	

Reagents:

SMLLPAH0.5LVI_00020 Amount Added: 1.00 Units: mL

Report Date: 23-Oct-2014 10:11:25 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2208.D

Injection Date: 22-Oct-2014 15:54:30 Instrument ID: CMSK Operator ID: RM

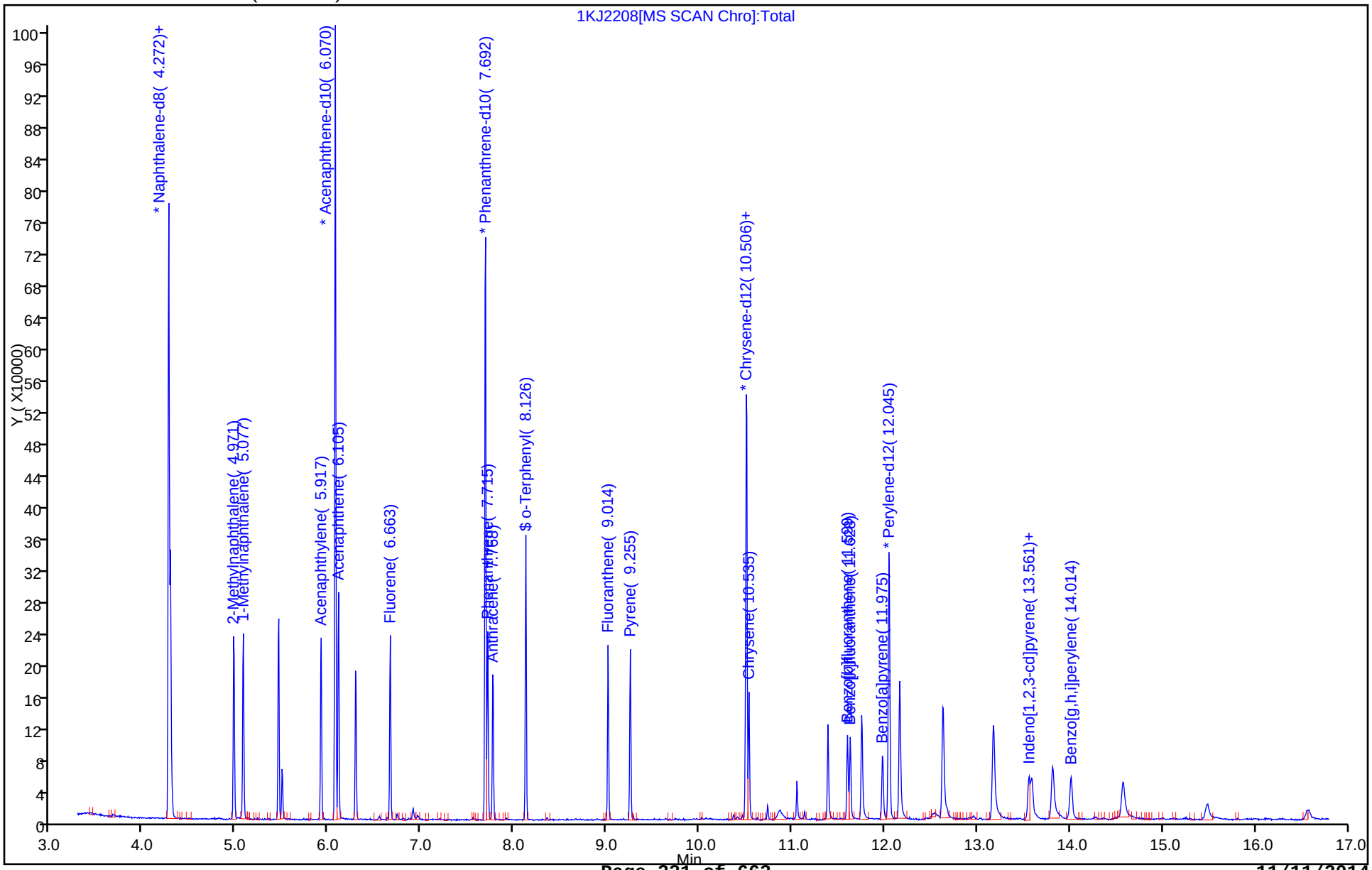
Lims ID: IC Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 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\20141022-13989.b\1KJ2209.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 22-Oct-2014 16:17:30 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0013989-009
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 23-Oct-2014 10:11:26 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

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

First Level Reviewer: moorer Date: 23-Oct-2014 10:09:57

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	4.272	4.272	0.000	99	337923	2.00	2.00	
* 2 Acenaphthene-d10	164	6.070	6.070	0.000	92	167521	2.00	2.00	
* 3 Phenanthrene-d10	188	7.686	7.692	-0.006	98	224157	2.00	2.00	
* 4 Chrysene-d12	240	10.512	10.518	-0.006	99	148369	2.00	2.00	
* 5 Perylene-d12	264	12.051	12.057	-0.006	99	134310	2.00	2.00	
$ 6 o-Terphenyl	230	8.126	8.132	-0.006	90	20132	0.2000	0.2191	
7 Naphthalene	128	4.290	4.290	0.000	98	36787	0.2000	0.1971	
9 2-Methylnaphthalene	142	4.971	4.977	-0.006	85	22543	0.2000	0.1952	
8 1-Methylnaphthalene	142	5.077	5.077	0.000	94	22085	0.2000	0.2020	
11 Acenaphthylene	152	5.917	5.917	0.000	97	30309	0.2000	0.1921	
12 Acenaphthene	153	6.105	6.105	0.000	94	21982	0.2000	0.2026	
14 Fluorene	166	6.663	6.663	0.000	96	19993	0.2000	0.1941	
15 Phenanthrene	178	7.715	7.715	0.000	96	27846	0.2000	0.2040	
16 Anthracene	178	7.768	7.774	-0.006	98	24587	0.2000	0.1915	
17 Fluoranthene	202	9.014	9.020	-0.006	98	27097	0.2000	0.1983	
18 Pyrene	202	9.255	9.260	-0.005	97	28338	0.2000	0.2128	
19 Benzo[a]anthracene	228	10.500	10.506	-0.006	97	18211	0.2000	0.2056	
20 Chrysene	228	10.535	10.541	-0.006	98	18436	0.2000	0.2205	
21 Benzo[b]fluoranthene	252	11.599	11.611	-0.012	98	17256	0.2000	0.1987	
22 Benzo[k]fluoranthene	252	11.628	11.640	-0.012	97	18242	0.2000	0.2029	
23 Benzo[a]pyrene	252	11.981	11.987	-0.006	97	15167	0.2000	0.2000	
24 Indeno[1,2,3-cd]pyrene	276	13.561	13.573	-0.012	85	17181	0.2000	0.2124	
25 Dibenz(a,h)anthracene	278	13.597	13.602	-0.005	94	12920	0.2000	0.1836	
26 Benzo[g,h,i]perylene	276	14.014	14.031	-0.017	97	15388	0.2000	0.2000	

Reagents:

SMLLPAH0.2LVI_00019 Amount Added: 1.00 Units: mL

Report Date: 23-Oct-2014 10:11:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Injection Date: 22-Oct-2014 16:17:30 Instrument ID: CMSK Operator ID: RM

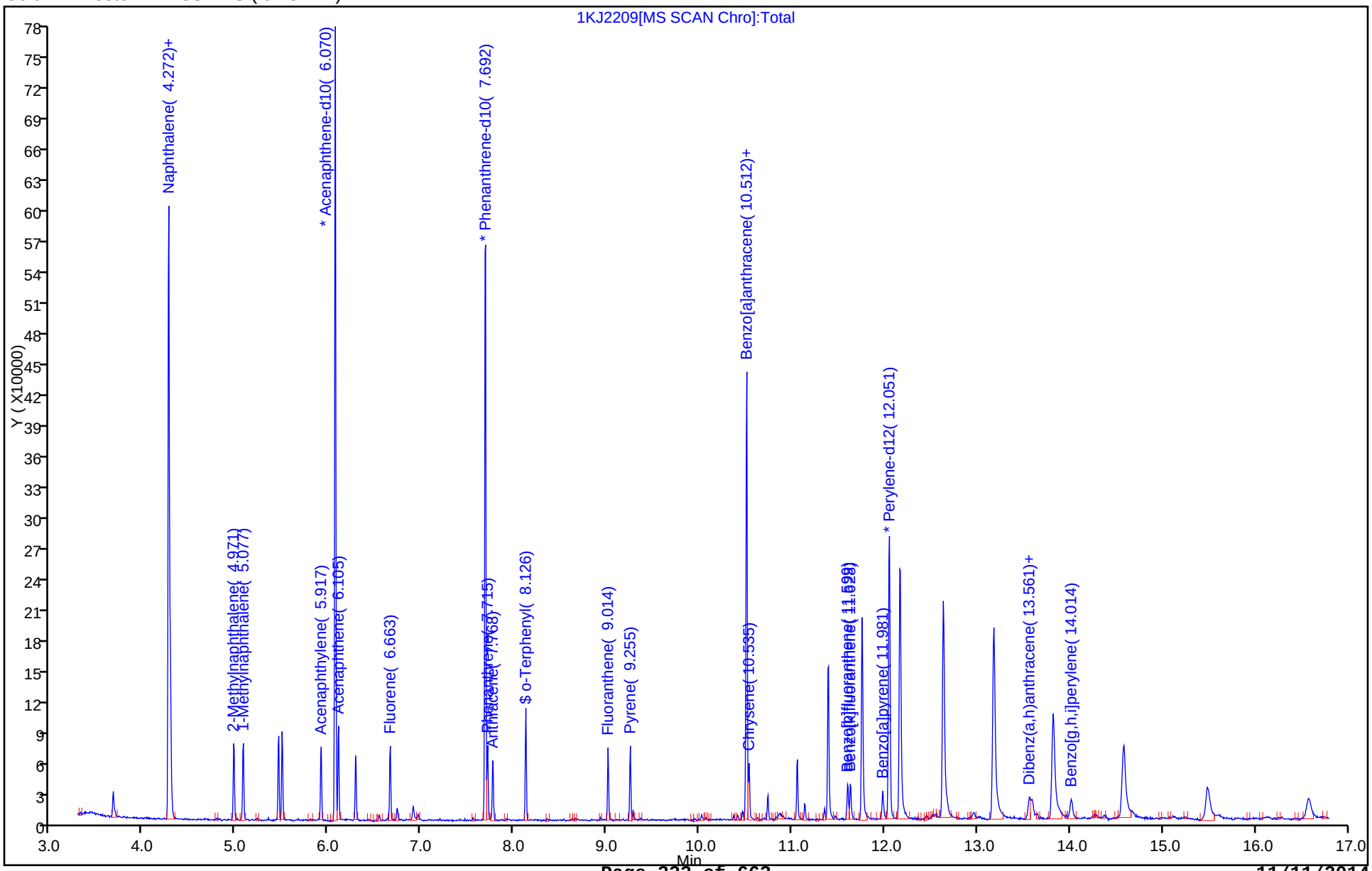
Lims ID: IC Worklist Smp#: 9

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 VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Lab Sample ID: ICV 680-354813/10 Calibration Date: 10/22/2014 16:40

Instrument ID: CMSK Calib Start Date: 10/22/2014 13:59

GC Column: RXi- 5Sil MS ID: 0.25(mm) Calib End Date: 10/22/2014 16:17

Lab File ID: 1KJ2210.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.104	1.000	0.7000	4.53	5.00	-9.4	30.0
2-Methylnaphthalene	Ave	0.6835	0.5871	0.4000	4.30	5.00	-14.1	30.0
1-Methylnaphthalene	Ave	0.6470	0.5717		4.42	5.00	-11.6	30.0
Acenaphthylene	Ave	1.883	1.784	0.9000	4.74	5.00	-5.3	30.0
Acenaphthene	Ave	1.295	1.210	0.9000	4.67	5.00	-6.6	30.0
Fluorene	Ave	1.230	1.133	0.9000	4.61	5.00	-7.9	30.0
Phenanthrene	Ave	1.218	1.116	0.7000	4.58	5.00	-8.4	30.0
Anthracene	Ave	1.146	1.086	0.7000	4.74	5.00	-5.2	30.0
Fluoranthene	Ave	1.219	1.199	0.6000	4.92	5.00	-1.7	30.0
Pyrene	Ave	1.795	1.429	0.6000	3.98	5.00	-20.4	30.0
Benzo[a]anthracene	Ave	1.194	1.083	0.7000	4.54	5.00	-9.3	30.0
Chrysene	Ave	1.127	1.071	0.7000	4.75	5.00	-5.0	30.0
Benzo[b]fluoranthene	Ave	1.293	1.211	0.4000	4.68	5.00	-6.3	30.0
Benzo[k]fluoranthene	Ave	1.339	1.236	0.4000	4.62	5.00	-7.7	30.0
Benzo[a]pyrene	Ave	1.129	1.061	0.4000	4.70	5.00	-6.0	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.090	0.9908	0.2000	4.54	5.00	-9.1	30.0
Dibenz(a,h)anthracene	Ave	1.048	0.9697	0.2000	4.63	5.00	-7.5	30.0
Benzo[g,h,i]perylene	Ave	1.146	1.016	0.2000	4.43	5.00	-11.3	30.0
o-Terphenyl	Ave	1.239	0.9858		3.98	5.00	-20.4	30.0

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2210.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 22-Oct-2014 16:40:30 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 680-0013989-010
Operator ID: RM Instrument ID: CMSK
Sublist:

Method: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 23-Oct-2014 10:11:26 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

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

First Level Reviewer: moorer Date: 23-Oct-2014 10:10:59

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	4.272	4.272	0.000	99	336948	2.00	2.00	
* 2 Acenaphthene-d10	164	6.070	6.070	0.000	92	158564	2.00	2.00	
* 3 Phenanthrene-d10	188	7.692	7.692	0.000	98	206104	2.00	2.00	
* 4 Chrysene-d12	240	10.512	10.518	-0.006	99	176462	2.00	2.00	
* 5 Perylene-d12	264	12.051	12.057	-0.006	99	152435	2.00	2.00	
$ 6 o-Terphenyl	230	8.127	8.132	-0.005	90	434891	5.00	3.98	
7 Naphthalene	128	4.290	4.290	0.000	99	842394	5.00	4.53	
9 2-Methylnaphthalene	142	4.977	4.977	0.000	85	494592	5.00	4.30	
8 1-Methylnaphthalene	142	5.077	5.077	0.000	93	481564	5.00	4.42	
11 Acenaphthylene	152	5.917	5.917	0.000	98	707155	5.00	4.74	
12 Acenaphthene	153	6.105	6.105	0.000	95	479738	5.00	4.67	
14 Fluorene	166	6.664	6.663	0.001	95	449167	5.00	4.61	
15 Phenanthrene	178	7.715	7.715	0.000	97	574823	5.00	4.58	
16 Anthracene	178	7.774	7.774	0.000	99	559362	5.00	4.74	
17 Fluoranthene	202	9.014	9.020	-0.006	98	617677	5.00	4.92	
18 Pyrene	202	9.255	9.260	-0.005	97	630213	5.00	3.98	
19 Benzo[a]anthracene	228	10.500	10.506	-0.006	98	477957	5.00	4.54	
20 Chrysene	228	10.541	10.541	0.000	98	472573	5.00	4.75	
21 Benzo[b]fluoranthene	252	11.605	11.611	-0.006	98	461578	5.00	4.68	
22 Benzo[k]fluoranthene	252	11.634	11.640	-0.006	98	471062	5.00	4.62	
23 Benzo[a]pyrene	252	11.987	11.987	0.000	97	404325	5.00	4.70	
24 Indeno[1,2,3-cd]pyrene	276	13.567	13.573	-0.006	99	437075	5.00	4.54	
25 Dibenz(a,h)anthracene	278	13.603	13.602	0.001	95	369550	5.00	4.63	
26 Benzo[g,h,i]perylene	276	14.026	14.031	-0.005	98	387109	5.00	4.43	

Reagents:

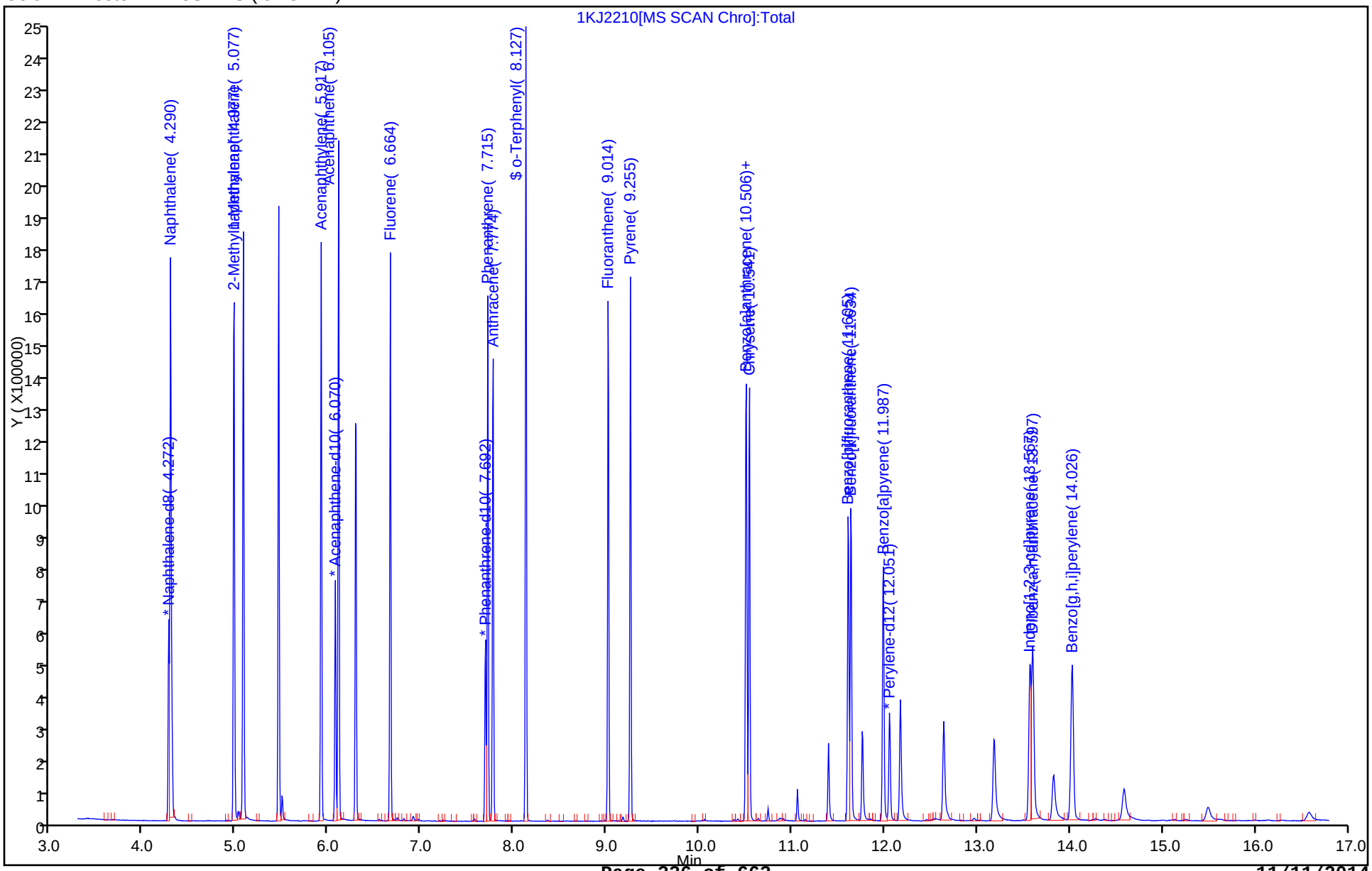
SMLLPAHICVLVI_00030 Amount Added: 1.00 Units: mL

Report Date: 23-Oct-2014 10:11:28 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2210.D				
Injection Date:	22-Oct-2014 16:40:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	ICV			Worklist Smp#:	10
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.: 680-106803-1

SDG No.: 680-106803-01

Lab Sample ID: CCVIS 680-356621/2 Calibration Date: 11/03/2014 10:32

Instrument ID: CMSK Calib Start Date: 10/22/2014 13:59

GC Column: RXi- 5Sil MS ID: 0.25(mm) Calib End Date: 10/22/2014 16:17

Lab File ID: 1KK0302.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.104	1.105	0.7000	5.00	5.00	0.0	20.0
2-Methylnaphthalene	Ave	0.6835	0.6927	0.4000	5.07	5.00	1.4	20.0
1-Methylnaphthalene	Ave	0.6470	0.6474		5.00	5.00	0.0	20.0
Acenaphthylene	Ave	1.883	1.896	0.9000	5.03	5.00	0.7	20.0
Acenaphthene	Ave	1.295	1.283	0.9000	4.95	5.00	-1.0	20.0
Fluorene	Ave	1.230	1.253	0.9000	5.09	5.00	1.9	20.0
Phenanthrene	Ave	1.218	1.188	0.7000	4.87	5.00	-2.5	20.0
Anthracene	Ave	1.146	1.134	0.7000	4.95	5.00	-1.0	20.0
Fluoranthene	Ave	1.219	1.254	0.6000	5.14	5.00	2.9	20.0
Pyrene	Ave	1.795	1.423	0.6000	3.96	5.00	-20.7*	20.0
Benzo[a]anthracene	Ave	1.194	1.119	0.7000	4.68	5.00	-6.3	20.0
Chrysene	Ave	1.127	1.050	0.7000	4.66	5.00	-6.8	20.0
Benzo[b]fluoranthene	Ave	1.293	1.206	0.4000	4.66	5.00	-6.8	20.0
Benzo[k]fluoranthene	Ave	1.339	1.296	0.4000	4.84	5.00	-3.2	20.0
Benzo[a]pyrene	Ave	1.129	1.110	0.4000	4.92	5.00	-1.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.090	1.105	0.2000	5.07	5.00	1.3	20.0
Dibenz(a,h)anthracene	Ave	1.048	1.026	0.2000	4.90	5.00	-2.0	20.0
Benzo[g,h,i]perylene	Ave	1.146	1.052	0.2000	4.59	5.00	-8.2	20.0
o-Terphenyl	Ave	1.239	0.8906		3.59	5.00	-28.1*	20.0

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0302.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 03-Nov-2014 10:32:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 680-0014354-002
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 04-Nov-2014 09:15:46 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 04-Nov-2014 09:15:46

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	3.893	3.893	0.000	99	280448	2.00	2.00	
* 2 Acenaphthene-d10	164	5.662	5.662	0.000	92	145494	2.00	2.00	
* 3 Phenanthrene-d10	188	7.266	7.266	0.000	98	214195	2.00	2.00	
* 4 Chrysene-d12	240	10.092	10.092	0.000	99	198869	2.00	2.00	
* 5 Perylene-d12	264	11.496	11.496	0.000	99	179257	2.00	2.00	s
$ 6 o-Terphenyl	230	7.712	7.712	0.000	90	442787	5.00	3.59	
7 Naphthalene	128	3.911	3.911	0.000	99	774544	5.00	5.00	
9 2-Methylnaphthalene	142	4.586	4.586	0.000	86	485697	5.00	5.07	
8 1-Methylnaphthalene	142	4.680	4.680	0.000	93	453896	5.00	5.00	
11 Acenaphthylene	152	5.509	5.509	0.000	98	689787	5.00	5.03	
12 Acenaphthene	153	5.697	5.697	0.000	95	466530	5.00	4.95	
13 Dibenzofuran	168	5.879	5.879	0.000	100	556915	NC	NC	
14 Fluorene	166	6.249	6.249	0.000	96	455639	5.00	5.09	
15 Phenanthrene	178	7.289	7.289	0.000	97	635927	5.00	4.87	
16 Anthracene	178	7.348	7.348	0.000	98	607147	5.00	4.95	
17 Fluoranthene	202	8.594	8.594	0.000	98	671569	5.00	5.14	
18 Pyrene	202	8.829	8.829	0.000	97	707326	5.00	3.96	
19 Benzo[a]anthracene	228	10.080	10.080	0.000	97	556085	5.00	4.68	
20 Chrysene	228	10.115	10.115	0.000	98	522165	5.00	4.66	
21 Benzo[b]fluoranthene	252	11.114	11.114	0.000	98	540290	5.00	4.66	
22 Benzo[k]fluoranthene	252	11.138	11.138	0.000	98	580622	5.00	4.84	
23 Benzo[a]pyrene	252	11.437	11.437	0.000	97	497545	5.00	4.92	
24 Indeno[1,2,3-cd]pyrene	276	12.765	12.765	0.000	97	549239	5.00	5.07	
25 Dibenz(a,h)anthracene	278	12.795	12.795	0.000	95	460008	5.00	4.90	
26 Benzo[g,h,i]perylene	276	13.141	13.141	0.000	98	471619	5.00	4.59	

QC Flag Legend

Processing Flags

NC - Not Calibrated

s - Failed ISTD Recovery Test

Reagents:

SMLLPAH5.0LVI_00023 Amount Added: 1.00 Units: mL

Report Date: 04-Nov-2014 09:15:46 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0302.D

Injection Date: 03-Nov-2014 10:32:30 Instrument ID: CMSK Operator ID: RM

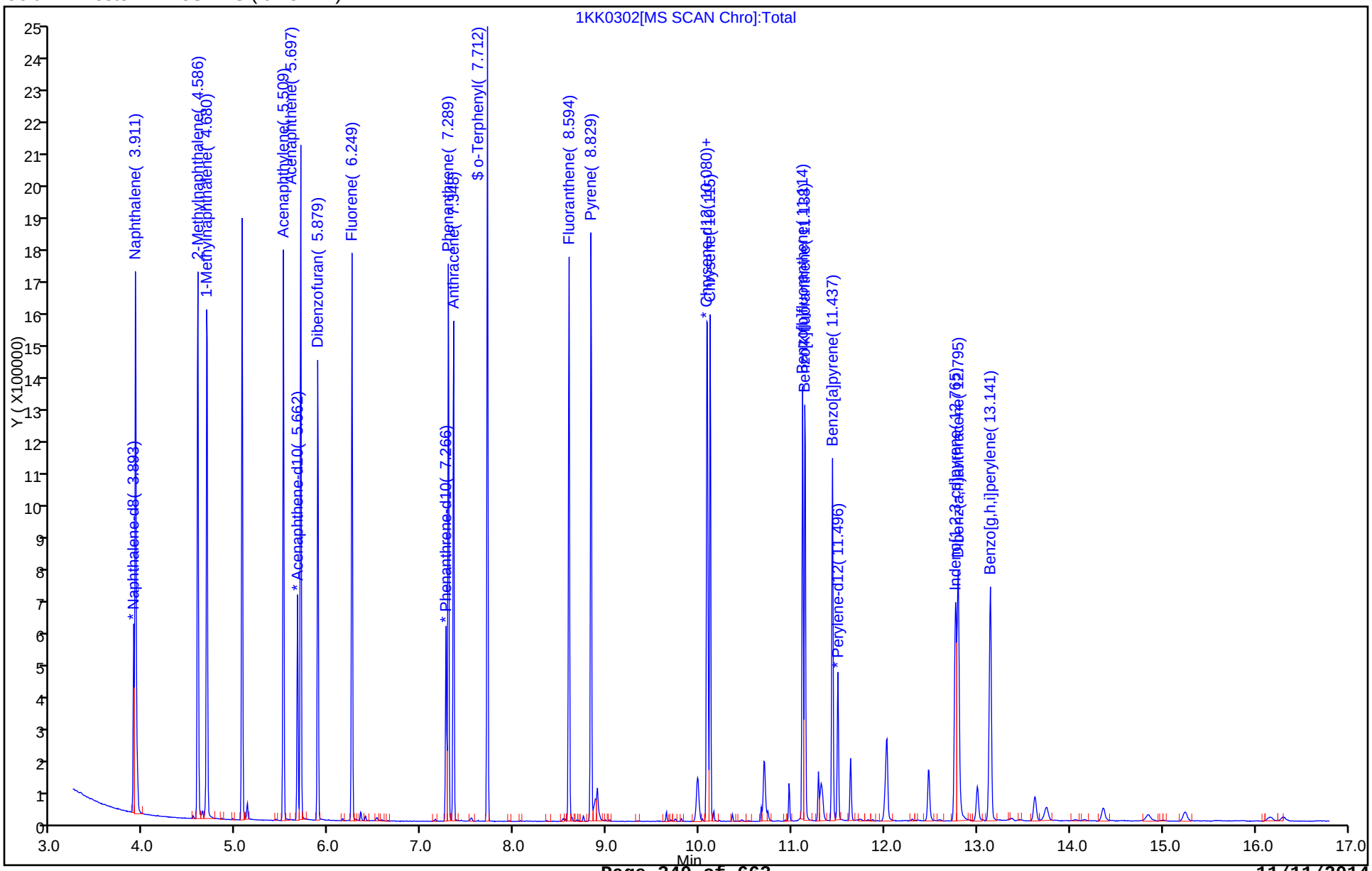
Lims ID: CCVIS Worklist Smp#: 2

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\20141022-13989.b\1KJ2202.D				
Lims ID:	DFTPP				
Client ID:					
Sample Type:	DFTPP				
Inject. Date:	22-Oct-2014 13:45:30	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	DFTPP				
Misc. Info.:	680-0013989-002				
Operator ID:	RM	Instrument ID:	CMSK		
Method:	\\SAVCHROM\ChromData\CMSK\20141022-13989.b\8270_LLPAH_CMSK.m				
Limit Group:	8270D_LL_PAH				
Last Update:	23-Oct-2014 10:11:19	Calib Date:	22-Oct-2014 16:17:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D				
Column 1 :	Restek RXi-5Sil MS (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK022				

First Level Reviewer: moorer Date: 23-Oct-2014 10:11:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
27 DFTPP									
30 4,4'-DDE	246	6.728	6.728	0.000	87	355		NR	7
28 4,4'-DDD	235	7.063	7.063	0.000	95	4616		NR	7
29 4,4'-DDT	235	7.310	7.310	0.000	99	212973	NR	NR	7

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
7 - Failed Limit of Detection

Reagents:

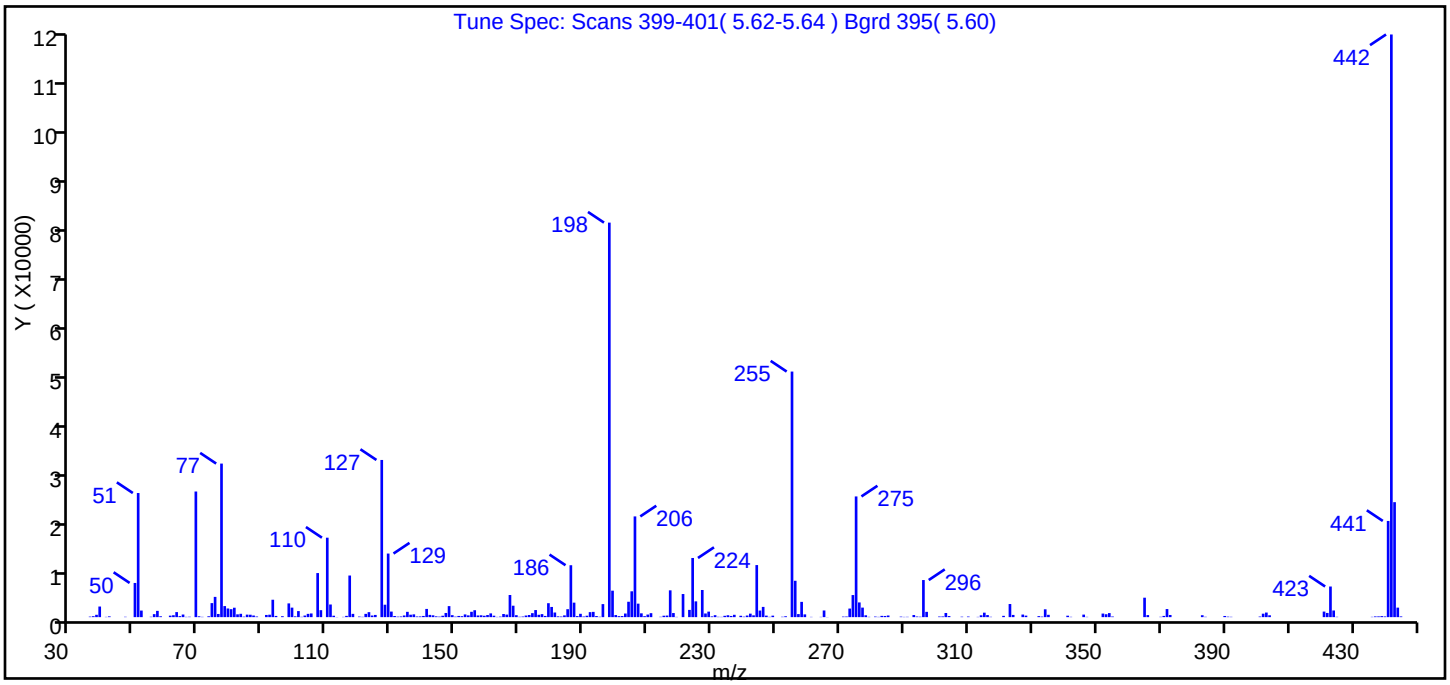
SM-LLTUNE_00079 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2202.D
Injection Date: 22-Oct-2014 13:45:30 Instrument ID: CMSK
Lims ID: DFTPP
Client ID:
Operator ID: RM ALS Bottle#: 1 Worklist Smp#: 2
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, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 442	21.30
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	21.60
70	Less than 2.00% of mass 69	0.10 (0.60)
127	10.00 - 80.00% of mass 442	27.00
197	Less than 2.00% of mass 198	0.00 (0.00)
198	Greater than 50.00% of mass 442	67.70
199	5.00 - 9.00% of mass 198	4.50 (6.70)
275	10.00 - 60.00% of mass 442	20.70
365	Greater than 1.00% of mass 442	3.30
441	Present, but less than mass 443	16.50 (83.70)
443	15.00 - 24.00% of mass 442	19.70

Data File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2202.D\8270_LLPAH_CMSK.rslt\spectra.d
Injection Date: 22-Oct-2014 13:45:30
Spectrum: Tune Spec: Scans 399-401(5.62-5.64) Bgrd 395(5.60)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 276

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	107	127.00	31608	196.00	2622	283.00	256
37.00	189	128.00	2499	198.00	79336	284.00	236
38.00	472	129.00	12788	199.00	5322	285.00	328
39.00	2134	130.00	1119	200.00	417	289.00	103
41.00	53	131.00	227	201.00	199	290.00	50
42.00	154	132.00	101	202.00	219	291.00	64
47.00	72	133.00	136	203.00	728	293.00	424
50.00	6876	134.00	333	204.00	3095	294.00	122
51.00	24960	135.00	1067	205.00	5197	295.00	83
52.00	1323	136.00	490	206.00	20256	296.00	7461
55.00	76	137.00	559	207.00	2711	297.00	1065
56.00	604	138.00	131	208.00	767	301.00	127
57.00	1262	139.00	141	209.00	194	302.00	139
58.00	173	140.00	241	210.00	517	303.00	834
61.00	300	141.00	1651	211.00	799	304.00	218
62.00	383	142.00	454	214.00	71	308.00	92
63.00	1014	143.00	367	215.00	287	310.00	121
64.00	200	144.00	159	216.00	319	313.00	52
65.00	526	145.00	105	217.00	5391	314.00	373
66.00	56	146.00	280	218.00	824	315.00	899
67.00	82	147.00	837	219.00	50	316.00	418
69.00	25264	148.00	2217	221.00	4647	317.00	69
70.00	164	149.00	396	223.00	1457	321.00	261
71.00	59	150.00	96	224.00	11897	323.00	2638
73.00	173	151.00	241	225.00	3173	324.00	447
74.00	2823	152.00	191	227.00	5459	327.00	520
75.00	4074	153.00	547	228.00	736	328.00	304
76.00	638	154.00	355	229.00	1110	332.00	201
77.00	30880	155.00	1076	230.00	146	333.00	105
78.00	2223	156.00	1392	231.00	392	334.00	1579
79.00	1743	157.00	337	232.00	71	335.00	468
80.00	1603	158.00	373	233.00	55	341.00	289
81.00	1895	159.00	280	234.00	269	342.00	64

Report Date: 23-Oct-2014 10:11:19 Chrom Revision: 2.2 07-Oct-2014 12:16:06
Data File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2202.D\8270_LLPAH_CMSK.rslt\spectra.d
Injection Date: 22-Oct-2014 13:45:30
Spectrum: Tune Spec: Scans 399-401(5.62-5.64) Bgrd 395(5.60)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 276

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	563	160.00	428	235.00	379	346.00	510
83.00	671	161.00	757	236.00	239	347.00	58
84.00	100	162.00	290	237.00	472	352.00	719
85.00	504	163.00	50	239.00	275	353.00	585
86.00	485	164.00	106	240.00	95	354.00	816
87.00	326	165.00	631	241.00	323	355.00	127
88.00	127	166.00	512	242.00	701	365.00	3909
91.00	441	167.00	4451	243.00	364	366.00	413
92.00	490	168.00	2299	244.00	10471	370.00	69
93.00	3500	169.00	394	245.00	1326	371.00	248
94.00	244	170.00	75	246.00	2058	372.00	1628
96.00	187	171.00	120	247.00	304	373.00	435
98.00	2765	172.00	325	248.00	61	383.00	386
99.00	1913	173.00	432	249.00	299	384.00	70
100.00	158	174.00	802	252.00	78	390.00	234
101.00	1219	175.00	1425	253.00	177	391.00	100
102.00	64	176.00	471	255.00	49384	392.00	66
103.00	321	177.00	607	256.00	7312	401.00	121
104.00	661	178.00	244	257.00	616	402.00	696
105.00	741	179.00	2806	258.00	3071	403.00	924
107.00	8864	180.00	2049	259.00	557	404.00	375
108.00	1403	181.00	931	261.00	52	421.00	1121
110.00	15977	182.00	160	264.00	52	422.00	843
111.00	2543	183.00	121	265.00	1340	423.00	6160
112.00	284	184.00	355	266.00	30	424.00	1337
113.00	32	185.00	1599	271.00	111	425.00	67
115.00	51	186.00	10439	272.00	121	436.00	63
116.00	256	187.00	2915	273.00	1725	437.00	142
117.00	8369	188.00	212	274.00	4442	438.00	150
118.00	659	189.00	671	275.00	24272	439.00	204
120.00	117	190.00	121	276.00	2957	440.00	137
121.00	63	191.00	286	277.00	1917	441.00	19344
122.00	658	192.00	1006	278.00	372	442.00	117168
123.00	1001	193.00	1059	279.00	63	443.00	23120

Report Date: 23-Oct-2014 10:11:19 Chrom Revision: 2.2 07-Oct-2014 12:16:06
Data File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2202.D\8270_LLPAH_CMSK.rslt\spectra.d
Injection Date: 22-Oct-2014 13:45:30
Spectrum: Tune Spec: Scans 399-401(5.62-5.64) Bgrd 395(5.60)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 276

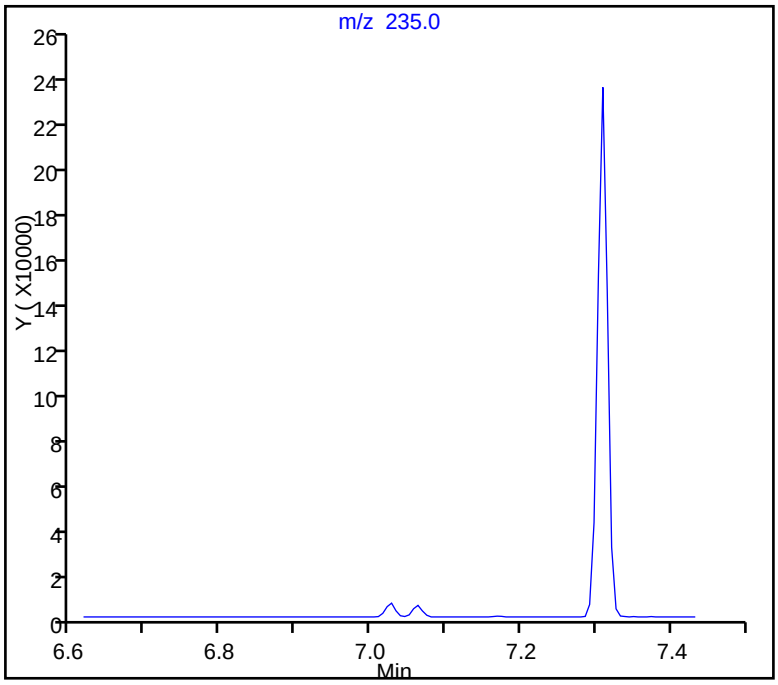
m/z	Y	m/z	Y	m/z	Y	m/z	Y
124.00	326	194.00	217	281.00	115	444.00	1913
125.00	444	195.00	76	282.00	55	445.00	143

Breakdown Report

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2202.D				
Injection Date:	22-Oct-2014 13:45:30	Instrument ID:	CMSK		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	RM	ALS Bottle#:	1	Worklist Smp#:	2
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 = 212973
28 4,4'-DDD, Area = 4616
30 4,4'-DDE, Area = 355

%Breakdown: 2.28%, Max Limit: 20.00%
Passed

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0301.D				
Lims ID:	DFTPP				
Client ID:					
Sample Type:	DFTPP				
Inject. Date:	03-Nov-2014 10:18:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	DFTPP				
Misc. Info.:	680-0014354-001				
Operator ID:	RM	Instrument ID:	CMSK		
Method:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m				
Limit Group:	8270D_LL_PAH				
Last Update:	04-Nov-2014 09:15:47	Calib Date:	22-Oct-2014 16:17:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D				
Column 1 :	Restek RXi-5Sil MS (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: webbk		Date:	04-Nov-2014 09:15:09		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
27 DFTPP									
30 4,4'-DDE	246	6.290	6.290	0.000	76	348		NR	7
28 4,4'-DDD	235	6.608	6.608	0.000	96	3848		NR	7
29 4,4'-DDT	235	6.837	6.837	0.000	99	188771	NR	NR	7

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
7 - Failed Limit of Detection

Reagents:

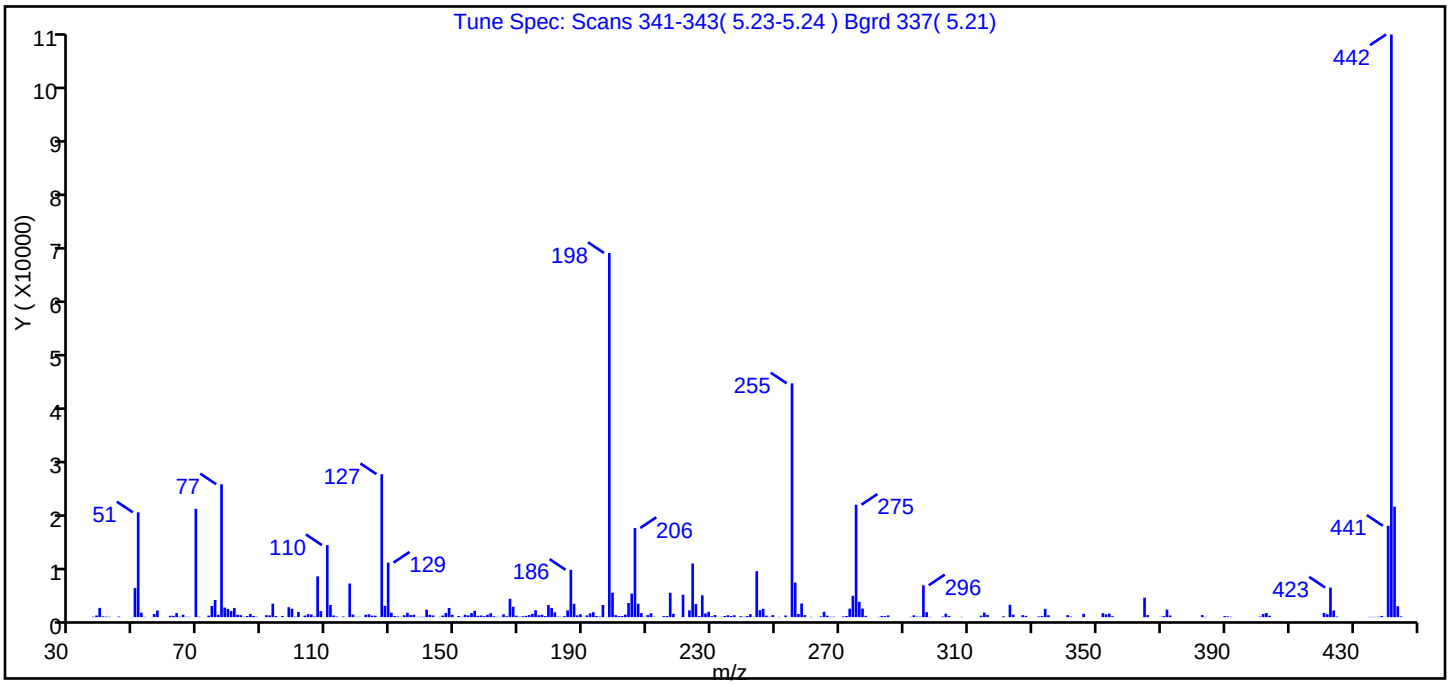
SM-LLTUNE_00079 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0301.D				
Injection Date:	03-Nov-2014 10:18:30	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, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 442	18.00
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	18.60
70	Less than 2.00% of mass 69	0.10 (0.40)
127	10.00 - 80.00% of mass 442	24.50
197	Less than 2.00% of mass 198	0.00 (0.00)
198	Greater than 50.00% of mass 442	62.50
199	5.00 - 9.00% of mass 198	4.20 (6.70)
275	10.00 - 60.00% of mass 442	19.30
365	Greater than 1.00% of mass 442	3.30
441	Present, but less than mass 443	15.70 (82.70)
443	15.00 - 24.00% of mass 442	19.00

Data File: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0301.D\8270_LLPAH_CMSK.rslt\spectra.d
Injection Date: 03-Nov-2014 10:18:30
Spectrum: Tune Spec: Scans 341-343(5.23-5.24) Bgrd 337(5.21)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 266

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	77	124.00	290	195.00	106	278.00	243
38.00	308	125.00	268	196.00	2258	282.00	50
39.00	1720	127.00	26560	198.00	67632	283.00	228
40.00	147	128.00	2102	199.00	4538	284.00	185
41.00	96	129.00	10119	200.00	377	285.00	335
42.00	72	130.00	829	201.00	205	292.00	57
44.00	6	131.00	209	202.00	223	293.00	348
45.00	115	132.00	129	203.00	458	294.00	102
49.00	43	133.00	61	204.00	2622	295.00	88
50.00	5396	134.00	358	205.00	4376	296.00	5917
51.00	19464	135.00	829	206.00	16560	297.00	919
52.00	841	136.00	386	207.00	2483	298.00	52
53.00	65	137.00	448	208.00	747	302.00	117
55.00	15	138.00	53	209.00	57	303.00	630
56.00	584	139.00	63	210.00	379	304.00	222
57.00	1236	140.00	70	211.00	729	308.00	57
61.00	247	141.00	1383	212.00	64	314.00	278
62.00	256	142.00	446	215.00	193	315.00	841
63.00	762	143.00	321	216.00	217	316.00	405
64.00	88	145.00	51	217.00	4527	321.00	165
65.00	460	146.00	291	218.00	620	323.00	2297
66.00	70	147.00	783	221.00	4166	324.00	454
67.00	57	148.00	1709	223.00	1269	327.00	370
69.00	20120	149.00	434	224.00	9969	328.00	244
70.00	79	151.00	204	225.00	2451	332.00	132
73.00	285	152.00	68	226.00	188	333.00	195
74.00	2076	153.00	452	227.00	4053	334.00	1536
75.00	3194	154.00	323	228.00	679	335.00	346
76.00	454	155.00	765	229.00	1001	341.00	375
77.00	24680	156.00	1173	230.00	171	342.00	111
78.00	1771	157.00	252	231.00	398	346.00	619
79.00	1535	158.00	301	233.00	58	352.00	739
80.00	1124	159.00	183	234.00	212	353.00	510

Report Date: 04-Nov-2014 09:15:47 Chrom Revision: 2.2 07-Oct-2014 12:16:06
Data File: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0301.D\8270_LLPAH_CMSK.rslt\spectra.d
Injection Date: 03-Nov-2014 10:18:30
Spectrum: Tune Spec: Scans 341-343(5.23-5.24) Bgrd 337(5.21)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 266

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	1711	160.00	451	235.00	357	354.00	648
82.00	440	161.00	731	236.00	207	355.00	176
83.00	369	162.00	163	237.00	355	365.00	3617
84.00	57	163.00	53	239.00	172	366.00	379
85.00	218	164.00	57	240.00	60	370.00	60
86.00	586	165.00	520	241.00	220	371.00	199
87.00	227	166.00	168	242.00	548	372.00	1394
88.00	78	167.00	3401	243.00	60	373.00	299
91.00	367	168.00	1938	244.00	8541	383.00	385
92.00	328	169.00	266	245.00	1292	384.00	59
93.00	2518	170.00	81	246.00	1556	390.00	203
94.00	202	171.00	169	247.00	270	391.00	143
96.00	226	172.00	250	248.00	66	392.00	70
98.00	1848	173.00	392	249.00	381	401.00	105
99.00	1556	174.00	606	251.00	58	402.00	585
100.00	79	175.00	1280	253.00	306	403.00	766
101.00	972	176.00	334	255.00	43424	404.00	262
103.00	288	177.00	451	256.00	6411	421.00	790
104.00	542	178.00	211	257.00	590	422.00	538
105.00	496	179.00	2248	258.00	2537	423.00	5499
106.00	113	180.00	1716	259.00	375	424.00	1240
107.00	7577	181.00	885	261.00	58	425.00	116
108.00	1127	182.00	86	264.00	150	435.00	51
110.00	13376	183.00	50	265.00	996	436.00	50
111.00	2247	184.00	175	266.00	274	437.00	53
112.00	308	185.00	1259	267.00	61	438.00	78
113.00	123	186.00	8797	268.00	67	439.00	226
115.00	120	187.00	2474	271.00	124	441.00	16968
117.00	6242	188.00	329	272.00	217	442.00	108208
118.00	483	189.00	531	273.00	1571	443.00	20512
119.00	58	191.00	321	274.00	3975	444.00	2031
120.00	66	192.00	706	275.00	20880	445.00	142
122.00	439	193.00	911	276.00	2853		
123.00	540	194.00	201	277.00	1600		

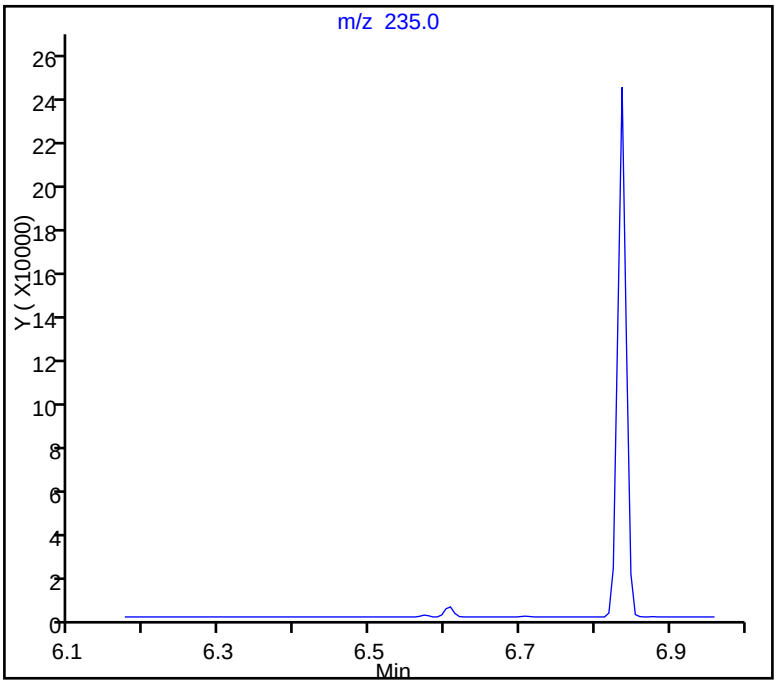
m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	1711	160.00	451	235.00	357	354.00	648
82.00	440	161.00	731	236.00	207	355.00	176
83.00	369	162.00	163	237.00	355	365.00	3617
84.00	57	163.00	53	239.00	172	366.00	379
85.00	218	164.00	57	240.00	60	370.00	60
86.00	586	165.00	520	241.00	220	371.00	199
87.00	227	166.00	168	242.00	548	372.00	1394
88.00	78	167.00	3401	243.00	60	373.00	299
91.00	367	168.00	1938	244.00	8541	383.00	385
92.00	328	169.00	266	245.00	1292	384.00	59
93.00	2518	170.00	81	246.00	1556	390.00	203
94.00	202	171.00	169	247.00	270	391.00	143
96.00	226	172.00	250	248.00	66	392.00	70
98.00	1848	173.00	392	249.00	381	401.00	105
99.00	1556	174.00	606	251.00	58	402.00	585
100.00	79	175.00	1280	253.00	306	403.00	766
101.00	972	176.00	334	255.00	43424	404.00	262
103.00	288	177.00	451	256.00	6411	421.00	790
104.00	542	178.00	211	257.00	590	422.00	538
105.00	496	179.00	2248	258.00	2537	423.00	5499
106.00	113	180.00	1716	259.00	375	424.00	1240
107.00	7577	181.00	885	261.00	58	425.00	116
108.00	1127	182.00	86	264.00	150	435.00	51
110.00	13376	183.00	50	265.00	996	436.00	50
111.00	2247	184.00	175	266.00	274	437.00	53
112.00	308	185.00	1259	267.00	61	438.00	78
113.00	123	186.00	8797	268.00	67	439.00	226
115.00	120	187.00	2474	271.00	124	441.00	16968
117.00	6242	188.00	329	272.00	217	442.00	108208
118.00	483	189.00	531	273.00	1571	443.00	20512
119.00	58	191.00	321	274.00	3975	444.00	2031
120.00	66	192.00	706	275.00	20880	445.00	142
122.00	439	193.00	911	276.00	2853		
123.00	540	194.00	201	277.00	1600		

Breakdown Report

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0301.D				
Injection Date:	03-Nov-2014 10:18:30	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 = 188771
28 4,4'-DDD, Area = 3848
30 4,4'-DDE, Area = 348

%Breakdown: 2.17%, Max Limit: 20.00%
Passed

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG No.: 680-106803-01
Client Sample ID:
Lab Sample ID: MB 680-356398/21-A
Matrix: Solid
Lab File ID: 1KK0305.D
Analysis Method: 8270D_LL_PAH
Date Collected:
Extract. Method: 3546
Date Extracted: 10/31/2014 17:08
Sample wt/vol: 30.04(g)
Date Analyzed: 11/03/2014 11:52
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 356621
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	74		36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0305.D
Lims ID: MB 680-356398/21-A
Client ID:
Sample Type: MB
Inject. Date: 03-Nov-2014 11:52:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 680-356398/21-A
Misc. Info.: 680-0014354-005
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 04-Nov-2014 09:15:09 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 03-Nov-2014 12:28:17

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	3.893	3.893	0.000	99	818206	4.00	4.00	s
* 2 Acenaphthene-d10	164	5.662	5.662	0.000	91	465331	4.00	4.00	s
* 3 Phenanthrene-d10	188	7.272	7.266	0.006	98	725462	4.00	4.00	s
* 4 Chrysene-d12	240	10.098	10.092	0.006	99	452997	4.00	4.00	s
* 5 Perylene-d12	264	11.502	11.496	0.006	99	309396	4.00	4.00	
$ 6 o-Terphenyl	230	7.712	7.712	0.000	90	207489	2.00	1.48	

QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test

Reagents:

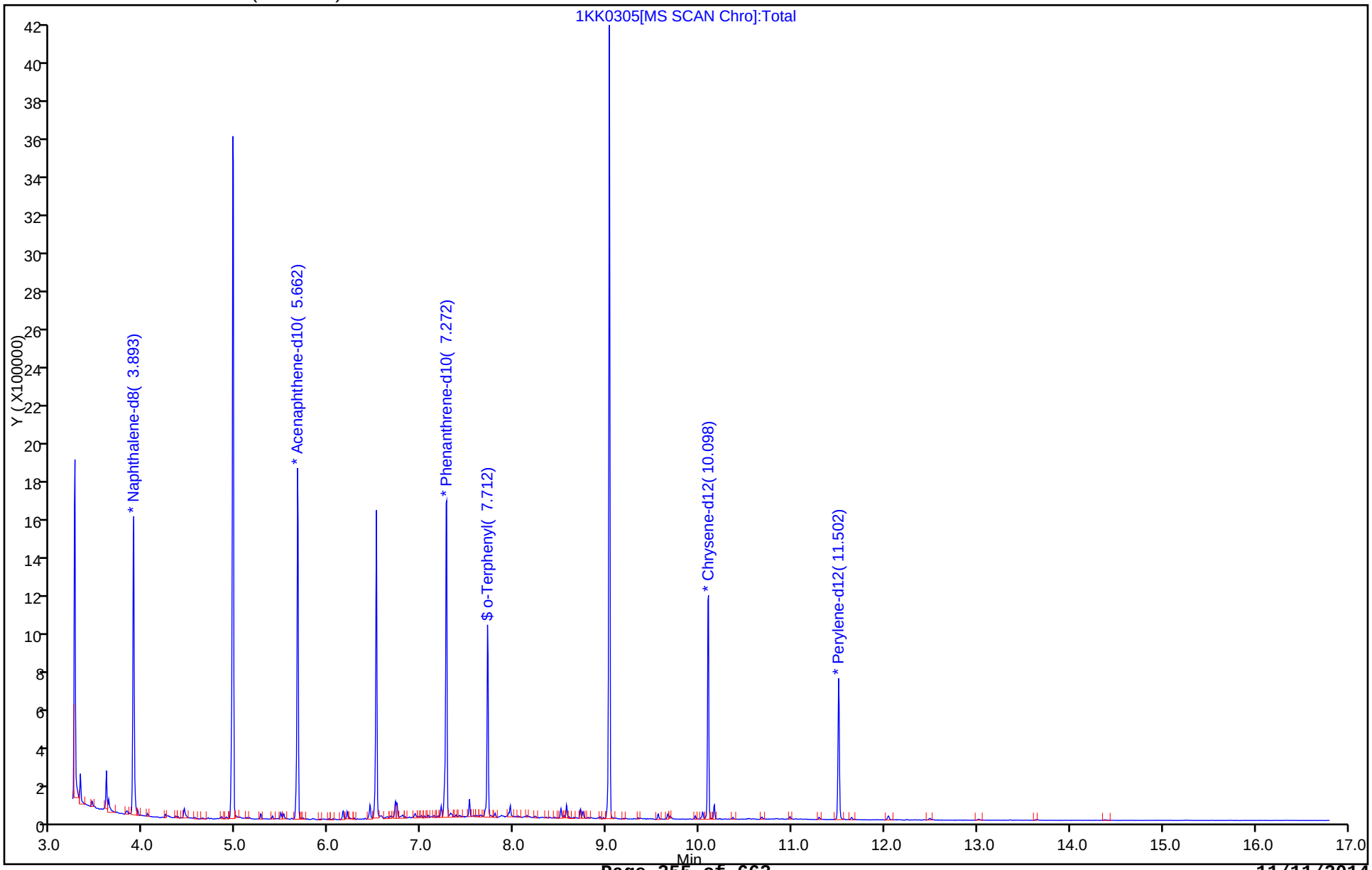
SM-LLISTD_00110 Amount Added: 20.00 Units: uL

Report Date: 04-Nov-2014 09:15:37 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0305.D				
Injection Date:	03-Nov-2014 11:52:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	MB 680-356398/21-A			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)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG No.: 680-106803-01
Client Sample ID:
Lab Sample ID: LCS 680-356398/22-A
Matrix: Solid
Lab File ID: 1KK0306.D
Analysis Method: 8270D_LL_PAH
Date Collected:
Extract. Method: 3546
Date Extracted: 10/31/2014 17:08
Sample wt/vol: 30.04(g)
Date Analyzed: 11/03/2014 12:14
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 356621
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	210		6.7	3.3
208-96-8	Acenaphthylene	206		6.7	3.3
120-12-7	Anthracene	218		6.7	3.3
56-55-3	Benzo[a]anthracene	226		6.7	3.3
50-32-8	Benzo[a]pyrene	219		6.7	1.2
205-99-2	Benzo[b]fluoranthene	223		6.7	3.3
191-24-2	Benzo[g,h,i]perylene	191		6.7	3.3
207-08-9	Benzo[k]fluoranthene	224		6.7	2.0
218-01-9	Chrysene	217		6.7	3.3
53-70-3	Dibenz(a,h)anthracene	209		6.7	3.3
206-44-0	Fluoranthene	207		6.7	3.3
86-73-7	Fluorene	232		6.7	3.3
193-39-5	Indeno[1,2,3-cd]pyrene	189		6.7	3.3
90-12-0	1-Methylnaphthalene	223		6.7	3.1
91-57-6	2-Methylnaphthalene	216		6.7	3.3
91-20-3	Naphthalene	204		6.7	3.3
85-01-8	Phenanthrene	205		6.7	2.4
129-00-0	Pyrene	206		6.7	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	61		36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0306.D
Lims ID: LCS 680-356398/22-A
Client ID:
Sample Type: LCS
Inject. Date: 03-Nov-2014 12:14:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 680-356398/22-A
Misc. Info.: 680-0014354-006
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 04-Nov-2014 09:15:09 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 03-Nov-2014 12:44:50

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	3.893	3.893	0.000	99	808043	4.00	4.00	s
* 2 Acenaphthene-d10	164	5.668	5.662	0.006	91	470519	4.00	4.00	s
* 3 Phenanthrene-d10	188	7.272	7.266	0.006	98	736855	4.00	4.00	s
* 4 Chrysene-d12	240	10.098	10.092	0.006	99	511062	4.00	4.00	s
* 5 Perylene-d12	264	11.496	11.496	0.000	99	409804	4.00	4.00	s
$ 6 o-Terphenyl	230	7.712	7.712	0.000	89	193863	2.00	1.22	
7 Naphthalene	128	3.911	3.911	0.000	99	1370345	10.0	6.14	
9 2-Methylnaphthalene	142	4.586	4.586	0.000	85	896135	10.0	6.49	
8 1-Methylnaphthalene	142	4.686	4.680	0.006	93	874769	10.0	6.69	
11 Acenaphthylene	152	5.515	5.509	0.006	98	1371933	10.0	6.19	
12 Acenaphthene	153	5.703	5.697	0.006	95	962411	10.0	6.32	
13 Dibenzofuran	168	5.885	5.879	0.006	99	1170217	NC	NC	
14 Fluorene	166	6.255	6.249	0.006	95	1006611	10.0	6.96	
15 Phenanthrene	178	7.295	7.289	0.006	97	1379217	10.0	6.15	
16 Anthracene	178	7.354	7.348	0.006	98	1382688	10.0	6.55	
17 Fluoranthene	202	8.594	8.594	0.000	98	1395931	10.0	6.22	
18 Pyrene	202	8.834	8.829	0.005	97	1417139	10.0	6.18	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	98	1034984	10.0	6.78	
20 Chrysene	228	10.121	10.115	0.006	98	940521	10.0	6.53	
21 Benzo[b]fluoranthene	252	11.114	11.114	0.000	98	888713	10.0	6.71	
22 Benzo[k]fluoranthene	252	11.144	11.138	0.006	98	924341	10.0	6.74	
23 Benzo[a]pyrene	252	11.437	11.437	0.000	97	760679	10.0	6.58	
24 Indeno[1,2,3-cd]pyrene	276	12.765	12.765	0.000	98	790824	10.0	5.68	
25 Dibenz(a,h)anthracene	278	12.795	12.795	0.000	95	674280	10.0	6.28	
26 Benzo[g,h,i]perylene	276	13.147	13.141	0.006	98	674196	10.0	5.74	

QC Flag Legend

Processing Flags

NC - Not Calibrated

s - Failed ISTD Recovery Test

Reagents:

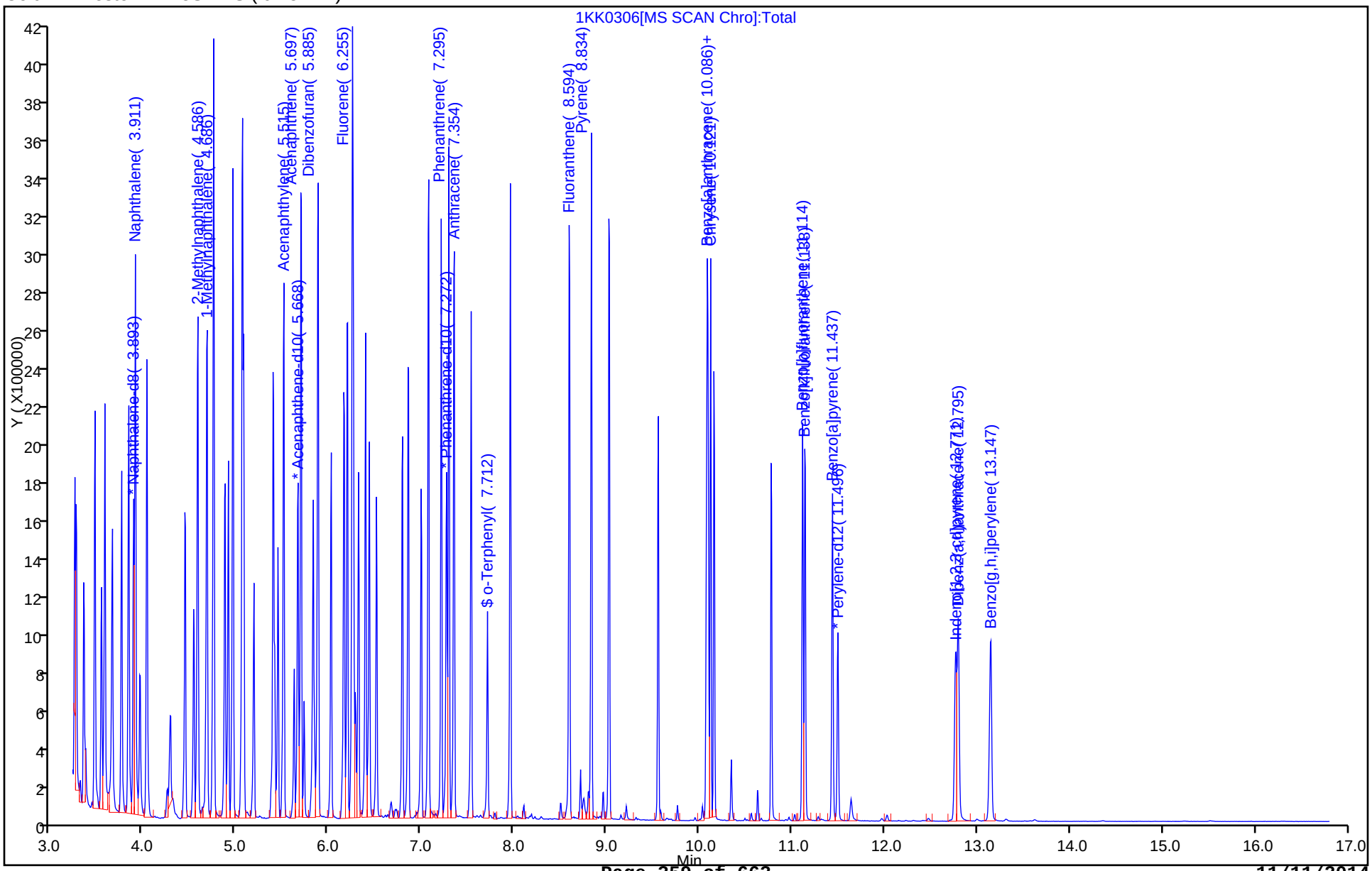
SM-LLISTD_00110 Amount Added: 20.00 Units: uL

Report Date: 04-Nov-2014 09:15:37 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0306.D				
Injection Date:	03-Nov-2014 12:14:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	LCS 680-356398/22-A			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)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971VV-CS12" MS | Lab Sample ID: 680-106803-2 MS

Matrix: Solid | Lab File ID: 1KK0307.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/27/2014 15:00

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.02(g) | Date Analyzed: 11/03/2014 12:37

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

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

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

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	184		78	39
208-96-8	Acenaphthylene	186		78	39
120-12-7	Anthracene	189		78	39
56-55-3	Benzo[a]anthracene	314		78	39
50-32-8	Benzo[a]pyrene	332		78	14
205-99-2	Benzo[b]fluoranthene	393		78	39
191-24-2	Benzo[g,h,i]perylene	255		78	39
207-08-9	Benzo[k]fluoranthene	295		78	23
218-01-9	Chrysene	361		78	39
53-70-3	Dibenz(a,h)anthracene	185		78	39
206-44-0	Fluoranthene	434		78	39
86-73-7	Fluorene	193		78	39
193-39-5	Indeno[1,2,3-cd]pyrene	237		78	39
90-12-0	1-Methylnaphthalene	212		78	36
91-57-6	2-Methylnaphthalene	207		78	39
91-20-3	Naphthalene	190		78	39
85-01-8	Phenanthrene	304		78	28
129-00-0	Pyrene	370		78	39

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\20141103-14354.b\1KK0307.D
Lims ID: 680-106803-B-2-B MS
Client ID: CV0971VV-CS12"
Sample Type: MS
Inject. Date: 03-Nov-2014 12:37:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 680-106803-B-2-B MS 1:10
Misc. Info.: 680-0014354-007
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 04-Nov-2014 10:32:58 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 03-Nov-2014 13:13:06

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	3.893	3.893	0.000	99	359115	0.2000	2.00	
* 2 Acenaphthene-d10	164	5.661	5.662	-0.001	91	206297	0.2000	2.00	
* 3 Phenanthrene-d10	188	7.266	7.266	0.000	98	303964	0.2000	2.00	
* 4 Chrysene-d12	240	10.092	10.092	0.000	99	229939	0.2000	2.00	
* 5 Perylene-d12	264	11.496	11.496	0.000	99	190037	0.2000	2.00	
7 Naphthalene	128	3.911	3.911	0.000	99	96407	1.00	0.4862	
9 2-Methylnaphthalene	142	4.586	4.586	0.000	86	64994	1.00	0.5296	
8 1-Methylnaphthalene	142	4.680	4.680	0.000	93	63197	1.00	0.5440	
11 Acenaphthylene	152	5.509	5.509	0.000	97	92826	1.00	0.4778	
12 Acenaphthene	153	5.697	5.697	0.000	95	62854	1.00	0.4704	
13 Dibenzofuran	168	5.879	5.879	0.000	99	77814	NC	NC	
14 Fluorene	166	6.249	6.249	0.000	94	62878	1.00	0.4956	
15 Phenanthrene	178	7.289	7.289	0.000	97	144436	1.00	0.7802	
16 Anthracene	178	7.348	7.348	0.000	98	84556	1.00	0.4856	
17 Fluoranthene	202	8.593	8.594	-0.001	98	206192	1.00	1.11	
18 Pyrene	202	8.828	8.829	-0.001	97	195928	1.00	0.9494	
19 Benzo[a]anthracene	228	10.080	10.080	0.000	97	110471	1.00	0.8046	
20 Chrysene	228	10.115	10.115	0.000	98	120017	1.00	0.9260	
21 Benzo[b]fluoranthene	252	11.114	11.114	0.000	98	123781	1.00	1.01	
22 Benzo[k]fluoranthene	252	11.138	11.138	0.000	98	96132	1.00	0.7557	
23 Benzo[a]pyrene	252	11.437	11.437	0.000	97	91201	1.00	0.8502	
24 Indeno[1,2,3-cd]pyrene	276	12.765	12.765	0.000	98	76203	1.00	0.6080	
25 Dibenz(a,h)anthracene	278	12.794	12.795	-0.001	96	47177	1.00	0.4738	
26 Benzo[g,h,i]perylene	276	13.141	13.141	0.000	98	71277	1.00	0.6547	
29 4,4'-DDT	235	7.072	6.837	0.235	63	338		NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

7 - Failed Limit of Detection

Reagents:

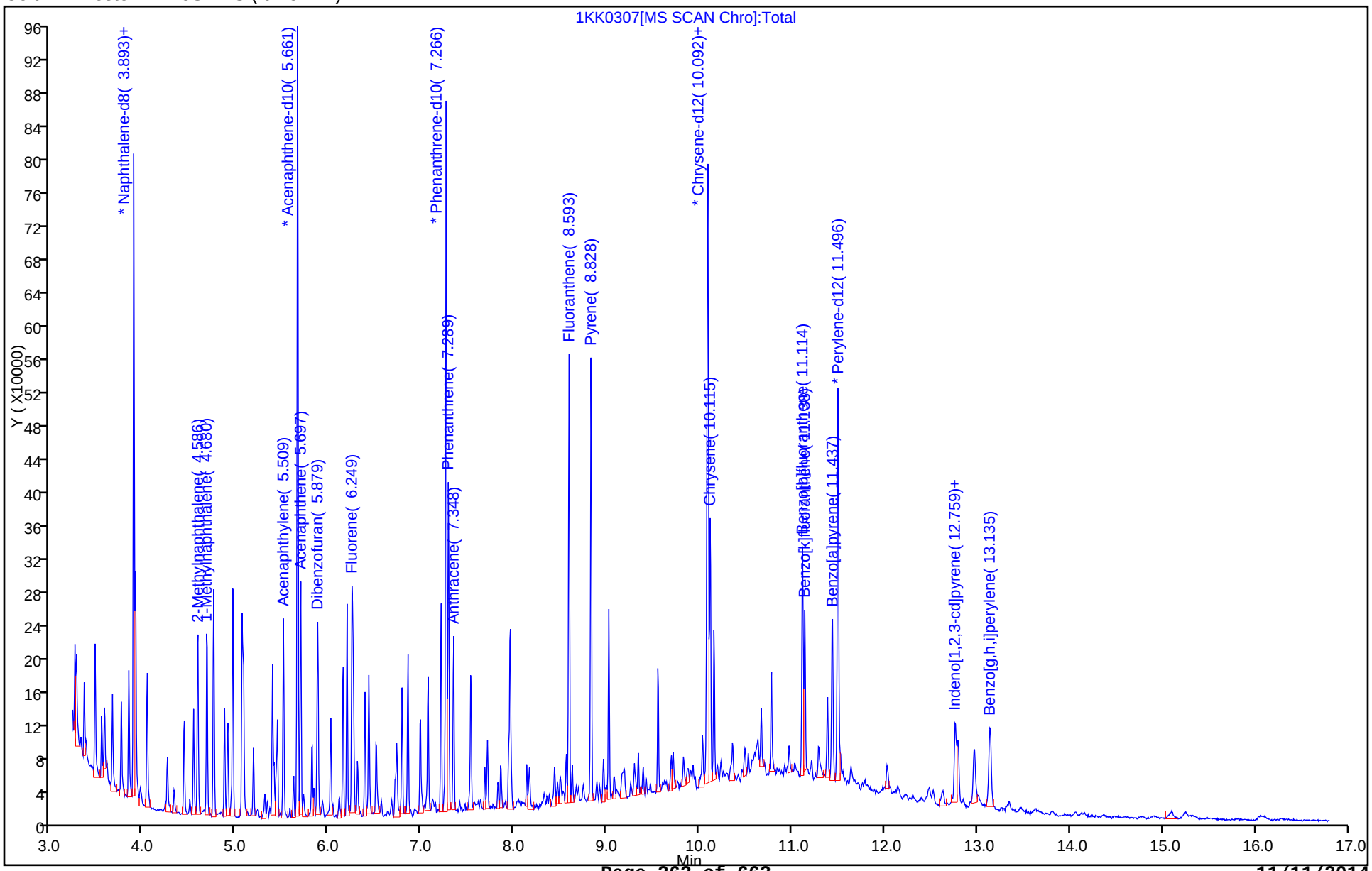
SM-LLISTD_00110	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 04-Nov-2014 10:34:31 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0307.D				
Injection Date:	03-Nov-2014 12:37:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-2-B MS			Worklist Smp#:	7
Client ID:	CV0971VV-CS12"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	7
Method:	8270_LLPAH_CMSK	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.: 680-106803-1

SDG No.: 680-106803-01

Client Sample ID: CV0971VV-CS12" MSD | Lab Sample ID: 680-106803-2 MSD

Matrix: Solid | Lab File ID: 1KK0308.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/27/2014 15:00

Extract. Method: 3546 | Date Extracted: 10/31/2014 17:08

Sample wt/vol: 30.02(g) | Date Analyzed: 11/03/2014 13:00

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

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

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

Analysis Batch No.: 356621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	246		78	39
208-96-8	Acenaphthylene	237		78	39
120-12-7	Anthracene	259		78	39
56-55-3	Benzo[a]anthracene	403		78	39
50-32-8	Benzo[a]pyrene	406		78	14
205-99-2	Benzo[b]fluoranthene	468		78	39
191-24-2	Benzo[g,h,i]perylene	259		78	39
207-08-9	Benzo[k]fluoranthene	377		78	23
218-01-9	Chrysene	462		78	39
53-70-3	Dibenz(a,h)anthracene	225		78	39
206-44-0	Fluoranthene	558		78	39
86-73-7	Fluorene	261		78	39
193-39-5	Indeno[1,2,3-cd]pyrene	282		78	39
90-12-0	1-Methylnaphthalene	276		78	36
91-57-6	2-Methylnaphthalene	273		78	39
91-20-3	Naphthalene	242		78	39
85-01-8	Phenanthrene	425		78	28
129-00-0	Pyrene	462		78	39

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\20141103-14354.b\1KK0308.D
Lims ID: 680-106803-B-2-C MSD
Client ID: CV0971VV-CS12"
Sample Type: MSD
Inject. Date: 03-Nov-2014 13:00:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 680-106803-B-2-C MSD 1:10
Misc. Info.: 680-0014354-008
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141103-14354.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 04-Nov-2014 10:32:58 Calib Date: 22-Oct-2014 16:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141022-13989.b\1KJ2209.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 04-Nov-2014 10:34:21

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	3.893	3.893	0.000	99	398568	0.2000	2.00	
* 2 Acenaphthene-d10	164	5.662	5.662	0.000	92	231400	0.2000	2.00	
* 3 Phenanthrene-d10	188	7.266	7.266	0.000	98	340063	0.2000	2.00	
* 4 Chrysene-d12	240	10.092	10.092	0.000	99	255344	0.2000	2.00	
* 5 Perylene-d12	264	11.496	11.496	0.000	99	220161	0.2000	2.00	
7 Naphthalene	128	3.911	3.911	0.000	99	136401	1.00	0.6198	
9 2-Methylnaphthalene	142	4.586	4.586	0.000	86	95401	1.00	0.7004	
8 1-Methylnaphthalene	142	4.686	4.680	0.006	93	91242	1.00	0.7077	
11 Acenaphthylene	152	5.509	5.509	0.000	97	132540	1.00	0.6083	
12 Acenaphthene	153	5.697	5.697	0.000	95	94547	1.00	0.6309	
13 Dibenzofuran	168	5.885	5.879	0.006	99	115993	NC	NC	
14 Fluorene	166	6.249	6.249	0.000	95	95298	1.00	0.6697	
15 Phenanthrene	178	7.295	7.289	0.006	97	225671	1.00	1.09	
16 Anthracene	178	7.348	7.348	0.000	99	129302	1.00	0.6638	
17 Fluoranthene	202	8.593	8.594	-0.001	98	296784	1.00	1.43	
18 Pyrene	202	8.834	8.829	0.005	97	271238	1.00	1.18	
19 Benzo[a]anthracene	228	10.086	10.080	0.006	97	157555	1.00	1.03	
20 Chrysene	228	10.121	10.115	0.006	98	170306	1.00	1.18	
21 Benzo[b]fluoranthene	252	11.114	11.114	0.000	98	170893	1.00	1.20	
22 Benzo[k]fluoranthene	252	11.138	11.138	0.000	98	142289	1.00	0.9655	
23 Benzo[a]pyrene	252	11.437	11.437	0.000	97	129246	1.00	1.04	
24 Indeno[1,2,3-cd]pyrene	276	12.765	12.765	0.000	99	100495	1.00	0.7220	
25 Dibenz(a,h)anthracene	278	12.794	12.795	-0.001	95	66533	1.00	0.5768	
26 Benzo[g,h,i]perylene	276	13.135	13.141	-0.006	98	83725	1.00	0.6638	
28 4,4'-DDD	235	6.854	6.608	0.246	1	140		NR	7
29 4,4'-DDT	235	7.072	6.837	0.235	63	618		NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

7 - Failed Limit of Detection

Reagents:

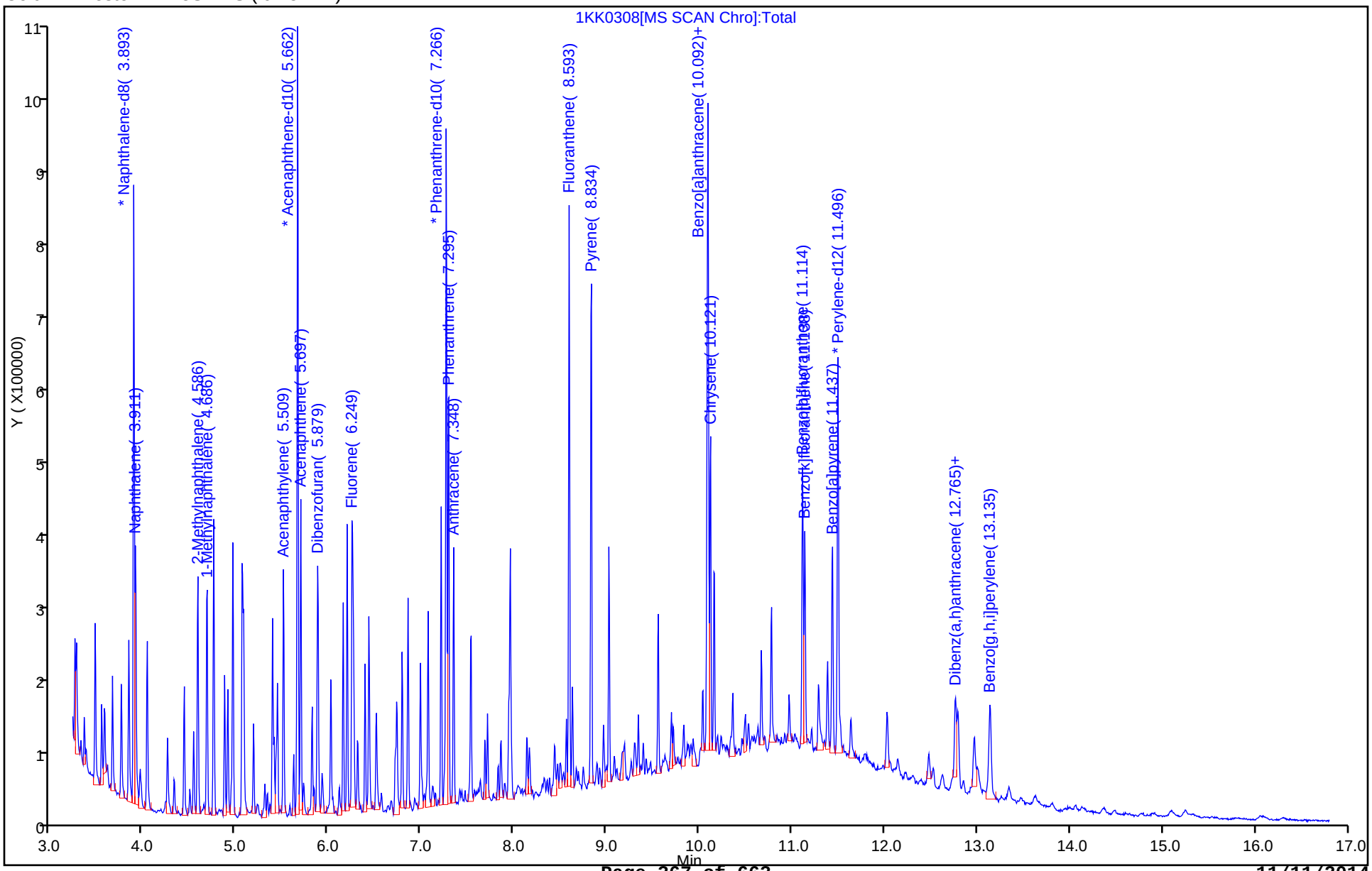
SM-LLISTD_00110	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 04-Nov-2014 10:34:32 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141103-14354.b\1KK0308.D				
Injection Date:	03-Nov-2014 13:00:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-106803-B-2-C MSD			Worklist Smp#:	8
Client ID:	CV0971VV-CS12"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	8
Method:	8270_LLPAH_CMSK	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.: 680-106803-1

SDG No.: 680-106803-01

Instrument ID: CMSK Start Date: 10/22/2014 13:45

Analysis Batch Number: 354813 End Date: 10/23/2014 00:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 680-354813/2		10/22/2014 13:45	1	1KJ2202.D	RXi- 5Sil MS 0.25(mm)
ICIS 680-354813/3		10/22/2014 13:59	1	1KJ2203.D	RXi- 5Sil MS 0.25(mm)
IC 680-354813/4		10/22/2014 14:22	1	1KJ2204.D	RXi- 5Sil MS 0.25(mm)
IC 680-354813/5		10/22/2014 14:45	1	1KJ2205.D	RXi- 5Sil MS 0.25(mm)
IC 680-354813/6		10/22/2014 15:08	1	1KJ2206.D	RXi- 5Sil MS 0.25(mm)
IC 680-354813/7		10/22/2014 15:31	1	1KJ2207.D	RXi- 5Sil MS 0.25(mm)
IC 680-354813/8		10/22/2014 15:54	1	1KJ2208.D	RXi- 5Sil MS 0.25(mm)
IC 680-354813/9		10/22/2014 16:17	1	1KJ2209.D	RXi- 5Sil MS 0.25(mm)
ICV 680-354813/10		10/22/2014 16:40	1	1KJ2210.D	RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 17:03	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 17:26	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 17:49	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 18:11	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 18:34	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 18:57	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 19:20	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 19:43	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 20:06	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 20:28	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 20:51	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 21:14	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 21:37	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 22:00	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 22:23	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 22:46	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 23:08	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 23:31	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/22/2014 23:54	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		10/23/2014 00:17	1		RXi- 5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Instrument ID: CMSK Start Date: 11/03/2014 10:18

Analysis Batch Number: 356621 End Date: 11/03/2014 20:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 680-356621/1		11/03/2014 10:18	1	1KK0301.D	RXi- 5Sil MS 0.25(mm)
CCVIS 680-356621/2		11/03/2014 10:32	1	1KK0302.D	RXi- 5Sil MS 0.25(mm)
RL 680-356621/3		11/03/2014 11:00	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/03/2014 11:23	1		RXi- 5Sil MS 0.25(mm)
MB 680-356398/21-A		11/03/2014 11:52	1	1KK0305.D	RXi- 5Sil MS 0.25(mm)
LCS 680-356398/22-A		11/03/2014 12:14	1	1KK0306.D	RXi- 5Sil MS 0.25(mm)
680-106803-2 MS	CV0971VV-CS12" MS	11/03/2014 12:37	10	1KK0307.D	RXi- 5Sil MS 0.25(mm)
680-106803-2 MSD	CV0971VV-CS12" MSD	11/03/2014 13:00	10	1KK0308.D	RXi- 5Sil MS 0.25(mm)
680-106803-2	CV0971VV-CS12"	11/03/2014 13:23	10	1KK0309.D	RXi- 5Sil MS 0.25(mm)
680-106803-1	CV0971VV-CS6"	11/03/2014 13:46	10	1KK0310.D	RXi- 5Sil MS 0.25(mm)
680-106803-3	CV0971VV-CS18"	11/03/2014 14:09	10	1KK0311.D	RXi- 5Sil MS 0.25(mm)
680-106803-4	CV0971VV-CS24"	11/03/2014 14:31	10	1KK0312.D	RXi- 5Sil MS 0.25(mm)
680-106803-5	CV0971JJ-CS6"	11/03/2014 14:54	1	1KK0313.D	RXi- 5Sil MS 0.25(mm)
680-106803-6	CV0971JJ-CSD6"	11/03/2014 15:17	1	1KK0314.D	RXi- 5Sil MS 0.25(mm)
680-106803-7	CV0971JJ-CS12"	11/03/2014 15:40	10	1KK0315.D	RXi- 5Sil MS 0.25(mm)
680-106803-8	CV0971JJ-CS18"	11/03/2014 16:03	10	1KK0316.D	RXi- 5Sil MS 0.25(mm)
680-106803-9	CV0971JJ-CS24"	11/03/2014 16:25	1	1KK0317.D	RXi- 5Sil MS 0.25(mm)
680-106803-10	CV0971NN-CS6"	11/03/2014 16:48	10	1KK0318.D	RXi- 5Sil MS 0.25(mm)
680-106803-11	CV0971NN-CS12"	11/03/2014 17:11	10	1KK0319.D	RXi- 5Sil MS 0.25(mm)
680-106803-12	CV0971NN-CSD12"	11/03/2014 17:34	10	1KK0320.D	RXi- 5Sil MS 0.25(mm)
680-106803-13	CV0971NN-CS18"	11/03/2014 17:56	10	1KK0321.D	RXi- 5Sil MS 0.25(mm)
680-106803-14	CV0971NN-CS24"	11/03/2014 18:19	10	1KK0322.D	RXi- 5Sil MS 0.25(mm)
680-106803-15	CV0971AP-GS6"	11/03/2014 18:42	10	1KK0323.D	RXi- 5Sil MS 0.25(mm)
680-106803-16	CV0971AP-GS12"	11/03/2014 19:05	10	1KK0324.D	RXi- 5Sil MS 0.25(mm)
680-106803-17	CV0971AP-GS18"	11/03/2014 19:27	10	1KK0325.D	RXi- 5Sil MS 0.25(mm)
680-106803-18	CV0971AP-GS24"	11/03/2014 19:50	10	1KK0326.D	RXi- 5Sil MS 0.25(mm)
680-106803-19	CV0971AD-GS6"	11/03/2014 20:13	1	1KK0327.D	RXi- 5Sil MS 0.25(mm)
680-106803-20	CV0971AD-GS12"	11/03/2014 20:36	1	1KK0328.D	RXi- 5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Batch Number: 356398 Batch Start Date: 10/31/14 17:08 Batch Analyst: Kicklighter, Jasmine M

Batch Method: 3546 Batch End Date: 10/31/14 17:38

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX8270SPKL1 00016	LLBNAwkSUR 00079	LLBNAwkSUR 00080	AnalysisComment
680-106803-B-1	CV0971VV-CS6"	3546, 8270D_LL_PAH	T	30.05 g	1 mL		1 mL		
680-106803-B-2	CV0971VV-CS12"	3546, 8270D_LL_PAH	T	30.02 g	1 mL		1 mL		
680-106803-B-3	CV0971VV-CS18"	3546, 8270D_LL_PAH	T	30.05 g	1 mL		1 mL		
680-106803-B-4	CV0971VV-CS24"	3546, 8270D_LL_PAH	T	30.02 g	1 mL		1 mL		
680-106803-B-5	CV0971JJ-CS6"	3546, 8270D_LL_PAH	T	30.02 g	1 mL		1 mL		
680-106803-B-6	CV0971JJ-CSD6"	3546, 8270D_LL_PAH	T	30.05 g	1 mL		1 mL		
680-106803-B-7	CV0971JJ-CS12"	3546, 8270D_LL_PAH	T	30.02 g	1 mL		1 mL		
680-106803-B-8	CV0971JJ-CS18"	3546, 8270D_LL_PAH	T	30.01 g	1 mL		1 mL		
680-106803-B-9	CV0971JJ-CS24"	3546, 8270D_LL_PAH	T	30.01 g	1 mL		1 mL		
680-106803-B-10	CV0971NN-CS6"	3546, 8270D_LL_PAH	T	30.02 g	1 mL		1 mL		
680-106803-B-11	CV0971NN-CS12"	3546, 8270D_LL_PAH	T	30.01 g	1 mL		1 mL		
680-106803-B-12	CV0971NN-CSD12"	3546, 8270D_LL_PAH	T	30.04 g	1 mL		1 mL		
680-106803-B-13	CV0971NN-CS18"	3546, 8270D_LL_PAH	T	30.03 g	1 mL		1 mL		
680-106803-B-14	CV0971NN-CS24"	3546, 8270D_LL_PAH	T	30.03 g	1 mL		1 mL		
680-106803-B-15	CV0971AP-GS6"	3546, 8270D_LL_PAH	T	30.01 g	1 mL		1 mL		
680-106803-B-16	CV0971AP-GS12"	3546, 8270D_LL_PAH	T	30.01 g	1 mL		1 mL		
680-106803-B-17	CV0971AP-GS18"	3546, 8270D_LL_PAH	T	30.01 g	1 mL		1 mL		
680-106803-B-18	CV0971AP-GS24"	3546, 8270D_LL_PAH	T	30.01 g	1 mL		1 mL		
680-106803-B-19	CV0971AD-GS6"	3546, 8270D_LL_PAH	T	30.05 g	1 mL			1 mL	
680-106803-B-20	CV0971AD-GS12"	3546, 8270D_LL_PAH	T	30.04 g	1 mL			1 mL	
MB 680-356398/21		3546, 8270D_LL_PAH		30.04 g	1 mL			1 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Batch Number: 356398 Batch Start Date: 10/31/14 17:08 Batch Analyst: Kicklighter, Jasmine M

Batch Method: 3546 Batch End Date: 10/31/14 17:38

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX8270SPKL1 00016	LLBNAwkSUR 00079	LLBNAwkSUR 00080	AnalysisComment
LCS 680-356398/22		3546, 8270D_LL_PAH		30.04 g	1 mL	100 uL		1 mL	8270LL SPIKE
680-106803-B-2 MS	CV0971VV-CS12"	3546, 8270D_LL_PAH	T	30.02 g	1 mL	100 uL		1 mL	8270LL SPIKE
680-106803-B-2 MSD	CV0971VV-CS12"	3546, 8270D_LL_PAH	T	30.02 g	1 mL	100 uL		1 mL	8270LL SPIKE

Batch Notes	
Balance ID	30
Batch Comment	8270_LL BOX LL216
Concentration End Time	1936
Concentration Start Time	1814
Person's name who did the concentration	JMK
Exchange Solvent Lot #	3824412
Exchange Solvent Name	MECL2
Filter Paper Lot Number	09-795G
Final Concentrator Volume	1 mL
MeCl2/Acetone Lot #	3787739
Microwave Oven ID	1
Microwave Start Time	1708
Microwave Stop Time	1738
Na2SO4 Lot Number	3817194
Ottawa Sand Lot #	3812076
Person's name who did the prep	JMK
Person who performed Spike	JMK
Person who witnessed spiking	JV

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: 680-106803-1

SDG No.: 680-106803-01

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0971VV-CS6"	680-106803-1
CV0971VV-CS12"	680-106803-2
CV0971VV-CS18"	680-106803-3
CV0971VV-CS24"	680-106803-4
CV0971JJ-CS6"	680-106803-5
CV0971JJ-CSD6"	680-106803-6
CV0971JJ-CS12"	680-106803-7
CV0971JJ-CS18"	680-106803-8
CV0971JJ-CS24"	680-106803-9
CV0971NN-CS6"	680-106803-10
CV0971NN-CS12"	680-106803-11
CV0971NN-CSD12"	680-106803-12
CV0971NN-CS18"	680-106803-13
CV0971NN-CS24"	680-106803-14
CV0971AP-GS6"	680-106803-15
CV0971AP-GS12"	680-106803-16
CV0971AP-GS18"	680-106803-17
CV0971AP-GS24"	680-106803-18
CV0971AD-GS6"	680-106803-19
CV0971AD-GS12"	680-106803-20

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971VV-CS6"

Lab Sample ID: 680-106803-1

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/27/2014 14:45

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 86.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	17000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	34	2.2	0.64	mg/Kg			1	6010C
7439-89-6	Iron	39000	22	7.6	mg/Kg			1	6010C
7439-92-1	Lead	190	1.1	0.57	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971VV-CS12"

Lab Sample ID: 680-106803-2

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/27/2014 15:00

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 85.4

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	37	2.3	0.66	mg/Kg			1	6010C
7439-89-6	Iron	46000	23	7.9	mg/Kg			1	6010C
7439-92-1	Lead	110	1.1	0.60	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971VV-CS18"

Lab Sample ID: 680-106803-3

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/27/2014 15:15

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 85.5

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	33	2.3	0.67	mg/Kg			1	6010C
7439-89-6	Iron	38000	23	8.0	mg/Kg			1	6010C
7439-92-1	Lead	130	1.1	0.60	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971VV-CS24"

Lab Sample ID: 680-106803-4

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/27/2014 15:30

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 82.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	14000	24	12	mg/Kg			1	6010C
7440-38-2	Arsenic	25	2.4	0.71	mg/Kg			1	6010C
7439-89-6	Iron	46000	24	8.4	mg/Kg			1	6010C
7439-92-1	Lead	96	1.2	0.64	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971JJ-CS6"

Lab Sample ID: 680-106803-5

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/28/2014 08:40

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 89.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	14000	21	11	mg/Kg			1	6010C
7440-38-2	Arsenic	31	2.1	0.63	mg/Kg			1	6010C
7439-89-6	Iron	49000	21	7.5	mg/Kg			1	6010C
7439-92-1	Lead	47	1.1	0.57	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971JJ-CSD6"

Lab Sample ID: 680-106803-6

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/28/2014 08:45

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 85.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	15000	21	11	mg/Kg			1	6010C
7440-38-2	Arsenic	35	2.1	0.63	mg/Kg			1	6010C
7439-89-6	Iron	55000	21	7.5	mg/Kg			1	6010C
7439-92-1	Lead	45	1.1	0.56	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971JJ-CS12"

Lab Sample ID: 680-106803-7

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/28/2014 08:55

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 87.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	12000	20	10	mg/Kg			1	6010C
7440-38-2	Arsenic	26	2.0	0.60	mg/Kg			1	6010C
7439-89-6	Iron	41000	20	7.1	mg/Kg			1	6010C
7439-92-1	Lead	40	1.0	0.54	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971JJ-CS18"

Lab Sample ID: 680-106803-8

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/28/2014 09:10

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 86.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	13000	20	9.8	mg/Kg			1	6010C
7440-38-2	Arsenic	31	2.0	0.58	mg/Kg			1	6010C
7439-89-6	Iron	35000	20	6.9	mg/Kg			1	6010C
7439-92-1	Lead	54	0.98	0.52	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971JJ-CS24"

Lab Sample ID: 680-106803-9

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/28/2014 09:25

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 84.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	12000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	23	2.2	0.66	mg/Kg			1	6010C
7439-89-6	Iron	33000	22	7.8	mg/Kg			1	6010C
7439-92-1	Lead	44	1.1	0.59	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971NN-CS6"

Lab Sample ID: 680-106803-10

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/28/2014 10:15

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 86.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	15000	21	10	mg/Kg			1	6010C
7440-38-2	Arsenic	26	2.1	0.61	mg/Kg			1	6010C
7439-89-6	Iron	40000	21	7.2	mg/Kg			1	6010C
7439-92-1	Lead	180	1.0	0.55	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971NN-CS12"

Lab Sample ID: 680-106803-11

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/28/2014 10:30

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 85.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	15000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	20	2.2	0.64	mg/Kg			1	6010C
7439-89-6	Iron	48000	22	7.5	mg/Kg			1	6010C
7439-92-1	Lead	120	1.1	0.57	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971NN-CSD12"

Lab Sample ID: 680-106803-12

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/28/2014 10:35

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 85.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	14000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	25	2.2	0.65	mg/Kg			1	6010C
7439-89-6	Iron	43000	22	7.7	mg/Kg			1	6010C
7439-92-1	Lead	220	1.1	0.58	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971NN-CS18"

Lab Sample ID: 680-106803-13

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/28/2014 10:45

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 84.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	22000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	13	2.2	0.64	mg/Kg			1	6010C
7439-89-6	Iron	39000	22	7.6	mg/Kg			1	6010C
7439-92-1	Lead	37	1.1	0.58	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971NN-CS24"
Lab Sample ID: 680-106803-14
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/28/2014 11:00
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 85.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	19000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	20	2.2	0.65	mg/Kg			1	6010C
7439-89-6	Iron	45000	22	7.7	mg/Kg			1	6010C
7439-92-1	Lead	55	1.1	0.58	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971AP-GS6"

Lab Sample ID: 680-106803-15

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/28/2014 11:20

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 84.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	19000	23	12	mg/Kg			1	6010C
7440-38-2	Arsenic	32	2.3	0.68	mg/Kg			1	6010C
7439-89-6	Iron	52000	23	8.1	mg/Kg			1	6010C
7439-92-1	Lead	580	1.2	0.61	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971AP-GS12"

Lab Sample ID: 680-106803-16

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/28/2014 11:35

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 80.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	17000	24	12	mg/Kg			1	6010C
7440-38-2	Arsenic	36	2.4	0.70	mg/Kg			1	6010C
7439-89-6	Iron	44000	24	8.3	mg/Kg			1	6010C
7439-92-1	Lead	380	1.2	0.63	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971AP-GS18"
Lab Sample ID: 680-106803-17
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG ID.: 680-106803-01
Matrix: Solid
Date Sampled: 10/28/2014 11:50
Reporting Basis: DRY
Date Received: 10/31/2014 09:34
% Solids: 85.1

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	15	2.1	0.61	mg/Kg			1	6010C
7439-89-6	Iron	31000	21	7.3	mg/Kg			1	6010C
7439-92-1	Lead	48	1.0	0.55	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971AP-GS24"

Lab Sample ID: 680-106803-18

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/28/2014 12:05

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 84.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	17000	20	10	mg/Kg			1	6010C
7440-38-2	Arsenic	24	2.0	0.59	mg/Kg			1	6010C
7439-89-6	Iron	60000	20	7.0	mg/Kg			1	6010C
7439-92-1	Lead	53	1.0	0.53	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971AD-GS6"

Lab Sample ID: 680-106803-19

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/28/2014 12:50

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 81.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	18000	24	12	mg/Kg			1	6010C
7440-38-2	Arsenic	47	2.4	0.72	mg/Kg			1	6010C
7439-89-6	Iron	47000	24	8.5	mg/Kg			1	6010C
7439-92-1	Lead	43	1.2	0.64	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971AD-GS12"

Lab Sample ID: 680-106803-20

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG ID.: 680-106803-01

Matrix: Solid

Date Sampled: 10/28/2014 13:00

Reporting Basis: DRY

Date Received: 10/31/2014 09:34

% Solids: 81.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	16000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	45	2.2	0.65	mg/Kg			1	6010C
7439-89-6	Iron	46000	22	7.7	mg/Kg			1	6010C
7439-92-1	Lead	32	1.1	0.58	mg/Kg			1	6010C

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

ICV Source: P_ICV_wk_00229 Concentration Units: ug/L

CCV Source: P_CCV_wk_00128

Analyte	ICV 680-357015/6 11/04/2014 17:43				CCV 680-357015/99 11/05/2014 00:30				CCV 680-357015/111 11/05/2014 01:21			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	989		1000	99	4840		5000	97	4850		5000	97
Arsenic	968		1000	97	489		500	98	487		500	97
Iron	992		1000	99	4910		5000	98	4930		5000	99
Lead	1020		1000	102	499		500	100	501		500	100

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.: 680-106803-1

SDG No.: 680-106803-01

ICV Source: P_ICV_wk_00229 Concentration Units: ug/L

CCV Source: P_CCV_wk_00128

Analyte	CCV 680-357015/123 11/05/2014 02:13				CCV 680-357015/135 11/05/2014 03:04							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	4870		5000	97	4910		5000	98				
Arsenic	498		500	100	489		500	98				
Iron	4960		5000	99	4960		5000	99				
Lead	504		500	101	509		500	102				

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.: 680-106803-1

SDG No.: 680-106803-01

Method: 6010C Instrument ID: ICPE

Lab Sample ID: CRI 680-357015/9 Concentration Units: ug/L

CRQL Check Standard Source: P_RL_Int_00036

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	200	193	J	96	70-130
Arsenic	20.0	19.1	J	96	70-130
Iron	50.0	200	U	101	70-130
Lead	10.0	9.89	J	99	70-130

Lab Sample ID: CRI 680-357015/204 Concentration Units: ug/L

CRQL Check Standard Source: P_RL_Int_00036

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	200	195	J	97	70-130
Arsenic	20.0	17.7	J	88	70-130
Iron	50.0	200	U	105	70-130
Lead	10.0	11.1		111	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.: 680-106803-1

SDG No.: 680-106803-01

Concentration Units: ug/L

Analyte	RL	ICBIS 680-357015/7 11/04/2014 17:47		CCB 680-357015/100 11/05/2014 00:34		CCB 680-357015/112 11/05/2014 01:25		CCB 680-357015/124 11/05/2014 02:17	
		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.: 680-106803-1

SDG No.: 680-106803-01

Concentration Units: ug/L

Analyte	RL	CCB 680-357015/136 11/05/2014 03:08							
		Found	C	Found	C	Found	C	Found	C
Aluminum	200	200	U						
Arsenic	20	20	U						
Iron	200	200	U						
Lead	10	10	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Concentration Units: mg/Kg Lab Sample ID: MB 680-356607/1-A

Instrument Code: ICPE Batch No.: 357015

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.: 680-106803-1

SDG No.: 680-106803-01

Lab Sample ID: ICSA 680-357015/10 Instrument ID: ICPE

Lab File ID: E11042014F.csv ICS Source: P_ICSA_wk_00038

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500000**	**542978**	**109**
Arsenic		**-7.48**	
Iron	**200000**	**190300**	**95**
Lead		**-0.643**	
Antimony		*1.30*	
Barium		*1.94*	
Beryllium		*-0.172*	
Boron		*-1.70*	
Cadmium		*4.43*	
Calcium	*500000*	*506306*	*101*
Chromium		*0.493*	
Cobalt		*-1.27*	
Copper		*1.61*	
Magnesium	*500000*	*518349*	*104*
Manganese		*3.09*	
Molybdenum		*1.68*	
Nickel		*0.246*	
Potassium		*9.21*	
Selenium		*-1.23*	
Silver		*-0.0553*	
Sodium		*-164*	
Strontium		*4.42*	
Thallium		*-5.07*	
Tin		*-6.27*	
Titanium		*0.854*	
Vanadium		*-4.97*	
Zinc		*12.3*	

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.: 680-106803-1

SDG No.: 680-106803-01

Lab Sample ID: ICSAB 680-357015/11 Instrument ID: ICPE

Lab File ID: E11042014F.csv ICS Source: P_ICSAB_wk_00053

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500000**	**556093**	**111**
Arsenic	**100**	**102**	**102**
Iron	**200000**	**194155**	**97**
Lead	**50.0**	**51.0**	**102**
Antimony	*600*	*638*	*106*
Barium	*500*	*515*	*103*
Beryllium	*500*	*491*	*98*
Boron		*-5.84*	
Cadmium	*1000*	*955*	*96*
Calcium	*500000*	*512270*	*102*
Chromium	*500*	*508*	*102*
Cobalt	*500*	*483*	*97*
Copper	*500*	*589*	*118*
Magnesium	*500000*	*529368*	*106*
Manganese	*500*	*518*	*104*
Molybdenum	*1000*	*1013*	*101*
Nickel	*1000*	*932*	*93*
Potassium		*11.6*	
Selenium	*50.0*	*58.2*	*116*
Silver	*200*	*232*	*116*
Sodium		*-236*	
Strontium		*-9.01*	
Thallium	*100*	*86.4*	*86*
Tin	*1000*	*1012*	*101*
Titanium		*2.28*	
Vanadium	*500*	*493*	*99*
Zinc	*1000*	*940*	*94*

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: CV0971VV-CS12" MS
Lab ID: 680-106803-2 MS
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG No.: 680-106803-01
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 85.4

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	15000		15000		552	-4	75-125	4	6010C
Arsenic	41.2		37		11.0	38	75-125	F1	6010C
Iron	35200		46000		552	-1934	75-125	4	6010C
Lead	143		110		55.2	69	75-125	F1	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: CV0971VV-CS12" MSD

Lab ID: 680-106803-2 MSD

Lab Name: TestAmerica Savannah

Job No.: 680-106803-1

SDG No.: 680-106803-01

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 85.4

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	17300		558	409	75-125	14	20	4	6010C
Arsenic	44.0		11.2	63	75-125	7	20	F1	6010C
Iron	38000		558	-1427	75-125	7	20	4	6010C
Lead	197		55.8	164	75-125	32	20	F1 F2	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: CV0971VV-CS12" PDS
Lab ID: 680-106803-2 PDS
Lab Name: TestAmerica Savannah
Job No.: 680-106803-1
SDG No.: 680-106803-01
Matrix: Solid
Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	15200		15000		113	NC	80-120		6010C
Arsenic	46.8		37		11.3	88	80-120		6010C
Iron	46800		46000		1130	NC	80-120		6010C
Lead	115		110		11.3	86	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 680-356607/2-A

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

Sample Matrix: Solid LCS Source: MS_LCS1_WK_00014

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	485	486		100	80	120		6010C
Arsenic	9.71	10.1		104	80	120		6010C
Iron	485	498		103	80	120		6010C
Lead	48.5	50.2		103	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: 680-106803-2

SDG No: 680-106803-01

Lab Name: TestAmerica Savannah Job No: 680-106803-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	15000		15200		1.0		6010C
Arsenic	37		38.2		3.2		6010C
Iron	46000		49400		7.6		6010C
Lead	110		112		6.1		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: 680-106803-1

SDG Number: 680-106803-01

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: 680-106803-1

SDG Number: 680-106803-01

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: 680-106803-1

SDG No.: 680-106803-01

ICP-AES Instrument ID: ICPE Date: 04/26/2014

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Aluminum	308.215									-0.001000			0.000256		
Antimony	206.834						0.000900				0.008000		0.000023		
Arsenic	188.980		0.000016										-0.000010		
Barium	389.178												0.000025		0.000062
Beryllium	313.042														
Boron	249.678												-0.000141		
Cadmium	226.502												0.000089		
Calcium	370.602												-0.004290		
Chromium	267.716								-0.000200				0.000009		
Cobalt	228.615										0.000200		0.000006		
Copper	324.754												0.000006		
Iron	271.441									0.077100	0.001160				
Lead	220.353		-0.000009							-0.000200	0.000520		0.000073		
Magnesium	279.078		-0.000142												
Manganese	257.610												0.000014		0.000035
Molybdenum	202.032												-0.000007		
Nickel	231.604									-0.000800			0.000008		
Potassium	766.491														
Selenium	196.026												0.000020		
Silver	328.068												-0.000002		
Sodium	330.237												-0.005002		
Strontium	216.596							0.000029					0.000103		
Thallium	190.794									0.002830			-0.000125		
Tin	189.925														
Titanium	334.941														0.000006
Vanadium	292.401										-0.001640		0.000014		
Zinc	206.200										-0.002860		-0.000043		

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-106803-1

SDG No.: 680-106803-01

ICP-AES Instrument ID: ICPE Date: 04/26/2014

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn	
Aluminum	308.215		0.008600										-0.014788		
Antimony	206.834		-0.012400						0.000200						
Arsenic	188.980		-0.000430												
Barium	389.178		0.000218										0.000095		
Beryllium	313.042		-0.000082										-0.000200		
Boron	249.678														
Cadmium	226.502														
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										0.005220		
Lead	220.353	0.000130	-0.000870								-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										-0.041825			-0.515620	
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		-0.006130								0.000575				
Zinc	206.200														

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Savannah Job No: 680-106803-1

SDG No.: 680-106803-01

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

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-356607/1-A	11/03/2014 09:13	356607	1.07		100
LCS 680-356607/2-A	11/03/2014 09:13	356607	1.03		100
680-106803-2	11/03/2014 09:13	356607	1.04		100
680-106803-2 MS	11/03/2014 09:13	356607	1.06		100
680-106803-2 MSD	11/03/2014 09:13	356607	1.05		100
680-106803-1	11/03/2014 09:13	356607	1.07		100
680-106803-3	11/03/2014 09:13	356607	1.03		100
680-106803-4	11/03/2014 09:13	356607	1.01		100
680-106803-5	11/03/2014 09:13	356607	1.05		100
680-106803-6	11/03/2014 09:13	356607	1.10		100
680-106803-7	11/03/2014 09:13	356607	1.13		100
680-106803-8	11/03/2014 09:13	356607	1.17		100
680-106803-9	11/03/2014 09:13	356607	1.06		100
680-106803-10	11/03/2014 09:13	356607	1.12		100
680-106803-11	11/03/2014 09:13	356607	1.09		100
680-106803-12	11/03/2014 09:13	356607	1.07		100
680-106803-13	11/03/2014 09:13	356607	1.09		100
680-106803-14	11/03/2014 09:13	356607	1.07		100
680-106803-15	11/03/2014 09:13	356607	1.03		100
680-106803-16	11/03/2014 09:13	356607	1.04		100
680-106803-17	11/03/2014 09:13	356607	1.13		100
680-106803-18	11/03/2014 09:13	356607	1.18		100
680-106803-19	11/03/2014 09:13	356607	1.01		100
680-106803-20	11/03/2014 09:13	356607	1.12		100

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Instrument ID: ICPE Method: 6010C

Start Date: 11/04/2014 17:11 End Date: 11/05/2014 08:09

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	As	Fe	Pb																
ZZZZZZ			17:11																				
ZZZZZZ			17:16																				
ZZZZZZ			17:20																				
ZZZZZZ			17:24																				
ZZZZZZ			17:28																				
ZZZZZZ			17:33																				
ICV 680-357015/6	1		17:43	X	X	X	X																
ICBIS 680-357015/7	1		17:47	X	X	X	X																
CRI 680-357015/9	1		17:52	X	X	X	X																
ICSA 680-357015/10	1		17:56	X	X	X	X																
ICSAB 680-357015/11	1		18:00	X	X	X	X																
ZZZZZZ			18:04																				
ZZZZZZ			18:09																				
ZZZZZZ			18:13																				
CCV 680-357015/15			18:32																				
CCB 680-357015/16			18:36																				
ZZZZZZ			18:40																				
ZZZZZZ			18:44																				
ZZZZZZ			18:49																				
ZZZZZZ			18:53																				
ZZZZZZ			18:57																				
ZZZZZZ			19:01																				
ZZZZZZ			19:06																				
ZZZZZZ			19:10																				
ZZZZZZ			19:14																				
ZZZZZZ			19:19																				
CCV 680-357015/27			19:23																				
CCB 680-357015/28			19:27																				
ZZZZZZ			19:31																				
ZZZZZZ			19:36																				
ZZZZZZ			19:40																				
ZZZZZZ			19:44																				
ZZZZZZ			19:48																				
ZZZZZZ			19:53																				
ZZZZZZ			19:57																				
ZZZZZZ			20:01																				
ZZZZZZ			20:05																				
ZZZZZZ			20:10																				
CCV 680-357015/39			20:14																				
CCB 680-357015/40			20:18																				
ZZZZZZ			20:22																				
ZZZZZZ			20:27																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Instrument ID: ICPE Method: 6010C

Start Date: 11/04/2014 17:11 End Date: 11/05/2014 08:09

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	As	Fe	Pb																
ZZZZZZ			20:31																				
ZZZZZZ			20:35																				
ZZZZZZ			20:39																				
ZZZZZZ			20:44																				
ZZZZZZ			20:48																				
ZZZZZZ			20:52																				
ZZZZZZ			20:57																				
ZZZZZZ			21:01																				
CCV 680-357015/51			21:05																				
CCB 680-357015/52			21:09																				
ZZZZZZ			21:14																				
ZZZZZZ			21:18																				
ZZZZZZ			21:22																				
ZZZZZZ			21:26																				
ZZZZZZ			21:31																				
ZZZZZZ			21:35																				
ZZZZZZ			21:39																				
ZZZZZZ			21:43																				
ZZZZZZ			21:48																				
ZZZZZZ			21:52																				
CCV 680-357015/63			21:56																				
CCB 680-357015/64			22:01																				
ZZZZZZ			22:05																				
ZZZZZZ			22:09																				
ZZZZZZ			22:13																				
ZZZZZZ			22:18																				
ZZZZZZ			22:22																				
ZZZZZZ			22:26																				
ZZZZZZ			22:30																				
ZZZZZZ			22:35																				
ZZZZZZ			22:39																				
ZZZZZZ			22:43																				
CCV 680-357015/75			22:48																				
CCB 680-357015/76			22:52																				
ZZZZZZ			22:56																				
ZZZZZZ			23:00																				
ZZZZZZ			23:05																				
ZZZZZZ			23:09																				
ZZZZZZ			23:13																				
ZZZZZZ			23:17																				
ZZZZZZ			23:22																				
ZZZZZZ			23:26																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Instrument ID: ICPE Method: 6010C

Start Date: 11/04/2014 17:11 End Date: 11/05/2014 08:09

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	As	Fe	Pb																
ZZZZZZ			23:30																				
ZZZZZZ			23:34																				
CCV 680-357015/87			23:39																				
CCB 680-357015/88			23:43																				
ZZZZZZ			23:47																				
ZZZZZZ			23:52																				
ZZZZZZ			23:56																				
ZZZZZZ			00:00																				
ZZZZZZ			00:04																				
ZZZZZZ			00:09																				
ZZZZZZ			00:13																				
ZZZZZZ			00:17																				
ZZZZZZ			00:21																				
ZZZZZZ			00:26																				
CCV 680-357015/99	1		00:30	X	X	X	X																
CCB 680-357015/100	1		00:34	X	X	X	X																
ZZZZZZ			00:39																				
ZZZZZZ			00:43																				
MB 680-356607/1-A	1	T	00:47	X	X	X	X																
LCS 680-356607/2-A	1	T	00:51	X	X	X	X																
680-106803-2	1	T	00:56	X	X	X	X																
680-106803-2 SD	5	T	01:00	X	X	X	X																
680-106803-2 PDS	1	T	01:04	X	X	X	X																
680-106803-2 MS	1	T	01:08	X	X	X	X																
680-106803-2 MSD	1	T	01:13	X	X	X	X																
680-106803-1	1	T	01:17	X	X	X	X																
CCV 680-357015/111	1		01:21	X	X	X	X																
CCB 680-357015/112	1		01:25	X	X	X	X																
680-106803-3	1	T	01:30	X	X	X	X																
680-106803-4	1	T	01:34	X	X	X	X																
680-106803-5	1	T	01:38	X	X	X	X																
680-106803-6	1	T	01:43	X	X	X	X																
680-106803-7	1	T	01:47	X	X	X	X																
680-106803-8	1	T	01:51	X	X	X	X																
680-106803-9	1	T	01:55	X	X	X	X																
680-106803-10	1	T	02:00	X	X	X	X																
680-106803-11	1	T	02:04	X	X	X	X																
680-106803-12	1	T	02:08	X	X	X	X																
CCV 680-357015/123	1		02:13	X	X	X	X																
CCB 680-357015/124	1		02:17	X	X	X	X																
680-106803-13	1	T	02:21	X	X	X	X																
680-106803-14	1	T	02:25	X	X	X	X																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Instrument ID: ICPE Method: 6010C

Start Date: 11/04/2014 17:11 End Date: 11/05/2014 08:09

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	As	Fe	Pb																
680-106803-15	1	T	02:30	X	X	X	X																
680-106803-16	1	T	02:34	X	X	X	X																
680-106803-17	1	T	02:38	X	X	X	X																
680-106803-18	1	T	02:42	X	X	X	X																
680-106803-19	1	T	02:47	X	X	X	X																
680-106803-20	1	T	02:51	X	X	X	X																
ZZZZZZ			02:55																				
ZZZZZZ			03:00																				
CCV 680-357015/135	1		03:04	X	X	X	X																
CCB 680-357015/136	1		03:08	X	X	X	X																
ZZZZZZ			03:12																				
ZZZZZZ			03:17																				
ZZZZZZ			03:21																				
ZZZZZZ			03:25																				
ZZZZZZ			03:30																				
ZZZZZZ			03:34																				
ZZZZZZ			03:38																				
ZZZZZZ			03:42																				
ZZZZZZ			03:47																				
ZZZZZZ			03:51																				
CCV 680-357015/147			03:55																				
CCB 680-357015/148			04:00																				
ZZZZZZ			04:04																				
ZZZZZZ			04:08																				
ZZZZZZ			04:12																				
ZZZZZZ			04:17																				
ZZZZZZ			04:21																				
ZZZZZZ			04:25																				
ZZZZZZ			04:30																				
ZZZZZZ			04:34																				
ZZZZZZ			04:38																				
ZZZZZZ			04:42																				
CCV 680-357015/159			04:47																				
CCB 680-357015/160			04:51																				
ZZZZZZ			04:55																				
ZZZZZZ			05:00																				
ZZZZZZ			05:04																				
ZZZZZZ			05:08																				
ZZZZZZ			05:13																				
ZZZZZZ			05:17																				
ZZZZZZ			05:21																				
ZZZZZZ			05:25																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Instrument ID: ICPE Method: 6010C

Start Date: 11/04/2014 17:11 End Date: 11/05/2014 08:09

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	As	Fe	Pb																
ZZZZZZ			05:30																				
ZZZZZZ			05:34																				
CCV 680-357015/171			05:38																				
CCB 680-357015/172			05:43																				
ZZZZZZ			05:47																				
ZZZZZZ			05:51																				
ZZZZZZ			05:55																				
ZZZZZZ			06:00																				
ZZZZZZ			06:04																				
ZZZZZZ			06:08																				
ZZZZZZ			06:13																				
ZZZZZZ			06:17																				
ZZZZZZ			06:21																				
ZZZZZZ			06:26																				
CCV 680-357015/183			06:30																				
CCB 680-357015/184			06:34																				
ZZZZZZ			06:39																				
ZZZZZZ			06:43																				
ZZZZZZ			06:47																				
ZZZZZZ			06:51																				
ZZZZZZ			06:56																				
ZZZZZZ			07:00																				
ZZZZZZ			07:04																				
ZZZZZZ			07:09																				
ZZZZZZ			07:13																				
ZZZZZZ			07:17																				
CCV 680-357015/195			07:22																				
CCB 680-357015/196			07:26																				
ZZZZZZ			07:30																				
ZZZZZZ			07:34																				
ZZZZZZ			07:39																				
ZZZZZZ			07:43																				
ZZZZZZ			07:47																				
CCV 680-357015/202			07:52																				
CCB 680-357015/203			07:56																				
CRI 680-357015/204	1		08:00	X	X	X	X																
CCV 680-357015/205			08:05																				
CCB 680-357015/206			08:09																				

Prep Types

T = Total/NA

Blank (Blk) **11/4/2014, 5:11:53 PM** **Rack S, Tube 1**

Label	Replicates Concentration		
Ag 328.068	0.1464	-0.0828	-0.0636
Al 308.215	-0.2396	-0.0169	0.2565
As 188.980	-0.1863	3.0408	-2.8545
B 249.678	0.0775	0.2273	-0.3048
Ba 389.178	-0.4322	0.5158	-0.0836
Be 313.042	-0.0217	-0.0040	0.0256
Ca 370.602	-0.0777	-0.1251	0.2028
Cd 226.502	-0.0050	-0.0900	0.0950
Co 228.615	0.1649	-0.0536	-0.1113
Cr 267.716	-0.1403	0.0057	0.1346
Cu 324.754	0.0746	-0.0249	-0.0497
Fe 271.441	1.0683	0.1869	-1.2552
K 766.491	0.0108	-0.4962	0.4854
Mg 279.078	-0.6666	0.1797	0.4868
Mn 257.610	-0.0698	-0.0164	0.0862
Mo 202.032	0.1622	-0.0751	-0.0870
Na 330.237	-11.7573	7.3733	4.3839
Ni 231.604	0.7253	-0.6205	-0.1049
Pb 220.353	3.1936	-1.4513	-1.7423
Sb 206.834	1.3389	-1.0234	-0.3155
Se 196.026	6.4726	-6.1404	-0.3322
Sn 189.925	-0.2922	-1.5076	1.7999
Sr 216.596	-0.2659	0.2729	-0.0070
Ti 334.941	-0.0207	-0.0198	0.0406
Tl 190.794	1.0786	0.0731	-1.1517
V 292.401	0.0660	-0.0644	-0.0016
Zn 206.200	0.8557	-0.6224	-0.2333

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	11.207	796.0	-1.4080
Al 308.215	0.0000	ppb	1.838	0.4	498.879
As 188.980	0.0000	ppb	1.922	43.5	-4.4189
B 249.678	0.0000	ppb	4.735	3.8	124.924
Ba 389.178	0.0000	ppb	11.932	16.7	-71.2682
Be 313.042	0.0000	ppb	49.426	22.3	-221.904
Ca 370.602	0.0000	ppb	0.533	1.4	37.55
Cd 226.502	0.0000	ppb	4.513	17.0	26.5317
Co 228.615	0.0000	ppb	1.904	192.3	0.9897
Cr 267.716	0.0000	ppb	8.294	18.3	45.2033
Cu 324.754	0.0000	ppb	5.166	2.1	243.997
Fe 271.441	0.0000	ppb	2.070	12.7	16.2889
K 766.491	0.0000	ppb	21.919	8.2	265.685
Mg 279.078	0.0000	ppb	1.720	8.8	19.6500
Mn 257.610	0.0000	ppb	20.256	21.1	96.1764
Mo 202.032	0.0000	ppb	1.084	12.1	8.9880
Na 330.237	0.0000	ppb	0.505	1.5	33.4258
Ni 231.604	0.0000	ppb	2.303	46.1	-4.9920
Pb 220.353	0.0000	ppb	4.765	65.1	7.3236
Sb 206.834	0.0000	ppb	1.871	44.1	-4.2461
Se 196.026	0.0000	ppb	3.012	131.7	2.2878
Sn 189.925	0.0000	ppb	1.364	29.6	-4.6157
Sr 216.596	0.0000	ppb	3.796	45.5	8.3359
Ti 334.941	0.0000	ppb	11.913	47.8	24.9266

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Tl 190.794	0.0000	ppb	1.318	18.3	-7.2147
V 292.401	0.0000	ppb	1.877	14.6	-12.8730
Zn 206.200	0.0000	ppb	0.933	70.6	1.3203

HIGH STD (Std) **11/4/2014, 5:16:11 PM** **Rack S, Tube 2**

Label	Replicates Concentration		
Ag 328.068	1011.00	997.586	991.416
Al 308.215	10135.1	9948.43	9916.49
As 188.980	1009.48	992.229	998.289
B 249.678	1008.44	994.028	997.528
Ba 389.178	10141.7	9947.59	9910.76
Be 313.042	1012.23	995.514	992.256
Ca 370.602	10129	9951	9920
Cd 226.502	1012.48	994.573	992.950
Co 228.615	1011.80	993.751	994.451
Cr 267.716	10121.0	9945.24	9933.75
Cu 324.754	10102.4	9959.86	9937.79
Fe 271.441	10111.7	9954.49	9933.82
K 766.491	20268.2	19898.7	19833.1
Mg 279.078	10127.1	9949.75	9923.12
Mn 257.610	10124.7	9951.65	9923.67
Mo 202.032	1012.11	993.930	993.959
Na 330.237	15172.1	14888.8	14939.1
Ni 231.604	5063.47	4974.63	4961.90
Pb 220.353	1011.51	994.641	993.851
Sb 206.834	2029.07	1985.81	1985.12
Se 196.026	10108.7	9955.44	9935.88
Sn 189.925	10124.3	9971.54	9904.14
Sr 216.596	5057.42	4976.78	4965.80
Ti 334.941	1014.31	994.322	991.369
Tl 190.794	10112.1	9947.03	9940.90
V 292.401	10138.8	9940.82	9920.38
Zn 206.200	5073.18	4971.80	4955.02

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	882.638	1.0	88161.5
Al 308.215	10000.0	ppb	873.198	1.2	74458.6
As 188.980	1000.00	ppb	5.699	0.9	646.729
B 249.678	1000.00	ppb	129.764	0.7	17381.4
Ba 389.178	10000.0	ppb	3086.867	1.2	248778
Be 313.042	1000.00	ppb	22160.881	1.1	2067732
Ca 370.602	10000	ppb	338.877	1.1	30084
Cd 226.502	1000.00	ppb	528.226	1.1	48777.3
Co 228.615	1000.00	ppb	133.578	1.0	13067.0
Cr 267.716	10000.0	ppb	6327.458	1.0	602926
Cu 324.754	10000.0	ppb	7018.337	0.9	785961
Fe 271.441	10000.0	ppb	171.620	1.0	17660.0
K 766.491	20000.0	ppb	10473.928	1.2	893324
Mg 279.078	10000.0	ppb	319.392	1.1	28821.6
Mn 257.610	10000.0	ppb	27809.961	1.1	2554477
Mo 202.032	1000.00	ppb	80.888	1.0	7721.36
Na 330.237	15000.0	ppb	7.415	1.0	769.367
Ni 231.604	5000.00	ppb	187.699	1.1	16954.7

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Pb 220.353	1000.00	ppb	17.160	1.0	1727.81
Sb 206.834	2000.00	ppb	38.864	1.3	3083.17
Se 196.026	10000.0	ppb	45.151	0.9	4774.07
Sn 189.925	10000.0	ppb	91.998	1.1	8150.24
Sr 216.596	5000.00	ppb	704.793	1.0	70448.3
Ti 334.941	1000.00	ppb	4228.690	1.2	338883
Tl 190.794	10000.0	ppb	114.552	1.0	11789.6
V 292.401	10000.0	ppb	3473.024	1.2	287861
Zn 206.200	5000.00	ppb	77.824	1.3	6088.20

Ag 328.068 Calibration (ppb) **11/4/2014, 5:16:11 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.4080	0.0000	0.0000	-	-
HIGH STD		88161.5	1000.00	1000.000	-0.0002	0.0

Curve Type: Linear Equation: y = 88.2 x + -1.4

Al 308.215 Calibration (ppb) **11/4/2014, 5:16:11 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		498.879	0.0000	0.0000	-	-
HIGH STD		74458.6	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 7.4 x + 498.9

As 188.980 Calibration (ppb) **11/4/2014, 5:16:11 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-4.4189	0.0000	0.0000	-	-
HIGH STD		646.729	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 0.7 x + -4.4

B 249.678 Calibration (ppb) **11/4/2014, 5:16:11 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		124.924	0.0000	0.0000	-	-
HIGH STD		17381.4	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: y = 17.3 x + 124.9

Ba 389.178 Calibration (ppb) **11/4/2014, 5:16:11 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-71.2682	0.0000	0.0000	-	-
HIGH STD		248778	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: y = 24.9 x + -71.3

Be 313.042 Calibration (ppb) 11/4/2014, 5:16:11 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-221.904	0.0000	0.0000	-	-
HIGH STD		2067732	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 2068.0 x + -221.9

Ca 370.602 Calibration (ppb) 11/4/2014, 5:16:11 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		37.55	0.0000	0.0000	-	-
HIGH STD		30084	10000	10000	0.0010	0.0

Curve Type: Linear Equation: y = 3.0 x + 37.6

Cd 226.502 Calibration (ppb) 11/4/2014, 5:16:11 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		26.5317	0.0000	0.0000	-	-
HIGH STD		48777.3	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 48.8 x + 26.5

Co 228.615 Calibration (ppb) 11/4/2014, 5:16:11 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.9897	0.0000	0.0000	-	-
HIGH STD		13067.0	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 13.1 x + 1.0

Cr 267.716 Calibration (ppb) 11/4/2014, 5:16:11 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		45.2033	0.0000	0.0000	-	-
HIGH STD		602926	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: y = 60.3 x + 45.2

Cu 324.754 Calibration (ppb) 11/4/2014, 5:16:11 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		243.997	0.0000	0.0000	-	-
HIGH STD		785961	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 78.6 x + 244.0

Fe 271.441 Calibration (ppb) 11/4/2014, 5:16:11 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		16.2889	0.0000	0.0000	-	-
HIGH STD		17660.0	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 1.8 x + 16.3

K 766.491 Calibration (ppb) 11/4/2014, 5:16:11 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		265.685	0.0000	0.0000	-	-
HIGH STD		893324	20000.0	20000.0	0.0000	0.0

Curve Type: Linear Equation: y = 44.7 x + 265.7

Mg 279.078 Calibration (ppb) 11/4/2014, 5:16:11 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		19.6500	0.0000	0.0000	-	-
HIGH STD		28821.6	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 2.9 x + 19.7

Mn 257.610 Calibration (ppb) 11/4/2014, 5:16:11 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		96.1764	0.0000	0.0000	-	-
HIGH STD		2554477	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 255.4 x + 96.2

Mo 202.032 Calibration (ppb) 11/4/2014, 5:16:11 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		8.9880	0.0000	0.0000	-	-
HIGH STD		7721.36	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 7.7 x + 9.0

Na 330.237 Calibration (ppb) 11/4/2014, 5:16:11 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		33.4258	0.0000	0.0000	-	-
HIGH STD		769.367	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation: y = 0.0 x + 33.4

Ni 231.604 Calibration (ppb) 11/4/2014, 5:16:11 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-4.9920	0.0000	0.0000	-	-
HIGH STD		16954.7	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation: y = 3.4 x + -5.0

Pb 220.353 Calibration (ppb) **11/4/2014, 5:16:11 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		7.3236	0.0000	0.0000	-	-
HIGH STD		1727.81	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 1.7 x + 7.3

Sb 206.834 Calibration (ppb) **11/4/2014, 5:16:11 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-4.2461	0.0000	0.0000	-	-
HIGH STD		3083.17	2000.00	2000.00	-0.0001	0.0

Curve Type: Linear Equation: y = 1.5 x + -4.2

Se 196.026 Calibration (ppb) **11/4/2014, 5:16:11 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.2878	0.0000	0.0000	-	-
HIGH STD		4774.07	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: y = 0.5 x + 2.3

Sn 189.925 Calibration (ppb) **11/4/2014, 5:16:11 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-4.6157	0.0000	0.0000	-	-
HIGH STD		8150.24	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 0.8 x + -4.6

Sr 216.596 Calibration (ppb) **11/4/2014, 5:16:11 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		8.3359	0.0000	0.0000	-	-
HIGH STD		70448.3	5000.00	5000.00	-0.0005	0.0

Curve Type: Linear Equation: y = 14.1 x + 8.3

Ti 334.941 Calibration (ppb) **11/4/2014, 5:16:11 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		24.9266	0.0000	0.0000	-	-
HIGH STD		338883	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: y = 338.9 x + 24.9

Tl 190.794 Calibration (ppb) **11/4/2014, 5:16:11 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-7.2147	0.0000	0.0000	-	-
HIGH STD		11789.6	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 1.2 x + -7.2

V 292.401 Calibration (ppb) 11/4/2014, 5:16:11 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-12.8730	0.0000	0.0000	-	-
HIGH STD		287861	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 28.8 x + -12.9

Zn 206.200 Calibration (ppb) 11/4/2014, 5:16:11 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.3203	0.0000	0.0000	-	-
HIGH STD		6088.20	5000.00	5000.00	-0.0005	0.0

Curve Type: Linear Equation: y = 1.2 x + 1.3

Lab Control Sample (LCS) 11/4/2014, 5:20:26 PM Rack S, Tube 2

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1029.42x	1018.60	996.981
Al 308.215	10197.1	10214.7	9944.49
As 188.980	1011.68	1030.01	996.507
B 249.678	1025.05	1031.04	1006.14
Ba 389.178	10149.4	10159.7	9912.61
Be 313.042	1013.23	1014.56	991.284
Ca 370.602	10284	10293	10065
Cd 226.502	1016.58	1018.63	992.193
Co 228.615	1019.89	1019.65	991.633
Cr 267.716	10166.8	10176.8	9973.39
Cu 324.754	10183.4	10217.2	9915.80
Fe 271.441	10175.6	10188.2	9916.19
K 766.491	20346.7	20357.1	19837.8
Mg 279.078	10148.3	10145.1	9905.36
Mn 257.610	10172.7	10144.4	9887.04
Mo 202.032	1016.94	1017.13	993.681
Na 330.237	15238.0	15472.7	15078.5
Ni 231.604	5104.08	5107.86	4976.02
Pb 220.353	1028.10	1019.32	990.970
Sb 206.834	2051.66	2046.94	1998.57
Se 196.026	10170.7	10179.3	9931.45
Sn 189.925	10169.0	10129.0	9898.29
Sr 216.596	5086.82	5089.70	4960.10
Ti 334.941	1014.95	1014.42	989.967
Tl 190.794	10203.1x	10192.4x	9952.50
V 292.401	10175.8	10165.1	9931.38
Zn 206.200	5099.79	5112.70	4956.88

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1015.00xb	ppb	16.5156	1.6	89383.2	101.49997
Al 308.215	10118.8b	ppb	151.177	1.5	76515.3	101.18761

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	1012.73b	ppb	16.7765	1.7	654.776	101.27306
B 249.678	1020.75b	ppb	12.9966	1.3	17746.2	20.41491*
Ba 389.178	10073.9b	ppb	139.767	1.4	250668	100.73891
Be 313.042	1006.36b	ppb	13.0731	1.3	2081331	100.63600
Ca 370.602	10214b	ppb	129.3	1.3	31427	102.14091
Cd 226.502	1009.13b	ppb	14.7070	1.5	49269.4	100.91341
Co 228.615	1010.39b	ppb	16.2477	1.6	13214.8	101.03937
Cr 267.716	10105.7b	ppb	114.663	1.1	609226	101.05666
Cu 324.754	10105.5b	ppb	165.137	1.6	794139	101.05482
Fe 271.441	10093.3b	ppb	153.530	1.5	18076.7	100.93321
K 766.491	20180.5b	ppb	296.848	1.5	901386	100.90274
Mg 279.078	10066.3b	ppb	139.351	1.4	28787.9	100.66256
Mn 257.610	10068.1b	ppb	157.404	1.6	2571989	100.68062
Mo 202.032	1009.25b	ppb	13.4840	1.3	7779.72	100.92506
Na 330.237	15263.1b	ppb	198.311	1.3	649.738	101.75377
Ni 231.604	5062.65b	ppb	75.0549	1.5	17165.4	101.25308
Pb 220.353	1012.80b	ppb	19.4067	1.9	1759.27	101.27972
Sb 206.834	2032.39b	ppb	29.3835	1.4	3243.22	101.61944
Se 196.026	10093.8b	ppb	140.690	1.4	4821.39	100.93826
Sn 189.925	10065.5b	ppb	146.145	1.5	8203.63	100.65462
Sr 216.596	5045.54b	ppb	74.0059	1.5	70932.1	100.91074
Ti 334.941	1006.45b	ppb	14.2737	1.4	341089	100.64461
Tl 190.794	10116.0xb	ppb	141.704	1.4	11948.0	101.16009
V 292.401	10090.8b	ppb	138.128	1.4	289841	100.90758
Zn 206.200	5056.46b	ppb	86.4787	1.7	6121.30	101.12912

Initial Calib Verif (ICV) **11/4/2014, 5:24:41 PM** **Rack S, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1040.57x	1025.62x	1032.23x
Al 308.215	1015.60	1003.22	1009.05
As 188.980	989.040	984.714	989.850
B 249.678	1034.86	1023.66	1031.66
Ba 389.178	1047.02	1033.07	1041.55
Be 313.042	1027.88x	1017.14x	1021.86x
Ca 370.602	1020	999.8	1014
Cd 226.502	1032.95x	1018.90x	1025.36x
Co 228.615	1070.38	1054.50	1057.70
Cr 267.716	1054.61	1043.01	1048.55
Cu 324.754	1045.34	1027.19	1027.08
Fe 271.441	1024.33	997.724	1011.92
K 766.491	10583.2	10467.8	10511.4
Mg 279.078	1020.34	1005.99	1016.55
Mn 257.610	1066.72	1053.85	1059.29
Mo 202.032	1042.93x	1029.56x	1036.78x
Na 330.237	9984.44	10075.6	9973.88
Ni 231.604	1038.35	1025.67	1029.29
Pb 220.353	1043.00	1030.12	1040.34
Sb 206.834	1032.58	1015.21	1018.70
Se 196.026	1002.18	996.393	1001.94
Sn 189.925	5172.23	5109.11	5175.49
Sr 216.596	5225.15x	5160.33x	5182.73x
Ti 334.941	995.965	984.640	990.143

Label	Replicates Concentration		
Tl 190.794	1030.39	1002.84	1015.50
V 292.401	1051.83	1036.61	1044.31
Zn 206.200	1041.77	1035.73	1039.04

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1032.81xb	ppb	7.4910	0.7	90878.5	103.28078
Al 308.215	1009.29b	ppb	6.1934	0.6	8137.73	100.92886
As 188.980	987.868b	ppb	2.7613	0.3	638.542	98.78680
B 249.678	1030.06b	ppb	5.7681	0.6	17913.0	103.00607
Ba 389.178	1040.55b	ppb	7.0295	0.7	25833.0	104.05455
Be 313.042	1022.30xb	ppb	5.3850	0.5	2113724	102.22954
Ca 370.602	1011b	ppb	10.31	1.0	3561	101.11362
Cd 226.502	1025.74xb	ppb	7.0307	0.7	50036.9	102.57359
Co 228.615	1060.86b	ppb	8.3943	0.8	13852.4	106.08616Q
Cr 267.716	1048.72b	ppb	5.7996	0.6	63254.6	104.87213
Cu 324.754	1033.20b	ppb	10.5096	1.0	81453.4	103.32015
Fe 271.441	1011.33b	ppb	13.3146	1.3	1957.60	101.13268
K 766.491	10520.8b	ppb	58.2832	0.6	470049	105.20770
Mg 279.078	1014.30b	ppb	7.4359	0.7	2917.41	101.42973
Mn 257.610	1059.95b	ppb	6.4600	0.6	270862	105.99538Q
Mo 202.032	1036.43xb	ppb	6.6924	0.6	8000.95	103.64265
Na 330.237	10011.3b	ppb	55.9549	0.6	495.933	100.11322
Ni 231.604	1031.10b	ppb	6.5297	0.6	3489.67	103.11015
Pb 220.353	1037.82b	ppb	6.8001	0.7	1791.65	103.78241
Sb 206.834	1022.16b	ppb	9.1896	0.9	1569.79	102.21611
Se 196.026	1000.17b	ppb	3.2743	0.3	479.816	100.01717
Sn 189.925	5152.28b	ppb	37.4202	0.7	4197.00	103.04555
Sr 216.596	5189.41xb	ppb	32.9213	0.6	73071.0	103.78812
Ti 334.941	990.249b	ppb	5.6636	0.6	335580	99.02491
Tl 190.794	1016.24b	ppb	13.7915	1.4	1193.59	101.62428
V 292.401	1044.25b	ppb	7.6127	0.7	29832.4	104.42487
Zn 206.200	1038.85b	ppb	3.0250	0.3	1262.28	103.88460

Initial Calib Blank (ICB) **11/4/2014, 5:28:56 PM** **Rack S, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1028u	0.0255	0.0580
Al 308.215	-0.0904u	-1.1111u	-1.5704u
As 188.980	-3.7874u	-5.2000u	2.1026
B 249.678	16.0585	13.5363	11.9816
Ba 389.178	0.5572	0.4578	-0.1829u
Be 313.042	0.0189	0.0172	0.0231
Ca 370.602	1.105	-2.870u	-2.486u
Cd 226.502	0.0194	-0.1477u	0.0666
Co 228.615	0.0187	0.1219	-0.0485u
Cr 267.716	-0.0205u	0.0784	0.1565
Cu 324.754	0.3237	0.1565	0.3666
Fe 271.441	-2.1148u	-0.7637u	-0.1059u
K 766.491	1.0390	1.2700	1.5340
Mg 279.078	0.9181	1.0773	1.2969
Mn 257.610	0.1076	0.1026	0.1266
Mo 202.032	0.7724	0.8841	-0.1849u
Na 330.237	-101.137u	-38.9852u	-93.3808u

Label	Replicates Concentration		
Ni 231.604	-0.1019u	0.3705	0.0803
Pb 220.353	1.4398	0.4049	-0.4406u
Sb 206.834	2.3195	1.4766	0.8065
Se 196.026	2.7202	1.8382	9.2398
Sn 189.925	0.9374	-0.3287u	-0.5336u
Sr 216.596	0.1862	0.5890	-0.1460u
Ti 334.941	0.1240	0.1162	0.1030
Tl 190.794	2.8640	-1.1316u	-0.0497u
V 292.401	0.0203	0.1255	-0.0219u
Zn 206.200	-0.1120u	1.0350	0.1939

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0064	ppb	0.0850	1324.0	-1.9802	-0.00642
Al 308.215	-0.9240	ppb	0.7575	82.0	492.088	-0.92397
As 188.980	-2.2949	ppb	3.8733	168.8	-5.9134	-2.29493
B 249.678	13.8588	ppb	2.0575	14.8	364.064	13.85884
Ba 389.178	0.2774	ppb	0.4017	144.8	-64.3616	0.27737
Be 313.042	0.0197	ppb	0.0030	15.3	-181.156	0.01974
Ca 370.602	-1.417	ppb	2.192	154.7	33.35	-1.41696
Cd 226.502	-0.0206	ppb	0.1126	548.0	25.5330	-0.02055
Co 228.615	0.0307	ppb	0.0858	279.4	1.3776	0.03073
Cr 267.716	0.0715	ppb	0.0887	124.0	49.5117	0.07149
Cu 324.754	0.2823	ppb	0.1110	39.3	266.198	0.28227
Fe 271.441	-0.9948	ppb	1.0242	103.0	14.5359	-0.99479
K 766.491	1.2810	ppb	0.2477	19.3	322.885	1.28100
Mg 279.078	1.0974	ppb	0.1902	17.3	22.8088	1.09744
Mn 257.610	0.1123	ppb	0.0127	11.3	124.864	0.11228
Mo 202.032	0.4905	ppb	0.5876	119.8	12.7710	0.49053
Na 330.237	-77.8345	ppb	33.8672	43.5	29.6067	-77.83448
Ni 231.604	0.1163	ppb	0.2383	204.8	-4.5974	0.11633
Pb 220.353	0.4680	ppb	0.9418	201.2	8.1281	0.46804
Sb 206.834	1.5342	ppb	0.7581	49.4	-1.8874	1.53418
Se 196.026	4.5994	ppb	4.0428	87.9	4.4825	4.59940
Sn 189.925	0.0251	ppb	0.7967	3180.1	-4.5953	0.02505
Sr 216.596	0.2097	ppb	0.3680	175.5	11.2817	0.20972
Ti 334.941	0.1144	ppb	0.0106	9.3	63.7030	0.11440
Tl 190.794	0.5609	ppb	2.0666	368.4	-6.5549	0.56090
V 292.401	0.0413	ppb	0.0759	183.8	-11.7816	0.04131
Zn 206.200	0.3723	ppb	0.5939	159.5	1.7732	0.37229

Initial Calib Verif (ICV) **11/4/2014, 5:43:38 PM** **Rack S, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1018.01x	1019.45x	1015.58x
Al 308.215	984.298	995.979	987.400
As 188.980	955.073	975.942	971.640
B 249.678	990.156	1005.90	996.957
Ba 389.178	1017.56	1028.55	1016.78
Be 313.042	1003.20x	1013.99x	998.657
Ca 370.602	989.4	995.0	985.1
Cd 226.502	1006.73x	1017.66x	1006.99x
Co 228.615	1032.64	1052.00	1033.95
Cr 267.716	1025.48	1035.65	1025.49

Label	Replicates Concentration		
Cu 324.754	1004.27	1022.16	1013.72
Fe 271.441	989.181	1000.78	985.579
K 766.491	10294.1	10425.8	10337.0
Mg 279.078	988.389	999.536	987.948
Mn 257.610	1036.06	1047.18	1035.16
Mo 202.032	1018.67x	1027.83x	1017.81x
Na 330.237	9867.21	9786.67	9757.03
Ni 231.604	1009.74	1022.26	1009.06
Pb 220.353	1020.37	1037.24	1015.16
Sb 206.834	1004.89	1018.12	1006.09
Se 196.026	971.691	987.199	979.428
Sn 189.925	5051.83	5098.48	5024.49
Sr 216.596	5088.21x	5134.94x	5081.04x
Ti 334.941	970.484	981.233	971.331
Tl 190.794	993.905	1008.58	1001.28
V 292.401	1023.43	1034.83	1024.68
Zn 206.200	1015.05	1025.01	1016.26

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1017.68xb	ppb	1.9526	0.2	89548.0	101.76794
Al 308.215	989.226b	ppb	6.0511	0.6	7986.10	98.92256
As 188.980	967.552b	ppb	11.0189	1.1	625.318	96.75519
B 249.678	997.672b	ppb	7.8979	0.8	17353.9	99.76720
Ba 389.178	1020.96b	ppb	6.5832	0.6	25345.4	102.09608
Be 313.042	1005.28xb	ppb	7.8757	0.8	2078541	100.52811
Ca 370.602	989.8b	ppb	4.956	0.5	3488	98.98306
Cd 226.502	1010.46xb	ppb	6.2351	0.6	49292.1	101.04589
Co 228.615	1039.53b	ppb	10.8221	1.0	13573.8	103.95298
Cr 267.716	1028.87b	ppb	5.8725	0.6	62058.3	102.88739
Cu 324.754	1013.38b	ppb	8.9464	0.9	79895.9	101.33839
Fe 271.441	991.847b	ppb	7.9441	0.8	1920.12	99.18473
K 766.491	10352.3b	ppb	67.1176	0.6	462527	103.52312
Mg 279.078	991.958b	ppb	6.5669	0.7	2853.52	99.19579
Mn 257.610	1039.47b	ppb	6.6928	0.6	265628	103.94659
Mo 202.032	1021.44xb	ppb	5.5554	0.5	7885.37	102.14359
Na 330.237	9803.64b	ppb	57.0167	0.6	486.272	98.03638
Ni 231.604	1013.69b	ppb	7.4320	0.7	3430.66	101.36875
Pb 220.353	1024.26b	ppb	11.5448	1.1	1768.32	102.42570
Sb 206.834	1009.70b	ppb	7.3154	0.7	1550.58	100.97023
Se 196.026	979.439b	ppb	7.7540	0.8	469.918	97.94392
Sn 189.925	5058.26b	ppb	37.4125	0.7	4120.33	101.16528
Sr 216.596	5101.40xb	ppb	29.2668	0.6	71831.9	102.02794
Ti 334.941	974.349b	ppb	5.9765	0.6	330192	97.43494
Tl 190.794	1001.25b	ppb	7.3360	0.7	1175.86	100.12537
V 292.401	1027.65b	ppb	6.2552	0.6	29358.2	102.76454
Zn 206.200	1018.77b	ppb	5.4375	0.5	1237.92	101.87746

Initial Calib Blank (ICB) **11/4/2014, 5:47:53 PM** **Rack S, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3450u	0.1544	0.0508
Al 308.215	-0.5915u	0.5848	-0.1129u
As 188.980	-4.0341u	3.6165	-1.5673u

Label	Replicates Concentration		
B 249.678	10.5845	9.1027	7.2702
Ba 389.178	0.2610	0.1363	0.3644
Be 313.042	0.0326	0.0382	0.0556
Ca 370.602	1.621	-0.9380u	1.846
Cd 226.502	0.0222	-0.0099u	0.0205
Co 228.615	-0.1100u	-0.2816u	0.0190
Cr 267.716	-0.0990u	-0.0400u	0.0071
Cu 324.754	-0.2299u	0.0717	0.1533
Fe 271.441	0.7910	1.4512	3.4155
K 766.491	0.8561	1.0068	1.5697
Mg 279.078	1.1755	0.7656	2.1970
Mn 257.610	0.0037	0.0562	0.0907
Mo 202.032	-0.0660u	0.2259	0.1424
Na 330.237	104.901	-32.5837u	-164.850u
Ni 231.604	-0.6528u	-0.5430u	-0.0020u
Pb 220.353	1.2632	0.0562	-0.2038u
Sb 206.834	-0.2332u	2.4504	2.5489
Se 196.026	5.4419	2.9958	4.9961
Sn 189.925	-1.4148u	0.9067	-4.4201u
Sr 216.596	0.1541	0.0173	0.3863
Ti 334.941	0.1516	0.1348	0.1032
Tl 190.794	-1.1823u	-1.8538u	0.6860
V 292.401	0.1454	-0.0507u	-0.0886u
Zn 206.200	0.2011	-0.3472u	0.3583

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0466	ppb	0.2636	565.4	-5.5223	-0.04662
Al 308.215	-0.0399	ppb	0.5915	1483.8	498.593	-0.03987
As 188.980	-0.6616	ppb	3.9049	590.2	-4.8498	-0.66162
B 249.678	8.9858	ppb	1.6602	18.5	279.988	8.98581
Ba 389.178	0.2539	ppb	0.1142	45.0	-64.9424	0.25394
Be 313.042	0.0421	ppb	0.0120	28.5	-134.807	0.04213
Ca 370.602	0.8430	ppb	1.547	183.5	40.12	0.84301
Cd 226.502	0.0109	ppb	0.0181	165.4	27.0731	0.01091
Co 228.615	-0.1242	ppb	0.1508	121.4	-0.6343	-0.12419
Cr 267.716	-0.0440	ppb	0.0532	120.9	42.5523	-0.04398
Cu 324.754	-0.0016	ppb	0.2019	12382.4	243.879	-0.00163
Fe 271.441	1.8859	ppb	1.3652	72.4	19.6049	1.88590
K 766.491	1.1442	ppb	0.3761	32.9	316.776	1.14420
Mg 279.078	1.3793	ppb	0.7372	53.4	23.6211	1.37934
Mn 257.610	0.0502	ppb	0.0438	87.3	109.030	0.05019
Mo 202.032	0.1008	ppb	0.1504	149.2	9.7652	0.10078
Na 330.237	-30.8444	ppb	134.884	437.3	31.9359	-30.84436
Ni 231.604	-0.3993	ppb	0.3484	87.3	-6.3459	-0.39928
Pb 220.353	0.3719	ppb	0.7828	210.5	7.9632	0.37188
Sb 206.834	1.5887	ppb	1.5786	99.4	-1.7984	1.58868
Se 196.026	4.4779	ppb	1.3027	29.1	4.4246	4.47793
Sn 189.925	-1.6427	ppb	2.6707	162.6	-5.9554	-1.64274
Sr 216.596	0.1859	ppb	0.1866	100.3	10.9717	0.18593
Ti 334.941	0.1299	ppb	0.0246	18.9	68.9502	0.12988
Tl 190.794	-0.7834	ppb	1.3161	168.0	-8.1402	-0.78337
V 292.401	0.0020	ppb	0.1256	6217.8	-12.8449	0.00202
Zn 206.200	0.0707	ppb	0.3704	523.7	1.4064	0.07072

CRI (CRI) **11/4/2014, 5:33:12 PM** **Rack S, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.2190	10.1945	10.5575
Al 308.215	191.378	191.744	192.741
As 188.980	19.0339	20.2937	22.7524
B 249.678	100.777	101.107	100.525
Ba 389.178	10.3026	10.3367	10.2997
Be 313.042	4.0169	4.0469	4.0243
Ca 370.602	495.2	503.1	500.6
Cd 226.502	4.8152	4.8415	4.9211
Co 228.615	9.9282	9.7756	9.6865
Cr 267.716	9.9923	10.0511	10.1375
Cu 324.754	21.2880	20.8277	20.1975
Fe 271.441	50.2699	49.2341	51.6031
K 766.491	1056.79	1059.56	1055.97
Mg 279.078	498.271	501.477	501.055
Mn 257.610	10.4543	10.5227	10.4942
Mo 202.032	9.8096	9.7488	10.1818
Na 330.237	931.484	836.257	957.696
Ni 231.604	40.8980	40.2068	40.4944
Pb 220.353	11.8645	9.8198	11.2067
Sb 206.834	18.8359	21.1152	18.7037
Se 196.026	21.0612	19.2468	17.5444
Sn 189.925	46.5988	48.3759	51.5116
Sr 216.596	9.7776	9.4626	10.0045
Ti 334.941	9.8736	9.9376	9.9104
Tl 190.794	23.6251	26.7224	25.5536
V 292.401	10.1648	10.4352	10.4780
Zn 206.200	20.2958	20.2242	19.6409

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	10.3237	ppb	0.2029	2.0	908.482	103.23692
Al 308.215	191.954	ppb	0.7056	0.4	1920.38	95.97723
As 188.980	20.6933	ppb	1.8912	9.1	9.0544	103.46667
B 249.678	100.803	ppb	0.2917	0.3	1864.59	100.80310
Ba 389.178	10.3130	ppb	0.0206	0.2	186.260	103.12996
Be 313.042	4.0294	ppb	0.0156	0.4	8109.62	100.73431
Ca 370.602	499.6	ppb	4.020	0.8	1543	99.92599
Cd 226.502	4.8593	ppb	0.0551	1.1	263.664	97.18565
Co 228.615	9.7968	ppb	0.1222	1.2	128.916	97.96754
Cr 267.716	10.0603	ppb	0.0730	0.7	651.663	100.60266
Cu 324.754	20.7711	ppb	0.5474	2.6	1876.30	103.85529
Fe 271.441	50.3690	ppb	1.1876	2.4	106.616	100.73809
K 766.491	1057.44	ppb	1.8808	0.2	47483.5	105.74410
Mg 279.078	500.267	ppb	1.7420	0.3	1460.21	100.05348
Mn 257.610	10.4904	ppb	0.0344	0.3	2780.52	104.90370
Mo 202.032	9.9134	ppb	0.2344	2.4	85.4280	99.13388
Na 330.237	908.479	ppb	63.9045	7.0	77.4647	90.84792
Ni 231.604	40.5331	ppb	0.3472	0.9	132.472	101.33266
Pb 220.353	10.9637	ppb	1.0438	9.5	26.1748	109.63660
Sb 206.834	19.5516	ppb	1.3557	6.9	25.8921	97.75787
Se 196.026	19.2841	ppb	1.7587	9.1	11.4930	96.42064
Sn 189.925	48.8288	ppb	2.4875	5.1	35.2038	97.65754
Sr 216.596	9.7482	ppb	0.2722	2.8	144.522	97.48241

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	9.9072	ppb	0.0321	0.3	3383.02	99.07185
Tl 190.794	25.3004	ppb	1.5641	6.2	22.6445	101.20153
V 292.401	10.3593	ppb	0.1699	1.6	283.297	103.59334
Zn 206.200	20.0536	ppb	0.3592	1.8	25.6953	100.26805

CRI (CRI) **11/4/2014, 5:52:08 PM** **Rack S, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.9509	10.3148	10.2863
Al 308.215	193.893	191.441	192.779
As 188.980	17.5256	19.5114	20.3845
B 249.678	99.3016	99.4583	99.6991
Ba 389.178	9.8489	10.3658	10.1518
Be 313.042	4.0532	4.0511	4.0676
Ca 370.602	497.3	505.6	503.2
Cd 226.502	4.7926	4.9168	4.8355
Co 228.615	9.8025	9.9991	9.7075
Cr 267.716	10.1821	10.0878	10.0586
Cu 324.754	20.8764	20.8067	20.8212
Fe 271.441	50.3671	50.4829	51.0133
K 766.491	1059.36	1055.21	1059.69
Mg 279.078	498.659	496.510	502.752
Mn 257.610	10.4976	10.4962	10.5079
Mo 202.032	9.9360	9.3890	9.5115
Na 330.237	779.261	1027.66	978.707
Ni 231.604	39.2263	39.7109	40.3257
Pb 220.353	10.4108	10.1415	9.1321
Sb 206.834	19.0835	18.4289	15.9997
Se 196.026	19.5392	15.5286	20.0496
Sn 189.925	49.2666	49.5629	50.0699
Sr 216.596	9.6745	9.9187	9.5862
Ti 334.941	9.9520	9.9122	9.9627
Tl 190.794	26.0907	24.9726	23.6686
V 292.401	10.3404	10.6444	10.6984
Zn 206.200	19.5922	20.3334	21.2894

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	10.1840	ppb	0.2024	2.0	896.169	101.84020
Al 308.215	192.704	ppb	1.2275	0.6	1925.90	96.35219
As 188.980	19.1405	ppb	1.4651	7.7	8.0433	95.70244
B 249.678	99.4863	ppb	0.2002	0.2	1841.85	99.48634
Ba 389.178	10.1222	ppb	0.2597	2.6	181.509	101.22154
Be 313.042	4.0573	ppb	0.0090	0.2	8167.45	101.43291
Ca 370.602	502.0	ppb	4.311	0.9	1550	100.40762
Cd 226.502	4.8483	ppb	0.0631	1.3	263.130	96.96637
Co 228.615	9.8364	ppb	0.1487	1.5	129.441	98.36395
Cr 267.716	10.1095	ppb	0.0645	0.6	654.630	101.09479
Cu 324.754	20.8348	ppb	0.0368	0.2	1881.30	104.17380
Fe 271.441	50.6211	ppb	0.3445	0.7	107.066	101.24218
K 766.491	1058.09	ppb	2.4982	0.2	47512.3	105.80861
Mg 279.078	499.307	ppb	3.1708	0.6	1457.44	99.86138
Mn 257.610	10.5005	ppb	0.0064	0.1	2783.12	105.00542
Mo 202.032	9.6122	ppb	0.2870	3.0	83.1051	96.12190

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	928.542	ppb	131.577	14.2	78.4359	92.85417
Ni 231.604	39.7543	ppb	0.5510	1.4	129.830	99.38577
Pb 220.353	9.8948	ppb	0.6741	6.8	24.3363	98.94804
Sb 206.834	17.8374	ppb	1.6248	9.1	23.2513	89.18683
Se 196.026	18.3725	ppb	2.4761	13.5	11.0579	91.86233
Sn 189.925	49.6331	ppb	0.4062	0.8	35.8597	99.26629
Sr 216.596	9.7265	ppb	0.1722	1.8	144.253	97.26472
Ti 334.941	9.9423	ppb	0.0266	0.3	3394.91	99.42290
Tl 190.794	24.9106	ppb	1.2122	4.9	22.1856	99.64247
V 292.401	10.5611	ppb	0.1930	1.8	289.146	105.61069
Zn 206.200	20.4050	ppb	0.8509	4.2	26.1229	102.02504

Interf Check A (ICSA) **11/4/2014, 5:56:25 PM** **Rack S, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4144u	0.2610u	-0.0125u
Al 308.215	543072	541720	544140
As 188.980	-14.8485u	-3.9650	-3.6263
B 249.678	-1.3371u	-1.5536u	-2.2116u
Ba 389.178	1.8599	1.6588	2.3151
Be 313.042	-0.1761u	-0.1692u	-0.1701u
Ca 370.602	508568	506110	504240
Cd 226.502	4.5487	4.3087	4.4206
Co 228.615	-1.5880u	-1.4104u	-0.8056
Cr 267.716	0.3972	0.5433	0.5376
Cu 324.754	1.6761	1.5960	1.5542
Fe 271.441	190551	189976	190373
K 766.491	9.2307	8.9122	9.4860
Mg 279.078	518713	517189	519146
Mn 257.610	3.1039	3.0009	3.1724
Mo 202.032	1.2946u	2.2050	1.5390
Na 330.237	-87.2646u	-126.620u	-278.480u
Ni 231.604	-0.2575	0.0249	0.9695
Pb 220.353	2.1362	-3.7512u	-0.3128
Sb 206.834	9.4587	-2.0673	-3.4832
Se 196.026	-6.8070u	-4.5563	7.6845
Sn 189.925	-6.0620u	-1.3910u	-11.3643u
Sr 216.596	4.1405	4.1810	4.9311
Ti 334.941	0.8550	0.7926	0.9138
Tl 190.794	-5.2626u	-2.8592u	-7.0970u
V 292.401	-4.7442u	-5.3182u	-4.8468u
Zn 206.200	13.4386	13.7216	9.8846

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0553	ppb	0.3397	614.4	-48.2143	-0.05529
Al 308.215	542978	ppb	1212.71	0.2	4016703	-
As 188.980	-7.4799	ppb	6.3836	85.3	-4.9643	-7.47993
B 249.678	-1.7008	ppb	0.4554	26.8	-359.368	-1.70076
Ba 389.178	1.9446	ppb	0.3363	17.3	900.099	1.94461
Be 313.042	-0.1718	ppb	0.0037	2.2	-354.935	-0.17178
Ca 370.602	506306	ppb	2170	0.4	1518916	-
Cd 226.502	4.4260	ppb	0.1201	2.7	1117.00	4.42601
Co 228.615	-1.2680	ppb	0.4102	32.4	-0.8140	-1.26800

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	0.4927	ppb	0.0828	16.8	182.800	0.49268
Cu 324.754	1.6088	ppb	0.0620	3.9	458.511	1.60877
Fe 271.441	190300	ppb	294.230	0.2	335776	-
K 766.491	9.2096	ppb	0.2875	3.1	676.921	9.20962
Mg 279.078	518349	ppb	1027.99	0.2	1492749	-
Mn 257.610	3.0924	ppb	0.0863	2.8	6236.08	3.09237
Mo 202.032	1.6796	ppb	0.4712	28.1	11.8395	1.67956
Na 330.237	-164.122	ppb	100.973	61.5	-20.7857	-164.12161
Ni 231.604	0.2456	ppb	0.6426	261.6	13.8605	0.24563
Pb 220.353	-0.6426	ppb	2.9575	460.3	11.8205	-0.64258
Sb 206.834	1.3027	ppb	7.0987	544.9	4.4261	1.30274
Se 196.026	-1.2263	ppb	7.7985	636.0	4.3857	-1.22626
Sn 189.925	-6.2724	ppb	4.9900	79.6	-9.7313	-6.27243
Sr 216.596	4.4175	ppb	0.4452	10.1	552.771	4.41753
Ti 334.941	0.8538	ppb	0.0606	7.1	1435.51	0.85379
Tl 190.794	-5.0729	ppb	2.1252	41.9	-40.7573	-5.07292
V 292.401	-4.9697	ppb	0.3061	6.2	-78.0263	-4.96974
Zn 206.200	12.3483	ppb	2.1383	17.3	6.5549	12.34826

Interf Check AB (ICSAB) **11/4/2014, 6:00:42 PM** **Rack S, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	232.393	232.051	232.080
Al 308.215	555629	556862	555789
As 188.980	98.9733	105.815	100.268
B 249.678	-5.6011u	-6.4227u	-5.4996u
Ba 389.178	514.155	516.024	515.458
Be 313.042	490.721	491.005	490.478
Ca 370.602	513816	510884	512109
Cd 226.502	954.882	955.619	954.919
Co 228.615	484.391	481.637	481.979
Cr 267.716	508.185	508.759	507.919
Cu 324.754	592.994	586.319	588.557
Fe 271.441	194169	194284	194012
K 766.491	11.7787	11.2969	11.7949
Mg 279.078	529544	529824	528735
Mn 257.610	518.190	518.468	518.617
Mo 202.032	1014.64	1012.33	1011.59
Na 330.237	-38.1155u	-242.608u	-427.137u
Ni 231.604	932.461	930.562	932.327
Pb 220.353	52.4999	54.2963	46.2523
Sb 206.834	635.070	636.999	640.716
Se 196.026	59.6245	59.6593	55.2379
Sn 189.925	1015.61	1014.48	1007.20
Sr 216.596	-8.8649	-8.7063	-9.4562
Ti 334.941	2.3061	2.2909	2.2522
Tl 190.794	89.9299	87.0856	82.1549
V 292.401	493.673	494.389	492.029
Zn 206.200	941.703	940.333	937.970

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	232.174	ppb	0.1896	0.1	20429.6	116.08715
Al 308.215	556093	ppb	670.547	0.1	4113829	111.21867

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	101.686	ppb	3.6344	3.6	65.9459	101.68556
B 249.678	-5.8412	ppb	0.5062	8.7	-430.743	-
Ba 389.178	515.212	ppb	0.9588	0.2	13699.0	103.04246
Be 313.042	490.735	ppb	0.2637	0.1	1014680	98.14698
Ca 370.602	512270	ppb	1472	0.3	1536804	102.45393
Cd 226.502	955.140	ppb	0.4154	0.0	47483.3	95.51400
Co 228.615	482.669	ppb	1.5008	0.3	6291.49	96.53376
Cr 267.716	508.288	ppb	0.4291	0.1	30784.5	101.65751
Cu 324.754	589.290	ppb	3.3978	0.6	46671.4	117.85799
Fe 271.441	194155	ppb	136.190	0.1	342650	97.07745
K 766.491	11.6235	ppb	0.2829	2.4	784.708	-
Mg 279.078	529368	ppb	565.654	0.1	1524468	105.87359
Mn 257.610	518.425	ppb	0.2170	0.0	137986	103.68504
Mo 202.032	1012.85	ppb	1.5888	0.2	7809.57	101.28536
Na 330.237	-235.954	ppb	194.596	82.5	-48.9236	-
Ni 231.604	931.784	ppb	1.0600	0.1	3172.65	93.17836
Pb 220.353	51.0162	ppb	4.2223	8.3	99.6757	102.03232
Sb 206.834	637.595	ppb	2.8699	0.5	974.727	106.26578
Se 196.026	58.1739	ppb	2.5427	4.4	32.9089	116.34776
Sn 189.925	1012.43	ppb	4.5643	0.5	821.004	101.24268
Sr 216.596	-9.0091	ppb	0.3952	4.4	328.293	-
Ti 334.941	2.2831	ppb	0.0278	1.2	1943.89	-
Tl 190.794	86.3902	ppb	3.9339	4.6	65.5910	86.39016
V 292.401	493.364	ppb	1.2104	0.2	14067.2	98.67276
Zn 206.200	940.002	ppb	1.8882	0.2	1133.89	94.00019

LRA1 (Samp) **11/4/2014, 6:04:59 PM** **Rack S, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6277	-0.6038	-0.8634
Al 308.215	33.4177	31.7676	30.3523
As 188.980	19260.2x	19473.4x	19384.6x
B 249.678	4852.08	4896.00	4890.24
Ba 389.178	0.1062	0.0091	-0.0762u
Be 313.042	0.0324	0.0337	0.0372
Ca 370.602	102.5	86.24	57.27
Cd 226.502	-2.1697u	-2.3785u	-2.2068u
Co 228.615	9819.41	9879.88	9822.29
Cr 267.716	-1.8820	-2.1328	-1.9350
Cu 324.754	-4.3060u	-4.3445u	-4.2080u
Fe 271.441	-67.3592	-70.4490	-75.3630
K 766.491	0.1739	-0.4149u	-0.1389u
Mg 279.078	-9.3131u	-10.5975u	-15.1931u
Mn 257.610	26772.8	26762.3	26757.9
Mo 202.032	0.1588	0.1323	-0.1162u
Na 330.237	1216.33	1362.18	1526.43
Ni 231.604	9877.89x	9912.69x	9860.27x
Pb 220.353	20104.1x	20183.7x	20073.6x
Sb 206.834	5.8047	3.7761	2.4387
Se 196.026	-0.3104	4.4059	-5.2780
Sn 189.925	-1.3973u	1.1789	1.8079
Sr 216.596	0.9346u	1.2171u	0.3826u
Ti 334.941	26496.7	26655.8	26553.5

Label	Replicates Concentration		
Tl 190.794	0.8291	7.1878	6.3540
V 292.401	-11.3604	-11.4127	-11.5485
Zn 206.200	0.4810	1.2633	-0.8595u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6983b	ppb	0.1434	20.5	82.0973
Al 308.215	31.8459b	ppb	1.5342	4.8	664.005
As 188.980	19372.8xb	ppb	107.098	0.6	12610.1
B 249.678	4879.44b	ppb	23.8708	0.5	84325.2
Ba 389.178	0.0130b	ppb	0.0913	700.4	-70.8422
Be 313.042	0.0344b	ppb	0.0025	7.2	-168.100
Ca 370.602	82.00b	ppb	22.90	27.9	13357
Cd 226.502	-2.2517b	ppb	0.1114	4.9	-79.6787
Co 228.615	9840.52b	ppb	34.1116	0.3	129219
Cr 267.716	-1.9833b	ppb	0.1322	6.7	135.110
Cu 324.754	-4.2862b	ppb	0.0704	1.6	-92.8685
Fe 271.441	-71.0571b	ppb	4.0364	5.7	1232.22
K 766.491	-0.1266b	ppb	0.2946	232.7	260.030
Mg 279.078	-11.7012b	ppb	3.0915	26.4	-599.987
Mn 257.610	26764.3b	ppb	7.6597	0.0	6836722
Mo 202.032	0.0583b	ppb	0.1517	260.2	9.3872
Na 330.237	1368.31b	ppb	155.143	11.3	45.9146
Ni 231.604	9883.62xb	ppb	26.6748	0.3	33492.9
Pb 220.353	20120.4xb	ppb	56.8351	0.3	34612.0
Sb 206.834	4.0065b	ppb	1.6948	42.3	1.9706
Se 196.026	-0.3942b	ppb	4.8425	1228.5	8.4958
Sn 189.925	0.5299b	ppb	1.6983	320.5	-4.1843
Sr 216.596	0.8448b	ppb	0.4244	50.2	-295.326
Ti 334.941	26568.7b	ppb	80.6137	0.3	9003031
Tl 190.794	4.7903b	ppb	3.4557	72.1	45.9866
V 292.401	-11.4405b	ppb	0.0971	0.8	97.5377
Zn 206.200	0.2949b	ppb	1.0736	364.0	1.6410

LRA2 (Samp) **11/4/2014, 6:09:18 PM** **Rack S, Tube 8**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2995u	0.3566u	0.5963u
Al 308.215	827361	829366	830379
As 188.980	38.5636	19.9318	19.2100
B 249.678	54.7583u	45.5883u	37.7939u
Ba 389.178	-1.3677	-1.7400	-1.7119
Be 313.042	-0.2314u	-0.2274u	-0.2386u
Ca 370.602	776832	779953	777850
Cd 226.502	26.0781	25.2720	26.5701
Co 228.615	-10.2520u	-11.0933u	-11.6454u
Cr 267.716	-4.9340	-4.2185	-4.3257
Cu 324.754	2.6719	2.5905	2.4956
Fe 271.441	910664	911566	909905
K 766.491	42.1478	42.5185	42.6699
Mg 279.078	781363	780029	779392
Mn 257.610	6.7877	6.7324	6.7123
Mo 202.032	2.8303u	4.5866u	4.3311u
Na 330.237	-286.568u	-265.853u	-160.769u

Label	Replicates Concentration		
Ni 231.604	244.356	243.858	241.519
Pb 220.353	-0.8080	-6.0328	-6.4698
Sb 206.834	-3.9884	-5.1527	-7.8016
Se 196.026	-58.0804u	0.0946	-18.7158
Sn 189.925	-8.7253u	-0.4858u	-0.9982u
Sr 216.596	0.6503	-0.3323	-0.3236
Ti 334.941	4.9477	4.5560	4.2113
Tl 190.794	-35.3867u	-43.8815u	-43.6244u
V 292.401	-26.7358u	-26.9673u	-26.1447u
Zn 206.200	20.7119u	24.9042u	18.5545u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2178	ppb	0.4638	213.0	-157.372
Al 308.215	829035	ppb	1536.18	0.2	6133722
As 188.980	25.9018	ppb	10.9714	42.4	15.0865
B 249.678	46.0468	ppb	8.4915	18.4	-1259.25
Ba 389.178	-1.6066	ppb	0.2073	12.9	1660.08
Be 313.042	-0.2325	ppb	0.0057	2.4	-388.486
Ca 370.602	778212	ppb	1591	0.2	2326775
Cd 226.502	25.9734	ppb	0.6554	2.5	5453.71
Co 228.615	-10.9969	ppb	0.7017	6.4	-72.1569
Cr 267.716	-4.4927	ppb	0.3859	8.6	269.145
Cu 324.754	2.5860	ppb	0.0882	3.4	869.039
Fe 271.441	910711	ppb	831.299	0.1	1606851
K 766.491	42.4454	ppb	0.2686	0.6	2161.00
Mg 279.078	780261	ppb	1005.93	0.1	2246992
Mn 257.610	6.7441	ppb	0.0390	0.6	12067.0
Mo 202.032	3.9160	ppb	0.9489	24.2	-9.1854
Na 330.237	-237.730	ppb	67.4503	28.4	-198.430
Ni 231.604	243.244	ppb	1.5149	0.6	905.544
Pb 220.353	-4.4369	ppb	3.1503	71.0	53.3752
Sb 206.834	-5.6476	ppb	1.9541	34.6	18.9270
Se 196.026	-25.5672	ppb	29.6865	116.1	2.9206
Sn 189.925	-3.4031	ppb	4.6163	135.7	-7.3931
Sr 216.596	-0.0019	ppb	0.5648	30325.4	1592.39
Ti 334.941	4.5717	ppb	0.3685	8.1	3348.51
Tl 190.794	-40.9642	ppb	4.8320	11.8	-187.562
V 292.401	-26.6159	ppb	0.4242	1.6	-413.787
Zn 206.200	21.3902	ppb	3.2287	15.1	-19.5372

LRA3 (Samp) **11/4/2014, 6:13:36 PM** **Rack S, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0970u	-0.1027u	-0.0836u
Al 308.215	36.4208	41.9048	41.7351
As 188.980	5.5508	1.8544	-4.5143u
B 249.678	12.4111	11.3143	10.0366
Ba 389.178	0.6117	0.2911	0.4777
Be 313.042	-0.0337u	-0.0397u	-0.0416u
Ca 370.602	35.76	47.77	47.00
Cd 226.502	-0.0087u	-0.0248u	-0.0582u
Co 228.615	0.2020	0.0410	-0.2687u
Cr 267.716	-0.0567u	-0.1989u	-0.1940u

Label	Replicates Concentration		
Cu 324.754	-0.1057u	0.2066	-0.0792u
Fe 271.441	37.2120	46.9965	48.9811
K 766.491	39584.7x	40289.5x	40144.4x
Mg 279.078	36.4128	43.8793	45.7046
Mn 257.610	0.1712	0.2482	0.2182
Mo 202.032	-0.3839u	-0.5986u	-0.4977u
Na 330.237	99459.8	101583	101125
Ni 231.604	0.1654	-0.7790u	-0.6103u
Pb 220.353	-0.9989u	1.8426	1.6250
Sb 206.834	2.5496	2.1518	-1.0448u
Se 196.026	10.6062	9.2804	3.7972
Sn 189.925	0.1864	-0.4206u	-1.7766u
Sr 216.596	0.0035	-0.1834u	-0.1139u
Ti 334.941	0.5167	0.5241	0.5122
Tl 190.794	2.9275	-0.6944u	-0.8245u
V 292.401	0.0623	-0.1662u	0.1545
Zn 206.200	28136.1x	28456.5x	28482.2x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0944b	ppb	0.0098	10.4	-9.7339
Al 308.215	40.0202b	ppb	3.1183	7.8	794.907
As 188.980	0.9636b	ppb	5.0913	528.3	-3.7912
B 249.678	11.2540b	ppb	1.1884	10.6	319.156
Ba 389.178	0.4602b	ppb	0.1610	35.0	-59.7289
Be 313.042	-0.0383b	ppb	0.0041	10.8	-313.410
Ca 370.602	43.51b	ppb	6.720	15.4	168.0
Cd 226.502	-0.0306b	ppb	0.0253	82.7	24.5439
Co 228.615	-0.0086b	ppb	0.2392	2790.3	0.9414
Cr 267.716	-0.1499b	ppb	0.0807	53.9	37.7125
Cu 324.754	0.0073b	ppb	0.1731	2383.4	244.568
Fe 271.441	44.3966b	ppb	6.3006	14.2	94.6061
K 766.491	40006.2xb	ppb	372.176	0.9	1786659
Mg 279.078	41.9989b	ppb	4.9230	11.7	140.594
Mn 257.610	0.2126b	ppb	0.0388	18.3	150.420
Mo 202.032	-0.4934b	ppb	0.1074	21.8	5.1806
Na 330.237	100722b	ppb	1117.16	1.1	4250.47
Ni 231.604	-0.4080b	ppb	0.5037	123.5	-6.3363
Pb 220.353	0.8229b	ppb	1.5814	192.2	8.7424
Sb 206.834	1.2188b	ppb	1.9704	161.7	-2.3553
Se 196.026	7.8946b	ppb	3.6098	45.7	6.0556
Sn 189.925	-0.6703b	ppb	1.0050	149.9	-5.1290
Sr 216.596	-0.0979b	ppb	0.0945	96.5	7.0737
Ti 334.941	0.5176b	ppb	0.0060	1.2	191.417
Tl 190.794	0.4695b	ppb	2.1297	453.6	-6.6656
V 292.401	0.0168b	ppb	0.1651	980.8	-13.0608
Zn 206.200	28358.3xb	ppb	192.823	0.7	34524.0

Cont Calib Verif (CCV) **11/4/2014, 6:32:06 PM** **Rack 1, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	508.180	506.570	507.671
Al 308.215	4862.08	4887.84	4853.28
As 188.980	497.209	488.434	496.490

Label	Replicates Concentration		
B 249.678	485.501	492.137	488.120
Ba 389.178	4956.05	4976.45	4957.38
Be 313.042	493.576	496.957	496.324
Ca 370.602	4982	4990	4969
Cd 226.502	499.650	501.441	497.558
Co 228.615	502.477	503.406	500.912
Cr 267.716	5086.75	5104.14	5080.29
Cu 324.754	5129.58	5096.07	5078.12
Fe 271.441	4937.67	4961.16	4949.48
K 766.491	10399.5	10432.6	10415.9
Mg 279.078	4910.03	4944.35	4899.56
Mn 257.610	5034.47	5056.86	5024.04
Mo 202.032	492.408	495.175	491.370
Na 330.237	7429.96	7493.21	7464.93
Ni 231.604	2491.51	2493.63	2466.89
Pb 220.353	508.835	503.139	500.123
Sb 206.834	961.070	971.190	969.795
Se 196.026	4994.55	5022.52	4965.53
Sn 189.925	4979.39	4975.50	4968.04
Sr 216.596	2457.69	2469.25	2456.52
Ti 334.941	491.260	494.249	491.376
Tl 190.794	5055.90	5074.46	5062.02
V 292.401	4945.23	4959.93	4932.19
Zn 206.200	2483.48	2501.04	2483.72

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	507.474	ppb	0.8231	0.2	44690.7	101.49471
Al 308.215	4867.73	ppb	17.9646	0.4	37077.2	97.35463
As 188.980	494.044	ppb	4.8720	1.0	317.158	98.80885
B 249.678	488.586	ppb	3.3427	0.7	8559.12	97.71716
Ba 389.178	4963.29	ppb	11.4110	0.2	123465	99.26589
Be 313.042	495.619	ppb	1.7976	0.4	1024915	99.12383
Ca 370.602	4980	ppb	10.29	0.2	15347	99.60632
Cd 226.502	499.550	ppb	1.9431	0.4	24402.9	99.90990
Co 228.615	502.265	ppb	1.2603	0.3	6569.82	100.45298
Cr 267.716	5090.40	ppb	12.3316	0.2	306901	101.80790
Cu 324.754	5101.25	ppb	26.1187	0.5	401004	102.02508
Fe 271.441	4949.44	ppb	11.7454	0.2	8873.64	98.98872
K 766.491	10416.0	ppb	16.5578	0.2	465371	104.16022
Mg 279.078	4917.98	ppb	23.4281	0.5	14072.1	98.35955
Mn 257.610	5038.46	ppb	16.7661	0.3	1287172	100.76910
Mo 202.032	492.984	ppb	1.9669	0.4	3804.71	98.59689
Na 330.237	7462.70	ppb	31.6855	0.4	334.360	99.50269
Ni 231.604	2484.01	ppb	14.8618	0.6	8419.71	99.36032
Pb 220.353	504.032	ppb	4.4237	0.9	879.275	100.80650
Sb 206.834	967.352	ppb	5.4842	0.6	1544.70	96.73516
Se 196.026	4994.20	ppb	28.4962	0.6	2386.68	99.88400
Sn 189.925	4974.31	ppb	5.7725	0.1	4051.87	99.48621
Sr 216.596	2461.15	ppb	7.0365	0.3	34603.7	98.44614
Ti 334.941	492.295	ppb	1.6930	0.3	166853	98.45901
Tl 190.794	5064.12	ppb	9.4567	0.2	5977.49	101.28248
V 292.401	4945.78	ppb	13.8783	0.3	142047	98.91563
Zn 206.200	2489.41	ppb	10.0691	0.4	3013.95	99.57645

Cont Calib Blank (CCB) **11/4/2014, 6:36:20 PM** **Rack 1, Tube 2**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0862u	-0.0962u	-0.0458u
Al 308.215	0.2767	-0.9843u	2.1449
As 188.980	-2.4165u	-0.2568u	-0.2773u
B 249.678	3.5901	2.4553	2.4530
Ba 389.178	0.3779	0.8163	0.8235
Be 313.042	-0.0189u	-0.0159u	-0.0121u
Ca 370.602	3.355	0.4291	3.394
Cd 226.502	-0.0512u	0.0345	0.0933
Co 228.615	0.3477	-0.0441u	-0.5170u
Cr 267.716	0.0438	0.0903	0.2414
Cu 324.754	0.3896	0.3198	0.2618
Fe 271.441	0.2805	-1.9734u	0.7080
K 766.491	-0.2537u	0.2399	0.8295
Mg 279.078	3.2283	0.7444	2.9275
Mn 257.610	0.2264	0.2747	0.3439
Mo 202.032	0.0001	-0.1158u	0.0132
Na 330.237	54.7758	-187.147u	-248.961u
Ni 231.604	0.5656	0.1933	0.1214
Pb 220.353	0.6811	0.0549	2.4912
Sb 206.834	5.4695	2.2570	2.7176
Se 196.026	4.3537	4.4311	4.2250
Sn 189.925	0.4031	1.0022	0.0969
Sr 216.596	0.0648	0.0345	-0.1144u
Ti 334.941	0.0368	0.0961	0.0742
Tl 190.794	1.1724	-1.0466u	0.0362
V 292.401	0.3744	0.1118	0.4564
Zn 206.200	-0.1872u	-0.1726u	-0.2465u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0760	ppb	0.0267	35.1	-8.0985	-0.07603
Al 308.215	0.4791	ppb	1.5744	328.6	502.453	0.47911
As 188.980	-0.9835	ppb	1.2410	126.2	-5.0593	-0.98353
B 249.678	2.8328	ppb	0.6559	23.2	173.835	2.83281
Ba 389.178	0.6726	ppb	0.2552	37.9	-54.5279	0.67258
Be 313.042	-0.0156	ppb	0.0034	21.7	-254.237	-0.01565
Ca 370.602	2.393	ppb	1.701	71.1	44.80	2.39275
Cd 226.502	0.0256	ppb	0.0726	284.3	27.7767	0.02555
Co 228.615	-0.0711	ppb	0.4330	608.6	0.0638	-0.07114
Cr 267.716	0.1252	ppb	0.1033	82.5	52.7478	0.12520
Cu 324.754	0.3237	ppb	0.0640	19.8	269.425	0.32371
Fe 271.441	-0.3283	ppb	1.4406	438.8	15.7016	-0.32828
K 766.491	0.2719	ppb	0.5423	199.5	277.827	0.27192
Mg 279.078	2.3001	ppb	1.3556	58.9	26.2690	2.30005
Mn 257.610	0.2817	ppb	0.0591	21.0	168.140	0.28166
Mo 202.032	-0.0342	ppb	0.0710	207.8	8.7240	-0.03418
Na 330.237	-127.111	ppb	160.522	126.3	27.2040	-127.11079
Ni 231.604	0.2934	ppb	0.2385	81.3	-3.9966	0.29340
Pb 220.353	1.0757	ppb	1.2651	117.6	9.1746	1.07573
Sb 206.834	3.4814	ppb	1.7371	49.9	1.1309	3.48137
Se 196.026	4.3366	ppb	0.1041	2.4	4.3571	4.33659
Sn 189.925	0.5008	ppb	0.4605	92.0	-4.2074	0.50075
Sr 216.596	-0.0051	ppb	0.0959	1899.0	8.2586	-0.00505

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.0691	ppb	0.0300	43.4	48.3343	0.06906
Tl 190.794	0.0540	ppb	1.1096	2054.1	-7.1504	0.05402
V 292.401	0.3142	ppb	0.1800	57.3	-3.8277	0.31419
Zn 206.200	-0.2021	ppb	0.0391	19.4	1.0737	-0.20208

mb 680-356554/1-a (Samp) **11/4/2014, 6:40:35 PM** **Rack 1, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates		Concentration
Ag 328.068	-0.4231u	0.0157	-0.2160u
Al 308.215	0.6403	2.1028	2.2508
As 188.980	-1.9231u	0.8031	-2.6171u
B 249.678	-1.1677u	-0.9009u	-1.0603u
Ba 389.178	0.3160	-0.0610u	-0.0800u
Be 313.042	-0.0350u	-0.0402u	-0.0441u
Ca 370.602	7.459	6.843	9.022
Cd 226.502	-0.0013u	0.0465	0.0569
Co 228.615	-0.2457u	-0.5645u	0.0151
Cr 267.716	0.0250	0.0598	0.1439
Cu 324.754	-0.1887u	0.0191	-0.1914u
Fe 271.441	1.1039	1.9356	0.6633
K 766.491	-0.0202u	-0.0128u	0.0035
Mg 279.078	2.5652	1.7486	1.7351
Mn 257.610	-0.0626u	-0.0375u	-0.0227u
Mo 202.032	-0.4106u	-0.3790u	-0.4470u
Na 330.237	32.5244	-17.1756u	137.065
Ni 231.604	0.5655	-0.3206u	-0.4665u
Pb 220.353	-0.6975u	2.7260	1.1930
Sb 206.834	-0.1587u	1.6871	-3.2551u
Se 196.026	0.9157	5.6603	0.7725
Sn 189.925	-3.1416u	-1.0453u	-1.2161u
Sr 216.596	-0.2074u	-0.5160u	-0.0131u
Ti 334.941	-0.0326u	-0.0745u	-0.1069u
Tl 190.794	-2.3432u	-2.1684u	-1.0183u
V 292.401	0.0155	-0.2026u	-0.2429u
Zn 206.200	3.1991	3.7916	3.2529

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2078	ppb	0.2195	105.6	-19.7241
Al 308.215	1.6646	ppb	0.8902	53.5	511.162
As 188.980	-1.2457	ppb	1.8079	145.1	-5.2299
B 249.678	-1.0430	ppb	0.1342	12.9	106.901
Ba 389.178	0.0583	ppb	0.2234	382.9	-69.8115
Be 313.042	-0.0398	ppb	0.0046	11.5	-304.061
Ca 370.602	7.774	ppb	1.123	14.4	60.83
Cd 226.502	0.0340	ppb	0.0311	91.2	28.2089
Co 228.615	-0.2650	ppb	0.2903	109.5	-2.4592
Cr 267.716	0.0762	ppb	0.0611	80.1	49.8023
Cu 324.754	-0.1203	ppb	0.1208	100.4	234.528
Fe 271.441	1.2343	ppb	0.6461	52.3	18.4199
K 766.491	-0.0098	ppb	0.0121	123.1	265.245
Mg 279.078	2.0163	ppb	0.4754	23.6	25.4575
Mn 257.610	-0.0409	ppb	0.0201	49.2	85.7607
Mo 202.032	-0.4122	ppb	0.0340	8.2	5.8089

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	50.8046	ppb	78.7283	155.0	35.8407
Ni 231.604	-0.0739	ppb	0.5585	756.2	-5.2412
Pb 220.353	1.0738	ppb	1.7148	159.7	9.1722
Sb 206.834	-0.5756	ppb	2.4973	433.9	-5.1263
Se 196.026	2.4495	ppb	2.7816	113.6	3.4567
Sn 189.925	-1.8010	ppb	1.1642	64.6	-6.0844
Sr 216.596	-0.2455	ppb	0.2536	103.3	4.8994
Ti 334.941	-0.0713	ppb	0.0372	52.1	0.7582
Tl 190.794	-1.8433	ppb	0.7198	39.0	-9.3895
V 292.401	-0.1433	ppb	0.1390	97.0	-16.9286
Zn 206.200	3.4145	ppb	0.3277	9.6	5.4766

lcs 680-356554/2-a (Samp) **11/4/2014, 6:44:50 PM** **Rack 1, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	103.307	102.474	106.358
Al 308.215	9787.35	9722.64	10051.8
As 188.980	199.210	196.813	202.104
B 249.678	380.875	380.804	394.902
Ba 389.178	192.270	191.707	198.777
Be 313.042	100.000	99.4697	102.938
Ca 370.602	9591	9519	9848
Cd 226.502	98.0095	97.4442	100.827
Co 228.615	97.3387	97.0669	100.376
Cr 267.716	200.330	199.334	205.825
Cu 324.754	202.004	200.845	208.210
Fe 271.441	9633.59	9576.82	9911.51
K 766.491	11454.4	11422.7	11771.5
Mg 279.078	9332.37	9254.61	9582.85
Mn 257.610	1009.89	1003.95	1040.42
Mo 202.032	193.668	191.523	199.465
Na 330.237	138887x	138406x	142820x
Ni 231.604	193.997	193.506	196.745
Pb 220.353	970.122	963.828	991.869
Sb 206.834	101.115	96.3432	102.708
Se 196.026	198.880	193.980	202.349
Sn 189.925	377.831	379.231	388.230
Sr 216.596	192.684	189.954	196.944
Ti 334.941	195.425	194.426	201.450
Tl 190.794	74.4920	75.6429	78.8641
V 292.401	197.243	195.569	202.181
Zn 206.200	194.902	194.404	206.338

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	104.046b	ppb	2.0445	2.0	9168.83
Al 308.215	9853.91b	ppb	174.362	1.8	73429.7
As 188.980	199.375b	ppb	2.6493	1.3	125.387
B 249.678	385.527b	ppb	8.1193	2.1	6756.02
Ba 389.178	194.251b	ppb	3.9292	2.0	4784.76
Be 313.042	100.803b	ppb	1.8682	1.9	208197
Ca 370.602	9652b	ppb	172.9	1.8	29038
Cd 226.502	98.7602b	ppb	1.8119	1.8	4884.61
Co 228.615	98.2605b	ppb	1.8370	1.9	1284.50

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	201.830b	ppb	3.4958	1.7	12224.0
Cu 324.754	203.686b	ppb	3.9604	1.9	16257.8
Fe 271.441	9707.31b	ppb	179.107	1.8	17159.4
K 766.491	11549.5b	ppb	192.903	1.7	515986
Mg 279.078	9389.94b	ppb	171.530	1.8	27038.3
Mn 257.610	1018.09b	ppb	19.5695	1.9	260272
Mo 202.032	194.885b	ppb	4.1088	2.1	1511.26
Na 330.237	140038xb	ppb	2421.64	1.7	6896.29
Ni 231.604	194.749b	ppb	1.7456	0.9	656.232
Pb 220.353	975.273b	ppb	14.7130	1.5	1685.79
Sb 206.834	100.055b	ppb	3.3121	3.3	149.567
Se 196.026	198.403b	ppb	4.2046	2.1	97.3413
Sn 189.925	381.764b	ppb	5.6436	1.5	306.757
Sr 216.596	193.194b	ppb	3.5227	1.8	2738.80
Ti 334.941	197.100b	ppb	3.7995	1.9	66821.9
Tl 190.794	76.3330b	ppb	2.2663	3.0	81.9386
V 292.401	198.331b	ppb	3.4375	1.7	5658.51
Zn 206.200	198.548b	ppb	6.7508	3.4	241.822

lb 680-356200/1-b (Samp) **11/4/2014, 6:49:06 PM** **Rack 1, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0153	-0.3383u	-0.2054u
Al 308.215	3.4428	4.2106	3.6843
As 188.980	-3.1540u	0.4249	-2.2942u
B 249.678	1.8693	1.3474	0.5711
Ba 389.178	-0.1337u	0.3321	0.5121
Be 313.042	-0.0304u	-0.0330u	-0.0247u
Ca 370.602	13.59	15.22	11.40
Cd 226.502	-0.0844u	-0.0163u	-0.1030u
Co 228.615	0.4235	-0.1446u	-0.2279u
Cr 267.716	0.0517	-0.0726u	0.1454
Cu 324.754	-0.2089u	0.2643	-0.0589u
Fe 271.441	0.2007	1.4761	-2.3874u
K 766.491	26.5748	26.8367	26.8401
Mg 279.078	3.3774	3.0344	6.8773
Mn 257.610	0.1209	0.1611	0.1751
Mo 202.032	-0.9178u	-0.4312u	-0.2101u
Na 330.237	129622x	127953x	128278x
Ni 231.604	1.3919	-0.3297u	0.0195
Pb 220.353	-0.2897u	-1.0259u	1.0577
Sb 206.834	0.6222	3.0828	1.2558
Se 196.026	4.0383	-4.5014u	1.4394
Sn 189.925	-1.1460u	-1.3167u	-3.8761u
Sr 216.596	-0.3006u	0.0031	-0.3444u
Ti 334.941	-0.1127u	-0.1418u	-0.1036u
Tl 190.794	-1.9498u	-1.1759u	-4.3142u
V 292.401	-0.2832u	-0.1129u	-0.0439u
Zn 206.200	4.7632	3.0944	4.9823

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1761b	ppb	0.1786	101.4	-16.9234
Al 308.215	3.7792b	ppb	0.3926	10.4	526.773

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-1.6745b	ppb	1.8682	111.6	-5.5091
B 249.678	1.2626b	ppb	0.6533	51.7	146.711
Ba 389.178	0.2368b	ppb	0.3333	140.7	-65.3712
Be 313.042	-0.0294b	ppb	0.0043	14.5	-299.037
Ca 370.602	13.40b	ppb	1.919	14.3	77.76
Cd 226.502	-0.0679b	ppb	0.0456	67.2	22.2770
Co 228.615	0.0170b	ppb	0.3545	2087.1	1.2244
Cr 267.716	0.0415b	ppb	0.1093	263.4	50.6067
Cu 324.754	-0.0011b	ppb	0.2418	21231.7	243.893
Fe 271.441	-0.2369b	ppb	1.9686	831.1	15.8666
K 766.491	26.7505b	ppb	0.1522	0.6	1460.17
Mg 279.078	4.4297b	ppb	2.1266	48.0	32.4041
Mn 257.610	0.1524b	ppb	0.0281	18.5	134.353
Mo 202.032	-0.5197b	ppb	0.3620	69.7	4.9800
Na 330.237	128618xb	ppb	884.691	0.7	6343.66
Ni 231.604	0.3606b	ppb	0.9100	252.4	-3.7689
Pb 220.353	-0.0860b	ppb	1.0567	1229.2	7.1766
Sb 206.834	1.6536b	ppb	1.2776	77.3	-1.6844
Se 196.026	0.3254b	ppb	4.3775	1345.1	2.4431
Sn 189.925	-2.1129b	ppb	1.5293	72.4	-6.2937
Sr 216.596	-0.2140b	ppb	0.1892	88.4	5.3335
Ti 334.941	-0.1194b	ppb	0.0200	16.7	-27.7327
Tl 190.794	-2.4800b	ppb	1.6349	65.9	-10.1391
V 292.401	-0.1467b	ppb	0.1232	84.0	-18.0997
Zn 206.200	4.2800b	ppb	1.0325	24.1	6.5302

680-106788-a-4-b (Samp) **11/4/2014, 6:53:22 PM** **Rack 1, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1329u	-0.1254u	-0.0917u
Al 308.215	-4.9124	-2.2921	-2.4445
As 188.980	-1.8853u	2.2254	-1.3715u
B 249.678	46.9644	46.0342	46.0720
Ba 389.178	35.8417	35.6988	35.7963
Be 313.042	-0.0346u	-0.0353u	-0.0361u
Ca 370.602	2567	2571	2574
Cd 226.502	0.0012	0.1234	-0.0408
Co 228.615	3.1414	3.6768	3.5673
Cr 267.716	0.0297	-0.0336	-0.1867
Cu 324.754	-0.1432	-0.2558u	0.0353
Fe 271.441	29273.0	29365.0	29280.4
K 766.491	183.495	184.575	184.390
Mg 279.078	258.209	259.582	256.769
Mn 257.610	254.777	255.651	255.031
Mo 202.032	-0.4329u	-0.6849u	-0.6579u
Na 330.237	123028x	123364x	123674x
Ni 231.604	34.3546	34.7070	35.1239
Pb 220.353	410.929	410.976	407.289
Sb 206.834	0.9846	-2.1550u	1.1184
Se 196.026	3.1102	6.3794	-0.0802
Sn 189.925	-0.3167u	-4.0551u	-2.6007u
Sr 216.596	14.1432	14.1883	13.9209
Ti 334.941	-0.1457u	-0.1184u	-0.1635u

Label	Replicates Concentration		
Tl 190.794	0.1834u	-1.4879u	-2.1234u
V 292.401	-0.9624u	-0.8284u	-1.0562u
Zn 206.200	569.346	565.164	563.782

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1167b	ppb	0.0219	18.8	-16.0874
Al 308.215	-3.2163b	ppb	1.4708	45.7	529.601
As 188.980	-0.3438b	ppb	2.2398	651.5	-4.8302
B 249.678	46.3569b	ppb	0.5265	1.1	854.758
Ba 389.178	35.7789b	ppb	0.0730	0.2	837.418
Be 313.042	-0.0353b	ppb	0.0007	2.1	-310.855
Ca 370.602	2570b	ppb	3.549	0.1	7396
Cd 226.502	0.0279b	ppb	0.0853	305.3	160.448
Co 228.615	3.4618b	ppb	0.2829	8.2	48.5013
Cr 267.716	-0.0635b	ppb	0.1113	175.2	61.1324
Cu 324.754	-0.1212b	ppb	0.1468	121.1	248.023
Fe 271.441	29306.2b	ppb	51.1139	0.2	51723.8
K 766.491	184.153b	ppb	0.5776	0.3	8488.67
Mg 279.078	258.187b	ppb	1.4068	0.5	757.683
Mn 257.610	255.153b	ppb	0.4494	0.2	65376.6
Mo 202.032	-0.5919b	ppb	0.1383	23.4	2.8671
Na 330.237	123355xb	ppb	322.865	0.3	6064.06
Ni 231.604	34.7285b	ppb	0.3851	1.1	115.532
Pb 220.353	409.731b	ppb	2.1151	0.5	714.448
Sb 206.834	-0.0174b	ppb	1.8525	10672.6	-3.2346
Se 196.026	3.1365b	ppb	3.2299	103.0	4.2579
Sn 189.925	-2.3242b	ppb	1.8845	81.1	-6.4677
Sr 216.596	14.0841b	ppb	0.1432	1.0	247.454
Ti 334.941	-0.1425b	ppb	0.0227	15.9	-30.5460
Tl 190.794	-1.1426b	ppb	1.1915	104.3	-12.6561
V 292.401	-0.9490b	ppb	0.1145	12.1	-29.5057
Zn 206.200	566.097b	ppb	2.8974	0.5	688.964

680-106788-a-4-bSD^5 (Samp) **11/4/2014, 6:57:37 PM** **Rack 1, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2944u	-0.2523u	-0.0918u
Al 308.215	-0.7216	-1.5597u	0.7057
As 188.980	2.9463	-1.1642u	0.4431
B 249.678	6.8409	6.7865	6.6909
Ba 389.178	7.4234	6.8677	7.3499
Be 313.042	-0.0390u	-0.0413u	-0.0372u
Ca 370.602	524.3	515.4	512.8
Cd 226.502	-0.0519	-0.0708	0.0683
Co 228.615	0.8920	0.3682	0.8609
Cr 267.716	-0.1122u	-0.0483	-0.1365u
Cu 324.754	0.2321	-0.0447u	-0.2445u
Fe 271.441	5916.74	5861.52	5879.26
K 766.491	33.5099	33.1554	33.1120
Mg 279.078	51.9734	55.4424	54.4006
Mn 257.610	51.3071	50.7263	50.8911
Mo 202.032	-0.7779u	-0.7233u	0.0497
Na 330.237	23724.9	23533.5	23634.8

Label	Replicates Concentration		
Ni 231.604	7.4860	7.7102	7.2306
Pb 220.353	83.0477	85.1447	82.9905
Sb 206.834	0.6540	-2.2743u	-0.1040
Se 196.026	-5.8373u	0.0387	-2.0700u
Sn 189.925	-1.5805u	1.2491	-0.6635u
Sr 216.596	3.0557	2.9310	2.3672
Ti 334.941	-0.1574u	-0.2059u	-0.2246u
Tl 190.794	0.0671u	-1.4632u	1.3636
V 292.401	-0.3292u	-0.3749u	-0.3290u
Zn 206.200	113.710	113.901	115.123

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2128	ppb	0.1069	50.2	-21.0541
Al 308.215	-0.5252	ppb	1.1454	218.1	505.907
As 188.980	0.7417	ppb	2.0714	279.3	-3.9735
B 249.678	6.7728	ppb	0.0759	1.1	227.693
Ba 389.178	7.2137	ppb	0.3019	4.2	111.928
Be 313.042	-0.0391	ppb	0.0020	5.2	-305.822
Ca 370.602	517.5	ppb	6.024	1.2	1519
Cd 226.502	-0.0181	ppb	0.0754	415.9	52.2873
Co 228.615	0.7070	ppb	0.2939	41.6	10.6933
Cr 267.716	-0.0990	ppb	0.0456	46.0	43.1738
Cu 324.754	-0.0190	ppb	0.2393	1258.0	245.211
Fe 271.441	5885.84	ppb	28.1937	0.5	10401.2
K 766.491	33.2591	ppb	0.2183	0.7	1750.80
Mg 279.078	53.9388	ppb	1.7800	3.3	173.886
Mn 257.610	50.9748	ppb	0.2993	0.6	13138.1
Mo 202.032	-0.4838	ppb	0.4629	95.7	4.9440
Na 330.237	23631.1	ppb	95.7206	0.4	1188.51
Ni 231.604	7.4756	ppb	0.2399	3.2	20.9128
Pb 220.353	83.7276	ppb	1.2275	1.5	151.816
Sb 206.834	-0.5748	ppb	1.5198	264.4	-4.9185
Se 196.026	-2.6228	ppb	2.9767	113.5	1.1312
Sn 189.925	-0.3316	ppb	1.4437	435.4	-4.8779
Sr 216.596	2.7847	ppb	0.3668	13.2	55.7564
Ti 334.941	-0.1960	ppb	0.0347	17.7	-42.7900
Tl 190.794	-0.0108	ppb	1.4150	13059.7	-8.0489
V 292.401	-0.3444	ppb	0.0264	7.7	-20.5632
Zn 206.200	114.245	ppb	0.7670	0.7	140.096

680-106788-a-4-bPDS (Samp) **11/4/2014, 7:01:53 PM** **Rack 1, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	92.1084	91.9721	91.9372
Al 308.215	942.886	942.983	942.162
As 188.980	93.6369	95.0356	97.6882
B 249.678	233.779	235.345	235.307
Ba 389.178	116.209	115.458	115.380
Be 313.042	95.8663	95.5690	95.6784
Ca 370.602	12092	12125	12153
Cd 226.502	94.6345	94.7247	94.8403
Co 228.615	98.3256	99.3497	100.088
Cr 267.716	99.8788	99.7502	99.5307

Label	Replicates Concentration		
Cu 324.754	99.6732	99.8752	99.5117
Fe 271.441	38650.9	38535.0	38532.1
K 766.491	11477.4	11509.3	11451.4
Mg 279.078	9385.92	9378.36	9369.62
Mn 257.610	1251.41	1247.80	1248.60
Mo 202.032	95.0298	95.2796	95.1447
Na 330.237	133424x	133073x	132238x
Ni 231.604	129.326	127.132	130.660
Pb 220.353	498.203	502.497	498.731
Sb 206.834	91.5207	92.3712	95.5886
Se 196.026	104.593	94.4109	94.4773
Sn 189.925	88.5356	90.9397	91.8037
Sr 216.596	108.357	107.556	107.222
Ti 334.941	95.7982	95.4920	95.6495
Tl 190.794	18.0051	15.0844	17.0020
V 292.401	95.1431	95.3321	95.2959
Zn 206.200	652.899	654.167	652.895

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	92.0059b	ppb	0.0905	0.1	8106.12
Al 308.215	942.677b	ppb	0.4485	0.0	7558.64
As 188.980	95.4536b	ppb	2.0577	2.2	57.4714
B 249.678	234.810b	ppb	0.8931	0.4	4086.01
Ba 389.178	115.683b	ppb	0.4578	0.4	2846.46
Be 313.042	95.7046b	ppb	0.1504	0.2	197665
Ca 370.602	12123b	ppb	30.96	0.3	36054
Cd 226.502	94.7331b	ppb	0.1032	0.1	4819.82
Co 228.615	99.2543b	ppb	0.8849	0.9	1300.35
Cr 267.716	99.7199b	ppb	0.1760	0.2	6085.39
Cu 324.754	99.6867b	ppb	0.1822	0.2	8097.04
Fe 271.441	38572.7b	ppb	67.7541	0.2	68087.6
K 766.491	11479.4b	ppb	28.9850	0.3	512853
Mg 279.078	9377.97b	ppb	8.1560	0.1	27002.3
Mn 257.610	1249.27b	ppb	1.8972	0.2	319427
Mo 202.032	95.1514b	ppb	0.1250	0.1	740.663
Na 330.237	132912xb	ppb	609.422	0.5	6528.24
Ni 231.604	129.039b	ppb	1.7812	1.4	436.037
Pb 220.353	499.811b	ppb	2.3419	0.5	870.171
Sb 206.834	93.1602b	ppb	2.1457	2.3	140.491
Se 196.026	97.8270b	ppb	5.8595	6.0	49.8103
Sn 189.925	90.4263b	ppb	1.6935	1.9	69.1724
Sr 216.596	107.712b	ppb	0.5834	0.5	1579.21
Ti 334.941	95.6465b	ppb	0.1531	0.2	32447.5
Tl 190.794	16.6972b	ppb	1.4840	8.9	7.7224
V 292.401	95.2570b	ppb	0.1003	0.1	2723.65
Zn 206.200	653.321b	ppb	0.7331	0.1	794.320

680-106788-a-4-c m (Samp) **11/4/2014, 7:06:10 PM** **Rack 1, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	54.8286	54.6179	54.8748
Al 308.215	1494.25	1489.28	1488.48
As 188.980	149.700	149.415	148.693

Label	Replicates Concentration		
B 249.678	334.293	332.906	333.968
Ba 389.178	155.631	155.396	155.217
Be 313.042	151.484	150.988	150.979
Ca 370.602	17243	17164	17168
Cd 226.502	147.292	147.026	146.687
Co 228.615	154.552	153.931	154.604
Cr 267.716	155.629	155.198	155.188
Cu 324.754	157.950	156.575	157.390
Fe 271.441	38060.0	37901.4	37896.0
K 766.491	16864.8	16762.6	16734.5
Mg 279.078	14623.8	14572.0	14558.4
Mn 257.610	1776.84	1770.66	1771.08
Mo 202.032	150.102	148.529	149.012
Na 330.237	110983x	110488x	111767x
Ni 231.604	177.339	176.671	177.735
Pb 220.353	467.042	468.376	463.603
Sb 206.834	147.535	146.733	146.183
Se 196.026	155.567	151.378	149.620
Sn 189.925	151.047	146.556	141.914
Sr 216.596	159.604	159.705	158.948
Ti 334.941	151.640	151.021	151.099
Tl 190.794	30.5368	26.1887	26.7713
V 292.401	150.996	150.730	151.332
Zn 206.200	589.343	586.812	584.327

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.7738b	ppb	0.1369	0.2	4824.75
Al 308.215	1490.67b	ppb	3.1237	0.2	11619.6
As 188.980	149.269b	ppb	0.5193	0.3	92.5076
B 249.678	333.723b	ppb	0.7256	0.2	5795.19
Ba 389.178	155.415b	ppb	0.2078	0.1	3843.35
Be 313.042	151.150b	ppb	0.2891	0.2	312323
Ca 370.602	17192b	ppb	44.31	0.3	51331
Cd 226.502	147.002b	ppb	0.3029	0.2	7365.42
Co 228.615	154.362b	ppb	0.3745	0.2	2020.10
Cr 267.716	155.338b	ppb	0.2519	0.2	9439.38
Cu 324.754	157.305b	ppb	0.6912	0.4	12625.4
Fe 271.441	37952.5b	ppb	93.1798	0.2	67001.5
K 766.491	16787.3b	ppb	68.5718	0.4	749868
Mg 279.078	14584.7b	ppb	34.5059	0.2	41987.0
Mn 257.610	1772.86b	ppb	3.4522	0.2	453217
Mo 202.032	149.214b	ppb	0.8056	0.5	1157.58
Na 330.237	111079xb	ppb	644.802	0.6	5458.81
Ni 231.604	177.248b	ppb	0.5375	0.3	599.354
Pb 220.353	466.340b	ppb	2.4628	0.5	812.570
Sb 206.834	146.817b	ppb	0.6799	0.5	223.043
Se 196.026	152.188b	ppb	3.0551	2.0	75.8665
Sn 189.925	146.506b	ppb	4.5670	3.1	114.897
Sr 216.596	159.419b	ppb	0.4106	0.3	2306.74
Ti 334.941	151.253b	ppb	0.3374	0.2	51302.9
Tl 190.794	27.8323b	ppb	2.3603	8.5	21.3167
V 292.401	151.019b	ppb	0.3015	0.2	4317.63
Zn 206.200	586.827b	ppb	2.5084	0.4	713.211

680-106788-a-4-d msd (Samp) **11/4/2014, 7:10:27 PM** **Rack 1, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	117.547	118.177	118.099
Al 308.215	1524.36	1528.45	1531.56
As 188.980	158.132	153.559	155.259
B 249.678	339.588	341.102	342.566
Ba 389.178	158.013	158.728	158.964
Be 313.042	154.758	155.046	154.815
Ca 370.602	17591	17570	17491
Cd 226.502	150.598	150.675	150.659
Co 228.615	157.094	157.556	156.873
Cr 267.716	160.060	160.563	160.689
Cu 324.754	160.502	161.767	162.115
Fe 271.441	38120.7	38223.3	38188.4
K 766.491	17134.9	17144.6	17199.8
Mg 279.078	14898.6	14919.6	14923.1
Mn 257.610	1809.75	1814.53	1816.40
Mo 202.032	154.040	153.618	153.112
Na 330.237	111184x	110101x	110384x
Ni 231.604	181.168	179.659	180.423
Pb 220.353	465.822	467.471	465.206
Sb 206.834	150.986	153.138	150.862
Se 196.026	156.997	152.614	151.850
Sn 189.925	146.057	145.873	145.915
Sr 216.596	162.220	163.278	163.069
Ti 334.941	155.447	155.803	155.627
Tl 190.794	27.4293	27.9501	28.7775
V 292.401	155.419	155.742	155.278
Zn 206.200	591.780	591.265	585.677

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	117.941b	ppb	0.3437	0.3	10393.8
Al 308.215	1528.12b	ppb	3.6095	0.2	11897.8
As 188.980	155.650b	ppb	2.3111	1.5	96.6600
B 249.678	341.085b	ppb	1.4893	0.4	5921.73
Ba 389.178	158.568b	ppb	0.4952	0.3	3922.54
Be 313.042	154.873b	ppb	0.1525	0.1	320022
Ca 370.602	17551b	ppb	52.87	0.3	52409
Cd 226.502	150.644b	ppb	0.0406	0.0	7544.11
Co 228.615	157.175b	ppb	0.3483	0.2	2056.85
Cr 267.716	160.437b	ppb	0.3326	0.2	9747.06
Cu 324.754	161.461b	ppb	0.8489	0.5	12952.2
Fe 271.441	38177.5b	ppb	52.1795	0.1	67399.0
K 766.491	17159.8b	ppb	35.0118	0.2	766499
Mg 279.078	14913.8b	ppb	13.2582	0.1	42933.9
Mn 257.610	1813.56b	ppb	3.4315	0.2	463618
Mo 202.032	153.590b	ppb	0.4644	0.3	1191.31
Na 330.237	110556xb	ppb	561.487	0.5	5433.06
Ni 231.604	180.417b	ppb	0.7544	0.4	610.114
Pb 220.353	466.166b	ppb	1.1710	0.3	812.291
Sb 206.834	151.662b	ppb	1.2795	0.8	230.520
Se 196.026	153.820b	ppb	2.7777	1.8	76.6586
Sn 189.925	145.948b	ppb	0.0964	0.1	114.442
Sr 216.596	162.856b	ppb	0.5608	0.3	2355.51

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	155.626b	ppb	0.1782	0.1	52785.3
Tl 190.794	28.0523b	ppb	0.6799	2.4	21.5645
V 292.401	155.479b	ppb	0.2380	0.2	4445.17
Zn 206.200	589.574b	ppb	3.3849	0.6	716.523

CRI (Samp) **11/4/2014, 7:14:44 PM** **Rack 1, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.0832	10.2520	10.4020
Al 308.215	189.199	191.901	191.744
As 188.980	17.5412	20.9603	22.5091
B 249.678	98.9871	99.4224	99.0159
Ba 389.178	9.8126	10.4998	9.8374
Be 313.042	4.0048	4.0248	4.0086
Ca 370.602	499.7	500.9	497.5
Cd 226.502	4.8053	4.8129	4.7598
Co 228.615	9.6263	9.6153	9.2414
Cr 267.716	9.9761	10.1067	10.0240
Cu 324.754	20.3194	20.6568	20.3674
Fe 271.441	45.7390	50.8066	51.6734
K 766.491	1051.51	1058.36	1055.70
Mg 279.078	499.583	498.718	493.966
Mn 257.610	10.4526	10.5094	10.5249
Mo 202.032	9.2226	9.3410	9.1224
Na 330.237	911.780	808.741	795.919
Ni 231.604	39.8545	40.5884	40.6772
Pb 220.353	10.5118	9.8337	9.9000
Sb 206.834	19.3543	19.8396	19.9477
Se 196.026	9.6738	21.9975	15.0061
Sn 189.925	47.2495	49.1327	47.5010
Sr 216.596	9.4891	9.6173	9.8952
Ti 334.941	9.6968	9.7725	9.7685
Tl 190.794	24.4165	23.1262	28.1819
V 292.401	10.1333	10.3400	10.4424
Zn 206.200	19.2548	21.0232	20.1311

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.2457	ppb	0.1595	1.6	901.611
Al 308.215	190.948	ppb	1.5166	0.8	1912.87
As 188.980	20.3369	ppb	2.5419	12.5	8.8224
B 249.678	99.1418	ppb	0.2434	0.2	1835.93
Ba 389.178	10.0499	ppb	0.3898	3.9	179.706
Be 313.042	4.0127	ppb	0.0106	0.3	8075.31
Ca 370.602	499.4	ppb	1.755	0.4	1542
Cd 226.502	4.7927	ppb	0.0287	0.6	260.414
Co 228.615	9.4943	ppb	0.2191	2.3	124.979
Cr 267.716	10.0356	ppb	0.0661	0.7	650.178
Cu 324.754	20.4479	ppb	0.1825	0.9	1850.89
Fe 271.441	49.4063	ppb	3.2054	6.5	104.878
K 766.491	1055.19	ppb	3.4539	0.3	47382.9
Mg 279.078	497.422	ppb	3.0244	0.6	1452.02
Mn 257.610	10.4956	ppb	0.0380	0.4	2781.84
Mo 202.032	9.2287	ppb	0.1094	1.2	80.1475

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	838.813	ppb	63.5153	7.6	74.0319
Ni 231.604	40.3733	ppb	0.4515	1.1	131.931
Pb 220.353	10.0818	ppb	0.3739	3.7	24.6587
Sb 206.834	19.7139	ppb	0.3161	1.6	26.1536
Se 196.026	15.5591	ppb	6.1804	39.7	9.7155
Sn 189.925	47.9611	ppb	1.0224	2.1	34.4962
Sr 216.596	9.6672	ppb	0.2076	2.1	143.401
Ti 334.941	9.7459	ppb	0.0426	0.4	3328.37
Tl 190.794	25.2416	ppb	2.6269	10.4	22.5761
V 292.401	10.3052	ppb	0.1574	1.5	281.845
Zn 206.200	20.1364	ppb	0.8842	4.4	25.7962

mb 680-356803/1-b (Samp) **11/4/2014, 7:19:02 PM** **Rack 1, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0510u	-0.2551u	-0.1449u
Al 308.215	0.7798	-0.0872u	0.1169
As 188.980	1.3663	-4.2246u	-1.9275u
B 249.678	-1.5772u	-1.6206u	-1.3953u
Ba 389.178	0.2358	0.0784	0.3910
Be 313.042	-0.0421u	-0.0360u	-0.0374u
Ca 370.602	1.711	7.477	-0.0175u
Cd 226.502	-0.0582u	-0.1275u	-0.0649u
Co 228.615	-0.4951u	-0.1176u	-0.3139u
Cr 267.716	-0.1699u	-0.0980u	-0.1464u
Cu 324.754	-0.3499u	-0.1400u	-0.3022u
Fe 271.441	-0.4572u	-0.1120u	2.7856
K 766.491	2.1540	1.9488	2.6814
Mg 279.078	0.5794	1.0530	-1.6493u
Mn 257.610	0.0493	0.0713	0.0409
Mo 202.032	-0.1621u	-0.5819u	-0.3863u
Na 330.237	-35.2964u	-6.9310u	-100.695u
Ni 231.604	0.2337	0.1804	0.1705
Pb 220.353	-0.5537u	-1.5072u	-2.2027u
Sb 206.834	0.6487	-0.0073u	-2.0108u
Se 196.026	-7.5673u	-1.8568u	6.1292
Sn 189.925	0.8910	-2.3943u	-0.0181u
Sr 216.596	-0.3002u	-0.6185u	0.1009
Ti 334.941	-0.2525u	-0.1927u	-0.2082u
Tl 190.794	-2.4419u	-0.0286u	-3.4936u
V 292.401	0.1139	-0.1016u	-0.0925u
Zn 206.200	1.6311	0.5559	2.1463

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1503	ppb	0.1022	68.0	-14.6514
Al 308.215	0.2698	ppb	0.4533	168.0	500.853
As 188.980	-1.5953	ppb	2.8102	176.2	-5.4576
B 249.678	-1.5311	ppb	0.1195	7.8	98.4749
Ba 389.178	0.2351	ppb	0.1563	66.5	-65.4188
Be 313.042	-0.0385	ppb	0.0032	8.3	-301.493
Ca 370.602	3.057	ppb	3.925	128.4	46.65
Cd 226.502	-0.0835	ppb	0.0382	45.8	22.4596
Co 228.615	-0.3089	ppb	0.1888	61.1	-3.0407

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-0.1381	ppb	0.0367	26.6	36.8765
Cu 324.754	-0.2640	ppb	0.1101	41.7	223.239
Fe 271.441	0.7388	ppb	1.7810	241.1	17.5562
K 766.491	2.2614	ppb	0.3779	16.7	366.663
Mg 279.078	-0.0056	ppb	1.4430	25754.1	19.6324
Mn 257.610	0.0538	ppb	0.0157	29.2	109.941
Mo 202.032	-0.3768	ppb	0.2100	55.7	6.0824
Na 330.237	-47.6406	ppb	48.0853	100.9	31.0682
Ni 231.604	0.1949	ppb	0.0340	17.5	-4.3302
Pb 220.353	-1.4212	ppb	0.8279	58.3	4.8791
Sb 206.834	-0.4564	ppb	1.3855	303.5	-4.9466
Se 196.026	-1.0983	ppb	6.8797	626.4	1.7637
Sn 189.925	-0.5071	ppb	1.6963	334.5	-5.0293
Sr 216.596	-0.2726	ppb	0.3605	132.3	4.4871
Ti 334.941	-0.2178	ppb	0.0310	14.2	-48.8615
Tl 190.794	-1.9880	ppb	1.7765	89.4	-9.5595
V 292.401	-0.0268	ppb	0.1219	455.6	-13.5805
Zn 206.200	1.4444	ppb	0.8115	56.2	3.0792

Cont Calib Verif (CCV) **11/4/2014, 7:23:18 PM** **Rack 1, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	514.976	515.698	514.089
Al 308.215	4927.75	4913.50	4917.87
As 188.980	491.447	495.830	496.036
B 249.678	493.378	494.111	496.681
Ba 389.178	5025.46	5009.85	5014.36
Be 313.042	499.936	499.790	500.289
Ca 370.602	4970	4936	4959
Cd 226.502	504.332	503.102	504.347
Co 228.615	506.082	503.903	506.181
Cr 267.716	5142.18	5125.34	5132.85
Cu 324.754	5203.55	5146.30	5148.25
Fe 271.441	4980.08	4968.08	4978.51
K 766.491	10569.6	10500.7	10507.4
Mg 279.078	4959.83	4944.90	4959.04
Mn 257.610	5096.46	5075.13	5092.92
Mo 202.032	497.974	498.235	499.096
Na 330.237	7305.12	7324.59	7348.17
Ni 231.604	2495.97	2506.41	2509.34
Pb 220.353	507.751	509.971	509.024
Sb 206.834	967.076	965.081	973.651
Se 196.026	5097.21	5036.07	5053.46
Sn 189.925	4997.10	5072.17	5037.95
Sr 216.596	2478.50	2482.09	2480.04
Ti 334.941	499.358	497.143	496.799
Tl 190.794	5075.82	5070.23	5100.42
V 292.401	4985.18	4950.56	4968.02
Zn 206.200	2505.49	2511.02	2510.17

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	514.921	ppb	0.8059	0.2	45346.3	102.98413
Al 308.215	4919.71	ppb	7.2977	0.1	37468.2	98.39412

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	494.438	ppb	2.5922	0.5	317.412	98.88753
B 249.678	494.723	ppb	1.7342	0.4	8665.07	98.94466
Ba 389.178	5016.56	ppb	8.0356	0.2	124791	100.33115
Be 313.042	500.005	ppb	0.2565	0.1	1033986	100.00095
Ca 370.602	4955	ppb	17.54	0.4	15276	99.10342
Cd 226.502	503.927	ppb	0.7141	0.1	24616.4	100.78538
Co 228.615	505.388	ppb	1.2874	0.3	6610.70	101.07768
Cr 267.716	5133.46	ppb	8.4352	0.2	309497	102.66918
Cu 324.754	5166.03	ppb	32.5068	0.6	406094	103.32069
Fe 271.441	4975.56	ppb	6.5223	0.1	8920.92	99.51113
K 766.491	10525.9	ppb	37.9782	0.4	470279	105.25925
Mg 279.078	4954.59	ppb	8.3997	0.2	14176.5	99.09180
Mn 257.610	5088.17	ppb	11.4301	0.2	1299871	101.76342
Mo 202.032	498.435	ppb	0.5869	0.1	3846.68	99.68697
Na 330.237	7325.96	ppb	21.5598	0.3	327.094	97.67944
Ni 231.604	2503.91	ppb	7.0288	0.3	8487.21	100.15630
Pb 220.353	508.915	ppb	1.1140	0.2	887.736	101.78304
Sb 206.834	968.603	ppb	4.4845	0.5	1547.41	96.86029
Se 196.026	5062.25	ppb	31.4994	0.6	2419.17	101.24494
Sn 189.925	5035.74	ppb	37.5847	0.7	4101.96	100.71481
Sr 216.596	2480.21	ppb	1.8018	0.1	34871.4	99.20847
Ti 334.941	497.767	ppb	1.3893	0.3	168708	99.55331
Tl 190.794	5082.16	ppb	16.0609	0.3	5998.87	101.64314
V 292.401	4967.92	ppb	17.3142	0.3	142680	99.35844
Zn 206.200	2508.89	ppb	2.9754	0.1	3037.41	100.35578

Cont Calib Blank (CCB) **11/4/2014, 7:27:32 PM** **Rack 1, Tube 14**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2372u	-0.2923u	-0.0968u
Al 308.215	0.5189	-0.0276u	1.8528
As 188.980	-5.2327u	-0.5606u	-2.4760u
B 249.678	2.8289	1.6666	1.8746
Ba 389.178	0.7327	0.6607	1.0312
Be 313.042	-0.0307u	-0.0152u	-0.0239u
Ca 370.602	0.4759	-0.3385u	5.483
Cd 226.502	-0.0335u	-0.1953u	-0.0167u
Co 228.615	-0.4071u	0.4455	0.1521
Cr 267.716	0.2040	0.1721	0.2205
Cu 324.754	0.0898	0.3122	0.1922
Fe 271.441	-2.9401u	-1.9313u	-0.9094u
K 766.491	-0.0426u	0.7963	0.4549
Mg 279.078	0.0057	0.4328	-0.6442u
Mn 257.610	0.1728	0.2146	0.2558
Mo 202.032	0.1130	0.1762	0.2768
Na 330.237	-91.2735u	-99.4223u	28.7093
Ni 231.604	0.2675	0.8524	-0.2650u
Pb 220.353	1.0088	-0.7584u	1.8231
Sb 206.834	2.2217	0.3926	2.0714
Se 196.026	-1.6675u	0.2624	6.0975
Sn 189.925	1.5954	1.3029	-4.3773u
Sr 216.596	-0.0692u	-0.1647u	0.0917
Ti 334.941	0.0155	0.0412	0.0339

Label	Replicates Concentration		
Tl 190.794	-0.5441u	0.2097	2.7427
V 292.401	0.3621	0.3055	0.1272
Zn 206.200	0.2125	0.8143	0.5915

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2087	ppb	0.1008	48.3	-19.7978	-0.20875
Al 308.215	0.7814	ppb	0.9673	123.8	504.685	0.78135
As 188.980	-2.7564	ppb	2.3487	85.2	-6.2138	-2.75643
B 249.678	2.1234	ppb	0.6198	29.2	161.577	2.12338
Ba 389.178	0.8082	ppb	0.1965	24.3	-51.1548	0.80816
Be 313.042	-0.0233	ppb	0.0078	33.4	-270.072	-0.02329
Ca 370.602	1.873	ppb	3.152	168.3	43.22	1.87332
Cd 226.502	-0.0818	ppb	0.0987	120.5	22.5378	-0.08184
Co 228.615	0.0635	ppb	0.4331	682.1	1.8159	0.06349
Cr 267.716	0.1989	ppb	0.0246	12.4	57.1913	0.19889
Cu 324.754	0.1981	ppb	0.1113	56.2	259.563	0.19807
Fe 271.441	-1.9269	ppb	1.0154	52.7	12.9013	-1.92693
K 766.491	0.4029	ppb	0.4218	104.7	283.674	0.40286
Mg 279.078	-0.0686	ppb	0.5424	791.1	19.4475	-0.06855
Mn 257.610	0.2144	ppb	0.0415	19.4	150.944	0.21438
Mo 202.032	0.1887	ppb	0.0826	43.8	10.4430	0.18868
Na 330.237	-53.9955	ppb	71.7402	132.9	30.7870	-53.99551
Ni 231.604	0.2850	ppb	0.5589	196.1	-4.0256	0.28498
Pb 220.353	0.6911	ppb	1.3197	190.9	8.5126	0.69115
Sb 206.834	1.5619	ppb	1.0154	65.0	-1.8355	1.56190
Se 196.026	1.5641	ppb	4.0428	258.5	3.0342	1.56414
Sn 189.925	-0.4930	ppb	3.3671	683.0	-5.0178	-0.49299
Sr 216.596	-0.0474	ppb	0.1296	273.3	7.6615	-0.04740
Ti 334.941	0.0302	ppb	0.0132	43.8	35.1746	0.03022
Tl 190.794	0.8028	ppb	1.7218	214.5	-6.2674	0.80280
V 292.401	0.2649	ppb	0.1226	46.3	-5.2860	0.26492
Zn 206.200	0.5394	ppb	0.3042	56.4	1.9762	0.53944

lcs 680-356803/2-b (Samp) **11/4/2014, 7:31:47 PM** **Rack 1, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.9459	53.7499	54.0754
Al 308.215	4895.55	4983.06	4982.06
As 188.980	102.406	97.9102	102.250
B 249.678	195.763	199.617	201.375
Ba 389.178	99.4913	100.895	101.387
Be 313.042	50.1650	50.9846	51.0490
Ca 370.602	4968	5035	5029
Cd 226.502	50.9514	52.1214	51.9895
Co 228.615	51.2844	51.1797	51.4323
Cr 267.716	103.712	104.986	105.159
Cu 324.754	101.237	104.038	103.396
Fe 271.441	5003.48	5091.19	5089.06
K 766.491	5325.58	5412.24	5426.83
Mg 279.078	4935.06	5019.69	5023.13
Mn 257.610	522.262	529.721	530.414
Mo 202.032	99.0492	100.459	101.321
Na 330.237	4672.21	4872.30	4810.72

Label	Replicates Concentration		
Ni 231.604	101.491	102.809	102.437
Pb 220.353	512.532	513.653	516.830
Sb 206.834	51.6867	53.4592	50.9053
Se 196.026	101.018	106.354	108.061
Sn 189.925	197.768	197.332	199.228
Sr 216.596	99.5097	100.521	100.902
Ti 334.941	100.709	102.289	102.526
Tl 190.794	40.5984	41.4432	45.5671
V 292.401	101.302	102.381	102.295
Zn 206.200	102.052	104.422	104.221

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.5904	ppb	0.5814	1.1	4721.84
Al 308.215	4953.56	ppb	50.2356	1.0	37161.9
As 188.980	100.855	ppb	2.5518	2.5	61.2429
B 249.678	198.918	ppb	2.8707	1.4	3546.19
Ba 389.178	100.591	ppb	0.9836	1.0	2443.60
Be 313.042	50.7329	ppb	0.4928	1.0	104681
Ca 370.602	5011	ppb	36.57	0.7	15091
Cd 226.502	51.6874	ppb	0.6408	1.2	2569.50
Co 228.615	51.2988	ppb	0.1269	0.2	671.088
Cr 267.716	104.619	ppb	0.7905	0.8	6356.61
Cu 324.754	102.891	ppb	1.4673	1.4	8333.38
Fe 271.441	5061.24	ppb	50.0386	1.0	8954.46
K 766.491	5388.22	ppb	54.7361	1.0	240865
Mg 279.078	4992.63	ppb	49.8820	1.0	14385.9
Mn 257.610	527.466	ppb	4.5200	0.9	134894
Mo 202.032	100.276	ppb	1.1469	1.1	781.962
Na 330.237	4785.08	ppb	102.480	2.1	264.128
Ni 231.604	102.246	ppb	0.6795	0.7	342.156
Pb 220.353	514.338	ppb	2.2295	0.4	892.514
Sb 206.834	52.0171	ppb	1.3086	2.5	75.7341
Se 196.026	105.144	ppb	3.6740	3.5	52.6576
Sn 189.925	198.109	ppb	0.9930	0.5	156.941
Sr 216.596	100.311	ppb	0.7198	0.7	1426.06
Ti 334.941	101.842	ppb	0.9877	1.0	34545.6
Tl 190.794	42.5363	ppb	2.6586	6.3	42.4993
V 292.401	101.993	ppb	0.5998	0.6	2904.25
Zn 206.200	103.565	ppb	1.3143	1.3	126.772

680-106739-a-5-d (Samp) **11/4/2014, 7:36:02 PM** **Rack 1, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1226u	-0.1807u	-0.1158u
Al 308.215	3.4505	2.9260	2.6018
As 188.980	-0.9598u	-2.5475u	3.9028
B 249.678	213.786	213.132	214.971
Ba 389.178	150.773	149.553	149.663
Be 313.042	-0.0644u	-0.0677u	-0.0611u
Ca 370.602	78974	78589	79666
Cd 226.502	-0.1035u	-0.1861u	-0.1080u
Co 228.615	0.2350	-0.2204u	-0.4263u
Cr 267.716	0.3362	0.2130	0.1351

Label	Replicates Concentration		
Cu 324.754	0.4344	0.6844	0.6569
Fe 271.441	23.5071	21.3307	23.5923
K 766.491	7086.07	7008.19	7054.66
Mg 279.078	18015.8	17887.3	18060.4
Mn 257.610	0.8455	0.8736	0.8715
Mo 202.032	0.6671	1.2544	0.9102
Na 330.237	27779.6	27565.6	27668.8
Ni 231.604	2.6560	1.6275	0.4717
Pb 220.353	1.6102	0.9611	-1.1145u
Sb 206.834	-1.4508u	1.4117	-1.1700u
Se 196.026	0.8141	7.7053	-3.9402u
Sn 189.925	0.6745	-0.1216u	0.7766
Sr 216.596	414.861	413.250	416.167
Ti 334.941	-0.1610u	-0.1588u	-0.1200u
Tl 190.794	-1.3481u	-2.7754u	0.6440
V 292.401	-0.1208u	-0.3797u	-0.4975u
Zn 206.200	2.0415	1.7995	3.6817

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1397	ppb	0.0357	25.5	-29.0476
Al 308.215	2.9928	ppb	0.4283	14.3	521.107
As 188.980	0.1319	ppb	3.3609	2548.7	-4.3334
B 249.678	213.963	ppb	0.9322	0.4	3817.10
Ba 389.178	149.996	ppb	0.6750	0.4	3689.44
Be 313.042	-0.0644	ppb	0.0033	5.1	-329.100
Ca 370.602	79076	ppb	545.8	0.7	237636
Cd 226.502	-0.1326	ppb	0.0465	35.0	20.2617
Co 228.615	-0.1372	ppb	0.3384	246.5	-0.8272
Cr 267.716	0.2281	ppb	0.1014	44.5	59.6006
Cu 324.754	0.5919	ppb	0.1371	23.2	290.556
Fe 271.441	22.8100	ppb	1.2819	5.6	56.5134
K 766.491	7049.64	ppb	39.1781	0.6	315053
Mg 279.078	17987.8	ppb	89.8851	0.5	51828.0
Mn 257.610	0.8635	ppb	0.0157	1.8	480.323
Mo 202.032	0.9439	ppb	0.2951	31.3	16.2666
Na 330.237	27671.3	ppb	106.995	0.4	1391.01
Ni 231.604	1.5851	ppb	1.0928	68.9	0.3871
Pb 220.353	0.4856	ppb	1.4233	293.1	8.1599
Sb 206.834	-0.4030	ppb	1.5779	391.5	-4.8825
Se 196.026	1.5264	ppb	5.8553	383.6	3.0168
Sn 189.925	0.4432	ppb	0.4918	111.0	-4.2446
Sr 216.596	414.760	ppb	1.4610	0.4	5886.23
Ti 334.941	-0.1466	ppb	0.0231	15.7	9.5563
Tl 190.794	-1.1598	ppb	1.7175	148.1	-8.5895
V 292.401	-0.3327	ppb	0.1927	57.9	-22.6272
Zn 206.200	2.5075	ppb	1.0240	40.8	4.3708

680-106739-a-5-dSD^5 (Samp) **11/4/2014, 7:40:17 PM** **Rack 1, Tube 17**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3394u	-0.1325u	-0.0216u
Al 308.215	1.6148	1.4930	1.4362
As 188.980	-2.1101u	-0.0993u	-3.5053u

Label	Replicates Concentration		
B 249.678	42.0138	42.0458	41.6530
Ba 389.178	29.7652	30.3552	30.4210
Be 313.042	-0.0483u	-0.0482u	-0.0460u
Ca 370.602	15557	15655	15628
Cd 226.502	-0.1011u	-0.0894u	-0.0915u
Co 228.615	-0.3252u	-0.2049u	0.0425
Cr 267.716	-0.0517u	0.1306	-0.1088u
Cu 324.754	-0.2383u	-0.0602u	0.1895
Fe 271.441	3.7795	5.2988	3.3691
K 766.491	1313.76	1318.40	1321.04
Mg 279.078	3538.46	3565.48	3549.71
Mn 257.610	0.1108	0.1077	0.1066
Mo 202.032	0.0562	-0.0799u	-0.0823u
Na 330.237	5136.08	5206.21	5288.93
Ni 231.604	0.6130	1.0209	0.5380
Pb 220.353	1.4231	-0.1021u	-0.4792u
Sb 206.834	3.5194	-0.4256u	-0.2978u
Se 196.026	-2.2154u	2.9971	2.2360
Sn 189.925	-0.0140u	-1.1424u	-2.5528u
Sr 216.596	83.0864	82.6242	83.1117
Ti 334.941	-0.0578u	-0.0523u	-0.0613u
Tl 190.794	-0.3639u	-2.1762u	0.2018
V 292.401	-0.0275u	-0.3873u	0.2042
Zn 206.200	-0.5887u	0.5313	-1.0440u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1645	ppb	0.1613	98.0	-18.9532
Al 308.215	1.5147	ppb	0.0912	6.0	510.071
As 188.980	-1.9049	ppb	1.7122	89.9	-5.6593
B 249.678	41.9042	ppb	0.2182	0.5	848.029
Ba 389.178	30.1805	ppb	0.3612	1.2	685.306
Be 313.042	-0.0475	ppb	0.0013	2.7	-314.980
Ca 370.602	15613	ppb	50.51	0.3	46951
Cd 226.502	-0.0940	ppb	0.0062	6.6	21.9760
Co 228.615	-0.1625	ppb	0.1874	115.3	-1.1321
Cr 267.716	-0.0100	ppb	0.1250	1252.4	44.7233
Cu 324.754	-0.0363	ppb	0.2149	591.2	241.143
Fe 271.441	4.1491	ppb	1.0166	24.5	23.5956
K 766.491	1317.74	ppb	3.6866	0.3	59106.4
Mg 279.078	3551.22	ppb	13.5721	0.4	10247.8
Mn 257.610	0.1084	ppb	0.0022	2.0	156.131
Mo 202.032	-0.0353	ppb	0.0793	224.5	8.7156
Na 330.237	5210.41	ppb	76.5088	1.5	289.074
Ni 231.604	0.7240	ppb	0.2599	35.9	-2.5359
Pb 220.353	0.2806	ppb	1.0072	359.0	7.8066
Sb 206.834	0.9320	ppb	2.2416	240.5	-2.8079
Se 196.026	1.0059	ppb	2.8156	279.9	2.7678
Sn 189.925	-1.2364	ppb	1.2720	102.9	-5.6222
Sr 216.596	82.9408	ppb	0.2745	0.3	1183.61
Ti 334.941	-0.0571	ppb	0.0045	7.9	12.3720
Tl 190.794	-0.7794	ppb	1.2422	159.4	-8.1347
V 292.401	-0.0702	ppb	0.2981	424.6	-14.8893
Zn 206.200	-0.3671	ppb	0.8107	220.8	0.8733

680-106739-a-5-dPDS (Samp) **11/4/2014, 7:44:32 PM** **Rack 1, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	99.4021	100.716	102.717
Al 308.215	988.709	986.660	1011.85
As 188.980	92.7554	94.8921	97.5030
B 249.678	400.546	402.731	412.422
Ba 389.178	227.507	228.557	233.893
Be 313.042	97.1175	97.2994	99.1217
Ca 370.602	87043	87074	88336
Cd 226.502	97.4776	97.3362	98.9131
Co 228.615	97.9162	98.4083	99.9018
Cr 267.716	101.798	101.924	103.524
Cu 324.754	102.209	102.564	105.548
Fe 271.441	9783.69	9793.86	9999.11
K 766.491	17355.7	17345.0	17786.8
Mg 279.078	27268.0	27308.1	27880.6
Mn 257.610	1020.25	1021.12	1042.69
Mo 202.032	97.1780	96.6628	98.9306
Na 330.237	35444.7	35621.3	36409.4
Ni 231.604	99.7106	96.7744	100.019
Pb 220.353	98.9679	100.757	101.463
Sb 206.834	91.6434	90.4949	100.047
Se 196.026	90.4740	100.280	103.169
Sn 189.925	92.2228	95.4723	98.5333
Sr 216.596	496.010	499.098	507.387
Ti 334.941	98.0294	98.1105	100.183
Tl 190.794	20.2010	19.4680	18.2737
V 292.401	98.7122	98.4536	99.7497
Zn 206.200	99.3460	99.7939	99.0674

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	100.945	ppb	1.6691	1.7	8883.69
Al 308.215	995.739	ppb	13.9887	1.4	7898.10
As 188.980	95.0502	ppb	2.3777	2.5	57.3924
B 249.678	405.233	ppb	6.3212	1.6	7095.63
Ba 389.178	229.986	ppb	3.4244	1.5	5701.55
Be 313.042	97.8462	ppb	1.1083	1.1	202136
Ca 370.602	87484	ppb	737.7	0.8	262849
Cd 226.502	97.9089	ppb	0.8725	0.9	4844.86
Co 228.615	98.7421	ppb	1.0340	1.0	1291.45
Cr 267.716	102.415	ppb	0.9624	0.9	6229.17
Cu 324.754	103.440	ppb	1.8339	1.8	8378.71
Fe 271.441	9858.89	ppb	121.542	1.2	17425.7
K 766.491	17495.9	ppb	252.004	1.4	781507
Mg 279.078	27485.6	ppb	342.712	1.2	79160.5
Mn 257.610	1028.02	ppb	12.7141	1.2	262976
Mo 202.032	97.5905	ppb	1.1888	1.2	760.995
Na 330.237	35825.1	ppb	513.616	1.4	1786.01
Ni 231.604	98.8345	ppb	1.7908	1.8	330.904
Pb 220.353	100.396	ppb	1.2860	1.3	180.843
Sb 206.834	94.0616	ppb	5.2148	5.5	140.864
Se 196.026	97.9740	ppb	6.6539	6.8	49.4234
Sn 189.925	95.4095	ppb	3.1557	3.3	73.2021
Sr 216.596	500.832	ppb	5.8832	1.2	7111.60

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	98.7744	ppb	1.2207	1.2	33549.8
Tl 190.794	19.3142	ppb	0.9728	5.0	14.8469
V 292.401	98.9718	ppb	0.6860	0.7	2819.76
Zn 206.200	99.4024	ppb	0.3665	0.4	121.464

680-106739-a-5-e ms (Samp) **11/4/2014, 7:48:48 PM** **Rack 1, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.4651	50.8764	50.0784
Al 308.215	4728.55	4843.70	4741.91
As 188.980	96.3266	98.4741	94.8628
B 249.678	387.231	398.618	390.380
Ba 389.178	231.134	236.818	231.621
Be 313.042	47.1597	48.2139	47.2006
Ca 370.602	77746	79545	78216
Cd 226.502	47.6419	48.9631	47.7560
Co 228.615	47.6957	48.3584	47.4098
Cr 267.716	96.8596	99.3145	97.3780
Cu 324.754	97.6648	99.9241	97.4509
Fe 271.441	4680.66	4784.98	4693.27
K 766.491	11758.4	12040.8	11792.2
Mg 279.078	21344.7	21856.9	21402.7
Mn 257.610	487.010	497.864	487.311
Mo 202.032	94.1255	95.8141	94.0555
Na 330.237	30111.7	31161.7	30280.8
Ni 231.604	95.3782	95.6387	94.9369
Pb 220.353	474.073	483.532	471.496
Sb 206.834	50.1364	48.5063	50.7729
Se 196.026	98.6984	93.4231	93.3628
Sn 189.925	180.446	189.184	183.537
Sr 216.596	478.644	489.662	477.827
Ti 334.941	93.9612	96.0160	93.9940
Tl 190.794	36.3597	38.6384	40.2349
V 292.401	93.7428	96.4595	94.4964
Zn 206.200	95.9820	98.3522	96.6816

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.1399	ppb	0.7077	1.4	4403.42
Al 308.215	4771.39	ppb	62.9816	1.3	35812.9
As 188.980	96.5545	ppb	1.8164	1.9	58.4442
B 249.678	392.076	ppb	5.8800	1.5	6880.23
Ba 389.178	233.191	ppb	3.1505	1.4	5768.86
Be 313.042	47.5247	ppb	0.5972	1.3	98071.9
Ca 370.602	78502	ppb	932.8	1.2	235910
Cd 226.502	48.1203	ppb	0.7321	1.5	2394.11
Co 228.615	47.8213	ppb	0.4866	1.0	625.620
Cr 267.716	97.8507	ppb	1.2939	1.3	5948.86
Cu 324.754	98.3466	ppb	1.3703	1.4	7976.05
Fe 271.441	4719.64	ppb	56.9385	1.2	8351.18
K 766.491	11863.8	ppb	154.206	1.3	530018
Mg 279.078	21534.8	ppb	280.466	1.3	62031.4
Mn 257.610	490.728	ppb	6.1813	1.3	125659
Mo 202.032	94.6650	ppb	0.9957	1.1	738.711

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	30518.0	ppb	563.769	1.8	1526.95
Ni 231.604	95.3179	ppb	0.3548	0.4	318.635
Pb 220.353	476.367	ppb	6.3378	1.3	827.162
Sb 206.834	49.8052	ppb	1.1690	2.3	72.3189
Se 196.026	95.1614	ppb	3.0633	3.2	47.8805
Sn 189.925	184.389	ppb	4.4310	2.4	145.762
Sr 216.596	482.044	ppb	6.6101	1.4	6836.02
Ti 334.941	94.6571	ppb	1.1770	1.2	32142.5
Tl 190.794	38.4110	ppb	1.9476	5.1	37.6597
V 292.401	94.8996	ppb	1.4025	1.5	2701.06
Zn 206.200	97.0053	ppb	1.2178	1.3	118.827

680-106739-a-5-f msd (Samp) **11/4/2014, 7:53:04 PM** **Rack 1, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	54.8902	55.3553	54.2762
Al 308.215	5233.48	5241.57	5126.06
As 188.980	105.437	107.541	103.768
B 249.678	424.243	425.488	416.069
Ba 389.178	255.691	256.276	249.174
Be 313.042	52.0648	52.1820	50.9651
Ca 370.602	86177	86302	83968
Cd 226.502	52.0274	52.2493	50.8260
Co 228.615	51.9009	52.3813	50.6659
Cr 267.716	106.132	106.508	103.540
Cu 324.754	108.195	109.000	105.728
Fe 271.441	5170.17	5182.38	5047.97
K 766.491	13008.1	12596.2	12785.0
Mg 279.078	23558.5	23586.2	23020.2
Mn 257.610	537.430	538.157	524.971
Mo 202.032	104.586	103.602	101.327
Na 330.237	33565.6	33769.9	33151.9
Ni 231.604	106.214	106.823	102.355
Pb 220.353	517.336	530.156	513.010
Sb 206.834	50.8564	53.0422	50.9733
Se 196.026	105.906	104.454	103.447
Sn 189.925	204.624	204.351	199.178
Sr 216.596	527.277	526.240	514.328
Ti 334.941	103.640	103.973	101.718
Tl 190.794	39.4568	44.0536	39.1552
V 292.401	103.821	104.055	101.580
Zn 206.200	104.674	106.464	103.374

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.8406	ppb	0.5412	1.0	4816.54
Al 308.215	5200.37	ppb	64.4784	1.2	38987.8
As 188.980	105.582	ppb	1.8904	1.8	64.3218
B 249.678	421.933	ppb	5.1166	1.2	7394.49
Ba 389.178	253.714	ppb	3.9420	1.6	6282.78
Be 313.042	51.7373	ppb	0.6713	1.3	106784
Ca 370.602	85482	ppb	1313	1.5	256881
Cd 226.502	51.7009	ppb	0.7657	1.5	2570.59
Co 228.615	51.6493	ppb	0.8849	1.7	675.615

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	105.393	ppb	1.6157	1.5	6403.99
Cu 324.754	107.641	ppb	1.7049	1.6	8706.78
Fe 271.441	5133.51	ppb	74.3300	1.4	9082.03
K 766.491	12796.4	ppb	206.186	1.6	571663
Mg 279.078	23388.3	ppb	319.077	1.4	67368.8
Mn 257.610	533.519	ppb	7.4124	1.4	136608
Mo 202.032	103.172	ppb	1.6717	1.6	804.285
Na 330.237	33495.8	ppb	314.853	0.9	1672.73
Ni 231.604	105.131	ppb	2.4233	2.3	351.948
Pb 220.353	520.167	ppb	8.9168	1.7	902.541
Sb 206.834	51.6240	ppb	1.2296	2.4	75.0836
Se 196.026	104.603	ppb	1.2364	1.2	52.4017
Sn 189.925	202.718	ppb	3.0685	1.5	160.709
Sr 216.596	522.615	ppb	7.1955	1.4	7410.71
Ti 334.941	103.110	ppb	1.2170	1.2	35010.6
Tl 190.794	40.8885	ppb	2.7452	6.7	40.5411
V 292.401	103.152	ppb	1.3664	1.3	2937.08
Zn 206.200	104.837	ppb	1.5516	1.5	128.314

680-106734-c-1-b (Samp) **11/4/2014, 7:57:21 PM** **Rack 1, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2717u	-0.3577u	-0.2703u
Al 308.215	888.000	886.964	886.938
As 188.980	-0.7156u	5.2590	-0.2545u
B 249.678	76.5213	76.0108	75.2978
Ba 389.178	298.159	297.759	297.175
Be 313.042	0.0046u	-0.0031u	0.0030u
Ca 370.602	87914	87387	87402
Cd 226.502	-0.1052u	0.0238	-0.0995u
Co 228.615	0.9879	0.9741	1.0202
Cr 267.716	4.5213	4.4798	4.4114
Cu 324.754	1.6911	1.6847	1.9489
Fe 271.441	931.337	926.086	928.399
K 766.491	23619.4	23617.2	23633.7
Mg 279.078	10773.8	10773.3	10777.6
Mn 257.610	2127.19	2126.68	2125.62
Mo 202.032	2.2508	1.7723	1.4643
Na 330.237	330741x	330305x	329586x
Ni 231.604	8.3345	8.6862	8.2635
Pb 220.353	0.5418	-1.5128u	0.4836
Sb 206.834	-3.9713u	-1.6509u	0.6420
Se 196.026	5.4910	3.4257	6.5381
Sn 189.925	-2.2967u	-1.9039u	-2.8914u
Sr 216.596	369.704	369.210	370.235
Ti 334.941	7.7149	7.6340	7.5769
Tl 190.794	2.1197	0.6463	-1.2693u
V 292.401	2.9444	2.4902	2.5917
Zn 206.200	9.5802	9.9288	9.6138

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2999b	ppb	0.0501	16.7	-30.1641
Al 308.215	887.300b	ppb	0.6061	0.1	7063.48

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	1.4296b	ppb	3.3244	232.5	-3.4854
B 249.678	75.9433b	ppb	0.6145	0.8	1433.26
Ba 389.178	297.697b	ppb	0.4946	0.2	7354.27
Be 313.042	0.0015b	ppb	0.0041	272.7	-229.562
Ca 370.602	87568b	ppb	299.9	0.3	263198
Cd 226.502	-0.0603b	ppb	0.0729	120.8	25.5686
Co 228.615	0.9941b	ppb	0.0237	2.4	14.2073
Cr 267.716	4.4708b	ppb	0.0555	1.2	334.213
Cu 324.754	1.7749b	ppb	0.1507	8.5	383.924
Fe 271.441	928.607b	ppb	2.6318	0.3	1654.87
K 766.491	23623.4b	ppb	8.9510	0.0	1055120
Mg 279.078	10774.9b	ppb	2.3561	0.0	31006.5
Mn 257.610	2126.50b	ppb	0.7970	0.0	543384
Mo 202.032	1.8291b	ppb	0.3963	21.7	23.0421
Na 330.237	330211xb	ppb	583.052	0.2	16234.0
Ni 231.604	8.4281b	ppb	0.2263	2.7	23.6799
Pb 220.353	-0.1625b	ppb	1.1697	720.0	7.5706
Sb 206.834	-1.6601b	ppb	2.3067	138.9	-6.7551
Se 196.026	5.1516b	ppb	1.5837	30.7	5.2664
Sn 189.925	-2.3640b	ppb	0.4972	21.0	-6.4276
Sr 216.596	369.716b	ppb	0.5126	0.1	5256.46
Ti 334.941	7.6419b	ppb	0.0693	0.9	2605.36
Tl 190.794	0.4989b	ppb	1.6993	340.6	-5.5906
V 292.401	2.6754b	ppb	0.2384	8.9	61.4410
Zn 206.200	9.7076b	ppb	0.1923	2.0	13.0736

680-106753-c-1-b (Samp) **11/4/2014, 8:01:37 PM** **Rack 1, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0383u	0.1365	-0.2126u
Al 308.215	54.2390	54.9221	52.8617
As 188.980	2.3148	4.5367	-0.5379u
B 249.678	38.3533	37.8228	38.1723
Ba 389.178	17.5074	18.5315	17.8370
Be 313.042	-0.0661u	-0.0649u	-0.0645u
Ca 370.602	63738	63560	63632
Cd 226.502	0.1043	-0.0561u	0.0104
Co 228.615	-0.5563u	0.1747	0.1426
Cr 267.716	0.3431	0.3730	0.3829
Cu 324.754	3.5267	3.5142	2.8986
Fe 271.441	92.6768	89.2943	90.9274
K 766.491	1672.50	1683.72	1687.04
Mg 279.078	26774.1	26726.1	26779.3
Mn 257.610	29.7492	29.7404	29.7812
Mo 202.032	28.6455	28.8764	29.3998
Na 330.237	8561.69	8466.53	8481.74
Ni 231.604	29.4418	29.4599	28.4377
Pb 220.353	-0.6102u	1.9994	-0.2985u
Sb 206.834	0.2436u	0.5718	2.3219
Se 196.026	9.4306	7.6374	1.8517
Sn 189.925	4.1070	-1.6145u	-0.0222u
Sr 216.596	54.6865	53.5546	54.5385
Ti 334.941	-0.1988u	-0.2223u	-0.2296u

Label	Replicates Concentration		
Tl 190.794	1.8428	0.8683	-0.1713u
V 292.401	-0.3964u	-0.1748u	0.0081u
Zn 206.200	1.1416	2.1682	1.8305

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0381	ppb	0.1746	457.9	-7.2201
Al 308.215	54.0076	ppb	1.0495	1.9	900.339
As 188.980	2.1046	ppb	2.5438	120.9	-3.0567
B 249.678	38.1162	ppb	0.2697	0.7	782.442
Ba 389.178	17.9586	ppb	0.5228	2.9	417.545
Be 313.042	-0.0652	ppb	0.0008	1.2	-339.211
Ca 370.602	63643	ppb	89.21	0.1	191264
Cd 226.502	0.0196	ppb	0.0806	411.8	28.2910
Co 228.615	-0.0797	ppb	0.4131	518.5	-0.9549
Cr 267.716	0.3663	ppb	0.0207	5.7	67.7009
Cu 324.754	3.3132	ppb	0.3591	10.8	505.620
Fe 271.441	90.9661	ppb	1.6916	1.9	176.799
K 766.491	1681.09	ppb	7.6209	0.5	75331.1
Mg 279.078	26759.8	ppb	29.3471	0.1	77092.4
Mn 257.610	29.7569	ppb	0.0215	0.1	7940.08
Mo 202.032	28.9739	ppb	0.3865	1.3	232.441
Na 330.237	8503.32	ppb	51.1150	0.6	450.578
Ni 231.604	29.1131	ppb	0.5850	2.0	93.7671
Pb 220.353	0.3636	ppb	1.4252	392.0	7.9190
Sb 206.834	1.0458	ppb	1.1173	106.8	-3.1802
Se 196.026	6.3066	ppb	3.9609	62.8	5.3058
Sn 189.925	0.8234	ppb	2.9530	358.6	-3.9412
Sr 216.596	54.2598	ppb	0.6152	1.1	799.394
Ti 334.941	-0.2169	ppb	0.0161	7.4	5.5664
Tl 190.794	0.8466	ppb	1.0072	119.0	-6.3209
V 292.401	-0.1877	ppb	0.2026	107.9	-23.1188
Zn 206.200	1.7134	ppb	0.5232	30.5	3.4000

CRI (Samp) **11/4/2014, 8:05:54 PM** **Rack 1, Tube 23**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.6761	10.5251	10.0894
Al 308.215	201.799	198.299	200.062
As 188.980	22.2932	18.7002	13.2269
B 249.678	97.6357	96.8009	97.2007
Ba 389.178	10.6544	10.7872	10.3668
Be 313.042	4.0953	4.0588	4.0808
Ca 370.602	520.0	515.4	519.5
Cd 226.502	4.9484	4.9730	5.0155
Co 228.615	10.1676	9.7203	10.0142
Cr 267.716	10.2117	10.2207	10.1438
Cu 324.754	21.4162	21.4615	21.4957
Fe 271.441	52.2491	51.3685	55.8563
K 766.491	1087.79	1081.21	1083.34
Mg 279.078	512.227	503.028	505.145
Mn 257.610	11.1318	11.0380	11.1264
Mo 202.032	9.8233	9.7699	9.1736
Na 330.237	964.405	997.672	965.523

Label	Replicates Concentration		
Ni 231.604	40.9700	40.6110	41.4016
Pb 220.353	11.4148	9.5449	9.8810
Sb 206.834	20.4868	18.5858	22.1101
Se 196.026	26.6228	19.1826	19.4925
Sn 189.925	50.2716	47.2186	51.6349
Sr 216.596	9.7477	9.6610	9.9296
Ti 334.941	9.9793	9.9174	9.9406
Tl 190.794	25.2860	27.3405	24.4216
V 292.401	10.4208	10.6590	10.4273
Zn 206.200	20.9292	19.0258	21.8603

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.4302	ppb	0.3047	2.9	917.872
Al 308.215	200.053	ppb	1.7502	0.9	1980.27
As 188.980	18.0734	ppb	4.5655	25.3	7.3486
B 249.678	97.2124	ppb	0.4175	0.4	1802.62
Ba 389.178	10.6028	ppb	0.2149	2.0	193.486
Be 313.042	4.0783	ppb	0.0184	0.5	8210.86
Ca 370.602	518.3	ppb	2.503	0.5	1599
Cd 226.502	4.9790	ppb	0.0340	0.7	269.523
Co 228.615	9.9674	ppb	0.2273	2.3	131.156
Cr 267.716	10.1921	ppb	0.0420	0.4	659.612
Cu 324.754	21.4578	ppb	0.0399	0.2	1930.25
Fe 271.441	53.1580	ppb	2.3779	4.5	111.567
K 766.491	1084.11	ppb	3.3595	0.3	48674.5
Mg 279.078	506.800	ppb	4.8173	1.0	1479.01
Mn 257.610	11.0987	ppb	0.0527	0.5	2936.00
Mo 202.032	9.5889	ppb	0.3607	3.8	82.9251
Na 330.237	975.867	ppb	18.8919	1.9	80.7610
Ni 231.604	40.9942	ppb	0.3958	1.0	134.036
Pb 220.353	10.2802	ppb	0.9968	9.7	24.9999
Sb 206.834	20.3942	ppb	1.7640	8.6	27.2017
Se 196.026	21.7660	ppb	4.2090	19.3	12.6775
Sn 189.925	49.7084	ppb	2.2614	4.5	35.9210
Sr 216.596	9.7794	ppb	0.1371	1.4	144.963
Ti 334.941	9.9458	ppb	0.0313	0.3	3396.11
Tl 190.794	25.6827	ppb	1.4993	5.8	23.0971
V 292.401	10.5024	ppb	0.1357	1.3	287.469
Zn 206.200	20.6051	ppb	1.4448	7.0	26.3659

mb 680-356765/1-a (Samp) **11/4/2014, 8:10:11 PM** **Rack 1, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1269u	-0.0479u	-0.2188u
Al 308.215	-0.4845u	2.4098	2.7798
As 188.980	-4.8949u	-3.7258u	-4.3778u
B 249.678	-2.0358u	-2.2590u	-2.5400u
Ba 389.178	0.4960	0.9852	-0.2186u
Be 313.042	-0.0422u	-0.0500u	-0.0385u
Ca 370.602	4.142	2.699	2.627
Cd 226.502	-0.0743u	0.0792	-0.1069u
Co 228.615	-0.1129u	-0.1364u	0.0688
Cr 267.716	-0.1658u	-0.1725u	-0.2503u

Label	Replicates Concentration		
Cu 324.754	-0.0484u	0.1099	-0.1854u
Fe 271.441	-5.8509u	-7.1086u	-3.6384u
K 766.491	1.0865	1.0036	1.5642
Mg 279.078	2.2337	1.5494	3.0866
Mn 257.610	0.0644	0.1021	0.0959
Mo 202.032	-0.3694u	-0.2819u	0.1246
Na 330.237	-57.1453u	-93.2025u	-103.141u
Ni 231.604	-0.3780u	0.5854	-0.0998u
Pb 220.353	-1.1096u	0.1194	0.3843
Sb 206.834	0.7893	0.6722	-0.8579u
Se 196.026	-2.3483u	0.5751	-3.5076u
Sn 189.925	-2.3272u	-2.5520u	-0.1553u
Sr 216.596	-0.3681u	-0.3749u	-0.6641u
Ti 334.941	-0.2255u	-0.1817u	-0.2118u
Tl 190.794	-3.0972u	-0.7744u	-3.1048u
V 292.401	0.0550	-0.1367u	0.1149
Zn 206.200	1.1112	1.0766	1.2909

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1312	ppb	0.0855	65.2	-12.9565
Al 308.215	1.5684	ppb	1.7874	114.0	510.452
As 188.980	-4.3329	ppb	0.5859	13.5	-7.2402
B 249.678	-2.2782	ppb	0.2526	11.1	85.6059
Ba 389.178	0.4209	ppb	0.6054	143.8	-60.7910
Be 313.042	-0.0436	ppb	0.0059	13.4	-311.954
Ca 370.602	3.156	ppb	0.8548	27.1	46.97
Cd 226.502	-0.0340	ppb	0.0994	292.4	24.8667
Co 228.615	-0.0602	ppb	0.1123	186.7	0.2026
Cr 267.716	-0.1962	ppb	0.0470	24.0	33.3749
Cu 324.754	-0.0413	ppb	0.1477	357.9	240.751
Fe 271.441	-5.5326	ppb	1.7569	31.8	6.5192
K 766.491	1.2181	ppb	0.3026	24.8	320.077
Mg 279.078	2.2899	ppb	0.7701	33.6	26.2426
Mn 257.610	0.0875	ppb	0.0202	23.1	118.541
Mo 202.032	-0.1756	ppb	0.2636	150.1	7.6343
Na 330.237	-84.4963	ppb	24.2022	28.6	29.2634
Ni 231.604	0.0358	ppb	0.4958	1383.3	-4.8704
Pb 220.353	-0.2019	ppb	0.7971	394.7	6.9761
Sb 206.834	0.2012	ppb	0.9191	456.9	-3.9369
Se 196.026	-1.7603	ppb	2.1039	119.5	1.4478
Sn 189.925	-1.6782	ppb	1.3236	78.9	-5.9843
Sr 216.596	-0.4690	ppb	0.1690	36.0	1.7350
Ti 334.941	-0.2063	ppb	0.0224	10.9	-44.9732
Tl 190.794	-2.3254	ppb	1.3433	57.8	-9.9577
V 292.401	0.0111	ppb	0.1314	1187.1	-12.5330
Zn 206.200	1.1596	ppb	0.1150	9.9	2.7326

Cont Calib Verif (CCV) **11/4/2014, 8:14:27 PM** **Rack 1, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	507.485	510.417	509.189
Al 308.215	4871.69	4878.30	4856.88
As 188.980	489.431	488.194	486.457

Label	Replicates Concentration		
B 249.678	488.025	490.261	488.785
Ba 389.178	4983.61	4984.27	4977.23
Be 313.042	498.238	497.702	498.424
Ca 370.602	4950	4940	4919
Cd 226.502	500.623	500.152	499.207
Co 228.615	504.279	503.302	500.248
Cr 267.716	5109.18	5102.21	5095.78
Cu 324.754	5078.34	5103.63	5049.48
Fe 271.441	4945.07	4961.36	4944.87
K 766.491	10358.1	10382.0	10359.5
Mg 279.078	4917.51	4919.45	4914.82
Mn 257.610	5061.50	5064.58	5051.71
Mo 202.032	494.333	492.989	495.158
Na 330.237	7341.08	7309.27	7317.39
Ni 231.604	2495.13	2489.39	2488.81
Pb 220.353	506.377	499.205	500.753
Sb 206.834	961.137	962.235	958.757
Se 196.026	4980.63	4985.76	4975.11
Sn 189.925	5026.58	5004.64	4939.96
Sr 216.596	2476.30	2473.36	2469.65
Ti 334.941	494.391	494.243	493.762
Tl 190.794	5065.46	5070.60	5047.80
V 292.401	4939.30	4938.86	4925.32
Zn 206.200	2498.42	2507.73	2507.23

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	509.030	ppb	1.4726	0.3	44827.4	101.80608
Al 308.215	4868.96	ppb	10.9684	0.2	37087.7	97.37911
As 188.980	488.027	ppb	1.4938	0.3	313.239	97.60547
B 249.678	489.024	ppb	1.1368	0.2	8566.62	97.80473
Ba 389.178	4981.70	ppb	3.8896	0.1	123923	99.63401
Be 313.042	498.121	ppb	0.3749	0.1	1030090	99.62429
Ca 370.602	4936	ppb	15.68	0.3	15217	98.72768
Cd 226.502	499.994	ppb	0.7213	0.1	24424.6	99.99879
Co 228.615	502.610	ppb	2.1027	0.4	6574.36	100.52197
Cr 267.716	5102.39	ppb	6.6993	0.1	307624	102.04778
Cu 324.754	5077.15	ppb	27.0915	0.5	399110	101.54303
Fe 271.441	4950.43	ppb	9.4621	0.2	8875.70	99.00864
K 766.491	10366.5	ppb	13.3840	0.1	463161	103.66525
Mg 279.078	4917.26	ppb	2.3266	0.0	14069.6	98.34524
Mn 257.610	5059.26	ppb	6.7181	0.1	1292487	101.18530
Mo 202.032	494.160	ppb	1.0949	0.2	3813.77	98.83206
Na 330.237	7322.58	ppb	16.5261	0.2	327.031	97.63445
Ni 231.604	2491.11	ppb	3.4943	0.1	8443.81	99.64443
Pb 220.353	502.111	ppb	3.7740	0.8	875.998	100.42227
Sb 206.834	960.709	ppb	1.7781	0.2	1534.81	96.07095
Se 196.026	4980.50	ppb	5.3237	0.1	2380.15	99.60999
Sn 189.925	4990.40	ppb	45.0328	0.9	4064.98	99.80792
Sr 216.596	2473.10	ppb	3.3289	0.1	34771.8	98.92418
Ti 334.941	494.132	ppb	0.3289	0.1	167476	98.82635
Tl 190.794	5061.29	ppb	11.9586	0.2	5974.17	101.22572
V 292.401	4934.49	ppb	7.9458	0.2	141720	98.68980
Zn 206.200	2504.46	ppb	5.2342	0.2	3032.16	100.17847

Cont Calib Blank (CCB) **11/4/2014, 8:18:42 PM** **Rack 1, Tube 26**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0434u	0.1106	-0.2205u
Al 308.215	0.3684	-0.3358u	-0.3346u
As 188.980	-2.0818u	-1.6881u	-0.6672u
B 249.678	2.7249	1.5606	1.2622
Ba 389.178	0.5133	1.2308	0.4806
Be 313.042	-0.0268u	-0.0237u	-0.0255u
Ca 370.602	-4.277u	4.553	1.454
Cd 226.502	0.0346	-0.0495u	0.0655
Co 228.615	0.2495	-0.4369u	0.4243
Cr 267.716	0.2251	0.1695	0.1521
Cu 324.754	0.3293	0.0183	0.3624
Fe 271.441	-1.4458u	0.9538	0.5670
K 766.491	0.2769	-0.0035u	-0.0733u
Mg 279.078	0.7514	1.0377	1.6406
Mn 257.610	0.1707	0.1739	0.2226
Mo 202.032	-0.1371u	-0.0060u	0.0186
Na 330.237	-6.1558u	-61.6647u	124.459
Ni 231.604	0.0144	0.9609	-0.6217u
Pb 220.353	-0.0131u	2.1259	1.6202
Sb 206.834	3.1431	1.1826	4.9505
Se 196.026	0.5588	6.1349	0.8094
Sn 189.925	-1.8021u	0.2547	-2.9630u
Sr 216.596	0.0464	0.0926	0.0124
Ti 334.941	-0.0036u	0.0045	0.0076
Tl 190.794	2.4639	-0.5980u	0.1849
V 292.401	0.4069	0.2941	0.0447
Zn 206.200	-0.7610u	0.9594	0.5449

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0511	ppb	0.1657	324.3	-5.9079	-0.05109
Al 308.215	-0.1007	ppb	0.4063	403.6	498.138	-0.10066
As 188.980	-1.4790	ppb	0.7301	49.4	-5.3820	-1.47901
B 249.678	1.8492	ppb	0.7729	41.8	156.865	1.84924
Ba 389.178	0.7416	ppb	0.4240	57.2	-52.8109	0.74158
Be 313.042	-0.0254	ppb	0.0015	6.1	-274.329	-0.02535
Ca 370.602	0.5766	ppb	4.480	776.9	39.30	0.57664
Cd 226.502	0.0169	ppb	0.0595	352.8	27.3553	0.01687
Co 228.615	0.0790	ppb	0.4553	576.6	2.0237	0.07896
Cr 267.716	0.1822	ppb	0.0382	20.9	56.1886	0.18222
Cu 324.754	0.2367	ppb	0.1898	80.2	262.591	0.23666
Fe 271.441	0.0250	ppb	1.2884	5150.8	16.3386	0.02501
K 766.491	0.0667	ppb	0.1853	277.9	268.663	0.06670
Mg 279.078	1.1432	ppb	0.4539	39.7	22.9382	1.14320
Mn 257.610	0.1890	ppb	0.0291	15.4	144.481	0.18904
Mo 202.032	-0.0415	ppb	0.0837	201.7	8.6679	-0.04150
Na 330.237	18.8794	ppb	95.5539	506.1	34.3569	18.87937
Ni 231.604	0.1179	ppb	0.7963	675.6	-4.5922	0.11787
Pb 220.353	1.2444	ppb	1.1179	89.8	9.4647	1.24436
Sb 206.834	3.0920	ppb	1.8845	60.9	0.5287	3.09205
Se 196.026	2.5010	ppb	3.1495	125.9	3.4812	2.50104
Sn 189.925	-1.5035	ppb	1.6295	108.4	-5.8418	-1.50347
Sr 216.596	0.0505	ppb	0.0402	79.7	9.0494	0.05047

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.0028	ppb	0.0058	203.5	25.8954	0.00283
Tl 190.794	0.6836	ppb	1.5907	232.7	-6.4080	0.68360
V 292.401	0.2486	ppb	0.1853	74.6	-5.7284	0.24855
Zn 206.200	0.2478	ppb	0.8978	362.4	1.6212	0.24778

llcs 680-356765/2-a (Samp) **11/4/2014, 8:22:57 PM** **Rack 1, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.6214	10.5133	10.5818
Al 308.215	200.332	200.516	201.486
As 188.980	18.3415	22.2470	16.3460
B 249.678	98.0137	98.5372	98.7505
Ba 389.178	10.1084	10.3413	10.1395
Be 313.042	4.0529	4.0624	4.0471
Ca 370.602	509.4	512.3	513.3
Cd 226.502	4.9553	5.2211	5.0212
Co 228.615	10.5554	9.9485	10.1199
Cr 267.716	10.5974	10.5836	10.4986
Cu 324.754	21.2790	21.5179	21.2576
Fe 271.441	51.6394	58.3671	50.8279
K 766.491	1109.64	1108.92	1106.95
Mg 279.078	511.315	514.695	508.991
Mn 257.610	10.7297	10.8199	10.7445
Mo 202.032	9.3695	9.3638	10.1719
Na 330.237	902.927	956.388	867.636
Ni 231.604	41.8470	41.8037	41.6963
Pb 220.353	8.1763	9.0673	10.4803
Sb 206.834	19.9455	21.6900	21.1099
Se 196.026	17.3037	17.8996	19.2029
Sn 189.925	48.3452	53.5124	50.8556
Sr 216.596	9.7735	9.9369	9.5120
Ti 334.941	10.0908	10.1185	10.0957
Tl 190.794	25.1230	25.6597	27.7731
V 292.401	10.7175	10.8327	10.8346
Zn 206.200	22.3154	23.2668	21.5728

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.5722	ppb	0.0547	0.5	930.386
Al 308.215	200.778	ppb	0.6199	0.3	1985.63
As 188.980	18.9782	ppb	3.0016	15.8	7.9377
B 249.678	98.4338	ppb	0.3792	0.4	1823.71
Ba 389.178	10.1964	ppb	0.1264	1.2	183.375
Be 313.042	4.0542	ppb	0.0077	0.2	8160.98
Ca 370.602	511.6	ppb	2.038	0.4	1579
Cd 226.502	5.0659	ppb	0.1384	2.7	273.732
Co 228.615	10.2080	ppb	0.3128	3.1	134.300
Cr 267.716	10.5599	ppb	0.0535	0.5	681.777
Cu 324.754	21.3515	ppb	0.1445	0.7	1921.90
Fe 271.441	53.6115	ppb	4.1384	7.7	112.393
K 766.491	1108.50	ppb	1.3958	0.1	49763.5
Mg 279.078	511.667	ppb	2.8682	0.6	1493.03
Mn 257.610	10.7647	ppb	0.0484	0.4	2850.70
Mo 202.032	9.6351	ppb	0.4649	4.8	83.2814

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	908.984	ppb	44.6847	4.9	77.4143
Ni 231.604	41.7824	ppb	0.0776	0.2	136.708
Pb 220.353	9.2413	ppb	1.1618	12.6	23.2120
Sb 206.834	20.9151	ppb	0.8884	4.2	28.0086
Se 196.026	18.1354	ppb	0.9713	5.4	10.9449
Sn 189.925	50.9044	ppb	2.5840	5.1	36.8964
Sr 216.596	9.7408	ppb	0.2143	2.2	144.386
Ti 334.941	10.1017	ppb	0.0148	0.1	3448.95
Tl 190.794	26.1853	ppb	1.4011	5.4	23.6912
V 292.401	10.7949	ppb	0.0671	0.6	295.861
Zn 206.200	22.3850	ppb	0.8491	3.8	28.5318

lcs 680-356765/4-a (Samp) **11/4/2014, 8:27:12 PM** **Rack 1, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.3542	21.9261	21.7775
Al 308.215	1960.41	1964.23	1962.96
As 188.980	41.1596	39.3558	41.0217
B 249.678	77.9036	78.1537	77.3779
Ba 389.178	40.5247	41.0609	41.0386
Be 313.042	20.2867	20.3372	20.3719
Ca 370.602	2000	2000	2000
Cd 226.502	20.5731	20.5337	20.5739
Co 228.615	20.7429	20.3969	20.6901
Cr 267.716	41.6465	41.5387	41.6561
Cu 324.754	41.5127	41.2105	41.6228
Fe 271.441	2029.51	2040.14	2045.33
K 766.491	2138.91	2145.98	2148.67
Mg 279.078	1999.02	2004.87	2006.83
Mn 257.610	211.602	212.125	212.266
Mo 202.032	39.2213	39.9639	39.4282
Na 330.237	1983.01	1980.90	1892.79
Ni 231.604	41.4768	40.3822	41.4399
Pb 220.353	206.528	205.514	203.646
Sb 206.834	19.4635	20.4662	21.4198
Se 196.026	45.7543	44.1376	41.5637
Sn 189.925	78.5477	76.5685	79.2104
Sr 216.596	40.1167	39.8476	39.9702
Ti 334.941	40.4599	40.5829	40.6056
Tl 190.794	17.1986	14.7168	17.7007
V 292.401	40.5721	40.6618	40.5621
Zn 206.200	43.2820	41.9591	43.7683

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.6860	ppb	0.2967	1.4	1909.92
Al 308.215	1962.53	ppb	1.9432	0.1	15024.3
As 188.980	40.5123	ppb	1.0040	2.5	21.9565
B 249.678	77.8117	ppb	0.3960	0.5	1463.08
Ba 389.178	40.8747	ppb	0.3034	0.7	950.579
Be 313.042	20.3320	ppb	0.0428	0.2	41819.8
Ca 370.602	2000	ppb	0.3227	0.0	6046
Cd 226.502	20.5602	ppb	0.0230	0.1	1038.18
Co 228.615	20.6099	ppb	0.1864	0.9	270.227

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	41.6138	ppb	0.0652	0.2	2555.68
Cu 324.754	41.4487	ppb	0.2135	0.5	3502.71
Fe 271.441	2038.33	ppb	8.0627	0.4	3615.97
K 766.491	2144.52	ppb	5.0368	0.2	96024.7
Mg 279.078	2003.57	ppb	4.0608	0.2	5784.90
Mn 257.610	211.997	ppb	0.3500	0.2	54273.7
Mo 202.032	39.5378	ppb	0.3832	1.0	313.760
Na 330.237	1952.23	ppb	51.4898	2.6	127.545
Ni 231.604	41.0996	ppb	0.6216	1.5	134.551
Pb 220.353	205.229	ppb	1.4618	0.7	360.531
Sb 206.834	20.4498	ppb	0.9783	4.8	27.2027
Se 196.026	43.8185	ppb	2.1134	4.8	23.2764
Sn 189.925	78.1089	ppb	1.3745	1.8	59.0816
Sr 216.596	39.9782	ppb	0.1347	0.3	573.385
Ti 334.941	40.5495	ppb	0.0784	0.2	13769.8
Tl 190.794	16.5387	ppb	1.5976	9.7	12.1107
V 292.401	40.5987	ppb	0.0549	0.1	1148.40
Zn 206.200	43.0031	ppb	0.9362	2.2	53.4214

680-106741-j-8-a (Samp) **11/4/2014, 8:31:27 PM** **Rack 1, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3531u	-0.4182u	-0.2688u
Al 308.215	1.6784	0.5273	2.7712
As 188.980	0.2051	-2.9568u	1.3508
B 249.678	7.1751	6.9661	7.0396
Ba 389.178	0.9516	1.2554	1.6455
Be 313.042	-0.0613u	-0.0632u	-0.0666u
Ca 370.602	75616	75614	75556
Cd 226.502	-0.1698u	-0.0864	-0.0477
Co 228.615	-0.3953u	0.3097	-0.2476u
Cr 267.716	-0.0121	-0.0866u	-0.2019u
Cu 324.754	0.0334	-0.1590u	0.2067
Fe 271.441	1269.46	1263.84	1258.52
K 766.491	1327.12	1325.80	1323.87
Mg 279.078	1614.90	1611.42	1607.03
Mn 257.610	39.6561	39.6676	39.5899
Mo 202.032	-0.1176u	-0.0152u	-0.9717u
Na 330.237	6434.32	6467.16	6445.80
Ni 231.604	0.1176	-0.4966u	0.0750
Pb 220.353	-1.1401u	0.0714	0.5206
Sb 206.834	-4.4092u	-0.4149u	1.8651
Se 196.026	1.7400	1.6950	1.4296
Sn 189.925	-1.6191u	-1.4189u	-2.5133u
Sr 216.596	257.952	257.542	257.284
Ti 334.941	-0.0397u	-0.0740u	-0.0508u
Tl 190.794	0.1192u	-0.4003u	0.0258u
V 292.401	-0.1515u	-0.5261u	-0.5137u
Zn 206.200	2.3764	1.8883	2.9459

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3467	ppb	0.0749	21.6	-41.4055
Al 308.215	1.6590	ppb	1.1221	67.6	513.468

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-0.4670	ppb	2.2311	477.8	-4.7309
B 249.678	7.0603	ppb	0.1060	1.5	243.719
Ba 389.178	1.2842	ppb	0.3479	27.1	-36.0313
Be 313.042	-0.0637	ppb	0.0027	4.2	-325.138
Ca 370.602	75595	ppb	33.91	0.0	227162
Cd 226.502	-0.1013	ppb	0.0624	61.6	27.3235
Co 228.615	-0.1111	ppb	0.3718	334.8	-0.3522
Cr 267.716	-0.1002	ppb	0.0956	95.4	40.1963
Cu 324.754	0.0271	ppb	0.1829	675.9	246.695
Fe 271.441	1263.94	ppb	5.4699	0.4	2246.34
K 766.491	1325.60	ppb	1.6350	0.1	59457.6
Mg 279.078	1611.12	ppb	3.9459	0.2	4659.11
Mn 257.610	39.6378	ppb	0.0419	0.1	10241.3
Mo 202.032	-0.3682	ppb	0.5252	142.6	6.0813
Na 330.237	6449.10	ppb	16.6654	0.3	349.469
Ni 231.604	-0.1013	ppb	0.3430	338.5	-5.2175
Pb 220.353	-0.1827	ppb	0.8591	470.2	7.1105
Sb 206.834	-0.9863	ppb	3.1759	322.0	-5.7196
Se 196.026	1.6215	ppb	0.1677	10.3	3.0888
Sn 189.925	-1.8504	ppb	0.5827	31.5	-6.1225
Sr 216.596	257.592	ppb	0.3371	0.1	3672.32
Ti 334.941	-0.0548	ppb	0.0175	32.0	9.2251
Tl 190.794	-0.0851	ppb	0.2769	325.4	-7.4754
V 292.401	-0.3971	ppb	0.2128	53.6	-23.7711
Zn 206.200	2.4035	ppb	0.5293	22.0	4.1816

680-106741-j-8-b ms (Samp) **11/4/2014, 8:35:42 PM** **Rack 1, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.4526	21.7288	22.0993
Al 308.215	1994.39	2021.88	2013.84
As 188.980	35.9227	40.6450	37.8689
B 249.678	85.0020	86.7239	86.8331
Ba 389.178	41.2499	41.6861	42.4382
Be 313.042	20.2472	20.5407	20.4211
Ca 370.602	74387	75503	75068
Cd 226.502	20.1219	20.4872	20.3753
Co 228.615	19.6532	20.7894	20.0437
Cr 267.716	41.2543	41.9604	41.4845
Cu 324.754	41.5157	42.2155	41.9466
Fe 271.441	3220.19	3274.24	3261.36
K 766.491	3485.68	3532.78	3524.54
Mg 279.078	3512.68	3553.81	3539.44
Mn 257.610	247.905	251.075	250.122
Mo 202.032	39.2666	39.0127	39.7240
Na 330.237	8035.01	8362.29	8380.50
Ni 231.604	41.0020	40.0909	40.3157
Pb 220.353	204.677	204.627	203.303
Sb 206.834	16.5591	19.0243	20.9937
Se 196.026	41.5646	47.8120	37.7896
Sn 189.925	79.2641	77.3941	80.5992
Sr 216.596	286.104	288.831	287.948
Ti 334.941	40.0675	40.7067	40.5528

Label	Replicates Concentration		
Tl 190.794	13.0758	13.7613	17.6845
V 292.401	40.0250	40.8006	40.8849
Zn 206.200	41.5277	43.1044	43.3612

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.7602	ppb	0.3245	1.5	1907.40
Al 308.215	2010.04	ppb	14.1319	0.7	15377.9
As 188.980	38.1455	ppb	2.3732	6.2	20.4082
B 249.678	86.1863	ppb	1.0271	1.2	1604.68
Ba 389.178	41.7914	ppb	0.6011	1.4	976.519
Be 313.042	20.4030	ppb	0.1476	0.7	41994.2
Ca 370.602	74986	ppb	562.3	0.7	225332
Cd 226.502	20.3281	ppb	0.1872	0.9	1032.37
Co 228.615	20.1621	ppb	0.5773	2.9	264.471
Cr 267.716	41.5664	ppb	0.3601	0.9	2553.82
Cu 324.754	41.8926	ppb	0.3531	0.8	3538.14
Fe 271.441	3251.93	ppb	28.2324	0.9	5757.16
K 766.491	3514.33	ppb	25.1517	0.7	157191
Mg 279.078	3535.31	ppb	20.8766	0.6	10195.8
Mn 257.610	249.701	ppb	1.6266	0.7	63923.8
Mo 202.032	39.3344	ppb	0.3604	0.9	312.126
Na 330.237	8259.27	ppb	194.424	2.4	436.726
Ni 231.604	40.4695	ppb	0.4746	1.2	132.528
Pb 220.353	204.202	ppb	0.7790	0.4	358.861
Sb 206.834	18.8591	ppb	2.2219	11.8	24.7931
Se 196.026	42.3888	ppb	5.0618	11.9	22.6202
Sn 189.925	79.0858	ppb	1.6099	2.0	59.8805
Sr 216.596	287.627	ppb	1.3914	0.5	4095.98
Ti 334.941	40.4423	ppb	0.3336	0.8	13736.2
Tl 190.794	14.8405	ppb	2.4867	16.8	9.9516
V 292.401	40.5702	ppb	0.4740	1.2	1148.04
Zn 206.200	42.6644	ppb	0.9928	2.3	52.9465

680-106741-j-8-c msd (Samp) **11/4/2014, 8:39:58 PM** **Rack 1, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.8295	21.6539	21.8175
Al 308.215	2046.79	2037.42	2046.41
As 188.980	37.4889	41.0547	40.9008
B 249.678	87.6949	87.5410	87.6909
Ba 389.178	41.9289	42.2575	41.8644
Be 313.042	20.7539	20.6937	20.7497
Ca 370.602	75329	75244	75149
Cd 226.502	20.7497	20.6179	20.5273
Co 228.615	20.4988	20.1261	20.5709
Cr 267.716	42.3355	42.1997	42.3684
Cu 324.754	42.6037	42.9252	42.7505
Fe 271.441	3296.23	3281.65	3296.46
K 766.491	3580.83	3562.57	3576.97
Mg 279.078	3576.59	3562.55	3571.05
Mn 257.610	253.219	252.530	253.407
Mo 202.032	39.6627	39.6836	40.2270
Na 330.237	8301.78	8152.96	8412.43

Label	Replicates Concentration		
Ni 231.604	39.9144	40.7565	40.0106
Pb 220.353	206.944	206.281	208.579
Sb 206.834	18.0219	22.0863	19.9370
Se 196.026	42.6653	37.9658	39.0587
Sn 189.925	83.9570	81.2007	76.4844
Sr 216.596	289.671	289.271	289.402
Ti 334.941	41.3499	41.1285	41.3603
Tl 190.794	17.0765	16.2910	15.9722
V 292.401	41.2633	40.5206	41.0218
Zn 206.200	42.9740	41.4088	43.2704

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.7670	ppb	0.0981	0.5	1907.97
Al 308.215	2043.54	ppb	5.3030	0.3	15625.9
As 188.980	39.8148	ppb	2.0157	5.1	21.4950
B 249.678	87.6423	ppb	0.0877	0.1	1629.73
Ba 389.178	42.0169	ppb	0.2108	0.5	982.214
Be 313.042	20.7324	ppb	0.0336	0.2	42675.5
Ca 370.602	75241	ppb	89.94	0.1	226097
Cd 226.502	20.6316	ppb	0.1118	0.5	1047.34
Co 228.615	20.3986	ppb	0.2388	1.2	267.568
Cr 267.716	42.3012	ppb	0.0894	0.2	2598.15
Cu 324.754	42.7598	ppb	0.1610	0.4	3606.31
Fe 271.441	3291.45	ppb	8.4838	0.3	5826.94
K 766.491	3573.46	ppb	9.6237	0.3	159831
Mg 279.078	3570.06	ppb	7.0669	0.2	10295.8
Mn 257.610	253.052	ppb	0.4617	0.2	64780.2
Mo 202.032	39.8577	ppb	0.3200	0.8	316.160
Na 330.237	8289.06	ppb	130.202	1.6	438.165
Ni 231.604	40.2272	ppb	0.4609	1.1	131.709
Pb 220.353	207.268	ppb	1.1830	0.6	364.138
Sb 206.834	20.0151	ppb	2.0333	10.2	26.5788
Se 196.026	39.8966	ppb	2.4593	6.2	21.4323
Sn 189.925	80.5474	ppb	3.7789	4.7	61.0724
Sr 216.596	289.448	ppb	0.2039	0.1	4121.86
Ti 334.941	41.2796	ppb	0.1309	0.3	14020.0
Tl 190.794	16.4466	ppb	0.5683	3.5	11.8424
V 292.401	40.9352	ppb	0.3788	0.9	1158.44
Zn 206.200	42.5511	ppb	1.0003	2.4	52.8037

680-106741-j-9-a (Samp) **11/4/2014, 8:44:14 PM** **Rack 1, Tube 32**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1234u	-0.1302u	-0.1143u
Al 308.215	2.1451	2.1581	3.0545
As 188.980	-5.5277u	-2.1481u	1.2205
B 249.678	11.9612	11.5600	11.0842
Ba 389.178	0.7354	0.0343	0.5538
Be 313.042	-0.0639u	-0.0646u	-0.0657u
Ca 370.602	74796	74895	75050
Cd 226.502	-0.1386u	-0.2097u	-0.0931
Co 228.615	0.0004	-0.4479u	-0.3938u
Cr 267.716	-0.1188u	-0.0551u	-0.1706u

Label	Replicates Concentration		
Cu 324.754	-0.3437u	-0.1386u	0.1461
Fe 271.441	1257.32	1254.35	1251.91
K 766.491	2093.63	2088.84	2098.42
Mg 279.078	1725.23	1724.12	1728.51
Mn 257.610	48.0687	47.9098	47.9643
Mo 202.032	-0.2337u	-0.4061u	-0.5084u
Na 330.237	8930.61	8793.82	8874.68
Ni 231.604	-0.8135u	0.4422	0.2463
Pb 220.353	1.4425	-1.0854u	-0.9932u
Sb 206.834	-0.6253u	0.0538	1.7055
Se 196.026	14.9797	2.1363	-3.9707u
Sn 189.925	-1.5547u	-2.5200u	-1.0548u
Sr 216.596	195.000	193.715	193.537
Ti 334.941	-0.0566u	-0.0523u	-0.0977u
Tl 190.794	-1.7408u	-1.4018u	-1.1397u
V 292.401	-0.4713u	-0.7302u	-0.4763u
Zn 206.200	2.8887	3.3164	1.3175

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1227	ppb	0.0080	6.5	-19.3252
Al 308.215	2.4526	ppb	0.5213	21.3	519.289
As 188.980	-2.1518	ppb	3.3741	156.8	-5.8279
B 249.678	11.5351	ppb	0.4390	3.8	320.979
Ba 389.178	0.4411	ppb	0.3639	82.5	-56.8390
Be 313.042	-0.0647	ppb	0.0009	1.4	-328.039
Ca 370.602	74913	ppb	128.0	0.2	225114
Cd 226.502	-0.1471	ppb	0.0588	40.0	25.0228
Co 228.615	-0.2804	ppb	0.2447	87.3	-2.5637
Cr 267.716	-0.1148	ppb	0.0579	50.4	39.4124
Cu 324.754	-0.1121	ppb	0.2459	219.4	235.757
Fe 271.441	1254.53	ppb	2.7124	0.2	2229.70
K 766.491	2093.63	ppb	4.7903	0.2	93752.3
Mg 279.078	1725.95	ppb	2.2793	0.1	4989.69
Mn 257.610	47.9809	ppb	0.0807	0.2	12373.4
Mo 202.032	-0.3827	ppb	0.1389	36.3	5.9700
Na 330.237	8866.37	ppb	68.7735	0.8	468.085
Ni 231.604	-0.0417	ppb	0.6756	1620.6	-5.0157
Pb 220.353	-0.2120	ppb	1.4336	676.1	7.0612
Sb 206.834	0.3780	ppb	1.1988	317.1	-3.6124
Se 196.026	4.3818	ppb	9.6727	220.7	4.4077
Sn 189.925	-1.7098	ppb	0.7448	43.6	-6.0070
Sr 216.596	194.084	ppb	0.7981	0.4	2777.14
Ti 334.941	-0.0689	ppb	0.0251	36.4	4.4615
Tl 190.794	-1.4274	ppb	0.3014	21.1	-9.0536
V 292.401	-0.5593	ppb	0.1481	26.5	-28.4509
Zn 206.200	2.5076	ppb	1.0525	42.0	4.3088

680-106741-j-9-aSD^5 (Samp) **11/4/2014, 8:48:30 PM** **Rack 1, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1011u	-0.0361u	-0.0868u
Al 308.215	1.5502	-2.1522u	1.7320
As 188.980	-5.4217u	-0.1095u	3.7854

Label	Replicates Concentration		
B 249.678	-0.9003u	-1.1558u	-0.6817u
Ba 389.178	-0.1417u	-0.2524u	-0.0316u
Be 313.042	-0.0495u	-0.0498u	-0.0446u
Ca 370.602	14721	14689	14614
Cd 226.502	-0.0465u	-0.1171u	-0.0492u
Co 228.615	0.0160	0.2002	0.0371
Cr 267.716	-0.2412u	-0.2208u	-0.2070u
Cu 324.754	-0.1606u	-0.5233u	-0.0533u
Fe 271.441	254.753	253.130	249.415
K 766.491	401.835	401.034	400.201
Mg 279.078	343.301	346.026	340.819
Mn 257.610	9.5452	9.5187	9.4686
Mo 202.032	-0.3679u	-0.5796u	-0.3193u
Na 330.237	1854.60	1738.49	1762.38
Ni 231.604	-0.2944u	0.3462	-0.4038u
Pb 220.353	-1.8514u	1.2693	1.8713
Sb 206.834	-1.3834u	-0.8146u	0.1001
Se 196.026	-4.1115u	3.5427	5.2106
Sn 189.925	-0.0331u	-2.2882u	-0.2459u
Sr 216.596	39.0611	39.1104	38.1874
Ti 334.941	-0.0334u	-0.0359u	-0.0173u
Tl 190.794	-0.0791u	-1.1696u	2.0499
V 292.401	-0.2036u	-0.3858u	-0.4181u
Zn 206.200	1.2197	0.8205	0.6994

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0747	ppb	0.0342	45.8	-9.4062
Al 308.215	0.3767	ppb	2.1919	581.9	502.082
As 188.980	-0.5819	ppb	4.6217	794.2	-4.7994
B 249.678	-0.9126	ppb	0.2373	26.0	108.537
Ba 389.178	-0.1419	ppb	0.1104	77.8	-74.1105
Be 313.042	-0.0480	ppb	0.0030	6.2	-315.626
Ca 370.602	14675	ppb	54.53	0.4	44127
Cd 226.502	-0.0709	ppb	0.0400	56.4	24.2232
Co 228.615	0.0844	ppb	0.1008	119.3	2.1245
Cr 267.716	-0.2230	ppb	0.0172	7.7	31.9863
Cu 324.754	-0.2457	ppb	0.2463	100.2	224.794
Fe 271.441	252.433	ppb	2.7368	1.1	461.679
K 766.491	401.023	ppb	0.8169	0.2	18172.5
Mg 279.078	343.382	ppb	2.6048	0.8	1008.45
Mn 257.610	9.5108	ppb	0.0389	0.4	2529.80
Mo 202.032	-0.4223	ppb	0.1384	32.8	5.7181
Na 330.237	1785.16	ppb	61.3155	3.4	120.941
Ni 231.604	-0.1173	ppb	0.4052	345.4	-5.3663
Pb 220.353	0.4297	ppb	1.9983	465.0	8.0839
Sb 206.834	-0.6993	ppb	0.7484	107.0	-5.3127
Se 196.026	1.5473	ppb	4.9711	321.3	3.0319
Sn 189.925	-0.8557	ppb	1.2451	145.5	-5.3130
Sr 216.596	38.7863	ppb	0.5193	1.3	561.551
Ti 334.941	-0.0289	ppb	0.0101	35.0	15.7219
Tl 190.794	0.2671	ppb	1.6374	613.1	-6.9300
V 292.401	-0.3358	ppb	0.1157	34.4	-22.3740
Zn 206.200	0.9132	ppb	0.2723	29.8	2.4196

680-106741-j-9-aPDS (Samp) **11/4/2014, 8:52:47 PM** **Rack 1, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	99.9194	100.118	100.961
Al 308.215	988.561	987.064	989.754
As 188.980	98.3379	98.9640	95.1771
B 249.678	206.061	207.297	208.386
Ba 389.178	84.8574	85.6799	85.8490
Be 313.042	98.2880	97.8488	97.9694
Ca 370.602	84535	83929	84266
Cd 226.502	98.1483	98.3166	98.1958
Co 228.615	98.7444	98.7033	99.4836
Cr 267.716	102.625	102.417	102.593
Cu 324.754	101.798	102.783	102.769
Fe 271.441	11120.5	11091.2	11117.4
K 766.491	12816.3	12762.8	12772.5
Mg 279.078	11471.9	11439.9	11486.7
Mn 257.610	1077.69	1075.80	1077.65
Mo 202.032	96.4882	96.7834	98.1441
Na 330.237	17791.7	17463.0	17515.8
Ni 231.604	97.8720	97.4211	98.2049
Pb 220.353	103.882	102.549	101.429
Sb 206.834	97.1275	94.8856	94.8519
Se 196.026	95.6246	96.9043	94.7109
Sn 189.925	93.5834	94.3806	95.1839
Sr 216.596	290.316	288.764	290.671
Ti 334.941	99.4691	99.1523	99.1666
Tl 190.794	15.7534	20.6179	17.2480
V 292.401	99.1156	98.3996	98.3455
Zn 206.200	101.894	98.2464	102.858

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	100.333	ppb	0.5530	0.6	8837.47
Al 308.215	988.460	ppb	1.3480	0.1	7846.54
As 188.980	97.4930	ppb	2.0299	2.1	58.9752
B 249.678	207.248	ppb	1.1632	0.6	3676.17
Ba 389.178	85.4621	ppb	0.5305	0.6	2080.90
Be 313.042	98.0354	ppb	0.2269	0.2	202529
Ca 370.602	84243	ppb	303.8	0.4	253096
Cd 226.502	98.2203	ppb	0.0867	0.1	4865.57
Co 228.615	98.9771	ppb	0.4391	0.4	1294.64
Cr 267.716	102.545	ppb	0.1119	0.1	6237.49
Cu 324.754	102.450	ppb	0.5645	0.6	8301.48
Fe 271.441	11109.7	ppb	16.0704	0.1	19632.7
K 766.491	12783.9	ppb	28.4791	0.2	571104
Mg 279.078	11466.2	ppb	23.9157	0.2	33020.5
Mn 257.610	1077.05	ppb	1.0774	0.1	275359
Mo 202.032	97.1386	ppb	0.8832	0.9	757.444
Na 330.237	17590.2	ppb	176.509	1.0	891.012
Ni 231.604	97.8327	ppb	0.3933	0.4	327.621
Pb 220.353	102.620	ppb	1.2280	1.2	184.771
Sb 206.834	95.6217	ppb	1.3042	1.4	143.331
Se 196.026	95.7466	ppb	1.1018	1.2	48.3896
Sn 189.925	94.3826	ppb	0.8003	0.8	72.3584
Sr 216.596	289.917	ppb	1.0145	0.3	4140.79

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	99.2627	ppb	0.1789	0.2	33684.3
Tl 190.794	17.8731	ppb	2.4918	13.9	12.9968
V 292.401	98.6202	ppb	0.4299	0.4	2810.17
Zn 206.200	100.999	ppb	2.4324	2.4	123.343

680-106721-f-1-a (Samp) **11/4/2014, 8:57:05 PM** **Rack 1, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0973u	-0.0414u	-0.3344u
Al 308.215	8.2164	8.1383	7.8159
As 188.980	-3.5121u	-0.7027u	-1.8354u
B 249.678	69.2858	70.1053	69.0474
Ba 389.178	1.8130	2.2471	2.0581
Be 313.042	-0.0407u	-0.0396u	-0.0372u
Ca 370.602	16923	16824	16770
Cd 226.502	-0.1732u	-0.3022u	-0.0348u
Co 228.615	-0.3572u	-0.8597u	-0.4890u
Cr 267.716	-0.2678u	0.0264	-0.1476u
Cu 324.754	1.7708	2.0641	1.6138
Fe 271.441	76.6497	70.7518	76.4645
K 766.491	2872.01	2873.58	2878.69
Mg 279.078	10101.9	10050.0	10030.3
Mn 257.610	3.5267	3.5266	3.6186
Mo 202.032	3.0438	2.6236	2.9151
Na 330.237	26285.5	26228.5	26279.1
Ni 231.604	0.6977	0.7923	1.3387
Pb 220.353	-0.6578u	0.6931	0.4920
Sb 206.834	0.1598	0.5661	-0.7315u
Se 196.026	4.8317	5.4739	0.3431
Sn 189.925	-2.5310u	0.6136	-0.9172u
Sr 216.596	453.666	452.919	451.043
Ti 334.941	0.1318	0.1126	0.1516
Tl 190.794	2.3455	-0.6731u	0.7964
V 292.401	-0.0971u	-0.2130u	-0.1244u
Zn 206.200	8.3860	7.6041	9.6899

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1577	ppb	0.1555	98.6	-31.6082
Al 308.215	8.0568	ppb	0.2123	2.6	558.769
As 188.980	-2.0167	ppb	1.4135	70.1	-5.7333
B 249.678	69.4795	ppb	0.5549	0.8	1323.71
Ba 389.178	2.0394	ppb	0.2177	10.7	-4.7685
Be 313.042	-0.0392	ppb	0.0018	4.7	-300.766
Ca 370.602	16839	ppb	77.24	0.5	50632
Cd 226.502	-0.1701	ppb	0.1337	78.6	18.5482
Co 228.615	-0.5686	ppb	0.2605	45.8	-6.5156
Cr 267.716	-0.1297	ppb	0.1479	114.1	38.0389
Cu 324.754	1.8163	ppb	0.2285	12.6	386.863
Fe 271.441	74.6220	ppb	3.3529	4.5	147.868
K 766.491	2874.76	ppb	3.4932	0.1	128632
Mg 279.078	10060.7	ppb	36.9970	0.4	28996.4
Mn 257.610	3.5573	ppb	0.0531	1.5	1096.11
Mo 202.032	2.8609	ppb	0.2153	7.5	31.0483

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	26264.3	ppb	31.2130	0.1	1321.79
Ni 231.604	0.9429	ppb	0.3460	36.7	-1.7851
Pb 220.353	0.1757	ppb	0.7289	414.8	7.6278
Sb 206.834	-0.0019	ppb	0.6638	35624.1	-4.3023
Se 196.026	3.5496	ppb	2.7954	78.8	3.9835
Sn 189.925	-0.9448	ppb	1.5725	166.4	-5.3771
Sr 216.596	452.542	ppb	1.3516	0.3	6391.21
Ti 334.941	0.1320	ppb	0.0195	14.8	87.8572
Tl 190.794	0.8229	ppb	1.5095	183.4	-6.2653
V 292.401	-0.1448	ppb	0.0606	41.9	-17.5983
Zn 206.200	8.5600	ppb	1.0537	12.3	11.7375

680-106721-f-2-a (Samp) **11/4/2014, 9:01:21 PM** **Rack 1, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2699u	-0.1798u	-0.1383u
Al 308.215	5.1685	4.5715	4.7219
As 188.980	0.9397	-2.2729u	-2.7601u
B 249.678	68.6893	68.6501	68.0725
Ba 389.178	2.1557	2.5051	1.8935
Be 313.042	-0.0454u	-0.0446u	-0.0524u
Ca 370.602	16876	16887	16751
Cd 226.502	0.0251	-0.1692u	-0.1808u
Co 228.615	-0.1329u	-0.1866u	-0.7293u
Cr 267.716	-0.0753u	0.0371	-0.1486u
Cu 324.754	5.1881	5.1568	5.1046
Fe 271.441	68.7189	73.2914	73.7533
K 766.491	2886.52	2887.83	2880.69
Mg 279.078	10092.6	10090.5	10054.2
Mn 257.610	4.0813	4.0744	4.0705
Mo 202.032	2.4752	2.6041	3.0832
Na 330.237	26280.0	26503.5	26273.2
Ni 231.604	1.2595	1.3679	0.4845
Pb 220.353	1.0271	-0.5391u	2.6837
Sb 206.834	-1.1443u	-1.0203u	-3.8293u
Se 196.026	2.1573	0.2557	0.2831
Sn 189.925	-1.1139u	1.2883	-1.7440u
Sr 216.596	453.180	453.117	452.494
Ti 334.941	-0.0860u	-0.0870u	-0.0807u
Tl 190.794	-0.6387u	0.5288	-0.9410u
V 292.401	-0.1774u	-0.1386u	-0.2255u
Zn 206.200	12.1655	12.8472	12.6328

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1960	ppb	0.0673	34.3	-35.0193
Al 308.215	4.8207	ppb	0.3105	6.4	534.834
As 188.980	-1.3644	ppb	2.0103	147.3	-5.3086
B 249.678	68.4706	ppb	0.3454	0.5	1306.30
Ba 389.178	2.1848	ppb	0.3068	14.0	-1.1215
Be 313.042	-0.0475	ppb	0.0043	9.0	-317.961
Ca 370.602	16838	ppb	75.61	0.4	50628
Cd 226.502	-0.1083	ppb	0.1157	106.8	21.5494
Co 228.615	-0.3496	ppb	0.3299	94.4	-3.6599

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-0.0623	ppb	0.0936	150.2	42.1034
Cu 324.754	5.1499	ppb	0.0422	0.8	648.789
Fe 271.441	71.9212	ppb	2.7829	3.9	143.141
K 766.491	2885.01	ppb	3.7975	0.1	129090
Mg 279.078	10079.1	ppb	21.5877	0.2	29049.4
Mn 257.610	4.0754	ppb	0.0055	0.1	1228.62
Mo 202.032	2.7208	ppb	0.3204	11.8	29.9685
Na 330.237	26352.2	ppb	131.042	0.5	1326.00
Ni 231.604	1.0373	ppb	0.4818	46.4	-1.4659
Pb 220.353	1.0572	ppb	1.6116	152.4	9.1445
Sb 206.834	-1.9979	ppb	1.5872	79.4	-7.3835
Se 196.026	0.8987	ppb	1.0901	121.3	2.7187
Sn 189.925	-0.5232	ppb	1.6001	305.8	-5.0332
Sr 216.596	452.930	ppb	0.3791	0.1	6396.68
Ti 334.941	-0.0846	ppb	0.0034	4.0	14.5043
Tl 190.794	-0.3503	ppb	0.7762	221.6	-7.6478
V 292.401	-0.1805	ppb	0.0435	24.1	-18.6351
Zn 206.200	12.5485	ppb	0.3486	2.8	16.5930

Cont Calib Verif (CCV) **11/4/2014, 9:05:38 PM** **Rack 1, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	510.721	507.322	506.361
Al 308.215	4862.95	4846.69	4833.01
As 188.980	489.016	499.457	487.953
B 249.678	487.308	488.836	488.885
Ba 389.178	4983.62	4968.55	4952.77
Be 313.042	497.606	495.021	493.643
Ca 370.602	4901	4912	4902
Cd 226.502	498.870	497.934	497.710
Co 228.615	501.578	501.408	498.919
Cr 267.716	5087.50	5084.22	5070.45
Cu 324.754	5080.91	5050.55	5013.54
Fe 271.441	4936.09	4925.91	4925.13
K 766.491	10365.0	10323.3	10294.3
Mg 279.078	4918.35	4902.81	4894.45
Mn 257.610	5046.15	5032.13	5017.87
Mo 202.032	494.531	493.519	491.553
Na 330.237	7598.45	7220.87	7331.83
Ni 231.604	2485.65	2492.69	2466.99
Pb 220.353	506.676	505.877	506.755
Sb 206.834	955.618	957.815	954.760
Se 196.026	4987.67	4952.72	4978.84
Sn 189.925	4987.98	4972.29	4958.75
Sr 216.596	2476.18	2466.13	2465.29
Ti 334.941	493.707	492.453	491.188
Tl 190.794	5045.07	5026.59	5035.02
V 292.401	4905.82	4905.25	4892.35
Zn 206.200	2494.70	2499.85	2496.52

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	508.135	ppb	2.2907	0.5	44747.9	101.62694
Al 308.215	4847.55	ppb	14.9929	0.3	36927.2	96.95100

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	492.142	ppb	6.3570	1.3	315.918	98.42841
B 249.678	488.343	ppb	0.8968	0.2	8554.89	97.66856
Ba 389.178	4968.32	ppb	15.4276	0.3	123590	99.36633
Be 313.042	495.424	ppb	2.0119	0.4	1024509	99.08470
Ca 370.602	4905	ppb	6.244	0.1	15121	98.09966
Cd 226.502	498.172	ppb	0.6151	0.1	24335.6	99.63430
Co 228.615	500.635	ppb	1.4886	0.3	6548.53	100.12696
Cr 267.716	5080.73	ppb	9.0454	0.2	306318	101.61451
Cu 324.754	5048.33	ppb	33.7403	0.7	396847	100.96668
Fe 271.441	4929.04	ppb	6.1145	0.1	8837.59	98.58083
K 766.491	10327.5	ppb	35.5332	0.3	461420	103.27528
Mg 279.078	4905.20	ppb	12.1289	0.2	14035.5	98.10407
Mn 257.610	5032.05	ppb	14.1401	0.3	1285535	100.64098
Mo 202.032	493.201	ppb	1.5141	0.3	3806.39	98.64024
Na 330.237	7383.72	ppb	194.063	2.6	330.166	98.44956
Ni 231.604	2481.77	ppb	13.2817	0.5	8412.14	99.27100
Pb 220.353	506.436	ppb	0.4856	0.1	883.424	101.28726
Sb 206.834	956.064	ppb	1.5755	0.2	1527.52	95.60643
Se 196.026	4973.08	ppb	18.1748	0.4	2376.60	99.46152
Sn 189.925	4973.01	ppb	14.6257	0.3	4050.81	99.46018
Sr 216.596	2469.20	ppb	6.0622	0.2	34717.0	98.76807
Ti 334.941	492.449	ppb	1.2593	0.3	166906	98.48988
Tl 190.794	5035.56	ppb	9.2534	0.2	5943.77	100.71114
V 292.401	4901.14	ppb	7.6198	0.2	140760	98.02277
Zn 206.200	2497.03	ppb	2.6107	0.1	3023.14	99.88103

Cont Calib Blank (CCB) **11/4/2014, 9:09:52 PM** **Rack 1, Tube 38**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1815u	0.1224	-0.3188u
Al 308.215	-1.1650u	-0.6892u	-0.8108u
As 188.980	1.0617	-3.1602u	0.2203
B 249.678	2.4826	1.4324	1.6848
Ba 389.178	0.8123	0.3613	0.4701
Be 313.042	-0.0255u	-0.0202u	-0.0203u
Ca 370.602	-1.882u	5.154	3.494
Cd 226.502	-0.0405u	-0.0188u	-0.0607u
Co 228.615	-0.0107u	0.0713	-0.0050u
Cr 267.716	0.0147	0.0601	0.1331
Cu 324.754	-0.0181u	0.0323	0.1719
Fe 271.441	2.6934	-3.8924u	-2.5279u
K 766.491	0.4316	0.0907	0.3464
Mg 279.078	-0.4327u	-1.3650u	5.2401
Mn 257.610	0.1715	0.1780	0.1922
Mo 202.032	0.1512	0.1975	-0.0898u
Na 330.237	-28.5460u	-22.4204u	-113.727u
Ni 231.604	0.4358	0.3822	0.4271
Pb 220.353	-1.4947u	1.0324	2.0957
Sb 206.834	4.0750	3.2900	5.2859
Se 196.026	3.0083	2.5556	4.9873
Sn 189.925	-0.4203u	0.9197	2.0067
Sr 216.596	-0.2292u	0.1869	-0.1742u
Ti 334.941	-0.0379u	-0.0083u	0.0098

Label	Replicates Concentration		
Tl 190.794	1.8251	-1.0834u	1.6181
V 292.401	0.1245	-0.0414u	0.2936
Zn 206.200	-0.7364u	-0.9110u	0.5474

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1260	ppb	0.2258	179.2	-12.5066	-0.12597
Al 308.215	-0.8883	ppb	0.2472	27.8	492.328	-0.88835
As 188.980	-0.6260	ppb	2.2346	356.9	-4.8266	-0.62605
B 249.678	1.8666	ppb	0.5482	29.4	157.180	1.86660
Ba 389.178	0.5479	ppb	0.2354	43.0	-57.6287	0.54792
Be 313.042	-0.0220	ppb	0.0031	13.9	-267.432	-0.02202
Ca 370.602	2.255	ppb	3.678	163.1	44.32	2.25549
Cd 226.502	-0.0400	ppb	0.0209	52.4	24.5865	-0.03999
Co 228.615	0.0185	ppb	0.0458	247.1	1.2284	0.01854
Cr 267.716	0.0693	ppb	0.0597	86.2	49.3800	0.06930
Cu 324.754	0.0621	ppb	0.0984	158.6	248.877	0.06207
Fe 271.441	-1.2423	ppb	3.4760	279.8	14.0821	-1.24230
K 766.491	0.2896	ppb	0.1774	61.3	278.614	0.28956
Mg 279.078	1.1475	ppb	3.5749	311.5	22.9514	1.14749
Mn 257.610	0.1805	ppb	0.0106	5.9	142.312	0.18053
Mo 202.032	0.0863	ppb	0.1543	178.8	9.6533	0.08629
Na 330.237	-54.8979	ppb	51.0396	93.0	30.7338	-54.89787
Ni 231.604	0.4150	ppb	0.0288	6.9	-3.5838	0.41503
Pb 220.353	0.5445	ppb	1.8443	338.7	8.2604	0.54446
Sb 206.834	4.2170	ppb	1.0055	23.8	2.2629	4.21696
Se 196.026	3.5171	ppb	1.2932	36.8	3.9661	3.51706
Sn 189.925	0.8354	ppb	1.2157	145.5	-3.9345	0.83536
Sr 216.596	-0.0722	ppb	0.2260	313.2	7.2963	-0.07216
Ti 334.941	-0.0121	ppb	0.0241	198.4	20.8229	-0.01215
Tl 190.794	0.7866	ppb	1.6228	206.3	-6.2874	0.78659
V 292.401	0.1256	ppb	0.1675	133.4	-9.2793	0.12557
Zn 206.200	-0.3667	ppb	0.7964	217.2	0.8735	-0.36669

680-106721-f-3-a (Samp) **11/4/2014, 9:14:07 PM** **Rack 1, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3548u	0.0948u	-0.2425u
Al 308.215	9.2414	11.7930	10.4859
As 188.980	1.6413	-0.9116u	1.3323
B 249.678	65.4857	65.9130	65.2896
Ba 389.178	2.5253	2.1423	2.0861
Be 313.042	-0.0459u	-0.0454u	-0.0399u
Ca 370.602	16064	16014	15975
Cd 226.502	-0.1958u	-0.0907u	-0.1987u
Co 228.615	-0.5035u	-0.0801u	-0.2166u
Cr 267.716	-0.0032	-0.0128u	-0.2219u
Cu 324.754	2.0574	1.8991	1.7808
Fe 271.441	84.3191	86.7683	82.0940
K 766.491	2728.80	2737.44	2730.83
Mg 279.078	9619.23	9629.06	9615.32
Mn 257.610	5.0615	5.0562	5.0736
Mo 202.032	2.4848	2.8755	2.5257
Na 330.237	24852.5	25013.0	24909.3

Label	Replicates Concentration		
Ni 231.604	1.0675	1.8388	1.1847
Pb 220.353	1.0331	2.2057	0.1660
Sb 206.834	-0.8377u	-1.2501u	-0.4245u
Se 196.026	-1.5783u	-2.0074u	4.6794
Sn 189.925	-3.3304u	4.3961	-1.3887u
Sr 216.596	434.306	434.423	433.824
Ti 334.941	0.3090	0.3224	0.3185
Tl 190.794	-0.3081u	0.6421	-4.4502u
V 292.401	-0.1208u	-0.2997u	-0.2505u
Zn 206.200	4.0119	3.9518	4.9007

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1675	ppb	0.2340	139.7	-31.8078
Al 308.215	10.5068	ppb	1.2759	12.1	576.909
As 188.980	0.6873	ppb	1.3933	202.7	-3.9725
B 249.678	65.5628	ppb	0.3188	0.5	1256.08
Ba 389.178	2.2512	ppb	0.2390	10.6	-0.1728
Be 313.042	-0.0437	ppb	0.0033	7.7	-310.254
Ca 370.602	16018	ppb	44.87	0.3	48164
Cd 226.502	-0.1617	ppb	0.0615	38.0	19.0054
Co 228.615	-0.2667	ppb	0.2161	81.0	-2.5612
Cr 267.716	-0.0793	ppb	0.1236	155.8	41.0605
Cu 324.754	1.9124	ppb	0.1388	7.3	394.415
Fe 271.441	84.3938	ppb	2.3380	2.8	165.162
K 766.491	2732.36	ppb	4.5163	0.2	122273
Mg 279.078	9621.21	ppb	7.0788	0.1	27730.5
Mn 257.610	5.0638	ppb	0.0090	0.2	1477.01
Mo 202.032	2.6287	ppb	0.2147	8.2	29.2569
Na 330.237	24925.0	ppb	81.3712	0.3	1256.18
Ni 231.604	1.3637	ppb	0.4156	30.5	-0.3579
Pb 220.353	1.1349	ppb	1.0237	90.2	9.2792
Sb 206.834	-0.8374	ppb	0.4128	49.3	-5.5883
Se 196.026	0.3646	ppb	3.7429	1026.7	2.4642
Sn 189.925	-0.1077	ppb	4.0194	3732.2	-4.6948
Sr 216.596	434.184	ppb	0.3175	0.1	6132.23
Ti 334.941	0.3166	ppb	0.0069	2.2	149.639
Tl 190.794	-1.3720	ppb	2.7078	197.4	-8.8533
V 292.401	-0.2237	ppb	0.0924	41.3	-19.8258
Zn 206.200	4.2881	ppb	0.5313	12.4	6.5365

680-106721-f-4-a (Samp) **11/4/2014, 9:18:22 PM** **Rack 1, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3699u	0.1354u	-0.3968u
Al 308.215	5.2311	3.3744	4.6612
As 188.980	-0.1989u	-6.3024u	-5.9804u
B 249.678	66.7667	67.1013	66.4629
Ba 389.178	1.9253	2.5895	1.6867
Be 313.042	-0.0494u	-0.0506u	-0.0545u
Ca 370.602	16327	16389	16390
Cd 226.502	-0.1519u	-0.2852u	-0.1537u
Co 228.615	-0.0615u	-0.1737u	-0.2198u
Cr 267.716	-0.0384u	0.1258	-0.1572u

Label	Replicates Concentration		
Cu 324.754	0.2795	0.3608	0.1086
Fe 271.441	16.9347	11.6992	21.3295
K 766.491	2781.82	2776.30	2779.76
Mg 279.078	9801.15	9840.33	9822.62
Mn 257.610	0.8828	0.8811	0.8852
Mo 202.032	2.9024	2.9026	2.7128
Na 330.237	25211.9	25518.4	25538.0
Ni 231.604	1.1486	1.5722	2.1360
Pb 220.353	-0.4867u	-0.0981u	0.8985
Sb 206.834	2.8223	0.6695	1.8096
Se 196.026	5.3567	2.1431	3.5577
Sn 189.925	-2.2882u	-5.8038u	-1.4583u
Sr 216.596	442.611	441.733	440.690
Ti 334.941	-0.1921u	-0.1963u	-0.1944u
Tl 190.794	-2.7179u	-2.7466u	-1.2731u
V 292.401	-0.2372u	-0.2349u	-0.4300u
Zn 206.200	3.7662	2.3968	2.7622

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2105	ppb	0.2998	142.4	-35.8653
Al 308.215	4.4222	ppb	0.9511	21.5	531.786
As 188.980	-4.1606	ppb	3.4347	82.6	-7.1289
B 249.678	66.7770	ppb	0.3193	0.5	1277.26
Ba 389.178	2.0672	ppb	0.4678	22.6	-4.4872
Be 313.042	-0.0515	ppb	0.0027	5.2	-326.413
Ca 370.602	16369	ppb	36.15	0.2	49220
Cd 226.502	-0.1969	ppb	0.0765	38.8	16.9802
Co 228.615	-0.1517	ppb	0.0814	53.7	-1.0817
Cr 267.716	-0.0233	ppb	0.1421	610.3	44.3919
Cu 324.754	0.2496	ppb	0.1287	51.6	263.747
Fe 271.441	16.6545	ppb	4.8212	28.9	45.6381
K 766.491	2779.29	ppb	2.7883	0.1	124369
Mg 279.078	9821.37	ppb	19.6218	0.2	28307.1
Mn 257.610	0.8830	ppb	0.0020	0.2	410.618
Mo 202.032	2.8393	ppb	0.1095	3.9	30.8851
Na 330.237	25422.8	ppb	182.863	0.7	1280.67
Ni 231.604	1.6189	ppb	0.4954	30.6	0.5016
Pb 220.353	0.1046	ppb	0.7145	683.3	7.5007
Sb 206.834	1.7671	ppb	1.0770	60.9	-1.5750
Se 196.026	3.6858	ppb	1.6107	43.7	4.0471
Sn 189.925	-3.1834	ppb	2.3069	72.5	-7.2029
Sr 216.596	441.678	ppb	0.9613	0.2	6237.80
Ti 334.941	-0.1943	ppb	0.0021	1.1	-23.1403
Tl 190.794	-2.2459	ppb	0.8425	37.5	-9.8779
V 292.401	-0.3007	ppb	0.1120	37.2	-22.1308
Zn 206.200	2.9750	ppb	0.7091	23.8	4.9412

680-106721-f-5-a (Samp) **11/4/2014, 9:22:37 PM** **Rack 1, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1986u	0.2304	-0.3582u
Al 308.215	5.6061	6.5719	5.3871
As 188.980	1.5591	-3.8937u	0.6966

Label	Replicates Concentration		
B 249.678	66.8806	66.9289	66.4180
Ba 389.178	2.0066	2.2569	2.4028
Be 313.042	-0.0462u	-0.0548u	-0.0476u
Ca 370.602	16194	16133	16114
Cd 226.502	-0.0857u	-0.1148u	-0.0897u
Co 228.615	0.0616	-0.6688u	0.0691
Cr 267.716	-0.0167u	-0.0055	-0.0549u
Cu 324.754	11.1049	11.2369	11.0482
Fe 271.441	15.7729	15.0695	15.9461
K 766.491	2769.88	2769.39	2776.76
Mg 279.078	9858.74	9824.70	9818.54
Mn 257.610	-0.0873	-0.0815	-0.0557
Mo 202.032	3.0872	2.9863	3.0886
Na 330.237	25212.1	25321.5	25397.7
Ni 231.604	1.1573	1.4884	0.8821
Pb 220.353	-0.9794u	0.5190	2.7274
Sb 206.834	1.4405	-0.4542u	0.4723
Se 196.026	3.5712	-2.5205u	2.2021
Sn 189.925	-1.3273u	-0.7887u	-1.7717u
Sr 216.596	437.775	435.025	435.120
Ti 334.941	-0.2300u	-0.1799u	-0.2025u
Tl 190.794	0.6191	-1.0416u	0.5722
V 292.401	-0.0142u	-0.0726u	-0.2211u
Zn 206.200	8.8722	9.6362	10.7941

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1088	ppb	0.3044	279.8	-26.6986
Al 308.215	5.8550	ppb	0.6304	10.8	542.396
As 188.980	-0.5460	ppb	2.9310	536.8	-4.7754
B 249.678	66.7425	ppb	0.2821	0.4	1276.62
Ba 389.178	2.2221	ppb	0.2004	9.0	-0.6096
Be 313.042	-0.0496	ppb	0.0046	9.3	-322.414
Ca 370.602	16147	ppb	41.84	0.3	48554
Cd 226.502	-0.0967	ppb	0.0158	16.3	21.8701
Co 228.615	-0.1794	ppb	0.4239	236.3	-1.4490
Cr 267.716	-0.0257	ppb	0.0259	100.8	44.2332
Cu 324.754	11.1300	ppb	0.0968	0.9	1118.64
Fe 271.441	15.5962	ppb	0.4642	3.0	43.7751
K 766.491	2772.01	ppb	4.1173	0.1	124044
Mg 279.078	9833.99	ppb	21.6500	0.2	28343.5
Mn 257.610	-0.0748	ppb	0.0168	22.5	166.072
Mo 202.032	3.0540	ppb	0.0587	1.9	32.5411
Na 330.237	25310.4	ppb	93.3326	0.4	1274.98
Ni 231.604	1.1759	ppb	0.3035	25.8	-1.0011
Pb 220.353	0.7557	ppb	1.8647	246.8	8.6205
Sb 206.834	0.4862	ppb	0.9474	194.9	-3.5546
Se 196.026	1.0842	ppb	3.1960	294.8	2.8054
Sn 189.925	-1.2959	ppb	0.4922	38.0	-5.6637
Sr 216.596	435.973	ppb	1.5606	0.4	6157.39
Ti 334.941	-0.2041	ppb	0.0251	12.3	-26.4353
Tl 190.794	0.0499	ppb	0.9456	1895.9	-7.1705
V 292.401	-0.1026	ppb	0.1067	103.9	-16.4483
Zn 206.200	9.7675	ppb	0.9677	9.9	13.2102

680-106722-n-8-a (Samp) **11/4/2014, 9:26:53 PM** **Rack 1, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0699u	-0.1762u	-0.1822u
Al 308.215	3.3751	3.2382	5.6760
As 188.980	-0.3694u	3.5662	-1.3430u
B 249.678	9.2094	8.1684	8.8651
Ba 389.178	5.7793	5.3811	5.8955
Be 313.042	-0.0620u	-0.0695u	-0.0609u
Ca 370.602	62560	62942	62914
Cd 226.502	-0.1398u	-0.1187u	-0.0206
Co 228.615	-0.7269u	0.2033	-0.2743u
Cr 267.716	-0.1537u	-0.1294u	-0.2619u
Cu 324.754	48.7524	48.8991	49.4848
Fe 271.441	483.388	495.893	494.943
K 766.491	968.197	977.297	972.020
Mg 279.078	1155.87	1161.09	1159.95
Mn 257.610	11.2368	11.3017	11.2899
Mo 202.032	0.5110	0.5056	0.1421
Na 330.237	6269.59	6343.68	6295.06
Ni 231.604	-0.5174u	0.7062	0.1770
Pb 220.353	0.2182	1.7064	0.7989
Sb 206.834	-1.2728u	0.1304	-2.2251u
Se 196.026	-0.7626u	2.1578	-1.9372u
Sn 189.925	-4.2556u	-1.5370u	-1.0049u
Sr 216.596	221.532	223.016	222.192
Ti 334.941	-0.0354u	-0.0624u	-0.0202u
Tl 190.794	0.9973	1.8985	-0.1221u
V 292.401	-0.4064u	-0.4348u	-0.2880u
Zn 206.200	3.7585	4.9510	3.3917

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0962	ppb	0.1438	149.6	-18.0460
Al 308.215	4.0964	ppb	1.3697	33.4	530.114
As 188.980	0.6179	ppb	2.5993	420.6	-4.0198
B 249.678	8.7476	ppb	0.5303	6.1	274.685
Ba 389.178	5.6853	ppb	0.2697	4.7	72.3186
Be 313.042	-0.0642	ppb	0.0047	7.3	-331.032
Ca 370.602	62805	ppb	212.8	0.3	188742
Cd 226.502	-0.0930	ppb	0.0636	68.4	24.2047
Co 228.615	-0.2660	ppb	0.4651	174.9	-2.4606
Cr 267.716	-0.1816	ppb	0.0706	38.8	34.7162
Cu 324.754	49.0455	ppb	0.3875	0.8	4097.83
Fe 271.441	491.408	ppb	6.9620	1.4	883.277
K 766.491	972.505	ppb	4.5689	0.5	43690.9
Mg 279.078	1158.97	ppb	2.7458	0.2	3357.46
Mn 257.610	11.2762	ppb	0.0346	0.3	2989.63
Mo 202.032	0.3862	ppb	0.2114	54.7	11.9407
Na 330.237	6302.78	ppb	37.6449	0.6	342.431
Ni 231.604	0.1219	ppb	0.6137	503.2	-4.5317
Pb 220.353	0.9078	ppb	0.7500	82.6	8.9230
Sb 206.834	-1.1225	ppb	1.1849	105.6	-5.9729
Se 196.026	-0.1807	ppb	2.1086	1167.1	2.2111
Sn 189.925	-2.2658	ppb	1.7436	77.0	-6.4613
Sr 216.596	222.247	ppb	0.7433	0.3	3167.71

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	-0.0393	ppb	0.0214	54.4	13.4557
Tl 190.794	0.9246	ppb	1.0123	109.5	-6.1916
V 292.401	-0.3764	ppb	0.0779	20.7	-23.6249
Zn 206.200	4.0337	ppb	0.8152	20.2	6.2061

680-106722-n-9-a (Samp) **11/4/2014, 9:31:09 PM** **Rack 1, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1697u	0.0008u	-0.1856u
Al 308.215	84.0556	84.7275	84.6897
As 188.980	3.7838	-3.0550u	-3.2074u
B 249.678	8.4876	8.6576	8.5519
Ba 389.178	4.7818	3.7295	5.3999
Be 313.042	-0.0490u	-0.0524u	-0.0538u
Ca 370.602	23081	22985	22976
Cd 226.502	-0.1082u	0.0473	-0.0882u
Co 228.615	-0.4328u	-0.5110u	0.2842
Cr 267.716	0.0377	0.1134	0.0045
Cu 324.754	1.7432	1.7878	1.6358
Fe 271.441	19.0270	26.4795	18.4509
K 766.491	1156.70	1155.77	1154.23
Mg 279.078	1994.19	1988.58	1988.10
Mn 257.610	0.5487	0.5586	0.5424
Mo 202.032	-0.2782u	-0.2984u	-0.5000u
Na 330.237	10053.3	9908.47	9911.02
Ni 231.604	0.8401	0.0841	0.5433
Pb 220.353	0.1566	-0.7510u	0.9665
Sb 206.834	-1.0485u	0.2296	0.3070
Se 196.026	-6.0763u	2.3917	5.7861
Sn 189.925	-3.1155u	-0.6531u	0.1870
Sr 216.596	112.734	112.257	112.822
Ti 334.941	-0.0113u	-0.0395u	-0.0077
Tl 190.794	-0.8673u	-0.3730u	-1.4761u
V 292.401	0.1652	0.0139	0.2109
Zn 206.200	4.3258	3.9046	2.5547

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1182	ppb	0.1033	87.4	-15.9099
Al 308.215	84.4910	ppb	0.3775	0.4	1123.82
As 188.980	-0.8262	ppb	3.9931	483.3	-4.9561
B 249.678	8.5657	ppb	0.0858	1.0	272.658
Ba 389.178	4.6371	ppb	0.8445	18.2	47.2409
Be 313.042	-0.0517	ppb	0.0025	4.8	-321.341
Ca 370.602	23014	ppb	58.40	0.3	69187
Cd 226.502	-0.0497	ppb	0.0846	170.2	24.1733
Co 228.615	-0.2199	ppb	0.4383	199.3	-1.8703
Cr 267.716	0.0519	ppb	0.0558	107.7	48.5694
Cu 324.754	1.7222	ppb	0.0781	4.5	379.312
Fe 271.441	21.3191	ppb	4.4783	21.0	53.8856
K 766.491	1155.56	ppb	1.2473	0.1	51865.0
Mg 279.078	1990.29	ppb	3.3886	0.2	5752.02
Mn 257.610	0.5499	ppb	0.0082	1.5	254.982
Mo 202.032	-0.3589	ppb	0.1227	34.2	6.2188

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	9957.59	ppb	82.8883	0.8	521.880
Ni 231.604	0.4892	ppb	0.3809	77.9	-3.3301
Pb 220.353	0.1240	ppb	0.8592	692.8	7.5381
Sb 206.834	-0.1706	ppb	0.7613	446.2	-4.5030
Se 196.026	0.7005	ppb	6.1094	872.1	2.6225
Sn 189.925	-1.1939	ppb	1.7164	143.8	-5.5858
Sr 216.596	112.604	ppb	0.3037	0.3	1604.78
Ti 334.941	-0.0195	ppb	0.0174	89.5	21.4668
Tl 190.794	-0.9055	ppb	0.5526	61.0	-8.2850
V 292.401	0.1300	ppb	0.1031	79.3	-9.1336
Zn 206.200	3.5950	ppb	0.9253	25.7	5.6953

680-106722-n-10-a (Samp) **11/4/2014, 9:35:25 PM** **Rack 1, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2451u	-0.3017u	-0.2777u
Al 308.215	10.5688	9.3467	8.8174
As 188.980	-1.1518u	-2.7325u	0.2534
B 249.678	7.2273	7.3501	7.3911
Ba 389.178	15.1282	15.7494	16.0385
Be 313.042	-0.0702u	-0.0659u	-0.0692u
Ca 370.602	84073	83773	83560
Cd 226.502	-0.0395	-0.0489	-0.0150
Co 228.615	-0.2716u	-0.6248u	-0.3682u
Cr 267.716	0.1564	0.1433	0.1019
Cu 324.754	1.0766	0.9796	1.0421
Fe 271.441	1011.17	1006.32	1006.23
K 766.491	1139.57	1135.72	1133.54
Mg 279.078	1631.28	1627.22	1623.78
Mn 257.610	25.2582	25.2538	25.1971
Mo 202.032	-0.7156u	-0.4741u	-0.5738u
Na 330.237	7047.83	7235.85	7157.03
Ni 231.604	0.9385	-0.2926u	-0.1717u
Pb 220.353	1.3588	1.6150	-1.0744u
Sb 206.834	-1.1447u	1.1135	-1.8294u
Se 196.026	2.4559	-3.2355u	-6.1813u
Sn 189.925	-0.4210u	-1.9482u	-1.9206u
Sr 216.596	270.382	269.889	269.927
Ti 334.941	0.2256	0.1795	0.1338
Tl 190.794	-1.4584u	-1.5270u	1.5631
V 292.401	-0.1665u	-0.2620u	-0.3873u
Zn 206.200	0.9061	4.1347	3.4782

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2748	ppb	0.0284	10.3	-35.5219
Al 308.215	9.5776	ppb	0.8983	9.4	571.539
As 188.980	-1.2103	ppb	1.4938	123.4	-5.2132
B 249.678	7.3228	ppb	0.0852	1.2	248.855
Ba 389.178	15.6387	ppb	0.4651	3.0	321.047
Be 313.042	-0.0684	ppb	0.0022	3.3	-331.919
Ca 370.602	83802	ppb	258.1	0.3	251823
Cd 226.502	-0.0345	ppb	0.0175	50.7	29.4068
Co 228.615	-0.4215	ppb	0.1826	43.3	-4.4180

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.1339	ppb	0.0284	21.2	54.1077
Cu 324.754	1.0328	ppb	0.0491	4.8	325.588
Fe 271.441	1007.91	ppb	2.8300	0.3	1794.56
K 766.491	1136.28	ppb	3.0507	0.3	51003.7
Mg 279.078	1627.43	ppb	3.7538	0.2	4706.40
Mn 257.610	25.2364	ppb	0.0340	0.1	6561.93
Mo 202.032	-0.5878	ppb	0.1214	20.6	4.4013
Na 330.237	7146.90	ppb	94.4153	1.3	383.757
Ni 231.604	0.1581	ppb	0.6786	429.3	-4.3609
Pb 220.353	0.6331	ppb	1.4843	234.4	8.4925
Sb 206.834	-0.6202	ppb	1.5400	248.3	-5.1575
Se 196.026	-2.3203	ppb	4.3908	189.2	1.2007
Sn 189.925	-1.4299	ppb	0.8739	61.1	-5.7793
Sr 216.596	270.066	ppb	0.2743	0.1	3851.06
Ti 334.941	0.1796	ppb	0.0459	25.6	88.6091
Tl 190.794	-0.4741	ppb	1.7646	372.2	-7.9054
V 292.401	-0.2719	ppb	0.1107	40.7	-20.2542
Zn 206.200	2.8397	ppb	1.7064	60.1	4.7250

680-106772-j-11-a (Samp) **11/4/2014, 9:39:41 PM** **Rack 1, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3506u	0.2861	-0.2267u
Al 308.215	3.9159	3.0183	3.8524
As 188.980	-0.4271u	1.3918	-2.6137u
B 249.678	4.5546	4.7925	4.4668
Ba 389.178	7.6085	8.2917	8.4102
Be 313.042	-0.0598u	-0.0624u	-0.0588u
Ca 370.602	53662	53840	53628
Cd 226.502	-0.0763u	-0.0406u	0.1005
Co 228.615	-0.4025u	-0.3852u	-0.3930u
Cr 267.716	-0.1266u	-0.0848u	-0.2562u
Cu 324.754	-0.0335u	0.2372	0.2266
Fe 271.441	201.418	195.004	194.419
K 766.491	522.624	522.815	521.105
Mg 279.078	1243.11	1247.64	1244.74
Mn 257.610	5.3282	5.3313	5.3395
Mo 202.032	-0.1898u	-0.6435u	-0.2965u
Na 330.237	5140.40	4984.29	5149.57
Ni 231.604	0.4269	0.4616	0.5828
Pb 220.353	0.6524	1.3634	1.0827
Sb 206.834	-0.6676u	3.7654	2.9644
Se 196.026	4.6352	4.2045	1.7087
Sn 189.925	-5.0791u	-1.9074u	-0.9069u
Sr 216.596	139.055	139.322	138.211
Ti 334.941	-0.0741u	-0.0689u	-0.0375u
Tl 190.794	1.6224	0.9604	3.2431
V 292.401	-0.2788u	-0.4277u	-0.5383u
Zn 206.200	4.0032	3.8450	4.3874

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0971	ppb	0.3376	347.7	-15.0697
Al 308.215	3.5956	ppb	0.5009	13.9	525.797

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-0.5496	ppb	2.0056	364.9	-4.7779
B 249.678	4.6046	ppb	0.1685	3.7	203.936
Ba 389.178	8.1035	ppb	0.4327	5.3	132.444
Be 313.042	-0.0603	ppb	0.0019	3.1	-326.630
Ca 370.602	53710	ppb	114.0	0.2	161416
Cd 226.502	-0.0055	ppb	0.0935	1713.1	27.1389
Co 228.615	-0.3936	ppb	0.0087	2.2	-4.1257
Cr 267.716	-0.1559	ppb	0.0894	57.4	36.0541
Cu 324.754	0.1434	ppb	0.1533	106.9	255.345
Fe 271.441	196.947	ppb	3.8828	2.0	363.722
K 766.491	522.181	ppb	0.9373	0.2	23582.6
Mg 279.078	1245.17	ppb	2.2953	0.2	3605.85
Mn 257.610	5.3330	ppb	0.0058	0.1	1471.12
Mo 202.032	-0.3766	ppb	0.2372	63.0	6.0734
Na 330.237	5091.42	ppb	92.8871	1.8	283.084
Ni 231.604	0.4904	ppb	0.0819	16.7	-3.3092
Pb 220.353	1.0328	ppb	0.3581	34.7	9.1165
Sb 206.834	2.0207	ppb	2.3623	116.9	-1.1158
Se 196.026	3.5161	ppb	1.5800	44.9	3.9696
Sn 189.925	-2.6311	ppb	2.1782	82.8	-6.7596
Sr 216.596	138.863	ppb	0.5803	0.4	1988.32
Ti 334.941	-0.0602	ppb	0.0198	33.0	6.6461
Tl 190.794	1.9420	ppb	1.1744	60.5	-4.9494
V 292.401	-0.4149	ppb	0.1302	31.4	-24.6963
Zn 206.200	4.0785	ppb	0.2789	6.8	6.2758

680-106722-n-15-a (Samp) **11/4/2014, 9:43:58 PM** **Rack 1, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2006u	-0.1233u	-0.0810u
Al 308.215	3.6890	6.1696	5.8221
As 188.980	1.0267	-0.8915u	-0.0120u
B 249.678	6.6347	6.8072	6.5856
Ba 389.178	12.0162	12.1841	10.3512
Be 313.042	-0.0655u	-0.0599u	-0.0687u
Ca 370.602	74304	74167	74234
Cd 226.502	-0.1292u	-0.2088u	-0.0947u
Co 228.615	-0.1396u	-0.1657u	-0.4488u
Cr 267.716	0.1096	0.0544	-0.0826u
Cu 324.754	0.0366	0.3766	0.4236
Fe 271.441	433.201	425.055	427.587
K 766.491	752.847	754.959	754.216
Mg 279.078	1697.48	1697.54	1702.67
Mn 257.610	15.7584	15.6615	15.6465
Mo 202.032	-0.4475u	-0.4834u	-0.3187u
Na 330.237	7043.59	6958.25	6988.43
Ni 231.604	-0.2823u	1.3915	0.0078
Pb 220.353	0.4680	0.6000	-2.0303u
Sb 206.834	-3.4676u	-3.6432u	1.3524
Se 196.026	-2.3182u	-2.0841u	4.0666
Sn 189.925	-2.5946u	-1.1614u	-4.6432u
Sr 216.596	201.523	200.808	201.497
Ti 334.941	0.0252	0.0170	-0.0450u

Label	Replicates Concentration		
Tl 190.794	1.0928	-1.6638u	-2.2569u
V 292.401	-0.1129u	-0.1943u	0.0219
Zn 206.200	4.9603	5.7128	8.3025

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1350	ppb	0.0607	45.0	-20.6837
Al 308.215	5.2269	ppb	1.3431	25.7	538.294
As 188.980	0.0411	ppb	0.9602	2339.0	-4.3947
B 249.678	6.6758	ppb	0.1164	1.7	239.101
Ba 389.178	11.5172	ppb	1.0133	8.8	218.241
Be 313.042	-0.0647	ppb	0.0045	6.9	-327.984
Ca 370.602	74235	ppb	68.54	0.1	223085
Cd 226.502	-0.1442	ppb	0.0585	40.6	21.4126
Co 228.615	-0.2514	ppb	0.1715	68.2	-2.2465
Cr 267.716	0.0271	ppb	0.0990	364.9	47.3090
Cu 324.754	0.2789	ppb	0.2112	75.7	266.092
Fe 271.441	428.615	ppb	4.1689	1.0	772.501
K 766.491	754.007	ppb	1.0712	0.1	33934.3
Mg 279.078	1699.23	ppb	2.9758	0.2	4913.42
Mn 257.610	15.6888	ppb	0.0607	0.4	4121.58
Mo 202.032	-0.4165	ppb	0.0866	20.8	5.7531
Na 330.237	6996.76	ppb	43.2734	0.6	376.470
Ni 231.604	0.3724	ppb	0.8945	240.2	-3.6888
Pb 220.353	-0.3208	ppb	1.4820	462.0	6.8068
Sb 206.834	-1.9195	ppb	2.8349	147.7	-7.1876
Se 196.026	-0.1119	ppb	3.6206	3235.9	2.2441
Sn 189.925	-2.7997	ppb	1.7500	62.5	-6.8964
Sr 216.596	201.276	ppb	0.4053	0.2	2876.90
Ti 334.941	-0.0010	ppb	0.0384	3992.9	27.4866
Tl 190.794	-0.9427	ppb	1.7875	189.6	-8.3789
V 292.401	-0.0951	ppb	0.1092	114.8	-15.4111
Zn 206.200	6.3252	ppb	1.7532	27.7	8.9984

680-106722-n-18-a (Samp) **11/4/2014, 9:48:15 PM** **Rack 1, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0122u	-0.0818u	-0.0944u
Al 308.215	5.2898	8.1630	7.7915
As 188.980	0.4293	-1.0712u	-0.1527u
B 249.678	4.7119	4.5635	4.8854
Ba 389.178	9.3665	9.8634	8.9863
Be 313.042	-0.0582u	-0.0618u	-0.0632u
Ca 370.602	58154	58081	58420
Cd 226.502	-0.1296u	-0.0368	-0.2096u
Co 228.615	-1.0109u	-0.3231u	-0.4575u
Cr 267.716	0.0173	0.0029	0.0452
Cu 324.754	1.0093	1.4475	1.2599
Fe 271.441	823.203	825.220	832.483
K 766.491	616.399	616.201	617.126
Mg 279.078	1401.53	1403.82	1403.77
Mn 257.610	13.6879	13.6727	13.6934
Mo 202.032	-0.3942u	-0.3440u	-0.7254u
Na 330.237	5910.09	5861.08	5881.30

Label	Replicates Concentration		
Ni 231.604	1.0932	0.2112	0.0662
Pb 220.353	0.6543	1.0105	-0.0131
Sb 206.834	-1.6960u	1.5865	-0.9388u
Se 196.026	-0.2983u	2.7113	3.1256
Sn 189.925	-0.4510u	1.9868	-2.6746u
Sr 216.596	139.322	139.521	139.405
Ti 334.941	-0.0360u	-0.0606u	-0.0573u
Tl 190.794	-0.7279u	0.1437	-0.5239u
V 292.401	-0.0527u	-0.1583u	-0.2750u
Zn 206.200	40.0131	41.6184	41.6795

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0628	ppb	0.0443	70.6	-12.1594
Al 308.215	7.0814	ppb	1.5627	22.1	552.753
As 188.980	-0.2649	ppb	0.7565	285.6	-4.5965
B 249.678	4.7203	ppb	0.1611	3.4	204.388
Ba 389.178	9.4054	ppb	0.4398	4.7	165.473
Be 313.042	-0.0611	ppb	0.0026	4.2	-326.412
Ca 370.602	58219	ppb	178.4	0.3	174955
Cd 226.502	-0.1253	ppb	0.0865	69.0	24.1568
Co 228.615	-0.5972	ppb	0.3646	61.0	-6.7347
Cr 267.716	0.0218	ppb	0.0215	98.8	47.1609
Cu 324.754	1.2389	ppb	0.2199	17.7	341.703
Fe 271.441	826.969	ppb	4.8812	0.6	1475.29
K 766.491	616.575	ppb	0.4869	0.1	27797.6
Mg 279.078	1403.04	ppb	1.3066	0.1	4060.39
Mn 257.610	13.6847	ppb	0.0108	0.1	3608.16
Mo 202.032	-0.4878	ppb	0.2072	42.5	5.1819
Na 330.237	5884.16	ppb	24.6264	0.4	320.882
Ni 231.604	0.4569	ppb	0.5558	121.7	-3.3637
Pb 220.353	0.5506	ppb	0.5196	94.4	8.3347
Sb 206.834	-0.3495	ppb	1.7188	491.8	-4.7475
Se 196.026	1.8462	ppb	1.8687	101.2	3.1836
Sn 189.925	-0.3796	ppb	2.3315	614.2	-4.9233
Sr 216.596	139.416	ppb	0.1002	0.1	1999.08
Ti 334.941	-0.0513	ppb	0.0133	26.0	9.9842
Tl 190.794	-0.3694	ppb	0.4559	123.4	-7.7626
V 292.401	-0.1620	ppb	0.1112	68.6	-17.1580
Zn 206.200	41.1037	ppb	0.9449	2.3	51.3163

680-106722-ad-21-a (Samp) **11/4/2014, 9:52:32 PM** **Rack 1, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3419u	-0.0480u	-0.0982u
Al 308.215	2.7183	3.4822	2.1142
As 188.980	-1.2581u	-1.5252u	-3.1410u
B 249.678	4.6822	4.7312	4.5724
Ba 389.178	7.4015	6.9537	7.5851
Be 313.042	-0.0654u	-0.0511u	-0.0630u
Ca 370.602	59021	58894	58784
Cd 226.502	-0.0966u	-0.1012u	-0.1918u
Co 228.615	-0.2951u	-0.6189u	-0.5300u
Cr 267.716	-0.1850u	-0.0086u	0.0547

Label	Replicates Concentration		
Cu 324.754	-0.2335u	0.1184	0.0476
Fe 271.441	166.276	160.883	172.302
K 766.491	596.590	595.775	594.417
Mg 279.078	962.882	963.360	955.267
Mn 257.610	14.5385	14.4510	14.5265
Mo 202.032	-0.6169u	-0.5864u	-0.7806u
Na 330.237	5363.70	5314.45	5431.26
Ni 231.604	0.8763	-0.7267u	-0.1894u
Pb 220.353	-0.7504u	0.6336	-0.1787u
Sb 206.834	3.3242	-2.1735u	-2.0261u
Se 196.026	0.4497	4.9366	-1.5903u
Sn 189.925	-3.6997u	-1.8192u	-1.5748u
Sr 216.596	209.890	209.967	209.553
Ti 334.941	-0.0534u	-0.1238u	-0.0778u
Tl 190.794	-1.1620u	-0.3646u	-2.5426u
V 292.401	-0.4751u	-0.3456u	-0.5826u
Zn 206.200	2.9402	2.3982	2.6123

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1627	ppb	0.1572	96.6	-23.3138
Al 308.215	2.7716	ppb	0.6856	24.7	519.628
As 188.980	-1.9748	ppb	1.0188	51.6	-5.7056
B 249.678	4.6619	ppb	0.0813	1.7	204.963
Ba 389.178	7.3135	ppb	0.3248	4.4	112.319
Be 313.042	-0.0598	ppb	0.0076	12.8	-323.576
Ca 370.602	58900	ppb	118.9	0.2	177010
Cd 226.502	-0.1299	ppb	0.0537	41.3	20.9130
Co 228.615	-0.4813	ppb	0.1673	34.8	-5.2661
Cr 267.716	-0.0463	ppb	0.1242	268.1	42.6980
Cu 324.754	-0.0225	ppb	0.1861	827.6	242.278
Fe 271.441	166.487	ppb	5.7128	3.4	309.967
K 766.491	595.594	ppb	1.0982	0.2	26860.7
Mg 279.078	960.503	ppb	4.5408	0.5	2785.77
Mn 257.610	14.5054	ppb	0.0474	0.3	3811.47
Mo 202.032	-0.6613	ppb	0.1044	15.8	3.8793
Na 330.237	5369.81	ppb	58.6441	1.1	296.785
Ni 231.604	-0.0132	ppb	0.8159	6158.1	-5.0205
Pb 220.353	-0.0985	ppb	0.6955	705.8	7.1702
Sb 206.834	-0.2918	ppb	3.1324	1073.4	-4.6796
Se 196.026	1.2654	ppb	3.3390	263.9	2.8973
Sn 189.925	-2.3646	ppb	1.1627	49.2	-6.5421
Sr 216.596	209.803	ppb	0.2200	0.1	2989.91
Ti 334.941	-0.0850	ppb	0.0358	42.1	-2.3835
Tl 190.794	-1.3564	ppb	1.1019	81.2	-8.8296
V 292.401	-0.4678	ppb	0.1187	25.4	-26.1916
Zn 206.200	2.6503	ppb	0.2730	10.3	4.5384

Cont Calib Verif (CCV) **11/4/2014, 9:56:49 PM** **Rack 1, Tube 49**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	505.828	506.264	508.919
Al 308.215	4855.78	4850.64	4854.13
As 188.980	488.964	495.222	486.836

Label	Replicates Concentration		
B 249.678	485.216	486.264	489.039
Ba 389.178	4980.25	4982.35	4977.56
Be 313.042	497.649	496.996	497.376
Ca 370.602	4965	4958	4946
Cd 226.502	497.995	497.609	498.436
Co 228.615	502.760	501.592	502.218
Cr 267.716	5091.74	5096.75	5097.58
Cu 324.754	5083.18	5064.51	5086.84
Fe 271.441	4942.20	4931.86	4940.52
K 766.491	10376.2	10360.1	10336.7
Mg 279.078	4903.88	4895.71	4897.77
Mn 257.610	5045.37	5051.26	5053.22
Mo 202.032	490.387	491.822	494.209
Na 330.237	7209.90	7342.90	7288.45
Ni 231.604	2472.16	2481.15	2480.58
Pb 220.353	503.726	500.421	504.334
Sb 206.834	955.859	959.292	957.598
Se 196.026	4984.20	4992.30	4976.11
Sn 189.925	4958.48	4983.36	4961.19
Sr 216.596	2464.31	2467.05	2473.65
Ti 334.941	494.310	494.857	494.817
Tl 190.794	5038.20	5049.10	5054.12
V 292.401	4940.50	4937.49	4918.88
Zn 206.200	2485.48	2490.92	2502.52

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	507.004	ppb	1.6730	0.3	44649.0	101.40074
Al 308.215	4853.52	ppb	2.6283	0.1	36973.0	97.07035
As 188.980	490.340	ppb	4.3590	0.9	314.746	98.06809
B 249.678	486.840	ppb	1.9757	0.4	8528.92	97.36791
Ba 389.178	4980.05	ppb	2.4027	0.0	123882	99.60103
Be 313.042	497.340	ppb	0.3277	0.1	1028474	99.46807
Ca 370.602	4957	ppb	9.848	0.2	15278	99.13195
Cd 226.502	498.013	ppb	0.4137	0.1	24327.9	99.60265
Co 228.615	502.190	ppb	0.5846	0.1	6568.93	100.43794
Cr 267.716	5095.35	ppb	3.1611	0.1	307200	101.90709
Cu 324.754	5078.18	ppb	11.9769	0.2	399191	101.56355
Fe 271.441	4938.19	ppb	5.5472	0.1	8854.02	98.76382
K 766.491	10357.6	ppb	19.8554	0.2	462764	103.57630
Mg 279.078	4899.12	ppb	4.2502	0.1	14017.6	97.98241
Mn 257.610	5049.95	ppb	4.0898	0.1	1290108	100.99903
Mo 202.032	492.139	ppb	1.9305	0.4	3798.18	98.42785
Na 330.237	7280.42	ppb	66.8645	0.9	325.312	97.07227
Ni 231.604	2477.96	ppb	5.0318	0.2	8399.21	99.11851
Pb 220.353	502.827	ppb	2.1057	0.4	877.215	100.56545
Sb 206.834	957.583	ppb	1.7163	0.2	1529.80	95.75831
Se 196.026	4984.20	ppb	8.0930	0.2	2381.92	99.68404
Sn 189.925	4967.68	ppb	13.6510	0.3	4046.46	99.35354
Sr 216.596	2468.34	ppb	4.8003	0.2	34705.2	98.73354
Ti 334.941	494.661	ppb	0.3052	0.1	167655	98.93230
Tl 190.794	5047.14	ppb	8.1420	0.2	5957.48	100.94281
V 292.401	4932.29	ppb	11.7124	0.2	141658	98.64585
Zn 206.200	2492.97	ppb	8.7036	0.3	3018.23	99.71883

Cont Calib Blank (CCB) **11/4/2014, 10:01:03 PM** **Rack 1, Tube 50**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2240u	-0.0811u	0.0481
Al 308.215	-1.6629u	0.1019	1.4157
As 188.980	0.8909	3.5151	0.9793
B 249.678	1.5328	1.1217	0.7104
Ba 389.178	0.2374	-0.3815u	0.4901
Be 313.042	-0.0275u	-0.0224u	-0.0218u
Ca 370.602	19.63	18.36	18.54
Cd 226.502	-0.0961u	-0.0542u	-0.1320u
Co 228.615	-0.0469u	-0.0748u	-0.1333u
Cr 267.716	-0.0942u	0.2660	0.1028
Cu 324.754	-0.0464u	0.1291	-0.0087u
Fe 271.441	-0.4355u	-3.0575u	0.9279
K 766.491	0.4046	0.5506	-0.0867u
Mg 279.078	3.2782	3.1134	1.6864
Mn 257.610	0.0959	0.1103	0.1490
Mo 202.032	0.0979	0.2276	-0.1470u
Na 330.237	27.4989	0.9577	43.2863
Ni 231.604	1.0925	0.8705	1.0822
Pb 220.353	-1.7125u	-0.5912u	0.6011
Sb 206.834	2.7897	2.3363	1.1743
Se 196.026	-4.4419u	2.3551	-1.3941u
Sn 189.925	1.0127	-0.8825u	-1.6409u
Sr 216.596	-0.3761u	-0.3084u	-0.3402u
Ti 334.941	0.0168	-0.0052u	-0.0226u
Tl 190.794	-0.1044u	3.1148	3.5383
V 292.401	0.1877	0.1989	0.0640
Zn 206.200	0.1193	-0.1835u	0.3960

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0857	ppb	0.1361	158.9	-8.9504	-0.08566
Al 308.215	-0.0484	ppb	1.5448	3190.9	498.544	-0.04841
As 188.980	1.7951	ppb	1.4902	83.0	-3.2501	1.79510
B 249.678	1.1216	ppb	0.4112	36.7	144.300	1.12162
Ba 389.178	0.1153	ppb	0.4484	388.8	-68.3934	0.11534
Be 313.042	-0.0239	ppb	0.0031	13.1	-271.330	-0.02391
Ca 370.602	18.84	ppb	0.6862	3.6	94.16	18.84103
Cd 226.502	-0.0941	ppb	0.0389	41.4	21.9458	-0.09415
Co 228.615	-0.0850	ppb	0.0441	51.8	-0.1224	-0.08503
Cr 267.716	0.0915	ppb	0.1804	197.1	50.7187	0.09152
Cu 324.754	0.0247	ppb	0.0924	374.6	245.936	0.02467
Fe 271.441	-0.8550	ppb	2.0255	236.9	14.7704	-0.85503
K 766.491	0.2895	ppb	0.3339	115.3	278.612	0.28950
Mg 279.078	2.6927	ppb	0.8754	32.5	27.4026	2.69266
Mn 257.610	0.1184	ppb	0.0275	23.2	126.442	0.11840
Mo 202.032	0.0595	ppb	0.1903	319.8	9.4466	0.05949
Na 330.237	23.9143	ppb	21.3907	89.4	34.6157	23.91433
Ni 231.604	1.0151	ppb	0.1253	12.3	-1.5486	1.01507
Pb 220.353	-0.5676	ppb	1.1570	203.8	6.3472	-0.56756
Sb 206.834	2.1001	ppb	0.8332	39.7	-1.0044	2.10008
Se 196.026	-1.1603	ppb	3.4045	293.4	1.7341	-1.16029
Sn 189.925	-0.5035	ppb	1.3668	271.4	-5.0264	-0.50354
Sr 216.596	-0.3416	ppb	0.0339	9.9	3.5058	-0.34159

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	-0.0037	ppb	0.0198	536.7	23.6929	-0.00368
Tl 190.794	2.1829	ppb	1.9921	91.3	-4.6398	2.18288
V 292.401	0.1502	ppb	0.0749	49.9	-8.5634	0.15022
Zn 206.200	0.1106	ppb	0.2899	262.1	1.4545	0.11060

680-106772-j-1-a (Samp) **11/4/2014, 10:05:18 PM** **Rack 1, Tube 51**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3054u	-0.2702u	0.0787
Al 308.215	3.5701	2.8756	3.4210
As 188.980	-3.4613u	-0.2350u	-4.3756u
B 249.678	11.7949	11.8012	12.3266
Ba 389.178	5.5181	5.7643	5.7243
Be 313.042	-0.0532u	-0.0570u	-0.0585u
Ca 370.602	59592	59643	59548
Cd 226.502	0.0504	-0.0431	-0.0358
Co 228.615	-0.1620u	-0.6087u	-0.2134u
Cr 267.716	0.0286	-0.0403u	-0.0552u
Cu 324.754	0.0984	0.5406	0.3581
Fe 271.441	655.808	654.603	652.005
K 766.491	1228.05	1227.48	1231.62
Mg 279.078	1435.29	1446.73	1433.60
Mn 257.610	18.4716	18.5723	18.4542
Mo 202.032	-0.6114u	-0.0858u	-0.4209u
Na 330.237	6311.46	6340.28	6490.58
Ni 231.604	-0.1389u	0.2333	0.0904
Pb 220.353	2.8031	1.5788	0.2785
Sb 206.834	1.3890	-1.3701u	0.4640
Se 196.026	-0.6496u	3.4191	0.7909
Sn 189.925	0.9361	-0.6763u	-0.7340u
Sr 216.596	146.473	147.160	145.562
Ti 334.941	-0.0867u	-0.1093u	-0.0666u
Tl 190.794	-2.7022u	-1.0529u	-0.5239u
V 292.401	-0.3697u	-0.5520u	-0.3910u
Zn 206.200	15.3443	13.6616	15.7593

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1656	ppb	0.2123	128.2	-21.4139
Al 308.215	3.2889	ppb	0.3656	11.1	524.380
As 188.980	-2.6907	ppb	2.1752	80.8	-6.1750
B 249.678	11.9742	ppb	0.3052	2.5	330.001
Ba 389.178	5.6689	ppb	0.1321	2.3	72.4411
Be 313.042	-0.0562	ppb	0.0027	4.8	-316.041
Ca 370.602	59594	ppb	47.54	0.1	179092
Cd 226.502	-0.0095	ppb	0.0520	547.5	29.0134
Co 228.615	-0.3280	ppb	0.2444	74.5	-3.2397
Cr 267.716	-0.0223	ppb	0.0447	200.6	44.4534
Cu 324.754	0.3323	ppb	0.2222	66.9	270.404
Fe 271.441	654.138	ppb	1.9434	0.3	1170.39
K 766.491	1229.05	ppb	2.2451	0.2	55146.2
Mg 279.078	1438.54	ppb	7.1437	0.5	4162.52
Mn 257.610	18.4994	ppb	0.0638	0.3	4837.74
Mo 202.032	-0.3727	ppb	0.2661	71.4	6.0793

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	6380.77	ppb	96.1832	1.5	345.956
Ni 231.604	0.0616	ppb	0.1877	304.8	-4.7214
Pb 220.353	1.5534	ppb	1.2625	81.3	10.0483
Sb 206.834	0.1610	ppb	1.4043	872.3	-3.9701
Se 196.026	1.1868	ppb	2.0630	173.8	2.8677
Sn 189.925	-0.1581	ppb	0.9480	599.7	-4.7424
Sr 216.596	146.398	ppb	0.8013	0.5	2097.77
Ti 334.941	-0.0875	ppb	0.0213	24.4	-2.2924
Tl 190.794	-1.4263	ppb	1.1362	79.7	-8.9819
V 292.401	-0.4375	ppb	0.0997	22.8	-25.2034
Zn 206.200	14.9217	ppb	1.1108	7.4	19.4520

680-106677-a-1-a (Samp) **11/4/2014, 10:09:33 PM** **Rack 1, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1207u	-0.2182u	-0.1619u
Al 308.215	48.9969	49.4753	49.5084
As 188.980	-0.1470u	-4.5185u	-3.1690u
B 249.678	10.7955	11.0551	11.3020
Ba 389.178	15.7217	16.0908	14.8398
Be 313.042	-0.0550u	-0.0534u	-0.0515u
Ca 370.602	25772	25763	25787
Cd 226.502	-0.0949u	-0.0751u	-0.0366u
Co 228.615	-0.6403u	0.0048	-0.1239u
Cr 267.716	-0.1040u	-0.0051u	-0.0175u
Cu 324.754	54.4177	53.6809	54.2408
Fe 271.441	8.9996	12.7886	12.8002
K 766.491	1038.60	1035.39	1036.58
Mg 279.078	7195.92	7201.96	7199.98
Mn 257.610	0.6910	0.7452	0.8013
Mo 202.032	-0.0876u	0.3449	0.2581
Na 330.237	4186.45	4062.43	4118.61
Ni 231.604	0.9646	0.4837	1.5285
Pb 220.353	-0.0378u	1.6788	1.4739
Sb 206.834	0.6231	-1.4022u	0.8368
Se 196.026	1.0450	-4.2196u	4.8730
Sn 189.925	-1.2245u	-0.0236u	0.9052
Sr 216.596	92.4363	91.8983	92.2335
Ti 334.941	-0.1848u	-0.1423u	-0.1380u
Tl 190.794	-2.6794u	1.9305	0.9105
V 292.401	-0.0979u	0.1680	0.1355
Zn 206.200	11.7705	11.7702	10.2541

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1669	ppb	0.0489	29.3	-19.6017
Al 308.215	49.3269	ppb	0.2862	0.6	863.730
As 188.980	-2.6115	ppb	2.2384	85.7	-6.1190
B 249.678	11.0509	ppb	0.2533	2.3	315.585
Ba 389.178	15.5508	ppb	0.6428	4.1	326.943
Be 313.042	-0.0533	ppb	0.0017	3.2	-323.036
Ca 370.602	25774	ppb	11.96	0.0	77481
Cd 226.502	-0.0689	ppb	0.0297	43.1	23.3112
Co 228.615	-0.2531	ppb	0.3414	134.9	-2.3221

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-0.0422	ppb	0.0539	127.7	42.7648
Cu 324.754	54.1131	ppb	0.3846	0.7	4495.77
Fe 271.441	11.5295	ppb	2.1909	19.0	36.5978
K 766.491	1036.85	ppb	1.6249	0.2	46564.2
Mg 279.078	7199.28	ppb	3.0797	0.0	20755.0
Mn 257.610	0.7458	ppb	0.0551	7.4	352.118
Mo 202.032	0.1718	ppb	0.2288	133.2	10.3123
Na 330.237	4122.50	ppb	62.0992	1.5	235.411
Ni 231.604	0.9923	ppb	0.5230	52.7	-1.6245
Pb 220.353	1.0383	ppb	0.9375	90.3	9.1102
Sb 206.834	0.0192	ppb	1.2357	6427.0	-4.2187
Se 196.026	0.5661	ppb	4.5651	806.4	2.5583
Sn 189.925	-0.1143	ppb	1.0677	934.0	-4.7075
Sr 216.596	92.1894	ppb	0.2717	0.3	1318.40
Ti 334.941	-0.1551	ppb	0.0259	16.7	-13.2149
Tl 190.794	0.0539	ppb	2.4214	4492.7	-7.1532
V 292.401	0.0685	ppb	0.1450	211.6	-10.8571
Zn 206.200	11.2649	ppb	0.8754	7.8	15.0335

680-106677-a-1-b ms (Samp) **11/4/2014, 10:13:49 PM** **Rack 1, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.4464	21.3905	20.9846
Al 308.215	2021.69	2011.15	2020.71
As 188.980	38.9113	41.4712	41.4371
B 249.678	89.3437	89.8063	90.0129
Ba 389.178	55.0199	54.4306	55.6070
Be 313.042	20.1975	20.1442	20.2218
Ca 370.602	27333	27250	27322
Cd 226.502	20.3173	20.0915	20.2451
Co 228.615	19.8823	20.2276	20.1127
Cr 267.716	41.3213	41.2091	41.5342
Cu 324.754	92.4395	92.3584	92.8430
Fe 271.441	2023.70	2013.00	2026.15
K 766.491	3185.18	3170.94	3192.07
Mg 279.078	9065.05	9009.96	9071.41
Mn 257.610	210.768	209.915	211.174
Mo 202.032	39.5047	39.3592	39.7447
Na 330.237	5880.67	5984.40	6073.93
Ni 231.604	40.4794	40.5901	42.4870
Pb 220.353	201.948	203.249	203.129
Sb 206.834	19.1296	18.1750	18.8062
Se 196.026	46.5414	35.3181	38.8788
Sn 189.925	79.6139	78.2575	78.1460
Sr 216.596	129.509	129.548	129.959
Ti 334.941	40.0728	40.0413	40.2543
Tl 190.794	14.6521	14.8652	11.3712
V 292.401	40.2938	39.9447	40.5578
Zn 206.200	51.3258	51.5646	51.1502

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.2738	ppb	0.2521	1.2	1870.21
Al 308.215	2017.85	ppb	5.8232	0.3	15433.4

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	40.6065	ppb	1.4682	3.6	22.0185
B 249.678	89.7210	ppb	0.3427	0.4	1668.62
Ba 389.178	55.0191	ppb	0.5882	1.1	1313.53
Be 313.042	20.1878	ppb	0.0397	0.2	41530.6
Ca 370.602	27301	ppb	44.96	0.2	82069
Cd 226.502	20.2180	ppb	0.1153	0.6	1021.50
Co 228.615	20.0742	ppb	0.1758	0.9	263.210
Cr 267.716	41.3549	ppb	0.1651	0.4	2540.16
Cu 324.754	92.5470	ppb	0.2596	0.3	7517.59
Fe 271.441	2020.95	ppb	6.9912	0.3	3585.23
K 766.491	3182.73	ppb	10.7758	0.3	142384
Mg 279.078	9048.81	ppb	33.7908	0.4	26076.6
Mn 257.610	210.619	ppb	0.6424	0.3	53985.5
Mo 202.032	39.5362	ppb	0.1947	0.5	313.749
Na 330.237	5979.67	ppb	96.7157	1.6	324.938
Ni 231.604	41.1855	ppb	1.1285	2.7	134.842
Pb 220.353	202.775	ppb	0.7188	0.4	356.306
Sb 206.834	18.7036	ppb	0.4855	2.6	24.5014
Se 196.026	40.2461	ppb	5.7352	14.3	21.5711
Sn 189.925	78.6725	ppb	0.8172	1.0	59.5427
Sr 216.596	129.672	ppb	0.2496	0.2	1848.00
Ti 334.941	40.1228	ppb	0.1149	0.3	13639.3
Tl 190.794	13.6295	ppb	1.9586	14.4	8.6783
V 292.401	40.2654	ppb	0.3075	0.8	1138.83
Zn 206.200	51.3469	ppb	0.2080	0.4	63.5806

680-106677-a-1-c msd (Samp) **11/4/2014, 10:18:04 PM** **Rack 1, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.2127	21.1457	21.0624
Al 308.215	2029.31	2022.16	2024.42
As 188.980	41.5863	44.1531	39.0619
B 249.678	90.4288	90.4836	91.5931
Ba 389.178	55.1384	56.0894	55.5766
Be 313.042	20.3042	20.3219	20.2989
Ca 370.602	26875	26956	26807
Cd 226.502	20.4597	20.3761	20.3930
Co 228.615	20.1814	20.1446	20.3815
Cr 267.716	41.3914	41.4523	41.4100
Cu 324.754	92.7200	92.3426	93.0811
Fe 271.441	2034.12	2030.21	2035.57
K 766.491	3185.05	3189.98	3187.08
Mg 279.078	8942.74	8931.96	8935.87
Mn 257.610	211.525	211.526	211.520
Mo 202.032	40.2277	39.5594	40.3079
Na 330.237	6090.79	5866.69	6113.80
Ni 231.604	39.3687	42.6589	41.8547
Pb 220.353	205.399	203.614	203.528
Sb 206.834	22.5425	18.2505	18.1165
Se 196.026	34.8333	37.4189	37.2117
Sn 189.925	78.3877	78.7991	79.9783
Sr 216.596	128.372	128.814	128.135
Ti 334.941	40.4428	40.4532	40.4398

Label	Replicates Concentration		
Tl 190.794	15.4696	19.0885	16.1941
V 292.401	40.5892	40.6037	40.7317
Zn 206.200	51.9048	50.7383	51.5766

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.1403	ppb	0.0753	0.4	1858.48
Al 308.215	2025.30	ppb	3.6553	0.2	15488.6
As 188.980	41.6004	ppb	2.5456	6.1	22.6656
B 249.678	90.8351	ppb	0.6570	0.7	1687.83
Ba 389.178	55.6015	ppb	0.4760	0.9	1327.86
Be 313.042	20.3084	ppb	0.0121	0.1	41779.7
Ca 370.602	26879	ppb	74.44	0.3	80800
Cd 226.502	20.4096	ppb	0.0442	0.2	1030.90
Co 228.615	20.2358	ppb	0.1275	0.6	265.317
Cr 267.716	41.4179	ppb	0.0312	0.1	2543.96
Cu 324.754	92.7145	ppb	0.3693	0.4	7530.77
Fe 271.441	2033.30	ppb	2.7729	0.1	3607.06
K 766.491	3187.37	ppb	2.4783	0.1	142591
Mg 279.078	8936.86	ppb	5.4596	0.1	25754.1
Mn 257.610	211.524	ppb	0.0030	0.0	54215.6
Mo 202.032	40.0317	ppb	0.4109	1.0	317.569
Na 330.237	6023.76	ppb	136.514	2.3	327.090
Ni 231.604	41.2941	ppb	1.7153	4.2	135.211
Pb 220.353	204.180	ppb	1.0563	0.5	358.724
Sb 206.834	19.6365	ppb	2.5176	12.8	25.9340
Se 196.026	36.4880	ppb	1.4367	3.9	19.7782
Sn 189.925	79.0550	ppb	0.8256	1.0	59.8546
Sr 216.596	128.440	ppb	0.3444	0.3	1830.50
Ti 334.941	40.4453	ppb	0.0070	0.0	13748.3
Tl 190.794	16.9174	ppb	1.9148	11.3	12.5554
V 292.401	40.6415	ppb	0.0784	0.2	1149.58
Zn 206.200	51.4066	ppb	0.6016	1.2	63.6524

CRI (Samp) **11/4/2014, 10:22:20 PM** **Rack 1, Tube 55**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.6586	10.4394	10.5461
Al 308.215	201.244	198.103	199.467
As 188.980	20.4264	21.3935	19.0502
B 249.678	95.6872	95.8411	96.4055
Ba 389.178	10.7246	10.6722	10.2157
Be 313.042	4.0695	4.0726	4.0808
Ca 370.602	516.7	510.5	507.6
Cd 226.502	4.9791	4.8619	4.8852
Co 228.615	9.9325	10.0077	9.9197
Cr 267.716	10.4043	10.1860	10.1498
Cu 324.754	21.0689	21.4457	21.1855
Fe 271.441	44.0425	52.2007	56.2985
K 766.491	1079.39	1073.68	1075.90
Mg 279.078	501.580	505.594	505.838
Mn 257.610	11.0046	11.0300	11.0833
Mo 202.032	9.6183	9.9716	10.0516
Na 330.237	827.758	894.837	835.772

Label	Replicates Concentration		
Ni 231.604	42.1410	41.4797	41.2334
Pb 220.353	11.4525	9.3494	11.0259
Sb 206.834	19.3508	18.5420	15.3432
Se 196.026	23.7549	27.0976	18.9881
Sn 189.925	50.0311	53.0410	48.2916
Sr 216.596	9.3745	9.9857	9.2221
Ti 334.941	9.8882	9.8719	9.9324
Tl 190.794	25.1113	29.0733	26.5095
V 292.401	10.4855	10.3324	10.4061
Zn 206.200	20.4834	21.8682	20.9644

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.5480	ppb	0.1096	1.0	928.271
Al 308.215	199.604	ppb	1.5752	0.8	1976.94
As 188.980	20.2900	ppb	1.1776	5.8	8.7918
B 249.678	95.9779	ppb	0.3782	0.4	1781.31
Ba 389.178	10.5375	ppb	0.2799	2.7	191.853
Be 313.042	4.0743	ppb	0.0058	0.1	8202.54
Ca 370.602	511.6	ppb	4.624	0.9	1579
Cd 226.502	4.9087	ppb	0.0620	1.3	266.075
Co 228.615	9.9533	ppb	0.0476	0.5	130.960
Cr 267.716	10.2467	ppb	0.1377	1.3	662.906
Cu 324.754	21.2334	ppb	0.1929	0.9	1912.63
Fe 271.441	50.8472	ppb	6.2391	12.3	107.483
K 766.491	1076.33	ppb	2.8781	0.3	48326.8
Mg 279.078	504.337	ppb	2.3908	0.5	1471.92
Mn 257.610	11.0393	ppb	0.0402	0.4	2920.79
Mo 202.032	9.8805	ppb	0.2305	2.3	85.1747
Na 330.237	852.789	ppb	36.6347	4.3	74.7050
Ni 231.604	41.6180	ppb	0.4693	1.1	136.152
Pb 220.353	10.6093	ppb	1.1117	10.5	25.5653
Sb 206.834	17.7453	ppb	2.1192	11.9	23.1072
Se 196.026	23.2802	ppb	4.0755	17.5	13.3999
Sn 189.925	50.4546	ppb	2.4028	4.8	36.5296
Sr 216.596	9.5274	ppb	0.4041	4.2	141.395
Ti 334.941	9.8975	ppb	0.0313	0.3	3379.75
Tl 190.794	26.8980	ppb	2.0094	7.5	24.5299
V 292.401	10.4080	ppb	0.0766	0.7	284.691
Zn 206.200	21.1053	ppb	0.7030	3.3	26.9749

mb 680-356605/1-a (Samp) **11/4/2014, 10:26:36 PM** **Rack 1, Tube 56**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0233	-0.1475u	0.0784
Al 308.215	2.0412	0.1350	2.3706
As 188.980	-3.2693u	0.8870	-1.7725u
B 249.678	-2.6224u	-2.9948u	-2.9683u
Ba 389.178	0.5991	0.8559	0.0944
Be 313.042	-0.0455u	-0.0452u	-0.0405u
Ca 370.602	3.518	0.8588	5.605
Cd 226.502	-0.1786u	-0.0460u	-0.0843u
Co 228.615	-0.2538u	-0.1181u	0.2356
Cr 267.716	-0.2258u	-0.2645u	-0.1822u

Label	Replicates Concentration		
Cu 324.754	0.0696	0.2591	-0.1717u
Fe 271.441	0.0976	-0.1857u	-2.5884u
K 766.491	2.0378	1.4223	1.5047
Mg 279.078	1.5876	2.4517	0.8239
Mn 257.610	-0.0703u	-0.0519u	-0.0933u
Mo 202.032	-0.4372u	-0.7637u	-0.3163u
Na 330.237	24.0051	-191.106u	-21.0391u
Ni 231.604	0.1346	0.4415	-0.1207u
Pb 220.353	-2.5503u	1.3052	-0.7900u
Sb 206.834	-1.8492u	0.6747	-0.8142u
Se 196.026	0.0060	-3.2962u	-0.1261u
Sn 189.925	-1.2116u	-2.5706u	-0.2771u
Sr 216.596	0.0438	-0.2683u	-0.2138u
Ti 334.941	-0.2041u	-0.1742u	-0.2418u
Tl 190.794	-0.1867u	2.2166	-1.6921u
V 292.401	0.1081	-0.1305u	-0.4193u
Zn 206.200	3.1566	2.5442	3.2900

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0153	ppb	0.1178	771.6	-2.7488
Al 308.215	1.5156	ppb	1.2070	79.6	510.047
As 188.980	-1.3849	ppb	2.1051	152.0	-5.3206
B 249.678	-2.8618	ppb	0.2078	7.3	75.5069
Ba 389.178	0.5164	ppb	0.3874	75.0	-58.4165
Be 313.042	-0.0437	ppb	0.0028	6.4	-312.235
Ca 370.602	3.327	ppb	2.379	71.5	47.45
Cd 226.502	-0.1030	ppb	0.0683	66.3	21.5119
Co 228.615	-0.0454	ppb	0.2527	556.2	0.4039
Cr 267.716	-0.2242	ppb	0.0412	18.4	31.6870
Cu 324.754	0.0523	ppb	0.2159	412.7	248.093
Fe 271.441	-0.8921	ppb	1.4758	165.4	14.7071
K 766.491	1.6549	ppb	0.3342	20.2	339.582
Mg 279.078	1.6210	ppb	0.8144	50.2	24.3197
Mn 257.610	-0.0718	ppb	0.0207	28.8	77.8458
Mo 202.032	-0.5057	ppb	0.2315	45.8	5.0877
Na 330.237	-62.7132	ppb	113.449	180.9	30.2771
Ni 231.604	0.1518	ppb	0.2815	185.5	-4.4770
Pb 220.353	-0.6784	ppb	1.9302	284.5	6.1570
Sb 206.834	-0.6629	ppb	1.2687	191.4	-5.2652
Se 196.026	-1.1388	ppb	1.8696	164.2	1.7443
Sn 189.925	-1.3531	ppb	1.1533	85.2	-5.7192
Sr 216.596	-0.1461	ppb	0.1667	114.1	6.2882
Ti 334.941	-0.2067	ppb	0.0339	16.4	-45.1135
Tl 190.794	0.1126	ppb	1.9715	1750.5	-7.0808
V 292.401	-0.1472	ppb	0.2641	179.3	-17.0356
Zn 206.200	2.9969	ppb	0.3977	13.3	4.9694

llcs 680-356605/3-a (Samp) **11/4/2014, 10:30:53 PM** **Rack 1, Tube 57**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	11.7799	11.4836	11.6450
Al 308.215	223.066	222.025	221.694
As 188.980	20.1104	20.3499	25.3932

Label	Replicates Concentration		
B 249.678	105.065	104.555	106.053
Ba 389.178	12.2368	11.1998	11.5873
Be 313.042	4.3904	4.3336	4.3691
Ca 370.602	555.0	550.0	557.6
Cd 226.502	5.5711	5.4744	5.5233
Co 228.615	11.3304	11.3116	11.1488
Cr 267.716	11.4378	11.3185	11.2610
Cu 324.754	23.4587	23.2311	23.3245
Fe 271.441	53.5986	53.2062	54.0603
K 766.491	1215.82	1200.00	1209.06
Mg 279.078	553.162	545.849	551.898
Mn 257.610	11.7148	11.5961	11.6524
Mo 202.032	10.5860	10.4013	10.2727
Na 330.237	999.937	1094.06	998.536
Ni 231.604	45.9203	45.3021	44.8727
Pb 220.353	13.7503	12.0323	11.8103
Sb 206.834	22.2159	21.1484	21.9374
Se 196.026	23.0965	14.0228	26.2646
Sn 189.925	57.5610	53.3571	54.4425
Sr 216.596	10.7040	10.8815	10.5505
Ti 334.941	11.0602	10.9286	10.9597
Tl 190.794	28.0539	27.3833	29.4057
V 292.401	11.1067	10.9807	10.9412
Zn 206.200	25.1047	24.5731	26.4473

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	11.6362	ppb	0.1483	1.3	1024.16
Al 308.215	222.261	ppb	0.7158	0.3	2144.61
As 188.980	21.9512	ppb	2.9833	13.6	9.8735
B 249.678	105.224	ppb	0.7612	0.7	1940.90
Ba 389.178	11.6746	ppb	0.5240	4.5	220.229
Be 313.042	4.3644	ppb	0.0287	0.7	8802.26
Ca 370.602	554.2	ppb	3.835	0.7	1708
Cd 226.502	5.5229	ppb	0.0483	0.9	296.040
Co 228.615	11.2636	ppb	0.0999	0.9	148.089
Cr 267.716	11.3391	ppb	0.0902	0.8	728.765
Cu 324.754	23.3381	ppb	0.1144	0.5	2078.02
Fe 271.441	53.6217	ppb	0.4275	0.8	112.557
K 766.491	1208.29	ppb	7.9372	0.7	54219.5
Mg 279.078	550.303	ppb	3.9088	0.7	1604.29
Mn 257.610	11.6544	ppb	0.0593	0.5	3078.34
Mo 202.032	10.4200	ppb	0.1575	1.5	89.3343
Na 330.237	1030.84	ppb	54.7512	5.3	83.3381
Ni 231.604	45.3650	ppb	0.5266	1.2	148.858
Pb 220.353	12.5310	ppb	1.0618	8.5	28.8707
Sb 206.834	21.7672	ppb	0.5537	2.5	29.3201
Se 196.026	21.1280	ppb	6.3539	30.1	12.3732
Sn 189.925	55.1202	ppb	2.1823	4.0	40.3344
Sr 216.596	10.7120	ppb	0.1657	1.5	157.980
Ti 334.941	10.9828	ppb	0.0688	0.6	3747.59
Tl 190.794	28.2810	ppb	1.0301	3.6	26.1640
V 292.401	11.0095	ppb	0.0865	0.8	301.871
Zn 206.200	25.3750	ppb	0.9659	3.8	32.1687

lcs 680-356605/4-a (Samp) **11/4/2014, 10:35:09 PM** **Rack 1, Tube 58**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.1190	0.9693	0.9136
Al 308.215	10.8875	12.8741	10.0196
As 188.980	-1.9966u	-8.2856u	-1.0465u
B 249.678	16.7519	16.8128	16.6065
Ba 389.178	4.2380	3.7093	3.6256
Be 313.042	0.3195	0.3170	0.3206
Ca 370.602	251.6	254.7	250.0
Cd 226.502	0.0333	0.0907	0.0462
Co 228.615	-0.0345u	0.0902	0.5901
Cr 267.716	0.9050	1.0002	0.9750
Cu 324.754	0.9564	0.8772	1.1158
Fe 271.441	51.2864	52.9136	50.1583
K 766.491	54.8194	55.3618	54.4964
Mg 279.078	54.4512	51.8498	52.9592
Mn 257.610	2.0817	2.1537	2.1191
Mo 202.032	0.4549	0.4133	0.7823
Na 330.237	-43.0857u	-95.5493u	-29.3443u
Ni 231.604	-0.1513u	0.0297	-0.0689u
Pb 220.353	0.3871	-0.8278u	-0.3865u
Sb 206.834	-0.2644u	0.3336	-2.5121u
Se 196.026	0.9346	5.0035	8.4276
Sn 189.925	0.4236	-2.0321u	2.8191
Sr 216.596	0.2348	0.2683	-0.0982u
Ti 334.941	0.7804	0.7825	0.7496
Tl 190.794	0.4996	0.9286	-1.0604u
V 292.401	1.2119	0.8457	0.7217
Zn 206.200	22.0091	21.9830	20.9112

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0006	ppb	0.1062	10.6	86.8166
Al 308.215	11.2604	ppb	1.4633	13.0	582.380
As 188.980	-3.7762	ppb	3.9340	104.2	-6.8782
B 249.678	16.7237	ppb	0.1060	0.6	413.367
Ba 389.178	3.8576	ppb	0.3321	8.6	24.8464
Be 313.042	0.3190	ppb	0.0019	0.6	437.868
Ca 370.602	252.1	ppb	2.423	1.0	794.8
Cd 226.502	0.0567	ppb	0.0301	53.1	29.5292
Co 228.615	0.2152	ppb	0.3305	153.6	3.8095
Cr 267.716	0.9601	ppb	0.0493	5.1	103.110
Cu 324.754	0.9831	ppb	0.1215	12.4	321.279
Fe 271.441	51.4528	ppb	1.3852	2.7	107.104
K 766.491	54.8925	ppb	0.4373	0.8	2716.80
Mg 279.078	53.0868	ppb	1.3054	2.5	172.499
Mn 257.610	2.1182	ppb	0.0360	1.7	637.900
Mo 202.032	0.5502	ppb	0.2021	36.7	13.2275
Na 330.237	-55.9931	ppb	34.9389	62.4	30.1062
Ni 231.604	-0.0635	ppb	0.0906	142.7	-5.2030
Pb 220.353	-0.2758	ppb	0.6150	223.0	6.8527
Sb 206.834	-0.8143	ppb	1.5004	184.3	-5.5000
Se 196.026	4.7886	ppb	3.7511	78.3	4.5740
Sn 189.925	0.4035	ppb	2.4257	601.1	-4.2867
Sr 216.596	0.1350	ppb	0.2026	150.1	10.4181

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.7708	ppb	0.0185	2.4	286.256
Tl 190.794	0.1226	ppb	1.0467	853.8	-7.0763
V 292.401	0.9264	ppb	0.2549	27.5	13.6844
Zn 206.200	21.6344	ppb	0.6265	2.9	27.6515

680-106679-g-1-a (Samp) **11/4/2014, 10:39:26 PM** **Rack 1, Tube 59**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1788u	-0.0912u	0.0931
Al 308.215	4.9692	4.8042	3.6788
As 188.980	-0.5004u	0.8652	1.1466
B 249.678	6.2749	6.6748	6.4287
Ba 389.178	11.4796	11.5299	10.7582
Be 313.042	-0.0654u	-0.0624u	-0.0671u
Ca 370.602	60340	60302	60131
Cd 226.502	-0.0366	-0.1134u	-0.1055u
Co 228.615	0.0402	-0.0346u	-0.1723u
Cr 267.716	-0.1742u	-0.1207u	-0.0254u
Cu 324.754	-0.0054u	-0.3206u	-0.0022
Fe 271.441	925.054	930.830	926.807
K 766.491	1391.90	1388.23	1389.50
Mg 279.078	1420.51	1421.88	1418.86
Mn 257.610	21.0908	21.0273	21.0262
Mo 202.032	-0.9910u	-0.4871u	-0.2513u
Na 330.237	6026.67	5785.96	5979.79
Ni 231.604	0.1030	-0.0845u	0.8849
Pb 220.353	-2.1471u	0.1302	0.0165
Sb 206.834	1.1305	-0.2054u	-0.6271u
Se 196.026	-3.0807u	2.9774	-0.1988u
Sn 189.925	-1.2265u	-3.4040u	-0.4885u
Sr 216.596	145.151	144.208	144.694
Ti 334.941	-0.0800u	-0.0571u	-0.0849u
Tl 190.794	2.9896	-3.1307u	-1.4204u
V 292.401	-0.2623u	-0.2839u	-0.5829u
Zn 206.200	6.3219	7.2634	5.7622

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0590	ppb	0.1388	235.4	-11.9917
Al 308.215	4.4840	ppb	0.7022	15.7	533.705
As 188.980	0.5038	ppb	0.8810	174.9	-4.0966
B 249.678	6.4594	ppb	0.2017	3.1	234.144
Ba 389.178	11.2559	ppb	0.4318	3.8	211.611
Be 313.042	-0.0650	ppb	0.0024	3.6	-333.770
Ca 370.602	60258	ppb	111.4	0.2	181081
Cd 226.502	-0.0852	ppb	0.0423	49.6	26.5724
Co 228.615	-0.0556	ppb	0.1078	193.9	0.3506
Cr 267.716	-0.1068	ppb	0.0754	70.6	39.5103
Cu 324.754	-0.1094	ppb	0.1829	167.2	235.813
Fe 271.441	927.564	ppb	2.9616	0.3	1652.84
K 766.491	1389.88	ppb	1.8610	0.1	62327.8
Mg 279.078	1420.42	ppb	1.5119	0.1	4110.27
Mn 257.610	21.0481	ppb	0.0370	0.2	5489.60
Mo 202.032	-0.5765	ppb	0.3779	65.5	4.4932

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	5930.81	ppb	127.611	2.2	324.029
Ni 231.604	0.3011	ppb	0.5141	170.7	-3.8840
Pb 220.353	-0.6668	ppb	1.2833	192.4	6.2490
Sb 206.834	0.0993	ppb	0.9176	923.9	-4.0531
Se 196.026	-0.1007	ppb	3.0302	3009.5	2.2578
Sn 189.925	-1.7063	ppb	1.5159	88.8	-6.0051
Sr 216.596	144.685	ppb	0.4716	0.3	2074.30
Ti 334.941	-0.0740	ppb	0.0148	20.0	2.3280
Tl 190.794	-0.5205	ppb	3.1578	606.7	-7.9502
V 292.401	-0.3764	ppb	0.1792	47.6	-23.2850
Zn 206.200	6.4492	ppb	0.7587	11.8	9.1240

680-106679-g-1-b ms (Samp) **11/4/2014, 10:43:43 PM** **Rack 1, Tube 60**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.7568	22.2919	21.9533
Al 308.215	2039.03	2039.81	2036.09
As 188.980	43.3292	41.8415	43.4800
B 249.678	87.1679	87.1253	87.9593
Ba 389.178	51.6879	52.0227	52.6595
Be 313.042	20.6359	20.6402	20.6031
Ca 370.602	63330	63550	63386
Cd 226.502	20.5328	20.7679	20.6581
Co 228.615	20.4204	20.0550	20.7742
Cr 267.716	42.1520	42.1714	41.9945
Cu 324.754	43.3275	42.7704	42.6962
Fe 271.441	3001.13	3005.23	2994.15
K 766.491	3680.78	3667.80	3681.01
Mg 279.078	3446.47	3454.45	3448.28
Mn 257.610	235.640	235.601	235.086
Mo 202.032	40.3268	40.3563	40.1015
Na 330.237	7986.76	8189.49	7941.90
Ni 231.604	40.9706	41.2167	41.1893
Pb 220.353	206.161	206.759	204.097
Sb 206.834	21.2681	23.6303	16.9865
Se 196.026	35.9080	33.8295	44.9385
Sn 189.925	78.6004	75.4907	76.0886
Sr 216.596	187.965	187.103	187.601
Ti 334.941	41.1169	41.0646	41.0971
Tl 190.794	19.2024	14.0155	16.8202
V 292.401	40.9120	40.6916	40.9430
Zn 206.200	46.1998	46.7104	46.7035

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.0007	ppb	0.2707	1.2	1932.17
Al 308.215	2038.31	ppb	1.9583	0.1	15586.7
As 188.980	42.8835	ppb	0.9056	2.1	23.4949
B 249.678	87.4175	ppb	0.4697	0.5	1626.57
Ba 389.178	52.1234	ppb	0.4936	0.9	1233.34
Be 313.042	20.6264	ppb	0.0203	0.1	42451.3
Ca 370.602	63422	ppb	114.3	0.2	190588
Cd 226.502	20.6529	ppb	0.1176	0.6	1047.04
Co 228.615	20.4165	ppb	0.3596	1.8	267.764

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	42.1060	ppb	0.0970	0.2	2586.13
Cu 324.754	42.9314	ppb	0.3451	0.8	3619.67
Fe 271.441	3000.17	ppb	5.6018	0.2	5312.99
K 766.491	3676.53	ppb	7.5623	0.2	164433
Mg 279.078	3449.74	ppb	4.1821	0.1	9949.59
Mn 257.610	235.442	ppb	0.3089	0.1	60279.7
Mo 202.032	40.2615	ppb	0.1394	0.3	319.290
Na 330.237	8039.38	ppb	131.917	1.6	425.881
Ni 231.604	41.1255	ppb	0.1349	0.3	134.729
Pb 220.353	205.672	ppb	1.3969	0.7	361.366
Sb 206.834	20.6283	ppb	3.3678	16.3	27.5026
Se 196.026	38.2254	ppb	5.9059	15.5	20.6265
Sn 189.925	76.7266	ppb	1.6501	2.2	57.9565
Sr 216.596	187.557	ppb	0.4328	0.2	2680.60
Ti 334.941	41.0929	ppb	0.0264	0.1	13956.4
Tl 190.794	16.6794	ppb	2.5963	15.6	12.1479
V 292.401	40.8489	ppb	0.1371	0.3	1155.78
Zn 206.200	46.5379	ppb	0.2929	0.6	57.6733

Cont Calib Verif (CCV) **11/4/2014, 10:48:00 PM** **Rack 2, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	509.251	509.822	509.882
Al 308.215	4865.33	4849.20	4873.22
As 188.980	497.213	485.351	495.824
B 249.678	488.018	488.575	492.297
Ba 389.178	4970.43	4959.04	4986.51
Be 313.042	496.723	496.027	500.217
Ca 370.602	4967	4948	4964
Cd 226.502	499.380	497.370	499.518
Co 228.615	501.463	500.892	503.374
Cr 267.716	5093.88	5082.28	5100.83
Cu 324.754	5085.89	5108.19	5132.30
Fe 271.441	4933.89	4925.55	4951.00
K 766.491	10374.6	10318.3	10411.7
Mg 279.078	4915.91	4889.62	4916.17
Mn 257.610	5038.80	5035.31	5038.25
Mo 202.032	493.322	492.876	492.710
Na 330.237	7342.22	7457.22	7418.79
Ni 231.604	2493.54	2471.71	2502.33
Pb 220.353	503.771	502.157	503.298
Sb 206.834	954.614	952.362	962.584
Se 196.026	4995.27	4975.73	4985.16
Sn 189.925	4982.56	5018.92	4979.34
Sr 216.596	2460.26	2455.03	2465.47
Ti 334.941	493.329	492.174	494.714
Tl 190.794	5068.22	5043.09	5060.55
V 292.401	4941.44	4921.95	4940.84
Zn 206.200	2493.51	2484.31	2486.33

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	509.652	ppb	0.3481	0.1	44882.5	101.93037
Al 308.215	4862.59	ppb	12.2431	0.3	37039.1	97.25173

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	492.796	ppb	6.4850	1.3	316.345	98.55925
B 249.678	489.630	ppb	2.3264	0.5	8577.06	97.92601
Ba 389.178	4971.99	ppb	13.7986	0.3	123681	99.43987
Be 313.042	497.656	ppb	2.2454	0.5	1029126	99.53114
Ca 370.602	4960	ppb	9.827	0.2	15286	99.19329
Cd 226.502	498.756	ppb	1.2023	0.2	24364.1	99.75120
Co 228.615	501.910	ppb	1.3002	0.3	6565.20	100.38194
Cr 267.716	5092.33	ppb	9.3700	0.2	307018	101.84659
Cu 324.754	5108.79	ppb	23.2112	0.5	401597	102.17590
Fe 271.441	4936.81	ppb	12.9744	0.3	8851.39	98.73630
K 766.491	10368.2	ppb	47.0510	0.5	463236	103.68195
Mg 279.078	4907.23	ppb	15.2561	0.3	14041.2	98.14467
Mn 257.610	5037.45	ppb	1.8751	0.0	1286916	100.74908
Mo 202.032	492.969	ppb	0.3168	0.1	3804.60	98.59386
Na 330.237	7406.08	ppb	58.5474	0.8	331.590	98.74770
Ni 231.604	2489.19	ppb	15.7642	0.6	8437.31	99.56779
Pb 220.353	503.075	ppb	0.8296	0.2	877.635	100.61509
Sb 206.834	956.520	ppb	5.3710	0.6	1528.11	95.65199
Se 196.026	4985.39	ppb	9.7690	0.2	2382.48	99.70776
Sn 189.925	4993.61	ppb	21.9776	0.4	4067.60	99.87213
Sr 216.596	2460.25	ppb	5.2211	0.2	34590.9	98.41019
Ti 334.941	493.406	ppb	1.2719	0.3	167230	98.68112
Tl 190.794	5057.29	ppb	12.8778	0.3	5969.43	101.14574
V 292.401	4934.75	ppb	11.0877	0.2	141729	98.69492
Zn 206.200	2488.05	ppb	4.8343	0.2	3012.26	99.52204

Cont Calib Blank (CCB) **11/4/2014, 10:52:15 PM** **Rack 2, Tube 2**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3570	0.1079	-0.3317u
Al 308.215	-0.5107u	-1.5010u	-1.0844u
As 188.980	-5.0438u	-1.2133u	-1.3768u
B 249.678	1.9994	1.2674	0.5533
Ba 389.178	0.3077	0.8417	0.7791
Be 313.042	-0.0244u	-0.0308u	-0.0179u
Ca 370.602	-0.3720u	3.762	1.113
Cd 226.502	-0.0018u	-0.0335u	0.0792
Co 228.615	-0.2576u	-0.2820u	-0.1065u
Cr 267.716	-0.0531u	0.1095	0.0182
Cu 324.754	0.1236	0.1276	0.1146
Fe 271.441	-1.4760u	0.9457	-1.3776u
K 766.491	-0.2476u	0.0328	0.0883
Mg 279.078	0.5450	4.5258	1.7970
Mn 257.610	0.1302	0.1372	0.1375
Mo 202.032	-0.0653u	-0.0552u	-0.3370u
Na 330.237	-67.2649u	-66.2795u	-24.5305u
Ni 231.604	-0.4370u	-0.0388u	0.1443
Pb 220.353	-2.2768u	-0.4949u	2.4233
Sb 206.834	2.9230	4.6257	2.2698
Se 196.026	-1.0845u	-2.3626u	1.9898
Sn 189.925	-0.6233u	-2.5959u	-0.2836u
Sr 216.596	-0.4002u	0.0288	-0.2825u
Ti 334.941	0.0207	0.0015	-0.0211u

Label	Replicates Concentration		
Tl 190.794	-2.5331u	-0.9578u	-0.8284u
V 292.401	0.5444	0.1969	0.0827
Zn 206.200	-0.0009u	0.2290	-0.0587u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0444	ppb	0.3487	785.6	2.5163	0.04439
Al 308.215	-1.0320	ppb	0.4972	48.2	491.259	-1.03202
As 188.980	-2.5446	ppb	2.1659	85.1	-6.0758	-2.54461
B 249.678	1.2734	ppb	0.7231	56.8	146.940	1.27336
Ba 389.178	0.6428	ppb	0.2919	45.4	-55.2689	0.64283
Be 313.042	-0.0244	ppb	0.0064	26.4	-272.283	-0.02437
Ca 370.602	1.501	ppb	2.094	139.5	42.10	1.50099
Cd 226.502	0.0147	ppb	0.0581	396.1	27.2387	0.01467
Co 228.615	-0.2154	ppb	0.0951	44.1	-1.8217	-0.21536
Cr 267.716	0.0249	ppb	0.0815	328.1	46.6983	0.02485
Cu 324.754	0.1219	ppb	0.0066	5.4	253.573	0.12193
Fe 271.441	-0.6359	ppb	1.3707	215.5	15.1239	-0.63595
K 766.491	-0.0422	ppb	0.1800	427.0	263.802	-0.04216
Mg 279.078	2.2892	ppb	2.0355	88.9	26.2412	2.28923
Mn 257.610	0.1350	ppb	0.0041	3.1	130.665	0.13496
Mo 202.032	-0.1525	ppb	0.1599	104.8	7.8117	-0.15250
Na 330.237	-52.6916	ppb	24.3932	46.3	30.8499	-52.69162
Ni 231.604	-0.1105	ppb	0.2972	268.9	-5.3662	-0.11054
Pb 220.353	-0.1161	ppb	2.3728	2043.7	7.1240	-0.11611
Sb 206.834	3.2728	ppb	1.2163	37.2	0.8069	3.27280
Se 196.026	-0.4858	ppb	2.2371	460.5	2.0560	-0.48577
Sn 189.925	-1.1676	ppb	1.2485	106.9	-5.5679	-1.16759
Sr 216.596	-0.2180	ppb	0.2217	101.7	5.2796	-0.21799
Ti 334.941	0.0004	ppb	0.0209	5724.8	25.0587	0.00037
Tl 190.794	-1.4398	ppb	0.9491	65.9	-8.9135	-1.43975
V 292.401	0.2747	ppb	0.2405	87.5	-4.9614	0.27470
Zn 206.200	0.0565	ppb	0.1522	269.4	1.3889	0.05648

680-106679-g-1-c msd (Samp) **11/4/2014, 10:56:31 PM** **Rack 2, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	22.0290	21.9031	21.9156
Al 308.215	2037.20	2037.67	2033.17
As 188.980	48.1857	40.3258	39.9676
B 249.678	88.6540	89.1574	89.1364
Ba 389.178	51.5124	52.1842	51.9842
Be 313.042	20.7032	20.7198	20.7074
Ca 370.602	63279	63208	63265
Cd 226.502	20.4834	20.5866	20.5072
Co 228.615	20.3606	20.2511	19.6072
Cr 267.716	42.1894	42.4006	42.2735
Cu 324.754	43.1158	43.0377	42.7389
Fe 271.441	3003.40	3004.07	2996.77
K 766.491	3662.76	3658.70	3666.54
Mg 279.078	3443.71	3440.40	3439.09
Mn 257.610	235.968	235.905	235.193
Mo 202.032	39.7940	40.5083	39.9738
Na 330.237	7947.18	8002.76	8052.09

Label	Replicates Concentration		
Ni 231.604	41.1181	42.1995	40.6462
Pb 220.353	208.223	206.333	208.874
Sb 206.834	20.5149	20.1401	19.7097
Se 196.026	38.8851	39.2805	34.9808
Sn 189.925	80.7486	74.7337	77.3200
Sr 216.596	187.120	187.243	186.967
Ti 334.941	41.2113	41.1615	41.0694
Tl 190.794	14.4520	17.4522	16.7722
V 292.401	41.4982	40.7804	41.1911
Zn 206.200	47.3490	44.8066	49.8008

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.9492	ppb	0.0693	0.3	1927.70
Al 308.215	2036.02	ppb	2.4716	0.1	15569.7
As 188.980	42.8264	ppb	4.6448	10.8	23.4577
B 249.678	88.9826	ppb	0.2848	0.3	1653.57
Ba 389.178	51.8936	ppb	0.3449	0.7	1227.61
Be 313.042	20.7101	ppb	0.0086	0.0	42624.4
Ca 370.602	63250	ppb	37.74	0.1	190072
Cd 226.502	20.5257	ppb	0.0540	0.3	1040.85
Co 228.615	20.0729	ppb	0.4071	2.0	263.282
Cr 267.716	42.2879	ppb	0.1063	0.3	2597.09
Cu 324.754	42.9641	ppb	0.1989	0.5	3622.24
Fe 271.441	3001.41	ppb	4.0375	0.1	5315.14
K 766.491	3662.67	ppb	3.9214	0.1	163814
Mg 279.078	3441.07	ppb	2.3826	0.1	9924.62
Mn 257.610	235.688	ppb	0.4304	0.2	60342.5
Mo 202.032	40.0920	ppb	0.3715	0.9	317.982
Na 330.237	8000.68	ppb	52.4858	0.7	423.957
Ni 231.604	41.3213	ppb	0.7963	1.9	135.394
Pb 220.353	207.810	ppb	1.3203	0.6	365.045
Sb 206.834	20.1215	ppb	0.4029	2.0	26.7274
Se 196.026	37.7155	ppb	2.3765	6.3	20.3833
Sn 189.925	77.6007	ppb	3.0173	3.9	58.6694
Sr 216.596	187.110	ppb	0.1387	0.1	2674.17
Ti 334.941	41.1474	ppb	0.0720	0.2	13974.9
Tl 190.794	16.2255	ppb	1.5730	9.7	11.6122
V 292.401	41.1566	ppb	0.3602	0.9	1164.67
Zn 206.200	47.3188	ppb	2.4972	5.3	58.6233

680-106679-g-2-a (Samp) **11/4/2014, 11:00:47 PM** **Rack 2, Tube 4**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1470u	-0.2739u	-0.2800u
Al 308.215	4.4512	5.3863	3.6212
As 188.980	1.7962	-7.5043u	-0.9907u
B 249.678	9.4916	9.1107	8.5343
Ba 389.178	11.9225	12.0538	11.9474
Be 313.042	-0.0620u	-0.0525u	-0.0683u
Ca 370.602	82826	82806	82420
Cd 226.502	-0.1051	0.0601	-0.1049
Co 228.615	-0.1569u	-0.2264u	0.0254
Cr 267.716	0.0457	-0.1323u	0.0291

Label	Replicates Concentration		
Cu 324.754	-0.1152u	-0.0947u	-0.0466u
Fe 271.441	1717.52	1714.86	1713.45
K 766.491	1546.02	1544.02	1547.52
Mg 279.078	1847.45	1848.30	1850.02
Mn 257.610	27.6485	27.6412	27.6725
Mo 202.032	-0.1584u	-0.5488u	-0.6369u
Na 330.237	7602.07	7490.30	7591.61
Ni 231.604	0.2662	0.2495	0.4048
Pb 220.353	-1.5433u	-0.0114	0.0799
Sb 206.834	-1.3068u	-0.9123u	0.6453
Se 196.026	7.3744	1.2335	-5.6928u
Sn 189.925	0.8155	-1.0861u	-0.7902u
Sr 216.596	192.156	193.391	192.517
Ti 334.941	0.0087	-0.0588u	-0.0214u
Tl 190.794	-1.9581u	0.4967	-1.0291u
V 292.401	-0.1179u	-0.3300u	-0.0698u
Zn 206.200	4.8994	4.3991	5.6267

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2336	ppb	0.0751	32.1	-29.2613
Al 308.215	4.4862	ppb	0.8831	19.7	535.215
As 188.980	-2.2329	ppb	4.7731	213.8	-5.8837
B 249.678	9.0455	ppb	0.4820	5.3	276.925
Ba 389.178	11.9746	ppb	0.0698	0.6	230.644
Be 313.042	-0.0609	ppb	0.0080	13.1	-317.061
Ca 370.602	82684	ppb	229.0	0.3	248456
Cd 226.502	-0.0500	ppb	0.0953	190.7	31.8637
Co 228.615	-0.1193	ppb	0.1301	109.0	-0.4216
Cr 267.716	-0.0192	ppb	0.0983	512.9	45.2785
Cu 324.754	-0.0855	ppb	0.0352	41.2	238.054
Fe 271.441	1715.28	ppb	2.0664	0.1	3042.66
K 766.491	1545.86	ppb	1.7532	0.1	69292.6
Mg 279.078	1848.59	ppb	1.3107	0.1	5343.34
Mn 257.610	27.6541	ppb	0.0164	0.1	7183.97
Mo 202.032	-0.4480	ppb	0.2547	56.8	5.4417
Na 330.237	7561.33	ppb	61.7351	0.8	403.875
Ni 231.604	0.3068	ppb	0.0852	27.8	-3.7911
Pb 220.353	-0.4916	ppb	0.9119	185.5	6.6092
Sb 206.834	-0.5246	ppb	1.0322	196.7	-4.9875
Se 196.026	0.9717	ppb	6.5376	672.8	2.7821
Sn 189.925	-0.3536	ppb	1.0232	289.4	-4.9015
Sr 216.596	192.688	ppb	0.6350	0.3	2761.38
Ti 334.941	-0.0238	ppb	0.0338	141.8	20.1673
Tl 190.794	-0.8302	ppb	1.2394	149.3	-8.4256
V 292.401	-0.1726	ppb	0.1385	80.2	-17.1237
Zn 206.200	4.9751	ppb	0.6173	12.4	7.2886

680-106679-g-2-aSD^5 (Samp) **11/4/2014, 11:05:03 PM** **Rack 2, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1258u	-0.2748u	-0.3324u
Al 308.215	1.1534	2.1028	2.0992
As 188.980	-3.1600u	-2.7798u	-0.9337u

Label	Replicates Concentration		
B 249.678	-1.6519u	-1.9575u	-1.5591u
Ba 389.178	2.1689	1.9008	2.2203
Be 313.042	-0.0492u	-0.0505u	-0.0500u
Ca 370.602	16055	16254	16168
Cd 226.502	-0.0492u	-0.1921u	-0.0051
Co 228.615	0.1637	-0.3157u	-0.0358u
Cr 267.716	-0.2052u	-0.0719u	0.0048
Cu 324.754	-0.0185u	-0.1299u	-0.1747u
Fe 271.441	343.076	343.481	341.992
K 766.491	284.514	288.693	285.075
Mg 279.078	367.281	370.906	370.278
Mn 257.610	5.4446	5.4670	5.4761
Mo 202.032	0.1023	-0.5309u	-0.5712u
Na 330.237	1287.76	1477.74	1513.10
Ni 231.604	-0.5400u	-0.0887u	-0.5009u
Pb 220.353	0.5874	-0.0577u	2.1139
Sb 206.834	1.2008	1.6738	0.5828
Se 196.026	-6.2226u	-5.1199u	2.4792
Sn 189.925	-0.3776u	-1.8090u	0.5949
Sr 216.596	38.1699	38.9000	38.7043
Ti 334.941	-0.0669u	-0.0412u	-0.0500u
Tl 190.794	1.9459	-0.4931u	0.1526
V 292.401	-0.4809u	-0.1914u	-0.0782u
Zn 206.200	3.0424	2.4900	1.7114

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2443	ppb	0.1066	43.6	-24.3949
Al 308.215	1.7851	ppb	0.5471	30.6	512.688
As 188.980	-2.2912	ppb	1.1909	52.0	-5.9129
B 249.678	-1.7228	ppb	0.2085	12.1	94.3601
Ba 389.178	2.0967	ppb	0.1716	8.2	-18.3100
Be 313.042	-0.0499	ppb	0.0007	1.4	-319.019
Ca 370.602	16159	ppb	99.83	0.6	48586
Cd 226.502	-0.0821	ppb	0.0978	119.0	24.0867
Co 228.615	-0.0626	ppb	0.2408	384.7	0.2085
Cr 267.716	-0.0908	ppb	0.1063	117.1	39.9763
Cu 324.754	-0.1077	ppb	0.0805	74.7	235.680
Fe 271.441	342.850	ppb	0.7697	0.2	621.193
K 766.491	286.094	ppb	2.2680	0.8	13040.6
Mg 279.078	369.488	ppb	1.9376	0.5	1083.73
Mn 257.610	5.4626	ppb	0.0162	0.3	1496.29
Mo 202.032	-0.3333	ppb	0.3778	113.3	6.3995
Na 330.237	1426.20	ppb	121.191	8.5	103.275
Ni 231.604	-0.3765	ppb	0.2501	66.4	-6.2369
Pb 220.353	0.8812	ppb	1.1152	126.6	8.8663
Sb 206.834	1.1524	ppb	0.5471	47.5	-2.4503
Se 196.026	-2.9544	ppb	4.7379	160.4	0.8841
Sn 189.925	-0.5306	ppb	1.2092	227.9	-5.0480
Sr 216.596	38.5914	ppb	0.3779	1.0	559.546
Ti 334.941	-0.0527	ppb	0.0131	24.8	7.7418
Tl 190.794	0.5351	ppb	1.2637	236.2	-6.6293
V 292.401	-0.2502	ppb	0.2077	83.0	-19.8821
Zn 206.200	2.4146	ppb	0.6687	27.7	4.2424

680-106679-g-2-a-PDS (Samp) **11/4/2014, 11:09:19 PM** **Rack 2, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	99.8589	100.065	99.3588
Al 308.215	983.335	987.677	980.936
As 188.980	96.2904	99.9238	97.4966
B 249.678	202.477	203.793	202.596
Ba 389.178	96.1992	95.7277	96.4407
Be 313.042	97.0848	97.0024	96.8058
Ca 370.602	92753	92507	92299
Cd 226.502	97.2639	97.1563	96.9857
Co 228.615	97.6105	97.9449	98.2258
Cr 267.716	101.566	101.797	101.167
Cu 324.754	101.750	101.634	101.897
Fe 271.441	11510.4	11481.1	11471.9
K 766.491	12633.9	12597.1	12583.7
Mg 279.078	11494.7	11492.1	11440.4
Mn 257.610	1049.47	1047.39	1044.19
Mo 202.032	96.1863	96.5774	95.5186
Na 330.237	16274.5	16232.6	16029.6
Ni 231.604	96.3750	97.5209	98.5996
Pb 220.353	98.3991	96.6500	97.6825
Sb 206.834	95.9023	93.6930	94.7619
Se 196.026	96.8312	99.3575	98.9991
Sn 189.925	95.7571	94.9204	94.6838
Sr 216.596	288.223	288.415	286.266
Ti 334.941	98.2230	98.3015	97.9902
Tl 190.794	21.0276	19.9645	17.7289
V 292.401	98.0959	97.7260	98.0108
Zn 206.200	104.354	102.910	102.824

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	99.7608	ppb	0.3630	0.4	8786.95
Al 308.215	983.983	ppb	3.4168	0.3	7813.94
As 188.980	97.9036	ppb	1.8506	1.9	59.2404
B 249.678	202.955	ppb	0.7278	0.4	3601.15
Ba 389.178	96.1226	ppb	0.3627	0.4	2346.40
Be 313.042	96.9644	ppb	0.1434	0.1	200318
Ca 370.602	92520	ppb	227.3	0.2	277958
Cd 226.502	97.1353	ppb	0.1403	0.1	4814.40
Co 228.615	97.9271	ppb	0.3081	0.3	1280.95
Cr 267.716	101.510	ppb	0.3189	0.3	6175.13
Cu 324.754	101.760	ppb	0.1320	0.1	8247.42
Fe 271.441	11487.8	ppb	20.1023	0.2	20299.6
K 766.491	12604.9	ppb	25.9777	0.2	563111
Mg 279.078	11475.7	ppb	30.6244	0.3	33048.6
Mn 257.610	1047.02	ppb	2.6609	0.3	267689
Mo 202.032	96.0941	ppb	0.5354	0.6	749.370
Na 330.237	16178.9	ppb	131.012	0.8	821.629
Ni 231.604	97.4985	ppb	1.1125	1.1	326.526
Pb 220.353	97.5772	ppb	0.8793	0.9	176.118
Sb 206.834	94.7857	ppb	1.1048	1.2	142.056
Se 196.026	98.3959	ppb	1.3669	1.4	49.6520
Sn 189.925	95.1205	ppb	0.5639	0.6	72.9596
Sr 216.596	287.635	ppb	1.1892	0.4	4112.41

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	98.1716	ppb	0.1619	0.2	33314.8
Tl 190.794	19.5737	ppb	1.6837	8.6	14.9296
V 292.401	97.9442	ppb	0.1937	0.2	2791.12
Zn 206.200	103.363	ppb	0.8598	0.8	126.206

680-106679-g-3-a (Samp) **11/4/2014, 11:13:34 PM** **Rack 2, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1167u	-0.4533u	-0.2683u
Al 308.215	4.8411	4.0236	3.0378
As 188.980	0.8799	-1.4715u	-1.8579u
B 249.678	15.8378	15.0938	15.5967
Ba 389.178	13.9971	13.2248	12.6948
Be 313.042	-0.0779u	-0.0800u	-0.0756u
Ca 370.602	155860	153995	156317
Cd 226.502	-0.1963u	-0.1344	-0.1900u
Co 228.615	-0.1388u	-0.6529u	-0.7100u
Cr 267.716	-0.0079	-0.0872u	0.0457
Cu 324.754	-0.4254u	-0.1094u	0.0534
Fe 271.441	1599.93	1570.87	1593.19
K 766.491	2105.36	2079.22	2101.38
Mg 279.078	2656.15	2628.87	2657.95
Mn 257.610	56.0399	55.5529	56.0543
Mo 202.032	-0.3903u	-0.2519u	-0.6727u
Na 330.237	9330.45	9021.92	9037.82
Ni 231.604	-0.4428u	0.3064	-0.4844u
Pb 220.353	0.9324	-0.3655u	2.2863
Sb 206.834	-2.6570u	-2.3424u	0.2656
Se 196.026	0.3390	-2.8892u	-3.3800u
Sn 189.925	-2.1302u	-2.9220u	-3.2808u
Sr 216.596	486.774	483.538	488.225
Ti 334.941	0.0602	0.0827	0.0322
Tl 190.794	2.3815	-1.4031u	1.3109
V 292.401	-0.5422u	-0.0915u	-0.4084u
Zn 206.200	11.2538	9.7617	10.0337

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2016	ppb	0.2908	144.2	-36.9723
Al 308.215	3.9675	ppb	0.9029	22.8	531.157
As 188.980	-0.8165	ppb	1.4818	181.5	-4.9606
B 249.678	15.5094	ppb	0.3796	2.4	388.724
Ba 389.178	13.3055	ppb	0.6549	4.9	264.934
Be 313.042	-0.0778	ppb	0.0022	2.8	-323.698
Ca 370.602	155390	ppb	1230	0.8	466917
Cd 226.502	-0.1736	ppb	0.0341	19.6	25.2769
Co 228.615	-0.5005	ppb	0.3146	62.8	-5.4122
Cr 267.716	-0.0164	ppb	0.0669	406.7	45.5670
Cu 324.754	-0.1605	ppb	0.2435	151.7	232.110
Fe 271.441	1588.00	ppb	15.2104	1.0	2818.05
K 766.491	2095.32	ppb	14.0846	0.7	93827.8
Mg 279.078	2647.66	ppb	16.2933	0.6	7644.20
Mn 257.610	55.8824	ppb	0.2854	0.5	14402.4
Mo 202.032	-0.4383	ppb	0.2145	48.9	5.5233

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	9130.07	ppb	173.722	1.9	480.746
Ni 231.604	-0.2069	ppb	0.4451	215.1	-5.5446
Pb 220.353	0.9510	ppb	1.3260	139.4	9.0884
Sb 206.834	-1.5779	ppb	1.6043	101.7	-6.6207
Se 196.026	-1.9767	ppb	2.0205	102.2	1.3802
Sn 189.925	-2.7777	ppb	0.5887	21.2	-6.8777
Sr 216.596	486.179	ppb	2.3992	0.5	6928.14
Ti 334.941	0.0584	ppb	0.0253	43.3	49.4987
Tl 190.794	0.7631	ppb	1.9508	255.6	-6.5139
V 292.401	-0.3474	ppb	0.2315	66.6	-22.2257
Zn 206.200	10.3497	ppb	0.7947	7.7	13.8380

680-106679-g-4-a (Samp) **11/4/2014, 11:17:51 PM** **Rack 2, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3624u	-0.1302u	0.2205
Al 308.215	2.8847	3.6061	5.0122
As 188.980	-1.0850u	-3.6025u	-1.2507u
B 249.678	11.1973	11.3677	10.7529
Ba 389.178	0.2980	0.4837	0.8489
Be 313.042	-0.0630u	-0.0647u	-0.0567u
Ca 370.602	65233	65181	65208
Cd 226.502	-0.1398u	-0.1390u	-0.1878u
Co 228.615	-0.6451u	-0.4080u	0.0922
Cr 267.716	-0.0993u	-0.3114u	-0.1980u
Cu 324.754	-0.0142u	-0.2753u	-0.0050
Fe 271.441	985.657	989.040	983.229
K 766.491	1823.06	1819.43	1821.13
Mg 279.078	1425.63	1430.68	1417.79
Mn 257.610	21.5717	21.5956	21.5018
Mo 202.032	-0.6479u	-0.1372u	-0.0899u
Na 330.237	6216.51	6170.01	6173.19
Ni 231.604	-0.2182u	0.8066	0.4591
Pb 220.353	-1.4168u	1.3187	-0.6875u
Sb 206.834	2.1464	-0.2742u	-2.3374u
Se 196.026	5.9479	1.7102	-1.3497u
Sn 189.925	-1.6448u	0.0443	-1.9397u
Sr 216.596	190.925	190.629	188.973
Ti 334.941	-0.1059u	-0.1075u	-0.1023u
Tl 190.794	-4.5278u	-1.8207u	-1.6196u
V 292.401	-0.4055u	-0.3713u	-0.5885u
Zn 206.200	3.7380	4.4305	5.8074

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0907	ppb	0.2935	323.5	-16.4058
Al 308.215	3.8343	ppb	1.0820	28.2	529.044
As 188.980	-1.9794	ppb	1.4081	71.1	-5.7140
B 249.678	11.1060	ppb	0.3174	2.9	314.219
Ba 389.178	0.5435	ppb	0.2803	51.6	-54.9234
Be 313.042	-0.0615	ppb	0.0042	6.9	-324.712
Ca 370.602	65207	ppb	26.30	0.0	195953
Cd 226.502	-0.1555	ppb	0.0279	18.0	23.4081
Co 228.615	-0.3203	ppb	0.3764	117.5	-3.1107

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-0.2029	ppb	0.1061	52.3	33.7527
Cu 324.754	-0.0982	ppb	0.1534	156.3	236.729
Fe 271.441	985.976	ppb	2.9188	0.3	1755.88
K 766.491	1821.21	ppb	1.8138	0.1	81587.9
Mg 279.078	1424.70	ppb	6.4952	0.5	4122.59
Mn 257.610	21.5564	ppb	0.0487	0.2	5619.74
Mo 202.032	-0.2917	ppb	0.3094	106.1	6.6864
Na 330.237	6186.57	ppb	25.9746	0.4	336.608
Ni 231.604	0.3492	ppb	0.5212	149.3	-3.7149
Pb 220.353	-0.2619	ppb	1.4165	540.9	6.9498
Sb 206.834	-0.1551	ppb	2.2443	1447.5	-4.4487
Se 196.026	2.1028	ppb	3.6646	174.3	3.3102
Sn 189.925	-1.1801	ppb	1.0705	90.7	-5.5759
Sr 216.596	190.176	ppb	1.0519	0.6	2717.39
Ti 334.941	-0.1052	ppb	0.0027	2.5	-8.2550
Tl 190.794	-2.6560	ppb	1.6241	61.1	-10.4788
V 292.401	-0.4551	ppb	0.1168	25.7	-25.5609
Zn 206.200	4.6586	ppb	1.0534	22.6	6.9416

680-106679-g-5-a (Samp) **11/4/2014, 11:22:07 PM** **Rack 2, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2244u	-0.2533u	-0.2062u
Al 308.215	6.1511	6.8075	5.8110
As 188.980	-3.0533u	0.7198	-1.6400u
B 249.678	6.8433	7.2094	7.0611
Ba 389.178	2.7604	2.2344	2.1711
Be 313.042	-0.0538u	-0.0536u	-0.0589u
Ca 370.602	55142	54784	54700
Cd 226.502	-0.0836u	-0.1055u	-0.1535u
Co 228.615	-0.4384u	0.0057	-0.1438u
Cr 267.716	0.1163	-0.1490u	-0.0234u
Cu 324.754	0.1352	-0.0818u	0.2206
Fe 271.441	340.547	341.239	340.425
K 766.491	1418.99	1412.29	1412.26
Mg 279.078	1327.86	1322.14	1321.46
Mn 257.610	18.3141	18.2703	18.3327
Mo 202.032	-0.4311u	0.0825	-0.0569u
Na 330.237	4631.48	4739.73	4745.19
Ni 231.604	1.4463	0.2202	0.7040
Pb 220.353	0.5122	2.2410	-0.4822u
Sb 206.834	0.4491	0.5634	1.4694
Se 196.026	-3.2658u	-3.3307u	0.7299
Sn 189.925	-2.1762u	-4.9068u	-3.2035u
Sr 216.596	163.862	163.658	163.395
Ti 334.941	-0.0999u	-0.0733u	-0.1055u
Tl 190.794	-0.3091u	0.9802	1.9611
V 292.401	-0.3950u	-0.1529u	-0.3439u
Zn 206.200	5.2813	3.8888	4.0712

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2280	ppb	0.0238	10.4	-27.4240
Al 308.215	6.2565	ppb	0.5066	8.1	545.768

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-1.3245	ppb	1.9062	143.9	-5.2835
B 249.678	7.0379	ppb	0.1842	2.6	245.558
Ba 389.178	2.3886	ppb	0.3235	13.5	-9.5572
Be 313.042	-0.0555	ppb	0.0030	5.4	-316.132
Ca 370.602	54875	ppb	234.8	0.4	164916
Cd 226.502	-0.1142	ppb	0.0358	31.3	22.5044
Co 228.615	-0.1922	ppb	0.2260	117.6	-1.4936
Cr 267.716	-0.0187	ppb	0.1327	709.8	44.4657
Cu 324.754	0.0913	ppb	0.1559	170.7	251.335
Fe 271.441	340.737	ppb	0.4389	0.1	617.447
K 766.491	1414.51	ppb	3.8781	0.3	63427.7
Mg 279.078	1323.82	ppb	3.5147	0.3	3832.10
Mn 257.610	18.3057	ppb	0.0320	0.2	4786.08
Mo 202.032	-0.1351	ppb	0.2656	196.6	7.9279
Na 330.237	4705.46	ppb	64.1292	1.4	264.108
Ni 231.604	0.7901	ppb	0.6176	78.2	-2.2795
Pb 220.353	0.7570	ppb	1.3780	182.0	8.6550
Sb 206.834	0.8273	ppb	0.5590	67.6	-2.9585
Se 196.026	-1.9555	ppb	2.3259	118.9	1.3638
Sn 189.925	-3.4288	ppb	1.3791	40.2	-7.4102
Sr 216.596	163.638	ppb	0.2344	0.1	2338.06
Ti 334.941	-0.0929	ppb	0.0172	18.5	-4.2323
Tl 190.794	0.8774	ppb	1.1386	129.8	-6.2199
V 292.401	-0.2973	ppb	0.1276	42.9	-21.3176
Zn 206.200	4.4138	ppb	0.7568	17.1	6.6761

680-106679-g-6-a (Samp) **11/4/2014, 11:26:23 PM** **Rack 2, Tube 10**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2970u	0.0931	-0.0982u
Al 308.215	7.1818	7.6908	8.0404
As 188.980	-0.1132u	-2.2977u	-1.6019u
B 249.678	15.5352	15.7615	15.5095
Ba 389.178	3.7488	3.7767	3.4222
Be 313.042	-0.0663u	-0.0727u	-0.0676u
Ca 370.602	83356	83417	83392
Cd 226.502	-0.0556	-0.1271u	-0.0348
Co 228.615	-0.1303u	-0.1672u	-0.1460u
Cr 267.716	-0.1105u	-0.0981u	-0.0697u
Cu 324.754	0.7379	0.9173	0.8220
Fe 271.441	880.527	880.669	880.210
K 766.491	2612.31	2612.51	2614.59
Mg 279.078	2103.45	2095.71	2097.82
Mn 257.610	17.7708	17.7460	17.6835
Mo 202.032	-0.7582u	-0.7618u	-0.5960u
Na 330.237	10682.5	10437.1	10149.5
Ni 231.604	0.0700	-0.1651u	-0.3277u
Pb 220.353	1.0445	0.3984	1.4232
Sb 206.834	-1.0958u	2.2458	-0.7484u
Se 196.026	0.6061	-0.0026	2.6399
Sn 189.925	-0.0717u	1.3288	0.5848
Sr 216.596	194.503	193.611	193.032
Ti 334.941	0.0112	0.0351	0.0333

Label	Replicates Concentration		
Tl 190.794	-0.3655u	-0.6972u	0.3912
V 292.401	-0.4640u	-0.4306u	-0.2385u
Zn 206.200	7.0710	6.1782	7.7635

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1007	ppb	0.1951	193.7	-17.4989
Al 308.215	7.6377	ppb	0.4318	5.7	556.973
As 188.980	-1.3376	ppb	1.1159	83.4	-5.2952
B 249.678	15.6021	ppb	0.1387	0.9	392.038
Ba 389.178	3.6492	ppb	0.1971	5.4	23.3455
Be 313.042	-0.0689	ppb	0.0034	4.9	-333.563
Ca 370.602	83389	ppb	30.46	0.0	250583
Cd 226.502	-0.0725	ppb	0.0484	66.8	26.9482
Co 228.615	-0.1479	ppb	0.0185	12.5	-0.8567
Cr 267.716	-0.0928	ppb	0.0209	22.6	40.4065
Cu 324.754	0.8257	ppb	0.0898	10.9	309.261
Fe 271.441	880.469	ppb	0.2349	0.0	1569.74
K 766.491	2613.14	ppb	1.2615	0.0	116950
Mg 279.078	2098.99	ppb	4.0010	0.2	6064.76
Mn 257.610	17.7334	ppb	0.0450	0.3	4649.17
Mo 202.032	-0.7053	ppb	0.0947	13.4	3.5017
Na 330.237	10423.0	ppb	266.737	2.6	544.430
Ni 231.604	-0.1409	ppb	0.2000	141.9	-5.3876
Pb 220.353	0.9554	ppb	0.5182	54.2	9.0357
Sb 206.834	0.1339	ppb	1.8372	1372.6	-4.0000
Se 196.026	1.0811	ppb	1.3838	128.0	2.8202
Sn 189.925	0.6140	ppb	0.7007	114.1	-4.1114
Sr 216.596	193.715	ppb	0.7411	0.4	2775.09
Ti 334.941	0.0265	ppb	0.0133	50.2	37.3611
Tl 190.794	-0.2238	ppb	0.5578	249.2	-7.5947
V 292.401	-0.3777	ppb	0.1217	32.2	-23.3648
Zn 206.200	7.0042	ppb	0.7947	11.3	9.8021

680-106679-g-8-a (Samp) **11/4/2014, 11:30:40 PM** **Rack 2, Tube 11**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0512u	-0.0249u	0.0831
Al 308.215	0.9577	1.5248	1.8149
As 188.980	-3.2053u	2.8243	0.4644
B 249.678	-3.7906u	-4.0914u	-4.0262u
Ba 389.178	0.4203	0.3803	0.1505
Be 313.042	-0.0445u	-0.0403u	-0.0478u
Ca 370.602	10.93	6.785	12.08
Cd 226.502	-0.2069u	-0.0380u	0.0620
Co 228.615	0.1236	-0.0658u	-0.0287u
Cr 267.716	-0.0813u	-0.0509u	-0.1404u
Cu 324.754	0.0345	-0.2644u	0.1710
Fe 271.441	-1.6494u	0.6415	0.3634
K 766.491	0.2921	0.2684	0.4658
Mg 279.078	1.5074	3.4464	2.1501
Mn 257.610	-0.0352u	-0.0290u	-0.0252u
Mo 202.032	-0.7439u	-0.5331u	-0.3974u
Na 330.237	-117.859u	60.3813	-35.7030u

Label	Replicates Concentration		
Ni 231.604	2.0893	0.8617	1.2850
Pb 220.353	1.6103	-0.2392u	-0.9195u
Sb 206.834	-0.0280u	-0.6950u	-0.0492u
Se 196.026	1.1064	-1.9009u	-2.0251u
Sn 189.925	-0.9744u	-2.0020u	0.3006
Sr 216.596	-0.0878u	-0.1436u	-0.0370u
Ti 334.941	-0.2258u	-0.1696u	-0.1788u
Tl 190.794	1.3466	0.6387	-3.3579u
V 292.401	-0.0580u	-0.0166u	-0.0879u
Zn 206.200	2.9834	2.4342	3.5224

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0023	ppb	0.0712	3057.9	-1.1986
Al 308.215	1.4325	ppb	0.4360	30.4	509.443
As 188.980	0.0278	ppb	3.0384	10922.1	-4.4006
B 249.678	-3.9694	ppb	0.1583	4.0	56.3987
Ba 389.178	0.3170	ppb	0.1456	45.9	-63.3761
Be 313.042	-0.0442	ppb	0.0038	8.5	-313.215
Ca 370.602	9.932	ppb	2.786	28.0	67.30
Cd 226.502	-0.0610	ppb	0.1359	222.9	23.5633
Co 228.615	0.0097	ppb	0.1004	1034.0	1.1276
Cr 267.716	-0.0909	ppb	0.0455	50.1	39.7232
Cu 324.754	-0.0197	ppb	0.2227	1133.2	242.433
Fe 271.441	-0.2148	ppb	1.2502	582.0	15.9019
K 766.491	0.3421	ppb	0.1078	31.5	280.960
Mg 279.078	2.3680	ppb	0.9877	41.7	26.4701
Mn 257.610	-0.0298	ppb	0.0050	16.9	88.5945
Mo 202.032	-0.5581	ppb	0.1746	31.3	4.6835
Na 330.237	-31.0601	ppb	89.2106	287.2	31.8425
Ni 231.604	1.4120	ppb	0.6235	44.2	-0.2023
Pb 220.353	0.1506	ppb	1.3092	869.6	7.5834
Sb 206.834	-0.2574	ppb	0.3791	147.3	-4.6363
Se 196.026	-0.9398	ppb	1.7732	188.7	1.8393
Sn 189.925	-0.8919	ppb	1.1535	129.3	-5.3431
Sr 216.596	-0.0895	ppb	0.0533	59.6	7.0553
Ti 334.941	-0.1914	ppb	0.0302	15.8	-39.9151
Tl 190.794	-0.4575	ppb	2.5366	554.4	-7.7530
V 292.401	-0.0542	ppb	0.0358	66.1	-14.3463
Zn 206.200	2.9800	ppb	0.5441	18.3	4.9484

680-106679-e-21-a (Samp) **11/4/2014, 11:34:58 PM** **Rack 2, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4920u	-0.2819u	-0.3678u
Al 308.215	3.2692	1.6543	2.7641
As 188.980	-4.0509u	-5.4857u	2.4684
B 249.678	7.7557	7.4962	7.3705
Ba 389.178	1.1167	1.8366	1.6001
Be 313.042	-0.0638u	-0.0639u	-0.0663u
Ca 370.602	72907	72464	72657
Cd 226.502	-0.1915u	-0.0825	-0.2448u
Co 228.615	-0.2494u	-0.5033u	-0.6427u
Cr 267.716	-0.0622u	-0.1430u	-0.0505u

Label	Replicates Concentration		
Cu 324.754	0.6832	0.8892	0.7512
Fe 271.441	1281.65	1290.76	1275.87
K 766.491	1920.08	1916.89	1912.99
Mg 279.078	1640.76	1639.84	1639.09
Mn 257.610	47.5552	47.4958	47.4836
Mo 202.032	-0.6893u	-0.5630u	0.2045
Na 330.237	7399.21	7403.14	7504.05
Ni 231.604	-0.1307u	-0.0281	-0.8555u
Pb 220.353	1.6029	-0.4575u	-0.1800u
Sb 206.834	-1.0830u	1.8367	-1.1620u
Se 196.026	-3.6720u	0.5825	3.1875
Sn 189.925	-4.2606u	-0.3217u	-0.6203u
Sr 216.596	187.903	189.246	189.398
Ti 334.941	-0.1226u	-0.0597u	-0.0713u
Tl 190.794	-1.3106u	0.8631	-1.0370u
V 292.401	-0.3708u	-0.3610u	-0.1894u
Zn 206.200	3.6290	2.7787	3.7261

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3806	ppb	0.1056	27.8	-41.8878
Al 308.215	2.5625	ppb	0.8261	32.2	520.197
As 188.980	-2.3561	ppb	4.2393	179.9	-5.9611
B 249.678	7.5408	ppb	0.1965	2.6	251.974
Ba 389.178	1.5178	ppb	0.3669	24.2	-30.1630
Be 313.042	-0.0647	ppb	0.0014	2.2	-328.532
Ca 370.602	72676	ppb	222.0	0.3	218390
Cd 226.502	-0.1729	ppb	0.0828	47.9	23.9031
Co 228.615	-0.4651	ppb	0.1994	42.9	-4.9788
Cr 267.716	-0.0852	ppb	0.0504	59.1	41.1712
Cu 324.754	0.7745	ppb	0.1050	13.6	305.433
Fe 271.441	1282.76	ppb	7.5054	0.6	2279.50
K 766.491	1916.65	ppb	3.5474	0.2	85849.9
Mg 279.078	1639.90	ppb	0.8379	0.1	4741.83
Mn 257.610	47.5115	ppb	0.0383	0.1	12252.8
Mo 202.032	-0.3493	ppb	0.4837	138.5	6.2265
Na 330.237	7435.47	ppb	59.4265	0.8	397.843
Ni 231.604	-0.3381	ppb	0.4510	133.4	-6.0181
Pb 220.353	0.3218	ppb	1.1181	347.5	7.9815
Sb 206.834	-0.1361	ppb	1.7089	1255.9	-4.4077
Se 196.026	0.0327	ppb	3.4626	10588.6	2.3327
Sn 189.925	-1.7342	ppb	2.1930	126.5	-6.0274
Sr 216.596	188.849	ppb	0.8230	0.4	2702.50
Ti 334.941	-0.0845	ppb	0.0335	39.6	-0.8751
Tl 190.794	-0.4948	ppb	1.1839	239.3	-7.9581
V 292.401	-0.3070	ppb	0.1020	33.2	-21.1903
Zn 206.200	3.3779	ppb	0.5212	15.4	5.3669

Cont Calib Verif (CCV) **11/4/2014, 11:39:14 PM** **Rack 2, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	504.280	499.039	507.963
Al 308.215	4815.39	4799.68	4822.98
As 188.980	489.253	487.520	491.609

Label	Replicates Concentration		
B 249.678	483.972	481.659	486.603
Ba 389.178	4918.98	4917.55	4926.63
Be 313.042	492.426	490.173	490.082
Ca 370.602	4882	4889	4903
Cd 226.502	494.875	491.964	494.560
Co 228.615	497.610	494.740	497.660
Cr 267.716	5042.57	5028.00	5043.36
Cu 324.754	5033.12	5018.01	5043.01
Fe 271.441	4882.77	4876.00	4881.87
K 766.491	10267.4	10265.9	10275.5
Mg 279.078	4859.71	4852.51	4867.85
Mn 257.610	4991.81	4972.23	4986.14
Mo 202.032	489.695	485.598	489.653
Na 330.237	7182.07	7311.60	7298.66
Ni 231.604	2461.57	2448.55	2470.22
Pb 220.353	497.640	491.791	498.896
Sb 206.834	946.367	943.799	953.203
Se 196.026	4944.73	4935.45	4927.82
Sn 189.925	4966.05	4906.27	4951.06
Sr 216.596	2442.40	2427.47	2435.36
Ti 334.941	487.994	486.806	488.534
Tl 190.794	4990.64	4973.66	4982.41
V 292.401	4870.83	4862.65	4880.74
Zn 206.200	2477.21	2469.99	2465.16

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	503.761	ppb	4.4845	0.9	44363.5	100.75215
Al 308.215	4812.68	ppb	11.8845	0.2	36663.8	96.25360
As 188.980	489.461	ppb	2.0526	0.4	314.174	97.89212
B 249.678	484.078	ppb	2.4740	0.5	8481.27	96.81560
Ba 389.178	4921.05	ppb	4.8829	0.1	122414	98.42107
Be 313.042	490.894	ppb	1.3275	0.3	1015140	98.17872
Ca 370.602	4891	ppb	11.03	0.2	15077	97.82939
Cd 226.502	493.800	ppb	1.5975	0.3	24122.3	98.75993
Co 228.615	496.670	ppb	1.6716	0.3	6496.63	99.33401
Cr 267.716	5037.98	ppb	8.6457	0.2	303741	100.75954
Cu 324.754	5031.38	ppb	12.5901	0.3	395515	100.62762
Fe 271.441	4880.21	ppb	3.6726	0.1	8750.22	97.60427
K 766.491	10269.6	ppb	5.1716	0.1	458834	102.69608
Mg 279.078	4860.02	ppb	7.6757	0.2	13906.4	97.20041
Mn 257.610	4983.39	ppb	10.0778	0.2	1273106	99.66787
Mo 202.032	488.315	ppb	2.3532	0.5	3768.77	97.66307
Na 330.237	7264.11	ppb	71.3419	1.0	325.091	96.85483
Ni 231.604	2460.12	ppb	10.9074	0.4	8338.68	98.40464
Pb 220.353	496.109	ppb	3.7920	0.8	865.604	99.22179
Sb 206.834	947.790	ppb	4.8609	0.5	1514.12	94.77898
Se 196.026	4936.00	ppb	8.4682	0.2	2358.90	98.71993
Sn 189.925	4941.12	ppb	31.1024	0.6	4024.80	98.82249
Sr 216.596	2435.08	ppb	7.4646	0.3	34237.0	97.40308
Ti 334.941	487.778	ppb	0.8840	0.2	165323	97.55560
Tl 190.794	4982.24	ppb	8.4904	0.2	5880.77	99.64471
V 292.401	4871.40	ppb	9.0544	0.2	139908	97.42809
Zn 206.200	2470.79	ppb	6.0642	0.2	2991.40	98.83157

Cont Calib Blank (CCB) **11/4/2014, 11:43:30 PM** **Rack 2, Tube 14**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3692u	-0.1632u	0.0560
Al 308.215	-2.1092u	0.2117	-2.1445u
As 188.980	-1.5795u	-1.4109u	-3.2394u
B 249.678	1.2668	0.9924	0.1516
Ba 389.178	0.4257	0.5804	0.8839
Be 313.042	-0.0190u	-0.0230u	-0.0131u
Ca 370.602	6.987	2.319	2.131
Cd 226.502	-0.0217u	-0.0151u	0.0866
Co 228.615	0.0421	-0.4747u	-0.2068u
Cr 267.716	0.1366	0.2146	0.1455
Cu 324.754	0.1231	0.0271	0.0927
Fe 271.441	2.6553	-4.0141u	-0.7113u
K 766.491	0.1289	0.0258	0.0769
Mg 279.078	1.0189	3.6946	3.9879
Mn 257.610	0.1369	0.2027	0.2095
Mo 202.032	0.0259	0.2692	0.0226
Na 330.237	-78.1558u	47.0221	-121.106u
Ni 231.604	0.0150	0.2563	0.4883
Pb 220.353	-0.9515u	-0.7660u	1.8749
Sb 206.834	1.8769	2.1140	5.4802
Se 196.026	-0.6589u	-0.8563u	0.9708
Sn 189.925	-0.2170u	0.0560	0.6658
Sr 216.596	0.2489	-0.1696u	0.3162
Ti 334.941	0.0126	-0.0466u	-0.0035u
Tl 190.794	1.2155	-1.9828u	-0.2330u
V 292.401	-0.0072u	0.4222	0.4361
Zn 206.200	-0.8998u	0.4023	0.7454

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1588	ppb	0.2127	133.9	-15.4019	-0.15881
Al 308.215	-1.3474	ppb	1.3503	100.2	488.943	-1.34737
As 188.980	-2.0766	ppb	1.0106	48.7	-5.7711	-2.07660
B 249.678	0.8036	ppb	0.5811	72.3	138.810	0.80362
Ba 389.178	0.6300	ppb	0.2331	37.0	-55.5877	0.63001
Be 313.042	-0.0184	ppb	0.0050	27.0	-259.912	-0.01838
Ca 370.602	3.812	ppb	2.751	72.2	49.06	3.81236
Cd 226.502	0.0166	ppb	0.0607	365.7	27.3279	0.01660
Co 228.615	-0.2131	ppb	0.2585	121.3	-1.7991	-0.21311
Cr 267.716	0.1656	ppb	0.0427	25.8	55.1796	0.16556
Cu 324.754	0.0810	ppb	0.0490	60.6	250.360	0.08097
Fe 271.441	-0.6900	ppb	3.3347	483.3	15.0510	-0.69003
K 766.491	0.0772	ppb	0.0516	66.8	269.133	0.07722
Mg 279.078	2.9004	ppb	1.6360	56.4	28.0003	2.90045
Mn 257.610	0.1830	ppb	0.0401	21.9	142.940	0.18304
Mo 202.032	0.1059	ppb	0.1414	133.6	9.8044	0.10587
Na 330.237	-50.7467	ppb	87.3512	172.1	30.9432	-50.74671
Ni 231.604	0.2532	ppb	0.2367	93.5	-4.1329	0.25320
Pb 220.353	0.0525	ppb	1.5810	3013.6	7.4137	0.05246
Sb 206.834	3.1570	ppb	2.0154	63.8	0.6265	3.15704
Se 196.026	-0.1815	ppb	1.0027	552.6	2.2012	-0.18147
Sn 189.925	0.1683	ppb	0.4520	268.6	-4.4785	0.16828
Sr 216.596	0.1318	ppb	0.2632	199.7	10.1835	0.13185

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	-0.0125	ppb	0.0306	245.7	20.7135	-0.01246
Tl 190.794	-0.3334	ppb	1.6015	480.4	-7.6082	-0.33340
V 292.401	0.2837	ppb	0.2520	88.8	-4.7441	0.28366
Zn 206.200	0.0827	ppb	0.8680	1050.1	1.4204	0.08266

680-106712-s-1-a (Samp) **11/4/2014, 11:47:46 PM** **Rack 2, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0556u	0.0273	0.0137u
Al 308.215	4.8656	5.2933	7.2060
As 188.980	-3.2955u	-4.0690u	-2.6706u
B 249.678	3.7499	3.1712	3.4926
Ba 389.178	36.3899	36.4754	37.0633
Be 313.042	-0.0137u	-0.0151u	-0.0141u
Ca 370.602	3591	3610	3626
Cd 226.502	-0.1241	-0.2317	-0.2091
Co 228.615	-0.1951u	0.0909	-0.5654u
Cr 267.716	-0.0383u	0.0063	-0.0941u
Cu 324.754	2.2689	2.3883	2.3984
Fe 271.441	3203.28	3203.64	3216.65
K 766.491	1061.92	1063.01	1068.88
Mg 279.078	795.661	790.715	800.666
Mn 257.610	47.3370	47.3372	47.5894
Mo 202.032	-0.3239u	-0.4588u	-0.1116u
Na 330.237	1643.24	1632.82	1641.60
Ni 231.604	-0.0672	0.1340	-0.5110u
Pb 220.353	1.9628	-1.5055u	1.7596
Sb 206.834	0.6647	-1.7121u	-2.6974u
Se 196.026	0.6491	2.7078	-0.6430u
Sn 189.925	-1.2535u	-1.2151u	0.7740
Sr 216.596	31.0773	31.0008	31.6108
Ti 334.941	-0.1059u	-0.1374u	-0.0868u
Tl 190.794	-3.4310u	-0.6245u	0.1561u
V 292.401	-0.1981u	-0.0395	0.0648
Zn 206.200	14.1151	14.2785	13.9321

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0049	ppb	0.0444	913.1	-3.2853
Al 308.215	5.7883	ppb	1.2462	21.5	547.649
As 188.980	-3.3450	ppb	0.7005	20.9	-6.6174
B 249.678	3.4712	ppb	0.2899	8.4	177.115
Ba 389.178	36.6429	ppb	0.3666	1.0	843.790
Be 313.042	-0.0143	ppb	0.0007	4.8	-250.433
Ca 370.602	3609	ppb	17.11	0.5	10842
Cd 226.502	-0.1883	ppb	0.0567	30.1	31.9714
Co 228.615	-0.2232	ppb	0.3291	147.4	-1.6700
Cr 267.716	-0.0420	ppb	0.0503	119.8	44.6741
Cu 324.754	2.3519	ppb	0.0720	3.1	430.261
Fe 271.441	3207.86	ppb	7.6154	0.2	5676.11
K 766.491	1064.60	ppb	3.7405	0.4	47803.4
Mg 279.078	795.681	ppb	4.9754	0.6	2310.32
Mn 257.610	47.4212	ppb	0.1456	0.3	12227.9
Mo 202.032	-0.2981	ppb	0.1751	58.7	6.5184

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	1639.22	ppb	5.6045	0.3	112.731
Ni 231.604	-0.1481	ppb	0.3300	222.9	-5.1937
Pb 220.353	0.7390	ppb	1.9464	263.4	8.8397
Sb 206.834	-1.2483	ppb	1.7283	138.5	-6.0550
Se 196.026	0.9046	ppb	1.6899	186.8	2.7759
Sn 189.925	-0.5649	ppb	1.1597	205.3	-5.0758
Sr 216.596	31.2296	ppb	0.3323	1.1	454.356
Ti 334.941	-0.1100	ppb	0.0256	23.2	-10.4258
Tl 190.794	-1.2998	ppb	1.8865	145.1	-9.1869
V 292.401	-0.0576	ppb	0.1324	229.7	-13.2068
Zn 206.200	14.1086	ppb	0.1733	1.2	18.3305

680-106742-a-1-a (Samp) **11/4/2014, 11:52:01 PM** **Rack 2, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2256u	-0.0182u	-0.1157u
Al 308.215	18.7984	18.0339	17.7591
As 188.980	0.1988	-4.2739u	-5.7862u
B 249.678	25.1729	24.9714	24.3539
Ba 389.178	75.3399	74.3966	74.2612
Be 313.042	-0.0572u	-0.0493u	-0.0568u
Ca 370.602	33512	33184	33212
Cd 226.502	-0.1879u	-0.1298u	-0.2103u
Co 228.615	-0.2058u	-0.1766u	0.5718
Cr 267.716	0.4079	0.1726	0.2121
Cu 324.754	0.9493	0.6182	1.0713
Fe 271.441	29.4957	27.7006	24.0684
K 766.491	2900.88	2877.45	2886.88
Mg 279.078	29481.6	29271.8	29249.7
Mn 257.610	6.9608	6.9661	6.9413
Mo 202.032	-0.1531u	0.1559	-0.2104u
Na 330.237	38675.2	38362.7	38410.8
Ni 231.604	1.7706	2.5572	1.7887
Pb 220.353	-0.7247u	0.1935	-0.5717u
Sb 206.834	-2.4529u	-0.0075u	-0.2688u
Se 196.026	-0.5691u	-4.2052u	0.4505
Sn 189.925	0.7840	-2.9195u	2.7222
Sr 216.596	161.517	160.014	159.592
Ti 334.941	0.0748	0.2056	0.1299
Tl 190.794	-0.9093u	0.0199	-0.7821u
V 292.401	9.2766	9.5625	9.5880
Zn 206.200	1.7180	2.5465	3.4788

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1198	ppb	0.1037	86.6	-18.2279
Al 308.215	18.1971	ppb	0.5385	3.0	634.596
As 188.980	-3.2871	ppb	3.1121	94.7	-6.5593
B 249.678	24.8328	ppb	0.4267	1.7	553.344
Ba 389.178	74.6659	ppb	0.5876	0.8	1832.54
Be 313.042	-0.0544	ppb	0.0044	8.2	-327.272
Ca 370.602	33303	ppb	181.8	0.5	100102
Cd 226.502	-0.1760	ppb	0.0416	23.6	18.2813
Co 228.615	0.0631	ppb	0.4408	698.1	1.8271

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.2642	ppb	0.1260	47.7	61.9435
Cu 324.754	0.8796	ppb	0.2345	26.7	312.970
Fe 271.441	27.0883	ppb	2.7650	10.2	64.1838
K 766.491	2888.40	ppb	11.7905	0.4	129241
Mg 279.078	29334.4	ppb	127.977	0.4	84508.2
Mn 257.610	6.9561	ppb	0.0130	0.2	2138.28
Mo 202.032	-0.0692	ppb	0.1970	284.7	8.4406
Na 330.237	38482.9	ppb	168.264	0.4	1921.44
Ni 231.604	2.0388	ppb	0.4490	22.0	1.9260
Pb 220.353	-0.3677	ppb	0.4920	133.8	6.6947
Sb 206.834	-0.9097	ppb	1.3428	147.6	-5.6467
Se 196.026	-1.4413	ppb	2.4474	169.8	1.6023
Sn 189.925	0.1955	ppb	2.8665	1466.0	-4.4427
Sr 216.596	160.375	ppb	1.0118	0.6	2282.26
Ti 334.941	0.1368	ppb	0.0657	48.0	127.858
Tl 190.794	-0.5571	ppb	0.5038	90.4	-7.8540
V 292.401	9.4757	ppb	0.1729	1.8	259.957
Zn 206.200	2.5811	ppb	0.8809	34.1	4.4600

680-106741-j-1-a (Samp) **11/4/2014, 11:56:17 PM** **Rack 2, Tube 17**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2712u	-0.1869u	-0.1099u
Al 308.215	96.5586	95.4453	98.8260
As 188.980	-2.4582u	-1.6744u	-2.0691u
B 249.678	8.3659	8.2525	8.4749
Ba 389.178	1.0482	1.5458	1.2426
Be 313.042	-0.0508u	-0.0478u	-0.0482u
Ca 370.602	12581	12617	12693
Cd 226.502	-0.0958u	-0.2299u	-0.0996u
Co 228.615	-0.3701u	-0.2705u	-0.6442u
Cr 267.716	-0.0611u	0.1157	0.0485
Cu 324.754	-0.1366u	-0.1029u	0.0733
Fe 271.441	15.4270	13.6565	14.8900
K 766.491	1580.32	1591.38	1594.60
Mg 279.078	1951.58	1959.20	1967.60
Mn 257.610	0.4015	0.4041	0.4496
Mo 202.032	-0.6776u	-0.5593u	-0.0155u
Na 330.237	11031.9	11090.2	11237.2
Ni 231.604	0.6536	-1.0067u	0.1565
Pb 220.353	0.2392	0.6958	-0.6502u
Sb 206.834	-0.9791u	-1.2166u	0.8891
Se 196.026	-3.5246u	3.3302	-1.1118u
Sn 189.925	-0.6949u	-0.9053u	0.5591
Sr 216.596	81.8006	82.0294	82.3164
Ti 334.941	-0.1108u	-0.1340u	-0.1698u
Tl 190.794	-0.6125u	-0.1012u	-2.4921u
V 292.401	0.1152	0.2085	0.0296
Zn 206.200	3.8297	3.1384	3.0648

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1893	ppb	0.0807	42.6	-21.0881
Al 308.215	96.9433	ppb	1.7229	1.8	1215.88

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-2.0672	ppb	0.3919	19.0	-5.7640
B 249.678	8.3644	ppb	0.1112	1.3	269.208
Ba 389.178	1.2789	ppb	0.2508	19.6	-36.3827
Be 313.042	-0.0489	ppb	0.0017	3.4	-319.685
Ca 370.602	12630	ppb	57.17	0.5	37987
Cd 226.502	-0.1418	ppb	0.0763	53.8	19.6320
Co 228.615	-0.4283	ppb	0.1935	45.2	-4.5966
Cr 267.716	0.0344	ppb	0.0892	259.6	47.5366
Cu 324.754	-0.0554	ppb	0.1127	203.5	239.640
Fe 271.441	14.6578	ppb	0.9078	6.2	42.0838
K 766.491	1588.77	ppb	7.4909	0.5	71208.8
Mg 279.078	1959.46	ppb	8.0165	0.4	5663.23
Mn 257.610	0.4184	ppb	0.0271	6.5	220.923
Mo 202.032	-0.4174	ppb	0.3531	84.6	5.7678
Na 330.237	11119.7	ppb	105.766	1.0	578.908
Ni 231.604	-0.0655	ppb	0.8521	1300.2	-5.2116
Pb 220.353	0.0949	ppb	0.6845	721.1	7.4873
Sb 206.834	-0.4356	ppb	1.1533	264.8	-4.9124
Se 196.026	-0.4354	ppb	3.4771	798.6	2.0803
Sn 189.925	-0.3470	ppb	0.7918	228.2	-4.8948
Sr 216.596	82.0488	ppb	0.2584	0.3	1169.83
Ti 334.941	-0.1382	ppb	0.0297	21.5	-18.9273
Tl 190.794	-1.0686	ppb	1.2590	117.8	-8.4776
V 292.401	0.1178	ppb	0.0895	76.0	-9.4998
Zn 206.200	3.3443	ppb	0.4220	12.6	5.3906

680-106741-j-2-a (Samp) **11/5/2014, 12:00:33 AM** **Rack 2, Tube 18**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0796u	-0.1506u	-0.0816u
Al 308.215	5.0644	5.9605	5.4106
As 188.980	-4.8510u	-1.1029u	-1.8377u
B 249.678	9.1904	9.5627	8.3271
Ba 389.178	3.5979	4.0614	4.0726
Be 313.042	-0.0584u	-0.0587u	-0.0591u
Ca 370.602	59844	59611	59816
Cd 226.502	-0.1536u	-0.1503u	0.0459
Co 228.615	-0.2368u	-0.5737u	-0.0387u
Cr 267.716	-0.1542u	0.0383	0.0041
Cu 324.754	0.0277	0.0575	0.0023
Fe 271.441	226.177	231.483	228.490
K 766.491	1270.42	1267.63	1275.24
Mg 279.078	1550.10	1542.96	1545.15
Mn 257.610	7.4532	7.4174	7.4554
Mo 202.032	-0.1147u	-0.3015u	-0.7729u
Na 330.237	6255.97	5914.74	5980.90
Ni 231.604	0.8123	-0.3431u	0.9137
Pb 220.353	-0.2864u	0.9987	1.8696
Sb 206.834	0.0575	2.6202	0.0255
Se 196.026	1.6301	-6.8204u	-1.6287u
Sn 189.925	-0.4463u	-1.1100u	-2.7455u
Sr 216.596	134.088	133.669	133.484
Ti 334.941	-0.0541u	-0.0908u	-0.0428u

Label	Replicates Concentration		
Tl 190.794	-1.0392u	0.8015	1.7841
V 292.401	-0.1336u	-0.4071u	-0.2086u
Zn 206.200	3.2135	3.6469	2.5868

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1039	ppb	0.0405	38.9	-15.5110
Al 308.215	5.4785	ppb	0.4519	8.2	539.818
As 188.980	-2.5972	ppb	1.9861	76.5	-6.1114
B 249.678	9.0267	ppb	0.6339	7.0	280.138
Ba 389.178	3.9106	ppb	0.2709	6.9	28.5909
Be 313.042	-0.0587	ppb	0.0004	0.7	-321.114
Ca 370.602	59757	ppb	127.0	0.2	179585
Cd 226.502	-0.0860	ppb	0.1142	132.9	23.3509
Co 228.615	-0.2831	ppb	0.2705	95.6	-2.6821
Cr 267.716	-0.0373	ppb	0.1027	275.7	43.2536
Cu 324.754	0.0292	ppb	0.0276	94.7	246.380
Fe 271.441	228.716	ppb	2.6602	1.2	419.792
K 766.491	1271.10	ppb	3.8534	0.3	57023.9
Mg 279.078	1546.07	ppb	3.6609	0.2	4472.47
Mn 257.610	7.4420	ppb	0.0213	0.3	2012.74
Mo 202.032	-0.3964	ppb	0.3392	85.6	5.9189
Na 330.237	6050.54	ppb	180.960	3.0	330.160
Ni 231.604	0.4610	ppb	0.6982	151.5	-3.4065
Pb 220.353	0.8606	ppb	1.0846	126.0	8.8228
Sb 206.834	0.9011	ppb	1.4889	165.2	-2.8428
Se 196.026	-2.2730	ppb	4.2619	187.5	1.2081
Sn 189.925	-1.4340	ppb	1.1833	82.5	-5.7830
Sr 216.596	133.747	ppb	0.3094	0.2	1918.93
Ti 334.941	-0.0626	ppb	0.0251	40.1	6.3465
Tl 190.794	0.5155	ppb	1.4332	278.0	-6.6349
V 292.401	-0.2498	ppb	0.1413	56.6	-19.9549
Zn 206.200	3.1491	ppb	0.5330	16.9	5.1424

680-106741-j-3-a (Samp) **11/5/2014, 12:04:48 AM** **Rack 2, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2028	-0.0344u	-0.1924u
Al 308.215	2.5416	2.5736	1.9046
As 188.980	-3.8401u	-2.0816u	0.4061
B 249.678	5.3606	5.0795	5.7551
Ba 389.178	14.9344	15.4660	15.4294
Be 313.042	-0.0648u	-0.0613u	-0.0598u
Ca 370.602	60311	60208	60005
Cd 226.502	-0.1300	-0.2841u	-0.2417u
Co 228.615	-0.3639u	-0.3662u	-0.5585u
Cr 267.716	-0.1246u	0.0719	-0.0339u
Cu 324.754	0.6891	0.4725	0.8541
Fe 271.441	1404.00	1405.41	1402.39
K 766.491	1313.99	1313.50	1313.73
Mg 279.078	1371.26	1374.14	1370.94
Mn 257.610	24.5319	24.4282	24.4977
Mo 202.032	-0.6123u	-0.2433u	-0.2963u
Na 330.237	6016.19	6031.63	5990.63

Label	Replicates Concentration		
Ni 231.604	0.2955	0.6444	-0.4231u
Pb 220.353	1.5433	1.6105	1.0903
Sb 206.834	-3.6692u	1.6265	-3.8222u
Se 196.026	0.6131	-2.1241u	-1.6560u
Sn 189.925	-0.3946u	-1.3958u	-0.6621u
Sr 216.596	153.330	153.601	152.592
Ti 334.941	-0.0996u	-0.1037u	-0.0840u
Tl 190.794	-2.5683u	-3.2898u	0.1540u
V 292.401	-0.5054u	-0.3346u	-0.2397u
Zn 206.200	3.9756	5.6039	5.0499

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0080	ppb	0.1989	2483.6	-7.8551
Al 308.215	2.3400	ppb	0.3773	16.1	518.762
As 188.980	-1.8385	ppb	2.1335	116.0	-5.6249
B 249.678	5.3984	ppb	0.3394	6.3	214.717
Ba 389.178	15.2766	ppb	0.2969	1.9	311.883
Be 313.042	-0.0620	ppb	0.0026	4.2	-327.599
Ca 370.602	60175	ppb	155.6	0.3	180827
Cd 226.502	-0.2186	ppb	0.0796	36.4	22.2257
Co 228.615	-0.4295	ppb	0.1117	26.0	-4.5036
Cr 267.716	-0.0289	ppb	0.0983	340.5	44.4795
Cu 324.754	0.6719	ppb	0.1914	28.5	297.424
Fe 271.441	1403.93	ppb	1.5132	0.1	2493.30
K 766.491	1313.74	ppb	0.2475	0.0	58928.0
Mg 279.078	1372.11	ppb	1.7640	0.1	3971.06
Mn 257.610	24.4859	ppb	0.0528	0.2	6368.98
Mo 202.032	-0.3839	ppb	0.1996	52.0	5.9526
Na 330.237	6012.82	ppb	20.7078	0.3	327.990
Ni 231.604	0.1723	ppb	0.5443	316.0	-4.2761
Pb 220.353	1.4147	ppb	0.2829	20.0	9.8655
Sb 206.834	-1.9550	ppb	3.1026	158.7	-7.2085
Se 196.026	-1.0557	ppb	1.4640	138.7	1.8096
Sn 189.925	-0.8175	ppb	0.5184	63.4	-5.2803
Sr 216.596	153.174	ppb	0.5224	0.3	2194.53
Ti 334.941	-0.0958	ppb	0.0104	10.8	-5.0883
Tl 190.794	-1.9013	ppb	1.8162	95.5	-9.6469
V 292.401	-0.3599	ppb	0.1346	37.4	-22.6476
Zn 206.200	4.8765	ppb	0.8279	17.0	7.1847

680-106741-j-4-a (Samp) **11/5/2014, 12:09:04 AM** **Rack 2, Tube 20**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3678u	-0.0732u	-0.2298u
Al 308.215	7.8393	8.3757	8.4975
As 188.980	-0.7999u	-6.4996u	-1.3845u
B 249.678	20.1117	19.9060	20.1986
Ba 389.178	4.5560	4.9011	3.6141
Be 313.042	-0.0670u	-0.0651u	-0.0685u
Ca 370.602	106025	106085	106577
Cd 226.502	-0.0360	-0.1063	-0.1548
Co 228.615	-0.3355u	-0.4361u	0.0834
Cr 267.716	0.8258	0.5754	0.4936

Label	Replicates Concentration		
Cu 324.754	8.8744	8.7873	9.3617
Fe 271.441	4201.10	4185.72	4200.05
K 766.491	1647.38	1641.45	1652.41
Mg 279.078	2538.47	2536.20	2542.81
Mn 257.610	59.1619	59.1328	59.2673
Mo 202.032	-0.5721u	-0.7113u	-0.2101u
Na 330.237	14561.9	14453.1	14581.3
Ni 231.604	0.0649	-1.2706u	0.1489
Pb 220.353	-2.4363u	1.4119	1.1307
Sb 206.834	0.9949	0.7698	-2.2396u
Se 196.026	0.4508	-5.4351u	5.1785
Sn 189.925	-2.2968u	-1.1257u	-1.3237u
Sr 216.596	259.629	259.909	260.903
Ti 334.941	0.3675	0.3014	0.3783
Tl 190.794	-1.9230u	0.5475	-2.5457u
V 292.401	-0.3479u	-0.2621u	-0.2975u
Zn 206.200	11.9139	11.2374	11.0667

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2236	ppb	0.1474	65.9	-31.1546
Al 308.215	8.2375	ppb	0.3502	4.3	567.598
As 188.980	-2.8946	ppb	3.1356	108.3	-6.3304
B 249.678	20.0721	ppb	0.1503	0.7	461.255
Ba 389.178	4.3571	ppb	0.6662	15.3	43.6774
Be 313.042	-0.0669	ppb	0.0017	2.6	-320.993
Ca 370.602	106229	ppb	302.8	0.3	319170
Cd 226.502	-0.0990	ppb	0.0597	60.3	40.7404
Co 228.615	-0.2294	ppb	0.2755	120.1	-1.6556
Cr 267.716	0.6316	ppb	0.1730	27.4	86.1627
Cu 324.754	9.0078	ppb	0.3096	3.4	953.674
Fe 271.441	4195.63	ppb	8.5923	0.2	7418.91
K 766.491	1647.08	ppb	5.4871	0.3	73812.6
Mg 279.078	2539.16	ppb	3.3601	0.1	7331.62
Mn 257.610	59.1873	ppb	0.0708	0.1	15254.0
Mo 202.032	-0.4979	ppb	0.2587	52.0	4.9254
Na 330.237	14532.1	ppb	69.0600	0.5	745.125
Ni 231.604	-0.3523	ppb	0.7964	226.1	-5.7946
Pb 220.353	0.0354	ppb	2.1452	6060.8	7.7040
Sb 206.834	-0.1583	ppb	1.8060	1140.9	-4.3263
Se 196.026	0.0647	ppb	5.3173	8215.4	2.3918
Sn 189.925	-1.5820	ppb	0.6268	39.6	-5.9008
Sr 216.596	260.147	ppb	0.6696	0.3	3725.70
Ti 334.941	0.3490	ppb	0.0416	11.9	147.612
Tl 190.794	-1.3071	ppb	1.6360	125.2	-9.3307
V 292.401	-0.3025	ppb	0.0431	14.2	-19.9468
Zn 206.200	11.4060	ppb	0.4481	3.9	14.9873

680-106741-j-5-a (Samp) **11/5/2014, 12:13:21 AM** **Rack 2, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0777u	0.0290u	-0.0645u
Al 308.215	1.7141	3.1609	2.6422
As 188.980	-2.5670u	-5.8327u	-2.3696u

Label	Replicates Concentration		
B 249.678	16.0390	16.5431	16.9298
Ba 389.178	4.4694	4.7359	4.4928
Be 313.042	-0.0697u	-0.0695u	-0.0725u
Ca 370.602	102817	102161	102446
Cd 226.502	-0.0217	-0.1855	-0.0685
Co 228.615	-0.2967u	-0.5860u	-0.5129u
Cr 267.716	-0.1089u	-0.0709u	0.0098
Cu 324.754	0.0785	0.0790	0.2593
Fe 271.441	3258.90	3255.82	3267.83
K 766.491	1942.56	1942.67	1944.60
Mg 279.078	2642.76	2627.31	2636.01
Mn 257.610	44.6562	44.5961	44.6979
Mo 202.032	-0.7801u	-0.1757u	-0.1836u
Na 330.237	12420.6	12441.5	12427.0
Ni 231.604	0.4203	0.5501	0.7183
Pb 220.353	0.8622	-0.4561u	0.6858
Sb 206.834	-4.2764u	-1.2682u	-1.9641u
Se 196.026	1.3170	1.8283	3.5389
Sn 189.925	0.1888	-1.2900u	-1.0342u
Sr 216.596	254.936	253.839	254.413
Ti 334.941	-0.0406u	-0.0364u	-0.0065
Tl 190.794	-1.0374u	2.2672	-1.3793u
V 292.401	-0.5011u	-0.5635u	-0.5848u
Zn 206.200	4.4086	5.3342	4.7564

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0141	ppb	0.0723	514.0	-9.8795
Al 308.215	2.5058	ppb	0.7330	29.3	523.456
As 188.980	-3.5897	ppb	1.9450	54.2	-6.7771
B 249.678	16.5039	ppb	0.4467	2.7	401.902
Ba 389.178	4.5660	ppb	0.1475	3.2	48.4537
Be 313.042	-0.0706	ppb	0.0017	2.4	-329.974
Ca 370.602	102475	ppb	329.0	0.3	307902
Cd 226.502	-0.0919	ppb	0.0844	91.8	36.8261
Co 228.615	-0.4652	ppb	0.1505	32.3	-4.8260
Cr 267.716	-0.0567	ppb	0.0606	106.9	44.0424
Cu 324.754	0.1389	ppb	0.1042	75.0	256.405
Fe 271.441	3260.85	ppb	6.2393	0.2	5769.60
K 766.491	1943.28	ppb	1.1445	0.1	87038.6
Mg 279.078	2635.36	ppb	7.7459	0.3	7609.02
Mn 257.610	44.6501	ppb	0.0512	0.1	11538.2
Mo 202.032	-0.3798	ppb	0.3467	91.3	5.8860
Na 330.237	12429.7	ppb	10.7218	0.1	642.366
Ni 231.604	0.5629	ppb	0.1494	26.5	-2.7776
Pb 220.353	0.3640	ppb	0.7156	196.6	8.1973
Sb 206.834	-2.5029	ppb	1.5748	62.9	-7.9900
Se 196.026	2.2281	ppb	1.1637	52.2	3.4074
Sn 189.925	-0.7118	ppb	0.7903	111.0	-5.1918
Sr 216.596	254.396	ppb	0.5488	0.2	3641.58
Ti 334.941	-0.0278	ppb	0.0186	66.8	20.1717
Tl 190.794	-0.0498	ppb	2.0138	4040.8	-7.7208
V 292.401	-0.5498	ppb	0.0435	7.9	-27.4211
Zn 206.200	4.8330	ppb	0.4675	9.7	7.0363

680-106741-j-6-a (Samp) **11/5/2014, 12:17:37 AM** **Rack 2, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2025u	-0.0091u	-0.4276u
Al 308.215	2.8498	2.2544	1.5745
As 188.980	-0.8247u	-0.0359u	-5.3372u
B 249.678	8.3391	8.0811	7.8967
Ba 389.178	1.0193	0.7086	0.8271
Be 313.042	-0.0652u	-0.0607u	-0.0626u
Ca 370.602	72964	72462	72613
Cd 226.502	-0.1402u	-0.2120u	-0.0430
Co 228.615	-0.3368u	0.0205	-0.4184u
Cr 267.716	0.0478	-0.0947u	-0.1370u
Cu 324.754	0.0700	0.2770	0.3282
Fe 271.441	1345.21	1337.52	1341.89
K 766.491	1803.17	1798.68	1794.19
Mg 279.078	1637.34	1636.67	1629.15
Mn 257.610	44.8588	44.9042	44.9594
Mo 202.032	-0.5566u	-0.2414u	-0.4048u
Na 330.237	7893.66	8043.31	7884.60
Ni 231.604	0.1149	0.1389	1.2066
Pb 220.353	-0.7538u	2.0220	0.0103
Sb 206.834	1.3915	1.0413	-2.1560u
Se 196.026	4.2201	0.2613	-3.8041u
Sn 189.925	-2.5909u	-1.2198u	-2.5141u
Sr 216.596	205.024	204.929	205.358
Ti 334.941	-0.0606u	-0.1001u	-0.0794u
Tl 190.794	-0.1564u	0.6176	0.7428
V 292.401	-0.1323u	-0.4764u	0.0146
Zn 206.200	3.4395	3.2562	3.6748

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2131	ppb	0.2095	98.3	-27.7346
Al 308.215	2.2262	ppb	0.6381	28.7	517.824
As 188.980	-2.0659	ppb	2.8603	138.5	-5.7726
B 249.678	8.1056	ppb	0.2222	2.7	261.586
Ba 389.178	0.8517	ppb	0.1568	18.4	-46.7121
Be 313.042	-0.0628	ppb	0.0022	3.6	-324.742
Ca 370.602	72679	ppb	257.5	0.4	218400
Cd 226.502	-0.1317	ppb	0.0848	64.4	26.1734
Co 228.615	-0.2449	ppb	0.2334	95.3	-2.0940
Cr 267.716	-0.0613	ppb	0.0968	158.0	42.6418
Cu 324.754	0.2251	ppb	0.1367	60.8	262.283
Fe 271.441	1341.54	ppb	3.8574	0.3	2383.25
K 766.491	1798.68	ppb	4.4896	0.2	80581.9
Mg 279.078	1634.38	ppb	4.5478	0.3	4726.01
Mn 257.610	44.9075	ppb	0.0504	0.1	11587.7
Mo 202.032	-0.4009	ppb	0.1576	39.3	5.8247
Na 330.237	7940.52	ppb	89.1317	1.1	422.615
Ni 231.604	0.4868	ppb	0.6234	128.1	-3.2153
Pb 220.353	0.4262	ppb	1.4339	336.5	8.1648
Sb 206.834	0.0922	ppb	1.9549	2119.4	-4.0510
Se 196.026	0.2257	ppb	4.0122	1777.4	2.4250
Sn 189.925	-2.1083	ppb	0.7704	36.5	-6.3322
Sr 216.596	205.103	ppb	0.2253	0.1	2931.56

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	-0.0800	ppb	0.0197	24.7	0.5961
Tl 190.794	0.4013	ppb	0.4870	121.3	-6.9095
V 292.401	-0.1980	ppb	0.2520	127.2	-18.0225
Zn 206.200	3.4568	ppb	0.2099	6.1	5.4597

680-106741-j-7-a (Samp) **11/5/2014, 12:21:54 AM** **Rack 2, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0926u	-0.3628u	-0.1640u
Al 308.215	2.5625	2.7292	2.0706
As 188.980	2.3178	2.2841	-2.1279u
B 249.678	4.8316	5.7444	5.3401
Ba 389.178	22.3192	22.3557	22.6650
Be 313.042	-0.0672u	-0.0677u	-0.0645u
Ca 370.602	82508	82794	82191
Cd 226.502	-0.1052	-0.2239u	-0.1461u
Co 228.615	-1.0040u	-0.0162u	-0.5651u
Cr 267.716	-0.0602u	-0.2246u	-0.0398u
Cu 324.754	0.4235	0.1844	0.4218
Fe 271.441	1325.72	1327.05	1318.41
K 766.491	1317.26	1314.48	1313.14
Mg 279.078	1779.69	1783.41	1768.51
Mn 257.610	19.0438	18.9919	18.8889
Mo 202.032	0.1010	-0.2470u	-0.2905u
Na 330.237	6731.26	6640.88	6632.16
Ni 231.604	0.2375	0.4095	0.5848
Pb 220.353	0.5332	-1.2475u	0.1334
Sb 206.834	0.7219	-1.1067u	-1.0069u
Se 196.026	2.8319	-3.7337u	-4.2594u
Sn 189.925	-2.4303u	-2.5249u	-0.1978u
Sr 216.596	197.170	196.944	195.847
Ti 334.941	-0.0530u	-0.0660u	-0.0590u
Tl 190.794	-0.6319u	-3.8720u	-0.5323u
V 292.401	-0.2848u	-0.1937u	-0.4105u
Zn 206.200	3.3875	1.3280	1.8126

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2065	ppb	0.1400	67.8	-26.9885
Al 308.215	2.4541	ppb	0.3424	14.0	519.481
As 188.980	0.8247	ppb	2.5571	310.1	-3.8903
B 249.678	5.3054	ppb	0.4574	8.6	213.321
Ba 389.178	22.4466	ppb	0.1900	0.8	490.890
Be 313.042	-0.0665	ppb	0.0017	2.6	-328.422
Ca 370.602	82498	ppb	301.9	0.4	247901
Cd 226.502	-0.1584	ppb	0.0603	38.0	24.8057
Co 228.615	-0.5284	ppb	0.4949	93.7	-5.8101
Cr 267.716	-0.1082	ppb	0.1014	93.7	39.6382
Cu 324.754	0.3433	ppb	0.1375	40.1	271.577
Fe 271.441	1323.72	ppb	4.6532	0.4	2351.76
K 766.491	1314.96	ppb	2.1016	0.2	58982.4
Mg 279.078	1777.21	ppb	7.7526	0.4	5137.93
Mn 257.610	18.9749	ppb	0.0788	0.4	4964.94
Mo 202.032	-0.1455	ppb	0.2145	147.5	7.7958

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	6668.10	ppb	54.8702	0.8	360.215
Ni 231.604	0.4106	ppb	0.1736	42.3	-3.4745
Pb 220.353	-0.1937	ppb	0.9343	482.5	7.0910
Sb 206.834	-0.4639	ppb	1.0281	221.6	-4.9168
Se 196.026	-1.7204	ppb	3.9511	229.7	1.4900
Sn 189.925	-1.7177	ppb	1.3171	76.7	-6.0142
Sr 216.596	196.654	ppb	0.7073	0.4	2816.69
Ti 334.941	-0.0593	ppb	0.0065	10.9	8.0261
Tl 190.794	-1.6787	ppb	1.9001	113.2	-9.3777
V 292.401	-0.2963	ppb	0.1088	36.7	-20.8947
Zn 206.200	2.1761	ppb	1.0768	49.5	3.9017

680-106741-j-7-b ms (Samp) **11/5/2014, 12:26:12 AM** **Rack 2, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	22.1087	22.0719	21.8647
Al 308.215	2045.37	2039.27	2044.66
As 188.980	37.0886	38.0190	38.2832
B 249.678	86.1242	86.5035	87.3481
Ba 389.178	63.0249	62.8335	63.0113
Be 313.042	20.6529	20.5492	20.6009
Ca 370.602	85813	85126	85057
Cd 226.502	20.5020	20.5897	20.5540
Co 228.615	21.1174	20.1304	20.5838
Cr 267.716	42.2378	41.9633	42.1211
Cu 324.754	42.9452	42.9535	43.1959
Fe 271.441	3398.77	3386.19	3398.09
K 766.491	3640.45	3640.86	3627.51
Mg 279.078	3803.26	3779.53	3801.00
Mn 257.610	233.084	232.319	232.762
Mo 202.032	39.2574	38.8017	39.4273
Na 330.237	8766.92	8700.22	8612.55
Ni 231.604	40.7649	39.8989	41.5948
Pb 220.353	205.055	207.241	210.191
Sb 206.834	18.8022	19.2851	19.1838
Se 196.026	42.4564	36.0265	41.2581
Sn 189.925	81.8192	80.7416	77.9487
Sr 216.596	239.846	238.069	239.436
Ti 334.941	41.0348	40.9582	41.0057
Tl 190.794	14.0861	13.8459	16.0376
V 292.401	41.0235	41.1253	40.8705
Zn 206.200	44.6643	42.6769	41.3955

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.0151	ppb	0.1315	0.6	1931.46
Al 308.215	2043.10	ppb	3.3340	0.2	15622.8
As 188.980	37.7969	ppb	0.6275	1.7	20.1806
B 249.678	86.6586	ppb	0.6265	0.7	1612.52
Ba 389.178	62.9566	ppb	0.1068	0.2	1503.70
Be 313.042	20.6010	ppb	0.0518	0.3	42407.5
Ca 370.602	85332	ppb	418.1	0.5	256415
Cd 226.502	20.5486	ppb	0.0441	0.2	1043.76
Co 228.615	20.6105	ppb	0.4940	2.4	270.358

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	42.1074	ppb	0.1378	0.3	2586.42
Cu 324.754	43.0315	ppb	0.1424	0.3	3627.68
Fe 271.441	3394.35	ppb	7.0771	0.2	6008.50
K 766.491	3636.27	ppb	7.5924	0.2	162636
Mg 279.078	3794.60	ppb	13.0926	0.3	10942.9
Mn 257.610	232.722	ppb	0.3838	0.2	59589.6
Mo 202.032	39.1621	ppb	0.3235	0.8	310.790
Na 330.237	8693.23	ppb	77.4247	0.9	457.948
Ni 231.604	40.7529	ppb	0.8480	2.1	133.501
Pb 220.353	207.495	ppb	2.5774	1.2	364.533
Sb 206.834	19.0903	ppb	0.2547	1.3	25.1635
Se 196.026	39.9137	ppb	3.4193	8.6	21.4371
Sn 189.925	80.1698	ppb	1.9976	2.5	60.7647
Sr 216.596	239.117	ppb	0.9308	0.4	3417.30
Ti 334.941	40.9996	ppb	0.0387	0.1	13925.5
Tl 190.794	14.6566	ppb	1.2021	8.2	9.7075
V 292.401	41.0065	ppb	0.1283	0.3	1160.65
Zn 206.200	42.9122	ppb	1.6471	3.8	53.2390

Cont Calib Verif (CCV) **11/5/2014, 12:30:28 AM** **Rack 2, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	507.330	507.068	505.223
Al 308.215	4830.69	4859.49	4833.21
As 188.980	491.261	489.159	486.242
B 249.678	484.733	489.102	488.436
Ba 389.178	4946.81	4964.03	4934.93
Be 313.042	494.465	495.176	493.007
Ca 370.602	4911	4939	4927
Cd 226.502	496.749	498.772	496.652
Co 228.615	501.491	502.552	499.196
Cr 267.716	5062.42	5087.75	5056.42
Cu 324.754	5089.79	5090.51	5052.86
Fe 271.441	4899.13	4925.10	4896.70
K 766.491	10286.9	10323.3	10297.7
Mg 279.078	4882.97	4908.08	4879.90
Mn 257.610	5022.49	5043.47	5018.31
Mo 202.032	488.950	493.055	488.947
Na 330.237	7238.88	7360.26	7283.23
Ni 231.604	2474.31	2502.46	2472.34
Pb 220.353	497.066	505.568	493.224
Sb 206.834	951.983	952.147	957.375
Se 196.026	4941.45	4969.33	4935.06
Sn 189.925	4984.33	5001.27	4974.57
Sr 216.596	2452.53	2466.65	2450.41
Ti 334.941	490.496	492.109	489.864
Tl 190.794	5025.59	5045.03	5020.52
V 292.401	4899.82	4917.19	4898.59
Zn 206.200	2479.63	2494.72	2482.96

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	506.541	ppb	1.1484	0.2	44608.2	101.30812
Al 308.215	4841.13	ppb	15.9478	0.3	36877.3	96.82258

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	488.887	ppb	2.5202	0.5	313.800	97.77745
B 249.678	487.424	ppb	2.3536	0.5	8539.05	97.48476
Ba 389.178	4948.59	ppb	14.6300	0.3	123099	98.97181
Be 313.042	494.216	ppb	1.1057	0.2	1022012	98.84325
Ca 370.602	4926	ppb	14.19	0.3	15182	98.51018
Cd 226.502	497.391	ppb	1.1972	0.2	24297.5	99.47820
Co 228.615	501.080	ppb	1.7156	0.3	6554.30	100.21591
Cr 267.716	5068.86	ppb	16.6288	0.3	305603	101.37727
Cu 324.754	5077.72	ppb	21.5337	0.4	399156	101.55444
Fe 271.441	4906.98	ppb	15.7423	0.3	8798.36	98.13953
K 766.491	10302.6	ppb	18.7127	0.2	460309	103.02646
Mg 279.078	4890.32	ppb	15.4616	0.3	13992.7	97.80635
Mn 257.610	5028.09	ppb	13.4824	0.3	1284524	100.56181
Mo 202.032	490.318	ppb	2.3708	0.5	3784.18	98.06351
Na 330.237	7294.12	ppb	61.4198	0.8	326.202	97.25494
Ni 231.604	2483.04	ppb	16.8521	0.7	8416.42	99.32146
Pb 220.353	498.619	ppb	6.3167	1.3	869.958	99.72388
Sb 206.834	953.835	ppb	3.0671	0.3	1523.84	95.38350
Se 196.026	4948.61	ppb	18.2221	0.4	2364.93	98.97228
Sn 189.925	4986.72	ppb	13.5118	0.3	4061.99	99.73442
Sr 216.596	2456.53	ppb	8.8279	0.4	34538.6	98.26134
Ti 334.941	490.823	ppb	1.1576	0.2	166355	98.16461
Tl 190.794	5030.38	ppb	12.9356	0.3	5937.64	100.60764
V 292.401	4905.20	ppb	10.4035	0.2	140879	98.10400
Zn 206.200	2485.77	ppb	7.9301	0.3	3009.52	99.43088

Cont Calib Blank (CCB) **11/5/2014, 12:34:44 AM** **Rack 2, Tube 26**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0633	-0.2386u	0.0248
Al 308.215	0.8926	-0.2616u	-0.3740u
As 188.980	-6.1506u	-3.9189u	-0.0605u
B 249.678	2.0404	0.9912	0.5761
Ba 389.178	0.3775	0.1897	0.4258
Be 313.042	-0.0238u	-0.0215u	-0.0233u
Ca 370.602	4.466	3.661	4.458
Cd 226.502	-0.0488u	-0.1989u	-0.0543u
Co 228.615	-0.2255u	-0.1704u	-0.1978u
Cr 267.716	0.0629	0.0484	-0.0417u
Cu 324.754	0.3544	0.0041	-0.2881u
Fe 271.441	-2.3929u	0.8413	2.6594
K 766.491	-0.3108u	-0.7182u	-0.8107u
Mg 279.078	2.1788	3.3142	1.2621
Mn 257.610	0.1089	0.0801	0.1078
Mo 202.032	0.0430	0.1685	-0.1370u
Na 330.237	45.7985	35.1737	-173.651u
Ni 231.604	-0.3460u	0.3015	0.5442
Pb 220.353	1.1098	1.7664	-1.2494u
Sb 206.834	5.4616	2.2484	5.3595
Se 196.026	6.4479	-1.0363u	-1.9664u
Sn 189.925	-1.3790u	0.2387	0.6719
Sr 216.596	-0.0854u	0.2446	-0.2644u
Ti 334.941	0.0142	0.0010	-0.0385u

Label	Replicates Concentration		
Tl 190.794	1.3897	0.1632	-2.0363u
V 292.401	0.1161	0.0993	0.1525
Zn 206.200	-0.4283u	-0.7506u	-0.4898u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0502	ppb	0.1643	327.4	-5.8269	-0.05019
Al 308.215	0.0857	ppb	0.7011	818.3	499.526	0.08567
As 188.980	-3.3767	ppb	3.0810	91.2	-6.6176	-3.37666
B 249.678	1.2026	ppb	0.7547	62.8	145.734	1.20257
Ba 389.178	0.3310	ppb	0.1247	37.7	-63.0282	0.33103
Be 313.042	-0.0229	ppb	0.0012	5.4	-269.166	-0.02285
Ca 370.602	4.195	ppb	0.4623	11.0	50.18	4.19506
Cd 226.502	-0.1007	ppb	0.0851	84.5	21.6199	-0.10065
Co 228.615	-0.1979	ppb	0.0276	13.9	-1.5994	-0.19790
Cr 267.716	0.0232	ppb	0.0567	244.2	46.6002	0.02321
Cu 324.754	0.0235	ppb	0.3217	1371.5	245.844	0.02346
Fe 271.441	0.3692	ppb	2.5590	693.0	16.9005	0.36925
K 766.491	-0.6132	ppb	0.2659	43.4	238.302	-0.61322
Mg 279.078	2.2517	ppb	1.0280	45.7	26.1329	2.25167
Mn 257.610	0.0989	ppb	0.0163	16.5	121.459	0.09894
Mo 202.032	0.0248	ppb	0.1536	618.4	9.1795	0.02483
Na 330.237	-30.8929	ppb	123.746	400.6	31.9289	-30.89290
Ni 231.604	0.1666	ppb	0.4602	276.2	-4.4262	0.16659
Pb 220.353	0.5423	ppb	1.5860	292.5	8.2565	0.54228
Sb 206.834	4.3565	ppb	1.8264	41.9	2.4766	4.35648
Se 196.026	1.1484	ppb	4.6130	401.7	2.8358	1.14841
Sn 189.925	-0.1561	ppb	1.0810	692.3	-4.7431	-0.15613
Sr 216.596	-0.0351	ppb	0.2582	736.1	7.8322	-0.03507
Ti 334.941	-0.0078	ppb	0.0274	351.1	22.2951	-0.00781
Tl 190.794	-0.1611	ppb	1.7359	1077.3	-7.4059	-0.16113
V 292.401	0.1226	ppb	0.0272	22.2	-9.3672	0.12261
Zn 206.200	-0.5562	ppb	0.1711	30.8	0.6431	-0.55620

680-106741-j-7-c msd (Samp) **11/5/2014, 12:39:00 AM** **Rack 2, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.6045	21.7733	21.9146
Al 308.215	2005.38	2007.82	2002.22
As 188.980	36.7377	39.3655	43.1430
B 249.678	86.8206	87.1420	86.8902
Ba 389.178	61.7938	62.4942	62.1558
Be 313.042	20.2436	20.2662	20.1765
Ca 370.602	84784	84894	84754
Cd 226.502	20.0726	20.2505	19.9834
Co 228.615	19.6724	20.2297	20.1488
Cr 267.716	41.2012	41.3936	41.1396
Cu 324.754	42.5717	42.1453	42.4203
Fe 271.441	3353.54	3360.85	3350.83
K 766.491	3594.08	3586.95	3589.61
Mg 279.078	3753.94	3761.62	3754.95
Mn 257.610	228.593	229.278	228.418
Mo 202.032	39.1091	39.4828	39.2654
Na 330.237	8549.68	8670.10	8633.47

Label	Replicates Concentration		
Ni 231.604	39.6964	40.3303	39.7599
Pb 220.353	201.271	202.192	198.777
Sb 206.834	18.4003	18.9578	21.5548
Se 196.026	39.6861	37.6221	39.9988
Sn 189.925	77.7647	75.5829	74.8462
Sr 216.596	237.640	238.383	237.235
Ti 334.941	40.3288	40.2855	40.1309
Tl 190.794	12.4579	12.4879	14.3143
V 292.401	40.3352	40.2850	40.5009
Zn 206.200	44.8770	43.3285	43.2692

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.7641	ppb	0.1552	0.7	1909.38
Al 308.215	2005.14	ppb	2.8074	0.1	15341.9
As 188.980	39.7487	ppb	3.2198	8.1	21.4514
B 249.678	86.9509	ppb	0.1691	0.2	1617.65
Ba 389.178	62.1479	ppb	0.3503	0.6	1483.50
Be 313.042	20.2288	ppb	0.0467	0.2	41637.6
Ca 370.602	84811	ppb	73.86	0.1	254850
Cd 226.502	20.1022	ppb	0.1360	0.7	1021.82
Co 228.615	20.0170	ppb	0.3011	1.5	262.582
Cr 267.716	41.2448	ppb	0.1325	0.3	2534.39
Cu 324.754	42.3791	ppb	0.2162	0.5	3576.41
Fe 271.441	3355.07	ppb	5.1848	0.2	5939.12
K 766.491	3590.21	ppb	3.6013	0.1	160579
Mg 279.078	3756.83	ppb	4.1728	0.1	10834.3
Mn 257.610	228.763	ppb	0.4542	0.2	58577.9
Mo 202.032	39.2858	ppb	0.1877	0.5	311.746
Na 330.237	8617.75	ppb	61.7305	0.7	454.224
Ni 231.604	39.9289	ppb	0.3491	0.9	130.704
Pb 220.353	200.747	ppb	1.7669	0.9	352.918
Sb 206.834	19.6376	ppb	1.6836	8.6	25.9962
Se 196.026	39.1024	ppb	1.2914	3.3	21.0484
Sn 189.925	76.0646	ppb	1.5177	2.0	57.4169
Sr 216.596	237.753	ppb	0.5820	0.2	3397.86
Ti 334.941	40.2484	ppb	0.1041	0.3	13670.9
Tl 190.794	13.0867	ppb	1.0633	8.1	7.8558
V 292.401	40.3737	ppb	0.1130	0.3	1142.45
Zn 206.200	43.8249	ppb	0.9116	2.1	54.3547

CRI (Samp) **11/5/2014, 12:43:16 AM** **Rack 2, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.4307	10.5079	10.2398
Al 308.215	199.682	198.428	199.288
As 188.980	18.7771	18.2304	18.8572
B 249.678	95.9823	95.2714	96.4169
Ba 389.178	10.3367	10.3401	10.5947
Be 313.042	4.0490	4.0403	4.0659
Ca 370.602	518.8	517.0	521.5
Cd 226.502	4.8541	4.8842	5.0096
Co 228.615	9.9274	9.6020	10.1672
Cr 267.716	10.1663	10.1825	10.2998

Label	Replicates Concentration		
Cu 324.754	20.9789	20.8742	20.9573
Fe 271.441	47.5076	56.4322	54.5647
K 766.491	1073.23	1066.60	1073.06
Mg 279.078	504.527	502.147	502.180
Mn 257.610	11.0039	10.9214	11.0645
Mo 202.032	9.5956	9.8807	9.6424
Na 330.237	901.729	988.758	946.895
Ni 231.604	41.1001	40.9299	41.1837
Pb 220.353	10.4692	10.3029	11.5268
Sb 206.834	21.1031	19.7537	18.7285
Se 196.026	27.7923	17.2873	19.5154
Sn 189.925	50.1114	49.3046	46.8199
Sr 216.596	10.0031	9.7166	9.5242
Ti 334.941	9.8724	9.8383	9.8912
Tl 190.794	23.8515	25.6048	27.5131
V 292.401	10.5716	10.7390	10.2672
Zn 206.200	19.9655	19.1796	20.4550

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.3928	ppb	0.1381	1.3	914.577
Al 308.215	199.133	ppb	0.6411	0.3	1973.45
As 188.980	18.6216	ppb	0.3411	1.8	7.7055
B 249.678	95.8902	ppb	0.5783	0.6	1779.80
Ba 389.178	10.4238	ppb	0.1480	1.4	189.024
Be 313.042	4.0517	ppb	0.0130	0.3	8155.91
Ca 370.602	519.1	ppb	2.256	0.4	1602
Cd 226.502	4.9159	ppb	0.0825	1.7	266.447
Co 228.615	9.8988	ppb	0.2837	2.9	130.255
Cr 267.716	10.2162	ppb	0.0729	0.7	661.068
Cu 324.754	20.9368	ppb	0.0553	0.3	1889.32
Fe 271.441	52.8348	ppb	4.7070	8.9	110.985
K 766.491	1070.96	ppb	3.7783	0.4	48087.3
Mg 279.078	502.951	ppb	1.3648	0.3	1467.93
Mn 257.610	10.9966	ppb	0.0718	0.7	2909.87
Mo 202.032	9.7062	ppb	0.1529	1.6	83.8300
Na 330.237	945.794	ppb	43.5249	4.6	79.2994
Ni 231.604	41.0712	ppb	0.1293	0.3	134.297
Pb 220.353	10.7663	ppb	0.6638	6.2	25.8360
Sb 206.834	19.8618	ppb	1.1910	6.0	26.3763
Se 196.026	21.5317	ppb	5.5351	25.7	12.5656
Sn 189.925	48.7453	ppb	1.7156	3.5	35.1357
Sr 216.596	9.7480	ppb	0.2410	2.5	144.526
Ti 334.941	9.8673	ppb	0.0268	0.3	3369.51
Tl 190.794	25.6565	ppb	1.8314	7.1	23.0652
V 292.401	10.5259	ppb	0.2392	2.3	288.121
Zn 206.200	19.8667	ppb	0.6434	3.2	25.4671

mb 680-356607/1-a (Samp) **11/5/2014, 12:47:31 AM** **Rack 2, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2058u	0.0010	-0.0871u
Al 308.215	7.4459	7.9661	5.8091
As 188.980	-1.4222u	-1.9193u	-4.8736u

Label	Replicates Concentration		
B 249.678	-2.5561u	-2.7314u	-2.7392u
Ba 389.178	-0.1397u	0.5101	0.5844
Be 313.042	-0.0416u	-0.0454u	-0.0418u
Ca 370.602	12.49	12.39	6.230
Cd 226.502	-0.0980u	0.0676	-0.0348u
Co 228.615	-0.4090u	-0.4290u	-0.1722u
Cr 267.716	0.0179	0.0486	0.0098
Cu 324.754	0.1446	-0.3345u	-0.1377u
Fe 271.441	8.9578	4.8288	7.5373
K 766.491	8.7839	8.6345	8.9235
Mg 279.078	4.6813	5.9096	3.9031
Mn 257.610	0.1937	0.1459	0.1436
Mo 202.032	-0.6562u	-0.1522u	-0.2946u
Na 330.237	-69.4922u	76.0583	20.0863
Ni 231.604	0.3765	0.6937	0.3447
Pb 220.353	0.2540	-0.3848u	1.5048
Sb 206.834	1.7941	-1.5274u	-1.6744u
Se 196.026	-7.2213u	3.0815	-3.0447u
Sn 189.925	5.3586	8.6859	7.6648
Sr 216.596	-0.4183u	-0.5069u	0.0462
Ti 334.941	-0.0426u	-0.0169u	-0.0276u
Tl 190.794	-0.4076u	-1.4169u	1.6944
V 292.401	0.2356	-0.1134u	0.0366
Zn 206.200	4.2843	4.7318	4.9543

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0973	ppb	0.1038	106.6	-9.9746
Al 308.215	7.0737	ppb	1.1256	15.9	551.182
As 188.980	-2.7384	ppb	1.8658	68.1	-6.2018
B 249.678	-2.6756	ppb	0.1036	3.9	78.7110
Ba 389.178	0.3182	ppb	0.3984	125.2	-63.3392
Be 313.042	-0.0429	ppb	0.0021	4.9	-310.601
Ca 370.602	10.37	ppb	3.584	34.6	68.64
Cd 226.502	-0.0217	ppb	0.0836	384.4	25.4971
Co 228.615	-0.3368	ppb	0.1428	42.4	-3.4033
Cr 267.716	0.0254	ppb	0.0205	80.5	46.7382
Cu 324.754	-0.1092	ppb	0.2408	220.6	235.403
Fe 271.441	7.1080	ppb	2.0977	29.5	28.7929
K 766.491	8.7806	ppb	0.1445	1.6	657.766
Mg 279.078	4.8313	ppb	1.0116	20.9	33.5590
Mn 257.610	0.1611	ppb	0.0283	17.5	137.392
Mo 202.032	-0.3677	ppb	0.2599	70.7	6.1521
Na 330.237	8.8841	ppb	73.4190	826.4	33.7383
Ni 231.604	0.4717	ppb	0.1930	40.9	-3.3909
Pb 220.353	0.4580	ppb	0.9612	209.9	8.1126
Sb 206.834	-0.4692	ppb	1.9615	418.0	-4.9605
Se 196.026	-2.3948	ppb	5.1820	216.4	1.1451
Sn 189.925	7.2364	ppb	1.7045	23.6	1.2855
Sr 216.596	-0.2930	ppb	0.2971	101.4	4.2130
Ti 334.941	-0.0290	ppb	0.0129	44.5	15.0994
Tl 190.794	-0.0434	ppb	1.5873	3659.3	-7.2660
V 292.401	0.0529	ppb	0.1751	330.8	-11.2774
Zn 206.200	4.6568	ppb	0.3412	7.3	6.9890

lcs 680-356607/2-a (Samp) **11/5/2014, 12:51:47 AM** **Rack 2, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.1014	52.3980	51.8562
Al 308.215	5014.57	5033.28	4984.51
As 188.980	106.286	104.877	99.8477
B 249.678	190.503	192.418	190.733
Ba 389.178	102.768	102.260	100.828
Be 313.042	51.9355	52.2199	51.7145
Ca 370.602	5083	5133	5080
Cd 226.502	52.0550	52.5391	51.5223
Co 228.615	51.7817	52.1808	51.5588
Cr 267.716	105.757	106.288	104.993
Cu 324.754	105.106	105.725	104.584
Fe 271.441	5119.11	5150.39	5115.20
K 766.491	5318.94	5342.25	5275.02
Mg 279.078	5013.75	5035.57	4991.85
Mn 257.610	536.054	538.409	533.129
Mo 202.032	101.356	102.566	101.701
Na 330.237	4776.68	4782.73	4756.60
Ni 231.604	102.488	103.339	103.518
Pb 220.353	518.377	519.151	514.843
Sb 206.834	51.6154	51.0382	49.2500
Se 196.026	104.032	113.418	105.411
Sn 189.925	206.688	209.568	208.631
Sr 216.596	101.157	102.073	100.852
Ti 334.941	103.521	104.068	102.991
Tl 190.794	40.6526	42.5476	40.1569
V 292.401	102.681	103.236	101.924
Zn 206.200	111.494	112.157	111.367

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.1186	ppb	0.2713	0.5	4592.08
Al 308.215	5010.79	ppb	24.6049	0.5	37585.5
As 188.980	103.670	ppb	3.3844	3.3	63.0753
B 249.678	191.218	ppb	1.0457	0.5	3413.14
Ba 389.178	101.952	ppb	1.0063	1.0	2477.55
Be 313.042	51.9566	ppb	0.2534	0.5	107212
Ca 370.602	5099	ppb	29.74	0.6	15356
Cd 226.502	52.0388	ppb	0.5086	1.0	2586.91
Co 228.615	51.8405	ppb	0.3151	0.6	678.153
Cr 267.716	105.680	ppb	0.6511	0.6	6420.61
Cu 324.754	105.138	ppb	0.5715	0.5	8510.06
Fe 271.441	5128.23	ppb	19.2904	0.4	9072.74
K 766.491	5312.07	ppb	34.1374	0.6	237465
Mg 279.078	5013.72	ppb	21.8609	0.4	14446.4
Mn 257.610	535.864	ppb	2.6450	0.5	137040
Mo 202.032	101.874	ppb	0.6232	0.6	794.282
Na 330.237	4772.01	ppb	13.6764	0.3	263.289
Ni 231.604	103.115	ppb	0.5504	0.5	345.109
Pb 220.353	517.457	ppb	2.2968	0.4	897.883
Sb 206.834	50.6346	ppb	1.2333	2.4	73.5873
Se 196.026	107.620	ppb	5.0682	4.7	53.8421
Sn 189.925	208.296	ppb	1.4693	0.7	165.248
Sr 216.596	101.361	ppb	0.6355	0.6	1440.93

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	103.527	ppb	0.5386	0.5	35116.6
Tl 190.794	41.1190	ppb	1.2618	3.1	40.8197
V 292.401	102.613	ppb	0.6585	0.6	2921.83
Zn 206.200	111.673	ppb	0.4244	0.4	136.635

680-106803-a-2-a (Samp) **11/5/2014, 12:56:03 AM** **Rack 2, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.6267u	-1.2719u	-2.0539u
Al 308.215	133390	133392	132939
As 188.980	329.924	330.023	325.710
B 249.678	16.3613u	15.2792u	15.6696u
Ba 389.178	1299.70	1303.25	1298.35
Be 313.042	12.2097	12.2399	12.1907
Ca 370.602	97431	97583	97286
Cd 226.502	6.0165	6.4671	6.0850
Co 228.615	89.5181	89.2623	87.7805
Cr 267.716	370.579	370.946	369.478
Cu 324.754	352.059	352.470	349.083
Fe 271.441	408707	408865	406400
K 766.491	9484.08	9485.56	9462.34
Mg 279.078	26643.0	26676.0	26575.7
Mn 257.610	9484.08	9499.95	9432.02
Mo 202.032	18.9872	19.7925	19.4671
Na 330.237	807.921u	694.342u	607.321u
Ni 231.604	122.760	123.257	125.455
Pb 220.353	934.147	941.251	928.149
Sb 206.834	-1.9105	1.0372	-1.5491
Se 196.026	13.4237	-8.7630	-10.0986
Sn 189.925	66.5795	67.7055	69.8461
Sr 216.596	284.460	285.664	284.425
Ti 334.941	1447.53	1449.49	1445.98
Tl 190.794	-5.8182u	-3.3772u	-1.8039u
V 292.401	508.405	508.768	506.340
Zn 206.200	1576.54	1580.92	1572.81

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6509	ppb	0.3916	23.7	-178.059
Al 308.215	133240	ppb	261.072	0.2	986758
As 188.980	328.552	ppb	2.4619	0.7	208.260
B 249.678	15.7700	ppb	0.5480	3.5	-579.285
Ba 389.178	1300.43	ppb	2.5345	0.2	32582.4
Be 313.042	12.2134	ppb	0.0248	0.2	25095.7
Ca 370.602	97434	ppb	148.6	0.2	288553
Cd 226.502	6.1896	ppb	0.2428	3.9	2187.60
Co 228.615	88.8536	ppb	0.9382	1.1	1228.81
Cr 267.716	370.334	ppb	0.7643	0.2	22639.4
Cu 324.754	351.204	ppb	1.8484	0.5	28020.4
Fe 271.441	407991	ppb	1380.22	0.3	719883
K 766.491	9477.33	ppb	13.0015	0.1	423456
Mg 279.078	26631.6	ppb	51.0865	0.2	76462.9
Mn 257.610	9472.02	ppb	35.5331	0.4	2421286
Mo 202.032	19.4156	ppb	0.4051	2.1	136.411

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	703.195	ppb	100.593	14.3	-73.7368
Ni 231.604	123.824	ppb	1.4343	1.2	452.940
Pb 220.353	934.516	ppb	6.5589	0.7	1644.40
Sb 206.834	-0.8075	ppb	1.6077	199.1	13.0951
Se 196.026	-1.8127	ppb	13.2119	728.9	9.4298
Sn 189.925	68.0437	ppb	1.6594	2.4	50.8722
Sr 216.596	284.850	ppb	0.7050	0.2	4625.06
Ti 334.941	1447.67	ppb	1.7612	0.1	490697
Tl 190.794	-3.6665	ppb	2.0227	55.2	-64.3310
V 292.401	507.838	ppb	1.3096	0.3	14771.0
Zn 206.200	1576.76	ppb	4.0608	0.3	1898.52

680-106803-a-2-aSD^5 (Samp) **11/5/2014, 1:00:19 AM** **Rack 2, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6106u	-0.4394u	-0.4658u
Al 308.215	26960.0	26990.9	26822.4
As 188.980	67.5680	69.0853	66.8538
B 249.678	1.2393u	1.0289u	0.5895u
Ba 389.178	272.614	272.240	270.761
Be 313.042	2.5044	2.4993	2.4945
Ca 370.602	19841	19815	19777
Cd 226.502	0.7266	0.9202	0.6994
Co 228.615	18.5998	18.4897	18.6035
Cr 267.716	77.8318	77.9732	77.6674
Cu 324.754	69.3680	70.1903	69.7521
Fe 271.441	87884.8	87995.1	87526.5
K 766.491	1740.54	1742.27	1733.28
Mg 279.078	5634.80	5647.98	5618.35
Mn 257.610	2083.03	2085.51	2074.66
Mo 202.032	4.0994	3.4806	3.7740
Na 330.237	102.365u	139.806u	-0.3757u
Ni 231.604	26.1615	25.5622	26.7570
Pb 220.353	196.868	200.200	197.673
Sb 206.834	-3.3734u	-1.7826	-1.5771
Se 196.026	-1.7614	9.6649	-2.4567
Sn 189.925	13.7012	11.5015	12.3982
Sr 216.596	60.1408	60.6150	60.5139
Ti 334.941	299.720	299.310	297.480
Tl 190.794	-2.4939u	-0.2947u	-2.0431u
V 292.401	106.514	106.929	105.510
Zn 206.200	336.372	336.764	335.371

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5053	ppb	0.0922	18.2	-52.3939
Al 308.215	26924.4	ppb	89.7402	0.3	199807
As 188.980	67.8357	ppb	1.1395	1.7	39.4636
B 249.678	0.9526	ppb	0.3315	34.8	-68.8825
Ba 389.178	271.872	ppb	0.9796	0.4	6757.05
Be 313.042	2.4994	ppb	0.0049	0.2	4959.48
Ca 370.602	19811	ppb	32.12	0.2	58645
Cd 226.502	0.7821	ppb	0.1204	15.4	464.978
Co 228.615	18.5643	ppb	0.0647	0.3	257.649

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	77.8241	ppb	0.1531	0.2	4794.85
Cu 324.754	69.7701	ppb	0.4115	0.6	5765.09
Fe 271.441	87802.2	ppb	244.976	0.3	154936
K 766.491	1738.70	ppb	4.7674	0.3	77903.5
Mg 279.078	5633.71	ppb	14.8423	0.3	16189.5
Mn 257.610	2081.07	ppb	5.6837	0.3	532040
Mo 202.032	3.7847	ppb	0.3095	8.2	33.3747
Na 330.237	80.5986	ppb	72.5816	90.1	7.0050
Ni 231.604	26.1602	ppb	0.5974	2.3	91.9087
Pb 220.353	198.247	ppb	1.7384	0.9	354.746
Sb 206.834	-2.2444	ppb	0.9832	43.8	-3.7231
Se 196.026	1.8156	ppb	6.8066	374.9	4.8880
Sn 189.925	12.5336	ppb	1.1061	8.8	5.6051
Sr 216.596	60.4232	ppb	0.2498	0.4	989.463
Ti 334.941	298.836	ppb	1.1926	0.4	101313
Tl 190.794	-1.6106	ppb	1.1616	72.1	-20.4625
V 292.401	106.318	ppb	0.7292	0.7	3083.11
Zn 206.200	336.169	ppb	0.7180	0.2	405.767

680-106803-a-2-aPDS (Samp) **11/5/2014, 1:04:35 AM** **Rack 2, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	93.8997	94.1540	92.8166
Al 308.215	135024	135127	134939
As 188.980	412.153	416.659	419.877
B 249.678	196.278	195.789	196.608
Ba 389.178	1373.40	1375.87	1372.66
Be 313.042	103.081	103.136	102.936
Ca 370.602	106802	106877	106803
Cd 226.502	94.1465	94.7145	94.0769
Co 228.615	179.572	178.429	177.647
Cr 267.716	461.768	463.227	461.179
Cu 324.754	449.743	450.906	449.358
Fe 271.441	416404	416477	415184
K 766.491	19804.6	19848.4	19817.3
Mg 279.078	35116.5	35179.1	35085.0
Mn 257.610	10336.3	10352.2	10316.7
Mo 202.032	107.984	108.102	108.262
Na 330.237	8864.13	9226.65	8887.39
Ni 231.604	211.556	211.828	213.773
Pb 220.353	1022.51	1019.26	1019.51
Sb 206.834	85.3305	87.1607	87.8591
Se 196.026	92.4280	91.9449	93.6871
Sn 189.925	150.555	153.192	150.339
Sr 216.596	371.971	371.640	371.152
Ti 334.941	1531.50	1533.63	1530.96
Tl 190.794	14.1851u	13.6254u	11.1170u
V 292.401	600.204	601.441	599.460
Zn 206.200	1671.31	1663.03	1663.92

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	93.6234	ppb	0.7102	0.8	8221.79
Al 308.215	135030	ppb	93.9804	0.1	1000028

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	416.230	ppb	3.8800	0.9	265.292
B 249.678	196.225	ppb	0.4121	0.2	2516.99
Ba 389.178	1373.98	ppb	1.6798	0.1	34431.3
Be 313.042	103.051	ppb	0.1036	0.1	212935
Ca 370.602	106827	ppb	43.01	0.0	316740
Cd 226.502	94.3126	ppb	0.3498	0.4	6520.19
Co 228.615	178.549	ppb	0.9681	0.5	2400.84
Cr 267.716	462.058	ppb	1.0545	0.2	28176.4
Cu 324.754	450.002	ppb	0.8059	0.2	35789.2
Fe 271.441	416022	ppb	726.645	0.2	734066
K 766.491	19823.4	ppb	22.5268	0.1	885440
Mg 279.078	35126.9	ppb	47.9194	0.1	100911
Mn 257.610	10335.1	ppb	17.7477	0.2	2641848
Mo 202.032	108.116	ppb	0.1392	0.1	819.963
Na 330.237	8992.73	ppb	202.922	2.3	328.663
Ni 231.604	212.386	ppb	1.2089	0.6	753.841
Pb 220.353	1020.43	ppb	1.8126	0.2	1792.83
Sb 206.834	86.7834	ppb	1.3059	1.5	148.180
Se 196.026	92.6867	ppb	0.8994	1.0	54.8415
Sn 189.925	151.362	ppb	1.5886	1.0	118.820
Sr 216.596	371.588	ppb	0.4124	0.1	5858.06
Ti 334.941	1532.03	ppb	1.4115	0.1	519302
Tl 190.794	12.9758	ppb	1.6339	12.6	-45.2482
V 292.401	600.369	ppb	1.0009	0.2	17419.3
Zn 206.200	1666.09	ppb	4.5458	0.3	2006.53

680-106803-a-2-b ms (Samp) **11/5/2014, 1:08:52 AM** **Rack 2, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.9597	51.1563	50.4146
Al 308.215	135240	135439	135944
As 188.980	366.668	372.716	379.509
B 249.678	135.787	137.082	137.577
Ba 389.178	1470.95	1471.71	1478.09
Be 313.042	59.2287	59.2609	59.4410
Ca 370.602	75866	75683	75832
Cd 226.502	50.5979	50.7713	51.0722
Co 228.615	133.308	134.841	134.701
Cr 267.716	323.091	323.787	324.477
Cu 324.754	395.651	396.016	395.450
Fe 271.441	317736	318743	320314
K 766.491	15875.4	15881.2	15906.4
Mg 279.078	21831.8	21848.3	21907.8
Mn 257.610	8142.95	8118.56	8179.55
Mo 202.032	100.611	100.674	100.907
Na 330.237	4944.67	4796.01	4883.76
Ni 231.604	222.918	224.054	220.815
Pb 220.353	1291.94	1291.44	1301.19
Sb 206.834	16.8162	13.3099	15.6636
Se 196.026	92.8017	84.2615	89.2699
Sn 189.925	241.430	241.988	246.338
Sr 216.596	412.387	412.652	414.230
Ti 334.941	918.262	918.538	923.056

Label	Replicates Concentration		
Tl 190.794	33.9407u	36.6572	36.3605
V 292.401	482.415	483.626	484.607
Zn 206.200	1320.19	1310.65	1321.39

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.8435	ppb	0.3843	0.8	4454.41
Al 308.215	135541	ppb	363.115	0.3	1003610
As 188.980	372.964	ppb	6.4239	1.7	237.749
B 249.678	136.815	ppb	0.9242	0.7	1722.87
Ba 389.178	1473.58	ppb	3.9195	0.3	36829.7
Be 313.042	59.3102	ppb	0.1144	0.2	122469
Ca 370.602	75794	ppb	97.27	0.1	224380
Cd 226.502	50.8138	ppb	0.2400	0.5	3957.35
Co 228.615	134.283	ppb	0.8477	0.6	1799.97
Cr 267.716	323.785	ppb	0.6928	0.2	19777.0
Cu 324.754	395.706	ppb	0.2871	0.1	31479.6
Fe 271.441	318931	ppb	1299.12	0.4	562754
K 766.491	15887.7	ppb	16.5042	0.1	709696
Mg 279.078	21862.6	ppb	39.9799	0.2	62755.5
Mn 257.610	8147.02	ppb	30.6989	0.4	2082475
Mo 202.032	100.731	ppb	0.1560	0.2	768.305
Na 330.237	4874.81	ppb	74.7361	1.5	160.127
Ni 231.604	222.595	ppb	1.6433	0.7	779.530
Pb 220.353	1294.86	ppb	5.4894	0.4	2257.66
Sb 206.834	15.2632	ppb	1.7871	11.7	32.7662
Se 196.026	88.7777	ppb	4.2913	4.8	51.0872
Sn 189.925	243.252	ppb	2.6871	1.1	193.754
Sr 216.596	413.090	ppb	0.9965	0.2	6294.80
Ti 334.941	919.952	ppb	2.6913	0.3	311854
Tl 190.794	35.6528	ppb	1.4901	4.2	-5.9683
V 292.401	483.549	ppb	1.0978	0.2	14015.4
Zn 206.200	1317.41	ppb	5.8869	0.4	1587.54

680-106803-a-2-c msd (Samp) **11/5/2014, 1:13:09 AM** **Rack 2, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.0128	48.9004	48.7248
Al 308.215	155065	155098	154597
As 188.980	385.673	396.089	401.774
B 249.678	145.204	144.933	143.322
Ba 389.178	1648.64	1650.83	1646.66
Be 313.042	59.7963	59.8481	59.6748
Ca 370.602	134466	135012	134680
Cd 226.502	54.9818	54.8828	54.2511
Co 228.615	123.266	124.543	123.011
Cr 267.716	432.213	434.124	432.977
Cu 324.754	432.903	431.486	435.605
Fe 271.441	341058	340522	339578
K 766.491	15844.1	15855.1	15788.7
Mg 279.078	56710.3	56777.9	56589.7
Mn 257.610	10531.1	10548.5	10514.4
Mo 202.032	104.192	103.585	103.455
Na 330.237	5273.52	5304.26	5115.17

Label	Replicates Concentration		
Ni 231.604	211.820	212.474	211.985
Pb 220.353	1763.82	1770.74	1761.98
Sb 206.834	29.0702	26.2007	30.5900
Se 196.026	89.7855	78.0540	89.5372
Sn 189.925	304.222	308.881	313.332
Sr 216.596	378.123	377.912	375.689
Ti 334.941	1061.52	1062.62	1059.61
Tl 190.794	36.6332	32.5070u	37.1067
V 292.401	518.305	520.276	518.398
Zn 206.200	1797.19	1798.23	1783.71

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.8794	ppb	0.1451	0.3	4290.89
Al 308.215	154920	ppb	279.998	0.2	1146981
As 188.980	394.512	ppb	8.1654	2.1	251.839
B 249.678	144.486	ppb	1.0174	0.7	1804.41
Ba 389.178	1648.71	ppb	2.0841	0.1	41255.1
Be 313.042	59.7731	ppb	0.0890	0.1	123449
Ca 370.602	134719	ppb	274.8	0.2	401292
Cd 226.502	54.7052	ppb	0.3964	0.7	4244.78
Co 228.615	123.607	ppb	0.8204	0.7	1665.66
Cr 267.716	433.104	ppb	0.9618	0.2	26392.1
Cu 324.754	433.331	ppb	2.0928	0.5	34445.4
Fe 271.441	340386	ppb	749.126	0.2	600607
K 766.491	15829.3	ppb	35.6108	0.2	707090
Mg 279.078	56692.6	ppb	95.3709	0.2	163013
Mn 257.610	10531.3	ppb	17.0673	0.2	2691912
Mo 202.032	103.744	ppb	0.3935	0.4	790.369
Na 330.237	5230.99	ppb	101.471	1.9	160.045
Ni 231.604	212.093	ppb	0.3399	0.2	745.937
Pb 220.353	1765.51	ppb	4.6173	0.3	3069.23
Sb 206.834	28.6203	ppb	2.2290	7.8	55.4491
Se 196.026	85.7922	ppb	6.7027	7.8	50.5321
Sn 189.925	308.812	ppb	4.5551	1.5	247.217
Sr 216.596	377.241	ppb	1.3486	0.4	5844.95
Ti 334.941	1061.25	ppb	1.5267	0.1	359810
Tl 190.794	35.4156	ppb	2.5300	7.1	-8.0106
V 292.401	518.993	ppb	1.1122	0.2	15041.1
Zn 206.200	1793.04	ppb	8.1023	0.5	2165.09

680-106803-a-1-a (Samp) **11/5/2014, 1:17:26 AM** **Rack 2, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.3269u	-1.4780u	-2.0319u
Al 308.215	160312	160729	160781
As 188.980	310.981	315.892	314.281
B 249.678	54.3779	52.7615	53.8025
Ba 389.178	4886.57	4895.16	4899.63
Be 313.042	19.3998	19.4310	19.4831
Ca 370.602	229106	229467	230133
Cd 226.502	14.3823	13.8980	14.2378
Co 228.615	157.703	153.427	156.982
Cr 267.716	285.005	284.807	285.610

Label	Replicates Concentration		
Cu 324.754	586.242	592.881	592.820
Fe 271.441	362939	361197	362839
K 766.491	15725.3	15771.5	15790.3
Mg 279.078	48289.7	48179.9	48269.2
Mn 257.610	32260.0x	32429.3x	32465.6x
Mo 202.032	35.6195	36.1397	35.4614
Na 330.237	801.577u	926.109u	845.049u
Ni 231.604	142.248	140.345	141.079
Pb 220.353	1746.78	1752.51	1751.09
Sb 206.834	7.6960	4.6836	1.5175
Se 196.026	-0.7051	-2.2206	6.6956
Sn 189.925	112.927	107.471	116.596
Sr 216.596	555.438	553.865	554.768
Ti 334.941	1627.65	1633.41	1636.37
Tl 190.794	6.7738u	5.1268u	4.9793u
V 292.401	452.551	452.614	454.374
Zn 206.200	3277.48	3260.13	3268.68

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6122b	ppb	0.3712	23.0	-53.6239
Al 308.215	160608b	ppb	256.979	0.2	1189076
As 188.980	313.718b	ppb	2.5034	0.8	199.167
B 249.678	53.6473b	ppb	0.8193	1.5	183.866
Ba 389.178	4893.79b	ppb	6.6387	0.1	122008
Be 313.042	19.4379b	ppb	0.0421	0.2	40074.9
Ca 370.602	229569b	ppb	521.1	0.2	686855
Cd 226.502	14.1727b	ppb	0.2486	1.8	2368.86
Co 228.615	156.037b	ppb	2.2889	1.5	2106.82
Cr 267.716	285.141b	ppb	0.4181	0.1	17604.5
Cu 324.754	590.648b	ppb	3.8154	0.6	46814.3
Fe 271.441	362325b	ppb	977.916	0.3	639320
K 766.491	15762.4b	ppb	33.4317	0.2	704102
Mg 279.078	48246.3b	ppb	58.3784	0.1	138205
Mn 257.610	32385.0xb	ppb	109.736	0.3	8274170
Mo 202.032	35.7402b	ppb	0.3549	1.0	264.809
Na 330.237	857.578b	ppb	63.2041	7.4	-98.6516
Ni 231.604	141.224b	ppb	0.9602	0.7	507.521
Pb 220.353	1750.12b	ppb	2.9857	0.2	3048.80
Sb 206.834	4.6324b	ppb	3.0896	66.7	18.5692
Se 196.026	1.2566b	ppb	4.7708	379.7	15.7189
Sn 189.925	112.331b	ppb	4.5918	4.1	86.9881
Sr 216.596	554.690b	ppb	0.7893	0.1	8419.77
Ti 334.941	1632.48b	ppb	4.4348	0.3	553361
Tl 190.794	5.6266b	ppb	0.9962	17.7	-34.0714
V 292.401	453.180b	ppb	1.0347	0.2	13183.5
Zn 206.200	3268.76b	ppb	8.6760	0.3	3960.97

Cont Calib Verif (CCV) **11/5/2014, 1:21:43 AM** **Rack 2, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	508.499	502.497	506.043
Al 308.215	4858.71	4839.97	4847.41
As 188.980	480.706	491.593	490.014

Label	Replicates Concentration		
B 249.678	484.673	486.306	489.534
Ba 389.178	4971.18	4949.70	4939.08
Be 313.042	492.769	490.967	491.425
Ca 370.602	4931	4914	4923
Cd 226.502	496.169	495.402	495.351
Co 228.615	500.810	498.282	498.945
Cr 267.716	5076.97	5057.70	5057.34
Cu 324.754	5092.30	5043.08	5052.10
Fe 271.441	4942.15	4933.89	4926.91
K 766.491	10362.4	10319.9	10342.4
Mg 279.078	4901.23	4873.78	4878.31
Mn 257.610	5036.26	5021.70	5017.90
Mo 202.032	490.391	488.901	487.604
Na 330.237	7414.77	7138.72	7308.67
Ni 231.604	2475.46	2458.83	2474.93
Pb 220.353	501.288	502.242	500.341
Sb 206.834	948.803	941.912	948.239
Se 196.026	4952.27	4923.63	4927.55
Sn 189.925	4967.33	4967.54	4944.18
Sr 216.596	2456.90	2452.34	2447.89
Ti 334.941	491.532	488.948	488.641
Tl 190.794	5001.68	4994.61	5013.29
V 292.401	4905.88	4874.08	4894.45
Zn 206.200	2477.67	2465.06	2469.45

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	505.680	ppb	3.0174	0.6	44531.8	101.13593
Al 308.215	4848.70	ppb	9.4405	0.2	36933.3	96.97395
As 188.980	487.438	ppb	5.8833	1.2	312.856	97.48753
B 249.678	486.838	ppb	2.4734	0.5	8528.78	97.36752
Ba 389.178	4953.32	ppb	16.3521	0.3	123217	99.06636
Be 313.042	491.720	ppb	0.9368	0.2	1016851	98.34409
Ca 370.602	4923	ppb	8.817	0.2	15173	98.45396
Cd 226.502	495.640	ppb	0.4582	0.1	24212.3	99.12807
Co 228.615	499.346	ppb	1.3107	0.3	6531.70	99.86916
Cr 267.716	5064.01	ppb	11.2300	0.2	305311	101.28012
Cu 324.754	5062.49	ppb	26.2021	0.5	397959	101.24986
Fe 271.441	4934.32	ppb	7.6304	0.2	8846.38	98.68633
K 766.491	10341.6	ppb	21.2800	0.2	462047	103.41573
Mg 279.078	4884.44	ppb	14.7166	0.3	13975.8	97.68879
Mn 257.610	5025.29	ppb	9.6918	0.2	1283807	100.50571
Mo 202.032	488.965	ppb	1.3946	0.3	3773.75	97.79303
Na 330.237	7287.39	ppb	139.254	1.9	326.146	97.16515
Ni 231.604	2469.74	ppb	9.4519	0.4	8371.32	98.78959
Pb 220.353	501.291	ppb	0.9505	0.2	874.562	100.25811
Sb 206.834	946.318	ppb	3.8260	0.4	1512.31	94.63177
Se 196.026	4934.48	ppb	15.5264	0.3	2358.19	98.68964
Sn 189.925	4959.68	ppb	13.4258	0.3	4039.94	99.19364
Sr 216.596	2452.38	ppb	4.5069	0.2	34480.5	98.09509
Ti 334.941	489.707	ppb	1.5876	0.3	165976	97.94139
Tl 190.794	5003.19	ppb	9.4325	0.2	5905.55	100.06382
V 292.401	4891.47	ppb	16.1085	0.3	140484	97.82938
Zn 206.200	2470.72	ppb	6.4031	0.3	2991.18	98.82895

Cont Calib Blank (CCB) **11/5/2014, 1:25:59 AM** **Rack 2, Tube 38**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2229u	0.2542	0.1983
Al 308.215	2.4696	1.8466	0.2172
As 188.980	-0.7619u	-0.3426u	-2.4426u
B 249.678	2.4145	1.8362	0.9006
Ba 389.178	0.0740	0.4422	0.8057
Be 313.042	-0.0295u	-0.0293u	-0.0230u
Ca 370.602	0.2193	3.230	1.477
Cd 226.502	0.0319	-0.0910u	-0.0665u
Co 228.615	0.0436	-0.1704u	-0.0411u
Cr 267.716	0.0211	-0.0097u	-0.0686u
Cu 324.754	0.2346	-0.0742u	0.0246
Fe 271.441	1.7518	4.9432	5.7748
K 766.491	0.2903	0.0266	0.2482
Mg 279.078	1.5304	-1.0046u	0.4133
Mn 257.610	0.4706	0.4589	0.4337
Mo 202.032	-0.1277u	-0.0515u	-0.3753u
Na 330.237	-65.4627u	100.823	-102.897u
Ni 231.604	0.1082	0.3709	0.2464
Pb 220.353	-1.0270u	1.0416	1.1609
Sb 206.834	4.1157	1.3215	2.9318
Se 196.026	5.2292	3.8877	6.1485
Sn 189.925	0.0717	0.2101	1.7727
Sr 216.596	-0.1116u	-0.4997u	-0.2578u
Ti 334.941	0.0742	0.0129	0.0620
Tl 190.794	-1.0659u	1.2115	1.0815
V 292.401	0.3868	0.0635	0.2431
Zn 206.200	-0.7537u	0.2532	0.7004

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0765	ppb	0.2608	340.9	5.3443	0.07650
Al 308.215	1.5111	ppb	1.1631	77.0	510.058	1.51113
As 188.980	-1.1824	ppb	1.1113	94.0	-5.1888	-1.18237
B 249.678	1.7171	ppb	0.7640	44.5	154.560	1.71711
Ba 389.178	0.4406	ppb	0.3658	83.0	-60.2999	0.44063
Be 313.042	-0.0273	ppb	0.0037	13.6	-278.293	-0.02728
Ca 370.602	1.642	ppb	1.512	92.1	42.49	1.64208
Cd 226.502	-0.0419	ppb	0.0650	155.3	24.5017	-0.04188
Co 228.615	-0.0560	ppb	0.1078	192.6	0.2622	-0.05598
Cr 267.716	-0.0191	ppb	0.0456	238.8	44.0562	-0.01908
Cu 324.754	0.0617	ppb	0.1577	255.6	248.840	0.06168
Fe 271.441	4.1566	ppb	2.1237	51.1	23.6114	4.15660
K 766.491	0.1884	ppb	0.1417	75.2	274.097	0.18840
Mg 279.078	0.3130	ppb	1.2705	405.9	20.5412	0.31301
Mn 257.610	0.4544	ppb	0.0188	4.1	212.265	0.45438
Mo 202.032	-0.1848	ppb	0.1693	91.6	7.5624	-0.18483
Na 330.237	-22.5122	ppb	108.439	481.7	32.3329	-22.51219
Ni 231.604	0.2418	ppb	0.1314	54.3	-4.1713	0.24182
Pb 220.353	0.3918	ppb	1.2302	314.0	7.9981	0.39180
Sb 206.834	2.7897	ppb	1.4025	50.3	0.0619	2.78967
Se 196.026	5.0885	ppb	1.1369	22.3	4.7160	5.08845
Sn 189.925	0.6848	ppb	0.9447	137.9	-4.0573	0.68480
Sr 216.596	-0.2897	ppb	0.1960	67.7	4.2505	-0.28970

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.0497	ppb	0.0325	65.3	41.7705	0.04968
Tl 190.794	0.4090	ppb	1.2789	312.7	-6.7321	0.40903
V 292.401	0.2311	ppb	0.1620	70.1	-6.2010	0.23113
Zn 206.200	0.0666	ppb	0.7448	1117.7	1.4013	0.06664

680-106803-a-3-a (Samp) **11/5/2014, 1:30:16 AM** **Rack 2, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.3977u	-1.4025u	-1.2407u
Al 308.215	131232	131256	131614
As 188.980	298.659	290.873	289.922
B 249.678	20.9568u	20.5352u	22.1036u
Ba 389.178	2280.02	2283.27	2287.67
Be 313.042	12.6306	12.6062	12.6170
Ca 370.602	92622	92425	92077
Cd 226.502	6.8993	6.9182	7.4894
Co 228.615	78.8478	78.0330	79.2076
Cr 267.716	266.599	266.343	266.765
Cu 324.754	325.551	325.160	326.828
Fe 271.441	334795	335124	334587
K 766.491	10544.2	10549.7	10571.3
Mg 279.078	21773.3	21789.9	21813.1
Mn 257.610	11666.5	11696.2	11705.3
Mo 202.032	19.1405	19.1147	19.6428
Na 330.237	456.894u	632.743u	508.298u
Ni 231.604	107.716	109.071	108.425
Pb 220.353	1157.10	1164.51	1158.04
Sb 206.834	1.2533	-0.2563	1.0404
Se 196.026	2.1146	-8.6275	-2.5613
Sn 189.925	221.804	222.873	219.019
Sr 216.596	415.466	414.893	415.986
Ti 334.941	1166.73	1167.00	1169.07
Tl 190.794	1.5880u	1.3781u	1.2787u
V 292.401	386.769	385.349	384.566
Zn 206.200	1725.47	1731.12	1731.60

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3470	ppb	0.0921	6.8	-131.114
Al 308.215	131367	ppb	214.062	0.2	972757
As 188.980	293.151	ppb	4.7934	1.6	185.657
B 249.678	21.1985	ppb	0.8116	3.8	-310.747
Ba 389.178	2283.65	ppb	3.8379	0.2	56997.1
Be 313.042	12.6179	ppb	0.0123	0.1	25924.3
Ca 370.602	92374	ppb	275.7	0.3	274206
Cd 226.502	7.1023	ppb	0.3354	4.7	1899.18
Co 228.615	78.6961	ppb	0.6018	0.8	1083.32
Cr 267.716	266.569	ppb	0.2129	0.1	16357.4
Cu 324.754	325.846	ppb	0.8725	0.3	25996.1
Fe 271.441	334835	ppb	270.646	0.1	590806
K 766.491	10555.0	ppb	14.3472	0.1	471579
Mg 279.078	21792.1	ppb	20.0125	0.1	62476.6
Mn 257.610	11689.3	ppb	20.2786	0.2	2987373
Mo 202.032	19.2993	ppb	0.2977	1.5	139547

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	532.645	ppb	90.4175	17.0	-67.7527
Ni 231.604	108.404	ppb	0.6777	0.6	393.841
Pb 220.353	1159.88	ppb	4.0347	0.3	2027.41
Sb 206.834	0.6792	ppb	0.8171	120.3	11.6016
Se 196.026	-3.0248	ppb	5.3860	178.1	8.3512
Sn 189.925	221.232	ppb	1.9900	0.9	175.795
Sr 216.596	415.448	ppb	0.5464	0.1	6362.34
Ti 334.941	1167.60	ppb	1.2791	0.1	395773
Tl 190.794	1.4150	ppb	0.1579	11.2	-46.7792
V 292.401	385.561	ppb	1.1167	0.3	11222.1
Zn 206.200	1729.40	ppb	3.4104	0.2	2088.46

680-106803-a-4-a (Samp) **11/5/2014, 1:34:32 AM** **Rack 2, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9120u	-0.8858u	-0.9147u
Al 308.215	119172	118994	118710
As 188.980	211.107	205.863	206.672
B 249.678	10.7467u	10.6604u	11.0596u
Ba 389.178	966.023	963.968	959.295
Be 313.042	10.4541	10.4153	10.4082
Ca 370.602	54183	54031	53933
Cd 226.502	5.7353	6.0219	5.9857
Co 228.615	91.8578	90.3329	91.3944
Cr 267.716	353.864	353.536	352.327
Cu 324.754	251.716	248.857	249.230
Fe 271.441	381095	380394	378030
K 766.491	7785.14	7763.06	7744.31
Mg 279.078	17360.0	17318.8	17268.9
Mn 257.610	7023.17	7002.05	6989.99
Mo 202.032	16.2447	17.1850	16.6008
Na 330.237	309.489u	180.767u	161.238u
Ni 231.604	112.207	110.753	109.832
Pb 220.353	798.223	811.143	789.010
Sb 206.834	-2.5610	-1.3317	-3.0771
Se 196.026	-0.4327	-4.3321	-1.9121
Sn 189.925	75.3699	72.4965	78.9558
Sr 216.596	223.360	222.104	221.787
Ti 334.941	1079.55	1077.26	1075.12
Tl 190.794	-3.4584u	-2.0523u	-0.2499u
V 292.401	509.747	509.453	508.810
Zn 206.200	1645.81	1640.72	1634.65

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9042	ppb	0.0160	1.8	-118.012
Al 308.215	118959	ppb	232.970	0.2	881079
As 188.980	207.881	ppb	2.8235	1.4	129.719
B 249.678	10.8222	ppb	0.2100	1.9	-597.105
Ba 389.178	963.095	ppb	3.4482	0.4	24156.0
Be 313.042	10.4259	ppb	0.0247	0.2	21384.1
Ca 370.602	54049	ppb	126.0	0.2	158316
Cd 226.502	5.9143	ppb	0.1560	2.6	2045.43
Co 228.615	91.1951	ppb	0.7818	0.9	1248.31

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	353.242	ppb	0.8096	0.2	21579.4
Cu 324.754	249.934	ppb	1.5544	0.6	20050.2
Fe 271.441	379840	ppb	1605.69	0.4	670214
K 766.491	7764.17	ppb	20.4361	0.3	346958
Mg 279.078	17315.9	ppb	45.6084	0.3	49691.7
Mn 257.610	7005.07	ppb	16.7945	0.2	1790950
Mo 202.032	16.6768	ppb	0.4747	2.8	116.787
Na 330.237	217.165	ppb	80.5489	37.1	-91.5777
Ni 231.604	110.931	ppb	1.1974	1.1	406.559
Pb 220.353	799.459	ppb	11.1183	1.4	1409.84
Sb 206.834	-2.3233	ppb	0.8967	38.6	9.6049
Se 196.026	-2.2256	ppb	1.9685	88.4	8.2465
Sn 189.925	75.6074	ppb	3.2362	4.3	57.0402
Sr 216.596	222.417	ppb	0.8320	0.4	3688.22
Ti 334.941	1077.31	ppb	2.2158	0.2	365176
Tl 190.794	-1.9202	ppb	1.6084	83.8	-59.5173
V 292.401	509.337	ppb	0.4791	0.1	14798.1
Zn 206.200	1640.39	ppb	5.5890	0.3	1977.50

680-106803-a-5-a (Samp) **11/5/2014, 1:38:49 AM** **Rack 2, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.0671u	-1.8089u	-1.3683u
Al 308.215	131314	130847	131171
As 188.980	290.254	283.852	280.730
B 249.678	3.3282u	2.8573u	4.7937u
Ba 389.178	771.819	771.347	772.798
Be 313.042	8.6332	8.6375	8.6225
Ca 370.602	28664	28624	28535
Cd 226.502	3.0869	2.9382	3.3455
Co 228.615	87.4718	87.8254	87.5783
Cr 267.716	722.362	721.182	720.315
Cu 324.754	247.739	245.970	247.506
Fe 271.441	464333	462334	459247
K 766.491	6101.81	6086.96	6096.54
Mg 279.078	7956.04	7939.53	7933.98
Mn 257.610	6925.49	6904.14	6883.66
Mo 202.032	24.2830	23.7219	24.0943
Na 330.237	66.2495u	66.5864u	21.7268u
Ni 231.604	268.415	271.588	268.807
Pb 220.353	438.847	434.356	433.305
Sb 206.834	-5.3045	0.9042	-3.6610
Se 196.026	-2.0731	-2.0417	-0.6418
Sn 189.925	35.3047	36.3767	36.6226
Sr 216.596	129.683	129.880	129.375
Ti 334.941	1050.14	1047.28	1049.55
Tl 190.794	-1.1345u	-1.7475u	-2.5655u
V 292.401	577.966	577.420	575.721
Zn 206.200	863.860	859.387	861.136

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4147	ppb	0.3731	26.4	-174.505
Al 308.215	131111	ppb	239.344	0.2	971118

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	284.945	ppb	4.8550	1.7	179.496
B 249.678	3.6597	ppb	1.0099	27.6	-917.474
Ba 389.178	771.988	ppb	0.7397	0.1	19436.2
Be 313.042	8.6311	ppb	0.0077	0.1	17664.9
Ca 370.602	28608	ppb	66.05	0.2	80815
Cd 226.502	3.1235	ppb	0.2061	6.6	2283.78
Co 228.615	87.6252	ppb	0.1814	0.2	1208.10
Cr 267.716	721.286	ppb	1.0273	0.1	43810.6
Cu 324.754	247.072	ppb	0.9609	0.4	19862.6
Fe 271.441	461971	ppb	2562.15	0.6	815126
K 766.491	6095.10	ppb	7.5273	0.1	272430
Mg 279.078	7943.18	ppb	11.4730	0.1	22693.8
Mn 257.610	6904.43	ppb	20.9126	0.3	1765447
Mo 202.032	24.0330	ppb	0.2855	1.2	169.067
Na 330.237	51.5210	ppb	25.8030	50.1	-99.5659
Ni 231.604	269.603	ppb	1.7298	0.6	952.459
Pb 220.353	435.503	ppb	2.9433	0.7	789.776
Sb 206.834	-2.6871	ppb	3.2169	119.7	16.3187
Se 196.026	-1.5855	ppb	0.8175	51.6	9.6858
Sn 189.925	36.1013	ppb	0.7008	1.9	24.8233
Sr 216.596	129.646	ppb	0.2545	0.2	2479.08
Ti 334.941	1048.99	ppb	1.5095	0.1	355572
Tl 190.794	-1.8158	ppb	0.7179	39.5	-71.2848
V 292.401	577.036	ppb	1.1708	0.2	16760.3
Zn 206.200	861.461	ppb	2.2542	0.3	1023.73

680-106803-a-6-a (Samp) **11/5/2014, 1:43:05 AM** **Rack 2, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.9919u	-1.5823u	-2.5257u
Al 308.215	141642	142034	141555
As 188.980	327.075	321.517	328.109
B 249.678	0.9217u	1.2815u	1.7956u
Ba 389.178	720.069	720.101	719.269
Be 313.042	9.4261	9.4318	9.4145
Ca 370.602	25880	26001	26006
Cd 226.502	3.8746	3.8971	3.6991
Co 228.615	74.0827	74.6716	73.5521
Cr 267.716	605.938	607.225	606.651
Cu 324.754	253.606	253.885	253.090
Fe 271.441	517784	518245	519549
K 766.491	6208.62	6210.20	6201.22
Mg 279.078	8162.34	8200.93	8185.85
Mn 257.610	5978.73	6008.03	5990.77
Mo 202.032	17.6659	18.0880	17.9861
Na 330.237	24.6111u	77.0930u	57.7634u
Ni 231.604	113.154	113.294	112.731
Pb 220.353	420.249	427.524	424.832
Sb 206.834	-3.1627	-8.3439	2.7801
Se 196.026	-7.0047	-7.8830	-12.9915
Sn 189.925	37.7129	40.6016	36.1183
Sr 216.596	126.541	126.296	126.887
Ti 334.941	1022.06	1023.03	1020.41

Label	Replicates Concentration		
Tl 190.794	-5.5412u	-9.5871u	-10.4237u
V 292.401	749.055	751.594	752.044
Zn 206.200	878.161	883.345	881.617

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.0333	ppb	0.4731	23.3	-243.514
Al 308.215	141744	ppb	255.333	0.2	1049882
As 188.980	325.567	ppb	3.5452	1.1	205.694
B 249.678	1.3329	ppb	0.4392	32.9	-1093.12
Ba 389.178	719.813	ppb	0.4712	0.1	18173.3
Be 313.042	9.4241	ppb	0.0088	0.1	19315.2
Ca 370.602	25962	ppb	71.19	0.3	72113
Cd 226.502	3.8236	ppb	0.1084	2.8	2575.96
Co 228.615	74.1022	ppb	0.5600	0.8	1035.06
Cr 267.716	606.605	ppb	0.6446	0.1	36919.8
Cu 324.754	253.527	ppb	0.4034	0.2	20393.0
Fe 271.441	518526	ppb	915.079	0.2	914909
K 766.491	6206.68	ppb	4.7938	0.1	277412
Mg 279.078	8183.04	ppb	19.4480	0.2	23400.3
Mn 257.610	5992.51	ppb	14.7288	0.2	1532710
Mo 202.032	17.9133	ppb	0.2202	1.2	118.643
Na 330.237	53.1559	ppb	26.5426	49.9	-113.598
Ni 231.604	113.060	ppb	0.2930	0.3	426.807
Pb 220.353	424.202	ppb	3.6778	0.9	774.017
Sb 206.834	-2.9088	ppb	5.5663	191.4	16.6908
Se 196.026	-9.2931	ppb	3.2329	34.8	6.5881
Sn 189.925	38.1443	ppb	2.2726	6.0	26.4892
Sr 216.596	126.575	ppb	0.2968	0.2	2518.15
Ti 334.941	1021.83	ppb	1.3204	0.1	346379
Tl 190.794	-8.5173	ppb	2.6111	30.7	-87.6137
V 292.401	750.898	ppb	1.6117	0.2	21793.7
Zn 206.200	881.041	ppb	2.6400	0.3	1045.04

680-106803-a-7-a (Samp) **11/5/2014, 1:47:22 AM** **Rack 2, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-2.8216u	-2.2135u	-2.4798u
Al 308.215	119372	119393	119607
As 188.980	259.819	257.371	249.985
B 249.678	-0.3437u	0.5652u	1.8776u
Ba 389.178	1640.37	1643.74	1647.51
Be 313.042	9.9765	9.9932	10.0181
Ca 370.602	23952	24037	24042
Cd 226.502	2.0579	2.0119	2.5651
Co 228.615	128.130	127.692	126.767
Cr 267.716	267.722	267.822	268.352
Cu 324.754	201.140	199.480	202.705
Fe 271.441	403003	402337	403781
K 766.491	5874.78	5873.45	5907.20
Mg 279.078	8983.08	8985.53	8980.47
Mn 257.610	12207.4	12192.7	12246.3
Mo 202.032	13.5348	13.4652	13.3429
Na 330.237	173.813u	197.963u	258.549u

Label	Replicates Concentration		
Ni 231.604	94.6329	93.3428	93.9159
Pb 220.353	394.906	400.453	400.592
Sb 206.834	-4.0302	-0.3979	-8.2436
Se 196.026	-0.1439	-12.9947	5.8853
Sn 189.925	24.0576	30.7332	30.2611
Sr 216.596	150.901	151.376	151.494
Ti 334.941	866.672	866.411	868.010
Tl 190.794	-4.5977u	-4.3388u	0.2393u
V 292.401	484.354	483.839	484.174
Zn 206.200	622.544	620.628	625.350

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.5050	ppb	0.3048	12.2	-232.533
Al 308.215	119457	ppb	129.972	0.1	884809
As 188.980	255.725	ppb	5.1198	2.0	160.731
B 249.678	0.6997	ppb	1.1167	159.6	-827.168
Ba 389.178	1643.87	ppb	3.5719	0.2	41098.1
Be 313.042	9.9959	ppb	0.0209	0.2	20480.3
Ca 370.602	24010	ppb	50.43	0.2	67808
Cd 226.502	2.2116	ppb	0.3070	13.9	1970.12
Co 228.615	127.530	ppb	0.6962	0.5	1719.68
Cr 267.716	267.965	ppb	0.3383	0.1	16478.7
Cu 324.754	201.108	ppb	1.6128	0.8	16224.8
Fe 271.441	403040	ppb	723.048	0.2	711153
K 766.491	5885.14	ppb	19.1140	0.3	263054
Mg 279.078	8983.03	ppb	2.5317	0.0	25577.2
Mn 257.610	12215.5	ppb	27.7082	0.2	3121887
Mo 202.032	13.4476	ppb	0.0972	0.7	90.6838
Na 330.237	210.108	ppb	43.6538	20.8	-71.0891
Ni 231.604	93.9639	ppb	0.6464	0.7	351.070
Pb 220.353	398.650	ppb	3.2438	0.8	723.135
Sb 206.834	-4.2239	ppb	3.9264	93.0	6.4802
Se 196.026	-2.4178	ppb	9.6432	398.8	9.7237
Sn 189.925	28.3506	ppb	3.7254	13.1	18.5029
Sr 216.596	151.257	ppb	0.3142	0.2	2705.33
Ti 334.941	867.031	ppb	0.8580	0.1	293906
Tl 190.794	-2.8991	ppb	2.7210	93.9	-61.0715
V 292.401	484.122	ppb	0.2611	0.1	14082.4
Zn 206.200	622.841	ppb	2.3749	0.4	737.858

680-106803-a-8-a (Samp) **11/5/2014, 1:51:38 AM** **Rack 2, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.4979u	-1.2013u	-1.4547u
Al 308.215	133179	132803	133199
As 188.980	318.845	313.588	319.448
B 249.678	7.3654u	8.0789u	7.4127u
Ba 389.178	1064.20	1061.10	1062.97
Be 313.042	9.2602	9.2149	9.2373
Ca 370.602	27493	27290	27371
Cd 226.502	5.2836	5.1603	5.2679
Co 228.615	62.2090	61.9270	62.4651
Cr 267.716	251.116	250.161	251.144

Label	Replicates Concentration		
Cu 324.754	341.282	339.543	343.670
Fe 271.441	351690	350688	352671
K 766.491	9152.44	9113.22	9134.09
Mg 279.078	14371.7	14332.1	14381.9
Mn 257.610	3934.17	3929.78	3940.91
Mo 202.032	15.3954	15.3570	16.2649
Na 330.237	438.000u	404.402u	288.960u
Ni 231.604	132.094	131.157	129.792
Pb 220.353	553.063	547.401	554.352
Sb 206.834	-5.5238	-2.1887	-3.8333
Se 196.026	-0.3239	1.7831	8.2072
Sn 189.925	42.3610	36.9601	40.1710
Sr 216.596	180.772	180.586	180.858
Ti 334.941	908.723	906.691	907.184
Tl 190.794	-4.5256u	1.5619u	-3.7392u
V 292.401	455.978	453.486	453.723
Zn 206.200	1133.11	1121.35	1135.48

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3846	ppb	0.1602	11.6	-170.275
Al 308.215	133061	ppb	223.045	0.2	985320
As 188.980	317.293	ppb	3.2231	1.0	201.287
B 249.678	7.6190	ppb	0.3990	5.2	-585.225
Ba 389.178	1062.76	ppb	1.5621	0.1	26614.1
Be 313.042	9.2375	ppb	0.0226	0.2	18916.4
Ca 370.602	27385	ppb	102.4	0.4	78392
Cd 226.502	5.2373	ppb	0.0671	1.3	1884.37
Co 228.615	62.2004	ppb	0.2691	0.4	862.979
Cr 267.716	250.807	ppb	0.5596	0.2	15372.6
Cu 324.754	341.498	ppb	2.0718	0.6	27232.4
Fe 271.441	351683	ppb	991.377	0.3	620530
K 766.491	9133.25	ppb	19.6224	0.2	408092
Mg 279.078	14361.9	ppb	26.3097	0.2	41245.2
Mn 257.610	3934.95	ppb	5.6066	0.1	1006600
Mo 202.032	15.6725	ppb	0.5135	3.3	110.602
Na 330.237	377.121	ppb	78.1755	20.7	-63.6104
Ni 231.604	131.014	ppb	1.1577	0.9	472.142
Pb 220.353	551.605	ppb	3.6977	0.7	980.485
Sb 206.834	-3.8486	ppb	1.6676	43.3	4.9996
Se 196.026	3.2221	ppb	4.4439	137.9	9.7178
Sn 189.925	39.8307	ppb	2.7165	6.8	27.8649
Sr 216.596	180.739	ppb	0.1394	0.1	3049.94
Ti 334.941	907.533	ppb	1.0599	0.1	307635
Tl 190.794	-2.2343	ppb	3.3110	148.2	-57.6959
V 292.401	454.395	ppb	1.3757	0.3	13207.3
Zn 206.200	1129.98	ppb	7.5676	0.7	1357.94

680-106803-a-9-a (Samp) **11/5/2014, 1:55:55 AM** **Rack 2, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-3.0848u	-2.7735u	-3.8300u
Al 308.215	109852	109791	109972
As 188.980	200.030	203.091	206.946

Label	Replicates Concentration		
B 249.678	8.2798u	8.2919u	7.9079u
Ba 389.178	1247.86	1247.12	1248.14
Be 313.042	12.2823	12.2845	12.3111
Ca 370.602	30309	30407	30430
Cd 226.502	1.8930	1.9838	1.9599
Co 228.615	100.762	99.1776	100.038
Cr 267.716	210.845	211.403	211.602
Cu 324.754	244.123	243.826	245.680
Fe 271.441	295850	295976	296682
K 766.491	9577.41	9579.30	9607.07
Mg 279.078	13661.6	13659.0	13667.4
Mn 257.610	5077.55	5074.79	5078.74
Mo 202.032	11.8404	11.1041	12.5007
Na 330.237	753.232u	473.799u	876.362u
Ni 231.604	126.646	124.053	126.890
Pb 220.353	393.341	391.277	386.587
Sb 206.834	-8.2685	-3.9267	-5.4432
Se 196.026	5.4325	-8.9265	5.4212
Sn 189.925	34.0035	35.9627	34.2656
Sr 216.596	173.685	174.783	175.861
Ti 334.941	691.597	691.697	692.615
Tl 190.794	-1.2945u	3.0768u	0.6843u
V 292.401	363.802	364.229	364.266
Zn 206.200	761.737	763.902	760.824

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.2295	ppb	0.5429	16.8	-316.889
Al 308.215	109871	ppb	92.1085	0.1	813698
As 188.980	203.356	ppb	3.4654	1.7	127.218
B 249.678	8.1599	ppb	0.2183	2.7	-442.554
Ba 389.178	1247.71	ppb	0.5257	0.0	31181.2
Be 313.042	12.2926	ppb	0.0160	0.1	25229.8
Ca 370.602	30382	ppb	64.52	0.2	88035
Cd 226.502	1.9456	ppb	0.0471	2.4	1470.05
Co 228.615	99.9927	ppb	0.7934	0.8	1347.28
Cr 267.716	211.283	ppb	0.3925	0.2	12966.7
Cu 324.754	244.543	ppb	0.9957	0.4	19589.9
Fe 271.441	296169	ppb	448.579	0.2	522587
K 766.491	9587.93	ppb	16.6062	0.2	428395
Mg 279.078	13662.6	ppb	4.2972	0.0	39215.5
Mn 257.610	5077.03	ppb	2.0280	0.0	1298127
Mo 202.032	11.8151	ppb	0.6987	5.9	83.9267
Na 330.237	701.131	ppb	206.277	29.4	-24.4235
Ni 231.604	125.863	ppb	1.5721	1.2	449.352
Pb 220.353	390.401	ppb	3.4613	0.9	699.768
Sb 206.834	-5.8795	ppb	2.2035	37.5	-0.5002
Se 196.026	0.6424	ppb	8.2869	1290.0	7.9745
Sn 189.925	34.7439	ppb	1.0636	3.1	23.7170
Sr 216.596	174.777	ppb	1.0880	0.6	2890.55
Ti 334.941	691.970	ppb	0.5609	0.1	234580
Tl 190.794	0.8222	ppb	2.1889	266.2	-45.4098
V 292.401	364.099	ppb	0.2580	0.1	10585.0
Zn 206.200	762.154	ppb	1.5809	0.2	913.163

680-106803-a-10-a (Samp) **11/5/2014, 2:00:11 AM** **Rack 2, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.7494	1.2056	0.9691
Al 308.215	140889	141126	141175
As 188.980	257.187	255.850	252.552
B 249.678	17.4000u	16.3534u	17.4466u
Ba 389.178	2020.11	2025.62	2026.15
Be 313.042	14.1017	14.1417	14.1503
Ca 370.602	52194	52328	52279
Cd 226.502	15.0709	15.4649	15.3468
Co 228.615	85.7043	85.6749	85.3428
Cr 267.716	466.073	466.761	466.591
Cu 324.754	409.742	411.153	412.521
Fe 271.441	386401	386553	387857
K 766.491	11181.6	11247.1	11221.8
Mg 279.078	12124.5	12123.8	12127.9
Mn 257.610	10426.6	10447.6	10428.4
Mo 202.032	18.2394	18.6298	18.9631
Na 330.237	951.652u	1092.04u	951.122u
Ni 231.604	148.728	149.068	150.466
Pb 220.353	1722.77	1728.11	1729.26
Sb 206.834	0.8456	1.1827	2.1089
Se 196.026	12.0562	-6.7901	-0.3865
Sn 189.925	108.419	106.786	117.898
Sr 216.596	392.341	392.697	392.226
Ti 334.941	1087.38	1089.86	1092.47
Tl 190.794	-7.8031u	-2.9937u	-1.6612u
V 292.401	512.710	514.332	513.906
Zn 206.200	4333.78	4327.75	4344.00

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9747	ppb	0.2282	23.4	59.0290
Al 308.215	141063	ppb	152.983	0.1	1044579
As 188.980	255.196	ppb	2.3859	0.9	160.709
B 249.678	17.0667	ppb	0.6181	3.6	-506.084
Ba 389.178	2023.96	ppb	3.3433	0.2	50551.8
Be 313.042	14.1312	ppb	0.0260	0.2	29046.4
Ca 370.602	52267	ppb	67.38	0.1	152970
Cd 226.502	15.2942	ppb	0.2022	1.3	2534.57
Co 228.615	85.5740	ppb	0.2008	0.2	1175.96
Cr 267.716	466.475	ppb	0.3582	0.1	28428.4
Cu 324.754	411.139	ppb	1.3893	0.3	32719.6
Fe 271.441	386937	ppb	800.643	0.2	682736
K 766.491	11216.8	ppb	33.0383	0.3	501129
Mg 279.078	12125.4	ppb	2.2056	0.0	34658.2
Mn 257.610	10434.2	ppb	11.6295	0.1	2666865
Mo 202.032	18.6108	ppb	0.3623	1.9	131.325
Na 330.237	998.272	ppb	81.2087	8.1	-123.718
Ni 231.604	149.420	ppb	0.9211	0.6	537.797
Pb 220.353	1726.72	ppb	3.4639	0.2	3006.21
Sb 206.834	1.3791	ppb	0.6541	47.4	16.9460
Se 196.026	1.6266	ppb	9.5831	589.2	11.0014
Sn 189.925	111.035	ppb	5.9996	5.4	85.9304
Sr 216.596	392.421	ppb	0.2458	0.1	6090.89

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	1089.90	ppb	2.5465	0.2	369434
Tl 190.794	-4.1527	ppb	3.2308	77.8	-61.3002
V 292.401	513.650	ppb	0.8411	0.2	14919.3
Zn 206.200	4335.17	ppb	8.2129	0.2	5257.30

680-106803-a-11-a (Samp) **11/5/2014, 2:04:28 AM** **Rack 2, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2559u	-0.4037u	-0.7348u
Al 308.215	139142	139485	138842
As 188.980	186.930	185.680	186.012
B 249.678	9.9723u	7.6846u	8.0008u
Ba 389.178	2161.94	2164.76	2156.70
Be 313.042	15.3007	15.3580	15.2923
Ca 370.602	39690	39945	39884
Cd 226.502	7.1963	6.6962	6.4872
Co 228.615	76.6627	77.3300	77.5736
Cr 267.716	401.739	402.299	401.016
Cu 324.754	199.141	200.048	198.379
Fe 271.441	443337	446166	443516
K 766.491	7332.14	7372.80	7345.42
Mg 279.078	10419.3	10490.1	10469.4
Mn 257.610	10459.6	10491.1	10468.6
Mo 202.032	10.7162	11.5087	11.8221
Na 330.237	352.153u	308.253u	395.443u
Ni 231.604	91.6209	91.2107	90.9446
Pb 220.353	1105.19	1104.31	1096.96
Sb 206.834	-7.9983	-4.9051	-5.2542
Se 196.026	-8.4736	-4.8407	0.6950
Sn 189.925	150.314	153.988	150.450
Sr 216.596	287.269	287.939	287.329
Ti 334.941	670.349	672.731	669.007
Tl 190.794	-3.0021u	-4.4195u	-5.5657u
V 292.401	537.554	540.436	538.933
Zn 206.200	1646.32	1639.39	1646.41

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4648	ppb	0.2452	52.8	-74.1556
Al 308.215	139156	ppb	321.772	0.2	1030584
As 188.980	186.207	ppb	0.6477	0.3	115.401
B 249.678	8.5526	ppb	1.2397	14.5	-790.812
Ba 389.178	2161.13	ppb	4.0912	0.2	53997.8
Be 313.042	15.3170	ppb	0.0357	0.2	31494.5
Ca 370.602	39840	ppb	133.1	0.3	114707
Cd 226.502	6.7932	ppb	0.3644	5.4	2382.27
Co 228.615	77.1888	ppb	0.4716	0.6	1060.74
Cr 267.716	401.685	ppb	0.6435	0.2	24552.0
Cu 324.754	199.189	ppb	0.8355	0.4	16092.3
Fe 271.441	444340	ppb	1583.98	0.4	784014
K 766.491	7350.12	ppb	20.7300	0.3	328470
Mg 279.078	10459.6	ppb	36.3820	0.3	29860.2
Mn 257.610	10473.1	ppb	16.2456	0.2	2676984
Mo 202.032	11.3490	ppb	0.5700	5.0	72.2282

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	351.950	ppb	43.5957	12.4	-99.8346
Ni 231.604	91.2587	ppb	0.3407	0.4	345.912
Pb 220.353	1102.15	ppb	4.5174	0.4	1936.08
Sb 206.834	-6.0525	ppb	1.6941	28.0	6.8607
Se 196.026	-4.2064	ppb	4.6171	109.8	9.0378
Sn 189.925	151.584	ppb	2.0830	1.4	118.998
Sr 216.596	287.512	ppb	0.3705	0.1	4689.21
Ti 334.941	670.696	ppb	1.8860	0.3	227386
Tl 190.794	-4.3291	ppb	1.2842	29.7	-69.7851
V 292.401	538.974	ppb	1.4413	0.3	15668.6
Zn 206.200	1644.04	ppb	4.0290	0.2	1978.44

680-106803-a-12-a (Samp) **11/5/2014, 2:08:45 AM** **Rack 2, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.1789	0.4366	1.2762
Al 308.215	128661	128813	129006
As 188.980	228.095	220.429	225.456
B 249.678	20.5618u	21.2010u	20.1654u
Ba 389.178	2348.80	2353.50	2357.81
Be 313.042	13.9052	13.9202	13.9398
Ca 370.602	54654	54744	54830
Cd 226.502	11.1115	11.2837	11.4949
Co 228.615	94.6742	93.3089	93.9445
Cr 267.716	380.732	381.188	382.119
Cu 324.754	349.728	347.523	349.495
Fe 271.441	387816	389741	389812
K 766.491	9249.43	9267.68	9301.72
Mg 279.078	12302.6	12306.5	12325.6
Mn 257.610	12717.6	12780.0	12769.4
Mo 202.032	19.1436	20.1404	20.2198
Na 330.237	550.024u	697.691u	624.318u
Ni 231.604	124.018	127.952	126.029
Pb 220.353	1984.58	1985.27	1999.12
Sb 206.834	4.0166	-1.1421	-0.9653
Se 196.026	-3.0902	-5.3779	2.1925
Sn 189.925	238.023	241.622	229.526
Sr 216.596	430.132	430.576	432.415
Ti 334.941	969.408	971.438	974.176
Tl 190.794	-2.2846u	-0.6383u	-4.2832u
V 292.401	455.020	455.804	456.426
Zn 206.200	2870.76	2877.18	2878.45

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9639	ppb	0.4592	47.6	68.5714
Al 308.215	128827	ppb	172.863	0.1	954075
As 188.980	224.660	ppb	3.8949	1.7	140.686
B 249.678	20.6427	ppb	0.5225	2.5	-449.590
Ba 389.178	2353.37	ppb	4.5056	0.2	58750.4
Be 313.042	13.9218	ppb	0.0173	0.1	28608.1
Ca 370.602	54742	ppb	88.04	0.2	160388
Cd 226.502	11.2967	ppb	0.1920	1.7	2349.57
Co 228.615	93.9759	ppb	0.6832	0.7	1282.68

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	381.347	ppb	0.7070	0.2	23310.3
Cu 324.754	348.915	ppb	1.2110	0.3	27832.5
Fe 271.441	389123	ppb	1132.60	0.3	686593
K 766.491	9272.94	ppb	26.5418	0.3	414330
Mg 279.078	12311.6	ppb	12.3059	0.1	35148.4
Mn 257.610	12755.7	ppb	33.3751	0.3	3259856
Mo 202.032	19.8346	ppb	0.5997	3.0	140.718
Na 330.237	624.011	ppb	73.8336	11.8	-105.153
Ni 231.604	126.000	ppb	1.9674	1.6	458.528
Pb 220.353	1989.65	ppb	8.2030	0.4	3459.44
Sb 206.834	0.6364	ppb	2.9287	460.2	14.8412
Se 196.026	-2.0919	ppb	3.8827	185.6	9.8115
Sn 189.925	236.390	ppb	6.2106	2.6	188.156
Sr 216.596	431.041	ppb	1.2109	0.3	6639.73
Ti 334.941	971.674	ppb	2.3930	0.2	329371
Tl 190.794	-2.4020	ppb	1.8253	76.0	-58.3514
V 292.401	455.750	ppb	0.7045	0.2	13255.3
Zn 206.200	2875.46	ppb	4.1240	0.1	3480.47

Cont Calib Verif (CCV) **11/5/2014, 2:13:02 AM** **Rack 2, Tube 49**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	510.080	509.338	507.242
Al 308.215	4860.66	4880.02	4867.69
As 188.980	502.151	491.376	499.190
B 249.678	482.951	487.589	490.075
Ba 389.178	4962.06	4981.03	4961.01
Be 313.042	491.862	494.181	492.710
Ca 370.602	4945	4940	4922
Cd 226.502	495.567	498.320	497.721
Co 228.615	500.745	502.352	499.469
Cr 267.716	5077.60	5094.03	5079.22
Cu 324.754	5112.01	5123.32	5115.11
Fe 271.441	4948.47	4980.54	4939.99
K 766.491	10396.3	10430.0	10386.3
Mg 279.078	4885.79	4903.93	4905.94
Mn 257.610	5017.74	5053.27	5037.31
Mo 202.032	488.946	491.052	490.948
Na 330.237	7460.61	7425.39	7246.19
Ni 231.604	2463.45	2491.37	2475.62
Pb 220.353	500.162	508.222	504.728
Sb 206.834	949.383	947.864	953.074
Se 196.026	4921.07	4947.78	4946.04
Sn 189.925	4964.72	4987.59	4996.01
Sr 216.596	2446.51	2459.96	2460.58
Ti 334.941	491.312	492.285	490.571
Tl 190.794	5015.21	5040.65	5015.85
V 292.401	4916.92	4922.12	4903.63
Zn 206.200	2476.41	2490.23	2494.18

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	508.887	ppb	1.4717	0.3	44814.8	101.77734
Al 308.215	4869.46	ppb	9.8029	0.2	37088.5	97.38914

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	497.572	ppb	5.5664	1.1	319.455	99.51447
B 249.678	486.872	ppb	3.6156	0.7	8529.36	97.37437
Ba 389.178	4968.03	ppb	11.2693	0.2	123583	99.36063
Be 313.042	492.918	ppb	1.1733	0.2	1019328	98.58357
Ca 370.602	4936	ppb	11.89	0.2	15213	98.71478
Cd 226.502	497.203	ppb	1.4476	0.3	24288.5	99.44056
Co 228.615	500.855	ppb	1.4447	0.3	6551.46	100.17107
Cr 267.716	5083.61	ppb	9.0542	0.2	306493	101.67226
Cu 324.754	5116.81	ppb	5.8450	0.1	402227	102.33622
Fe 271.441	4956.33	ppb	21.3891	0.4	8885.53	99.12660
K 766.491	10404.2	ppb	22.9116	0.2	464844	104.04205
Mg 279.078	4898.55	ppb	11.0998	0.2	14016.2	97.97106
Mn 257.610	5036.11	ppb	17.7947	0.4	1286572	100.72217
Mo 202.032	490.315	ppb	1.1871	0.2	3784.14	98.06305
Na 330.237	7377.40	ppb	114.986	1.6	330.266	98.36526
Ni 231.604	2476.81	ppb	13.9946	0.6	8395.32	99.07256
Pb 220.353	504.371	ppb	4.0419	0.8	879.870	100.87419
Sb 206.834	950.107	ppb	2.6796	0.3	1518.26	95.01070
Se 196.026	4938.30	ppb	14.9410	0.3	2360.01	98.76596
Sn 189.925	4982.77	ppb	16.1940	0.3	4058.77	99.65546
Sr 216.596	2455.68	ppb	7.9533	0.3	34526.8	98.22732
Ti 334.941	491.389	ppb	0.8598	0.2	166546	98.27782
Tl 190.794	5023.91	ppb	14.5066	0.3	5930.02	100.47813
V 292.401	4914.23	ppb	9.5339	0.2	141138	98.28452
Zn 206.200	2486.94	ppb	9.3354	0.4	3010.90	99.47768

Cont Calib Blank (CCB) **11/5/2014, 2:17:19 AM** **Rack 2, Tube 50**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3992u	0.2963	-0.1433u
Al 308.215	0.5505	1.9387	1.5336
As 188.980	-4.0269u	-2.8115u	-3.0742u
B 249.678	1.5011	0.8496	0.5200
Ba 389.178	1.2615	1.1049	0.2220
Be 313.042	-0.0169u	-0.0158u	-0.0112u
Ca 370.602	1.967	1.244	2.061
Cd 226.502	-0.0483u	-0.0843u	0.0053
Co 228.615	-0.1294u	-0.5053u	-0.1342u
Cr 267.716	0.2225	0.1793	0.1462
Cu 324.754	0.1379	0.4612	0.3859
Fe 271.441	9.0409	11.9505	10.8374
K 766.491	0.8106	0.4303	0.3891
Mg 279.078	-0.3274u	2.7174	0.4723
Mn 257.610	0.3818	0.4779	0.4945
Mo 202.032	0.2415	-0.3181u	0.0635
Na 330.237	-121.938u	-197.591u	7.1235
Ni 231.604	0.4328	0.3325	0.2906
Pb 220.353	0.5818	1.1198	-0.3869u
Sb 206.834	3.7001	4.7205	1.4836
Se 196.026	2.3744	5.8216	8.1704
Sn 189.925	-3.5489u	-1.0755u	-0.7803u
Sr 216.596	0.1087	-0.0647u	0.1184
Ti 334.941	0.0519	0.0224	0.0215

Label	Replicates Concentration		
Tl 190.794	-2.0924u	-1.0117u	0.3289
V 292.401	0.2714	0.4443	0.2733
Zn 206.200	0.4568	0.2601	-0.4919u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0821	ppb	0.3518	428.7	-8.6379	-0.08206
Al 308.215	1.3409	ppb	0.7139	53.2	508.846	1.34092
As 188.980	-3.3042	ppb	0.6395	19.4	-6.5705	-3.30420
B 249.678	0.9569	ppb	0.4993	52.2	141.437	0.95690
Ba 389.178	0.8628	ppb	0.5604	65.0	-49.7888	0.86283
Be 313.042	-0.0147	ppb	0.0030	20.6	-252.207	-0.01466
Ca 370.602	1.757	ppb	0.4468	25.4	42.73	1.75700
Cd 226.502	-0.0424	ppb	0.0451	106.3	24.5126	-0.04242
Co 228.615	-0.2563	ppb	0.2156	84.1	-2.3567	-0.25630
Cr 267.716	0.1826	ppb	0.0383	21.0	56.2168	0.18264
Cu 324.754	0.3283	ppb	0.1691	51.5	269.798	0.32833
Fe 271.441	10.6096	ppb	1.4682	13.8	34.9724	10.60960
K 766.491	0.5433	ppb	0.2324	42.8	289.947	0.54335
Mg 279.078	0.9541	ppb	1.5786	165.4	22.3876	0.95412
Mn 257.610	0.4514	ppb	0.0609	13.5	211.521	0.45139
Mo 202.032	-0.0044	ppb	0.2859	6557.3	8.9535	-0.00436
Na 330.237	-104.135	ppb	103.512	99.4	28.3195	-104.13515
Ni 231.604	0.3519	ppb	0.0731	20.8	-3.7964	0.35195
Pb 220.353	0.4382	ppb	0.7635	174.2	8.0787	0.43824
Sb 206.834	3.3014	ppb	1.6548	50.1	0.8517	3.30141
Se 196.026	5.4555	ppb	2.9153	53.4	4.8912	5.45546
Sn 189.925	-1.8016	ppb	1.5204	84.4	-6.0850	-1.80158
Sr 216.596	0.0541	ppb	0.1030	190.4	9.1058	0.05412
Ti 334.941	0.0319	ppb	0.0173	54.2	35.7603	0.03192
Tl 190.794	-0.9251	ppb	1.2130	131.1	-8.3079	-0.92506
V 292.401	0.3297	ppb	0.0993	30.1	-3.3965	0.32968
Zn 206.200	0.0750	ppb	0.5007	667.7	1.4102	0.07499

680-106803-a-13-a (Samp) **11/5/2014, 2:21:35 AM** **Rack 2, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-9.1384u	-8.2810u	-8.5528u
Al 308.215	200004	199544	200722
As 188.980	121.647	117.019	113.870
B 249.678	1.6558u	1.1879u	1.3628u
Ba 389.178	1755.47	1754.34	1758.52
Be 313.042	15.2733	15.2235	15.2652
Ca 370.602	30241	30165	30131
Cd 226.502	3.0595	2.7554	3.3097
Co 228.615	229.071	227.712	226.083
Cr 267.716	333.112	332.321	332.542
Cu 324.754	65.7377	66.5278	66.0967
Fe 271.441	358478	358787	358794
K 766.491	7493.57	7493.33	7548.83
Mg 279.078	11972.5	11949.0	11961.5
Mn 257.610	21318.6	21251.1	21659.4
Mo 202.032	6.2923	7.8547	7.0003
Na 330.237	-80.1542u	-139.954u	-138.211u

Label	Replicates Concentration		
Ni 231.604	119.717	118.662	117.878
Pb 220.353	336.526	334.567	338.829
Sb 206.834	-3.8726	-11.4487u	-11.6721u
Se 196.026	-15.2920	-11.1268	-5.9037
Sn 189.925	24.2049	18.9742	22.8571
Sr 216.596	202.626	204.015	203.238
Ti 334.941	449.060	449.264	450.426
Tl 190.794	0.9997u	-3.7950u	-0.6542u
V 292.401	455.866	454.666	455.469
Zn 206.200	272.127	276.055	278.144

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-8.6574	ppb	0.4382	5.1	-719.057
Al 308.215	200090	ppb	594.111	0.3	1481078
As 188.980	117.512	ppb	3.9119	3.3	71.8419
B 249.678	1.4021	ppb	0.2364	16.9	-709.164
Ba 389.178	1756.11	ppb	2.1614	0.1	43868.5
Be 313.042	15.2540	ppb	0.0267	0.2	31362.1
Ca 370.602	30179	ppb	56.09	0.2	86955
Cd 226.502	3.0416	ppb	0.2776	9.1	1808.88
Co 228.615	227.622	ppb	1.4961	0.7	3014.38
Cr 267.716	332.658	ppb	0.4080	0.1	20405.5
Cu 324.754	66.1207	ppb	0.3956	0.6	5598.29
Fe 271.441	358686	ppb	180.623	0.1	632909
K 766.491	7511.91	ppb	31.9762	0.4	335694
Mg 279.078	11961.0	ppb	11.7526	0.1	33920.6
Mn 257.610	21409.7	ppb	218.870	1.0	5470318
Mo 202.032	7.0491	ppb	0.7823	11.1	43.7255
Na 330.237	-119.440	ppb	34.0336	28.5	-66.8586
Ni 231.604	118.752	ppb	0.9229	0.8	430.782
Pb 220.353	336.640	ppb	2.1333	0.6	614.326
Sb 206.834	-8.9978	ppb	4.4400	49.3	-1.4988
Se 196.026	-10.7741	ppb	4.7041	43.7	7.3066
Sn 189.925	22.0121	ppb	2.7158	12.3	13.3340
Sr 216.596	203.293	ppb	0.6957	0.3	3378.80
Ti 334.941	449.583	ppb	0.7371	0.2	152455
Tl 190.794	-1.1498	ppb	2.4354	211.8	-47.2293
V 292.401	455.333	ppb	0.6112	0.1	13226.6
Zn 206.200	275.442	ppb	3.0551	1.1	316.994

680-106803-a-14-a (Samp) **11/5/2014, 2:25:51 AM** **Rack 2, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-3.5748u	-3.0116u	-3.7174u
Al 308.215	170776	170691	170678
As 188.980	183.086	181.831	192.694
B 249.678	3.4396u	3.7649u	3.3762u
Ba 389.178	4596.92	4590.48	4594.58
Be 313.042	17.4882	17.5125	17.5392
Ca 370.602	34622	34644	34774
Cd 226.502	5.2175	5.1146	5.0264
Co 228.615	148.474	148.696	148.796
Cr 267.716	384.965	385.225	385.516

Label	Replicates Concentration		
Cu 324.754	130.247	131.471	129.865
Fe 271.441	410573	409392	410557
K 766.491	8265.30	8263.97	8253.60
Mg 279.078	10643.6	10662.0	10658.0
Mn 257.610	27815.8x	27620.4x	27815.4x
Mo 202.032	9.8378	11.5303	10.1728
Na 330.237	146.529u	263.627u	283.144u
Ni 231.604	117.734	117.561	117.263
Pb 220.353	495.932	497.166	502.678
Sb 206.834	-1.3367	-8.0793	-6.9060
Se 196.026	-7.9163	-6.9402	1.8842
Sn 189.925	42.2991	39.5773	39.1154
Sr 216.596	218.941	217.778	218.320
Ti 334.941	538.560	537.910	538.530
Tl 190.794	0.9244u	5.2290u	3.3108u
V 292.401	521.894	521.956	524.053
Zn 206.200	857.772	861.047	865.144

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.4346b	ppb	0.3732	10.9	-234.290
Al 308.215	170715b	ppb	52.9417	0.0	1263927
As 188.980	185.870b	ppb	5.9431	3.2	115.723
B 249.678	3.5269b	ppb	0.2085	5.9	-795.616
Ba 389.178	4593.99b	ppb	3.2571	0.1	114519
Be 313.042	17.5133b	ppb	0.0255	0.1	36031.6
Ca 370.602	34680b	ppb	81.95	0.2	100038
Cd 226.502	5.1195b	ppb	0.0956	1.9	2144.67
Co 228.615	148.655b	ppb	0.1650	0.1	1988.75
Cr 267.716	385.235b	ppb	0.2758	0.1	23636.1
Cu 324.754	130.528b	ppb	0.8390	0.6	10681.7
Fe 271.441	410174b	ppb	677.482	0.2	723742
K 766.491	8260.95b	ppb	6.4050	0.1	369141
Mg 279.078	10654.5b	ppb	9.6945	0.1	30030.8
Mn 257.610	27750.5xb	ppb	112.705	0.4	7090170
Mo 202.032	10.5136b	ppb	0.8962	8.5	67.6234
Na 330.237	231.100b	ppb	73.8879	32.0	-77.2688
Ni 231.604	117.519b	ppb	0.2386	0.2	431.609
Pb 220.353	498.592b	ppb	3.5919	0.7	898.592
Sb 206.834	-5.4407b	ppb	3.6022	66.2	6.3985
Se 196.026	-4.3241b	ppb	5.3987	124.9	12.6222
Sn 189.925	40.3306b	ppb	1.7203	4.3	28.2724
Sr 216.596	218.346b	ppb	0.5817	0.3	3664.15
Ti 334.941	538.334b	ppb	0.3669	0.1	182532
Tl 190.794	3.1547b	ppb	2.1566	68.4	-46.2784
V 292.401	522.634b	ppb	1.2288	0.2	15183.0
Zn 206.200	861.321b	ppb	3.6936	0.4	1027.39

680-106803-a-15-a (Samp) **11/5/2014, 2:30:08 AM** **Rack 2, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	6.8276	6.6430	6.6419
Al 308.215	162961	162531	162384
As 188.980	271.581	276.647	273.029

Label	Replicates Concentration		
B 249.678	25.3793u	25.7708u	26.4471u
Ba 389.178	5582.12	5571.44	5567.16
Be 313.042	13.8917	13.8842	13.9543
Ca 370.602	60832	60507	60476
Cd 226.502	28.5502	28.9814	28.7514
Co 228.615	100.017	97.6304	98.6645
Cr 267.716	365.455	364.079	363.908
Cu 324.754	776.608	776.875	779.190
Fe 271.441	452574	450792	450973
K 766.491	23639.1	23609.5	23618.5
Mg 279.078	19015.5	18970.9	18934.9
Mn 257.610	30988.0x	30863.1x	31075.3x
Mo 202.032	49.6917	49.5069	49.3352
Na 330.237	2255.88u	2119.18u	2192.67u
Ni 231.604	182.999	185.519	186.113
Pb 220.353	5054.74	5046.47	5048.44
Sb 206.834	8.5970	4.4001	10.6957
Se 196.026	-1.9918	6.2362	-9.5707
Sn 189.925	110.122	106.084	107.314
Sr 216.596	575.630	573.180	572.952
Ti 334.941	1450.23	1447.25	1448.80
Tl 190.794	25.9952u	31.2010u	28.9011u
V 292.401	402.043	400.635	400.249
Zn 206.200	8185.59	8168.06	8151.90

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	6.7042b	ppb	0.1069	1.6	656.244
Al 308.215	162625b	ppb	299.505	0.2	1204161
As 188.980	273.752b	ppb	2.6094	1.0	172.589
B 249.678	25.8657b	ppb	0.5402	2.1	-508.623
Ba 389.178	5573.57b	ppb	7.7053	0.1	138933
Be 313.042	13.9101b	ppb	0.0385	0.3	28570.4
Ca 370.602	60605b	ppb	197.2	0.3	177921
Cd 226.502	28.7610b	ppb	0.2157	0.8	3485.40
Co 228.615	98.7706b	ppb	1.1968	1.2	1360.85
Cr 267.716	364.481b	ppb	0.8481	0.2	22427.4
Cu 324.754	777.558b	ppb	1.4201	0.2	61542.7
Fe 271.441	451446b	ppb	980.536	0.2	796555
K 766.491	23622.4b	ppb	15.1721	0.1	1055073
Mg 279.078	18973.8b	ppb	40.3653	0.2	53924.5
Mn 257.610	30975.5xb	ppb	106.663	0.3	7914177
Mo 202.032	49.5112b	ppb	0.1783	0.4	366.345
Na 330.237	2189.24b	ppb	68.4166	3.1	-179.494
Ni 231.604	184.877b	ppb	1.6530	0.9	664.071
Pb 220.353	5049.88b	ppb	4.3193	0.1	8732.29
Sb 206.834	7.8976b	ppb	3.2056	40.6	27.4492
Se 196.026	-1.7755b	ppb	7.9057	445.3	15.1892
Sn 189.925	107.840b	ppb	2.0701	1.9	83.3254
Sr 216.596	573.921b	ppb	1.4847	0.3	8739.05
Ti 334.941	1448.76b	ppb	1.4924	0.1	491060
Tl 190.794	28.6991b	ppb	2.6088	9.1	-20.8713
V 292.401	400.976b	ppb	0.9443	0.2	11706.5
Zn 206.200	8168.52b	ppb	16.8460	0.2	9920.94

680-106803-a-16-a (Samp) **11/5/2014, 2:34:24 AM** **Rack 2, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	3.1697	3.3119	2.9756
Al 308.215	142357	142427	142980
As 188.980	310.746	296.687	301.235
B 249.678	54.4936	54.8823	54.5273
Ba 389.178	3465.77	3470.86	3471.38
Be 313.042	14.5993	14.6010	14.6589
Ca 370.602	120834	120824	121735
Cd 226.502	24.0703	24.5938	24.7848
Co 228.615	102.103	101.502	102.011
Cr 267.716	393.948	393.834	395.846
Cu 324.754	907.620	903.806	913.040
Fe 271.441	373094	373479	373934
K 766.491	17667.0	17652.2	17731.7
Mg 279.078	22318.6	22377.1	22466.6
Mn 257.610	14775.4	14796.9	14835.2
Mo 202.032	27.2952	27.9561	26.8702
Na 330.237	1769.75u	1739.46u	1860.57u
Ni 231.604	199.225	198.949	200.328
Pb 220.353	3189.69	3209.17	3228.22
Sb 206.834	12.1803	13.1391	8.5785
Se 196.026	-4.9711	-1.1474	-8.9996
Sn 189.925	190.472	177.023	178.711
Sr 216.596	779.186	779.023	781.779
Ti 334.941	1665.91	1672.45	1671.41
Tl 190.794	4.7789u	-1.3341u	-1.8034u
V 292.401	382.869	382.622	385.140
Zn 206.200	6884.14	6900.35	6946.07

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.1524	ppb	0.1688	5.4	262.219
Al 308.215	142588	ppb	341.110	0.2	1055815
As 188.980	302.889	ppb	7.1739	2.4	191.862
B 249.678	54.6344	ppb	0.2154	0.4	173.937
Ba 389.178	3469.33	ppb	3.1013	0.1	86527.3
Be 313.042	14.6197	ppb	0.0340	0.2	30071.6
Ca 370.602	121131	ppb	522.7	0.4	360441
Cd 226.502	24.4830	ppb	0.3699	1.5	2922.64
Co 228.615	101.872	ppb	0.3234	0.3	1401.55
Cr 267.716	394.543	ppb	1.1303	0.3	24111.2
Cu 324.754	908.155	ppb	4.6407	0.5	71767.3
Fe 271.441	373502	ppb	420.747	0.1	659033
K 766.491	17683.7	ppb	42.3036	0.2	789892
Mg 279.078	22387.4	ppb	74.5209	0.3	64118.5
Mn 257.610	14802.5	ppb	30.2927	0.2	3782737
Mo 202.032	27.3738	ppb	0.5472	2.0	199.766
Na 330.237	1789.93	ppb	63.0295	3.5	-148.740
Ni 231.604	199.501	ppb	0.7297	0.4	706.392
Pb 220.353	3209.03	ppb	19.2663	0.6	5556.08
Sb 206.834	11.2993	ppb	2.4046	21.3	30.7890
Se 196.026	-5.0394	ppb	3.9266	77.9	8.6768
Sn 189.925	182.069	ppb	7.3262	4.0	143.858
Sr 216.596	779.996	ppb	1.5463	0.2	11561.2

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	1669.92	ppb	3.5123	0.2	565997
Tl 190.794	0.5472	ppb	3.6723	671.2	-51.6430
V 292.401	383.544	ppb	1.3879	0.4	11180.2
Zn 206.200	6910.18	ppb	32.1127	0.5	8392.98

680-106803-a-17-a (Samp) **11/5/2014, 2:38:41 AM** **Rack 2, Tube 55**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-3.3033u	-3.3648u	-3.6563u
Al 308.215	117455	117032	116957
As 188.980	144.297	139.411	142.530
B 249.678	10.7601u	10.4625u	10.0136u
Ba 389.178	1690.23	1683.39	1684.37
Be 313.042	12.2377	12.2127	12.2095
Ca 370.602	28574	28504	28415
Cd 226.502	3.4535	3.2316	3.1217
Co 228.615	83.8793	83.5810	84.3530
Cr 267.716	246.908	246.213	245.898
Cu 324.754	119.967	120.775	119.208
Fe 271.441	295719	295897	293733
K 766.491	7483.91	7479.25	7443.22
Mg 279.078	6912.35	6890.25	6899.06
Mn 257.610	9993.59	9970.30	9955.70
Mo 202.032	10.3230	10.7073	11.0640
Na 330.237	116.761u	78.3811u	252.390u
Ni 231.604	71.6972	71.9923	70.1235
Pb 220.353	465.573	465.405	466.281
Sb 206.834	-3.5997	-3.4389	-8.0402
Se 196.026	-9.2084	1.4562	7.5609
Sn 189.925	33.2046	36.8370	36.3629
Sr 216.596	206.428	205.911	205.214
Ti 334.941	523.166	521.287	521.247
Tl 190.794	-0.7465u	-6.5028u	1.4149u
V 292.401	372.571	372.650	371.583
Zn 206.200	781.452	776.665	779.488

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.4415	ppb	0.1886	5.5	-310.034
Al 308.215	117148	ppb	268.189	0.2	867515
As 188.980	142.079	ppb	2.4738	1.7	87.3980
B 249.678	10.4120	ppb	0.3758	3.6	-401.349
Ba 389.178	1686.00	ppb	3.7017	0.2	42076.8
Be 313.042	12.2200	ppb	0.0154	0.1	25078.9
Ca 370.602	28497	ppb	79.78	0.3	82437
Cd 226.502	3.2689	ppb	0.1690	5.2	1529.95
Co 228.615	83.9378	ppb	0.3893	0.5	1133.47
Cr 267.716	246.340	ppb	0.5168	0.2	15105.8
Cu 324.754	119.983	ppb	0.7837	0.7	9802.40
Fe 271.441	295116	ppb	1201.71	0.4	520728
K 766.491	7468.79	ppb	22.2710	0.3	333769
Mg 279.078	6900.55	ppb	11.1286	0.2	19629.3
Mn 257.610	9973.19	ppb	19.1127	0.2	2548729
Mo 202.032	10.6981	ppb	0.3706	3.5	75.3533

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	149.177	ppb	91.4213	61.3	-51.3742
Ni 231.604	71.2710	ppb	1.0047	1.4	264.135
Pb 220.353	465.753	ppb	0.4651	0.1	830.455
Sb 206.834	-5.0263	ppb	2.6114	52.0	1.2395
Se 196.026	-0.0638	ppb	8.4873	13309.2	8.7915
Sn 189.925	35.4682	ppb	1.9746	5.6	24.3074
Sr 216.596	205.851	ppb	0.6095	0.3	3327.71
Ti 334.941	521.900	ppb	1.0963	0.2	176937
Tl 190.794	-1.9448	ppb	4.0926	210.4	-45.8738
V 292.401	372.268	ppb	0.5944	0.2	10815.3
Zn 206.200	779.202	ppb	2.4066	0.3	933.843

680-106803-a-18-a (Samp) **11/5/2014, 2:42:57 AM** **Rack 2, Tube 56**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-7.7758u	-8.1227u	-7.8025u
Al 308.215	169637	169763	169500
As 188.980	240.741	250.603	238.537
B 249.678	-10.2303u	-10.7002u	-9.1333u
Ba 389.178	18812.4x	18820.5x	18802.8x
Be 313.042	25.1352	25.1434	25.1243
Ca 370.602	34557	34485	34425
Cd 226.502	12.2190	12.5028	13.0609
Co 228.615	437.157	434.152	436.914
Cr 267.716	348.296	349.003	348.568
Cu 324.754	101.575	100.927	101.385
Fe 271.441	596724	596622	592579
K 766.491	8350.01	8358.68	8329.66
Mg 279.078	9825.05	9834.22	9841.28
Mn 257.610	87366.5x	87017.7x	87020.5x
Mo 202.032	17.4537	18.1839	17.1720
Na 330.237	-248.647u	-196.071u	-294.417u
Ni 231.604	197.373	196.987	199.048
Pb 220.353	517.375	529.568	529.430
Sb 206.834	-13.7431	-17.0991u	-16.7694u
Se 196.026	13.5487	9.7962	3.5832
Sn 189.925	24.4255	20.6237	20.0765
Sr 216.596	289.590	289.751	290.508
Ti 334.941	379.316	379.688	378.896
Tl 190.794	40.3003	33.6240	38.5421
V 292.401	706.450	705.426	702.832
Zn 206.200	603.908	601.584	600.691

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-7.9003b	ppb	0.1930	2.4	-343.372
Al 308.215	169634b	ppb	131.353	0.1	1256292
As 188.980	243.294b	ppb	6.4252	2.6	151.915
B 249.678	-10.0213b	ppb	0.8041	8.0	-1472.87
Ba 389.178	18811.9xb	ppb	8.8584	0.0	468443
Be 313.042	25.1343b	ppb	0.0096	0.0	51770.4
Ca 370.602	34489b	ppb	65.94	0.2	98634
Cd 226.502	12.5942b	ppb	0.4283	3.4	3353.09
Co 228.615	436.074b	ppb	1.6689	0.4	5754.37

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	348.622b	ppb	0.3563	0.1	21847.4
Cu 324.754	101.296b	ppb	0.3329	0.3	8468.04
Fe 271.441	595308b	ppb	2363.81	0.4	1050430
K 766.491	8346.12b	ppb	14.8975	0.2	372944
Mg 279.078	9833.51b	ppb	8.1404	0.1	26364.1
Mn 257.610	87134.9xb	ppb	200.605	0.2	22259846
Mo 202.032	17.6032b	ppb	0.5223	3.0	112.223
Na 330.237	-246.378b	ppb	49.2126	20.0	-138.402
Ni 231.604	197.803b	ppb	1.0952	0.6	720.450
Pb 220.353	525.458b	ppb	7.0001	1.3	971.571
Sb 206.834	-15.8705b	ppb	1.8497	11.7	-3.7262
Se 196.026	8.9760b	ppb	5.0331	56.1	35.7714
Sn 189.925	21.7086b	ppb	2.3688	10.9	13.0858
Sr 216.596	289.950b	ppb	0.4905	0.2	4926.12
Ti 334.941	379.300b	ppb	0.3964	0.1	128665
Tl 190.794	37.4888b	ppb	3.4605	9.2	1.3432
V 292.401	704.903b	ppb	1.8650	0.3	20501.4
Zn 206.200	602.061b	ppb	1.6607	0.3	702.346

680-106803-a-19-a (Samp) **11/5/2014, 2:47:14 AM** **Rack 2, Tube 57**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-5.6672u	-4.8693u	-5.2828u
Al 308.215	150699	150387	150792
As 188.980	384.302	387.072	391.228
B 249.678	0.6518u	0.3658u	0.4394u
Ba 389.178	345.785	344.840	346.203
Be 313.042	6.8110	6.8016	6.8409
Ca 370.602	18050	18020	18064
Cd 226.502	2.2656	2.5092	2.2699
Co 228.615	95.8250	96.7918	96.2684
Cr 267.716	242.604	242.198	242.576
Cu 324.754	487.279	485.455	485.789
Fe 271.441	388047	386669	388015
K 766.491	6980.85	6951.08	6963.18
Mg 279.078	6135.09	6120.94	6145.88
Mn 257.610	3469.02	3478.84	3465.86
Mo 202.032	19.0951	19.4501	19.1519
Na 330.237	-140.265u	-177.468u	-7.4185u
Ni 231.604	148.856	150.634	151.183
Pb 220.353	359.563	355.759	358.470
Sb 206.834	-7.0147	-2.4691	-0.1679
Se 196.026	-4.0581	10.6724	4.0013
Sn 189.925	25.0772	24.2877	28.4575
Sr 216.596	69.4345	70.0696	70.7797
Ti 334.941	1090.89	1087.70	1091.79
Tl 190.794	-6.3848u	-4.5135u	-0.8497u
V 292.401	542.572	540.598	542.173
Zn 206.200	633.130	631.757	632.856

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-5.2731	ppb	0.3990	7.6	-517.516
Al 308.215	150626	ppb	211.964	0.1	1115310

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	387.534	ppb	3.4858	0.9	246.973
B 249.678	0.4856	ppb	0.1485	30.6	-793.629
Ba 389.178	345.609	ppb	0.6983	0.2	8777.22
Be 313.042	6.8178	ppb	0.0206	0.3	13915.5
Ca 370.602	18045	ppb	22.74	0.1	49951
Cd 226.502	2.3483	ppb	0.1394	5.9	1905.82
Co 228.615	96.2951	ppb	0.4840	0.5	1315.56
Cr 267.716	242.460	ppb	0.2269	0.1	14885.5
Cu 324.754	486.174	ppb	0.9715	0.2	38615.1
Fe 271.441	387577	ppb	786.424	0.2	683865
K 766.491	6965.04	ppb	14.9721	0.2	311275
Mg 279.078	6133.97	ppb	12.5064	0.2	17550.3
Mn 257.610	3471.24	ppb	6.7682	0.2	888200
Mo 202.032	19.2324	ppb	0.1907	1.0	136.054
Na 330.237	-108.384	ppb	89.3954	82.5	-83.6818
Ni 231.604	150.225	ppb	1.2165	0.8	540.546
Pb 220.353	357.931	ppb	1.9587	0.5	649.370
Sb 206.834	-3.2173	ppb	3.4842	108.3	7.0511
Se 196.026	3.5385	ppb	7.3762	208.5	10.2603
Sn 189.925	25.9408	ppb	2.2150	8.5	16.5377
Sr 216.596	70.0946	ppb	0.6729	1.0	1535.83
Ti 334.941	1090.13	ppb	2.1484	0.2	369498
Tl 190.794	-3.9160	ppb	2.8155	71.9	-64.8442
V 292.401	541.781	ppb	1.0436	0.2	15739.7
Zn 206.200	632.581	ppb	0.7266	0.1	750.607

680-106803-a-20-a (Samp) **11/5/2014, 2:51:30 AM** **Rack 2, Tube 58**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-4.0303u	-3.7375u	-3.8789u
Al 308.215	145116	145499	145409
As 188.980	405.340	408.327	405.970
B 249.678	0.2337u	-0.2333u	0.8554u
Ba 389.178	232.205	234.223	233.724
Be 313.042	7.4342	7.4857	7.4569
Ca 370.602	16753	16744	16723
Cd 226.502	2.2587	2.0168	2.2360
Co 228.615	103.420	103.441	102.316
Cr 267.716	283.512	284.817	283.651
Cu 324.754	355.395	354.262	352.540
Fe 271.441	416171	417822	414047
K 766.491	8260.75	8292.54	8258.87
Mg 279.078	6447.17	6461.27	6451.43
Mn 257.610	2964.69	2979.93	2955.59
Mo 202.032	17.4246	17.4414	17.7690
Na 330.237	18.4783u	82.8413u	-131.583u
Ni 231.604	146.886	146.165	144.556
Pb 220.353	295.549	288.101	288.820
Sb 206.834	-5.8339	-8.2322	-2.6030
Se 196.026	-3.8119	-3.6127	-8.2309
Sn 189.925	29.0030	26.6398	28.3265
Sr 216.596	67.1523	67.9954	66.4467
Ti 334.941	1133.05	1137.51	1134.42

Label	Replicates Concentration		
Tl 190.794	-6.2738u	-2.6296u	-9.5257u
V 292.401	546.302	548.826	546.562
Zn 206.200	615.818	613.030	617.659

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.8822	ppb	0.1464	3.8	-402.602
Al 308.215	145341	ppb	199.871	0.1	1076277
As 188.980	406.546	ppb	1.5741	0.4	259.117
B 249.678	0.2853	ppb	0.5462	191.5	-865.006
Ba 389.178	233.384	ppb	1.0512	0.5	6002.38
Be 313.042	7.4589	ppb	0.0258	0.3	15240.0
Ca 370.602	16740	ppb	15.29	0.1	45679
Cd 226.502	2.1705	ppb	0.1336	6.2	2026.44
Co 228.615	103.059	ppb	0.6436	0.6	1407.39
Cr 267.716	283.993	ppb	0.7167	0.3	17401.8
Cu 324.754	354.066	ppb	1.4375	0.4	28248.1
Fe 271.441	416013	ppb	1892.43	0.5	734039
K 766.491	8270.72	ppb	18.9178	0.2	369577
Mg 279.078	6453.29	ppb	7.2307	0.1	18483.1
Mn 257.610	2966.74	ppb	12.2995	0.4	759435
Mo 202.032	17.5450	ppb	0.1941	1.1	121.525
Na 330.237	-10.0880	ppb	110.029	1090.7	-85.3842
Ni 231.604	145.869	ppb	1.1930	0.8	528.403
Pb 220.353	290.823	ppb	4.1082	1.4	535.958
Sb 206.834	-5.5564	ppb	2.8248	50.8	4.9843
Se 196.026	-5.2185	ppb	2.6107	50.0	6.3610
Sn 189.925	27.9898	ppb	1.2170	4.3	18.2085
Sr 216.596	67.1981	ppb	0.7754	1.2	1533.92
Ti 334.941	1134.99	ppb	2.2808	0.2	384706
Tl 190.794	-6.1431	ppb	3.4499	56.2	-71.8233
V 292.401	547.230	ppb	1.3882	0.3	15907.0
Zn 206.200	615.503	ppb	2.3306	0.4	728.210

CRI (Samp) **11/5/2014, 2:55:47 AM** **Rack 2, Tube 59**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.2820	10.2496	10.4072
Al 308.215	206.370	204.578	205.869
As 188.980	20.1966	19.3877	21.6924
B 249.678	94.1599	93.9258	94.0748
Ba 389.178	9.8712	10.1957	10.3166
Be 313.042	4.0839	4.0569	4.0676
Ca 370.602	518.9	519.4	525.9
Cd 226.502	4.7367	4.9051	4.9287
Co 228.615	10.0803	9.6898	9.7446
Cr 267.716	10.4157	10.1634	10.3418
Cu 324.754	21.6589	21.4047	21.2464
Fe 271.441	76.1070	76.5058	77.1501
K 766.491	1098.39	1089.86	1091.52
Mg 279.078	509.056	501.339	507.209
Mn 257.610	12.1127	12.1299	12.1308
Mo 202.032	9.5369	8.8771	9.5892
Na 330.237	912.227	898.811	1003.34

Label	Replicates Concentration		
Ni 231.604	41.7291	42.0217	42.7870
Pb 220.353	10.2912	9.7166	9.4667
Sb 206.834	17.0392	18.7916	19.8427
Se 196.026	18.8739	20.1975	17.0899
Sn 189.925	51.1597	50.7364	53.0248
Sr 216.596	9.6474	9.2677	10.0333
Ti 334.941	10.3619	10.2905	10.2094
Tl 190.794	24.7614	24.0042	27.2412
V 292.401	10.8774	10.5247	10.4740
Zn 206.200	22.4177	21.2099	20.1290

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.3129	ppb	0.0832	0.8	907.538
Al 308.215	205.605	ppb	0.9244	0.4	2021.39
As 188.980	20.4256	ppb	1.1693	5.7	8.8801
B 249.678	94.0535	ppb	0.1185	0.1	1748.03
Ba 389.178	10.1278	ppb	0.2304	2.3	181.676
Be 313.042	4.0694	ppb	0.0136	0.3	8192.59
Ca 370.602	521.4	ppb	3.895	0.7	1608
Cd 226.502	4.8568	ppb	0.1047	2.2	263.672
Co 228.615	9.8382	ppb	0.2114	2.1	129.483
Cr 267.716	10.3070	ppb	0.1297	1.3	666.559
Cu 324.754	21.4367	ppb	0.2081	1.0	1928.59
Fe 271.441	76.5877	ppb	0.5264	0.7	152.885
K 766.491	1093.26	ppb	4.5244	0.4	49082.9
Mg 279.078	505.868	ppb	4.0294	0.8	1476.30
Mn 257.610	12.1244	ppb	0.0102	0.1	3198.07
Mo 202.032	9.3344	ppb	0.3969	4.3	80.9609
Na 330.237	938.127	ppb	56.8749	6.1	78.8750
Ni 231.604	42.1792	ppb	0.5463	1.3	138.058
Pb 220.353	9.8248	ppb	0.4228	4.3	24.2183
Sb 206.834	18.5578	ppb	1.4163	7.6	24.3719
Se 196.026	18.7205	ppb	1.5595	8.3	11.2248
Sn 189.925	51.6403	ppb	1.2175	2.4	37.4965
Sr 216.596	9.6494	ppb	0.3828	4.0	143.126
Ti 334.941	10.2873	ppb	0.0763	0.7	3511.82
Tl 190.794	25.3356	ppb	1.6932	6.7	22.6852
V 292.401	10.6253	ppb	0.2198	2.1	291.046
Zn 206.200	21.2522	ppb	1.1450	5.4	27.1522

mb 680-356708/1-a (Samp) **11/5/2014, 3:00:05 AM** **Rack 2, Tube 60**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2151u	0.0685	-0.0130u
Al 308.215	5.7298	5.8674	5.9657
As 188.980	-4.2677u	-1.6525u	-5.3284u
B 249.678	-3.1956u	-3.4372u	-4.3413u
Ba 389.178	0.8305	0.8084	0.6972
Be 313.042	-0.0425u	-0.0383u	-0.0437u
Ca 370.602	8.681	12.43	12.04
Cd 226.502	-0.0016	-0.1845u	-0.0550u
Co 228.615	-0.0442u	-0.1658u	0.0148
Cr 267.716	0.1403	0.3041	0.1500

Label	Replicates Concentration		
Cu 324.754	-0.0176u	0.2087	0.1389
Fe 271.441	14.5435	17.5516	14.9967
K 766.491	7.8720	8.3230	8.4042
Mg 279.078	4.4210	3.2684	2.7952
Mn 257.610	0.2767	0.3216	0.2915
Mo 202.032	-0.1493u	0.0132	-0.1680u
Na 330.237	46.1983	-214.390u	-27.0975u
Ni 231.604	0.2523	-0.2513u	-0.1114u
Pb 220.353	-0.3511u	-1.6234u	-0.4999u
Sb 206.834	-0.3573u	-0.0537u	-1.1510u
Se 196.026	-2.8701u	-0.6415u	-2.0675u
Sn 189.925	11.2217	9.7186	5.4481
Sr 216.596	-0.2623u	-0.3570u	-0.5401u
Ti 334.941	0.0590	0.0345	0.0095
Tl 190.794	-0.8232u	0.9107	-0.4642u
V 292.401	-0.4293u	-0.1657u	-0.3857u
Zn 206.200	4.6802	6.3799	5.4650

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0532	ppb	0.1460	274.4	-6.0911
Al 308.215	5.8543	ppb	0.1185	2.0	542.186
As 188.980	-3.7495	ppb	1.8919	50.5	-6.8604
B 249.678	-3.6580	ppb	0.6039	16.5	61.7474
Ba 389.178	0.7787	ppb	0.0714	9.2	-51.8748
Be 313.042	-0.0415	ppb	0.0028	6.8	-307.683
Ca 370.602	11.05	ppb	2.060	18.6	70.56
Cd 226.502	-0.0804	ppb	0.0941	117.1	22.6926
Co 228.615	-0.0651	ppb	0.0921	141.6	0.1386
Cr 267.716	0.1981	ppb	0.0919	46.4	57.1603
Cu 324.754	0.1100	ppb	0.1159	105.4	252.644
Fe 271.441	15.6973	ppb	1.6218	10.3	43.9716
K 766.491	8.1998	ppb	0.2867	3.5	631.827
Mg 279.078	3.4949	ppb	0.8362	23.9	29.7071
Mn 257.610	0.2966	ppb	0.0229	7.7	172.048
Mo 202.032	-0.1014	ppb	0.0997	98.3	8.2054
Na 330.237	-65.0965	ppb	134.386	206.4	30.1046
Ni 231.604	-0.0368	ppb	0.2600	706.2	-5.1150
Pb 220.353	-0.8248	ppb	0.6956	84.3	5.9061
Sb 206.834	-0.5206	ppb	0.5666	108.8	-5.0423
Se 196.026	-1.8597	ppb	1.1287	60.7	1.4007
Sn 189.925	8.7961	ppb	2.9953	34.1	2.5573
Sr 216.596	-0.3865	ppb	0.1412	36.5	2.9151
Ti 334.941	0.0343	ppb	0.0247	72.1	36.5759
Tl 190.794	-0.1256	ppb	0.9152	728.8	-7.3653
V 292.401	-0.3269	ppb	0.1413	43.2	-22.2680
Zn 206.200	5.5084	ppb	0.8507	15.4	8.0244

Cont Calib Verif (CCV) **11/5/2014, 3:04:22 AM** **Rack 3, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	492.914	556.109	506.570
Al 308.215	4676.11	5194.69	4845.77
As 188.980	468.801	514.169	484.562

Label	Replicates Concentration		
B 249.678	466.760	517.242	486.564
Ba 389.178	4791.02	5291.99	4935.99
Be 313.042	475.182	525.563	489.725
Ca 370.602	4729	5221	4899
Cd 226.502	476.836	526.847	493.458
Co 228.615	481.981	533.472	498.799
Cr 267.716	4895.78	5414.69	5056.49
Cu 324.754	4954.49	5534.56	5051.48
Fe 271.441	4731.96	5248.09	4899.96
K 766.491	10193.5	10995.0	10404.3
Mg 279.078	4721.72	5211.91	4867.98
Mn 257.610	4852.08	5345.47	5021.86
Mo 202.032	471.364	518.357	488.038
Na 330.237	7225.28	7873.51	7280.04
Ni 231.604	2367.57	2653.39	2473.98
Pb 220.353	484.266	535.657	507.588
Sb 206.834	912.946	1008.33	947.714
Se 196.026	4747.17	5244.99	4924.16
Sn 189.925	4813.07	5391.09	4961.43
Sr 216.596	2359.97	2605.36	2438.22
Ti 334.941	472.865	522.729	488.045
Tl 190.794	4864.62	5314.76	5011.80
V 292.401	4733.80	5221.06	4887.95
Zn 206.200	2383.91	2607.82	2463.30

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	518.531	ppb	33.2518	6.4	45664.9	103.70618
Al 308.215	4905.52	ppb	264.403	5.4	37359.6	98.11047
As 188.980	489.177	ppb	23.0332	4.7	313.988	97.83546
B 249.678	490.189	ppb	25.4356	5.2	8586.71	98.03773
Ba 389.178	5006.33	ppb	257.787	5.1	124536	100.12668
Be 313.042	496.823	ppb	25.9296	5.2	1027406	99.36469
Ca 370.602	4950	ppb	250.2	5.1	15258	98.99547
Cd 226.502	499.047	ppb	25.4693	5.1	24378.5	99.80944
Co 228.615	504.751	ppb	26.2565	5.2	6602.38	100.95017
Cr 267.716	5122.32	ppb	265.643	5.2	308826	102.44639
Cu 324.754	5180.18	ppb	310.712	6.0	407205	103.60351
Fe 271.441	4960.00	ppb	263.255	5.3	8892.96	99.20003
K 766.491	10530.9	ppb	415.475	3.9	470502	105.30913
Mg 279.078	4933.87	ppb	251.650	5.1	14117.1	98.67738
Mn 257.610	5073.14	ppb	250.659	4.9	1296031	101.46274
Mo 202.032	492.586	ppb	23.8241	4.8	3801.61	98.51726
Na 330.237	7459.61	ppb	359.496	4.8	334.334	99.46145
Ni 231.604	2498.32	ppb	144.455	5.8	8468.24	99.93262
Pb 220.353	509.171	ppb	25.7320	5.1	888.163	101.83411
Sb 206.834	956.331	ppb	48.2741	5.0	1528.32	95.63311
Se 196.026	4972.11	ppb	252.354	5.1	2376.15	99.44215
Sn 189.925	5055.20	ppb	300.202	5.9	4117.83	101.10396
Sr 216.596	2467.85	ppb	125.351	5.1	34697.5	98.71401
Ti 334.941	494.546	ppb	25.5596	5.2	167616	98.90926
Tl 190.794	5063.73	ppb	229.516	4.5	5977.09	101.27453
V 292.401	4947.60	ppb	249.044	5.0	142097	98.95210
Zn 206.200	2485.01	ppb	113.522	4.6	3008.41	99.40046

Cont Calib Blank (CCB) **11/5/2014, 3:08:39 AM** **Rack 3, Tube 2**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0472	0.0037	-0.1004u
Al 308.215	-0.1527u	0.7747	1.9989
As 188.980	0.7059	-1.6472u	-2.7106u
B 249.678	1.9708	0.7697	0.5902
Ba 389.178	0.5634	1.0938	1.1805
Be 313.042	-0.0198u	-0.0045u	-0.0011u
Ca 370.602	3.048	0.4422	3.872
Cd 226.502	-0.0544u	0.0695	-0.0780u
Co 228.615	-0.3741u	0.0164	-0.1349u
Cr 267.716	0.2399	0.2450	0.3030
Cu 324.754	0.2898	0.4237	0.3825
Fe 271.441	-1.3497u	3.0714	2.9515
K 766.491	0.6214	0.6384	0.8085
Mg 279.078	3.3324	1.0857	2.7288
Mn 257.610	0.3232	0.5150	0.5404
Mo 202.032	-0.0288u	0.6827	0.2346
Na 330.237	50.0111	-43.2279u	-37.6188u
Ni 231.604	0.5890	-0.1592u	-0.1719u
Pb 220.353	0.9596	-1.6155u	0.6982
Sb 206.834	-0.2701u	3.9013	1.8498
Se 196.026	2.1930	-2.9137u	4.0995
Sn 189.925	1.1343	-0.2987u	-0.5632u
Sr 216.596	-0.1858u	-0.1588u	0.2656
Ti 334.941	0.0207	0.0358	0.0406
Tl 190.794	0.5152	-1.9943u	-1.4232u
V 292.401	0.3478	0.7491	0.3524
Zn 206.200	0.1189	0.7454	1.0389

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0165	ppb	0.0758	460.6	-2.8486	-0.01646
Al 308.215	0.8736	ppb	1.0792	123.5	505.414	0.87364
As 188.980	-1.2173	ppb	1.7483	143.6	-5.2116	-1.21727
B 249.678	1.1102	ppb	0.7507	67.6	144.097	1.11023
Ba 389.178	0.9459	ppb	0.3341	35.3	-47.7205	0.94589
Be 313.042	-0.0085	ppb	0.0100	117.9	-239.448	-0.00847
Ca 370.602	2.454	ppb	1.790	73.0	44.91	2.45412
Cd 226.502	-0.0210	ppb	0.0793	377.9	25.5248	-0.02098
Co 228.615	-0.1642	ppb	0.1969	119.9	-1.1642	-0.16420
Cr 267.716	0.2626	ppb	0.0351	13.4	61.0341	0.26262
Cu 324.754	0.3653	ppb	0.0686	18.8	272.710	0.36533
Fe 271.441	1.5577	ppb	2.5186	161.7	19.0141	1.55770
K 766.491	0.6894	ppb	0.1035	15.0	296.469	0.68943
Mg 279.078	2.3823	ppb	1.1627	48.8	26.5011	2.38229
Mn 257.610	0.4595	ppb	0.1187	25.8	213.596	0.45953
Mo 202.032	0.2961	ppb	0.3597	121.5	11.2712	0.29614
Na 330.237	-10.2786	ppb	52.2876	508.7	32.9067	-10.27855
Ni 231.604	0.0859	ppb	0.4357	506.9	-4.6996	0.08595
Pb 220.353	0.0141	ppb	1.4173	10065.8	7.3480	0.01408
Sb 206.834	1.8270	ppb	2.0858	114.2	-1.4290	1.82698
Se 196.026	1.1263	ppb	3.6262	322.0	2.8254	1.12629
Sn 189.925	0.0908	ppb	0.9134	1005.7	-4.5417	0.09081
Sr 216.596	-0.0263	ppb	0.2532	962.4	7.9610	-0.02631

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.0324	ppb	0.0104	32.1	35.9171	0.03239
Tl 190.794	-0.9674	ppb	1.3154	136.0	-8.3573	-0.96745
V 292.401	0.4831	ppb	0.2304	47.7	0.9667	0.48310
Zn 206.200	0.6344	ppb	0.4700	74.1	2.0915	0.63439

lcs 680-356708/2-a (Samp) **11/5/2014, 3:12:56 AM** **Rack 3, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.9391	51.2607	50.8469
Al 308.215	4935.20	4941.26	4932.50
As 188.980	98.9810	98.9629	97.6005
B 249.678	188.999	190.160	190.403
Ba 389.178	101.066	101.465	100.793
Be 313.042	51.0082	51.0888	50.8076
Ca 370.602	5040	5034	4983
Cd 226.502	50.9731	50.9133	50.6531
Co 228.615	51.3944	50.7692	50.7624
Cr 267.716	103.880	104.033	103.484
Cu 324.754	103.432	103.318	103.542
Fe 271.441	5102.40	5111.59	5082.77
K 766.491	5239.92	5248.38	5238.08
Mg 279.078	4903.76	4916.94	4889.94
Mn 257.610	528.236	529.051	526.992
Mo 202.032	99.6437	99.9422	99.8724
Na 330.237	4663.68	4686.82	4843.86
Ni 231.604	100.783	101.259	101.226
Pb 220.353	511.259	508.613	505.837
Sb 206.834	51.6892	51.7389	47.0782
Se 196.026	104.129	101.932	104.166
Sn 189.925	205.406	208.714	204.330
Sr 216.596	99.3271	99.2996	99.7019
Ti 334.941	102.118	102.522	102.042
Tl 190.794	39.0136	42.3852	38.0791
V 292.401	101.248	101.444	100.894
Zn 206.200	105.580	106.183	106.997

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.0155	ppb	0.2172	0.4	4494.83
Al 308.215	4936.32	ppb	4.4858	0.1	37034.4
As 188.980	98.5148	ppb	0.7918	0.8	59.7183
B 249.678	189.854	ppb	0.7505	0.4	3389.64
Ba 389.178	101.108	ppb	0.3380	0.3	2456.33
Be 313.042	50.9682	ppb	0.1448	0.3	105168
Ca 370.602	5019	ppb	31.35	0.6	15117
Cd 226.502	50.8465	ppb	0.1702	0.3	2528.65
Co 228.615	50.9753	ppb	0.3629	0.7	666.877
Cr 267.716	103.799	ppb	0.2835	0.3	6307.20
Cu 324.754	103.431	ppb	0.1120	0.1	8375.82
Fe 271.441	5098.92	ppb	14.7225	0.3	9020.90
K 766.491	5242.13	ppb	5.4943	0.1	234342
Mg 279.078	4903.55	ppb	13.5008	0.3	14129.3
Mn 257.610	528.093	ppb	1.0368	0.2	135054
Mo 202.032	99.8194	ppb	0.1561	0.2	778.437

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	4731.45	ppb	98.0308	2.1	261.434
Ni 231.604	101.089	ppb	0.2659	0.3	338.237
Pb 220.353	508.570	ppb	2.7116	0.5	882.591
Sb 206.834	50.1688	ppb	2.6766	5.3	72.8757
Se 196.026	103.409	ppb	1.2793	1.2	51.8302
Sn 189.925	206.150	ppb	2.2846	1.1	163.498
Sr 216.596	99.4429	ppb	0.2247	0.2	1413.92
Ti 334.941	102.228	ppb	0.2581	0.3	34676.2
Tl 190.794	39.8260	ppb	2.2651	5.7	39.2963
V 292.401	101.195	ppb	0.2786	0.3	2881.40
Zn 206.200	106.253	ppb	0.7108	0.7	130.047

680-106803-a-30-a (Samp) **11/5/2014, 3:17:14 AM** **Rack 3, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2521u	-0.6415u	-0.3155u
Al 308.215	138128	137823	136685
As 188.980	626.992	627.942	619.346
B 249.678	46.8713u	46.2484u	46.3106u
Ba 389.178	1890.12	1885.56	1868.11
Be 313.042	14.5063	14.4781	14.3671
Ca 370.602	196202	196336	194356
Cd 226.502	14.0158	13.2732	13.2903
Co 228.615	78.2648	76.7031	76.5359
Cr 267.716	371.203	371.240	367.625
Cu 324.754	473.111	475.840	474.049
Fe 271.441	359315	357799	354604
K 766.491	12612.2	12571.6	12463.0
Mg 279.078	22060.3	21995.6	21812.1
Mn 257.610	13371.5	13342.7	13233.9
Mo 202.032	18.7811	19.0093	19.1943
Na 330.237	713.750u	589.241u	503.918u
Ni 231.604	181.083	180.756	179.320
Pb 220.353	1467.51	1459.16	1454.82
Sb 206.834	-0.7724	0.3834	-2.4765
Se 196.026	7.2572	-1.3589	-1.9334
Sn 189.925	84.6826	88.0821	89.0967
Sr 216.596	516.277	514.607	511.245
Ti 334.941	1597.51	1590.08	1579.21
Tl 190.794	-2.2350u	-5.0561u	0.7828u
V 292.401	342.220	341.859	339.255
Zn 206.200	2560.91	2553.25	2540.02

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4031	ppb	0.2089	51.8	-47.0583
Al 308.215	137545	ppb	760.401	0.6	1018486
As 188.980	624.760	ppb	4.7127	0.8	401.503
B 249.678	46.4768	ppb	0.3431	0.7	72.9044
Ba 389.178	1881.26	ppb	11.6182	0.6	46997.3
Be 313.042	14.4505	ppb	0.0736	0.5	29750.1
Ca 370.602	195631	ppb	1107	0.6	584422
Cd 226.502	13.5264	ppb	0.4239	3.1	2312.42
Co 228.615	77.1679	ppb	0.9536	1.2	1075.69

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	370.023	ppb	2.0768	0.6	22616.5
Cu 324.754	474.333	ppb	1.3867	0.3	37673.8
Fe 271.441	357239	ppb	2404.95	0.7	630335
K 766.491	12549.0	ppb	77.1607	0.6	560613
Mg 279.078	21956.0	ppb	128.761	0.6	62910.6
Mn 257.610	13316.0	ppb	72.5714	0.5	3402972
Mo 202.032	18.9949	ppb	0.2070	1.1	136.087
Na 330.237	602.303	ppb	105.524	17.5	-91.4809
Ni 231.604	180.386	ppb	0.9377	0.5	640.056
Pb 220.353	1460.50	ppb	6.4498	0.4	2546.34
Sb 206.834	-0.9552	ppb	1.4387	150.6	11.0879
Se 196.026	1.3216	ppb	5.1484	389.6	11.1227
Sn 189.925	87.2871	ppb	2.3119	2.6	66.5649
Sr 216.596	514.043	ppb	2.5626	0.5	7824.01
Ti 334.941	1588.93	ppb	9.2023	0.6	538550
Tl 190.794	-2.1694	ppb	2.9200	134.6	-53.3763
V 292.401	341.112	ppb	1.6178	0.5	9953.45
Zn 206.200	2551.39	ppb	10.5692	0.4	3087.64

680-106803-a-30-aSD^ (Samp) **11/5/2014, 3:21:31 AM** **Rack 3, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3083u	-0.6152u	-0.1894u
Al 308.215	27898.6	27867.8	27926.3
As 188.980	129.874	129.728	127.254
B 249.678	6.9004u	6.9121u	7.0866u
Ba 389.178	398.245	398.740	399.364
Be 313.042	3.0235	3.0106	3.0322
Ca 370.602	41108	40846	41179
Cd 226.502	2.4705	2.2255	2.2954
Co 228.615	16.5194	16.3630	16.8149
Cr 267.716	78.9865	78.7955	79.0124
Cu 324.754	94.6742	94.4351	95.0462
Fe 271.441	77995.6	77789.8	78255.0
K 766.491	2340.08	2334.96	2347.91
Mg 279.078	4704.35	4696.01	4709.97
Mn 257.610	2929.87	2925.15	2930.95
Mo 202.032	3.8255	4.0299	3.4553
Na 330.237	180.264u	191.841u	333.024u
Ni 231.604	38.4136	37.2704	38.9574
Pb 220.353	316.095	317.434	318.163
Sb 206.834	-0.0666	-0.2307	2.8082
Se 196.026	0.7204	-1.3425	-4.1891u
Sn 189.925	15.0829	20.4492	17.5080
Sr 216.596	110.880	110.324	110.671
Ti 334.941	340.885	340.313	342.205
Tl 190.794	-1.3725u	-0.3904u	-2.1809u
V 292.401	71.9541	72.5696	72.2811
Zn 206.200	549.802	551.833	555.329

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3710	ppb	0.2197	59.2	-36.1626
Al 308.215	27897.6	ppb	29.2314	0.1	206982

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	128.952	ppb	1.4725	1.1	79.3321
B 249.678	6.9664	ppb	0.1042	1.5	58.5947
Ba 389.178	398.783	ppb	0.5607	0.1	9907.61
Be 313.042	3.0221	ppb	0.0108	0.4	6046.54
Ca 370.602	41044	ppb	175.3	0.4	122612
Cd 226.502	2.3304	ppb	0.1262	5.4	495.385
Co 228.615	16.5658	ppb	0.2295	1.4	231.814
Cr 267.716	78.9315	ppb	0.1185	0.2	4861.45
Cu 324.754	94.7185	ppb	0.3080	0.3	7721.29
Fe 271.441	78013.5	ppb	233.096	0.3	137664
K 766.491	2340.99	ppb	6.5230	0.3	104797
Mg 279.078	4703.44	ppb	7.0226	0.1	13491.2
Mn 257.610	2928.65	ppb	3.0823	0.1	748503
Mo 202.032	3.7702	ppb	0.2913	7.7	33.8317
Na 330.237	235.043	ppb	85.0513	36.2	11.3609
Ni 231.604	38.2138	ppb	0.8611	2.3	131.876
Pb 220.353	317.231	ppb	1.0493	0.3	558.888
Sb 206.834	0.8370	ppb	1.7091	204.2	0.7007
Se 196.026	-1.6037	ppb	2.4652	153.7	3.3191
Sn 189.925	17.6801	ppb	2.6873	15.2	9.8019
Sr 216.596	110.625	ppb	0.2808	0.3	1691.81
Ti 334.941	341.134	ppb	0.9705	0.3	115643
Tl 190.794	-1.3146	ppb	0.8966	68.2	-18.2818
V 292.401	72.2683	ppb	0.3080	0.4	2099.62
Zn 206.200	552.321	ppb	2.7958	0.5	669.411

680-106803-a-30-aPDS (Samp) **11/5/2014, 3:25:48 AM** **Rack 3, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	95.3771	95.3002	95.2196
Al 308.215	138598	138761	139205
As 188.980	704.986	714.067	716.431
B 249.678	225.129	225.492	225.694
Ba 389.178	1944.86	1948.97	1946.74
Be 313.042	103.727	103.921	104.009
Ca 370.602	202891	202557	204235
Cd 226.502	99.8625	100.010	100.056
Co 228.615	165.700	164.745	164.036
Cr 267.716	456.710	458.590	458.304
Cu 324.754	572.892	572.197	570.580
Fe 271.441	363546	363052	363439
K 766.491	23585.2	23676.6	23629.9
Mg 279.078	30238.2	30364.1	30408.6
Mn 257.610	14068.8	14101.2	14119.1
Mo 202.032	107.303	107.469	108.090
Na 330.237	9488.08	9289.21	9331.81
Ni 231.604	267.557	266.235	268.260
Pb 220.353	1527.84	1541.53	1533.49
Sb 206.834	96.6867	96.7027	86.3410
Se 196.026	88.3267	87.4338	92.8999
Sn 189.925	171.939	174.746	169.298
Sr 216.596	595.738	596.786	597.150
Ti 334.941	1671.40	1672.18	1668.56

Label	Replicates Concentration		
Tl 190.794	13.1613u	11.6597u	12.1893u
V 292.401	426.328	427.985	430.009
Zn 206.200	2600.17	2615.51	2620.38

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	95.2990	ppb	0.0788	0.1	8390.42
Al 308.215	138855	ppb	314.403	0.2	1028195
As 188.980	711.828	ppb	6.0422	0.8	458.146
B 249.678	225.438	ppb	0.2863	0.1	3147.53
Ba 389.178	1946.86	ppb	2.0569	0.1	48647.2
Be 313.042	103.886	ppb	0.1441	0.1	214690
Ca 370.602	203228	ppb	887.7	0.4	607229
Cd 226.502	99.9761	ppb	0.1010	0.1	6555.74
Co 228.615	164.827	ppb	0.8347	0.5	2220.97
Cr 267.716	457.868	ppb	1.0131	0.2	27918.5
Cu 324.754	571.889	ppb	1.1861	0.2	45344.3
Fe 271.441	363346	ppb	259.967	0.1	641122
K 766.491	23630.6	ppb	45.6951	0.2	1055439
Mg 279.078	30336.9	ppb	88.3672	0.3	87031.7
Mn 257.610	14096.3	ppb	25.4923	0.2	3602390
Mo 202.032	107.621	ppb	0.4144	0.4	819.159
Na 330.237	9369.70	ppb	104.714	1.1	335.460
Ni 231.604	267.351	ppb	1.0283	0.4	935.388
Pb 220.353	1534.29	ppb	6.8751	0.4	2673.78
Sb 206.834	93.2435	ppb	5.9777	6.4	156.273
Se 196.026	89.5534	ppb	2.9323	3.3	53.5000
Sn 189.925	171.994	ppb	2.7243	1.6	135.646
Sr 216.596	596.558	ppb	0.7334	0.1	8995.13
Ti 334.941	1670.72	ppb	1.9050	0.1	566280
Tl 190.794	12.3368	ppb	0.7616	6.2	-36.6311
V 292.401	428.107	ppb	1.8435	0.4	12441.9
Zn 206.200	2612.02	ppb	10.5463	0.4	3160.82

680-106803-a-30-b ms (Samp) **11/5/2014, 3:30:06 AM** **Rack 3, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.3381	50.3179	50.4275
Al 308.215	125430	125211	125462
As 188.980	828.113	835.064	841.983
B 249.678	186.461	188.469	189.186
Ba 389.178	1852.12	1845.47	1853.87
Be 313.042	57.5254	57.3232	57.5732
Ca 370.602	77424	77168	77524
Cd 226.502	59.8853	59.8879	59.8683
Co 228.615	179.958	177.644	176.419
Cr 267.716	522.415	522.004	524.149
Cu 324.754	916.724	918.600	926.831
Fe 271.441	726468	727108	729487
K 766.491	15682.6	15680.6	15648.2
Mg 279.078	15165.0	15115.9	15166.3
Mn 257.610	15218.5	15156.2	15246.3
Mo 202.032	116.854	115.204	117.158
Na 330.237	5745.27	5692.88	5928.63

Label	Replicates Concentration		
Ni 231.604	350.628	345.987	348.024
Pb 220.353	2157.33	2152.01	2157.58
Sb 206.834	14.8006	15.3014	13.9696
Se 196.026	79.1535	82.1096	78.3333
Sn 189.925	285.805	275.672	279.642
Sr 216.596	558.347	556.962	559.398
Ti 334.941	1505.08	1523.95	1532.83
Tl 190.794	26.7714u	26.5508u	27.2871u
V 292.401	566.941	565.502	566.619
Zn 206.200	2649.89	2632.56	2648.84

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.3612	ppb	0.0583	0.1	4371.66
Al 308.215	125367	ppb	136.582	0.1	929139
As 188.980	835.054	ppb	6.9351	0.8	535.914
B 249.678	188.039	ppb	1.4127	0.8	1630.18
Ba 389.178	1850.48	ppb	4.4342	0.2	46448.5
Be 313.042	57.4739	ppb	0.1327	0.2	118657
Ca 370.602	77372	ppb	183.6	0.2	224418
Cd 226.502	59.8805	ppb	0.0107	0.0	6258.71
Co 228.615	178.007	ppb	1.7971	1.0	2417.43
Cr 267.716	522.856	ppb	1.1387	0.2	32034.3
Cu 324.754	920.718	ppb	5.3763	0.6	72919.0
Fe 271.441	727688	ppb	1590.48	0.2	1283961
K 766.491	15670.4	ppb	19.2955	0.1	699997
Mg 279.078	15149.1	ppb	28.6892	0.2	43268.6
Mn 257.610	15207.0	ppb	46.1689	0.3	3887234
Mo 202.032	116.405	ppb	1.0511	0.9	867.395
Na 330.237	5788.93	ppb	123.792	2.1	71.5474
Ni 231.604	348.213	ppb	2.3265	0.7	1243.62
Pb 220.353	2155.64	ppb	3.1473	0.1	3769.87
Sb 206.834	14.6905	ppb	0.6727	4.6	48.3971
Se 196.026	79.8655	ppb	1.9863	2.5	54.2680
Sn 189.925	280.373	ppb	5.1059	1.8	224.025
Sr 216.596	558.236	ppb	1.2216	0.2	8900.51
Ti 334.941	1520.62	ppb	14.1720	0.9	515437
Tl 190.794	26.8698	ppb	0.3779	1.4	-71.3593
V 292.401	566.354	ppb	0.7550	0.1	16559.0
Zn 206.200	2643.76	ppb	9.7170	0.4	3180.49

680-106803-a-30-c ms (Samp) **11/5/2014, 3:34:23 AM** **Rack 3, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	48.1069	47.5530	47.4392
Al 308.215	140616	140808	141126
As 188.980	717.426	698.446	696.600
B 249.678	200.822	203.304	203.690
Ba 389.178	3127.85	3120.42	3132.53
Be 313.042	59.9254	59.8695	60.0027
Ca 370.602	123640	122783	123117
Cd 226.502	57.9430	58.5672	59.4982
Co 228.615	176.797	177.788	177.569
Cr 267.716	481.099	481.010	481.768

Label	Replicates Concentration		
Cu 324.754	654.136	649.952	652.088
Fe 271.441	443151	445522	445995
K 766.491	17798.9	17788.4	17790.5
Mg 279.078	27379.1	27340.7	27466.7
Mn 257.610	31238.1x	31510.8x	31506.0x
Mo 202.032	112.651	111.603	111.629
Na 330.237	5891.44	5974.91	5800.93
Ni 231.604	280.144	277.864	279.315
Pb 220.353	2121.05	2125.91	2125.34
Sb 206.834	17.9808	18.1041	25.9597
Se 196.026	102.357	87.4790	91.4675
Sn 189.925	293.435	295.795	302.507
Sr 216.596	637.488	639.427	641.382
Ti 334.941	2843.12	2841.21	2843.91
Tl 190.794	37.1152u	43.4751	45.2530
V 292.401	648.305	646.724	646.842
Zn 206.200	2946.54	2938.34	2964.49

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.6997b	ppb	0.3572	0.7	4271.92
Al 308.215	140850b	ppb	257.420	0.2	1043129
As 188.980	704.157b	ppb	11.5280	1.6	452.648
B 249.678	202.605b	ppb	1.5561	0.8	2557.05
Ba 389.178	3126.93b	ppb	6.1096	0.2	78059.0
Be 313.042	59.9326b	ppb	0.0669	0.1	123770
Ca 370.602	123180b	ppb	432.1	0.4	366686
Cd 226.502	58.6695b	ppb	0.7826	1.3	4913.80
Co 228.615	177.385b	ppb	0.5208	0.3	2419.47
Cr 267.716	481.292b	ppb	0.4143	0.1	29468.7
Cu 324.754	652.059b	ppb	2.0924	0.3	51677.8
Fe 271.441	444889b	ppb	1523.61	0.3	785000
K 766.491	17792.6b	ppb	5.5923	0.0	794757
Mg 279.078	27395.5b	ppb	64.5776	0.2	78179.6
Mn 257.610	31418.3xb	ppb	156.076	0.5	8027329
Mo 202.032	111.961b	ppb	0.5979	0.5	848.023
Na 330.237	5889.09b	ppb	87.0145	1.5	133.946
Ni 231.604	279.108b	ppb	1.1540	0.4	982.850
Pb 220.353	2124.10b	ppb	2.6596	0.1	3697.68
Sb 206.834	20.6815b	ppb	4.5714	22.1	47.3231
Se 196.026	93.7678b	ppb	7.7010	8.2	60.7949
Sn 189.925	297.246b	ppb	4.7068	1.6	237.785
Sr 216.596	639.432b	ppb	1.9469	0.3	9676.09
Ti 334.941	2842.75b	ppb	1.3892	0.0	963438
Tl 190.794	41.9477b	ppb	4.2785	10.2	-3.5763
V 292.401	647.291b	ppb	0.8807	0.1	18801.4
Zn 206.200	2949.79b	ppb	13.3751	0.5	3567.72

680-106803-a-55-a (Samp) **11/5/2014, 3:38:40 AM** **Rack 3, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2885u	0.3029u	0.4009
Al 308.215	150661	150641	151066
As 188.980	488.289	477.105	472.888

Label	Replicates Concentration		
B 249.678	48.7753u	48.5882u	48.9079u
Ba 389.178	2250.78	2247.39	2257.25
Be 313.042	14.0685	14.0312	14.0991
Ca 370.602	114844	114723	115015
Cd 226.502	12.5094	12.0770	12.9935
Co 228.615	136.687	137.675	135.134
Cr 267.716	384.168	383.640	384.336
Cu 324.754	464.902	462.645	462.387
Fe 271.441	636983	635218	640195
K 766.491	13297.0	13261.6	13282.9
Mg 279.078	20829.6	20830.4	20881.7
Mn 257.610	19206.0	19180.5	19252.7
Mo 202.032	24.4758	24.9792	25.3944
Na 330.237	1040.95u	1139.86u	1076.03u
Ni 231.604	131.990	131.635	134.276
Pb 220.353	2505.76	2510.37	2516.35
Sb 206.834	-7.6444	-3.8800	-4.2245
Se 196.026	-5.8794	-1.2260	-18.2090
Sn 189.925	90.8183	88.3157	97.0833
Sr 216.596	552.269	549.656	551.122
Ti 334.941	1628.11	1633.63	1646.74
Tl 190.794	-11.1073u	-2.2644u	-5.3151u
V 292.401	604.580	604.759	607.232
Zn 206.200	3418.94	3428.81	3428.66

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1385	ppb	0.3730	269.4	-18.0878
Al 308.215	150789	ppb	239.928	0.2	1116990
As 188.980	479.428	ppb	7.9591	1.7	305.211
B 249.678	48.7571	ppb	0.1606	0.3	-558.048
Ba 389.178	2251.81	ppb	5.0109	0.2	56388.6
Be 313.042	14.0663	ppb	0.0340	0.2	28928.8
Ca 370.602	114861	ppb	146.6	0.1	338362
Cd 226.502	12.5266	ppb	0.4585	3.7	3539.76
Co 228.615	136.499	ppb	1.2810	0.9	1873.52
Cr 267.716	384.048	ppb	0.3632	0.1	23640.2
Cu 324.754	463.311	ppb	1.3839	0.3	36933.5
Fe 271.441	637466	ppb	2523.29	0.4	1124770
K 766.491	13280.5	ppb	17.8503	0.1	593278
Mg 279.078	20847.2	ppb	29.8727	0.1	59582.5
Mn 257.610	19213.1	ppb	36.6082	0.2	4910276
Mo 202.032	24.9498	ppb	0.4600	1.8	166.797
Na 330.237	1085.61	ppb	50.1448	4.6	-157.629
Ni 231.604	132.634	ppb	1.4334	1.1	504.094
Pb 220.353	2510.83	ppb	5.3120	0.2	4374.88
Sb 206.834	-5.2496	ppb	2.0811	39.6	14.3720
Se 196.026	-8.4381	ppb	8.7759	104.0	11.8184
Sn 189.925	92.0724	ppb	4.5164	4.9	70.4667
Sr 216.596	551.016	ppb	1.3097	0.2	8698.42
Ti 334.941	1636.16	ppb	9.5683	0.6	554590
Tl 190.794	-6.2289	ppb	4.4917	72.1	-94.8709
V 292.401	605.524	ppb	1.4825	0.2	17675.4
Zn 206.200	3425.47	ppb	5.6564	0.2	4137.25

680-106803-a-55-b ms (Samp) **11/5/2014, 3:42:57 AM** **Rack 3, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.0844	48.2696	48.5135
Al 308.215	166130	166304	166588
As 188.980	643.694	639.788	649.462
B 249.678	198.572	198.588	199.102
Ba 389.178	2806.14	2815.62	2815.83
Be 313.042	58.9348	59.0779	59.0536
Ca 370.602	122954	123096	123000
Cd 226.502	57.4571	57.6667	57.5301
Co 228.615	179.656	179.604	178.793
Cr 267.716	433.158	435.528	435.935
Cu 324.754	572.166	571.189	576.091
Fe 271.441	633463	636723	634697
K 766.491	19656.1	19693.3	19682.4
Mg 279.078	21612.9	21644.6	21675.4
Mn 257.610	22535.8	22582.3	22470.2
Mo 202.032	110.055	111.015	110.314
Na 330.237	5842.73	5889.79	5789.24
Ni 231.604	227.708	228.905	225.858
Pb 220.353	3447.97	3456.78	3471.59
Sb 206.834	14.2379	11.4495	10.6951
Se 196.026	74.0198	69.1220	83.0115
Sn 189.925	308.456	306.939	309.300
Sr 216.596	627.893	628.431	629.867
Ti 334.941	1817.29	1811.75	1821.67
Tl 190.794	34.8932u	33.6387u	29.3182u
V 292.401	671.825	672.488	671.767
Zn 206.200	3929.96	3955.43	3943.79

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.6225	ppb	0.4182	0.9	4272.00
Al 308.215	166341	ppb	231.195	0.1	1232016
As 188.980	644.314	ppb	4.8669	0.8	412.726
B 249.678	198.754	ppb	0.3016	0.2	2035.92
Ba 389.178	2812.53	ppb	5.5336	0.2	70342.7
Be 313.042	59.0221	ppb	0.0766	0.1	121887
Ca 370.602	123017	ppb	72.64	0.1	363071
Cd 226.502	57.5513	ppb	0.1064	0.2	5724.73
Co 228.615	179.351	ppb	0.4842	0.3	2434.92
Cr 267.716	434.873	ppb	1.4997	0.3	26720.5
Cu 324.754	573.149	ppb	2.5947	0.5	45565.2
Fe 271.441	634961	ppb	1645.76	0.3	1120357
K 766.491	19677.2	ppb	19.1227	0.1	878912
Mg 279.078	21644.3	ppb	31.2744	0.1	61799.4
Mn 257.610	22529.4	ppb	56.3298	0.3	5757395
Mo 202.032	110.461	ppb	0.4969	0.4	826.325
Na 330.237	5840.59	ppb	50.3111	0.9	62.5077
Ni 231.604	227.490	ppb	1.5351	0.7	825.525
Pb 220.353	3458.78	ppb	11.9364	0.3	6005.97
Sb 206.834	12.1275	ppb	1.8662	15.4	40.2497
Se 196.026	75.3845	ppb	7.0446	9.3	52.5765
Sn 189.925	308.232	ppb	1.1964	0.4	246.743
Sr 216.596	628.730	ppb	1.0205	0.2	9789.41

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	1816.91	ppb	4.9713	0.3	615839
Tl 190.794	32.6167	ppb	2.9246	9.0	-46.9552
V 292.401	672.026	ppb	0.4006	0.1	19574.2
Zn 206.200	3943.06	ppb	12.7523	0.3	4767.28

680-106803-a-55-c ms (Samp) **11/5/2014, 3:47:15 AM** **Rack 3, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.2534	50.8596	50.3228
Al 308.215	168284	168371	168585
As 188.980	694.113	707.088	692.201
B 249.678	214.491	216.831	217.544
Ba 389.178	2774.39	2782.61	2786.98
Be 313.042	60.9209	61.1285	60.9739
Ca 370.602	131635	131548	131720
Cd 226.502	60.1478	61.3692	60.5399
Co 228.615	176.906	178.249	176.975
Cr 267.716	394.422	395.449	394.376
Cu 324.754	568.658	574.403	576.167
Fe 271.441	680823	688251	685282
K 766.491	21626.4	21658.1	21663.2
Mg 279.078	25264.1	25367.4	25331.9
Mn 257.610	21988.1	22024.4	21994.2
Mo 202.032	113.262	113.423	113.300
Na 330.237	6236.24	6446.07	6316.23
Ni 231.604	245.213	248.400	248.599
Pb 220.353	3864.83	3864.91	3869.72
Sb 206.834	7.0558	10.7979	10.9382
Se 196.026	87.0942	71.9607	80.8368
Sn 189.925	451.536	454.226	444.608
Sr 216.596	695.908	701.086	699.619
Ti 334.941	1853.76	1861.13	1859.90
Tl 190.794	29.2604u	33.9989u	30.4701u
V 292.401	670.100	672.583	672.110
Zn 206.200	4578.87	4606.51	4608.50

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.4786	ppb	0.3318	0.7	4421.37
Al 308.215	168413	ppb	154.870	0.1	1247436
As 188.980	697.801	ppb	8.0998	1.2	447.255
B 249.678	216.289	ppb	1.5974	0.7	2219.32
Ba 389.178	2781.33	ppb	6.3917	0.2	69602.4
Be 313.042	61.0078	ppb	0.1079	0.2	125995
Ca 370.602	131634	ppb	86.00	0.1	388338
Cd 226.502	60.6856	ppb	0.6236	1.0	6104.39
Co 228.615	177.377	ppb	0.7560	0.4	2413.66
Cr 267.716	394.749	ppb	0.6069	0.2	24325.3
Cu 324.754	573.076	ppb	3.9265	0.7	45582.7
Fe 271.441	684785	ppb	3738.74	0.5	1208266
K 766.491	21649.2	ppb	19.9202	0.1	966967
Mg 279.078	25321.1	ppb	52.4834	0.2	72400.1
Mn 257.610	22002.2	ppb	19.4684	0.1	5622941
Mo 202.032	113.328	ppb	0.0839	0.1	845.793

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	6332.85	ppb	105.898	1.7	57.8531
Ni 231.604	247.404	ppb	1.9000	0.8	897.731
Pb 220.353	3866.48	ppb	2.7993	0.1	6710.82
Sb 206.834	9.5973	ppb	2.2021	22.9	37.5824
Se 196.026	79.9639	ppb	7.6044	9.5	55.3378
Sn 189.925	450.123	ppb	4.9620	1.1	362.454
Sr 216.596	698.871	ppb	2.6688	0.4	10849.6
Ti 334.941	1858.27	ppb	3.9492	0.2	629869
Tl 190.794	31.2432	ppb	2.4620	7.9	-56.1009
V 292.401	671.597	ppb	1.3183	0.2	19583.7
Zn 206.200	4597.96	ppb	16.5630	0.4	5562.11

680-106803-a-42-a (Samp) **11/5/2014, 3:51:32 AM** **Rack 3, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8793u	-0.5161u	-0.6451u
Al 308.215	109751	110200	109678
As 188.980	172.926	165.708	166.812
B 249.678	23.8143u	22.0292u	23.4329u
Ba 389.178	1497.31	1502.51	1494.42
Be 313.042	8.0651	8.0821	8.0505
Ca 370.602	75169	75403	74795
Cd 226.502	6.3955	6.2732	6.5023
Co 228.615	76.3483	77.0270	75.5597
Cr 267.716	259.236	259.745	258.531
Cu 324.754	287.220	288.692	285.391
Fe 271.441	228970	229248	228216
K 766.491	7564.20	7601.22	7558.51
Mg 279.078	20946.5	21013.7	20883.8
Mn 257.610	9189.56	9176.96	9129.79
Mo 202.032	17.5545	18.0483	17.6937
Na 330.237	356.345u	332.571u	430.594u
Ni 231.604	101.851	103.280	102.570
Pb 220.353	1007.11	1011.69	1012.86
Sb 206.834	-3.2209	0.5004	1.6755
Se 196.026	6.4145	-0.1565	-4.0166
Sn 189.925	74.0129	73.5116	71.2657
Sr 216.596	280.933	281.178	278.590
Ti 334.941	1265.76	1271.26	1260.12
Tl 190.794	-1.7242u	-3.7546u	6.1909u
V 292.401	289.435	290.536	289.499
Zn 206.200	2012.30	2007.99	1996.37

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6802	ppb	0.1841	27.1	-62.2743
Al 308.215	109877	ppb	282.773	0.3	813602
As 188.980	168.482	ppb	3.8877	2.3	104.938
B 249.678	23.0922	ppb	0.9401	4.1	-23.6541
Ba 389.178	1498.08	ppb	4.1005	0.3	37381.5
Be 313.042	8.0659	ppb	0.0158	0.2	16501.1
Ca 370.602	75122	ppb	307.1	0.4	223694
Cd 226.502	6.3903	ppb	0.1147	1.8	1380.02
Co 228.615	76.3117	ppb	0.7343	1.0	1046.43

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	259.171	ppb	0.6092	0.2	15842.3
Cu 324.754	287.101	ppb	1.6534	0.6	22904.0
Fe 271.441	228812	ppb	534.047	0.2	403740
K 766.491	7574.65	ppb	23.1933	0.3	338496
Mg 279.078	20948.0	ppb	64.9267	0.3	60109.3
Mn 257.610	9165.43	ppb	31.5091	0.3	2342291
Mo 202.032	17.7655	ppb	0.2546	1.4	133.490
Na 330.237	373.170	ppb	51.1315	13.7	-57.1968
Ni 231.604	102.567	ppb	0.7144	0.7	364.105
Pb 220.353	1010.56	ppb	3.0396	0.3	1762.47
Sb 206.834	-0.3483	ppb	2.5561	733.8	6.1533
Se 196.026	0.7471	ppb	5.2739	705.9	8.0513
Sn 189.925	72.9301	ppb	1.4630	2.0	54.8572
Sr 216.596	280.234	ppb	1.4290	0.5	4302.55
Ti 334.941	1265.71	ppb	5.5691	0.4	429002
Tl 190.794	0.2374	ppb	5.2549	2213.8	-34.3189
V 292.401	289.824	ppb	0.6176	0.2	8426.26
Zn 206.200	2005.55	ppb	8.2422	0.4	2430.15

Cont Calib Verif (CCV) **11/5/2014, 3:55:49 AM** **Rack 3, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	498.524	498.420	491.663
Al 308.215	4772.18	4791.28	4714.83
As 188.980	486.931	487.912	483.910
B 249.678	474.596	479.999	473.590
Ba 389.178	4839.08	4845.49	4770.47
Be 313.042	479.491	481.341	472.598
Ca 370.602	4799	4832	4768
Cd 226.502	482.139	483.922	476.853
Co 228.615	487.234	488.129	482.600
Cr 267.716	4942.51	4960.12	4883.08
Cu 324.754	4991.41	4938.77	4890.13
Fe 271.441	4818.54	4827.07	4755.67
K 766.491	10262.9	10296.9	10146.2
Mg 279.078	4777.81	4792.75	4714.38
Mn 257.610	4896.56	4916.48	4842.99
Mo 202.032	476.028	478.381	472.724
Na 330.237	7344.59	7124.51	7186.64
Ni 231.604	2408.24	2413.43	2369.84
Pb 220.353	493.278	489.678	483.708
Sb 206.834	932.142	934.963	925.723
Se 196.026	4825.29	4827.93	4753.19
Sn 189.925	4803.21	4859.74	4766.84
Sr 216.596	2380.97	2388.28	2349.17
Ti 334.941	479.351	480.635	472.428
Tl 190.794	4900.45	4916.94	4844.00
V 292.401	4791.73	4800.00	4740.40
Zn 206.200	2395.96	2397.11	2369.49

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	496.202	ppb	3.9316	0.8	43698.3	99.24049
Al 308.215	4759.43	ppb	39.7837	0.8	36258.4	95.18861

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	486.251	ppb	2.0861	0.4	312.087	97.25021
B 249.678	476.062	ppb	3.4464	0.7	8342.85	95.21235
Ba 389.178	4818.35	ppb	41.5863	0.9	119857	96.36694
Be 313.042	477.810	ppb	4.6075	1.0	988080	95.56207
Ca 370.602	4800	ppb	32.19	0.7	14794	95.99145
Cd 226.502	480.971	ppb	3.6766	0.8	23496.5	96.19427
Co 228.615	485.988	ppb	2.9680	0.6	6357.00	97.19750
Cr 267.716	4928.57	ppb	40.3659	0.8	297146	98.57140
Cu 324.754	4940.10	ppb	50.6521	1.0	388344	98.80205
Fe 271.441	4800.43	ppb	38.9946	0.8	8606.80	96.00855
K 766.491	10235.3	ppb	79.0787	0.8	457303	102.35327
Mg 279.078	4761.65	ppb	41.6087	0.9	13625.3	95.23293
Mn 257.610	4885.34	ppb	38.0049	0.8	1248059	97.70686
Mo 202.032	475.711	ppb	2.8418	0.6	3671.69	95.14217
Na 330.237	7218.58	ppb	113.460	1.6	325.045	96.24773
Ni 231.604	2397.17	ppb	23.8090	1.0	8125.21	95.88692
Pb 220.353	488.888	ppb	4.8337	1.0	853.081	97.77756
Sb 206.834	930.943	ppb	4.7354	0.5	1486.91	93.09431
Se 196.026	4802.14	ppb	42.4114	0.9	2295.00	96.04275
Sn 189.925	4809.93	ppb	46.8112	1.0	3917.82	96.19860
Sr 216.596	2372.81	ppb	20.7930	0.9	33361.8	94.91243
Ti 334.941	477.471	ppb	4.4147	0.9	161830	95.49426
Tl 190.794	4887.13	ppb	38.2519	0.8	5768.37	97.74265
V 292.401	4777.37	ppb	32.2885	0.7	137208	95.54749
Zn 206.200	2387.52	ppb	15.6262	0.7	2890.42	95.50083

Cont Calib Blank (CCB) **11/5/2014, 4:00:07 AM** **Rack 3, Tube 14**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1780u	0.0019	0.0488
Al 308.215	-1.0344u	1.8971	0.2044
As 188.980	-0.3108u	-5.1929u	-1.7869u
B 249.678	2.4299	1.1049	1.1366
Ba 389.178	0.6238	0.8430	0.5867
Be 313.042	-0.0177u	-0.0213u	-0.0113u
Ca 370.602	2.507	2.363	3.117
Cd 226.502	0.0698	0.1097	0.0598
Co 228.615	-0.0633u	-0.0008u	-0.0853u
Cr 267.716	0.1121	0.0520	0.0208
Cu 324.754	0.1201	0.1315	0.0169
Fe 271.441	4.4785	9.3664	8.2763
K 766.491	0.3238	-0.0237u	0.1707
Mg 279.078	1.5888	1.1156	2.3551
Mn 257.610	0.3809	0.4270	0.4341
Mo 202.032	0.0943	0.1609	-0.2659u
Na 330.237	-79.3975u	-72.7736u	-27.1081u
Ni 231.604	0.2864	-0.5361u	0.6168
Pb 220.353	0.6026	0.1065	2.0279
Sb 206.834	3.6626	1.0664	2.7296
Se 196.026	1.9367	2.1534	-1.4540u
Sn 189.925	-1.0137u	1.8766	0.5907
Sr 216.596	-0.1331u	0.0686	-0.2124u
Ti 334.941	0.0715	0.0644	0.0682

Label	Replicates Concentration		
Tl 190.794	1.0617	2.8068	0.5818
V 292.401	0.1529	0.1309	0.3682
Zn 206.200	0.1797	-0.8346u	-0.7649u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0424	ppb	0.1197	282.2	-5.1365	-0.04243
Al 308.215	0.3557	ppb	1.4716	413.7	501.546	0.35571
As 188.980	-2.4302	ppb	2.5039	103.0	-6.0014	-2.43021
B 249.678	1.5571	ppb	0.7560	48.6	151.792	1.55712
Ba 389.178	0.6845	ppb	0.1385	20.2	-54.2253	0.68451
Be 313.042	-0.0168	ppb	0.0051	30.3	-256.616	-0.01679
Ca 370.602	2.663	ppb	0.4003	15.0	45.52	2.66257
Cd 226.502	0.0798	ppb	0.0264	33.1	30.4537	0.07979
Co 228.615	-0.0498	ppb	0.0438	88.1	0.3391	-0.04978
Cr 267.716	0.0616	ppb	0.0464	75.4	48.9186	0.06163
Cu 324.754	0.0895	ppb	0.0631	70.6	251.030	0.08946
Fe 271.441	7.3738	ppb	2.5659	34.8	29.2931	7.37375
K 766.491	0.1569	ppb	0.1742	111.0	272.692	0.15692
Mg 279.078	1.6865	ppb	0.6255	37.1	24.4983	1.68647
Mn 257.610	0.4140	ppb	0.0289	7.0	201.981	0.41402
Mo 202.032	-0.0036	ppb	0.2296	6443.8	8.9599	-0.00356
Na 330.237	-59.7597	ppb	28.4704	47.6	30.5122	-59.75971
Ni 231.604	0.1224	ppb	0.5937	485.2	-4.5762	0.12236
Pb 220.353	0.9124	ppb	0.9974	109.3	8.8938	0.91238
Sb 206.834	2.4862	ppb	1.3151	52.9	-0.4088	2.48620
Se 196.026	0.8787	ppb	2.0231	230.2	2.7072	0.87868
Sn 189.925	0.4845	ppb	1.4481	298.9	-4.2207	0.48451
Sr 216.596	-0.0923	ppb	0.1449	157.0	7.0494	-0.09229
Ti 334.941	0.0680	ppb	0.0036	5.2	48.0004	0.06804
Tl 190.794	1.4834	ppb	1.1709	78.9	-5.4657	1.48342
V 292.401	0.2173	ppb	0.1311	60.3	-6.6283	0.21732
Zn 206.200	-0.4733	ppb	0.5665	119.7	0.7436	-0.47327

680-106803-a-43-a (Samp) **11/5/2014, 4:04:24 AM** **Rack 3, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2617u	-0.4126u	-0.0239u
Al 308.215	120020	120285	119909
As 188.980	179.924	180.529	177.329
B 249.678	20.3959u	21.2062u	20.9121u
Ba 389.178	1588.55	1589.62	1585.21
Be 313.042	9.0942	9.0964	9.0502
Ca 370.602	120500	120275	120233
Cd 226.502	7.0573	6.8903	6.8408
Co 228.615	76.7042	76.8972	77.1924
Cr 267.716	262.298	262.607	262.174
Cu 324.754	266.285	265.557	265.452
Fe 271.441	271888	272319	271207
K 766.491	8044.88	8048.07	8010.20
Mg 279.078	40430.7	40471.6	40425.9
Mn 257.610	9260.22	9287.24	9249.07
Mo 202.032	15.2549	16.2087	15.1457
Na 330.237	358.542u	471.104u	162.722u

Label	Replicates Concentration		
Ni 231.604	103.505	105.008	102.627
Pb 220.353	972.228	963.352	962.681
Sb 206.834	6.4039	3.2647	-1.4735
Se 196.026	-10.1088	2.9503	8.8609
Sn 189.925	79.1789	77.7989	77.1603
Sr 216.596	342.698	342.095	342.410
Ti 334.941	1334.88	1336.63	1331.35
Tl 190.794	-2.5056u	-3.2266u	0.0583u
V 292.401	340.657	339.440	338.351
Zn 206.200	1832.85	1840.11	1833.51

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2327	ppb	0.1960	84.2	-32.5971
Al 308.215	120071	ppb	193.289	0.2	889089
As 188.980	179.260	ppb	1.7000	0.9	111.786
B 249.678	20.8381	ppb	0.4102	2.0	-165.624
Ba 389.178	1587.79	ppb	2.3016	0.1	39670.9
Be 313.042	9.0803	ppb	0.0260	0.3	18618.6
Ca 370.602	120336	ppb	143.4	0.1	359036
Cd 226.502	6.9295	ppb	0.1134	1.6	1602.99
Co 228.615	76.9313	ppb	0.2459	0.3	1059.65
Cr 267.716	262.360	ppb	0.2229	0.1	16057.7
Cu 324.754	265.764	ppb	0.4535	0.2	21246.6
Fe 271.441	271805	ppb	560.907	0.2	479596
K 766.491	8034.38	ppb	21.0077	0.3	359024
Mg 279.078	40442.8	ppb	25.1151	0.1	116252
Mn 257.610	9265.51	ppb	19.6260	0.2	2368183
Mo 202.032	15.5364	ppb	0.5848	3.8	113.944
Na 330.237	330.790	ppb	156.053	47.2	-65.4358
Ni 231.604	103.714	ppb	1.2040	1.2	372.023
Pb 220.353	966.087	ppb	5.3289	0.6	1688.93
Sb 206.834	2.7317	ppb	3.9656	145.2	12.5164
Se 196.026	0.5675	ppb	9.7068	1710.6	8.5966
Sn 189.925	78.0460	ppb	1.0317	1.3	59.0291
Sr 216.596	342.401	ppb	0.3017	0.1	5257.89
Ti 334.941	1334.29	ppb	2.6876	0.2	452287
Tl 190.794	-1.8913	ppb	1.7264	91.3	-42.9203
V 292.401	339.483	ppb	1.1533	0.3	9874.50
Zn 206.200	1835.49	ppb	4.0129	0.2	2220.89

680-106803-a-44-a (Samp) **11/5/2014, 4:08:41 AM** **Rack 3, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7851	-0.4459	-0.6813
Al 308.215	148572	148557	148741
As 188.980	347.084	352.015	350.156
B 249.678	25.3688u	26.2222u	26.0993u
Ba 389.178	3331.69	3334.04	3330.25
Be 313.042	14.0840	14.1048	14.0897
Ca 370.602	136951	137156	136694
Cd 226.502	13.6417	13.5280	13.2132
Co 228.615	160.914	159.481	158.327
Cr 267.716	287.829	288.211	287.809

Label	Replicates Concentration		
Cu 324.754	459.453	460.442	465.890
Fe 271.441	418959	419595	418706
K 766.491	10868.7	10867.3	10898.7
Mg 279.078	41179.5	41141.9	41074.1
Mn 257.610	33376.9x	33368.4x	33097.1x
Mo 202.032	27.2683	27.5602	27.9106
Na 330.237	639.186u	783.692u	695.377u
Ni 231.604	125.568	123.325	124.389
Pb 220.353	2020.40	2009.96	2008.25
Sb 206.834	5.7959	3.8495	7.4970
Se 196.026	-1.7909	4.8791	-2.5936
Sn 189.925	141.468	145.363	140.785
Sr 216.596	427.724	426.658	424.779
Ti 334.941	1631.59	1636.38	1634.12
Tl 190.794	4.2115u	5.2711u	7.6516u
V 292.401	625.668	625.876	625.925
Zn 206.200	3610.64	3622.36	3604.33

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6374b	ppb	0.1738	27.3	32.4235
Al 308.215	148623b	ppb	102.087	0.1	1100562
As 188.980	349.751b	ppb	2.4902	0.7	222.147
B 249.678	25.8968b	ppb	0.4613	1.8	-430.110
Ba 389.178	3331.99b	ppb	1.9126	0.1	83166.7
Be 313.042	14.0928b	ppb	0.0107	0.1	28995.1
Ca 370.602	136934b	ppb	231.3	0.2	407827
Cd 226.502	13.4609b	ppb	0.2220	1.6	2591.25
Co 228.615	159.574b	ppb	1.2959	0.8	2157.68
Cr 267.716	287.950b	ppb	0.2267	0.1	17806.6
Cu 324.754	461.928b	ppb	3.4664	0.8	36723.6
Fe 271.441	419087b	ppb	458.278	0.1	739470
K 766.491	10878.2b	ppb	17.7387	0.2	486009
Mg 279.078	41131.8b	ppb	53.3928	0.1	117699
Mn 257.610	33280.8xb	ppb	159.134	0.5	8503122
Mo 202.032	27.5797b	ppb	0.3216	1.2	198.657
Na 330.237	706.085b	ppb	72.8458	10.3	-128.383
Ni 231.604	124.428b	ppb	1.1221	0.9	455.808
Pb 220.353	2012.87b	ppb	6.5791	0.3	3505.35
Sb 206.834	5.7141b	ppb	1.8251	31.9	22.4152
Se 196.026	0.1649b	ppb	4.1023	2488.2	16.2073
Sn 189.925	142.539b	ppb	2.4693	1.7	111.622
Sr 216.596	426.387b	ppb	1.4912	0.3	6650.22
Ti 334.941	1634.03b	ppb	2.3977	0.1	553880
Tl 190.794	5.7114b	ppb	1.7618	30.8	-41.3125
V 292.401	625.823b	ppb	0.1363	0.0	18177.3
Zn 206.200	3612.44b	ppb	9.1449	0.3	4376.44

680-106803-a-45-a (Samp) **11/5/2014, 4:12:59 AM** **Rack 3, Tube 17**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.6289u	-0.9332u	-1.1130u
Al 308.215	131716	131414	131953
As 188.980	312.874	314.052	322.831

Label	Replicates Concentration		
B 249.678	25.0913u	25.5496u	27.0671u
Ba 389.178	2042.75	2043.94	2045.20
Be 313.042	12.5465	12.5296	12.5245
Ca 370.602	140501	140624	139899
Cd 226.502	11.3414	11.3899	11.9637
Co 228.615	124.212	124.546	123.464
Cr 267.716	364.515	365.572	364.268
Cu 324.754	507.165	505.120	505.569
Fe 271.441	448355	447256	448542
K 766.491	10527.1	10510.2	10550.6
Mg 279.078	36686.9	36666.6	36666.7
Mn 257.610	14226.6	14259.2	14304.9
Mo 202.032	27.0831	26.4174	27.6189
Na 330.237	777.757u	654.582u	504.147u
Ni 231.604	168.331	166.803	167.391
Pb 220.353	1486.06	1479.35	1485.18
Sb 206.834	-1.4653	5.8417	2.2860
Se 196.026	-1.0961	-3.7286	2.1000
Sn 189.925	115.253	115.799	114.274
Sr 216.596	392.738	394.030	392.810
Ti 334.941	1567.60	1568.32	1551.68
Tl 190.794	-3.1742u	-4.1425u	-6.5021u
V 292.401	512.832	512.423	511.633
Zn 206.200	2973.26	2981.25	2972.94

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2250	ppb	0.3611	29.5	-126.109
Al 308.215	131694	ppb	270.580	0.2	975401
As 188.980	316.586	ppb	5.4408	1.7	200.193
B 249.678	25.9027	ppb	1.0341	4.0	-499.977
Ba 389.178	2043.97	ppb	1.2228	0.1	51125.2
Be 313.042	12.5335	ppb	0.0115	0.1	25769.4
Ca 370.602	140341	ppb	387.7	0.3	417153
Cd 226.502	11.5650	ppb	0.3461	3.0	2631.85
Co 228.615	124.074	ppb	0.5539	0.4	1694.63
Cr 267.716	364.785	ppb	0.6927	0.2	22352.2
Cu 324.754	505.951	ppb	1.0746	0.2	40197.8
Fe 271.441	448051	ppb	694.995	0.2	790569
K 766.491	10529.3	ppb	20.3136	0.2	470428
Mg 279.078	36673.4	ppb	11.6801	0.0	105281
Mn 257.610	14263.5	ppb	39.3141	0.3	3645457
Mo 202.032	27.0398	ppb	0.6019	2.2	193.080
Na 330.237	645.495	ppb	137.031	21.2	-122.083
Ni 231.604	167.508	ppb	0.7711	0.5	604.751
Pb 220.353	1483.53	ppb	3.6453	0.2	2592.88
Sb 206.834	2.2208	ppb	3.6539	164.5	18.9845
Se 196.026	-0.9082	ppb	2.9188	321.4	11.5674
Sn 189.925	115.109	ppb	0.7725	0.7	89.2528
Sr 216.596	393.193	ppb	0.7260	0.2	6223.73
Ti 334.941	1562.53	ppb	9.4062	0.6	529646
Tl 190.794	-4.6063	ppb	1.7117	37.2	-68.4946
V 292.401	512.296	ppb	0.6093	0.1	14916.1
Zn 206.200	2975.81	ppb	4.7090	0.2	3599.65

680-106803-a-46-a (Samp) **11/5/2014, 4:17:16 AM** **Rack 3, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.8208u	-2.1143u	-1.9461u
Al 308.215	133488	133346	133622
As 188.980	196.153	198.243	203.677
B 249.678	11.6386u	11.1806u	11.2476u
Ba 389.178	954.795	953.529	954.914
Be 313.042	8.7376	8.7231	8.7118
Ca 370.602	239886	239314	239498
Cd 226.502	4.6133	4.6774	4.4809
Co 228.615	105.680	103.854	103.917
Cr 267.716	278.635	278.468	279.342
Cu 324.754	147.461	147.498	148.062
Fe 271.441	320107	320641	319832
K 766.491	8576.20	8559.97	8573.06
Mg 279.078	111095	110856	111005
Mn 257.610	13577.6	13601.1	13606.2
Mo 202.032	14.3581	14.1105	13.5279
Na 330.237	103.747u	164.907u	204.337u
Ni 231.604	75.4038	73.7095	74.2747
Pb 220.353	494.301	494.957	491.130
Sb 206.834	-3.2867	-0.8981	-4.8804
Se 196.026	-1.3425	-13.6761	-10.7592
Sn 189.925	34.5445	36.3274	34.0080
Sr 216.596	211.162	211.276	211.089
Ti 334.941	1291.93	1288.47	1290.13
Tl 190.794	-5.6160u	-2.2797u	-5.1451u
V 292.401	489.165	487.069	488.481
Zn 206.200	706.394	703.213	703.214

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.9604	ppb	0.1473	7.5	-166.837
Al 308.215	133485	ppb	137.790	0.1	988405
As 188.980	199.358	ppb	3.8840	1.9	124.700
B 249.678	11.3556	ppb	0.2474	2.2	-444.846
Ba 389.178	954.412	ppb	0.7676	0.1	24048.9
Be 313.042	8.7242	ppb	0.0129	0.1	17932.4
Ca 370.602	239566	ppb	291.9	0.1	716768
Cd 226.502	4.5906	ppb	0.1002	2.2	1709.97
Co 228.615	104.484	ppb	1.0367	1.0	1422.41
Cr 267.716	278.815	ppb	0.4642	0.2	17097.3
Cu 324.754	147.674	ppb	0.3369	0.2	11988.0
Fe 271.441	320193	ppb	411.555	0.1	564977
K 766.491	8569.74	ppb	8.6061	0.1	382930
Mg 279.078	110985	ppb	120.837	0.1	319328
Mn 257.610	13595.0	ppb	15.2570	0.1	3474893
Mo 202.032	13.9988	ppb	0.4262	3.0	99.3378
Na 330.237	157.664	ppb	50.6848	32.1	-56.6508
Ni 231.604	74.4627	ppb	0.8627	1.2	277.244
Pb 220.353	493.463	ppb	2.0468	0.4	880.100
Sb 206.834	-3.0217	ppb	2.0043	66.3	5.5477
Se 196.026	-8.5926	ppb	6.4459	75.0	5.9391
Sn 189.925	34.9600	ppb	1.2142	3.5	23.8929
Sr 216.596	211.175	ppb	0.0941	0.0	3527.90

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	1290.18	ppb	1.7306	0.1	437491
Tl 190.794	-4.3469	ppb	1.8057	41.5	-50.0698
V 292.401	488.238	ppb	1.0691	0.2	14175.5
Zn 206.200	704.274	ppb	1.8364	0.3	841.227

680-106803-a-47-a (Samp) **11/5/2014, 4:21:33 AM** **Rack 3, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-3.2897u	-2.3270u	-2.3757u
Al 308.215	107451	107954	107558
As 188.980	169.496	170.092	162.612
B 249.678	0.8855u	0.4414u	1.3174u
Ba 389.178	364.456	365.755	364.900
Be 313.042	4.5984	4.6190	4.6037
Ca 370.602	24011	24101	24019
Cd 226.502	1.1567	1.1601	0.8660
Co 228.615	109.749	110.374	109.189
Cr 267.716	247.282	248.161	247.126
Cu 324.754	128.165	128.236	129.520
Fe 271.441	301644	302615	302331
K 766.491	5059.13	5086.78	5067.83
Mg 279.078	11238.0	11279.0	11235.5
Mn 257.610	6668.61	6666.61	6666.15
Mo 202.032	11.9530	12.3682	12.0375
Na 330.237	-182.757u	48.1598u	-4.5554u
Ni 231.604	66.4275	64.8855	66.0509
Pb 220.353	215.462	212.368	216.252
Sb 206.834	-1.9683	-2.2994	-3.8215
Se 196.026	3.7400	10.0134	-6.7138
Sn 189.925	23.8925	23.2671	26.6705
Sr 216.596	72.7078	72.5954	71.3699
Ti 334.941	941.715	951.022	945.947
Tl 190.794	-0.6426u	-3.9310u	0.1590u
V 292.401	435.225	437.294	435.296
Zn 206.200	434.330	431.646	426.188

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.6642	ppb	0.5423	20.4	-255.739
Al 308.215	107655	ppb	265.039	0.2	797322
As 188.980	167.400	ppb	4.1570	2.5	103.744
B 249.678	0.8814	ppb	0.4380	49.7	-582.656
Ba 389.178	365.037	ppb	0.6603	0.2	9216.09
Be 313.042	4.6070	ppb	0.0107	0.2	9337.88
Ca 370.602	24043	ppb	49.76	0.2	69073
Cd 226.502	1.0609	ppb	0.1688	15.9	1454.51
Co 228.615	109.771	ppb	0.5930	0.5	1481.75
Cr 267.716	247.523	ppb	0.5580	0.2	15163.1
Cu 324.754	128.641	ppb	0.7628	0.6	10484.9
Fe 271.441	302197	ppb	499.076	0.2	533224
K 766.491	5071.25	ppb	14.1384	0.3	226712
Mg 279.078	11250.8	ppb	24.4274	0.2	32235.1
Mn 257.610	6667.13	ppb	1.3046	0.0	1704297
Mo 202.032	12.1196	ppb	0.2194	1.8	85.8629

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-46.3843	ppb	121.008	260.9	-54.6322
Ni 231.604	65.7880	ppb	0.8040	1.2	246.119
Pb 220.353	214.694	ppb	2.0524	1.0	398.183
Sb 206.834	-2.6964	ppb	0.9883	36.7	5.0542
Se 196.026	2.3465	ppb	8.4502	360.1	9.2525
Sn 189.925	24.6100	ppb	1.8116	7.4	15.4527
Sr 216.596	72.2243	ppb	0.7421	1.0	1452.93
Ti 334.941	946.228	ppb	4.6596	0.5	320733
Tl 190.794	-1.4716	ppb	2.1673	147.3	-47.9583
V 292.401	435.938	ppb	1.1743	0.3	12657.9
Zn 206.200	430.721	ppb	4.1493	1.0	509.245

680-106803-a-48-a (Samp) **11/5/2014, 4:25:50 AM** **Rack 3, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.6082u	-0.8815u	-1.0926u
Al 308.215	121499	121359	121140
As 188.980	242.040	240.472	237.508
B 249.678	24.8852u	23.9855u	24.1812u
Ba 389.178	1602.32	1599.71	1597.70
Be 313.042	11.6593	11.6318	11.6113
Ca 370.602	134694	135093	135669
Cd 226.502	5.7118	5.9484	5.3046
Co 228.615	68.5801	69.4254	68.9850
Cr 267.716	279.779	279.274	279.064
Cu 324.754	237.592	237.498	235.733
Fe 271.441	366588	366615	366674
K 766.491	8087.55	8087.85	8072.39
Mg 279.078	32102.4	32100.4	32069.8
Mn 257.610	10613.6	10555.6	10583.7
Mo 202.032	12.3961	12.6636	12.1829
Na 330.237	449.905u	482.011u	477.339u
Ni 231.604	77.3815	75.4382	76.1001
Pb 220.353	685.971	682.283	680.780
Sb 206.834	-5.5273	-3.1422	-0.3088
Se 196.026	4.7118	-6.0018	-0.2582
Sn 189.925	42.7597	42.4436	45.1662
Sr 216.596	283.114	281.232	281.727
Ti 334.941	1422.25	1421.23	1415.23
Tl 190.794	-4.8858u	-2.4002u	-6.7718u
V 292.401	494.980	494.619	495.448
Zn 206.200	1212.11	1205.68	1205.55

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1941	ppb	0.3738	31.3	-124.646
Al 308.215	121333	ppb	180.725	0.1	898611
As 188.980	240.007	ppb	2.3018	1.0	150.748
B 249.678	24.3506	ppb	0.4732	1.9	-331.985
Ba 389.178	1599.91	ppb	2.3141	0.1	40017.8
Be 313.042	11.6342	ppb	0.0241	0.2	23912.4
Ca 370.602	135152	ppb	490.0	0.4	402429
Cd 226.502	5.6549	ppb	0.3256	5.8	1972.66
Co 228.615	68.9968	ppb	0.4228	0.6	965.545

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	279.372	ppb	0.3672	0.1	17139.3
Cu 324.754	236.941	ppb	1.0472	0.4	19023.2
Fe 271.441	366626	ppb	43.9413	0.0	646897
K 766.491	8082.60	ppb	8.8407	0.1	361177
Mg 279.078	32090.9	ppb	18.3075	0.1	92167.3
Mn 257.610	10584.3	ppb	29.0397	0.3	2705306
Mo 202.032	12.4142	ppb	0.2409	1.9	84.6331
Na 330.237	469.751	ppb	17.3459	3.7	-65.6689
Ni 231.604	76.3066	ppb	0.9880	1.3	287.938
Pb 220.353	683.011	ppb	2.6711	0.4	1209.05
Sb 206.834	-2.9928	ppb	2.6125	87.3	7.2767
Se 196.026	-0.5161	ppb	5.3615	1038.9	9.7295
Sn 189.925	43.4565	ppb	1.4891	3.4	30.8216
Sr 216.596	282.024	ppb	0.9760	0.3	4545.78
Ti 334.941	1419.57	ppb	3.7960	0.3	481181
Tl 190.794	-4.6859	ppb	2.1926	46.8	-58.9729
V 292.401	495.016	ppb	0.4154	0.1	14390.6
Zn 206.200	1207.78	ppb	3.7475	0.3	1451.78

680-106803-a-49-a (Samp) **11/5/2014, 4:30:08 AM** **Rack 3, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0052u	-0.2144u	-0.2106u
Al 308.215	74017.4	72636.4	74654.3
As 188.980	91.3457	85.9795	91.8400
B 249.678	7.5021u	8.5025u	7.4884u
Ba 389.178	492.294	482.009	496.367
Be 313.042	4.3510	4.2554	4.3897
Ca 370.602	17644	17328	17815
Cd 226.502	3.2451	2.7684	3.5557
Co 228.615	47.0813	45.4960	47.1099
Cr 267.716	208.679	203.564	210.208
Cu 324.754	154.473	150.179	156.905
Fe 271.441	176405	172609	177861
K 766.491	5153.29	5055.89	5183.71
Mg 279.078	4305.53	4207.48	4329.93
Mn 257.610	2831.92	2778.58	2858.77
Mo 202.032	8.4463	8.2930	8.1701
Na 330.237	358.094u	349.829u	137.636u
Ni 231.604	51.7853	51.7592	52.2923
Pb 220.353	640.812	621.351	643.130
Sb 206.834	0.1383	2.0207	0.3519
Se 196.026	-2.2893	-2.2184	9.6802
Sn 189.925	35.6363	33.2192	32.4271
Sr 216.596	98.3786	95.4056	98.4953
Ti 334.941	791.762	775.320	792.102
Tl 190.794	-1.5056u	0.9421u	-3.9564u
V 292.401	216.508	212.359	218.750
Zn 206.200	1190.14	1168.08	1194.38

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1434	ppb	0.1197	83.5	-32.9710
Al 308.215	73769.4	ppb	1031.57	1.4	546447

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	89.7217	ppb	3.2503	3.6	53.6289
B 249.678	7.8310	ppb	0.5816	7.4	-159.923
Ba 389.178	490.224	ppb	7.3994	1.5	12242.5
Be 313.042	4.3320	ppb	0.0691	1.6	8755.83
Ca 370.602	17596	ppb	247.2	1.4	51125
Cd 226.502	3.1897	ppb	0.3965	12.4	981.756
Co 228.615	46.5624	ppb	0.9236	2.0	642.230
Cr 267.716	207.484	ppb	3.4795	1.7	12662.8
Cu 324.754	153.852	ppb	3.4052	2.2	12410.6
Fe 271.441	175625	ppb	2711.52	1.5	309893
K 766.491	5130.96	ppb	66.7694	1.3	229378
Mg 279.078	4280.98	ppb	64.8116	1.5	12258.4
Mn 257.610	2823.09	ppb	40.8182	1.4	721877
Mo 202.032	8.3031	ppb	0.1384	1.7	63.4274
Na 330.237	281.853	ppb	124.964	44.3	-26.8808
Ni 231.604	51.9456	ppb	0.3005	0.6	187.505
Pb 220.353	635.097	ppb	11.9614	1.9	1112.00
Sb 206.834	0.8370	ppb	1.0307	123.1	5.6378
Se 196.026	1.7242	ppb	6.8902	399.6	6.2562
Sn 189.925	33.7609	ppb	1.6718	5.0	22.9153
Sr 216.596	97.4265	ppb	1.7511	1.8	1630.42
Ti 334.941	786.395	ppb	9.5926	1.2	266538
Tl 190.794	-1.5066	ppb	2.4493	162.6	-32.3656
V 292.401	215.872	ppb	3.2427	1.5	6272.54
Zn 206.200	1184.20	ppb	14.1218	1.2	1433.17

680-106803-a-50-a (Samp) **11/5/2014, 4:34:25 AM** **Rack 3, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3273u	-0.1144u	-0.8438u
Al 308.215	97294.3	97500.0	97146.6
As 188.980	75.0385	83.0764	82.3468
B 249.678	18.8462u	18.2137u	18.9261u
Ba 389.178	1449.25	1453.86	1447.13
Be 313.042	5.7022	5.7163	5.6896
Ca 370.602	44541	44429	44429
Cd 226.502	3.2425	3.2772	3.2257
Co 228.615	41.9965	42.5057	42.2343
Cr 267.716	210.347	211.150	210.150
Cu 324.754	161.896	162.377	163.200
Fe 271.441	179581	180170	179658
K 766.491	8232.97	8230.75	8206.04
Mg 279.078	6372.73	6387.75	6365.62
Mn 257.610	2221.64	2232.89	2214.62
Mo 202.032	14.4612	14.6350	14.9040
Na 330.237	526.456u	532.441u	362.654u
Ni 231.604	60.8872	63.4264	61.7530
Pb 220.353	418.144	419.701	418.721
Sb 206.834	0.3445	0.2383	-0.9940
Se 196.026	-4.6025	-0.5057	6.3951
Sn 189.925	28.9712	33.7838	29.3960
Sr 216.596	419.330	422.192	420.178
Ti 334.941	1053.49	1057.90	1047.05

Label	Replicates Concentration		
Tl 190.794	-1.4066u	-2.3504u	0.7894u
V 292.401	238.420	239.074	238.861
Zn 206.200	1031.52	1033.58	1029.73

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4285	ppb	0.3751	87.5	-73.5448
Al 308.215	97313.6	ppb	177.533	0.2	720591
As 188.980	80.1539	ppb	4.4450	5.5	47.6103
B 249.678	18.6620	ppb	0.3903	2.1	16.6131
Ba 389.178	1450.08	ppb	3.4406	0.2	36134.5
Be 313.042	5.7027	ppb	0.0134	0.2	11603.0
Ca 370.602	44466	ppb	64.64	0.1	131917
Cd 226.502	3.2485	ppb	0.0263	0.8	1004.37
Co 228.615	42.2455	ppb	0.2548	0.6	592.461
Cr 267.716	210.549	ppb	0.5298	0.3	12847.3
Cu 324.754	162.491	ppb	0.6593	0.4	13091.3
Fe 271.441	179803	ppb	320.331	0.2	317265
K 766.491	8223.25	ppb	14.9522	0.2	367458
Mg 279.078	6375.37	ppb	11.3015	0.2	18294.3
Mn 257.610	2223.05	ppb	9.2164	0.4	568639
Mo 202.032	14.6667	ppb	0.2231	1.5	112.246
Na 330.237	473.850	ppb	96.3454	20.3	-15.1961
Ni 231.604	62.0222	ppb	1.2908	2.1	222.110
Pb 220.353	418.855	ppb	0.7872	0.2	739.631
Sb 206.834	-0.1370	ppb	0.7440	542.9	4.2081
Se 196.026	0.4290	ppb	5.5581	1295.7	5.5559
Sn 189.925	30.7170	ppb	2.6644	8.7	20.4332
Sr 216.596	420.567	ppb	1.4698	0.3	6200.11
Ti 334.941	1052.81	ppb	5.4558	0.5	356823
Tl 190.794	-0.9892	ppb	1.6110	162.9	-32.7053
V 292.401	238.785	ppb	0.3338	0.1	6936.83
Zn 206.200	1031.61	ppb	1.9241	0.2	1247.18

680-106803-a-51-a (Samp) **11/5/2014, 4:38:42 AM** **Rack 3, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2514u	-0.5245u	-0.4836u
Al 308.215	145884	146289	146288
As 188.980	351.284	344.342	350.414
B 249.678	20.9239u	19.5647u	19.3464u
Ba 389.178	1923.59	1930.38	1928.91
Be 313.042	13.4402	13.4064	13.3824
Ca 370.602	62380	62638	62712
Cd 226.502	12.9157	12.6827	12.7652
Co 228.615	103.872	103.366	102.990
Cr 267.716	360.110	360.991	360.792
Cu 324.754	536.427	541.598	540.388
Fe 271.441	486081	486231	486683
K 766.491	10649.3	10687.8	10690.6
Mg 279.078	11998.7	12046.6	12030.5
Mn 257.610	12395.0	12439.7	12481.1
Mo 202.032	23.6224	23.0335	23.3517
Na 330.237	973.942u	883.856u	766.910u

Label	Replicates Concentration		
Ni 231.604	158.479	160.877	157.939
Pb 220.353	1455.21	1457.96	1456.39
Sb 206.834	1.7767	1.3990	-0.5546
Se 196.026	-13.3458	8.1535	-8.7233
Sn 189.925	91.0688	94.5227	89.9287
Sr 216.596	507.076	510.378	508.833
Ti 334.941	1452.11	1461.16	1461.00
Tl 190.794	-2.5288u	-3.3885u	-2.3077u
V 292.401	666.619	669.559	668.308
Zn 206.200	3037.92	3054.34	3046.58

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4198	ppb	0.1473	35.1	-74.7672
Al 308.215	146154	ppb	233.490	0.2	1082432
As 188.980	348.680	ppb	3.7817	1.1	220.995
B 249.678	19.9450	ppb	0.8547	4.3	-694.375
Ba 389.178	1927.63	ppb	3.5740	0.2	48215.5
Be 313.042	13.4096	ppb	0.0290	0.2	27562.7
Ca 370.602	62577	ppb	174.6	0.3	182913
Cd 226.502	12.7879	ppb	0.1181	0.9	2865.48
Co 228.615	103.409	ppb	0.4426	0.4	1425.16
Cr 267.716	360.631	ppb	0.4622	0.1	22110.2
Cu 324.754	539.471	ppb	2.7046	0.5	42846.7
Fe 271.441	486332	ppb	313.536	0.1	858109
K 766.491	10675.9	ppb	23.0637	0.2	476976
Mg 279.078	12025.2	ppb	24.3746	0.2	34323.8
Mn 257.610	12438.6	ppb	43.0566	0.3	3179211
Mo 202.032	23.3358	ppb	0.2948	1.3	162.286
Na 330.237	874.903	ppb	103.806	11.9	-121.601
Ni 231.604	159.099	ppb	1.5639	1.0	579.865
Pb 220.353	1456.52	ppb	1.3803	0.1	2548.64
Sb 206.834	0.8737	ppb	1.2513	143.2	18.2631
Se 196.026	-4.6385	ppb	11.3167	244.0	9.8909
Sn 189.925	91.8401	ppb	2.3921	2.6	70.2775
Sr 216.596	508.762	ppb	1.6522	0.3	7870.82
Ti 334.941	1458.09	ppb	5.1816	0.4	494210
Tl 190.794	-2.7417	ppb	0.5710	20.8	-72.6258
V 292.401	668.162	ppb	1.4754	0.2	19417.0
Zn 206.200	3046.28	ppb	8.2163	0.3	3683.48

680-106803-a-52-a (Samp) **11/5/2014, 4:42:59 AM** **Rack 3, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.3089u	-1.0464u	-1.5254u
Al 308.215	140216	139740	140575
As 188.980	317.229	320.863	312.706
B 249.678	6.9607u	7.3288u	8.4433u
Ba 389.178	1216.21	1215.77	1221.72
Be 313.042	11.2624	11.1898	11.2966
Ca 370.602	35736	35759	35635
Cd 226.502	9.4365	9.0241	10.6259
Co 228.615	122.487	124.630	122.384
Cr 267.716	654.032	654.402	654.810

Label	Replicates Concentration		
Cu 324.754	285.609	284.202	286.533
Fe 271.441	678988	677438	679769
K 766.491	7994.38	7980.21	7976.76
Mg 279.078	7836.17	7832.68	7869.09
Mn 257.610	12954.8	12866.5	13026.2
Mo 202.032	26.2854	27.1511	26.8190
Na 330.237	262.423u	466.324u	192.209u
Ni 231.604	98.0717	98.9803	100.749
Pb 220.353	842.054	844.940	849.024
Sb 206.834	-6.7423	-7.2475	-6.0222
Se 196.026	-1.4845	-1.4855	6.7500
Sn 189.925	126.672	124.035	124.579
Sr 216.596	361.049	362.427	363.167
Ti 334.941	1351.14	1349.35	1353.72
Tl 190.794	-9.7044u	-13.9278u	-4.9179u
V 292.401	772.460	771.405	771.738
Zn 206.200	1856.19	1850.21	1868.39

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2936	ppb	0.2399	18.5	-178.056
Al 308.215	140177	ppb	419.040	0.3	1038598
As 188.980	316.933	ppb	4.0867	1.3	199.027
B 249.678	7.5776	ppb	0.7719	10.2	-1369.11
Ba 389.178	1217.90	ppb	3.3165	0.3	30665.8
Be 313.042	11.2496	ppb	0.0546	0.5	23084.5
Ca 370.602	35710	ppb	66.11	0.2	99709
Cd 226.502	9.6955	ppb	0.8317	8.6	3592.74
Co 228.615	123.167	ppb	1.2682	1.0	1696.29
Cr 267.716	654.415	ppb	0.3892	0.1	39925.7
Cu 324.754	285.448	ppb	1.1740	0.4	22975.3
Fe 271.441	678732	ppb	1186.37	0.2	1197579
K 766.491	7983.78	ppb	9.3391	0.1	356765
Mg 279.078	7845.98	ppb	20.0873	0.3	22277.8
Mn 257.610	12949.2	ppb	79.9937	0.6	3310264
Mo 202.032	26.7519	ppb	0.4367	1.6	178.258
Na 330.237	306.986	ppb	142.387	46.4	-165.421
Ni 231.604	99.2671	ppb	1.3615	1.4	394.867
Pb 220.353	845.339	ppb	3.5021	0.4	1511.66
Sb 206.834	-6.6707	ppb	0.6158	9.2	16.9678
Se 196.026	1.2600	ppb	4.7545	377.3	15.5422
Sn 189.925	125.096	ppb	1.3922	1.1	97.3963
Sr 216.596	362.214	ppb	1.0746	0.3	6063.28
Ti 334.941	1351.40	ppb	2.1977	0.2	458077
Tl 190.794	-9.5167	ppb	4.5079	47.4	-108.035
V 292.401	771.868	ppb	0.5392	0.1	22462.8
Zn 206.200	1858.27	ppb	9.2645	0.5	2226.26

Cont Calib Verif (CCV) **11/5/2014, 4:47:17 AM** **Rack 3, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	519.749	514.979	517.743
Al 308.215	4990.28	4977.40	4972.27
As 188.980	500.882	503.327	504.237

Label	Replicates Concentration		
B 249.678	495.711	496.846	498.912
Ba 389.178	4983.04	4973.84	4974.47
Be 313.042	495.067	492.986	495.138
Ca 370.602	4936	4924	4950
Cd 226.502	498.803	497.289	497.886
Co 228.615	502.746	501.637	501.919
Cr 267.716	5097.06	5084.71	5090.99
Cu 324.754	5206.05	5171.67	5275.44
Fe 271.441	5010.28	4995.24	4985.50
K 766.491	10763.6	10733.7	10765.7
Mg 279.078	4931.70	4925.97	4931.75
Mn 257.610	5043.50	5052.61	5042.30
Mo 202.032	495.658	494.653	494.789
Na 330.237	7464.77	7295.31	7294.56
Ni 231.604	2480.25	2486.73	2464.81
Pb 220.353	504.864	498.439	507.675
Sb 206.834	966.615	971.544	979.621
Se 196.026	5057.55	5048.99	5056.27
Sn 189.925	4982.27	5016.22	4988.53
Sr 216.596	2434.61	2430.40	2430.82
Ti 334.941	499.180	498.443	498.701
Tl 190.794	5026.28	5025.19	5055.47
V 292.401	4963.22	4957.34	4970.30
Zn 206.200	2444.17	2447.87	2433.17

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	517.490	ppb	2.3949	0.5	45574.6	103.49807
Al 308.215	4979.99	ppb	9.2768	0.2	37911.1	99.59972
As 188.980	502.815	ppb	1.7352	0.3	322.869	100.56306
B 249.678	497.156	ppb	1.6229	0.3	8707.07	99.43126
Ba 389.178	4977.12	ppb	5.1421	0.1	123809	99.54235
Be 313.042	494.397	ppb	1.2227	0.2	1022388	98.87935
Ca 370.602	4936	ppb	13.28	0.3	15218	98.72782
Cd 226.502	497.992	ppb	0.7630	0.2	24327.2	99.59850
Co 228.615	502.101	ppb	0.5763	0.1	6567.74	100.42011
Cr 267.716	5090.92	ppb	6.1758	0.1	306933	101.81839
Cu 324.754	5217.72	ppb	52.8628	1.0	410155	104.35435
Fe 271.441	4997.01	ppb	12.4857	0.2	8957.92	99.94014
K 766.491	10754.3	ppb	17.8828	0.2	480478	107.54332
Mg 279.078	4929.81	ppb	3.3207	0.1	14106.0	98.59615
Mn 257.610	5046.14	ppb	5.6365	0.1	1289134	100.92271
Mo 202.032	495.034	ppb	0.5453	0.1	3820.47	99.00673
Na 330.237	7351.55	ppb	98.0522	1.3	330.121	98.02061
Ni 231.604	2477.26	ppb	11.2581	0.5	8396.85	99.09058
Pb 220.353	503.659	ppb	4.7342	0.9	878.639	100.73183
Sb 206.834	972.593	ppb	6.5664	0.7	1552.90	97.25935
Se 196.026	5054.27	ppb	4.6156	0.1	2415.35	101.08543
Sn 189.925	4995.67	ppb	18.0634	0.4	4069.29	99.91346
Sr 216.596	2431.94	ppb	2.3217	0.1	34192.4	97.27763
Ti 334.941	498.775	ppb	0.3740	0.1	169049	99.75493
Tl 190.794	5035.65	ppb	17.1781	0.3	5943.94	100.71293
V 292.401	4963.62	ppb	6.4867	0.1	142559	99.27238
Zn 206.200	2441.74	ppb	7.6448	0.3	2955.86	97.66953

Cont Calib Blank (CCB) **11/5/2014, 4:51:34 AM** **Rack 3, Tube 26**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0325u	0.1465	-0.0433u
Al 308.215	2.6627	3.0540	3.8477
As 188.980	-3.1130u	-4.2465u	-2.5922u
B 249.678	1.0702	0.3723	0.1828
Ba 389.178	2.2947	0.9529	1.3277
Be 313.042	-0.0290u	-0.0192u	-0.0193u
Ca 370.602	1.815	1.540	5.386
Cd 226.502	-0.0327u	-0.0116u	-0.0346u
Co 228.615	0.0199	-0.0218u	-0.1669u
Cr 267.716	0.0344	0.0652	0.0735
Cu 324.754	0.2059	0.5189	0.4841
Fe 271.441	6.9339	9.9443	8.5181
K 766.491	0.2612	0.3711	0.6539
Mg 279.078	1.6985	-1.4950u	1.0051
Mn 257.610	0.3311	0.3840	0.3943
Mo 202.032	0.0015	-0.0386u	-0.3765u
Na 330.237	-142.711u	-2.1557u	-94.7223u
Ni 231.604	1.3831	1.5872	0.0500
Pb 220.353	0.2098	-1.3275u	0.3562
Sb 206.834	2.1394	2.9338	1.1713
Se 196.026	5.9322	1.6258	-0.7056u
Sn 189.925	-1.5748u	0.5313	1.7465
Sr 216.596	0.0579	-0.1511u	-0.5341u
Ti 334.941	0.0442	0.0647	0.0598
Tl 190.794	-0.8869u	-0.5736u	0.6992
V 292.401	0.1179	0.3848	0.1912
Zn 206.200	0.1127	0.8525	0.3419

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0236	ppb	0.1066	452.3	0.6803	0.02357
Al 308.215	3.1881	ppb	0.6038	18.9	522.489	3.18810
As 188.980	-3.3172	ppb	0.8458	25.5	-6.5789	-3.31724
B 249.678	0.5418	ppb	0.4674	86.3	134.246	0.54178
Ba 389.178	1.5251	ppb	0.6923	45.4	-33.3101	1.52509
Be 313.042	-0.0225	ppb	0.0056	25.0	-268.414	-0.02252
Ca 370.602	2.914	ppb	2.146	73.6	46.25	2.91356
Cd 226.502	-0.0263	ppb	0.0127	48.4	25.2885	-0.02630
Co 228.615	-0.0563	ppb	0.0980	174.3	0.2625	-0.05626
Cr 267.716	0.0577	ppb	0.0206	35.8	48.6822	0.05768
Cu 324.754	0.4029	ppb	0.1716	42.6	275.650	0.40295
Fe 271.441	8.4654	ppb	1.5059	17.8	31.2227	8.46542
K 766.491	0.4287	ppb	0.2026	47.3	284.828	0.42872
Mg 279.078	0.4028	ppb	1.6798	417.0	20.8001	0.40285
Mn 257.610	0.3698	ppb	0.0339	9.2	190.676	0.36980
Mo 202.032	-0.1379	ppb	0.2076	150.6	7.9239	-0.13787
Na 330.237	-79.8630	ppb	71.4461	89.5	29.5184	-79.86301
Ni 231.604	1.0068	ppb	0.8348	82.9	-1.5762	1.00678
Pb 220.353	-0.2538	ppb	0.9327	367.4	6.8879	-0.25383
Sb 206.834	2.0815	ppb	0.8827	42.4	-1.0286	2.08150
Se 196.026	2.2841	ppb	3.3675	147.4	3.3779	2.28415
Sn 189.925	0.2343	ppb	1.6805	717.1	-4.4247	0.23432
Sr 216.596	-0.2091	ppb	0.3002	143.6	5.3865	-0.20911

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.0562	ppb	0.0107	19.0	43.9984	0.05624
Tl 190.794	-0.2538	ppb	0.8401	331.0	-7.5141	-0.25377
V 292.401	0.2313	ppb	0.1379	59.6	-6.1824	0.23130
Zn 206.200	0.4357	ppb	0.3787	86.9	1.8500	0.43570

680-106803-a-53-a (Samp) **11/5/2014, 4:55:52 AM** **Rack 3, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-4.1226u	-3.0822u	-3.1034u
Al 308.215	130000	130452	129750
As 188.980	267.350	265.763	262.843
B 249.678	14.3040u	15.2385u	14.0127u
Ba 389.178	1848.29	1856.00	1845.49
Be 313.042	9.9788	10.0105	9.9409
Ca 370.602	54697	55210	54975
Cd 226.502	7.6743	7.2392	6.9495
Co 228.615	175.787	179.183	176.221
Cr 267.716	292.917	294.042	292.648
Cu 324.754	438.222	436.996	433.620
Fe 271.441	374021	375367	372357
K 766.491	9011.63	9030.80	8995.07
Mg 279.078	8712.98	8757.26	8718.41
Mn 257.610	15890.5	15905.0	15825.4
Mo 202.032	21.6786	22.4519	21.3519
Na 330.237	145.083u	332.580u	330.972u
Ni 231.604	124.584	124.949	123.094
Pb 220.353	1022.79	1022.49	1019.72
Sb 206.834	1.0605	-4.1238	0.6634
Se 196.026	-3.7899	2.9551	-0.9503
Sn 189.925	78.4986	78.8715	78.4388
Sr 216.596	470.048	473.305	471.303
Ti 334.941	1267.19	1268.69	1259.29
Tl 190.794	0.1544u	-4.7857u	-1.9709u
V 292.401	468.495	472.223	469.561
Zn 206.200	1810.48	1824.27	1810.90

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.4361	ppb	0.5947	17.3	-301.250
Al 308.215	130067	ppb	355.909	0.3	963224
As 188.980	265.319	ppb	2.2862	0.9	167.269
B 249.678	14.5184	ppb	0.6404	4.4	-519.631
Ba 389.178	1849.93	ppb	5.4417	0.3	46207.7
Be 313.042	9.9767	ppb	0.0348	0.3	20450.6
Ca 370.602	54961	ppb	257.0	0.5	161453
Cd 226.502	7.2877	ppb	0.3648	5.0	2086.16
Co 228.615	177.064	ppb	1.8480	1.0	2374.08
Cr 267.716	293.202	ppb	0.7392	0.3	18005.8
Cu 324.754	436.279	ppb	2.3831	0.5	34689.8
Fe 271.441	373915	ppb	1507.70	0.4	659772
K 766.491	9012.50	ppb	17.8820	0.2	402700
Mg 279.078	8729.55	ppb	24.1532	0.3	24762.8
Mn 257.610	15873.7	ppb	42.4237	0.3	4056228
Mo 202.032	21.8275	ppb	0.5649	2.6	156.861

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	269.545	ppb	107.790	40.0	-92.4704
Ni 231.604	124.209	ppb	0.9828	0.8	450.833
Pb 220.353	1021.67	ppb	1.6891	0.2	1793.35
Sb 206.834	-0.8000	ppb	2.8854	360.7	10.9288
Se 196.026	-0.5950	ppb	3.3865	569.1	11.0598
Sn 189.925	78.6030	ppb	0.2345	0.3	59.4830
Sr 216.596	471.552	ppb	1.6427	0.3	7189.54
Ti 334.941	1265.06	ppb	5.0523	0.4	428776
Tl 190.794	-2.2007	ppb	2.4781	112.6	-53.9403
V 292.401	470.093	ppb	1.9200	0.4	13670.9
Zn 206.200	1815.21	ppb	7.8438	0.4	2190.82

680-106803-a-54-a (Samp) **11/5/2014, 5:00:09 AM** **Rack 3, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1975	0.0783	0.0533
Al 308.215	169846	169184	169236
As 188.980	412.384	410.521	414.535
B 249.678	29.1317u	29.2090u	28.9837u
Ba 389.178	2626.28	2621.63	2624.35
Be 313.042	14.8922	14.8931	14.8739
Ca 370.602	62158	61986	61859
Cd 226.502	16.3631	16.1732	16.3693
Co 228.615	142.023	143.722	140.474
Cr 267.716	609.229	608.345	607.146
Cu 324.754	592.433	596.920	589.741
Fe 271.441	618324	617595	618874
K 766.491	11962.3	11975.2	11970.2
Mg 279.078	19493.0	19459.0	19429.1
Mn 257.610	23543.3	23523.6	23550.8
Mo 202.032	28.6744	28.9840	29.0072
Na 330.237	944.222u	1065.00u	1055.39u
Ni 231.604	169.629	170.493	168.221
Pb 220.353	2251.03	2246.44	2253.41
Sb 206.834	-4.0031	-1.8815	1.0405
Se 196.026	-6.3871	5.7768	-7.0130
Sn 189.925	137.567	137.795	131.213
Sr 216.596	520.722	518.368	519.791
Ti 334.941	1648.47	1645.53	1644.46
Tl 190.794	-2.3090u	-4.7845u	0.2260u
V 292.401	617.586	617.380	615.157
Zn 206.200	3758.38	3751.53	3753.24

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1097	ppb	0.0771	70.3	7.4102
Al 308.215	169422	ppb	367.963	0.2	1254763
As 188.980	412.480	ppb	2.0087	0.5	261.929
B 249.678	29.1081	ppb	0.1145	0.4	-852.484
Ba 389.178	2624.08	ppb	2.3377	0.1	65639.1
Be 313.042	14.8864	ppb	0.0108	0.1	30605.0
Ca 370.602	62001	ppb	149.8	0.2	179891
Cd 226.502	16.3019	ppb	0.1114	0.7	3638.98
Co 228.615	142.073	ppb	1.6247	1.1	1945.51

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	608.240	ppb	1.0458	0.2	37169.9
Cu 324.754	593.031	ppb	3.6269	0.6	47117.1
Fe 271.441	618265	ppb	641.730	0.1	1090893
K 766.491	11969.2	ppb	6.5477	0.1	534727
Mg 279.078	19460.4	ppb	31.9563	0.2	55486.0
Mn 257.610	23539.2	ppb	14.0658	0.1	6015262
Mo 202.032	28.8885	ppb	0.1858	0.6	198.149
Na 330.237	1021.54	ppb	67.1280	6.6	-164.786
Ni 231.604	169.447	ppb	1.1470	0.7	627.217
Pb 220.353	2250.29	ppb	3.5401	0.2	3926.15
Sb 206.834	-1.6147	ppb	2.5324	156.8	22.0347
Se 196.026	-2.5411	ppb	7.2103	283.7	15.4023
Sn 189.925	135.525	ppb	3.7363	2.8	105.902
Sr 216.596	519.627	ppb	1.1855	0.2	8205.34
Ti 334.941	1646.15	ppb	2.0795	0.1	557972
Tl 190.794	-2.2892	ppb	2.5053	109.4	-85.1206
V 292.401	616.708	ppb	1.3471	0.2	17978.7
Zn 206.200	3754.38	ppb	3.5667	0.1	4537.84

680-106803-a-56-a (Samp) **11/5/2014, 5:04:27 AM** **Rack 3, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.8596	1.8386	0.6716
Al 308.215	128949	128597	129110
As 188.980	280.412	277.085	277.299
B 249.678	26.5743u	27.2813u	27.6050u
Ba 389.178	2206.71	2195.75	2201.14
Be 313.042	10.8099	10.7602	10.7827
Ca 370.602	119154	118962	119574
Cd 226.502	13.0943	12.8641	13.0491
Co 228.615	96.5085	96.9056	97.8485
Cr 267.716	342.559	341.753	342.407
Cu 324.754	508.784	507.042	512.379
Fe 271.441	336463	335502	335934
K 766.491	10364.3	10311.4	10355.1
Mg 279.078	25713.6	25654.9	25779.8
Mn 257.610	13757.5	13689.8	13689.9
Mo 202.032	21.2027	20.0554	20.9327
Na 330.237	982.410u	879.669u	1004.82u
Ni 231.604	155.432	153.481	155.883
Pb 220.353	2030.97	2024.33	2034.16
Sb 206.834	4.8925	0.2347	3.7414
Se 196.026	-0.5737	-11.7220	7.4271
Sn 189.925	764.330	755.853	763.231
Sr 216.596	466.548	466.198	467.362
Ti 334.941	1649.44	1643.67	1650.97
Tl 190.794	-1.2449u	-3.4379u	-1.4487u
V 292.401	415.647	413.482	416.492
Zn 206.200	3377.13	3369.16	3392.36

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.1232	ppb	0.6266	55.8	95.3734
Al 308.215	128885	ppb	262.490	0.2	954405

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	278.265	ppb	1.8625	0.7	175.930
B 249.678	27.1535	ppb	0.5271	1.9	-211.009
Ba 389.178	2201.20	ppb	5.4823	0.2	54952.3
Be 313.042	10.7843	ppb	0.0249	0.2	22143.2
Ca 370.602	119230	ppb	313.3	0.3	355162
Cd 226.502	13.0025	ppb	0.1220	0.9	2192.74
Co 228.615	97.0875	ppb	0.6883	0.7	1335.13
Cr 267.716	342.240	ppb	0.4285	0.1	20931.8
Cu 324.754	509.402	ppb	2.7216	0.5	40418.5
Fe 271.441	335966	ppb	481.530	0.1	592805
K 766.491	10343.6	ppb	28.2593	0.3	462136
Mg 279.078	25716.1	ppb	62.5032	0.2	73735.1
Mn 257.610	13712.4	ppb	39.0470	0.3	3504184
Mo 202.032	20.7303	ppb	0.5998	2.9	150.477
Na 330.237	955.632	ppb	66.7331	7.0	-90.4221
Ni 231.604	154.932	ppb	1.2763	0.8	551.728
Pb 220.353	2029.82	ppb	5.0149	0.2	3524.49
Sb 206.834	2.9562	ppb	2.4262	82.1	16.2441
Se 196.026	-1.6229	ppb	9.6175	592.6	9.5208
Sn 189.925	761.138	ppb	4.6097	0.6	616.081
Sr 216.596	466.703	ppb	0.5971	0.1	7096.14
Ti 334.941	1648.03	ppb	3.8516	0.2	558579
Tl 190.794	-2.0438	ppb	1.2116	59.3	-49.8196
V 292.401	415.207	ppb	1.5522	0.4	12080.3
Zn 206.200	3379.55	ppb	11.7893	0.3	4096.98

680-106803-a-57-a (Samp) **11/5/2014, 5:08:44 AM** **Rack 3, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2522u	-0.1772u	-0.0145u
Al 308.215	134889	135074	135257
As 188.980	253.509	246.578	247.883
B 249.678	20.4598u	19.9527u	20.7207u
Ba 389.178	1922.42	1921.13	1927.68
Be 313.042	12.2651	12.2536	12.2907
Ca 370.602	90529	90564	90665
Cd 226.502	7.8366	7.4994	7.8777
Co 228.615	99.6708	100.265	99.0167
Cr 267.716	363.248	362.749	363.322
Cu 324.754	312.726	314.797	314.400
Fe 271.441	423826	423422	423811
K 766.491	9443.23	9464.06	9475.75
Mg 279.078	15312.3	15306.8	15352.9
Mn 257.610	12007.1	12038.9	12066.9
Mo 202.032	17.4425	17.4082	17.8187
Na 330.237	454.671u	681.613u	589.984u
Ni 231.604	105.360	103.650	105.287
Pb 220.353	1152.30	1147.92	1158.85
Sb 206.834	1.5377	-0.8209	-0.3026
Se 196.026	3.0952	5.4924	-5.0169
Sn 189.925	134.158	137.032	146.536
Sr 216.596	363.573	364.645	364.721
Ti 334.941	1502.36	1500.30	1509.92

Label	Replicates Concentration		
Tl 190.794	-0.7383u	-6.2550u	-2.8070u
V 292.401	556.152	558.155	559.157
Zn 206.200	1928.08	1919.12	1932.12

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1479	ppb	0.1215	82.1	-37.1166
Al 308.215	135074	ppb	183.938	0.1	1000354
As 188.980	249.324	ppb	3.6829	1.5	156.587
B 249.678	20.3777	ppb	0.3905	1.9	-537.510
Ba 389.178	1923.74	ppb	3.4689	0.2	48085.5
Be 313.042	12.2698	ppb	0.0190	0.2	25211.8
Ca 370.602	90586	ppb	70.45	0.1	267873
Cd 226.502	7.7379	ppb	0.2075	2.7	2334.88
Co 228.615	99.6509	ppb	0.6245	0.6	1372.49
Cr 267.716	363.106	ppb	0.3117	0.1	22225.4
Cu 324.754	313.974	ppb	1.0993	0.4	25101.6
Fe 271.441	423686	ppb	229.097	0.1	747578
K 766.491	9461.01	ppb	16.4688	0.2	422727
Mg 279.078	15324.0	ppb	25.2271	0.2	43838.0
Mn 257.610	12037.7	ppb	29.9250	0.2	3076605
Mo 202.032	17.5565	ppb	0.2277	1.3	121.169
Na 330.237	575.423	ppb	114.169	19.8	-92.8470
Ni 231.604	104.765	ppb	0.9670	0.9	389.742
Pb 220.353	1153.02	ppb	5.5035	0.5	2022.00
Sb 206.834	0.1381	ppb	1.2395	897.7	15.0871
Se 196.026	1.1902	ppb	5.5076	462.7	11.6971
Sn 189.925	139.242	ppb	6.4785	4.7	108.933
Sr 216.596	364.313	ppb	0.6418	0.2	5763.68
Ti 334.941	1504.19	ppb	5.0623	0.3	509830
Tl 190.794	-3.2668	ppb	2.7869	85.3	-64.6044
V 292.401	557.821	ppb	1.5298	0.3	16217.6
Zn 206.200	1926.44	ppb	6.6534	0.3	2323.42

680-106803-a-58-a (Samp) **11/5/2014, 5:13:02 AM** **Rack 3, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.0530u	-1.1841u	-0.8807u
Al 308.215	131827	132104	132061
As 188.980	295.283	283.699	282.767
B 249.678	7.2525u	7.7783u	7.8915u
Ba 389.178	1100.32	1100.94	1099.32
Be 313.042	6.9695	6.9838	6.9695
Ca 370.602	48378	48346	48298
Cd 226.502	4.2823	4.7081	4.7942
Co 228.615	65.6136	66.6825	66.0874
Cr 267.716	309.568	309.714	309.379
Cu 324.754	266.496	267.304	267.993
Fe 271.441	360838	360676	361748
K 766.491	7509.39	7522.97	7512.33
Mg 279.078	12266.6	12267.7	12294.9
Mn 257.610	9050.02	9087.99	9092.30
Mo 202.032	16.2506	15.7202	16.1146
Na 330.237	247.166u	-80.1133u	326.816u

Label	Replicates Concentration		
Ni 231.604	88.6805	88.5364	88.6323
Pb 220.353	561.176	552.689	554.514
Sb 206.834	-6.4468	-3.8761	-6.0030
Se 196.026	-3.0721	-8.2073	-8.3596
Sn 189.925	46.6368	44.7199	50.9299
Sr 216.596	174.246	174.761	175.391
Ti 334.941	1259.46	1260.95	1260.38
Tl 190.794	-0.5146u	-3.9341u	-3.0250u
V 292.401	522.961	521.642	522.150
Zn 206.200	1025.52	1014.61	1020.31

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0393	ppb	0.1522	14.6	-113.580
Al 308.215	131997	ppb	149.198	0.1	977482
As 188.980	287.250	ppb	6.9723	2.4	181.653
B 249.678	7.6408	ppb	0.3410	4.5	-608.111
Ba 389.178	1100.19	ppb	0.8200	0.1	27548.6
Be 313.042	6.9743	ppb	0.0082	0.1	14246.6
Ca 370.602	48341	ppb	40.26	0.1	141539
Cd 226.502	4.5949	ppb	0.2741	6.0	1897.36
Co 228.615	66.1278	ppb	0.5356	0.8	923.770
Cr 267.716	309.554	ppb	0.1678	0.1	18947.4
Cu 324.754	267.264	ppb	0.7492	0.3	21403.1
Fe 271.441	361088	ppb	577.929	0.2	637125
K 766.491	7514.90	ppb	7.1424	0.1	335828
Mg 279.078	12276.4	ppb	15.9911	0.1	35126.4
Mn 257.610	9076.77	ppb	23.2660	0.3	2320031
Mo 202.032	16.0285	ppb	0.2755	1.7	112.742
Na 330.237	164.623	ppb	215.657	131.0	-74.2897
Ni 231.604	88.6164	ppb	0.0733	0.1	329.227
Pb 220.353	556.126	ppb	4.4675	0.8	989.989
Sb 206.834	-5.4420	ppb	1.3741	25.3	3.6218
Se 196.026	-6.5463	ppb	3.0097	46.0	6.4200
Sn 189.925	47.4289	ppb	3.1799	6.7	34.0610
Sr 216.596	174.799	ppb	0.5735	0.3	2989.88
Ti 334.941	1260.26	ppb	0.7499	0.1	427158
Tl 190.794	-2.4912	ppb	1.7712	71.1	-56.4424
V 292.401	522.251	ppb	0.6652	0.1	15167.6
Zn 206.200	1020.15	ppb	5.4592	0.5	1223.52

680-106803-b-59-a (Samp) **11/5/2014, 5:17:19 AM** **Rack 3, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.7311u	-1.0833u	-1.2659u
Al 308.215	131136	130864	130731
As 188.980	327.029	323.789	320.102
B 249.678	12.7969u	12.3541u	12.2598u
Ba 389.178	1910.68	1909.07	1905.20
Be 313.042	10.7038	10.7145	10.6847
Ca 370.602	64428	64244	64290
Cd 226.502	7.4902	7.3411	7.0649
Co 228.615	99.8096	99.9477	100.630
Cr 267.716	394.535	393.676	393.379

Label	Replicates Concentration		
Cu 324.754	288.918	288.902	289.373
Fe 271.441	487838	485537	483758
K 766.491	12429.8	12424.8	12371.8
Mg 279.078	14206.3	14171.7	14144.5
Mn 257.610	14943.0	14964.8	14859.0
Mo 202.032	25.1148	24.0225	25.1904
Na 330.237	694.729u	750.621u	782.175u
Ni 231.604	106.801	104.377	103.978
Pb 220.353	914.844	912.627	911.015
Sb 206.834	-5.1173	-7.7265	-7.0870
Se 196.026	-5.5443	-4.4207	-1.6503
Sn 189.925	144.813	156.540	149.952
Sr 216.596	258.214	257.389	254.865
Ti 334.941	1438.35	1443.25	1437.79
Tl 190.794	-4.9623u	-10.6937u	-2.9252u
V 292.401	600.968	602.127	600.229
Zn 206.200	1491.25	1490.62	1480.59

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3601	ppb	0.3340	24.6	-135.578
Al 308.215	130910	ppb	206.842	0.2	969682
As 188.980	323.640	ppb	3.4654	1.1	204.536
B 249.678	12.4703	ppb	0.2868	2.3	-822.840
Ba 389.178	1908.32	ppb	2.8162	0.1	47738.1
Be 313.042	10.7010	ppb	0.0151	0.1	21955.4
Ca 370.602	64320	ppb	96.23	0.1	188214
Cd 226.502	7.2987	ppb	0.2158	3.0	2596.69
Co 228.615	100.129	ppb	0.4391	0.4	1381.83
Cr 267.716	393.863	ppb	0.6003	0.2	24127.7
Cu 324.754	289.064	ppb	0.2672	0.1	23172.8
Fe 271.441	485711	ppb	2045.66	0.4	857013
K 766.491	12408.8	ppb	32.1173	0.3	554354
Mg 279.078	14174.2	ppb	30.9477	0.2	40464.8
Mn 257.610	14922.3	ppb	55.8151	0.4	3813645
Mo 202.032	24.7759	ppb	0.6536	2.6	173.489
Na 330.237	742.508	ppb	44.2840	6.0	-88.2839
Ni 231.604	105.052	ppb	1.5280	1.5	396.517
Pb 220.353	912.829	ppb	1.9222	0.2	1614.03
Sb 206.834	-6.6436	ppb	1.3599	20.5	7.0480
Se 196.026	-3.8718	ppb	2.0042	51.8	10.8457
Sn 189.925	150.435	ppb	5.8783	3.9	118.061
Sr 216.596	256.823	ppb	1.7449	0.7	4323.81
Ti 334.941	1439.80	ppb	3.0037	0.2	488015
Tl 190.794	-6.1937	ppb	4.0280	65.0	-75.4283
V 292.401	601.108	ppb	0.9569	0.2	17484.6
Zn 206.200	1487.49	ppb	5.9818	0.4	1785.74

680-106803-a-60-a (Samp) **11/5/2014, 5:21:36 AM** **Rack 3, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.6570u	-1.6406u	-1.3064u
Al 308.215	125126	125144	125839
As 188.980	345.868	346.523	343.621

Label	Replicates Concentration		
B 249.678	4.3532u	4.2032u	5.1004u
Ba 389.178	727.752	728.494	731.225
Be 313.042	8.5948	8.6126	8.6237
Ca 370.602	64759	64911	64752
Cd 226.502	4.8870	4.8180	5.6106
Co 228.615	82.0726	82.9004	82.7156
Cr 267.716	383.575	384.093	384.648
Cu 324.754	248.617	248.544	249.421
Fe 271.441	438716	438576	440692
K 766.491	7080.92	7087.85	7120.74
Mg 279.078	27433.1	27462.7	27539.2
Mn 257.610	7899.46	7909.21	7935.28
Mo 202.032	18.0060	17.5070	17.9715
Na 330.237	185.833u	-48.2588u	-28.9214u
Ni 231.604	100.549	100.104	99.6786
Pb 220.353	494.583	496.543	496.998
Sb 206.834	0.9173	-6.2931	-5.8264
Se 196.026	-5.5119	-5.7368	1.4271
Sn 189.925	37.7159	40.4886	29.4526
Sr 216.596	143.912	144.976	144.023
Ti 334.941	1188.55	1187.25	1191.71
Tl 190.794	-11.6993u	-1.9808u	-3.6986u
V 292.401	589.226	591.454	590.837
Zn 206.200	915.095	920.438	924.484

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5347	ppb	0.1979	12.9	-176.615
Al 308.215	125370	ppb	406.916	0.3	928616
As 188.980	345.337	ppb	1.5222	0.4	218.909
B 249.678	4.5523	ppb	0.4806	10.6	-847.969
Ba 389.178	729.157	ppb	1.8291	0.3	18387.0
Be 313.042	8.6104	ppb	0.0146	0.2	17636.4
Ca 370.602	64807	ppb	89.75	0.1	189962
Cd 226.502	5.1052	ppb	0.4390	8.6	2277.75
Co 228.615	82.5629	ppb	0.4345	0.5	1142.91
Cr 267.716	384.105	ppb	0.5364	0.1	23476.1
Cu 324.754	248.861	ppb	0.4866	0.2	19992.2
Fe 271.441	439328	ppb	1183.19	0.3	775174
K 766.491	7096.50	ppb	21.2733	0.3	317145
Mg 279.078	27478.3	ppb	54.7769	0.2	78939.0
Mn 257.610	7914.65	ppb	18.5196	0.2	2023594
Mo 202.032	17.8282	ppb	0.2787	1.6	122.394
Na 330.237	36.2177	ppb	129.931	358.7	-96.7175
Ni 231.604	100.110	ppb	0.4352	0.4	375.450
Pb 220.353	496.042	ppb	1.2832	0.3	892.230
Sb 206.834	-3.7341	ppb	4.0349	108.1	9.8739
Se 196.026	-3.2739	ppb	4.0727	124.4	8.8030
Sn 189.925	35.8857	ppb	5.7411	16.0	24.6475
Sr 216.596	144.304	ppb	0.5850	0.4	2674.66
Ti 334.941	1189.17	ppb	2.2982	0.2	403109
Tl 190.794	-5.7929	ppb	5.1867	89.5	-72.1096
V 292.401	590.506	ppb	1.1503	0.2	17158.6
Zn 206.200	920.006	ppb	4.7095	0.5	1097.33

CRI (Samp) **11/5/2014, 5:25:53 AM** **Rack 3, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.5837	10.5269	10.5865
Al 308.215	207.805	205.398	210.208
As 188.980	20.2837	19.2066	14.6833
B 249.678	96.2672	95.6631	98.0771
Ba 389.178	10.6037	10.2719	11.4185
Be 313.042	4.0751	4.0457	4.0879
Ca 370.602	508.7	509.9	511.9
Cd 226.502	4.9781	5.0459	4.9012
Co 228.615	9.7797	9.9532	10.1207
Cr 267.716	10.2354	10.2042	10.3117
Cu 324.754	21.9932	21.8735	21.7662
Fe 271.441	72.2025	73.9720	84.1611
K 766.491	1107.12	1097.87	1113.08
Mg 279.078	504.486	504.209	507.834
Mn 257.610	11.1228	11.1691	11.4431
Mo 202.032	9.7315	9.5484	9.6869
Na 330.237	935.239	839.841	865.052
Ni 231.604	40.3623	40.5419	42.1226
Pb 220.353	10.7418	12.6137	10.4808
Sb 206.834	21.8202	22.4716	19.2910
Se 196.026	20.1270	20.3555	20.8319
Sn 189.925	50.6515	49.2056	48.6461
Sr 216.596	9.3760	9.5472	9.1863
Ti 334.941	10.3901	10.4223	10.4052
Tl 190.794	27.3114	26.2955	23.9134
V 292.401	10.9747	10.3781	10.7599
Zn 206.200	20.0465	20.1301	20.0108

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.5657	ppb	0.0337	0.3	929.830
Al 308.215	207.804	ppb	2.4048	1.2	2037.65
As 188.980	18.0579	ppb	2.9716	16.5	7.3384
B 249.678	96.6691	ppb	1.2562	1.3	1793.21
Ba 389.178	10.7647	ppb	0.5900	5.5	197.524
Be 313.042	4.0696	ppb	0.0217	0.5	8192.80
Ca 370.602	510.2	ppb	1.596	0.3	1575
Cd 226.502	4.9751	ppb	0.0724	1.5	269.437
Co 228.615	9.9512	ppb	0.1705	1.7	130.956
Cr 267.716	10.2504	ppb	0.0553	0.5	663.144
Cu 324.754	21.8776	ppb	0.1136	0.5	1963.25
Fe 271.441	76.7785	ppb	6.4544	8.4	153.246
K 766.491	1106.02	ppb	7.6651	0.7	49652.9
Mg 279.078	505.510	ppb	2.0177	0.4	1475.29
Mn 257.610	11.2450	ppb	0.1731	1.5	2973.43
Mo 202.032	9.6556	ppb	0.0955	1.0	83.4382
Na 330.237	880.044	ppb	49.4344	5.6	76.0613
Ni 231.604	41.0090	ppb	0.9686	2.4	134.088
Pb 220.353	11.2788	ppb	1.1634	10.3	26.7191
Sb 206.834	21.1943	ppb	1.6802	7.9	28.4363
Se 196.026	20.4381	ppb	0.3596	1.8	12.0442
Sn 189.925	49.5011	ppb	1.0348	2.1	35.7520
Sr 216.596	9.3698	ppb	0.1805	1.9	139.229

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	10.4059	ppb	0.0161	0.2	3552.02
Tl 190.794	25.8401	ppb	1.7442	6.7	23.2796
V 292.401	10.7042	ppb	0.3021	2.8	293.288
Zn 206.200	20.0625	ppb	0.0612	0.3	25.7041

mb 680-356624/1-a (Samp) **11/5/2014, 5:30:11 AM** **Rack 3, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0525	-0.2427u	0.0225
Al 308.215	6.9708	8.1836	6.7949
As 188.980	-1.8179u	-7.1304u	0.1880
B 249.678	-2.8023u	-3.3199u	-3.5158u
Ba 389.178	0.6463	0.0704	0.3449
Be 313.042	-0.0429u	-0.0494u	-0.0460u
Ca 370.602	10.50	11.38	7.142
Cd 226.502	-0.1216u	-0.0584u	-0.0866u
Co 228.615	-0.3713u	-0.1342u	-0.3248u
Cr 267.716	-0.0250u	0.0226	0.0788
Cu 324.754	0.5884	0.0462	0.2521
Fe 271.441	11.1391	7.9124	7.9598
K 766.491	8.8599	8.8965	9.4590
Mg 279.078	4.1724	2.5991	5.0306
Mn 257.610	0.1694	0.1847	0.1731
Mo 202.032	-0.2369u	-0.1064u	-0.2794u
Na 330.237	-13.5918u	-118.264u	-37.2031u
Ni 231.604	-0.5740u	-0.0321u	-0.8638u
Pb 220.353	0.0454	-1.1344u	1.1256
Sb 206.834	1.0266	0.6554	1.2002
Se 196.026	3.6452	-3.3953u	2.0790
Sn 189.925	8.7989	10.5711	6.6291
Sr 216.596	-0.5458u	-0.0168u	-0.6992u
Ti 334.941	0.0491	0.1050	-0.0000
Tl 190.794	-0.0490u	-1.8595u	-0.6350u
V 292.401	-0.3055u	0.0776	-0.0122u
Zn 206.200	4.7518	5.1382	6.0284

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0559	ppb	0.1625	290.5	-6.3133
Al 308.215	7.3164	ppb	0.7561	10.3	552.991
As 188.980	-2.9201	ppb	3.7816	129.5	-6.3203
B 249.678	-3.2126	ppb	0.3687	11.5	69.4580
Ba 389.178	0.3538	ppb	0.2880	81.4	-62.4516
Be 313.042	-0.0461	ppb	0.0033	7.1	-317.216
Ca 370.602	9.675	ppb	2.238	23.1	66.54
Cd 226.502	-0.0888	ppb	0.0317	35.6	22.2441
Co 228.615	-0.2768	ppb	0.1256	45.4	-2.6261
Cr 267.716	0.0255	ppb	0.0520	204.1	46.7443
Cu 324.754	0.2956	ppb	0.2737	92.6	267.218
Fe 271.441	9.0038	ppb	1.8494	20.5	32.1403
K 766.491	9.0718	ppb	0.3358	3.7	670.767
Mg 279.078	3.9340	ppb	1.2331	31.3	30.9743
Mn 257.610	0.1758	ppb	0.0080	4.6	141.142
Mo 202.032	-0.2076	ppb	0.0901	43.4	7.3867

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-56.3531	ppb	54.9011	97.4	30.5412
Ni 231.604	-0.4900	ppb	0.4222	86.2	-6.6524
Pb 220.353	0.0122	ppb	1.1304	9239.5	7.3456
Sb 206.834	0.9607	ppb	0.2783	29.0	-2.7567
Se 196.026	0.7763	ppb	3.6966	476.2	2.6583
Sn 189.925	8.6663	ppb	1.9743	22.8	2.4515
Sr 216.596	-0.4206	ppb	0.3580	85.1	2.4432
Ti 334.941	0.0514	ppb	0.0526	102.4	42.3455
Tl 190.794	-0.8478	ppb	0.9238	109.0	-8.2165
V 292.401	-0.0800	ppb	0.2004	250.4	-15.1434
Zn 206.200	5.3061	ppb	0.6547	12.3	7.7792

lcs 680-356624/2-a (Samp) **11/5/2014, 5:34:29 AM** **Rack 3, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.8670	52.5223	52.5283
Al 308.215	5077.38	5070.56	5063.78
As 188.980	102.230	99.7490	101.089
B 249.678	193.403	193.465	193.492
Ba 389.178	103.252	103.370	103.890
Be 313.042	51.7974	51.7897	51.6810
Ca 370.602	5036	5072	5065
Cd 226.502	51.3318	51.2440	51.2567
Co 228.615	51.7523	51.8172	51.4696
Cr 267.716	105.309	105.276	104.836
Cu 324.754	107.504	107.598	107.954
Fe 271.441	5106.65	5098.79	5096.03
K 766.491	5419.79	5399.95	5407.06
Mg 279.078	4992.68	4991.02	4971.23
Mn 257.610	535.095	534.815	534.417
Mo 202.032	101.748	103.067	101.051
Na 330.237	4734.98	4754.03	4784.24
Ni 231.604	102.894	101.794	101.346
Pb 220.353	510.476	513.827	513.802
Sb 206.834	52.9473	54.4764	48.9243
Se 196.026	102.763	107.159	106.746
Sn 189.925	206.630	210.643	212.947
Sr 216.596	100.557	100.353	98.9945
Ti 334.941	104.770	104.700	104.421
Tl 190.794	39.0021	43.7818	42.2060
V 292.401	102.644	102.705	102.814
Zn 206.200	110.103	110.704	109.356

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.3059	ppb	0.3801	0.7	4608.64
Al 308.215	5070.57	ppb	6.8030	0.1	38027.6
As 188.980	101.023	ppb	1.2418	1.2	61.3523
B 249.678	193.453	ppb	0.0457	0.0	3451.81
Ba 389.178	103.504	ppb	0.3399	0.3	2516.11
Be 313.042	51.7560	ppb	0.0651	0.1	106797
Ca 370.602	5058	ppb	18.88	0.4	15234
Cd 226.502	51.2775	ppb	0.0475	0.1	2549.70
Co 228.615	51.6797	ppb	0.1848	0.4	676.078

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	105.140	ppb	0.2644	0.3	6388.09
Cu 324.754	107.685	ppb	0.2376	0.2	8710.17
Fe 271.441	5100.49	ppb	5.5143	0.1	9023.78
K 766.491	5408.93	ppb	10.0560	0.2	241790
Mg 279.078	4984.98	ppb	11.9312	0.2	14363.6
Mn 257.610	534.775	ppb	0.3410	0.1	136761
Mo 202.032	101.955	ppb	1.0240	1.0	794.908
Na 330.237	4757.75	ppb	24.8389	0.5	262.610
Ni 231.604	102.011	ppb	0.7967	0.8	341.364
Pb 220.353	512.702	ppb	1.9274	0.4	889.697
Sb 206.834	52.1160	ppb	2.8679	5.5	75.8679
Se 196.026	105.556	ppb	2.4274	2.3	52.8564
Sn 189.925	210.074	ppb	3.1968	1.5	166.698
Sr 216.596	99.9682	ppb	0.8494	0.8	1421.30
Ti 334.941	104.631	ppb	0.1848	0.2	35490.6
Tl 190.794	41.6633	ppb	2.4356	5.8	41.4654
V 292.401	102.721	ppb	0.0863	0.1	2924.97
Zn 206.200	110.054	ppb	0.6750	0.6	134.668

Cont Calib Verif (CCV) **11/5/2014, 5:38:46 AM** **Rack 3, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	508.442	504.122	510.162
Al 308.215	4832.53	4829.56	4810.04
As 188.980	478.726	482.648	478.812
B 249.678	480.186	483.368	482.949
Ba 389.178	4925.94	4926.51	4912.79
Be 313.042	487.347	489.287	486.317
Ca 370.602	4915	4909	4894
Cd 226.502	491.786	490.717	488.756
Co 228.615	495.974	496.096	491.749
Cr 267.716	5038.22	5037.67	5018.87
Cu 324.754	5112.32	5002.81	5057.21
Fe 271.441	4887.05	4872.37	4857.67
K 766.491	10304.4	10343.1	10297.9
Mg 279.078	4854.95	4851.11	4839.75
Mn 257.610	4976.65	4994.73	4965.77
Mo 202.032	487.609	487.290	484.560
Na 330.237	7164.01	7227.90	7429.94
Ni 231.604	2463.16	2450.51	2443.21
Pb 220.353	497.581	497.650	491.780
Sb 206.834	938.218	942.117	931.616
Se 196.026	4826.12	4844.50	4833.39
Sn 189.925	4935.12	4902.91	4875.27
Sr 216.596	2435.99	2431.61	2424.68
Ti 334.941	488.677	488.851	487.505
Tl 190.794	4968.70	4977.14	4960.24
V 292.401	4885.42	4882.87	4865.05
Zn 206.200	2445.97	2445.68	2436.68

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	507.575	ppb	3.1115	0.6	44700.0	101.51506
Al 308.215	4824.04	ppb	12.2149	0.3	36748.0	96.48090

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	480.062	ppb	2.2401	0.5	308.055	96.01239
B 249.678	482.168	ppb	1.7288	0.4	8448.18	96.43359
Ba 389.178	4921.75	ppb	7.7607	0.2	122431	98.43492
Be 313.042	487.650	ppb	1.5080	0.3	1008433	97.53001
Ca 370.602	4906	ppb	10.48	0.2	15121	98.12019
Cd 226.502	490.420	ppb	1.5367	0.3	23957.4	98.08392
Co 228.615	494.606	ppb	2.4753	0.5	6469.76	98.92122
Cr 267.716	5031.59	ppb	11.0183	0.2	303356	100.63176
Cu 324.754	5057.45	ppb	54.7528	1.1	397563	101.14893
Fe 271.441	4872.36	ppb	14.6929	0.3	8736.14	97.44726
K 766.491	10315.1	ppb	24.4134	0.2	460867	103.15144
Mg 279.078	4848.61	ppb	7.9042	0.2	13873.6	96.97212
Mn 257.610	4979.05	ppb	14.6276	0.3	1271997	99.58105
Mo 202.032	486.486	ppb	1.6758	0.3	3754.66	97.29726
Na 330.237	7273.95	ppb	138.819	1.9	326.270	96.98599
Ni 231.604	2452.29	ppb	10.0923	0.4	8312.15	98.09174
Pb 220.353	495.670	ppb	3.3693	0.7	864.844	99.13409
Sb 206.834	937.317	ppb	5.3080	0.6	1497.87	93.73171
Se 196.026	4834.67	ppb	9.2559	0.2	2310.55	96.69345
Sn 189.925	4904.43	ppb	29.9518	0.6	3994.88	98.08869
Sr 216.596	2430.76	ppb	5.7032	0.2	34176.4	97.23025
Ti 334.941	488.344	ppb	0.7321	0.1	165515	97.66885
Tl 190.794	4968.69	ppb	8.4463	0.2	5864.80	99.37384
V 292.401	4877.78	ppb	11.0977	0.2	140092	97.55563
Zn 206.200	2442.78	ppb	5.2800	0.2	2957.33	97.71104

Cont Calib Blank (CCB) **11/5/2014, 5:43:04 AM** **Rack 3, Tube 38**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0696u	0.0737	0.2454
Al 308.215	0.3760	0.2462	0.8746
As 188.980	1.1859	1.9346	-5.0402u
B 249.678	2.5928	1.8662	0.8019
Ba 389.178	0.6297	0.3635	0.4777
Be 313.042	-0.0175u	-0.0200u	-0.0213u
Ca 370.602	-0.3921u	2.173	1.057
Cd 226.502	-0.0788u	0.0031	-0.0707u
Co 228.615	0.1973	0.4655	-0.2976u
Cr 267.716	0.1365	-0.0243u	0.1834
Cu 324.754	0.2114	0.2044	-0.0903u
Fe 271.441	1.0382	1.6298	0.4702
K 766.491	0.5841	0.6324	0.2880
Mg 279.078	1.1194	2.3138	2.4699
Mn 257.610	0.1785	0.2146	0.2217
Mo 202.032	0.0881	0.1436	0.2173
Na 330.237	-25.3938u	-91.0585u	60.0213
Ni 231.604	1.3653	-0.5170u	-0.4770u
Pb 220.353	-1.5970u	1.1828	1.9522
Sb 206.834	2.9834	1.0109	2.3132
Se 196.026	6.0869	7.1776	8.3458
Sn 189.925	-0.3378u	-0.5394u	-0.8270u
Sr 216.596	-0.6650u	0.1117	-0.1512u
Ti 334.941	0.0663	0.0746	0.0029

Label	Replicates Concentration		
Tl 190.794	-2.2648u	-2.2052u	1.8783
V 292.401	0.3917	0.1963	0.4189
Zn 206.200	-0.0626u	-0.4516u	0.3824

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0832	ppb	0.1577	189.5	5.9326	0.08319
Al 308.215	0.4989	ppb	0.3318	66.5	502.619	0.49892
As 188.980	-0.6399	ppb	3.8291	598.4	-4.8356	-0.63988
B 249.678	1.7536	ppb	0.9007	51.4	155.188	1.75365
Ba 389.178	0.4903	ppb	0.1335	27.2	-59.0611	0.49033
Be 313.042	-0.0196	ppb	0.0019	9.9	-262.467	-0.01961
Ca 370.602	0.9461	ppb	1.286	136.0	40.42	0.94610
Cd 226.502	-0.0488	ppb	0.0451	92.4	24.1576	-0.04883
Co 228.615	0.1217	ppb	0.3871	318.0	2.5782	0.12175
Cr 267.716	0.0985	ppb	0.1089	110.6	51.1414	0.09855
Cu 324.754	0.1085	ppb	0.1722	158.7	252.524	0.10851
Fe 271.441	1.0461	ppb	0.5798	55.4	18.1420	1.04607
K 766.491	0.5015	ppb	0.1865	37.2	288.078	0.50150
Mg 279.078	1.9677	ppb	0.7388	37.5	25.3125	1.96771
Mn 257.610	0.2049	ppb	0.0232	11.3	148.542	0.20492
Mo 202.032	0.1496	ppb	0.0648	43.3	10.1415	0.14963
Na 330.237	-18.8103	ppb	75.7548	402.7	32.5103	-18.81031
Ni 231.604	0.1237	ppb	1.0754	869.0	-4.5722	0.12375
Pb 220.353	0.5127	ppb	1.8671	364.2	8.2056	0.51269
Sb 206.834	2.1025	ppb	1.0030	47.7	-1.0026	2.10252
Se 196.026	7.2034	ppb	1.1297	15.7	5.7251	7.20341
Sn 189.925	-0.5681	ppb	0.2458	43.3	-5.0790	-0.56807
Sr 216.596	-0.2349	ppb	0.3950	168.2	5.0399	-0.23487
Ti 334.941	0.0479	ppb	0.0392	81.8	41.1705	0.04791
Tl 190.794	-0.8639	ppb	2.3750	274.9	-8.2337	-0.86389
V 292.401	0.3356	ppb	0.1214	36.2	-3.2426	0.33562
Zn 206.200	-0.0439	ppb	0.4173	950.0	1.2664	-0.04393

680-106803-a-25-a (Samp) **11/5/2014, 5:47:22 AM** **Rack 3, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-2.6281u	-2.2489u	-1.9338u
Al 308.215	106850	107057	106959
As 188.980	407.891	409.636	406.069
B 249.678	2.8146u	1.5603u	1.3799u
Ba 389.178	194.955	193.817	194.042
Be 313.042	5.8722	5.8766	5.8700
Ca 370.602	14315	14346	14285
Cd 226.502	1.3097	1.3204	1.2283
Co 228.615	60.8074	59.3019	60.2067
Cr 267.716	180.622	181.489	180.876
Cu 324.754	331.866	334.385	330.115
Fe 271.441	354691	354734	353151
K 766.491	6071.36	6077.58	6053.64
Mg 279.078	5411.84	5421.79	5405.29
Mn 257.610	3399.74	3412.74	3407.67
Mo 202.032	14.8756	15.5818	15.6612
Na 330.237	108.086u	201.029u	6.3005u

Label	Replicates Concentration		
Ni 231.604	147.971	144.975	146.568
Pb 220.353	241.046	242.483	241.565
Sb 206.834	-2.5687	-4.2366	-1.9116
Se 196.026	-10.0141	-15.1002u	7.2444
Sn 189.925	19.1441	20.6214	17.0315
Sr 216.596	67.0343	67.1328	66.0577
Ti 334.941	906.606	907.677	905.575
Tl 190.794	2.3833u	-5.8586u	0.2369u
V 292.401	447.805	448.274	447.815
Zn 206.200	526.239	530.130	526.918

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.2703	ppb	0.3477	15.3	-247.505
Al 308.215	106955	ppb	103.711	0.1	792248
As 188.980	407.865	ppb	1.7833	0.4	259.982
B 249.678	1.9183	ppb	0.7815	40.7	-689.364
Ba 389.178	194.272	ppb	0.6027	0.3	4989.50
Be 313.042	5.8729	ppb	0.0033	0.1	11951.6
Ca 370.602	14315	ppb	30.66	0.2	39078
Cd 226.502	1.2861	ppb	0.0504	3.9	1702.65
Co 228.615	60.1053	ppb	0.7578	1.3	835.594
Cr 267.716	180.995	ppb	0.4456	0.2	11162.1
Cu 324.754	332.122	ppb	2.1462	0.6	26496.9
Fe 271.441	354192	ppb	901.802	0.3	624956
K 766.491	6067.53	ppb	12.4233	0.2	271198
Mg 279.078	5412.97	ppb	8.3093	0.2	15492.5
Mn 257.610	3406.71	ppb	6.5525	0.2	871595
Mo 202.032	15.3729	ppb	0.4325	2.8	108.171
Na 330.237	105.138	ppb	97.3975	92.6	-62.1606
Ni 231.604	146.505	ppb	1.4992	1.0	524.904
Pb 220.353	241.698	ppb	0.7277	0.3	447.688
Sb 206.834	-2.9056	ppb	1.1986	41.3	5.6766
Se 196.026	-5.9567	ppb	11.7119	196.6	5.2460
Sn 189.925	18.9323	ppb	1.8043	9.5	10.8225
Sr 216.596	66.7416	ppb	0.5943	0.9	1441.10
Ti 334.941	906.620	ppb	1.0511	0.1	307307
Tl 190.794	-1.0795	ppb	4.2757	396.1	-56.9932
V 292.401	447.965	ppb	0.2679	0.1	13026.6
Zn 206.200	527.763	ppb	2.0786	0.4	624.930

680-106803-a-25-aSD^ (Samp) **11/5/2014, 5:51:40 AM** **Rack 3, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8413u	-0.7771u	-0.9153u
Al 308.215	21491.4	21537.9	21524.6
As 188.980	79.1675	82.7235	81.4348
B 249.678	-2.4745u	-2.5426u	-2.6613u
Ba 389.178	40.2075	40.1913	40.9479
Be 313.042	1.1443	1.1360	1.1467
Ca 370.602	2955	2948	2946
Cd 226.502	-0.0425	0.0325	-0.2813
Co 228.615	12.5846	12.1850	12.3603
Cr 267.716	36.8129	36.9947	37.0336

Label	Replicates Concentration		
Cu 324.754	64.7288	65.8181	65.1679
Fe 271.441	73916.8	74015.1	73990.1
K 766.491	1171.48	1173.54	1172.91
Mg 279.078	1145.93	1141.46	1147.67
Mn 257.610	712.528	714.703	714.873
Mo 202.032	2.7868	3.0668	2.6886
Na 330.237	-58.1151u	56.8496u	29.6811u
Ni 231.604	30.8476	29.9930	29.5345
Pb 220.353	47.2874	50.4911	50.7126
Sb 206.834	-0.3876	-3.0914u	-0.3628
Se 196.026	6.4829	0.0118	3.7075
Sn 189.925	4.4133	1.7677	3.3999
Sr 216.596	13.8736	13.5025	13.4032
Ti 334.941	185.754	185.888	185.514
Tl 190.794	1.5108u	0.1083u	-1.4573u
V 292.401	91.8889	91.6076	91.1998
Zn 206.200	106.638	107.075	111.101

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8446	ppb	0.0691	8.2	-85.4477
Al 308.215	21518.0	ppb	23.9754	0.1	159793
As 188.980	81.1086	ppb	1.8003	2.2	48.1400
B 249.678	-2.5595	ppb	0.0945	3.7	-96.2266
Ba 389.178	40.4489	ppb	0.4322	1.1	982.591
Be 313.042	1.1423	ppb	0.0056	0.5	2146.38
Ca 370.602	2950	ppb	4.435	0.2	8069
Cd 226.502	-0.0971	ppb	0.1639	168.7	358.784
Co 228.615	12.3766	ppb	0.2003	1.6	172.916
Cr 267.716	36.9471	ppb	0.1178	0.3	2315.50
Cu 324.754	65.2383	ppb	0.5480	0.8	5402.79
Fe 271.441	73974.0	ppb	51.0608	0.1	130537
K 766.491	1172.65	ppb	1.0551	0.1	52627.7
Mg 279.078	1145.02	ppb	3.2056	0.3	3293.26
Mn 257.610	714.034	ppb	1.3077	0.2	182758
Mo 202.032	2.8474	ppb	0.1962	6.9	26.9030
Na 330.237	9.4719	ppb	60.0877	634.4	12.8837
Ni 231.604	30.1250	ppb	0.6664	2.2	104.075
Pb 220.353	49.4970	ppb	1.9168	3.9	97.6202
Sb 206.834	-1.2806	ppb	1.5682	122.5	-3.2182
Se 196.026	3.4007	ppb	3.2464	95.5	5.1226
Sn 189.925	3.1936	ppb	1.3348	41.8	-2.0116
Sr 216.596	13.5931	ppb	0.2479	1.8	302.894
Ti 334.941	185.719	ppb	0.1894	0.1	62971.1
Tl 190.794	0.0539	ppb	1.4848	2752.2	-17.2835
V 292.401	91.5655	ppb	0.3465	0.4	2653.12
Zn 206.200	108.271	ppb	2.4601	2.3	129.188

680-106803-a-25-aPDS (Samp) **11/5/2014, 5:55:58 AM** **Rack 3, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	94.3441	93.7579	94.6486
Al 308.215	107722	107226	107415
As 188.980	497.010	496.144	498.934

Label	Replicates Concentration		
B 249.678	184.039	181.992	183.133
Ba 389.178	271.591	270.953	271.690
Be 313.042	99.4167	99.1812	99.3686
Ca 370.602	23647	23579	23592
Cd 226.502	92.1818	91.8458	92.4372
Co 228.615	151.543	151.255	150.641
Cr 267.716	276.351	275.035	276.353
Cu 324.754	425.082	424.649	428.841
Fe 271.441	359225	358722	359181
K 766.491	16060.1	16010.5	16044.9
Mg 279.078	14284.7	14215.5	14241.9
Mn 257.610	4317.52	4291.12	4296.63
Mo 202.032	107.473	107.772	107.265
Na 330.237	7931.95	7848.09	7820.47
Ni 231.604	239.147	239.313	239.329
Pb 220.353	333.929	327.658	332.571
Sb 206.834	88.1204	90.6959	82.3331
Se 196.026	93.9005	95.1640	82.7327
Sn 189.925	110.082	108.185	109.125
Sr 216.596	155.428	154.839	155.284
Ti 334.941	984.412	979.913	982.382
Tl 190.794	12.5390u	18.4145u	14.0303u
V 292.401	536.988	534.068	538.627
Zn 206.200	617.274	614.862	614.451

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	94.2502	ppb	0.4527	0.5	8262.79
Al 308.215	107455	ppb	250.361	0.2	795965
As 188.980	497.363	ppb	1.4282	0.3	318.204
B 249.678	183.055	ppb	1.0260	0.6	2425.67
Ba 389.178	271.411	ppb	0.3998	0.1	6926.68
Be 313.042	99.3222	ppb	0.1244	0.1	205191
Ca 370.602	23606	ppb	35.81	0.2	66989
Cd 226.502	92.1549	ppb	0.2966	0.3	6155.72
Co 228.615	151.146	ppb	0.4610	0.3	2024.67
Cr 267.716	275.913	ppb	0.7601	0.3	16890.2
Cu 324.754	426.191	ppb	2.3051	0.5	33892.9
Fe 271.441	359042	ppb	278.719	0.1	633528
K 766.491	16038.5	ppb	25.4023	0.2	716432
Mg 279.078	14247.4	ppb	34.8920	0.2	40917.5
Mn 257.610	4301.76	ppb	13.9278	0.3	1100320
Mo 202.032	107.503	ppb	0.2547	0.2	818.336
Na 330.237	7866.84	ppb	58.0552	0.7	315.044
Ni 231.604	239.263	ppb	0.1009	0.0	839.761
Pb 220.353	331.386	ppb	3.2990	1.0	602.430
Sb 206.834	87.0498	ppb	4.2829	4.9	144.285
Se 196.026	90.5991	ppb	6.8417	7.6	51.6052
Sn 189.925	109.131	ppb	0.9485	0.9	84.3812
Sr 216.596	155.184	ppb	0.3071	0.2	2693.74
Ti 334.941	982.235	ppb	2.2532	0.2	332948
Tl 190.794	14.9946	ppb	3.0541	20.4	-38.1538
V 292.401	536.561	ppb	2.3096	0.4	15559.6
Zn 206.200	615.529	ppb	1.5250	0.2	731.183

680-106803-a-25-b ms (Samp) **11/5/2014, 6:00:17 AM** **Rack 3, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	47.3348	47.2486	47.3660
Al 308.215	128315	128282	128699
As 188.980	499.625	488.394	490.775
B 249.678	129.781	129.291	129.778
Ba 389.178	272.198	272.248	272.602
Be 313.042	52.6194	52.6123	52.7116
Ca 370.602	18178	18146	18168
Cd 226.502	48.2893	47.8480	48.4974
Co 228.615	99.3484	100.039	99.0465
Cr 267.716	280.890	280.075	281.203
Cu 324.754	401.268	407.497	408.356
Fe 271.441	343025	343679	344976
K 766.491	11263.0	11267.5	11304.1
Mg 279.078	9764.42	9762.94	9805.58
Mn 257.610	4073.12	4073.59	4085.43
Mo 202.032	101.413	101.221	100.769
Na 330.237	4635.14	4628.78	4388.87
Ni 231.604	228.417	226.888	232.105
Pb 220.353	669.691	666.705	674.721
Sb 206.834	12.2799	13.6287	15.2951
Se 196.026	81.9602	86.9467	89.6691
Sn 189.925	196.089	196.678	195.627
Sr 216.596	150.740	151.227	151.518
Ti 334.941	945.200	945.008	948.087
Tl 190.794	36.0280u	31.8540u	34.1979u
V 292.401	550.832	551.196	550.681
Zn 206.200	528.261	526.690	527.348

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.3164	ppb	0.0608	0.1	4126.88
Al 308.215	128432	ppb	231.565	0.2	951089
As 188.980	492.931	ppb	5.9178	1.2	315.632
B 249.678	129.617	ppb	0.2820	0.2	1538.55
Ba 389.178	272.349	ppb	0.2203	0.1	6933.80
Be 313.042	52.6477	ppb	0.0554	0.1	108674
Ca 370.602	18164	ppb	16.69	0.1	50806
Cd 226.502	48.2116	ppb	0.3316	0.7	3944.56
Co 228.615	99.4778	ppb	0.5085	0.5	1347.68
Cr 267.716	280.722	ppb	0.5826	0.2	17171.3
Cu 324.754	405.707	ppb	3.8683	1.0	32276.0
Fe 271.441	343893	ppb	992.958	0.3	606793
K 766.491	11278.2	ppb	22.5358	0.2	503871
Mg 279.078	9777.65	ppb	24.2025	0.2	28040.4
Mn 257.610	4077.38	ppb	6.9717	0.2	1042913
Mo 202.032	101.134	ppb	0.3308	0.3	770.002
Na 330.237	4550.93	ppb	140.383	3.1	158.324
Ni 231.604	229.137	ppb	2.6815	1.2	804.150
Pb 220.353	670.372	ppb	4.0511	0.6	1184.23
Sb 206.834	13.7346	ppb	1.5104	11.0	30.7206
Se 196.026	86.1920	ppb	3.9094	4.5	49.2358
Sn 189.925	196.131	ppb	0.5271	0.3	155.327
Sr 216.596	151.162	ppb	0.3927	0.3	2614.14

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	946.098	ppb	1.7253	0.2	320693
Tl 190.794	34.0267	ppb	2.0923	6.1	-13.7549
V 292.401	550.903	ppb	0.2649	0.0	15966.6
Zn 206.200	527.433	ppb	0.7887	0.1	624.699

680-106803-a-25-c ms (Samp) **11/5/2014, 6:04:35 AM** **Rack 3, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	47.1801	46.8528	46.7041
Al 308.215	122863	122607	123356
As 188.980	508.345	504.466	507.077
B 249.678	128.740	129.234	130.021
Ba 389.178	301.989	300.560	302.277
Be 313.042	53.5177	53.4466	53.7087
Ca 370.602	19038	19052	19146
Cd 226.502	48.5258	47.8742	48.9610
Co 228.615	104.763	103.771	104.567
Cr 267.716	269.940	269.579	271.006
Cu 324.754	426.741	429.342	432.928
Fe 271.441	339154	338192	340290
K 766.491	12014.5	12014.0	12063.7
Mg 279.078	10430.7	10421.4	10470.1
Mn 257.610	3275.67	3264.52	3286.48
Mo 202.032	99.9519	99.9582	100.070
Na 330.237	4707.97	4638.01	4608.43
Ni 231.604	214.059	215.653	219.190
Pb 220.353	702.654	706.501	704.975
Sb 206.834	22.7626	10.6136	19.6853
Se 196.026	91.2447	95.5589	92.0337
Sn 189.925	199.113	195.857	197.843
Sr 216.596	166.815	165.516	166.562
Ti 334.941	895.965	895.697	899.914
Tl 190.794	34.3049u	25.7285u	34.4369u
V 292.401	534.163	534.843	539.188
Zn 206.200	544.521	549.816	546.710

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.9123	ppb	0.2435	0.5	4087.20
Al 308.215	122942	ppb	380.566	0.3	910476
As 188.980	506.629	ppb	1.9776	0.4	324.526
B 249.678	129.332	ppb	0.6460	0.5	1545.04
Ba 389.178	301.609	ppb	0.9199	0.3	7660.02
Be 313.042	53.5577	ppb	0.1355	0.3	110555
Ca 370.602	19079	ppb	58.54	0.3	53571
Cd 226.502	48.4537	ppb	0.5469	1.1	3934.82
Co 228.615	104.367	ppb	0.5251	0.5	1410.03
Cr 267.716	270.175	ppb	0.7418	0.3	16528.6
Cu 324.754	429.671	ppb	3.1063	0.7	34156.9
Fe 271.441	339212	ppb	1050.53	0.3	598533
K 766.491	12030.8	ppb	28.5547	0.2	537474
Mg 279.078	10440.7	ppb	25.8008	0.2	29970.0
Mn 257.610	3275.56	ppb	10.9804	0.3	838087
Mo 202.032	99.9935	ppb	0.0666	0.1	761473

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	4651.47	ppb	51.1169	1.1	163.931
Ni 231.604	216.301	ppb	2.6262	1.2	760.154
Pb 220.353	704.710	ppb	1.9373	0.3	1242.89
Sb 206.834	17.6872	ppb	6.3162	35.7	36.5513
Se 196.026	92.9457	ppb	2.2972	2.5	52.2006
Sn 189.925	197.604	ppb	1.6412	0.8	156.529
Sr 216.596	166.298	ppb	0.6886	0.4	2821.72
Ti 334.941	897.192	ppb	2.3614	0.3	304121
Tl 190.794	31.4901	ppb	4.9901	15.8	-16.5100
V 292.401	536.065	ppb	2.7261	0.5	15537.5
Zn 206.200	547.015	ppb	2.6606	0.5	648.818

680-106803-a-21-a (Samp) **11/5/2014, 6:08:53 AM** **Rack 3, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-3.8770u	-3.4777u	-3.9451u
Al 308.215	131272	131566	131587
As 188.980	390.504	390.565	398.830
B 249.678	1.9249u	2.5983u	2.3791u
Ba 389.178	198.701	199.754	199.672
Be 313.042	7.0148	7.0170	7.0276
Ca 370.602	16401	16461	16447
Cd 226.502	2.3894	2.1010	2.3280
Co 228.615	135.018	137.690	135.783
Cr 267.716	218.391	218.412	218.431
Cu 324.754	306.792	305.714	304.295
Fe 271.441	421019	417581	418821
K 766.491	7011.94	7020.01	7016.48
Mg 279.078	5566.94	5567.88	5569.03
Mn 257.610	4998.62	4997.54	5004.46
Mo 202.032	19.6007	18.6264	19.0589
Na 330.237	-111.690u	-169.843u	78.0996u
Ni 231.604	158.426	158.832	159.514
Pb 220.353	270.348	272.356	266.366
Sb 206.834	-2.7037	-2.3321	-11.3570u
Se 196.026	0.2293	4.6612	4.9111
Sn 189.925	25.6504	25.4019	25.7957
Sr 216.596	67.9404	67.3779	67.9079
Ti 334.941	1264.53	1266.32	1267.40
Tl 190.794	-5.2158u	-0.1258u	-2.8707u
V 292.401	552.892	553.829	552.842
Zn 206.200	497.366	489.995	496.474

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.7666	ppb	0.2525	6.7	-382.181
Al 308.215	131475	ppb	175.610	0.1	973728
As 188.980	393.300	ppb	4.7893	1.2	250.329
B 249.678	2.3007	ppb	0.3435	14.9	-838.765
Ba 389.178	199.376	ppb	0.5854	0.3	5156.91
Be 313.042	7.0198	ppb	0.0068	0.1	14329.8
Ca 370.602	16436	ppb	31.55	0.2	44836
Cd 226.502	2.2728	ppb	0.1519	6.7	2047.68
Co 228.615	136.163	ppb	1.3762	1.0	1843.13

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	218.411	ppb	0.0203	0.0	13461.0
Cu 324.754	305.600	ppb	1.2528	0.4	24441.7
Fe 271.441	419140	ppb	1741.29	0.4	739561
K 766.491	7016.14	ppb	4.0431	0.1	313557
Mg 279.078	5567.95	ppb	1.0507	0.0	15894.2
Mn 257.610	5000.21	ppb	3.7244	0.1	1278864
Mo 202.032	19.0953	ppb	0.4882	2.6	133.283
Na 330.237	-67.8110	ppb	129.665	191.2	-86.2318
Ni 231.604	158.924	ppb	0.5498	0.3	572.920
Pb 220.353	269.690	ppb	3.0489	1.1	500.376
Sb 206.834	-5.4643	ppb	5.1066	93.5	4.4143
Se 196.026	3.2672	ppb	2.6339	80.6	10.9455
Sn 189.925	25.6160	ppb	0.1991	0.8	16.2727
Sr 216.596	67.7421	ppb	0.3158	0.5	1545.88
Ti 334.941	1266.08	ppb	1.4530	0.1	429125
Tl 190.794	-2.7374	ppb	2.5477	93.1	-67.0868
V 292.401	553.187	ppb	0.5562	0.1	16084.9
Zn 206.200	494.612	ppb	4.0226	0.8	581.083

680-106803-a-22-a (Samp) **11/5/2014, 6:13:11 AM** **Rack 3, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-3.6704u	-3.8392u	-3.7488u
Al 308.215	120224	119851	120090
As 188.980	380.579	373.932	384.817
B 249.678	0.0576u	-2.0402u	-0.0102u
Ba 389.178	326.391	326.284	325.922
Be 313.042	6.2676	6.2444	6.2421
Ca 370.602	18438	18498	18527
Cd 226.502	3.9362	3.7583	3.7641
Co 228.615	148.937	149.988	148.314
Cr 267.716	327.972	327.965	327.883
Cu 324.754	293.067	292.485	290.256
Fe 271.441	473602	474696	474812
K 766.491	6345.25	6325.79	6307.48
Mg 279.078	5870.98	5864.26	5864.44
Mn 257.610	7260.07	7255.71	7258.04
Mo 202.032	20.3386	20.3882	20.3412
Na 330.237	-38.6128u	129.887u	20.0469u
Ni 231.604	130.387	129.421	131.586
Pb 220.353	462.856	468.783	457.321
Sb 206.834	-5.8302	-3.7498	-1.9289
Se 196.026	1.0101	6.9113	-2.2094
Sn 189.925	22.3323	27.8940	22.1639
Sr 216.596	75.6397	76.3754	75.5396
Ti 334.941	1310.95	1307.40	1307.88
Tl 190.794	-6.1754u	-4.3270u	-2.6243u
V 292.401	686.440	686.306	686.832
Zn 206.200	642.418	650.228	647.708

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.7528	ppb	0.0845	2.3	-378.800
Al 308.215	120055	ppb	188.799	0.2	889384

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	379.776	ppb	5.4869	1.4	241.052
B 249.678	-0.6642	ppb	1.1921	179.5	-1022.39
Ba 389.178	326.199	ppb	0.2457	0.1	8347.56
Be 313.042	6.2514	ppb	0.0141	0.2	12746.0
Ca 370.602	18488	ppb	45.20	0.2	50381
Cd 226.502	3.8195	ppb	0.1011	2.6	2375.32
Co 228.615	149.080	ppb	0.8460	0.6	2017.49
Cr 267.716	327.940	ppb	0.0497	0.0	20104.3
Cu 324.754	291.936	ppb	1.4837	0.5	23391.6
Fe 271.441	474370	ppb	667.752	0.1	837010
K 766.491	6326.18	ppb	18.8872	0.3	282748
Mg 279.078	5866.56	ppb	3.8287	0.1	16709.4
Mn 257.610	7257.94	ppb	2.1799	0.0	1855773
Mo 202.032	20.3560	ppb	0.0279	0.1	139.896
Na 330.237	37.1073	ppb	85.5357	230.5	-98.4687
Ni 231.604	130.465	ppb	1.0844	0.8	481.519
Pb 220.353	462.987	ppb	5.7323	1.2	837.716
Sb 206.834	-3.8363	ppb	1.9521	50.9	10.2191
Se 196.026	1.9040	ppb	4.6256	242.9	11.6134
Sn 189.925	24.1301	ppb	3.2608	13.5	15.0609
Sr 216.596	75.8516	ppb	0.4564	0.6	1738.73
Ti 334.941	1308.74	ppb	1.9306	0.1	443588
Tl 190.794	-4.3756	ppb	1.7761	40.6	-75.5242
V 292.401	686.526	ppb	0.2731	0.0	19940.8
Zn 206.200	646.785	ppb	3.9859	0.6	763.097

680-106803-a-23-a (Samp) **11/5/2014, 6:17:29 AM** **Rack 3, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6798u	-0.6443u	-1.2713u
Al 308.215	110803	110842	110981
As 188.980	450.617	446.573	443.784
B 249.678	5.8240u	3.3209u	3.7385u
Ba 389.178	760.387	760.766	761.832
Be 313.042	7.4198	7.4428	7.4485
Ca 370.602	42120	42177	42143
Cd 226.502	4.7451	4.8701	4.9498
Co 228.615	54.2764	55.8468	56.0024
Cr 267.716	292.564	292.758	293.608
Cu 324.754	350.663	350.361	347.106
Fe 271.441	339940	340720	341095
K 766.491	8702.69	8703.78	8728.44
Mg 279.078	17502.3	17511.8	17522.7
Mn 257.610	6738.34	6747.51	6754.76
Mo 202.032	19.8155	19.7291	20.2948
Na 330.237	-21.0986u	194.834u	87.7163u
Ni 231.604	122.239	122.929	120.493
Pb 220.353	582.240	582.520	581.754
Sb 206.834	-2.3727	-1.1287	0.0089
Se 196.026	-0.2503	-0.9945	2.1824
Sn 189.925	57.4241	52.6305	54.4299
Sr 216.596	117.606	116.483	116.398
Ti 334.941	954.555	956.371	958.038

Label	Replicates Concentration		
Tl 190.794	-4.1643u	-3.1047u	-1.5078u
V 292.401	429.225	432.060	430.678
Zn 206.200	1291.67	1294.19	1294.67

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8651	ppb	0.3522	40.7	-105.412
Al 308.215	110875	ppb	93.5419	0.1	821214
As 188.980	446.991	ppb	3.4361	0.8	285.583
B 249.678	4.2945	ppb	1.3410	31.2	-616.392
Ba 389.178	760.995	ppb	0.7492	0.1	19103.0
Be 313.042	7.4370	ppb	0.0152	0.2	15194.0
Ca 370.602	42147	ppb	28.35	0.1	122984
Cd 226.502	4.8550	ppb	0.1032	2.1	1816.02
Co 228.615	55.3752	ppb	0.9547	1.7	774.131
Cr 267.716	292.977	ppb	0.5551	0.2	17924.5
Cu 324.754	349.377	ppb	1.9725	0.6	27846.9
Fe 271.441	340585	ppb	589.366	0.2	600949
K 766.491	8711.64	ppb	14.5632	0.2	389266
Mg 279.078	17512.3	ppb	10.2209	0.1	50266.2
Mn 257.610	6746.87	ppb	8.2302	0.1	1724861
Mo 202.032	19.9464	ppb	0.3047	1.5	144.173
Na 330.237	87.1507	ppb	107.967	123.9	-79.4785
Ni 231.604	121.887	ppb	1.2555	1.0	440.171
Pb 220.353	582.171	ppb	0.3874	0.1	1033.25
Sb 206.834	-1.1642	ppb	1.1912	102.3	9.2109
Se 196.026	0.3126	ppb	1.6615	531.6	8.8463
Sn 189.925	54.8282	ppb	2.4215	4.4	40.0950
Sr 216.596	116.829	ppb	0.6742	0.6	2140.96
Ti 334.941	956.321	ppb	1.7420	0.2	324172
Tl 190.794	-2.9256	ppb	1.3373	45.7	-55.4596
V 292.401	430.654	ppb	1.4179	0.3	12517.8
Zn 206.200	1293.51	ppb	1.6098	0.1	1557.43

680-106803-a-24-a (Samp) **11/5/2014, 6:21:47 AM** **Rack 3, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-2.8812u	-2.6492u	-2.5245u
Al 308.215	116130	117037	117114
As 188.980	486.188	493.901	488.533
B 249.678	1.4118u	0.4991u	1.3204u
Ba 389.178	629.683	633.240	632.593
Be 313.042	5.2837	5.3272	5.3250
Ca 370.602	19558	19770	19788
Cd 226.502	1.9142	1.9936	2.3529
Co 228.615	90.6185	92.6962	92.1816
Cr 267.716	234.092	235.599	235.364
Cu 324.754	369.697	371.532	371.139
Fe 271.441	383590	388734	386678
K 766.491	7249.21	7291.11	7306.15
Mg 279.078	6534.13	6588.83	6583.97
Mn 257.610	3471.15	3509.76	3493.55
Mo 202.032	16.9105	16.9208	16.6852
Na 330.237	-115.863u	-77.8210u	43.0686u

Label	Replicates Concentration		
Ni 231.604	136.814	138.921	138.541
Pb 220.353	566.931	574.771	572.207
Sb 206.834	-6.1766	-7.9986	-4.4762
Se 196.026	-8.8490	-0.1488	-3.0649
Sn 189.925	28.7519	29.6656	31.8972
Sr 216.596	79.5384	80.0869	79.7636
Ti 334.941	996.493	1002.72	1002.10
Tl 190.794	-5.3608u	-6.1332u	-6.2809u
V 292.401	515.139	520.673	519.530
Zn 206.200	593.134	600.531	597.583

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.6850	ppb	0.1810	6.7	-289.714
Al 308.215	116760	ppb	547.077	0.5	864835
As 188.980	489.541	ppb	3.9542	0.8	313.057
B 249.678	1.0771	ppb	0.5026	46.7	-781.616
Ba 389.178	631.839	ppb	1.8948	0.3	15900.2
Be 313.042	5.3120	ppb	0.0245	0.5	10797.5
Ca 370.602	19705	ppb	127.6	0.6	54910
Cd 226.502	2.0869	ppb	0.2337	11.2	1889.58
Co 228.615	91.8321	ppb	1.0820	1.2	1255.07
Cr 267.716	235.018	ppb	0.8108	0.3	14436.2
Cu 324.754	370.789	ppb	0.9659	0.3	29549.0
Fe 271.441	386334	ppb	2589.10	0.7	681672
K 766.491	7282.16	ppb	29.5070	0.4	325435
Mg 279.078	6568.98	ppb	30.2775	0.5	18816.2
Mn 257.610	3491.49	ppb	19.3900	0.6	893374
Mo 202.032	16.8388	ppb	0.1331	0.8	117.662
Na 330.237	-50.2051	ppb	82.9866	165.3	-79.5122
Ni 231.604	138.092	ppb	1.1226	0.8	499.319
Pb 220.353	571.303	ppb	3.9975	0.7	1016.98
Sb 206.834	-6.2172	ppb	1.7616	28.3	2.3540
Se 196.026	-4.0209	ppb	4.4282	110.1	6.6470
Sn 189.925	30.1049	ppb	1.6180	5.4	19.9335
Sr 216.596	79.7963	ppb	0.2757	0.3	1672.67
Ti 334.941	1000.44	ppb	3.4320	0.3	339106
Tl 190.794	-5.9250	ppb	0.4941	8.3	-67.1371
V 292.401	518.447	ppb	2.9216	0.6	15067.2
Zn 206.200	597.083	ppb	3.7234	0.6	707.456

680-106803-a-26-a (Samp) **11/5/2014, 6:26:05 AM** **Rack 3, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0411	-1.0369	0.1263
Al 308.215	117583	117568	117545
As 188.980	506.510	493.634	480.512
B 249.678	6.4448u	7.3720u	7.3141u
Ba 389.178	2102.17	2101.90	2102.68
Be 313.042	9.1166	9.1385	9.1299
Ca 370.602	43858	43858	43837
Cd 226.502	8.2199	7.8966	7.8693
Co 228.615	81.2817	81.3656	81.8277
Cr 267.716	549.701	549.272	548.535

Label	Replicates Concentration		
Cu 324.754	882.365	872.080	882.933
Fe 271.441	356117	355682	355450
K 766.491	9899.68	9898.41	9923.47
Mg 279.078	11463.7	11458.3	11468.7
Mn 257.610	48842.5x	49106.6x	48647.6x
Mo 202.032	24.3419	25.4271	24.0797
Na 330.237	572.773u	617.750u	479.914u
Ni 231.604	272.237	274.461	271.583
Pb 220.353	1676.84	1685.13	1668.68
Sb 206.834	-0.7792	2.8132	-0.5593
Se 196.026	5.0052	4.0361	12.6701
Sn 189.925	80.9055	80.8917	79.5254
Sr 216.596	255.115	256.211	254.581
Ti 334.941	1174.61	1175.89	1175.33
Tl 190.794	18.1815u	19.3138u	21.6787
V 292.401	424.282	424.013	422.646
Zn 206.200	2610.58	2611.24	2608.77

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2898b	ppb	0.6484	223.7	164.432
Al 308.215	117566b	ppb	19.2644	0.0	870723
As 188.980	493.552b	ppb	12.9991	2.6	315.871
B 249.678	7.0436b	ppb	0.5194	7.4	-605.031
Ba 389.178	2102.25b	ppb	0.3966	0.0	52479.3
Be 313.042	9.1283b	ppb	0.0110	0.1	18677.5
Ca 370.602	43851b	ppb	12.01	0.0	129143
Cd 226.502	7.9953b	ppb	0.1950	2.4	2037.80
Co 228.615	81.4917b	ppb	0.2940	0.4	1122.34
Cr 267.716	549.169b	ppb	0.5898	0.1	33607.2
Cu 324.754	879.126b	ppb	6.1087	0.7	69477.5
Fe 271.441	355749b	ppb	338.605	0.1	627708
K 766.491	9907.19b	ppb	14.1173	0.1	442650
Mg 279.078	11463.6b	ppb	5.2094	0.0	31919.7
Mn 257.610	48865.6xb	ppb	230.414	0.5	12483573
Mo 202.032	24.6162b	ppb	0.7144	2.9	179.393
Na 330.237	556.812b	ppb	70.2905	12.6	-94.0738
Ni 231.604	272.760b	ppb	1.5087	0.6	953.265
Pb 220.353	1676.88b	ppb	8.2262	0.5	2927.19
Sb 206.834	0.4916b	ppb	2.0136	409.6	15.4165
Se 196.026	7.2371b	ppb	4.7300	65.4	22.4164
Sn 189.925	80.4409b	ppb	0.7928	1.0	60.9818
Sr 216.596	255.302b	ppb	0.8313	0.3	4108.36
Ti 334.941	1175.28b	ppb	0.6425	0.1	398356
Tl 190.794	19.7246b	ppb	1.7844	9.0	-7.7032
V 292.401	423.647b	ppb	0.8776	0.2	12312.5
Zn 206.200	2610.20b	ppb	1.2755	0.0	3158.65

Cont Calib Verif (CCV) **11/5/2014, 6:30:23 AM** **Rack 3, Tube 49**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	496.654	506.485	503.281
Al 308.215	4730.07	4866.20	4810.91
As 188.980	473.953	481.139	470.495

Label	Replicates Concentration		
B 249.678	467.302	483.476	481.348
Ba 389.178	4823.28	4960.55	4903.28
Be 313.042	477.548	491.297	486.552
Ca 370.602	4769	4901	4860
Cd 226.502	478.484	493.288	488.084
Co 228.615	483.530	498.223	492.192
Cr 267.716	4920.57	5055.87	5007.67
Cu 324.754	4897.88	5052.07	5004.66
Fe 271.441	4788.29	4923.55	4875.74
K 766.491	10080.7	10342.6	10245.9
Mg 279.078	4742.28	4880.00	4835.42
Mn 257.610	4885.92	5018.29	4984.11
Mo 202.032	473.881	488.968	482.842
Na 330.237	7169.23	7154.99	7378.97
Ni 231.604	2394.10	2469.10	2439.70
Pb 220.353	488.364	502.057	496.806
Sb 206.834	912.844	944.086	936.561
Se 196.026	4725.34	4865.83	4824.88
Sn 189.925	4809.15	4914.53	4904.09
Sr 216.596	2375.30	2450.44	2424.08
Ti 334.941	477.151	490.029	484.866
Tl 190.794	4858.50	5004.07	4943.99
V 292.401	4756.39	4880.41	4830.78
Zn 206.200	2378.88	2447.68	2428.70

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	502.140	ppb	5.0138	1.0	44220.4	100.42798
Al 308.215	4802.39	ppb	68.4641	1.4	36583.5	96.04782
As 188.980	475.195	ppb	5.4295	1.1	304.886	95.03908
B 249.678	477.375	ppb	8.7886	1.8	8365.44	95.47503
Ba 389.178	4895.70	ppb	68.9471	1.4	121782	97.91404
Be 313.042	485.132	ppb	6.9834	1.4	1003224	97.02645
Ca 370.602	4843	ppb	67.59	1.4	14931	96.86687
Cd 226.502	486.619	ppb	7.5100	1.5	23772.1	97.32375
Co 228.615	491.315	ppb	7.3861	1.5	6426.73	98.26302
Cr 267.716	4994.70	ppb	68.5786	1.4	301133	99.89409
Cu 324.754	4984.87	ppb	78.9775	1.6	391861	99.69737
Fe 271.441	4862.53	ppb	68.5928	1.4	8717.97	97.25060
K 766.491	10223.1	ppb	132.431	1.3	456755	102.23060
Mg 279.078	4819.23	ppb	70.2716	1.5	13789.4	96.38470
Mn 257.610	4962.78	ppb	68.7161	1.4	1267839	99.25552
Mo 202.032	481.897	ppb	7.5881	1.6	3719.32	96.37938
Na 330.237	7234.40	ppb	125.408	1.7	324.950	96.45864
Ni 231.604	2434.30	ppb	37.7918	1.6	8251.13	97.37200
Pb 220.353	495.742	ppb	6.9082	1.4	864.950	99.14846
Sb 206.834	931.163	ppb	16.3051	1.8	1488.13	93.11635
Se 196.026	4805.35	ppb	72.2556	1.5	2296.55	96.10701
Sn 189.925	4875.92	ppb	58.0619	1.2	3971.63	97.51846
Sr 216.596	2416.61	ppb	38.1274	1.6	33977.5	96.66430
Ti 334.941	484.015	ppb	6.4811	1.3	164048	96.80301
Tl 190.794	4935.52	ppb	73.1538	1.5	5825.59	98.71041
V 292.401	4822.53	ppb	62.4175	1.3	138503	96.45053
Zn 206.200	2418.42	ppb	35.5308	1.5	2927.76	96.73682

Cont Calib Blank (CCB) **11/5/2014, 6:34:42 AM** **Rack 3, Tube 50**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1312u	-0.0720u	-0.5225u
Al 308.215	-0.7956u	0.4501	-0.3245u
As 188.980	-0.0516u	-1.9497u	-3.3380u
B 249.678	2.1675	1.7490	0.9954
Ba 389.178	-0.1785u	1.3109	0.5818
Be 313.042	-0.0149u	-0.0170u	-0.0194u
Ca 370.602	-0.4366u	0.2935	0.2001
Cd 226.502	-0.1444u	-0.0376u	-0.1159u
Co 228.615	-0.3364u	0.0858	0.0254
Cr 267.716	0.1338	0.1320	0.0306
Cu 324.754	0.2195	0.0905	0.0303
Fe 271.441	4.8686	9.0853	6.4147
K 766.491	0.1149	0.7075	0.5292
Mg 279.078	0.3775	1.5283	-1.0545u
Mn 257.610	0.7775	0.8073	0.8061
Mo 202.032	0.0737	0.1277	-0.1268u
Na 330.237	-128.109u	33.0136	-116.717u
Ni 231.604	-0.4371u	0.0785	-0.0003u
Pb 220.353	-2.1425u	2.0301	0.8949
Sb 206.834	3.3508	0.7548	2.1540
Se 196.026	-1.9655u	-6.1011u	3.9404
Sn 189.925	-1.2602u	-0.6035u	-2.6580u
Sr 216.596	0.0720	0.2019	-0.2274u
Ti 334.941	0.0945	0.0767	0.0440
Tl 190.794	0.7198	-1.6586u	1.2584
V 292.401	0.4640	0.1701	0.4406
Zn 206.200	0.1964	0.1499	1.3666

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2419	ppb	0.2448	101.2	-22.7246	-0.24191
Al 308.215	-0.2233	ppb	0.6290	281.6	497.263	-0.22335
As 188.980	-1.7798	ppb	1.6498	92.7	-5.5778	-1.77978
B 249.678	1.6373	ppb	0.5940	36.3	153.167	1.63731
Ba 389.178	0.5714	ppb	0.7447	130.3	-57.0402	0.57141
Be 313.042	-0.0171	ppb	0.0022	13.0	-257.302	-0.01713
Ca 370.602	0.0190	ppb	0.3973	2091.8	37.61	0.01899
Cd 226.502	-0.0993	ppb	0.0553	55.7	21.7115	-0.09932
Co 228.615	-0.0751	ppb	0.2283	304.1	0.0111	-0.07508
Cr 267.716	0.0988	ppb	0.0591	59.8	51.1630	0.09880
Cu 324.754	0.1134	ppb	0.0966	85.2	252.911	0.11345
Fe 271.441	6.7895	ppb	2.1332	31.4	28.2615	6.78952
K 766.491	0.4505	ppb	0.3040	67.5	285.801	0.45051
Mg 279.078	0.2838	ppb	1.2939	456.0	20.4499	0.28378
Mn 257.610	0.7970	ppb	0.0169	2.1	299.799	0.79698
Mo 202.032	0.0248	ppb	0.1341	539.5	9.1791	0.02485
Na 330.237	-70.6042	ppb	89.9162	127.4	29.9605	-70.60425
Ni 231.604	-0.1196	ppb	0.2777	232.1	-5.3972	-0.11965
Pb 220.353	0.2608	ppb	2.1574	827.1	7.7729	0.26084
Sb 206.834	2.0865	ppb	1.2993	62.3	-1.0248	2.08652
Se 196.026	-1.3754	ppb	5.0467	366.9	1.6317	-1.37542
Sn 189.925	-1.5072	ppb	1.0493	69.6	-5.8449	-1.50721
Sr 216.596	0.0155	ppb	0.2202	1422.7	8.5771	0.01547

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.0717	ppb	0.0256	35.7	49.2483	0.07173
Tl 190.794	0.1065	ppb	1.5522	1456.8	-7.0892	0.10654
V 292.401	0.3582	ppb	0.1634	45.6	-2.5697	0.35821
Zn 206.200	0.5710	ppb	0.6894	120.7	2.0147	0.57099

680-106803-a-27-a (Samp) **11/5/2014, 6:39:00 AM** **Rack 3, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.0435u	-1.9045u	-1.9529u
Al 308.215	124100	124288	124419
As 188.980	249.720	247.667	244.143
B 249.678	43.0670u	42.5522u	43.5449u
Ba 389.178	1586.66	1585.51	1585.31
Be 313.042	14.9363	14.9205	14.8987
Ca 370.602	110071	110007	110222
Cd 226.502	12.7669	12.7645	12.9302
Co 228.615	112.087	111.135	110.428
Cr 267.716	541.774	541.907	541.874
Cu 324.754	525.985	532.441	531.051
Fe 271.441	510377	513476	511844
K 766.491	9836.46	9837.65	9853.04
Mg 279.078	19664.5	19677.4	19695.4
Mn 257.610	13228.2	13254.3	13274.7
Mo 202.032	214.242	213.609	214.519
Na 330.237	767.394u	700.375u	941.438u
Ni 231.604	182.582	179.111	183.046
Pb 220.353	1142.46	1147.52	1138.28
Sb 206.834	6.3762	4.2271	0.6818
Se 196.026	-2.2850	-5.8955	-5.5425
Sn 189.925	86.1474	94.1232	94.1861
Sr 216.596	294.871	295.772	294.716
Ti 334.941	1369.37	1369.10	1368.49
Tl 190.794	-13.3253u	-4.5323u	-1.5012u
V 292.401	558.310	558.335	559.826
Zn 206.200	2159.27	2155.36	2158.01

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6336	ppb	0.5116	31.3	-175.241
Al 308.215	124269	ppb	160.469	0.1	920619
As 188.980	247.176	ppb	2.8205	1.1	154.457
B 249.678	43.0547	ppb	0.4965	1.2	-358.579
Ba 389.178	1585.83	ppb	0.7282	0.0	39738.7
Be 313.042	14.9185	ppb	0.0189	0.1	30659.5
Ca 370.602	110100	ppb	110.5	0.1	325353
Cd 226.502	12.8205	ppb	0.0950	0.7	2987.12
Co 228.615	111.217	ppb	0.8322	0.7	1521.63
Cr 267.716	541.852	ppb	0.0697	0.0	33054.9
Cu 324.754	529.825	ppb	3.3978	0.6	42110.9
Fe 271.441	511899	ppb	1550.21	0.3	903220
K 766.491	9842.38	ppb	9.2467	0.1	439757
Mg 279.078	19679.1	ppb	15.4777	0.1	56359.2
Mn 257.610	13252.4	ppb	23.3011	0.2	3387243
Mo 202.032	214.123	ppb	0.4665	0.2	1632.44

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	803.069	ppb	124.428	15.5	-108.747
Ni 231.604	181.580	ppb	2.1505	1.2	658.546
Pb 220.353	1142.75	ppb	4.6297	0.4	2011.15
Sb 206.834	3.7617	ppb	2.8756	76.4	22.2484
Se 196.026	-4.5743	ppb	1.9905	43.5	10.4863
Sn 189.925	91.4856	ppb	4.6231	5.1	69.9884
Sr 216.596	295.120	ppb	0.5704	0.2	4915.70
Ti 334.941	1368.99	ppb	0.4544	0.0	464035
Tl 190.794	-6.4530	ppb	6.1416	95.2	-81.2470
V 292.401	558.824	ppb	0.8684	0.2	16236.3
Zn 206.200	2157.54	ppb	1.9966	0.1	2599.55

680-106803-a-28-a (Samp) **11/5/2014, 6:43:18 AM** **Rack 3, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5739u	0.2495	-0.3929u
Al 308.215	103267	102510	102908
As 188.980	849.172	842.935	843.098
B 249.678	39.5378u	38.7949u	39.5629u
Ba 389.178	1888.80	1880.53	1888.30
Be 313.042	10.5434	10.5080	10.5575
Ca 370.602	95455	95169	95276
Cd 226.502	15.5161	15.5093	15.6097
Co 228.615	101.907	100.976	102.428
Cr 267.716	369.163	367.591	369.345
Cu 324.754	1534.26	1527.38	1524.42
Fe 271.441	406841	403934	405479
K 766.491	9696.07	9664.35	9709.04
Mg 279.078	16092.0	16005.1	16063.5
Mn 257.610	14586.1	14484.8	14540.7
Mo 202.032	26.3358	27.0573	26.4407
Na 330.237	940.115u	911.206u	768.217u
Ni 231.604	256.016	256.346	258.234
Pb 220.353	1849.96	1845.70	1849.48
Sb 206.834	6.6080	3.8009	2.2980
Se 196.026	-2.4590	-3.1207	21.2942
Sn 189.925	172.454	177.908	176.950
Sr 216.596	376.428	374.521	375.848
Ti 334.941	2413.88	2402.81	2406.44
Tl 190.794	-6.0214u	-2.9908u	0.7360u
V 292.401	344.613	343.034	344.479
Zn 206.200	3111.16	3094.82	3109.91

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2391	ppb	0.4327	181.0	-29.5766
Al 308.215	102895	ppb	378.747	0.4	762306
As 188.980	845.068	ppb	3.5548	0.4	544.291
B 249.678	39.2985	ppb	0.4364	1.1	-167.592
Ba 389.178	1885.87	ppb	4.6377	0.2	47132.8
Be 313.042	10.5363	ppb	0.0255	0.2	21610.9
Ca 370.602	95300	ppb	144.7	0.2	282754
Cd 226.502	15.5450	ppb	0.0561	0.4	2632.93
Co 228.615	101.770	ppb	0.7354	0.7	1420.33

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	368.700	ppb	0.9641	0.3	22570.8
Cu 324.754	1528.69	ppb	5.0505	0.3	120539
Fe 271.441	405418	ppb	1454.08	0.4	715344
K 766.491	9689.82	ppb	22.9925	0.2	432944
Mg 279.078	16053.6	ppb	44.3001	0.3	45897.4
Mn 257.610	14537.2	ppb	50.7454	0.3	3715024
Mo 202.032	26.6112	ppb	0.3898	1.5	192.229
Na 330.237	873.179	ppb	92.0424	10.5	-105.802
Ni 231.604	256.865	ppb	1.1967	0.5	903.936
Pb 220.353	1848.38	ppb	2.3344	0.1	3217.56
Sb 206.834	4.2356	ppb	2.1876	51.6	20.6886
Se 196.026	5.2382	ppb	13.9088	265.5	13.9699
Sn 189.925	175.771	ppb	2.9119	1.7	138.722
Sr 216.596	375.599	ppb	0.9774	0.3	5894.96
Ti 334.941	2407.71	ppb	5.6451	0.2	815992
Tl 190.794	-2.7587	ppb	3.3847	122.7	-60.4020
V 292.401	344.042	ppb	0.8753	0.3	10069.5
Zn 206.200	3105.30	ppb	9.0924	0.3	3759.44

680-106803-a-29-a (Samp) **11/5/2014, 6:47:36 AM** **Rack 3, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9454u	-0.9803u	-0.3805u
Al 308.215	109612	109680	109325
As 188.980	345.581	341.134	347.732
B 249.678	35.9428u	36.4613u	36.6623u
Ba 389.178	1690.90	1691.42	1687.55
Be 313.042	11.2432	11.2444	11.1906
Ca 370.602	110191	109902	109047
Cd 226.502	8.7868	9.1793	9.0677
Co 228.615	108.906	108.951	108.312
Cr 267.716	375.892	375.785	374.677
Cu 324.754	551.887	546.154	550.553
Fe 271.441	513838	513535	510695
K 766.491	10046.8	10015.8	10013.1
Mg 279.078	16680.0	16663.6	16607.7
Mn 257.610	13330.8	13276.5	13294.0
Mo 202.032	22.9330	21.7227	22.8167
Na 330.237	1372.19u	1363.22u	1677.41u
Ni 231.604	134.923	134.583	136.150
Pb 220.353	1537.28	1533.21	1524.54
Sb 206.834	0.9295	0.6145	1.9952
Se 196.026	-7.1499	-0.9780	-8.0082
Sn 189.925	86.1474	89.3309	80.8400
Sr 216.596	397.191	396.051	395.016
Ti 334.941	2055.99	2054.85	2045.31
Tl 190.794	-5.4992u	-4.4464u	-5.1668u
V 292.401	459.184	457.631	454.858
Zn 206.200	2106.07	2111.80	2100.55

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7687	ppb	0.3367	43.8	-102.643
Al 308.215	109539	ppb	188.435	0.2	811655

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	344.816	ppb	3.3645	1.0	217.936
B 249.678	36.3555	ppb	0.3712	1.0	-474.768
Ba 389.178	1689.96	ppb	2.1001	0.1	42324.2
Be 313.042	11.2261	ppb	0.0307	0.3	23047.8
Ca 370.602	109713	ppb	594.7	0.5	324505
Cd 226.502	9.0113	ppb	0.2022	2.2	2802.46
Co 228.615	108.723	ppb	0.3566	0.3	1511.08
Cr 267.716	375.451	ppb	0.6726	0.2	23026.1
Cu 324.754	549.531	ppb	3.0000	0.5	43652.6
Fe 271.441	512689	ppb	1733.81	0.3	904613
K 766.491	10025.2	ppb	18.7175	0.2	447922
Mg 279.078	16650.4	ppb	37.9036	0.2	47640.9
Mn 257.610	13300.4	ppb	27.7084	0.2	3399481
Mo 202.032	22.4908	ppb	0.6678	3.0	154.615
Na 330.237	1470.94	ppb	178.861	12.2	-76.0913
Ni 231.604	135.218	ppb	0.8243	0.6	501.311
Pb 220.353	1531.68	ppb	6.5030	0.4	2680.30
Sb 206.834	1.1798	ppb	0.7236	61.3	19.8733
Se 196.026	-5.3787	ppb	3.8352	71.3	10.1175
Sn 189.925	85.4394	ppb	4.2895	5.0	65.0581
Sr 216.596	396.086	ppb	1.0883	0.3	6342.03
Ti 334.941	2052.05	ppb	5.8668	0.3	695490
Tl 190.794	-5.0375	ppb	0.5382	10.7	-79.0568
V 292.401	457.225	ppb	2.1915	0.5	13364.8
Zn 206.200	2106.14	ppb	5.6227	0.3	2537.55

680-106803-a-31-a (Samp) **11/5/2014, 6:51:54 AM** **Rack 3, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.4801u	-1.4157u	-0.8811u
Al 308.215	131960	131981	132234
As 188.980	257.512	257.275	257.486
B 249.678	13.2285u	12.8288u	12.7361u
Ba 389.178	1366.62	1366.24	1369.73
Be 313.042	13.9393	13.9346	13.9723
Ca 370.602	316800	317391	318721
Cd 226.502	9.1015	9.7759	9.4524
Co 228.615	99.9101	98.0828	100.113
Cr 267.716	404.544	404.838	405.164
Cu 324.754	519.182	514.961	518.833
Fe 271.441	451484	453059	453377
K 766.491	9943.67	9960.19	9968.35
Mg 279.078	79501.3	79623.6	79712.3
Mn 257.610	13019.1	12973.1	13024.5
Mo 202.032	25.6958	24.7277	26.3385
Na 330.237	546.849u	329.310u	473.104u
Ni 231.604	134.874	132.949	135.133
Pb 220.353	918.855	917.857	921.967
Sb 206.834	-1.9072	5.0590	-0.3625
Se 196.026	-8.0182	-4.8993	-0.0351
Sn 189.925	66.9604	66.6953	69.1543
Sr 216.596	509.198	510.425	511.251
Ti 334.941	1214.35	1217.49	1217.35

Label	Replicates Concentration		
Tl 190.794	-8.4061u	-7.6021u	-9.6764u
V 292.401	550.592	551.314	553.661
Zn 206.200	1716.14	1718.31	1724.24

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2590	ppb	0.3288	26.1	-142.177
Al 308.215	132058	ppb	152.905	0.1	978106
As 188.980	257.424	ppb	0.1296	0.1	161.644
B 249.678	12.9312	ppb	0.2617	2.0	-735.411
Ba 389.178	1367.53	ppb	1.9117	0.1	34362.1
Be 313.042	13.9487	ppb	0.0205	0.1	28764.7
Ca 370.602	317637	ppb	983.9	0.3	949614
Cd 226.502	9.4433	ppb	0.3373	3.6	2551.12
Co 228.615	99.3685	ppb	1.1180	1.1	1363.99
Cr 267.716	404.848	ppb	0.3102	0.1	24762.0
Cu 324.754	517.659	ppb	2.3428	0.5	41119.3
Fe 271.441	452640	ppb	1013.44	0.2	798663
K 766.491	9957.41	ppb	12.5754	0.1	444893
Mg 279.078	79612.4	ppb	105.918	0.1	228981
Mn 257.610	13005.6	ppb	28.2754	0.2	3324526
Mo 202.032	25.5873	ppb	0.8109	3.2	181.573
Na 330.237	449.754	ppb	110.633	24.6	-100.111
Ni 231.604	134.319	ppb	1.1931	0.9	492.691
Pb 220.353	919.560	ppb	2.1437	0.2	1622.89
Sb 206.834	0.9297	ppb	3.6585	393.5	17.6724
Se 196.026	-4.3175	ppb	4.0232	93.2	9.7089
Sn 189.925	67.6033	ppb	1.3497	2.0	50.5129
Sr 216.596	510.291	ppb	1.0334	0.2	7957.18
Ti 334.941	1216.40	ppb	1.7753	0.1	412444
Tl 190.794	-8.5615	ppb	1.0458	12.2	-74.5603
V 292.401	551.856	ppb	1.6042	0.3	16050.0
Zn 206.200	1719.57	ppb	4.1932	0.2	2069.94

680-106803-a-32-a (Samp) **11/5/2014, 6:56:12 AM** **Rack 3, Tube 55**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.9329u	-2.0955u	-1.7499u
Al 308.215	112058	114487	112163
As 188.980	150.659	146.631	141.728
B 249.678	9.5502u	9.6471u	10.7231u
Ba 389.178	1043.91	1069.05	1047.40
Be 313.042	6.0196	6.1493	6.0280
Ca 370.602	76360	78017	75980
Cd 226.502	3.0038	3.9943	3.5583
Co 228.615	95.3690	96.1132	94.6875
Cr 267.716	412.193	421.321	412.421
Cu 324.754	107.662	110.524	108.141
Fe 271.441	362625	370719	362937
K 766.491	6216.87	6378.52	6238.59
Mg 279.078	38075.4	38888.0	38098.5
Mn 257.610	11595.7	11798.8	11580.8
Mo 202.032	14.8963	15.5852	14.9092
Na 330.237	278.428u	218.831u	246.929u

Label	Replicates Concentration		
Ni 231.604	64.8254	67.5082	65.6672
Pb 220.353	384.626	388.759	382.031
Sb 206.834	-4.1207	-1.0440	-2.3090
Se 196.026	-8.1585	-7.8762	-6.0943
Sn 189.925	52.0053	49.7603	49.9646
Sr 216.596	163.228	167.397	163.630
Ti 334.941	1186.60	1214.52	1188.94
Tl 190.794	-6.3809u	-4.0777u	-4.8689u
V 292.401	482.368	493.057	481.022
Zn 206.200	659.648	675.401	657.375

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.9261	ppb	0.1729	9.0	-178.988
Al 308.215	112902	ppb	1372.93	1.2	836259
As 188.980	146.339	ppb	4.4729	3.1	89.6782
B 249.678	9.9735	ppb	0.6510	6.5	-577.373
Ba 389.178	1053.45	ppb	13.6150	1.3	26428.4
Be 313.042	6.0656	ppb	0.0726	1.2	12372.2
Ca 370.602	76785	ppb	1083	1.4	226993
Cd 226.502	3.5188	ppb	0.4965	14.1	1863.50
Co 228.615	95.3899	ppb	0.7131	0.7	1305.12
Cr 267.716	415.312	ppb	5.2054	1.3	25339.6
Cu 324.754	108.776	ppb	1.5329	1.4	8952.78
Fe 271.441	365427	ppb	4585.65	1.3	644785
K 766.491	6277.99	ppb	87.7325	1.4	280596
Mg 279.078	38354.0	ppb	462.601	1.2	110186
Mn 257.610	11658.4	ppb	121.769	1.0	2979734
Mo 202.032	15.1302	ppb	0.3941	2.6	105.650
Na 330.237	248.063	ppb	29.8149	12.0	-61.9104
Ni 231.604	66.0003	ppb	1.3721	2.1	252.799
Pb 220.353	385.139	ppb	3.3932	0.9	697.089
Sb 206.834	-2.4912	ppb	1.5464	62.1	9.6306
Se 196.026	-7.3763	ppb	1.1192	15.2	6.6966
Sn 189.925	50.5767	ppb	1.2414	2.5	36.6280
Sr 216.596	164.752	ppb	2.2997	1.4	2866.83
Ti 334.941	1196.69	ppb	15.4861	1.3	405667
Tl 190.794	-5.1092	ppb	1.1703	22.9	-58.6571
V 292.401	485.482	ppb	6.5941	1.4	14105.2
Zn 206.200	664.141	ppb	9.8170	1.5	789.554

680-106803-a-33-a (Samp) **11/5/2014, 7:00:30 AM** **Rack 3, Tube 56**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-2.1355u	-1.5126u	-1.5830u
Al 308.215	134086	133831	133713
As 188.980	245.911	240.628	247.809
B 249.678	16.9165u	16.5718u	17.2126u
Ba 389.178	1164.31	1159.80	1156.91
Be 313.042	10.4471	10.3956	10.3795
Ca 370.602	23651	23657	23562
Cd 226.502	4.6494	4.1800	3.7745
Co 228.615	109.615	108.460	108.114
Cr 267.716	438.147	437.059	436.253

Label	Replicates Concentration		
Cu 324.754	222.723	222.918	221.932
Fe 271.441	400651	399898	397768
K 766.491	9343.33	9332.40	9302.48
Mg 279.078	6953.53	6927.96	6921.31
Mn 257.610	7989.02	7962.52	7944.29
Mo 202.032	20.7333	19.7198	20.7684
Na 330.237	404.496u	414.640u	321.456u
Ni 231.604	141.337	140.105	138.431
Pb 220.353	704.952	692.105	693.887
Sb 206.834	-1.5385	3.8774	-2.6479
Se 196.026	-5.0081	2.1702	-6.6108
Sn 189.925	46.8270	45.3883	48.9394
Sr 216.596	303.193	301.772	300.913
Ti 334.941	1057.87	1054.66	1052.85
Tl 190.794	-4.7619u	-1.5962u	0.2212u
V 292.401	527.918	526.862	525.661
Zn 206.200	1136.61	1135.74	1122.01

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.7437	ppb	0.3411	19.6	-192.876
Al 308.215	133877	ppb	190.787	0.1	991451
As 188.980	244.783	ppb	3.7206	1.5	153.773
B 249.678	16.9003	ppb	0.3207	1.9	-539.864
Ba 389.178	1160.34	ppb	3.7272	0.3	29060.5
Be 313.042	10.4074	ppb	0.0353	0.3	21335.3
Ca 370.602	23623	ppb	53.22	0.2	66659
Cd 226.502	4.2013	ppb	0.4378	10.4	2052.47
Co 228.615	108.729	ppb	0.7859	0.7	1478.57
Cr 267.716	437.153	ppb	0.9503	0.2	26654.0
Cu 324.754	222.524	ppb	0.5222	0.2	17905.7
Fe 271.441	399439	ppb	1495.01	0.4	704797
K 766.491	9326.07	ppb	21.1444	0.2	416702
Mg 279.078	6934.27	ppb	17.0076	0.2	19763.6
Mn 257.610	7965.28	ppb	22.4897	0.3	2036199
Mo 202.032	20.4072	ppb	0.5956	2.9	144.475
Na 330.237	380.198	ppb	51.1236	13.4	-75.3812
Ni 231.604	139.958	ppb	1.4587	1.0	506.835
Pb 220.353	696.981	ppb	6.9599	1.0	1235.04
Sb 206.834	-0.1030	ppb	3.4914	3389.8	14.7011
Se 196.026	-3.1495	ppb	4.6762	148.5	8.3149
Sn 189.925	47.0516	ppb	1.7862	3.8	33.7533
Sr 216.596	301.959	ppb	1.1514	0.4	4821.96
Ti 334.941	1055.13	ppb	2.5433	0.2	357640
Tl 190.794	-2.0456	ppb	2.5218	123.3	-61.9463
V 292.401	526.814	ppb	1.1290	0.2	15303.8
Zn 206.200	1131.45	ppb	8.1903	0.7	1356.60

680-106803-a-34-a (Samp) **11/5/2014, 7:04:48 AM** **Rack 3, Tube 57**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.8952u	-2.1019u	-2.6689u
Al 308.215	127027	127166	126845
As 188.980	175.165	185.113	185.017

Label	Replicates Concentration		
B 249.678	6.9696u	5.6980u	6.2584u
Ba 389.178	469.953	471.113	470.202
Be 313.042	4.8432	4.8572	4.8502
Ca 370.602	20799	20821	20812
Cd 226.502	0.9938	0.7451	0.9156
Co 228.615	51.8879	52.3685	51.7414
Cr 267.716	207.677	207.942	206.981
Cu 324.754	99.4079	100.067	100.136
Fe 271.441	307497	308171	307514
K 766.491	8199.83	8221.40	8220.91
Mg 279.078	7394.28	7404.25	7390.61
Mn 257.610	5479.42	5472.97	5472.11
Mo 202.032	11.6045	12.2882	11.8669
Na 330.237	265.931u	274.441u	277.329u
Ni 231.604	79.8801	79.6279	78.8941
Pb 220.353	209.217	211.013	210.519
Sb 206.834	-2.4318	-8.3585	-8.3998
Se 196.026	-16.7883u	8.9140	6.6136
Sn 189.925	16.5732	11.2051	14.3168
Sr 216.596	126.853	125.751	125.671
Ti 334.941	564.789	566.466	565.709
Tl 190.794	-0.0117u	0.8957u	0.1953u
V 292.401	330.845	332.187	330.994
Zn 206.200	523.803	522.558	522.359

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.2220	ppb	0.4005	18.0	-226.186
Al 308.215	127012	ppb	160.778	0.1	940492
As 188.980	181.765	ppb	5.7158	3.1	113.259
B 249.678	6.3087	ppb	0.6373	10.1	-503.053
Ba 389.178	470.423	ppb	0.6105	0.1	11836.0
Be 313.042	4.8502	ppb	0.0070	0.1	9835.39
Ca 370.602	20811	ppb	11.47	0.1	59076
Cd 226.502	0.8848	ppb	0.1272	14.4	1472.50
Co 228.615	51.9993	ppb	0.3280	0.6	718.075
Cr 267.716	207.534	ppb	0.4965	0.2	12749.4
Cu 324.754	99.8704	ppb	0.4021	0.4	8228.76
Fe 271.441	307727	ppb	384.183	0.1	542973
K 766.491	8214.05	ppb	12.3157	0.1	367047
Mg 279.078	7396.38	ppb	7.0577	0.1	21151.8
Mn 257.610	5474.83	ppb	3.9932	0.1	1399726
Mo 202.032	11.9199	ppb	0.3449	2.9	84.1405
Na 330.237	272.567	ppb	5.9256	2.2	-41.9412
Ni 231.604	79.4674	ppb	0.5122	0.6	293.233
Pb 220.353	210.250	ppb	0.9274	0.4	390.597
Sb 206.834	-6.3967	ppb	3.4338	53.7	-0.9458
Se 196.026	-0.4202	ppb	14.2218	3384.3	7.7300
Sn 189.925	14.0317	ppb	2.6954	19.2	6.8263
Sr 216.596	126.092	ppb	0.6603	0.5	2218.36
Ti 334.941	565.654	ppb	0.8401	0.1	191767
Tl 190.794	0.3598	ppb	0.4755	132.2	-47.6805
V 292.401	331.342	ppb	0.7357	0.2	9644.53
Zn 206.200	522.907	ppb	0.7829	0.1	621.307

680-106803-a-35-a (Samp) **11/5/2014, 7:09:06 AM** **Rack 3, Tube 58**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-2.2204u	-1.8988u	-1.7098u
Al 308.215	127135	127391	127639
As 188.980	279.065	288.001	295.645
B 249.678	30.7075u	29.5949u	30.4440u
Ba 389.178	2550.95	2554.33	2556.82
Be 313.042	16.8333	16.8955	16.8849
Ca 370.602	53371	53826	53893
Cd 226.502	8.7801	8.5638	9.1364
Co 228.615	132.459	133.842	133.064
Cr 267.716	480.382	481.893	481.788
Cu 324.754	284.462	285.934	288.901
Fe 271.441	604472	602328	603291
K 766.491	8510.40	8510.90	8542.10
Mg 279.078	12572.6	12606.6	12626.2
Mn 257.610	14727.7	14729.5	14716.4
Mo 202.032	24.0884	23.8698	23.2840
Na 330.237	547.126u	595.880u	782.235u
Ni 231.604	119.198	117.597	119.356
Pb 220.353	1342.65	1350.18	1339.94
Sb 206.834	-3.8631	-4.8408	-4.9891
Se 196.026	-1.2875	3.0651	-10.8793
Sn 189.925	99.7656	101.340	101.591
Sr 216.596	580.502	585.482	584.055
Ti 334.941	1456.74	1459.02	1461.17
Tl 190.794	-7.3287u	-2.6574u	-7.6746u
V 292.401	706.803	711.388	712.331
Zn 206.200	1769.30	1779.79	1774.94

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.9430	ppb	0.2582	13.3	-220.572
Al 308.215	127389	ppb	252.005	0.2	943867
As 188.980	287.570	ppb	8.2981	2.9	180.260
B 249.678	30.2488	ppb	0.5814	1.9	-798.118
Ba 389.178	2554.04	ppb	2.9479	0.1	63876.7
Be 313.042	16.8712	ppb	0.0333	0.2	34713.9
Ca 370.602	53697	ppb	284.1	0.5	154803
Cd 226.502	8.8268	ppb	0.2891	3.3	3208.25
Co 228.615	133.122	ppb	0.6935	0.5	1822.83
Cr 267.716	481.355	ppb	0.8439	0.2	29462.7
Cu 324.754	286.432	ppb	2.2614	0.8	23018.7
Fe 271.441	603364	ppb	1073.51	0.2	1064601
K 766.491	8521.14	ppb	18.1603	0.2	380759
Mg 279.078	12601.8	ppb	27.1257	0.2	35941.6
Mn 257.610	14724.6	ppb	7.0869	0.0	3763547
Mo 202.032	23.7474	ppb	0.4159	1.8	159.153
Na 330.237	641.747	ppb	124.084	19.3	-129.017
Ni 231.604	118.717	ppb	0.9728	0.8	453.790
Pb 220.353	1344.26	ppb	5.3043	0.4	2364.94
Sb 206.834	-4.5643	ppb	0.6118	13.4	15.5046
Se 196.026	-3.0339	ppb	7.1343	235.2	12.8588
Sn 189.925	100.899	ppb	0.9894	1.0	77.6645
Sr 216.596	583.346	ppb	2.5647	0.4	9082.45

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	1458.98	ppb	2.2151	0.2	494528
Tl 190.794	-5.8869	ppb	2.8021	47.6	-91.9512
V 292.401	710.174	ppb	2.9573	0.4	20667.5
Zn 206.200	1774.68	ppb	5.2489	0.3	2128.97

680-106803-a-36-a (Samp) **11/5/2014, 7:13:24 AM** **Rack 3, Tube 59**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.2219u	-1.0511u	-1.6325u
Al 308.215	94294.8	94371.3	94302.3
As 188.980	185.989	194.935	187.499
B 249.678	11.6549u	10.9352u	10.5021u
Ba 389.178	2151.35	2159.58	2154.17
Be 313.042	8.6564	8.6866	8.6858
Ca 370.602	376789	377883	380691
Cd 226.502	16.1383	16.0607	15.9744
Co 228.615	153.105	156.241	151.015
Cr 267.716	539.598	540.417	539.669
Cu 324.754	459.517	464.769	463.812
Fe 271.441	392913	394025	393198
K 766.491	6610.93	6626.41	6624.50
Mg 279.078	77401.2	77478.2	77332.1
Mn 257.610	19041.0	19022.6	18997.5
Mo 202.032	85.8951	86.2154	86.5852
Na 330.237	572.420u	625.250u	538.592u
Ni 231.604	251.308	247.679	252.260
Pb 220.353	1331.76	1331.21	1326.62
Sb 206.834	-4.5519	4.6877	3.0270
Se 196.026	-7.4166	-1.3929	-6.8416
Sn 189.925	75.5535	75.0456	71.5533
Sr 216.596	534.124	535.974	534.918
Ti 334.941	918.154	920.617	919.335
Tl 190.794	-3.5547u	2.1116u	-1.7628u
V 292.401	412.489	413.406	413.231
Zn 206.200	2518.53	2524.65	2517.43

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3018	ppb	0.2988	23.0	-104.590
Al 308.215	94322.8	ppb	42.1954	0.0	698893
As 188.980	189.474	ppb	4.7890	2.5	117.375
B 249.678	11.0307	ppb	0.5823	5.3	-626.599
Ba 389.178	2155.03	ppb	4.1794	0.2	53919.3
Be 313.042	8.6763	ppb	0.0172	0.2	17863.2
Ca 370.602	378454	ppb	2012	0.5	1133122
Cd 226.502	16.0578	ppb	0.0820	0.5	2603.94
Co 228.615	153.454	ppb	2.6307	1.7	2057.38
Cr 267.716	539.895	ppb	0.4537	0.1	32905.2
Cu 324.754	462.700	ppb	2.7973	0.6	36778.4
Fe 271.441	393379	ppb	577.605	0.1	694110
K 766.491	6620.61	ppb	8.4384	0.1	295895
Mg 279.078	77403.8	ppb	73.0639	0.1	222503
Mn 257.610	19020.4	ppb	21.8011	0.1	4860712
Mo 202.032	86.2319	ppb	0.3454	0.4	652.602

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	578.754	ppb	43.6746	7.5	-99.3993
Ni 231.604	250.415	ppb	2.4175	1.0	880.796
Pb 220.353	1329.86	ppb	2.8231	0.2	2326.59
Sb 206.834	1.0543	ppb	4.9256	467.2	16.2961
Se 196.026	-5.2170	ppb	3.3243	63.7	9.8813
Sn 189.925	74.0508	ppb	2.1777	2.9	55.7707
Sr 216.596	535.005	ppb	0.9282	0.2	8246.11
Ti 334.941	919.369	ppb	1.2315	0.1	311779
Tl 190.794	-1.0686	ppb	2.8962	271.0	-54.1283
V 292.401	413.042	ppb	0.4867	0.1	12008.7
Zn 206.200	2520.21	ppb	3.8920	0.2	3047.19

680-106803-a-37-a (Samp) **11/5/2014, 7:17:43 AM** **Rack 3, Tube 60**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-2.1292u	-1.9471u	-2.4094u
Al 308.215	105617	105647	105400
As 188.980	239.983	238.978	252.021
B 249.678	3.8905u	3.6924u	2.9824u
Ba 389.178	668.807	667.160	665.638
Be 313.042	9.1446	9.1360	9.1239
Ca 370.602	42728	42633	42675
Cd 226.502	3.5677	3.5066	3.3207
Co 228.615	94.1953	94.8555	94.3981
Cr 267.716	323.628	323.703	323.085
Cu 324.754	220.867	220.977	219.844
Fe 271.441	332304	331706	331476
K 766.491	5729.63	5716.97	5726.05
Mg 279.078	7849.82	7852.63	7839.09
Mn 257.610	5626.09	5627.70	5622.73
Mo 202.032	23.0316	22.7997	22.5763
Na 330.237	49.9841u	141.689u	252.533u
Ni 231.604	127.773	130.166	126.329
Pb 220.353	544.367	546.035	549.196
Sb 206.834	-3.7146	-2.5182	-1.7980
Se 196.026	3.2037	5.4535	-5.0178
Sn 189.925	28.9474	25.0101	27.3786
Sr 216.596	130.919	129.744	130.860
Ti 334.941	950.311	950.120	947.561
Tl 190.794	-4.8528u	-3.6353u	-4.0165u
V 292.401	409.230	410.079	410.383
Zn 206.200	890.829	884.378	877.971

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.1619	ppb	0.2329	10.8	-224.593
Al 308.215	105555	ppb	134.838	0.1	781846
As 188.980	243.661	ppb	7.2575	3.0	153.185
B 249.678	3.5218	ppb	0.4775	13.6	-609.115
Ba 389.178	667.202	ppb	1.5847	0.2	16748.6
Be 313.042	9.1348	ppb	0.0104	0.1	18704.0
Ca 370.602	42678	ppb	47.47	0.1	124658
Cd 226.502	3.4650	ppb	0.1287	3.7	1708.79
Co 228.615	94.4830	ppb	0.3382	0.4	1284.30

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	323.472	ppb	0.3372	0.1	19752.5
Cu 324.754	220.563	ppb	0.6245	0.3	17722.2
Fe 271.441	331829	ppb	427.658	0.1	585504
K 766.491	5724.21	ppb	6.5266	0.1	255869
Mg 279.078	7847.18	ppb	7.1449	0.1	22455.5
Mn 257.610	5625.50	ppb	2.5360	0.0	1438303
Mo 202.032	22.8025	ppb	0.2276	1.0	166.684
Na 330.237	148.069	ppb	101.425	68.5	-63.9491
Ni 231.604	128.089	ppb	1.9379	1.5	460.294
Pb 220.353	546.532	ppb	2.4528	0.4	971.147
Sb 206.834	-2.6769	ppb	0.9681	36.2	6.8892
Se 196.026	1.2131	ppb	5.5122	454.4	8.8870
Sn 189.925	27.1120	ppb	1.9822	7.3	17.4930
Sr 216.596	130.508	ppb	0.6620	0.5	2321.75
Ti 334.941	949.331	ppb	1.5354	0.2	321781
Tl 190.794	-4.1682	ppb	0.6228	14.9	-56.2097
V 292.401	409.898	ppb	0.5978	0.1	11914.7
Zn 206.200	884.393	ppb	6.4295	0.7	1059.72

Cont Calib Verif (CCV) **11/5/2014, 7:22:01 AM** **Rack 4, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	506.981	503.514	512.673
Al 308.215	4804.93	4817.67	4771.70
As 188.980	482.825	477.300	480.130
B 249.678	475.604	479.128	476.564
Ba 389.178	4880.88	4892.71	4851.73
Be 313.042	483.728	483.640	480.890
Ca 370.602	4872	4867	4821
Cd 226.502	485.645	485.690	481.137
Co 228.615	489.288	491.222	490.014
Cr 267.716	4992.29	4997.99	4949.77
Cu 324.754	5022.81	4988.75	5177.40
Fe 271.441	4857.82	4866.02	4826.77
K 766.491	10261.0	10285.9	10198.0
Mg 279.078	4815.56	4819.12	4779.54
Mn 257.610	4959.69	4961.85	4892.88
Mo 202.032	482.358	484.111	479.525
Na 330.237	7018.53	7379.06	7088.65
Ni 231.604	2447.95	2426.01	2453.77
Pb 220.353	495.622	489.342	491.559
Sb 206.834	934.340	933.605	927.664
Se 196.026	4787.67	4801.09	4763.13
Sn 189.925	4859.44	4877.63	4761.86
Sr 216.596	2407.08	2408.75	2391.74
Ti 334.941	483.757	485.173	480.209
Tl 190.794	4941.21	4947.17	4915.41
V 292.401	4829.75	4840.94	4796.34
Zn 206.200	2426.42	2402.42	2394.25

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	507.723	ppb	4.6243	0.9	44713.5	101.54456
Al 308.215	4798.10	ppb	23.7335	0.5	36550.1	95.96194

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	480.085	ppb	2.7628	0.6	308.071	96.01698
B 249.678	477.099	ppb	1.8220	0.4	8360.66	95.41977
Ba 389.178	4875.11	ppb	21.0902	0.4	121270	97.50219
Be 313.042	482.753	ppb	1.6134	0.3	998303	96.55054
Ca 370.602	4854	ppb	28.05	0.6	14960	97.07258
Cd 226.502	484.157	ppb	2.6160	0.5	23652.0	96.83144
Co 228.615	490.175	ppb	0.9772	0.2	6411.79	98.03492
Cr 267.716	4980.01	ppb	26.3469	0.5	300247	99.60027
Cu 324.754	5062.99	ppb	100.539	2.0	397999	101.25979
Fe 271.441	4850.20	ppb	20.7038	0.4	8695.80	97.00407
K 766.491	10248.3	ppb	45.3306	0.4	457882	102.48308
Mg 279.078	4804.74	ppb	21.9001	0.5	13748.2	96.09480
Mn 257.610	4938.14	ppb	39.2101	0.8	1261545	98.76276
Mo 202.032	481.998	ppb	2.3143	0.5	3720.11	96.39956
Na 330.237	7162.08	ppb	191.153	2.7	321.720	95.49438
Ni 231.604	2442.58	ppb	14.6401	0.6	8279.21	97.70313
Pb 220.353	492.174	ppb	3.1849	0.6	858.784	98.43487
Sb 206.834	931.870	ppb	3.6607	0.4	1488.90	93.18699
Se 196.026	4783.96	ppb	19.2496	0.4	2286.34	95.67922
Sn 189.925	4832.98	ppb	62.2559	1.3	3936.61	96.65954
Sr 216.596	2402.52	ppb	9.3728	0.4	33779.0	96.10085
Ti 334.941	483.047	ppb	2.5571	0.5	163719	96.60932
Tl 190.794	4934.60	ppb	16.8807	0.3	5824.47	98.69199
V 292.401	4822.35	ppb	23.2070	0.5	138500	96.44691
Zn 206.200	2407.70	ppb	16.7224	0.7	2914.80	96.30786

Cont Calib Blank (CCB) **11/5/2014, 7:26:20 AM** **Rack 4, Tube 2**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0127	0.2811	0.0801
Al 308.215	0.7214	1.0805	-0.1611u
As 188.980	0.9588	-2.9154u	-1.6712u
B 249.678	2.1155	1.2638	0.5204
Ba 389.178	0.4900	0.7850	0.5735
Be 313.042	-0.0114u	-0.0063u	-0.0025u
Ca 370.602	3.285	5.790	7.502
Cd 226.502	-0.1107u	-0.0613u	-0.0303u
Co 228.615	-0.2719u	-0.2148u	0.1082
Cr 267.716	0.0539	0.2396	0.2545
Cu 324.754	-0.1563u	0.3122	0.1263
Fe 271.441	8.8121	0.4687	3.3400
K 766.491	0.2400	0.9047	0.5674
Mg 279.078	0.7513	1.6840	2.6922
Mn 257.610	0.2776	0.4639	0.4853
Mo 202.032	0.1268	-0.0650u	-0.2852u
Na 330.237	-67.5893u	121.204	-90.6753u
Ni 231.604	0.7203	0.8934	0.4567
Pb 220.353	0.5819	-1.5927u	-0.2982u
Sb 206.834	4.3826	3.1902	1.1905
Se 196.026	6.0415	-0.4079u	4.1207
Sn 189.925	1.0713	-1.6749u	-2.3788u
Sr 216.596	-0.0596u	0.0319	-0.4598u
Ti 334.941	0.0609	0.0382	0.0836

Label	Replicates Concentration		
Tl 190.794	2.4412	0.5532	-1.7599u
V 292.401	0.2165	0.5941	0.4373
Zn 206.200	0.4683	0.5126	-0.1815u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1246	ppb	0.1397	112.1	9.5872	0.12463
Al 308.215	0.5469	ppb	0.6389	116.8	502.970	0.54695
As 188.980	-1.2093	ppb	1.9780	163.6	-5.2063	-1.20928
B 249.678	1.2999	ppb	0.7982	61.4	147.366	1.29989
Ba 389.178	0.6162	ppb	0.1521	24.7	-55.9278	0.61615
Be 313.042	-0.0067	ppb	0.0045	66.5	-235.804	-0.00674
Ca 370.602	5.526	ppb	2.121	38.4	54.13	5.52584
Cd 226.502	-0.0674	ppb	0.0405	60.1	23.2751	-0.06743
Co 228.615	-0.1262	ppb	0.2050	162.4	-0.6531	-0.12620
Cr 267.716	0.1827	ppb	0.1117	61.2	56.2163	0.18266
Cu 324.754	0.0941	ppb	0.2359	250.8	251.381	0.09405
Fe 271.441	4.2069	ppb	4.2387	100.8	23.6998	4.20694
K 766.491	0.5707	ppb	0.3324	58.2	291.168	0.57070
Mg 279.078	1.7092	ppb	0.9707	56.8	24.5634	1.70918
Mn 257.610	0.4089	ppb	0.1143	27.9	200.668	0.40890
Mo 202.032	-0.0745	ppb	0.2061	276.8	8.4129	-0.07447
Na 330.237	-12.3536	ppb	116.239	940.9	32.8159	-12.35364
Ni 231.604	0.6902	ppb	0.2199	31.9	-2.6501	0.69015
Pb 220.353	-0.4363	ppb	1.0938	250.7	6.5738	-0.43634
Sb 206.834	2.9211	ppb	1.6130	55.2	0.2672	2.92109
Se 196.026	3.2514	ppb	3.3114	101.8	3.8395	3.25141
Sn 189.925	-0.9941	ppb	1.8230	183.4	-5.4265	-0.99413
Sr 216.596	-0.1625	ppb	0.2615	161.0	6.0474	-0.16248
Ti 334.941	0.0609	ppb	0.0227	37.3	45.5707	0.06089
Tl 190.794	0.4115	ppb	2.1041	511.3	-6.7295	0.41150
V 292.401	0.4160	ppb	0.1897	45.6	-0.8917	0.41598
Zn 206.200	0.2665	ppb	0.3885	145.8	1.6435	0.26646

680-106803-a-38-a (Samp) **11/5/2014, 7:30:39 AM** **Rack 4, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5563u	-1.1906u	-1.6869u
Al 308.215	113108	113073	113525
As 188.980	203.989	204.674	200.746
B 249.678	14.8137u	15.1657u	14.9992u
Ba 389.178	1805.18	1811.05	1810.72
Be 313.042	10.0062	10.0548	10.0729
Ca 370.602	127916	127982	128077
Cd 226.502	8.5795	8.5461	8.5634
Co 228.615	108.019	109.517	110.053
Cr 267.716	274.134	275.110	275.183
Cu 324.754	273.256	273.185	275.072
Fe 271.441	317746	317967	319338
K 766.491	7257.35	7295.61	7304.86
Mg 279.078	36859.6	36932.1	36924.5
Mn 257.610	14379.3	14410.9	14427.2
Mo 202.032	17.8311	17.2108	16.9103
Na 330.237	275.657u	460.642u	366.966u

Label	Replicates Concentration		
Ni 231.604	114.590	115.131	114.962
Pb 220.353	1039.35	1041.03	1038.59
Sb 206.834	-1.0590	1.2843	-0.9464
Se 196.026	-0.6743	-4.2190	-2.2053
Sn 189.925	72.8805	80.6535	78.0907
Sr 216.596	324.254	326.470	326.376
Ti 334.941	1204.93	1209.33	1211.41
Tl 190.794	-4.1005u	0.6840u	-2.4356u
V 292.401	370.410	371.788	372.730
Zn 206.200	2063.82	2077.05	2068.37

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1446	ppb	0.5667	49.5	-93.0296
Al 308.215	113236	ppb	251.273	0.2	838622
As 188.980	203.136	ppb	2.0981	1.0	126.965
B 249.678	14.9928	ppb	0.1761	1.2	-378.277
Ba 389.178	1808.98	ppb	3.3012	0.2	45198.3
Be 313.042	10.0446	ppb	0.0345	0.3	20613.5
Ca 370.602	127991	ppb	80.91	0.1	381525
Cd 226.502	8.5630	ppb	0.0167	0.2	1895.34
Co 228.615	109.196	ppb	1.0542	1.0	1481.73
Cr 267.716	274.809	ppb	0.5858	0.2	16860.2
Cu 324.754	273.838	ppb	1.0696	0.4	21902.1
Fe 271.441	318350	ppb	862.069	0.3	561725
K 766.491	7285.94	ppb	25.1859	0.3	325604
Mg 279.078	36905.4	ppb	39.8046	0.1	105954
Mn 257.610	14405.8	ppb	24.3384	0.2	3681340
Mo 202.032	17.3174	ppb	0.4695	2.7	125.157
Na 330.237	367.755	ppb	92.4948	25.2	-80.6365
Ni 231.604	114.894	ppb	0.2769	0.2	414.220
Pb 220.353	1039.66	ppb	1.2490	0.1	1820.23
Sb 206.834	-0.2404	ppb	1.3216	549.8	9.6943
Se 196.026	-2.3662	ppb	1.7778	75.1	9.0810
Sn 189.925	77.2082	ppb	3.9609	5.1	58.3458
Sr 216.596	325.700	ppb	1.2532	0.4	5089.98
Ti 334.941	1208.56	ppb	3.3050	0.3	409680
Tl 190.794	-1.9507	ppb	2.4288	124.5	-46.7749
V 292.401	371.643	ppb	1.1664	0.3	10815.9
Zn 206.200	2069.75	ppb	6.7211	0.3	2503.61

680-106803-a-39-a (Samp) **11/5/2014, 7:34:58 AM** **Rack 4, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.0794u	-1.5187u	-1.5445u
Al 308.215	117271	117107	117525
As 188.980	252.955	243.895	246.150
B 249.678	33.3065u	33.5948u	33.5414u
Ba 389.178	2197.67	2197.50	2206.66
Be 313.042	13.7939	13.7765	13.8047
Ca 370.602	116842	116404	116252
Cd 226.502	7.5876	7.6559	8.0865
Co 228.615	85.8826	86.1419	86.4776
Cr 267.716	245.998	245.635	246.448

Label	Replicates Concentration		
Cu 324.754	293.075	291.260	292.056
Fe 271.441	346593	347027	348356
K 766.491	9581.44	9581.54	9601.53
Mg 279.078	28538.9	28529.6	28630.4
Mn 257.610	11400.0	11385.3	11416.6
Mo 202.032	17.7554	17.5515	17.4139
Na 330.237	379.793u	599.974u	297.103u
Ni 231.604	103.251	101.654	101.416
Pb 220.353	1074.94	1067.28	1079.36
Sb 206.834	1.9969	-1.3952	1.7210
Se 196.026	5.8113	7.2815	1.8003
Sn 189.925	98.0222	95.5176	97.1134
Sr 216.596	411.256	409.960	412.838
Ti 334.941	1228.73	1227.77	1229.65
Tl 190.794	-0.9980u	-1.1490u	-2.3383u
V 292.401	384.033	383.853	383.611
Zn 206.200	1851.68	1841.57	1861.55

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3809	ppb	0.2614	18.9	-138.110
Al 308.215	117301	ppb	210.651	0.2	868745
As 188.980	247.667	ppb	4.7164	1.9	155.816
B 249.678	33.4809	ppb	0.1534	0.5	-128.934
Ba 389.178	2200.61	ppb	5.2421	0.2	54948.9
Be 313.042	13.7917	ppb	0.0142	0.1	28358.9
Ca 370.602	116499	ppb	306.1	0.3	346555
Cd 226.502	7.7767	ppb	0.2705	3.5	1989.53
Co 228.615	86.1674	ppb	0.2983	0.3	1183.51
Cr 267.716	246.027	ppb	0.4072	0.2	15124.1
Cu 324.754	292.130	ppb	0.9096	0.3	23352.7
Fe 271.441	347325	ppb	918.837	0.3	612844
K 766.491	9588.17	ppb	11.5694	0.1	428406
Mg 279.078	28566.3	ppb	55.7192	0.2	81999.5
Mn 257.610	11400.6	ppb	15.6635	0.1	2913721
Mo 202.032	17.5736	ppb	0.1718	1.0	125.570
Na 330.237	425.623	ppb	156.550	36.8	-79.2949
Ni 231.604	102.107	ppb	0.9977	1.0	373.629
Pb 220.353	1073.86	ppb	6.1105	0.6	1880.42
Sb 206.834	0.7742	ppb	1.8839	243.3	11.9360
Se 196.026	4.9643	ppb	2.8370	57.1	12.2718
Sn 189.925	96.8844	ppb	1.2679	1.3	74.3914
Sr 216.596	411.351	ppb	1.4416	0.4	6332.41
Ti 334.941	1228.72	ppb	0.9399	0.1	416501
Tl 190.794	-1.4951	ppb	0.7341	49.1	-52.1654
V 292.401	383.832	ppb	0.2120	0.1	11179.9
Zn 206.200	1851.60	ppb	9.9878	0.5	2236.65

680-106803-a-40-a (Samp) **11/5/2014, 7:39:16 AM** **Rack 4, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3923	-0.2939u	0.4966
Al 308.215	80770.9	80666.1	80626.6
As 188.980	172.992	172.475	172.429

Label	Replicates Concentration		
B 249.678	10.0601u	9.5522u	9.3146u
Ba 389.178	1214.58	1212.69	1213.89
Be 313.042	6.9632	6.9525	6.9543
Ca 370.602	24133	24121	24126
Cd 226.502	14.3187	13.9577	14.2758
Co 228.615	75.4097	75.3059	74.9191
Cr 267.716	329.254	328.534	328.864
Cu 324.754	257.059	257.647	256.292
Fe 271.441	249756	249425	249299
K 766.491	3759.02	3754.88	3749.72
Mg 279.078	6184.45	6158.73	6168.94
Mn 257.610	7612.20	7591.78	7579.74
Mo 202.032	12.3662	11.7534	11.2142
Na 330.237	458.962u	474.769u	384.228u
Ni 231.604	109.632	109.022	109.298
Pb 220.353	929.551	926.669	929.749
Sb 206.834	2.8499	4.0929	1.3933
Se 196.026	3.0577	1.8297	1.4897
Sn 189.925	52.1589	55.9973	55.6539
Sr 216.596	140.223	139.307	139.171
Ti 334.941	977.695	975.818	976.552
Tl 190.794	0.0853u	-4.5514u	-0.8111u
V 292.401	318.677	318.312	317.868
Zn 206.200	2452.59	2442.77	2449.19

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1983	ppb	0.4294	216.5	8.2835
Al 308.215	80687.8	ppb	74.5624	0.1	597765
As 188.980	172.632	ppb	0.3123	0.2	107.212
B 249.678	9.6423	ppb	0.3808	3.9	-305.752
Ba 389.178	1213.72	ppb	0.9538	0.1	30295.2
Be 313.042	6.9567	ppb	0.0057	0.1	14188.4
Ca 370.602	24127	ppb	6.041	0.0	70028
Cd 226.502	14.1841	ppb	0.1972	1.4	1854.99
Co 228.615	75.2116	ppb	0.2586	0.3	1027.08
Cr 267.716	328.884	ppb	0.3605	0.1	20046.3
Cu 324.754	257.000	ppb	0.6793	0.3	20547.9
Fe 271.441	249493	ppb	235.768	0.1	440230
K 766.491	3754.54	ppb	4.6588	0.1	167917
Mg 279.078	6170.70	ppb	12.9513	0.2	17593.9
Mn 257.610	7594.57	ppb	16.4120	0.2	1940972
Mo 202.032	11.7779	ppb	0.5764	4.9	86.1643
Na 330.237	439.320	ppb	48.3614	11.0	-69.7090
Ni 231.604	109.317	ppb	0.3054	0.3	388.947
Pb 220.353	928.656	ppb	1.7241	0.2	1623.40
Sb 206.834	2.7787	ppb	1.3512	48.6	12.6873
Se 196.026	2.1257	ppb	0.8248	38.8	8.6285
Sn 189.925	54.6034	ppb	2.1239	3.9	39.9119
Sr 216.596	139.567	ppb	0.5718	0.4	2327.80
Ti 334.941	976.688	ppb	0.9459	0.1	331035
Tl 190.794	-1.7591	ppb	2.4594	139.8	-40.5009
V 292.401	318.285	ppb	0.4051	0.1	9246.92
Zn 206.200	2448.18	ppb	4.9837	0.2	2967.68

680-106803-a-41-a (Samp) **11/5/2014, 7:43:36 AM** **Rack 4, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.5560u	-1.3692u	-1.1086u
Al 308.215	111908	111869	111947
As 188.980	190.859	188.500	189.924
B 249.678	14.4036u	14.6475u	14.8516u
Ba 389.178	1452.07	1449.58	1451.25
Be 313.042	9.3274	9.3271	9.3354
Ca 370.602	62439	62183	62145
Cd 226.502	5.8158	6.0942	6.1384
Co 228.615	87.2489	88.0643	86.7115
Cr 267.716	310.572	310.605	310.670
Cu 324.754	370.363	373.513	369.900
Fe 271.441	275442	275168	275157
K 766.491	7350.14	7314.21	7325.87
Mg 279.078	19993.0	19978.3	19999.4
Mn 257.610	9804.49	9810.66	9793.24
Mo 202.032	16.9548	15.9409	16.8485
Na 330.237	413.833u	338.921u	483.232u
Ni 231.604	107.829	106.191	106.548
Pb 220.353	926.846	927.224	920.621
Sb 206.834	-0.8115	-1.3013	0.3532
Se 196.026	7.3471	-13.1802u	-4.6154
Sn 189.925	93.0495	97.9355	93.7675
Sr 216.596	270.759	273.146	271.887
Ti 334.941	1162.05	1158.93	1160.97
Tl 190.794	1.2760u	2.3504u	-0.1332u
V 292.401	354.280	353.746	353.268
Zn 206.200	1621.81	1614.15	1621.79

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3446	ppb	0.2247	16.7	-125.336
Al 308.215	111908	ppb	38.9699	0.0	828720
As 188.980	189.761	ppb	1.1878	0.6	118.518
B 249.678	14.6343	ppb	0.2243	1.5	-281.602
Ba 389.178	1450.97	ppb	1.2653	0.1	36236.6
Be 313.042	9.3299	ppb	0.0047	0.1	19113.1
Ca 370.602	62256	ppb	159.5	0.3	184410
Cd 226.502	6.0161	ppb	0.1749	2.9	1575.01
Co 228.615	87.3415	ppb	0.6811	0.8	1191.83
Cr 267.716	310.616	ppb	0.0498	0.0	18971.2
Cu 324.754	371.259	ppb	1.9657	0.5	29537.0
Fe 271.441	275256	ppb	161.246	0.1	485687
K 766.491	7330.07	ppb	18.3311	0.3	327575
Mg 279.078	19990.2	ppb	10.8255	0.1	57335.9
Mn 257.610	9802.79	ppb	8.8321	0.1	2505253
Mo 202.032	16.5814	ppb	0.5573	3.4	121.788
Na 330.237	411.995	ppb	72.1730	17.5	-56.4907
Ni 231.604	106.856	ppb	0.8614	0.8	382.996
Pb 220.353	924.897	ppb	3.7082	0.4	1618.71
Sb 206.834	-0.5865	ppb	0.8499	144.9	8.1079
Se 196.026	-3.4828	ppb	10.3104	296.0	6.8439
Sn 189.925	94.9175	ppb	2.6382	2.8	72.7875
Sr 216.596	271.931	ppb	1.1940	0.4	4244.96

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	1160.65	ppb	1.5873	0.1	393405
Tl 190.794	1.1644	ppb	1.2456	107.0	-39.5025
V 292.401	353.765	ppb	0.5065	0.1	10281.5
Zn 206.200	1619.25	ppb	4.4172	0.3	1957.28

CRI (Samp) **11/5/2014, 7:47:55 AM** **Rack 4, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.3896	10.2643	9.8926
Al 308.215	200.731	200.861	201.649
As 188.980	17.3850	19.0728	20.8826
B 249.678	92.7572	92.5065	93.5346
Ba 389.178	10.3391	9.5083	10.5834
Be 313.042	3.9590	3.9592	3.9932
Ca 370.602	501.6	500.8	507.0
Cd 226.502	4.7868	4.7713	4.8562
Co 228.615	9.4450	9.9384	9.4914
Cr 267.716	9.9705	10.0839	10.1933
Cu 324.754	20.9321	21.0281	21.1699
Fe 271.441	67.8708	71.2990	69.7017
K 766.491	1055.17	1053.80	1059.51
Mg 279.078	493.372	490.600	496.233
Mn 257.610	11.2179	11.3489	11.3326
Mo 202.032	9.6884	9.6502	9.5164
Na 330.237	732.532	926.383	981.214
Ni 231.604	39.8777	38.6280	39.8765
Pb 220.353	9.1065	9.9672	9.5181
Sb 206.834	18.8229	16.6811	19.2480
Se 196.026	18.6114	20.4801	21.7059
Sn 189.925	48.9402	50.0437	49.7088
Sr 216.596	9.8230	9.6664	9.4014
Ti 334.941	10.0241	10.0536	10.0721
Tl 190.794	23.8716	23.6276	25.8224
V 292.401	10.1990	10.1026	10.3179
Zn 206.200	21.1429	20.4729	19.9751

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.1822	ppb	0.2585	2.5	896.011
Al 308.215	201.080	ppb	0.4964	0.2	1987.88
As 188.980	19.1134	ppb	1.7492	9.2	8.0256
B 249.678	92.9328	ppb	0.5361	0.6	1728.71
Ba 389.178	10.1436	ppb	0.5636	5.6	182.049
Be 313.042	3.9705	ppb	0.0197	0.5	7987.84
Ca 370.602	503.1	ppb	3.368	0.7	1553
Cd 226.502	4.8048	ppb	0.0452	0.9	261.108
Co 228.615	9.6249	ppb	0.2724	2.8	126.682
Cr 267.716	10.0826	ppb	0.1114	1.1	653.026
Cu 324.754	21.0434	ppb	0.1196	0.6	1897.70
Fe 271.441	69.6238	ppb	1.7154	2.5	140.573
K 766.491	1056.16	ppb	2.9812	0.3	47426.3
Mg 279.078	493.402	ppb	2.8168	0.6	1440.42
Mn 257.610	11.2998	ppb	0.0714	0.6	2987.31
Mo 202.032	9.6184	ppb	0.0903	0.9	83.1516

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	880.043	ppb	130.657	14.8	76.0586
Ni 231.604	39.4607	ppb	0.7212	1.8	128.837
Pb 220.353	9.5306	ppb	0.4304	4.5	23.7113
Sb 206.834	18.2506	ppb	1.3758	7.5	23.8890
Se 196.026	20.2658	ppb	1.5583	7.7	11.9619
Sn 189.925	49.5642	ppb	0.5658	1.1	35.8035
Sr 216.596	9.6302	ppb	0.2131	2.2	142.940
Ti 334.941	10.0499	ppb	0.0242	0.2	3431.38
Tl 190.794	24.4405	ppb	1.2029	4.9	21.6276
V 292.401	10.2065	ppb	0.1078	1.1	278.949
Zn 206.200	20.5303	ppb	0.5860	2.9	26.2745

Cont Calib Verif (CCV) **11/5/2014, 7:52:13 AM** **Rack 4, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	502.207	505.646	501.574
Al 308.215	4813.37	4820.39	4814.56
As 188.980	471.778	485.707	475.574
B 249.678	478.398	481.321	479.380
Ba 389.178	4885.67	4902.40	4882.83
Be 313.042	485.376	486.755	484.036
Ca 370.602	4869	4862	4843
Cd 226.502	485.413	485.854	483.612
Co 228.615	490.402	490.904	489.205
Cr 267.716	4990.32	4998.72	4980.02
Cu 324.754	5026.94	5069.71	5015.23
Fe 271.441	4836.30	4842.78	4827.56
K 766.491	10304.5	10326.5	10302.2
Mg 279.078	4822.69	4825.32	4812.17
Mn 257.610	4946.63	4959.68	4932.71
Mo 202.032	481.137	482.418	481.980
Na 330.237	7167.81	7268.30	7070.08
Ni 231.604	2436.64	2433.70	2412.55
Pb 220.353	499.443	496.111	492.491
Sb 206.834	935.046	942.528	933.905
Se 196.026	4821.00	4800.15	4805.78
Sn 189.925	4868.83	4871.92	4820.93
Sr 216.596	2403.90	2407.16	2394.85
Ti 334.941	484.860	485.948	484.723
Tl 190.794	4936.73	4949.41	4917.75
V 292.401	4848.67	4842.21	4828.88
Zn 206.200	2408.92	2410.67	2398.96

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	503.142	ppb	2.1912	0.4	44309.8	100.62848
Al 308.215	4816.11	ppb	3.7574	0.1	36685.0	96.32212
As 188.980	477.686	ppb	7.2011	1.5	306.509	95.53723
B 249.678	479.700	ppb	1.4872	0.3	8405.66	95.93993
Ba 389.178	4890.30	ppb	10.5748	0.2	121648	97.80595
Be 313.042	485.389	ppb	1.3596	0.3	1003756	97.07784
Ca 370.602	4858	ppb	13.41	0.3	14975	97.16427
Cd 226.502	484.960	ppb	1.1881	0.2	23691.1	96.99194
Co 228.615	490.170	ppb	0.8728	0.2	6411.76	98.03407

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	4989.69	ppb	9.3685	0.2	300830	99.79372
Cu 324.754	5037.29	ppb	28.6741	0.6	395980	100.74587
Fe 271.441	4835.54	ppb	7.6364	0.2	8670.14	96.71090
K 766.491	10311.1	ppb	13.4254	0.1	460686	103.11097
Mg 279.078	4820.06	ppb	6.9600	0.1	13792.1	96.40116
Mn 257.610	4946.34	ppb	13.4892	0.3	1263641	98.92686
Mo 202.032	481.845	ppb	0.6514	0.1	3718.92	96.36902
Na 330.237	7168.73	ppb	99.1131	1.4	322.094	95.58302
Ni 231.604	2427.63	ppb	13.1446	0.5	8228.50	97.10511
Pb 220.353	496.015	ppb	3.4769	0.7	865.396	99.20293
Sb 206.834	937.160	ppb	4.6842	0.5	1497.15	93.71596
Se 196.026	4808.98	ppb	10.7892	0.2	2298.28	96.17954
Sn 189.925	4853.89	ppb	28.5875	0.6	3953.67	97.07784
Sr 216.596	2401.97	ppb	6.3773	0.3	33771.6	96.07876
Ti 334.941	485.177	ppb	0.6713	0.1	164441	97.03539
Tl 190.794	4934.63	ppb	15.9348	0.3	5824.54	98.69262
V 292.401	4839.92	ppb	10.0923	0.2	139005	96.79832
Zn 206.200	2406.18	ppb	6.3164	0.3	2912.93	96.24722

Cont Calib Blank (CCB) **11/5/2014, 7:56:32 AM** **Rack 4, Tube 14**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0769	-0.2450u	-0.0286u
Al 308.215	0.0286	-1.0840u	0.8802
As 188.980	-1.7780u	-2.5828u	-0.1263u
B 249.678	2.9011	1.5741	0.9844
Ba 389.178	0.5193	0.2975	1.0175
Be 313.042	-0.0132u	-0.0165u	-0.0159u
Ca 370.602	6.257	2.143	0.8953
Cd 226.502	-0.0064u	-0.0110u	0.0362
Co 228.615	0.1247	0.0733	0.0215
Cr 267.716	0.2065	0.1308	0.1054
Cu 324.754	0.1926	0.0734	0.1876
Fe 271.441	-1.3764u	5.1357	4.3696
K 766.491	0.1030	0.5064	-0.1551u
Mg 279.078	1.3107	2.3381	-0.6183u
Mn 257.610	0.2498	0.2780	0.3046
Mo 202.032	-0.2140u	-0.0754u	0.0892
Na 330.237	-45.2897u	26.3414	-92.3853u
Ni 231.604	1.2653	-0.2301u	-0.1758u
Pb 220.353	-0.9062u	0.7351	-0.2989u
Sb 206.834	1.4802	1.6809	2.0073
Se 196.026	4.5421	-1.5926u	-1.4683u
Sn 189.925	-2.1069u	0.4456	-1.8350u
Sr 216.596	-0.0182u	0.0305	-0.4031u
Ti 334.941	0.0328	0.0600	0.0179
Tl 190.794	-0.0731u	-1.3551u	-0.4519u
V 292.401	-0.1042u	0.3144	0.1599
Zn 206.200	0.8837	1.2790	-0.2292u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0656	ppb	0.1641	250.4	-7.1775	-0.06556
Al 308.215	-0.0584	ppb	0.9850	1686.7	498.469	-0.05840

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	-1.4957	ppb	1.2523	83.7	-5.3929	-1.49572
B 249.678	1.8199	ppb	0.9817	53.9	156.344	1.81986
Ba 389.178	0.6114	ppb	0.3687	60.3	-56.0499	0.61141
Be 313.042	-0.0152	ppb	0.0018	11.6	-253.306	-0.01520
Ca 370.602	3.098	ppb	2.806	90.6	46.88	3.09832
Cd 226.502	0.0063	ppb	0.0260	415.8	26.8437	0.00626
Co 228.615	0.0732	ppb	0.0516	70.6	1.9494	0.07316
Cr 267.716	0.1476	ppb	0.0526	35.6	54.0974	0.14756
Cu 324.754	0.1512	ppb	0.0674	44.6	255.875	0.15123
Fe 271.441	2.7096	ppb	3.5593	131.4	21.0752	2.70964
K 766.491	0.1514	ppb	0.3334	220.1	272.446	0.15143
Mg 279.078	1.0102	ppb	1.5009	148.6	22.5538	1.01020
Mn 257.610	0.2775	ppb	0.0274	9.9	167.068	0.27746
Mo 202.032	-0.0667	ppb	0.1518	227.5	8.4731	-0.06671
Na 330.237	-37.1112	ppb	59.7844	161.1	31.6037	-37.11123
Ni 231.604	0.2865	ppb	0.8481	296.0	-4.0202	0.28648
Pb 220.353	-0.1567	ppb	0.8299	529.7	7.0544	-0.15666
Sb 206.834	1.7228	ppb	0.2660	15.4	-1.5841	1.72281
Se 196.026	0.4937	ppb	3.5065	710.2	2.5234	0.49374
Sn 189.925	-1.1654	ppb	1.4018	120.3	-5.5662	-1.16543
Sr 216.596	-0.1303	ppb	0.2376	182.4	6.5031	-0.13027
Ti 334.941	0.0369	ppb	0.0213	57.8	37.4435	0.03691
Tl 190.794	-0.6267	ppb	0.6586	105.1	-7.9535	-0.62670
V 292.401	0.1233	ppb	0.2117	171.6	-9.3238	0.12334
Zn 206.200	0.6445	ppb	0.7820	121.3	2.1042	0.64450

CRI (Samp) **11/5/2014, 8:00:51 AM** **Rack 4, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.3695	9.8755	10.4246
Al 308.215	195.465	193.771	195.226
As 188.980	18.4342	18.3641	16.2698
B 249.678	94.5913	94.5308	95.4111
Ba 389.178	10.0527	10.0003	9.6182
Be 313.042	3.9857	3.9609	3.9963
Ca 370.602	502.2	500.9	507.1
Cd 226.502	4.8271	4.7707	4.7910
Co 228.615	10.0344	9.7495	9.5463
Cr 267.716	9.9827	9.9578	10.1148
Cu 324.754	20.5223	20.9828	20.9302
Fe 271.441	54.6669	50.2745	52.1514
K 766.491	1060.72	1053.27	1063.39
Mg 279.078	494.921	490.211	495.444
Mn 257.610	10.8169	10.6647	10.7714
Mo 202.032	9.2137	9.4349	9.3751
Na 330.237	856.790	1083.59	887.097
Ni 231.604	41.0460	39.6915	40.4190
Pb 220.353	11.6282	11.1720	10.3997
Sb 206.834	21.7917	21.0980	21.6231
Se 196.026	19.1167	18.6864	25.3576
Sn 189.925	50.7400	46.2972	48.6324
Sr 216.596	9.5972	9.6996	9.7158
Ti 334.941	9.9293	9.8243	9.9939

Label	Replicates Concentration		
Tl 190.794	25.4703	23.9982	24.1945
V 292.401	10.4634	10.3991	10.5920
Zn 206.200	19.9039	21.1210	19.7759

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.2232	ppb	0.3024	3.0	899.626
Al 308.215	194.821	ppb	0.9172	0.5	1941.53
As 188.980	17.6894	ppb	1.2299	7.0	7.0985
B 249.678	94.8444	ppb	0.4917	0.5	1761.79
Ba 389.178	9.8904	ppb	0.2372	2.4	175.736
Be 313.042	3.9810	ppb	0.0182	0.5	8009.65
Ca 370.602	503.4	ppb	3.269	0.6	1554
Cd 226.502	4.7963	ppb	0.0285	0.6	260.604
Co 228.615	9.7767	ppb	0.2452	2.5	128.672
Cr 267.716	10.0184	ppb	0.0844	0.8	649.145
Cu 324.754	20.8118	ppb	0.2521	1.2	1879.48
Fe 271.441	52.3643	ppb	2.2039	4.2	110.125
K 766.491	1059.13	ppb	5.2458	0.5	47558.7
Mg 279.078	493.525	ppb	2.8819	0.6	1440.79
Mn 257.610	10.7510	ppb	0.0781	0.7	2847.06
Mo 202.032	9.3412	ppb	0.1145	1.2	81.0154
Na 330.237	942.491	ppb	123.129	13.1	79.1237
Ni 231.604	40.3855	ppb	0.6779	1.7	131.972
Pb 220.353	11.0667	ppb	0.6210	5.6	26.3531
Sb 206.834	21.5043	ppb	0.3618	1.7	28.9170
Se 196.026	21.0535	ppb	3.7336	17.7	12.3374
Sn 189.925	48.5565	ppb	2.2224	4.6	34.9818
Sr 216.596	9.6709	ppb	0.0643	0.7	143.461
Ti 334.941	9.9158	ppb	0.0856	0.9	3385.94
Tl 190.794	24.5543	ppb	0.7993	3.3	21.7657
V 292.401	10.4848	ppb	0.0982	0.9	287.012
Zn 206.200	20.2669	ppb	0.7424	3.7	25.9550

Cont Calib Verif (CCV) **11/5/2014, 8:05:10 AM** **Rack 4, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	504.762	504.204	502.929
Al 308.215	4837.17	4831.89	4824.28
As 188.980	474.790	472.572	482.777
B 249.678	480.597	482.602	484.190
Ba 389.178	4899.32	4892.82	4893.12
Be 313.042	485.753	483.715	484.038
Ca 370.602	4822	4827	4833
Cd 226.502	484.833	486.098	486.353
Co 228.615	490.296	490.117	491.542
Cr 267.716	4993.50	4988.77	4994.00
Cu 324.754	5060.33	5072.23	5026.38
Fe 271.441	4848.53	4828.89	4841.61
K 766.491	10378.6	10320.7	10359.3
Mg 279.078	4828.70	4823.81	4827.40
Mn 257.610	4956.39	4951.28	4963.80
Mo 202.032	480.252	482.872	483.354
Na 330.237	7392.74	7394.56	7270.76

Label	Replicates Concentration		
Ni 231.604	2417.26	2432.74	2415.23
Pb 220.353	487.175	492.367	492.675
Sb 206.834	936.345	941.423	941.380
Se 196.026	4849.66	4844.58	4822.00
Sn 189.925	4897.25	4849.79	4862.17
Sr 216.596	2402.09	2402.23	2404.25
Ti 334.941	486.611	485.329	485.560
Tl 190.794	4937.12	4929.89	4942.50
V 292.401	4835.06	4826.69	4830.35
Zn 206.200	2398.00	2411.12	2412.00

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	503.965	ppb	0.9398	0.2	44382.0	100.79305
Al 308.215	4831.11	ppb	6.4781	0.1	36796.8	96.62229
As 188.980	476.713	ppb	5.3673	1.1	305.875	95.34264
B 249.678	482.463	ppb	1.8007	0.4	8453.40	96.49255
Ba 389.178	4895.09	ppb	3.6702	0.1	121767	97.90173
Be 313.042	484.502	ppb	1.0952	0.2	1001921	96.90036
Ca 370.602	4827	ppb	5.433	0.1	14883	96.54259
Cd 226.502	485.761	ppb	0.8141	0.2	23730.2	97.15224
Co 228.615	490.652	ppb	0.7765	0.2	6418.09	98.13033
Cr 267.716	4992.09	ppb	2.8840	0.1	300975	99.84176
Cu 324.754	5052.98	ppb	23.7912	0.5	397212	101.05954
Fe 271.441	4839.68	ppb	9.9577	0.2	8677.63	96.79356
K 766.491	10352.9	ppb	29.5033	0.3	462551	103.52867
Mg 279.078	4826.64	ppb	2.5349	0.1	13810.9	96.53274
Mn 257.610	4957.15	ppb	6.2947	0.1	1266403	99.14307
Mo 202.032	482.159	ppb	1.6692	0.3	3721.33	96.43188
Na 330.237	7352.69	ppb	70.9583	1.0	331.104	98.03583
Ni 231.604	2421.74	ppb	9.5759	0.4	8208.53	96.86960
Pb 220.353	490.739	ppb	3.0901	0.6	856.335	98.14780
Sb 206.834	939.716	ppb	2.9198	0.3	1501.29	93.97162
Se 196.026	4838.75	ppb	14.7258	0.3	2312.49	96.77496
Sn 189.925	4869.74	ppb	24.6209	0.5	3966.59	97.39474
Sr 216.596	2402.86	ppb	1.2060	0.1	33784.3	96.11433
Ti 334.941	485.833	ppb	0.6836	0.1	164664	97.16669
Tl 190.794	4936.50	ppb	6.3288	0.1	5826.76	98.73005
V 292.401	4830.70	ppb	4.1993	0.1	138739	96.61402
Zn 206.200	2407.04	ppb	7.8378	0.3	2913.92	96.28160

Cont Calib Blank (CCB) **11/5/2014, 8:09:29 AM** **Rack 4, Tube 26**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3320u	-0.1796u	-0.1438u
Al 308.215	0.6169	0.8028	0.3523
As 188.980	0.3200	-0.7397u	-2.9242u
B 249.678	3.3397	1.8145	1.5984
Ba 389.178	0.3048	0.8838	1.4118
Be 313.042	-0.0214u	-0.0162u	-0.0204u
Ca 370.602	-0.1486u	1.385	0.8837
Cd 226.502	-0.0921u	-0.0425u	0.0421
Co 228.615	0.4791	-0.3205u	0.0031
Cr 267.716	0.0877	0.2115	0.1799

Label	Replicates Concentration		
Cu 324.754	0.4185	0.1618	-0.1082u
Fe 271.441	-1.8418u	5.8800	-1.5730u
K 766.491	0.5286	-0.1278u	0.9477
Mg 279.078	2.1077	-2.8612u	0.7188
Mn 257.610	0.1923	0.2325	0.2849
Mo 202.032	0.3702	0.2415	-0.4067u
Na 330.237	97.8035	19.4616	-92.8092u
Ni 231.604	-0.0829u	0.1759	-0.2750u
Pb 220.353	-0.0895u	0.2840	0.1184
Sb 206.834	4.0397	0.1619	3.4634
Se 196.026	1.1602	3.5360	-1.7235u
Sn 189.925	0.6543	1.0328	-0.9915u
Sr 216.596	-0.0947u	0.1845	-0.1267u
Ti 334.941	0.0584	0.0471	-0.0289u
Tl 190.794	-1.7498u	0.4759	-1.3388u
V 292.401	0.1614	0.3078	0.3934
Zn 206.200	0.2324	-0.7764u	-0.1951u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2185	ppb	0.1000	45.7	-20.6615	-0.21849
Al 308.215	0.5907	ppb	0.2264	38.3	503.283	0.59069
As 188.980	-1.1146	ppb	1.6543	148.4	-5.1447	-1.11462
B 249.678	2.2509	ppb	0.9491	42.2	163.794	2.25088
Ba 389.178	0.8668	ppb	0.5537	63.9	-49.6938	0.86681
Be 313.042	-0.0193	ppb	0.0028	14.3	-261.890	-0.01934
Ca 370.602	0.7067	ppb	0.7820	110.7	39.71	0.70668
Cd 226.502	-0.0308	ppb	0.0678	220.0	25.0267	-0.03084
Co 228.615	0.0539	ppb	0.4022	745.7	1.6924	0.05394
Cr 267.716	0.1597	ppb	0.0644	40.3	54.8271	0.15969
Cu 324.754	0.1574	ppb	0.2634	167.4	256.360	0.15735
Fe 271.441	0.8217	ppb	4.3826	533.3	17.7443	0.82173
K 766.491	0.4495	ppb	0.5421	120.6	285.756	0.44949
Mg 279.078	-0.0116	ppb	2.5637	22138.0	19.6113	-0.01158
Mn 257.610	0.2366	ppb	0.0464	19.6	156.625	0.23659
Mo 202.032	0.0684	ppb	0.4164	609.2	9.5148	0.06836
Na 330.237	8.1520	ppb	95.8083	1175.3	33.8382	8.15198
Ni 231.604	-0.0607	ppb	0.2263	373.1	-5.1978	-0.06065
Pb 220.353	0.1043	ppb	0.1872	179.5	7.5030	0.10429
Sb 206.834	2.5550	ppb	2.0924	81.9	-0.3017	2.55502
Se 196.026	0.9909	ppb	2.6339	265.8	2.7606	0.99087
Sn 189.925	0.2319	ppb	1.0763	464.2	-4.4267	0.23186
Sr 216.596	-0.0123	ppb	0.1712	1390.7	8.1668	-0.01231
Ti 334.941	0.0255	ppb	0.0475	185.8	33.5940	0.02555
Tl 190.794	-0.8709	ppb	1.1843	136.0	-8.2417	-0.87090
V 292.401	0.2875	ppb	0.1173	40.8	-4.6206	0.28753
Zn 206.200	-0.2464	ppb	0.5064	205.5	1.0198	-0.24636

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-106803-1

SDG No.: 680-106803-01

Batch Number: 356607 Batch Start Date: 11/03/14 09:13 Batch Analyst: West, Ryan

Batch Method: 3050B Batch End Date: 11/03/14 14:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00026	MS_LCS1_WK 00014	MS_LCS2_wk 00167
MB 680-356607/1		3050B, 6010C		CALC NOT SET TO RUN	1.07 g	100 mL			
LCS 680-356607/2		3050B, 6010C		CALC NOT SET TO RUN	1.03 g	100 mL	1 mL	1 mL	1 mL
680-106803-A-2	CV0971VV-CS12"	3050B, 6010C	T	CALC NOT SET TO RUN	1.04 g	100 mL			
680-106803-A-2 MS	CV0971VV-CS12"	3050B, 6010C	T	CALC NOT SET TO RUN	1.06 g	100 mL	1 mL	1 mL	1 mL
680-106803-A-2 MSD	CV0971VV-CS12"	3050B, 6010C	T	CALC NOT SET TO RUN	1.05 g	100 mL	1 mL	1 mL	1 mL
680-106803-A-1	CV0971VV-CS6"	3050B, 6010C	T	CALC NOT SET TO RUN	1.07 g	100 mL			
680-106803-A-3	CV0971VV-CS18"	3050B, 6010C	T	CALC NOT SET TO RUN	1.03 g	100 mL			
680-106803-A-4	CV0971VV-CS24"	3050B, 6010C	T	CALC NOT SET TO RUN	1.01 g	100 mL			
680-106803-A-5	CV0971JJ-CS6"	3050B, 6010C	T	CALC NOT SET TO RUN	1.05 g	100 mL			
680-106803-A-6	CV0971JJ-CSD6"	3050B, 6010C	T	CALC NOT SET TO RUN	1.10 g	100 mL			
680-106803-A-7	CV0971JJ-CS12"	3050B, 6010C	T	CALC NOT SET TO RUN	1.13 g	100 mL			
680-106803-A-8	CV0971JJ-CS18"	3050B, 6010C	T	CALC NOT SET TO RUN	1.17 g	100 mL			
680-106803-A-9	CV0971JJ-CS24"	3050B, 6010C	T	CALC NOT SET TO RUN	1.06 g	100 mL			
680-106803-A-10	CV0971NN-CS6"	3050B, 6010C	T	CALC NOT SET TO RUN	1.12 g	100 mL			
680-106803-A-11	CV0971NN-CS12"	3050B, 6010C	T	CALC NOT SET TO RUN	1.09 g	100 mL			
680-106803-A-12	CV0971NN-CSD12"	3050B, 6010C	T	CALC NOT SET TO RUN	1.07 g	100 mL			
680-106803-A-13	CV0971NN-CS18"	3050B, 6010C	T	CALC NOT SET TO RUN	1.09 g	100 mL			
680-106803-A-14	CV0971NN-CS24"	3050B, 6010C	T	CALC NOT SET TO RUN	1.07 g	100 mL			
680-106803-A-15	CV0971AP-GS6"	3050B, 6010C	T	CALC NOT SET TO RUN	1.03 g	100 mL			
680-106803-A-16	CV0971AP-GS12"	3050B, 6010C	T	CALC NOT SET TO RUN	1.04 g	100 mL			
680-106803-A-17	CV0971AP-GS18"	3050B, 6010C	T	CALC NOT SET TO RUN	1.13 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.: 680-106803-1

SDG No.: 680-106803-01

Batch Number: 356607 Batch Start Date: 11/03/14 09:13 Batch Analyst: West, Ryan

Batch Method: 3050B Batch End Date: 11/03/14 14:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00026	MS_LCS1_WK 00014	MS_LCS2_wk 00167
680-106803-A-18	CV0971AP-GS24"	3050B, 6010C	T	CALC NOT SET TO RUN	1.18 g	100 mL			
680-106803-A-19	CV0971AD-GS6"	3050B, 6010C	T	CALC NOT SET TO RUN	1.01 g	100 mL			
680-106803-A-20	CV0971AD-GS12"	3050B, 6010C	T	CALC NOT SET TO RUN	1.12 g	100 mL			

Batch Notes	
Analyst	CRW
Balance ID	ME 25
Blank Soil Lot Number	3818263
Hydrogen peroxide lot number	3804513
Lot # of hydrochloric acid	3787163 & 3822125
Lot # of Nitric Acid	3804533
Hood ID or number	FH8
Hot Block ID number	10
Nominal Amount Used	1 g
Oven, Bath or Block Temperature 1	96 Degrees C
Oven, Bath or Block Temperature 2	96 Degrees C
Pipette ID	ME16
Perform Calculation (0=No, 1=Yes)	0
ID number of the thermometer	ME Prep 15
Digestion Tube/Cup Lot #	3797050 & 3810903
Uncorrected Temperature	96 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 87251

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)
35TH AVE INVESTIGATION	2014078-1006	AL

PAGE 1 OF 5

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
RUSSELL HENDERSON	678-355-5550	

CLIENT NAME	CLIENT E-MAIL
OTIE	RHENDERSON@OTIE.COM

CLIENT ADDRESS: 1220 KENNESTONE CIRCLE, MARIETTA, GA 30066

COMPANY CONTRACTING THIS WORK (if applicable):

STANDARD REPORT DELIVERY ( )

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) (X)

DATE DUE 7DAY TAT

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS / PRESERVATIVE / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAHs	AL	As	Fe	Pb						REMARKS
10/27/14	1445	CV0971VV-CS6"	C		S			X	X	X	X	X						
10/27/14	1500	CV0971VV-CS12"	C		S			X	X	X	X	X						MS/MSD
10/27/14	1515	CV0971VV-CS18"	C		S			X	X	X	X	X						
10/27/14	1530	CV0971VV-CS24"	C		S			X	X	X	X	X						
10/28/14	0840	CV0971JJ-CS6"	C		S			X	X	X	X	X						
10/28/14	0845	CV0971JJ-CSD6"	C		S			X	X	X	X	X						
10/28/14	0855	CV0971JJ-CS12"	C		S			X	X	X	X	X						
10/28/14	0910	CV0971JJ-CS18"	C		S			X	X	X	X	X						
10/28/14	0925	CV0971JJ-CS24"	C		S			X	X	X	X	X						
10/28/14	1015	CV0971NN-CS6"	C		S			X	X	X	X	X						
10/28/14	1030	CV0971NN-CS12"	C		S			X	X	X	X	X						
10/28/14	1035	CV0971NN-CSD12"	C		S			X	X	X	X	X						

680-106803 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	10/30/14	1600						

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]	10/31/14	0934	YES ( ) NO ( )		680-106803	3.6/4.4/4.2

TAL8240-680 (1008)

Serial Number 87249

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE 2 OF 5
35TH AVE INVESTIGATION	2014078-1006	AL	
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.	
CLIENT (SITE) PM: RUSSEL HENDERSON	CLIENT PHONE: 678-355-5550	CLIENT FAX	
CLIENT NAME: OTIE	CLIENT E-MAIL: RHENDERSON@OTIE.COM		
CLIENT ADDRESS: 1220 KENNESTONE CIRCLE, MARIETTA, GA 30066			
COMPANY CONTRACTING THIS WORK (if applicable)			

STANDARD REPORT DELIVERY ( )
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) (X)
DATE DUE 7DAYTAT
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, ...)	LL PAHs	AL	As	Fe	Pb						REMARKS
								PRESERVATIVE										
								NUMBER OF CONTAINERS SUBMITTED										
10/28/14	1045	CV0971NN-CS18"	C		S			X	X	X	X	X						
10/28/14	1100	CV0971NN-CS24"	C		S			X	X	X	X	X						
10/28/14	1120	CV0971AP-GS6"	G		S			X	X	X	X	X						
10/28/14	1135	CV0971AP-GS12"	G		S			X	X	X	X	X						
10/28/14	1150	CV0971AP-GS18"	G		S			X	X	X	X	X						
10/28/14	1205	CV0971AP-GS24"	G		S			X	X	X	X	X						
10/28/14	1250	CV0971AO-GS6"	G		S			X	X	X	X	X						
10/28/14	1300	CV0971AO-GS12"	G		S			X	X	X	X	X						
10/28/14	1310	CV0971AO-CS18"	G		S			X	X	X	X	X						
10/28/14	1320	CV0971AO-GS24"	G		S			X	X	X	X	X						
10/28/14	1345	CV0971SS-CS6"	C		S			X	X	X	X	X						
10/28/14	1400	CV0971SS-CS12"	C		S			X	X	X	X	X						

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	10/30/14	1600						
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]	10/31/14	0934	YES ( ) NO ( )		680-106803	

TAL8240-680 (1008)

Serial Number 87250

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE 3 OF 5
35th AVE INVESTIGATION	2014078-1006	AL	
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.	
CLIENT (SITE) PM: Russell Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX	
CLIENT NAME: OTIE	CLIENT E-MAIL		
CLIENT ADDRESS: 1220 KENNESTONE CIRCLE, MARIETTA, GA 30066			
COMPANY CONTRACTING THIS WORK (if applicable)			

STANDARD REPORT DELIVERY ( )
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) (X)
DATE DUE 1 DAY 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, ...)	LL PAHs	AL	As	Fe	Pb						REMARKS
								PRESERVATIVE										
								NUMBER OF CONTAINERS SUBMITTED										
10/28/14	1415	CV09715S-CS18"	C		S			X	X	X	X	X						MS/MSD
10/28/14	1430	CV09715S-CS24"	C		S			X	X	X	X	X						
10/28/14	1440	CV0971TT-CS6"	C		S			X	X	X	X	X						
10/28/14	1455	CV0971TT-CS12"	C		S			X	X	X	X	X						
10/28/14	1510	CV0971TT-CS18"	C		S			X	X	X	X	X						
10/28/14	1525	CV0971TT-CS24"	C		S			X	X	X	X	X						MS/MSD
10/29/14	1115	CV09710-CS6"	C		S			X	X	X	X	X						
10/29/14	1130	CV09710-CS12"	C		S			X	X	X	X	X						
10/29/14	1145	CV09710-CS18"	C		S			X	X	X	X	X						
10/29/14	1200	CV09710-CS24"	C		S			X	X	X	X	X						
10/29/14	1150	CV09710-CSD18"	C		S			X	X	X	X	X						
10/29/14	1410	CV0971P-CS6"	C		S			X	X	X	X	X						

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	10/30/14	1600						
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]	10/31/14	0934	YES ( ) NO ( )		680-106803	

TAL8240-680 (1008)

Serial Number 87252

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE 4 OF 5
35TH AVE INVESTIGATION	2014078-1006	AL	
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.	
CLIENT (SITE) PM: RUSSELL HENDERSON	CLIENT PHONE: 678-355-5550	CLIENT FAX	
CLIENT NAME: OTIE	CLIENT E-MAIL: RHENDERSON@OTIE.COM		
CLIENT ADDRESS: 1220 KENNESTONE CIRCLE, MARIETTA, GA 30066			
COMPANY CONTRACTING THIS WORK (if applicable)			

STANDARD REPORT DELIVERY ◯
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) X
DATE DUE 7DAY 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, ...)	LLPAHs	AL	AS	Fe	Pb						REMARKS
								PRESERVATIVE										
								NUMBER OF CONTAINERS SUBMITTED										
10/29/14	1420	CV0971P-CS12"	C		S			X	X	X	X	X						
10/29/14	1515	CV0971P-CS18"	C		S			X	X	X	X	X						
10/29/14	1530	CV0971P-CS24"	C		S			X	X	X	X	X						
10/29/14	1435	CV0971AI-GS6"	G		S			X	X	X	X	X						
10/29/14	1445	CV0971AI-GS12"	G		S			X	X	X	X	X						
10/29/14	1455	CV0971AI-GS18"	G		S			X	X	X	X	X						
10/29/14	1500	CV0971AI-GS24"	G		S			X	X	X	X	X						
10/29/14	1630	CV0971K-CS6"	C		S			X	X	X	X	X						
10/29/14	1635	CV0971K-CS06"	C		S			X	X	X	X	X						
10/29/14	1645	CV0971K-CS12"	C		S			X	X	X	X	X						
10/29/14	1700	CV0971K-CS18"	C		S			X	X	X	X	X						
10/29/14	1715	CV0971K-CS24"	C		S			X	X	X	X	X						

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	10/30/14	1600						
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]	10/31/14	0934	YES ◯ NO ◯		680-106803	

TAL8240-680 (1008)

Serial Number 87253

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

◯ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE 5 OF 5
35TH AVE INVESTIGATION	2014078-1006	AL	
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.	
CLIENT (SITE) PM: RUSSELL HENDERSON	CLIENT PHONE: 678-355-5550	CLIENT FAX	
CLIENT NAME: OTIE	CLIENT E-MAIL		
CLIENT ADDRESS: 1220 KENNESTONE CIRCLE, MARIETTA, GA 30066			
COMPANY CONTRACTING THIS WORK (if applicable)			

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE 7DAY TAT

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, ...)	LL PAHs	AL	AS	Fe	Pb						REMARKS
								PRESERVATIVE										
								NUMBER OF CONTAINERS SUBMITTED										
10/30/14	0930	FM0161AVa-CS0-4"	C		S			X	X	X	X	X						
10/30/14	0945	FM0161AVb-CS0-4"	C		S			X	X	X	X	X						
10/30/14	1020	CV0971E-CS6"	C		S			X	X	X	X	X						
10/30/14	1035	CV0971E-CS12"	C		S			X	X	X	X	X						
10/30/14	1040	CV0971E-CSD12"	C		S			X	X	X	X	X						
10/30/14	1050	CV0971E-CS18"	C		S			X	X	X	X	X						
10/30/14	1105	CV0971E-CS24"	C		S			X	X	X	X	X						
10/30/14	1300	CV0971A-CS6"	C		S			X	X	X	X	X						
10/30/14	1315	CV0971A-CS12"	C		S			X	X	X	X	X						
10/30/14	1330	CV0971A-CS18"	C		S			X	X	X	X	X						
10/30/14	1335	CV0971A-CSD18"	C		S			X	X	X	X	X						
10/30/14	1400	CV0971A-CS24"	C		S			X	X	X	X	X						

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	10/30/14	1600						
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
	10/31/14	0934	YES ◯ NO ◯		680-106803	

TAL 8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106803-1
SDG Number: 680-106803-01

Login Number: 106803
List Number: 1
Creator: Conner, Keaton

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?	True	
There are no discrepancies between the containers received and the COC.	False	RECEIVED EXTRA VOLUME -55 -- ASSIGNED AS ANOTHER MS/MSD
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: 680-106803-1
TestAmerica Sample Delivery Group: 680-106803-01
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:
11/11/2014 9:22:44 AM

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: 680-106803-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-106803-1

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.

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

RECEIPT

The samples were received on 10/31/2014 9:34 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.6º C, 4.2º C and 4.4º C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH

Samples CV0971VV-CS6" (680-106803-1), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24" (680-106803-4), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971JJ-CS24" (680-106803-9), CV0971NN-CS6" (680-106803-10), CV0971NN-CS12" (680-106803-11), CV0971NN-CSD12" (680-106803-12), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971AP-GS6" (680-106803-15), CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AD-GS6" (680-106803-19) and CV0971AD-GS12" (680-106803-20) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D.

Method(s) 8270D_LL_PAH: The following sample(s) was diluted due to the nature of the sample matrix: CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AP-GS6" (680-106803-15), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971NN-CS12" (680-106803-11), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971NN-CS6" (680-106803-10), CV0971NN-CSD12" (680-106803-12), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24" (680-106803-4), CV0971VV-CS6" (680-106803-1), CV0971VV-CS12" (680-106803-2 MS), CV0971VV-CS12" (680-106803-2 MSD). 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: Analyst accidentally double spiked the following samples with internal standard. Data has been corrected and high recovery flags have been removed. Data has been qualified and reported: (LCS 680-356398/22-A), (MB 680-356398/21-A), CV0971AD-GS12" (680-106803-20), CV0971AD-GS6" (680-106803-19), CV0971JJ-CS24" (680-106803-9), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6).

Method(s) 8270D_LL_PAH: Manual integration was performed on the following sample(s): CV0971AD-GS12" (680-106803-20), CV0971AD-GS6" (680-106803-19), CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AP-GS6" (680-106803-15), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971JJ-CS24" (680-106803-9), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6), CV0971NN-CS12" (680-106803-11), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971NN-CS6" (680-106803-10), CV0971NN-CSD12" (680-106803-12), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24" (680-106803-4), CV0971VV-CS6" (680-106803-1).

Method(s) 8270D_LL_PAH: The continuing calibration verification (CCV) analyzed in batch 356621 was outside the method criteria for the following analyte(s): o-terphenyl and Pyrene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Job ID: 680-106803-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

METALS (ICP)

Samples CV0971VV-CS6" (680-106803-1), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24" (680-106803-4), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971JJ-CS24" (680-106803-9), CV0971NN-CS6" (680-106803-10), CV0971NN-CS12" (680-106803-11), CV0971NN-CSD12" (680-106803-12), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971AP-GS6" (680-106803-15), CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AD-GS6" (680-106803-19) and CV0971AD-GS12" (680-106803-20) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C.

One or more metals analytes are outside QC precision and accuracy criteria for the MS and MSD of sample CV0971VV-CS12" (680-106803-2) in batch 680-357015. Refer to the QC report for details.

PERCENT SOLIDS/MOISTURE

Samples CV0971VV-CS6" (680-106803-1), CV0971VV-CS12" (680-106803-2), CV0971VV-CS18" (680-106803-3), CV0971VV-CS24" (680-106803-4), CV0971JJ-CS6" (680-106803-5), CV0971JJ-CSD6" (680-106803-6), CV0971JJ-CS12" (680-106803-7), CV0971JJ-CS18" (680-106803-8), CV0971JJ-CS24" (680-106803-9), CV0971NN-CS6" (680-106803-10), CV0971NN-CS12" (680-106803-11), CV0971NN-CSD12" (680-106803-12), CV0971NN-CS18" (680-106803-13), CV0971NN-CS24" (680-106803-14), CV0971AP-GS6" (680-106803-15), CV0971AP-GS12" (680-106803-16), CV0971AP-GS18" (680-106803-17), CV0971AP-GS24" (680-106803-18), CV0971AD-GS6" (680-106803-19) and CV0971AD-GS12" (680-106803-20) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP.

Sample Summary

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-106803-1	CV0971VV-CS6"	Solid	10/27/14 14:45	10/31/14 09:34
680-106803-2	CV0971VV-CS12"	Solid	10/27/14 15:00	10/31/14 09:34
680-106803-3	CV0971VV-CS18"	Solid	10/27/14 15:15	10/31/14 09:34
680-106803-4	CV0971VV-CS24"	Solid	10/27/14 15:30	10/31/14 09:34
680-106803-5	CV0971JJ-CS6"	Solid	10/28/14 08:40	10/31/14 09:34
680-106803-6	CV0971JJ-CSD6"	Solid	10/28/14 08:45	10/31/14 09:34
680-106803-7	CV0971JJ-CS12"	Solid	10/28/14 08:55	10/31/14 09:34
680-106803-8	CV0971JJ-CS18"	Solid	10/28/14 09:10	10/31/14 09:34
680-106803-9	CV0971JJ-CS24"	Solid	10/28/14 09:25	10/31/14 09:34
680-106803-10	CV0971NN-CS6"	Solid	10/28/14 10:15	10/31/14 09:34
680-106803-11	CV0971NN-CS12"	Solid	10/28/14 10:30	10/31/14 09:34
680-106803-12	CV0971NN-CSD12"	Solid	10/28/14 10:35	10/31/14 09:34
680-106803-13	CV0971NN-CS18"	Solid	10/28/14 10:45	10/31/14 09:34
680-106803-14	CV0971NN-CS24"	Solid	10/28/14 11:00	10/31/14 09:34
680-106803-15	CV0971AP-GS6"	Solid	10/28/14 11:20	10/31/14 09:34
680-106803-16	CV0971AP-GS12"	Solid	10/28/14 11:35	10/31/14 09:34
680-106803-17	CV0971AP-GS18"	Solid	10/28/14 11:50	10/31/14 09:34
680-106803-18	CV0971AP-GS24"	Solid	10/28/14 12:05	10/31/14 09:34
680-106803-19	CV0971AD-GS6"	Solid	10/28/14 12:50	10/31/14 09:34
680-106803-20	CV0971AD-GS12"	Solid	10/28/14 13:00	10/31/14 09:34

Method Summary

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

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.

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: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971VV-CS6"

Lab Sample ID: 680-106803-1

Date Collected: 10/27/14 14:45
Date Received: 10/31/14 09:34

Matrix: Solid
Percent Solids: 86.4

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10
Acenaphthylene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10
Anthracene	**43**	**J**	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10
Benzo[a]anthracene	**310**		77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10
Benzo[a]pyrene	**360**		77	14	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10
Benzo[b]fluoranthene	**540**		77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10
Benzo[g,h,i]perylene	**170**		77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10
Benzo[k]fluoranthene	**180**		77	23	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10
Chrysene	**390**		77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10
Dibenz(a,h)anthracene	**50**	**J**	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10
Fluoranthene	**540**		77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10
Fluorene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10
Indeno[1,2,3-cd]pyrene	**160**		77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10
1-Methylnaphthalene	**39**	**J**	77	36	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10
2-Methylnaphthalene	**40**	**J**	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10
Naphthalene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10
Phenanthrene	**260**		77	28	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10
Pyrene	**510**		77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 13:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*10/31/14 17:08*	*11/03/14 13:46*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17000**		22	11	mg/Kg	☼	11/03/14 09:13	11/05/14 01:17	1
Arsenic	**34**		2.2	0.64	mg/Kg	☼	11/03/14 09:13	11/05/14 01:17	1
Iron	**39000**		22	7.6	mg/Kg	☼	11/03/14 09:13	11/05/14 01:17	1
Lead	**190**		1.1	0.57	mg/Kg	☼	11/03/14 09:13	11/05/14 01:17	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971VV-CS12"

Lab Sample ID: 680-106803-2
Date Collected: 10/27/14 15:00
Matrix: Solid
Date Received: 10/31/14 09:34
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	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10
Acenaphthylene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10
Anthracene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10
Benzo[a]anthracene	**110**		78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10
Benzo[a]pyrene	**120**		78	14	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10
Benzo[b]fluoranthene	**190**		78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10
Benzo[g,h,i]perylene	**75**	**J**	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10
Benzo[k]fluoranthene	**67**	**J**	78	23	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10
Chrysene	**150**		78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10
Dibenz(a,h)anthracene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10
Fluoranthene	**210**		78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10
Fluorene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10
Indeno[1,2,3-cd]pyrene	**64**	**J**	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10
1-Methylnaphthalene	**38**	**J**	78	36	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10
2-Methylnaphthalene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10
Naphthalene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10
Phenanthrene	**130**		78	28	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10
Pyrene	**170**		78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 13:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*10/31/14 17:08*	*11/03/14 13:23*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		23	11	mg/Kg	☼	11/03/14 09:13	11/05/14 00:56	1
Arsenic	**37**		2.3	0.66	mg/Kg	☼	11/03/14 09:13	11/05/14 00:56	1
Iron	**46000**		23	7.9	mg/Kg	☼	11/03/14 09:13	11/05/14 00:56	1
Lead	**110**		1.1	0.60	mg/Kg	☼	11/03/14 09:13	11/05/14 00:56	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971VV-CS18"

Lab Sample ID: 680-106803-3

Date Collected: 10/27/14 15:15
Date Received: 10/31/14 09:34

Matrix: Solid
Percent Solids: 85.5

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10
Acenaphthylene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10
Anthracene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10
Benzo[a]anthracene	**150**		78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10
Benzo[a]pyrene	**140**		78	14	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10
Benzo[b]fluoranthene	**240**		78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10
Benzo[g,h,i]perylene	**78**		78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10
Benzo[k]fluoranthene	**78**		78	23	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10
Chrysene	**210**		78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10
Dibenz(a,h)anthracene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10
Fluoranthene	**250**		78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10
Fluorene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10
Indeno[1,2,3-cd]pyrene	**65**	**J**	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10
1-Methylnaphthalene	**46**	**J**	78	36	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10
2-Methylnaphthalene	**45**	**J**	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10
Naphthalene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10
Phenanthrene	**170**		78	28	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10
Pyrene	**220**		78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 14:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*10/31/14 17:08*	*11/03/14 14:09*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		23	11	mg/Kg	☼	11/03/14 09:13	11/05/14 01:30	1
Arsenic	**33**		2.3	0.67	mg/Kg	☼	11/03/14 09:13	11/05/14 01:30	1
Iron	**38000**		23	8.0	mg/Kg	☼	11/03/14 09:13	11/05/14 01:30	1
Lead	**130**		1.1	0.60	mg/Kg	☼	11/03/14 09:13	11/05/14 01:30	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971VV-CS24"

Lab Sample ID: 680-106803-4

Date Collected: 10/27/14 15:30
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 82.5

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	81	U	81	40	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10
Acenaphthylene	81	U	81	40	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10
Anthracene	81	U	81	40	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10
Benzo[a]anthracene	**210**		81	40	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10
Benzo[a]pyrene	**230**		81	15	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10
Benzo[b]fluoranthene	**410**		81	40	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10
Benzo[g,h,i]perylene	**110**		81	40	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10
Benzo[k]fluoranthene	**150**		81	24	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10
Chrysene	**310**		81	40	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10
Dibenz(a,h)anthracene	**44**	**J**	81	40	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10
Fluoranthene	**320**		81	40	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10
Fluorene	81	U	81	40	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10
Indeno[1,2,3-cd]pyrene	**100**		81	40	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10
1-Methylnaphthalene	81	U	81	38	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10
2-Methylnaphthalene	81	U	81	40	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10
Naphthalene	81	U	81	40	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10
Phenanthrene	**120**		81	29	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10
Pyrene	**290**		81	40	ug/Kg	☼	10/31/14 17:08	11/03/14 14:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*10/31/14 17:08*	*11/03/14 14:31*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		24	12	mg/Kg	☼	11/03/14 09:13	11/05/14 01:34	1
Arsenic	**25**		2.4	0.71	mg/Kg	☼	11/03/14 09:13	11/05/14 01:34	1
Iron	**46000**		24	8.4	mg/Kg	☼	11/03/14 09:13	11/05/14 01:34	1
Lead	**96**		1.2	0.64	mg/Kg	☼	11/03/14 09:13	11/05/14 01:34	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971JJ-CS6"

Lab Sample ID: 680-106803-5

Date Collected: 10/28/14 08:40
Date Received: 10/31/14 09:34

Matrix: Solid
Percent Solids: 89.0

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	7.5	U	7.5	3.7	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1
Acenaphthylene	7.5	U	7.5	3.7	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1
Anthracene	**4.2**	**J**	7.5	3.7	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1
Benzo[a]anthracene	**35**		7.5	3.7	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1
Benzo[a]pyrene	**38**		7.5	1.3	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1
Benzo[b]fluoranthene	**64**		7.5	3.7	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1
Benzo[g,h,i]perylene	**16**		7.5	3.7	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1
Benzo[k]fluoranthene	**27**		7.5	2.2	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1
Chrysene	**40**		7.5	3.7	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1
Dibenz(a,h)anthracene	**5.2**	**J**	7.5	3.7	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1
Fluoranthene	**53**		7.5	3.7	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1
Fluorene	7.5	U	7.5	3.7	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1
Indeno[1,2,3-cd]pyrene	**13**		7.5	3.7	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1
1-Methylnaphthalene	**6.4**	**J**	7.5	3.5	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1
2-Methylnaphthalene	**7.7**		7.5	3.7	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1
Naphthalene	**5.9**	**J**	7.5	3.7	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1
Phenanthrene	**29**		7.5	2.7	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1
Pyrene	**49**		7.5	3.7	ug/Kg	☼	10/31/14 17:08	11/03/14 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*36 - 131*	*10/31/14 17:08*	*11/03/14 14:54*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		21	11	mg/Kg	☼	11/03/14 09:13	11/05/14 01:38	1
Arsenic	**31**		2.1	0.63	mg/Kg	☼	11/03/14 09:13	11/05/14 01:38	1
Iron	**49000**		21	7.5	mg/Kg	☼	11/03/14 09:13	11/05/14 01:38	1
Lead	**47**		1.1	0.57	mg/Kg	☼	11/03/14 09:13	11/05/14 01:38	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971JJ-CSD6"

Lab Sample ID: 680-106803-6

Date Collected: 10/28/14 08:45
Date Received: 10/31/14 09:34

Matrix: Solid
Percent Solids: 85.3

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	7.8	U	7.8	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1
Acenaphthylene	7.8	U	7.8	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1
Anthracene	**6.5**	**J**	7.8	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1
Benzo[a]anthracene	**39**		7.8	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1
Benzo[a]pyrene	**43**		7.8	1.4	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1
Benzo[b]fluoranthene	**68**		7.8	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1
Benzo[g,h,i]perylene	**19**		7.8	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1
Benzo[k]fluoranthene	**27**		7.8	2.3	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1
Chrysene	**43**		7.8	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1
Dibenz(a,h)anthracene	**4.8**	**J**	7.8	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1
Fluoranthene	**61**		7.8	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1
Fluorene	7.8	U	7.8	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1
Indeno[1,2,3-cd]pyrene	**15**		7.8	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1
1-Methylnaphthalene	**6.0**	**J**	7.8	3.6	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1
2-Methylnaphthalene	**8.4**		7.8	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1
Naphthalene	**5.1**	**J**	7.8	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1
Phenanthrene	**35**		7.8	2.8	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1
Pyrene	**53**		7.8	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*36 - 131*	*10/31/14 17:08*	*11/03/14 15:17*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		21	11	mg/Kg	☼	11/03/14 09:13	11/05/14 01:43	1
Arsenic	**35**		2.1	0.63	mg/Kg	☼	11/03/14 09:13	11/05/14 01:43	1
Iron	**55000**		21	7.5	mg/Kg	☼	11/03/14 09:13	11/05/14 01:43	1
Lead	**45**		1.1	0.56	mg/Kg	☼	11/03/14 09:13	11/05/14 01:43	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971JJ-CS12"

Lab Sample ID: 680-106803-7

Date Collected: 10/28/14 08:55
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 87.2

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10
Acenaphthylene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10
Anthracene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10
Benzo[a]anthracene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10
Benzo[a]pyrene	**26**	**J**	77	14	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10
Benzo[b]fluoranthene	**42**	**J**	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10
Benzo[g,h,i]perylene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10
Benzo[k]fluoranthene	77	U	77	23	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10
Chrysene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10
Dibenz(a,h)anthracene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10
Fluoranthene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10
Fluorene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10
Indeno[1,2,3-cd]pyrene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10
1-Methylnaphthalene	77	U	77	36	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10
2-Methylnaphthalene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10
Naphthalene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10
Phenanthrene	77	U	77	28	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10
Pyrene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 15:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*10/31/14 17:08*	*11/03/14 15:40*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		20	10	mg/Kg	☼	11/03/14 09:13	11/05/14 01:47	1
Arsenic	**26**		2.0	0.60	mg/Kg	☼	11/03/14 09:13	11/05/14 01:47	1
Iron	**41000**		20	7.1	mg/Kg	☼	11/03/14 09:13	11/05/14 01:47	1
Lead	**40**		1.0	0.54	mg/Kg	☼	11/03/14 09:13	11/05/14 01:47	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971JJ-CS18"

Lab Sample ID: 680-106803-8

Date Collected: 10/28/14 09:10
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 86.9

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10
Acenaphthylene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10
Anthracene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10
Benzo[a]anthracene	**60**	**J**	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10
Benzo[a]pyrene	**66**	**J**	77	14	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10
Benzo[b]fluoranthene	**110**		77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10
Benzo[g,h,i]perylene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10
Benzo[k]fluoranthene	**41**	**J**	77	23	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10
Chrysene	**88**		77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10
Dibenz(a,h)anthracene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10
Fluoranthene	**98**		77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10
Fluorene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10
Indeno[1,2,3-cd]pyrene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10
1-Methylnaphthalene	77	U	77	36	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10
2-Methylnaphthalene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10
Naphthalene	77	U	77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10
Phenanthrene	**63**	**J**	77	28	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10
Pyrene	**90**		77	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*10/31/14 17:08*	*11/03/14 16:03*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		20	9.8	mg/Kg	☼	11/03/14 09:13	11/05/14 01:51	1
Arsenic	**31**		2.0	0.58	mg/Kg	☼	11/03/14 09:13	11/05/14 01:51	1
Iron	**35000**		20	6.9	mg/Kg	☼	11/03/14 09:13	11/05/14 01:51	1
Lead	**54**		0.98	0.52	mg/Kg	☼	11/03/14 09:13	11/05/14 01:51	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971JJ-CS24"

Lab Sample ID: 680-106803-9

Date Collected: 10/28/14 09:25
Date Received: 10/31/14 09:34

Matrix: Solid
Percent Solids: 84.5

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	7.9	U	7.9	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1
Acenaphthylene	7.9	U	7.9	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1
Anthracene	7.9	U	7.9	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1
Benzo[a]anthracene	**15**		7.9	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1
Benzo[a]pyrene	**17**		7.9	1.4	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1
Benzo[b]fluoranthene	**31**		7.9	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1
Benzo[g,h,i]perylene	**8.1**		7.9	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1
Benzo[k]fluoranthene	**9.2**		7.9	2.4	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1
Chrysene	**23**		7.9	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1
Dibenz(a,h)anthracene	7.9	U	7.9	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1
Fluoranthene	**21**		7.9	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1
Fluorene	7.9	U	7.9	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1
Indeno[1,2,3-cd]pyrene	**5.1**	**J**	7.9	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1
1-Methylnaphthalene	**5.1**	**J**	7.9	3.7	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1
2-Methylnaphthalene	**7.0**	**J**	7.9	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1
Naphthalene	7.9	U	7.9	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1
Phenanthrene	**13**		7.9	2.8	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1
Pyrene	**20**		7.9	3.9	ug/Kg	☼	10/31/14 17:08	11/03/14 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*36 - 131*	*10/31/14 17:08*	*11/03/14 16:25*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		22	11	mg/Kg	☼	11/03/14 09:13	11/05/14 01:55	1
Arsenic	**23**		2.2	0.66	mg/Kg	☼	11/03/14 09:13	11/05/14 01:55	1
Iron	**33000**		22	7.8	mg/Kg	☼	11/03/14 09:13	11/05/14 01:55	1
Lead	**44**		1.1	0.59	mg/Kg	☼	11/03/14 09:13	11/05/14 01:55	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971NN-CS6"

Lab Sample ID: 680-106803-10

Date Collected: 10/28/14 10:15
Date Received: 10/31/14 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	78	U	78	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10
Acenaphthylene	78	U	78	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10
Anthracene	78	U	78	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10
Benzo[a]anthracene	**190**		78	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10
Benzo[a]pyrene	**230**		78	14	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10
Benzo[b]fluoranthene	**390**		78	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10
Benzo[g,h,i]perylene	**100**		78	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10
Benzo[k]fluoranthene	**130**		78	23	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10
Chrysene	**270**		78	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10
Dibenz(a,h)anthracene	78	U	78	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10
Fluoranthene	**320**		78	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10
Fluorene	78	U	78	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10
Indeno[1,2,3-cd]pyrene	**70**	**J**	78	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10
1-Methylnaphthalene	**91**		78	36	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10
2-Methylnaphthalene	**110**		78	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10
Naphthalene	**80**		78	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10
Phenanthrene	**190**		78	28	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10
Pyrene	**300**		78	38	ug/Kg	☼	10/31/14 17:08	11/03/14 16:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*10/31/14 17:08*	*11/03/14 16:48*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		21	10	mg/Kg	☼	11/03/14 09:13	11/05/14 02:00	1
Arsenic	**26**		2.1	0.61	mg/Kg	☼	11/03/14 09:13	11/05/14 02:00	1
Iron	**40000**		21	7.2	mg/Kg	☼	11/03/14 09:13	11/05/14 02:00	1
Lead	**180**		1.0	0.55	mg/Kg	☼	11/03/14 09:13	11/05/14 02:00	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971NN-CS12"

Lab Sample ID: 680-106803-11

Date Collected: 10/28/14 10:30
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 85.1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10
Acenaphthylene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10
Anthracene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10
Benzo[a]anthracene	**100**		79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10
Benzo[a]pyrene	**110**		79	14	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10
Benzo[b]fluoranthene	**180**		79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10
Benzo[g,h,i]perylene	**46**	**J**	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10
Benzo[k]fluoranthene	**75**	**J**	79	23	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10
Chrysene	**150**		79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10
Dibenz(a,h)anthracene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10
Fluoranthene	**170**		79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10
Fluorene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10
Indeno[1,2,3-cd]pyrene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10
1-Methylnaphthalene	79	U	79	36	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10
2-Methylnaphthalene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10
Naphthalene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10
Phenanthrene	**110**		79	28	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10
Pyrene	**160**		79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*10/31/14 17:08*	*11/03/14 17:11*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		22	11	mg/Kg	☼	11/03/14 09:13	11/05/14 02:04	1
Arsenic	**20**		2.2	0.64	mg/Kg	☼	11/03/14 09:13	11/05/14 02:04	1
Iron	**48000**		22	7.5	mg/Kg	☼	11/03/14 09:13	11/05/14 02:04	1
Lead	**120**		1.1	0.57	mg/Kg	☼	11/03/14 09:13	11/05/14 02:04	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971NN-CSD12"

Lab Sample ID: 680-106803-12

Date Collected: 10/28/14 10:35
Date Received: 10/31/14 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	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10
Acenaphthylene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10
Anthracene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10
Benzo[a]anthracene	**89**		78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10
Benzo[a]pyrene	**100**		78	14	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10
Benzo[b]fluoranthene	**180**		78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10
Benzo[g,h,i]perylene	**45**	**J**	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10
Benzo[k]fluoranthene	**58**	**J**	78	23	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10
Chrysene	**130**		78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10
Dibenz(a,h)anthracene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10
Fluoranthene	**150**		78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10
Fluorene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10
Indeno[1,2,3-cd]pyrene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10
1-Methylnaphthalene	78	U	78	36	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10
2-Methylnaphthalene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10
Naphthalene	78	U	78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10
Phenanthrene	**83**		78	28	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10
Pyrene	**140**		78	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*10/31/14 17:08*	*11/03/14 17:34*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		22	11	mg/Kg	☼	11/03/14 09:13	11/05/14 02:08	1
Arsenic	**25**		2.2	0.65	mg/Kg	☼	11/03/14 09:13	11/05/14 02:08	1
Iron	**43000**		22	7.7	mg/Kg	☼	11/03/14 09:13	11/05/14 02:08	1
Lead	**220**		1.1	0.58	mg/Kg	☼	11/03/14 09:13	11/05/14 02:08	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971NN-CS18"

Lab Sample ID: 680-106803-13

Date Collected: 10/28/14 10:45
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 84.3

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10
Acenaphthylene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10
Anthracene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10
Benzo[a]anthracene	**43**	**J**	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10
Benzo[a]pyrene	**49**	**J**	79	14	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10
Benzo[b]fluoranthene	**71**	**J**	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10
Benzo[g,h,i]perylene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10
Benzo[k]fluoranthene	**29**	**J**	79	24	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10
Chrysene	**53**	**J**	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10
Dibenz(a,h)anthracene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10
Fluoranthene	**61**	**J**	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10
Fluorene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10
Indeno[1,2,3-cd]pyrene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10
1-Methylnaphthalene	79	U	79	37	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10
2-Methylnaphthalene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10
Naphthalene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10
Phenanthrene	**29**	**J**	79	28	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10
Pyrene	**59**	**J**	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 17:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*10/31/14 17:08*	*11/03/14 17:56*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**22000**		22	11	mg/Kg	☼	11/03/14 09:13	11/05/14 02:21	1
Arsenic	**13**		2.2	0.64	mg/Kg	☼	11/03/14 09:13	11/05/14 02:21	1
Iron	**39000**		22	7.6	mg/Kg	☼	11/03/14 09:13	11/05/14 02:21	1
Lead	**37**		1.1	0.58	mg/Kg	☼	11/03/14 09:13	11/05/14 02:21	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971NN-CS24"

Lab Sample ID: 680-106803-14

Date Collected: 10/28/14 11:00
Date Received: 10/31/14 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	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10
Acenaphthylene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10
Anthracene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10
Benzo[a]anthracene	**90**		79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10
Benzo[a]pyrene	**120**		79	14	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10
Benzo[b]fluoranthene	**180**		79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10
Benzo[g,h,i]perylene	**47**	**J**	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10
Benzo[k]fluoranthene	**88**		79	24	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10
Chrysene	**140**		79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10
Dibenz(a,h)anthracene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10
Fluoranthene	**200**		79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10
Fluorene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10
Indeno[1,2,3-cd]pyrene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10
1-Methylnaphthalene	79	U	79	36	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10
2-Methylnaphthalene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10
Naphthalene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10
Phenanthrene	**110**		79	28	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10
Pyrene	**190**		79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*10/31/14 17:08*	*11/03/14 18:19*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19000**		22	11	mg/Kg	☼	11/03/14 09:13	11/05/14 02:25	1
Arsenic	**20**		2.2	0.65	mg/Kg	☼	11/03/14 09:13	11/05/14 02:25	1
Iron	**45000**		22	7.7	mg/Kg	☼	11/03/14 09:13	11/05/14 02:25	1
Lead	**55**		1.1	0.58	mg/Kg	☼	11/03/14 09:13	11/05/14 02:25	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971AP-GS6"

Lab Sample ID: 680-106803-15

Date Collected: 10/28/14 11:20
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 84.2

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	80	U	80	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10
Acenaphthylene	80	U	80	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10
Anthracene	80	U	80	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10
Benzo[a]anthracene	**230**		80	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10
Benzo[a]pyrene	**230**		80	14	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10
Benzo[b]fluoranthene	**400**		80	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10
Benzo[g,h,i]perylene	**92**		80	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10
Benzo[k]fluoranthene	**170**		80	24	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10
Chrysene	**270**		80	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10
Dibenz(a,h)anthracene	80	U	80	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10
Fluoranthene	**400**		80	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10
Fluorene	80	U	80	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10
Indeno[1,2,3-cd]pyrene	**61**	**J**	80	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10
1-Methylnaphthalene	**55**	**J**	80	37	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10
2-Methylnaphthalene	**70**	**J**	80	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10
Naphthalene	**48**	**J**	80	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10
Phenanthrene	**240**		80	28	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10
Pyrene	**360**		80	39	ug/Kg	☼	10/31/14 17:08	11/03/14 18:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*10/31/14 17:08*	*11/03/14 18:42*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19000**		23	12	mg/Kg	☼	11/03/14 09:13	11/05/14 02:30	1
Arsenic	**32**		2.3	0.68	mg/Kg	☼	11/03/14 09:13	11/05/14 02:30	1
Iron	**52000**		23	8.1	mg/Kg	☼	11/03/14 09:13	11/05/14 02:30	1
Lead	**580**		1.2	0.61	mg/Kg	☼	11/03/14 09:13	11/05/14 02:30	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971AP-GS12"

Lab Sample ID: 680-106803-16

Date Collected: 10/28/14 11:35
Date Received: 10/31/14 09:34

Matrix: Solid
Percent Solids: 80.9

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	83	U	83	41	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10
Acenaphthylene	83	U	83	41	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10
Anthracene	**110**		83	41	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10
Benzo[a]anthracene	**470**		83	41	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10
Benzo[a]pyrene	**470**		83	15	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10
Benzo[b]fluoranthene	**830**		83	41	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10
Benzo[g,h,i]perylene	**190**		83	41	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10
Benzo[k]fluoranthene	**290**		83	25	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10
Chrysene	**530**		83	41	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10
Dibenz(a,h)anthracene	**68**	**J**	83	41	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10
Fluoranthene	**870**		83	41	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10
Fluorene	**47**	**J**	83	41	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10
Indeno[1,2,3-cd]pyrene	**110**		83	41	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10
1-Methylnaphthalene	**110**		83	38	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10
2-Methylnaphthalene	**120**		83	41	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10
Naphthalene	**120**		83	41	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10
Phenanthrene	**590**		83	30	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10
Pyrene	**690**		83	41	ug/Kg	☼	10/31/14 17:08	11/03/14 19:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*10/31/14 17:08*	*11/03/14 19:05*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17000**		24	12	mg/Kg	☼	11/03/14 09:13	11/05/14 02:34	1
Arsenic	**36**		2.4	0.70	mg/Kg	☼	11/03/14 09:13	11/05/14 02:34	1
Iron	**44000**		24	8.3	mg/Kg	☼	11/03/14 09:13	11/05/14 02:34	1
Lead	**380**		1.2	0.63	mg/Kg	☼	11/03/14 09:13	11/05/14 02:34	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971AP-GS18"

Lab Sample ID: 680-106803-17

Date Collected: 10/28/14 11:50
Date Received: 10/31/14 09:34

Matrix: Solid
Percent Solids: 85.1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10
Acenaphthylene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10
Anthracene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10
Benzo[a]anthracene	**71**	**J**	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10
Benzo[a]pyrene	**87**		79	14	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10
Benzo[b]fluoranthene	**130**		79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10
Benzo[g,h,i]perylene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10
Benzo[k]fluoranthene	**54**	**J**	79	23	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10
Chrysene	**90**		79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10
Dibenz(a,h)anthracene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10
Fluoranthene	**120**		79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10
Fluorene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10
Indeno[1,2,3-cd]pyrene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10
1-Methylnaphthalene	79	U	79	36	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10
2-Methylnaphthalene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10
Naphthalene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10
Phenanthrene	**41**	**J**	79	28	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10
Pyrene	**100**		79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:27	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*10/31/14 17:08*	*11/03/14 19:27*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		21	10	mg/Kg	☼	11/03/14 09:13	11/05/14 02:38	1
Arsenic	**15**		2.1	0.61	mg/Kg	☼	11/03/14 09:13	11/05/14 02:38	1
Iron	**31000**		21	7.3	mg/Kg	☼	11/03/14 09:13	11/05/14 02:38	1
Lead	**48**		1.0	0.55	mg/Kg	☼	11/03/14 09:13	11/05/14 02:38	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971AP-GS24"

Lab Sample ID: 680-106803-18

Date Collected: 10/28/14 12:05
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 84.4

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10
Acenaphthylene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10
Anthracene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10
Benzo[a]anthracene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10
Benzo[a]pyrene	**24**	**J**	79	14	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10
Benzo[b]fluoranthene	**39**	**J**	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10
Benzo[g,h,i]perylene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10
Benzo[k]fluoranthene	79	U	79	24	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10
Chrysene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10
Dibenz(a,h)anthracene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10
Fluoranthene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10
Fluorene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10
Indeno[1,2,3-cd]pyrene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10
1-Methylnaphthalene	79	U	79	37	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10
2-Methylnaphthalene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10
Naphthalene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10
Phenanthrene	79	U	79	28	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10
Pyrene	79	U	79	39	ug/Kg	☼	10/31/14 17:08	11/03/14 19:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*10/31/14 17:08*	*11/03/14 19:50*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17000**		20	10	mg/Kg	☼	11/03/14 09:13	11/05/14 02:42	1
Arsenic	**24**		2.0	0.59	mg/Kg	☼	11/03/14 09:13	11/05/14 02:42	1
Iron	**60000**		20	7.0	mg/Kg	☼	11/03/14 09:13	11/05/14 02:42	1
Lead	**53**		1.0	0.53	mg/Kg	☼	11/03/14 09:13	11/05/14 02:42	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971AD-GS6"

Lab Sample ID: 680-106803-19

Date Collected: 10/28/14 12:50
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 81.5

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	8.2	U	8.2	4.0	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1
Acenaphthylene	8.2	U	8.2	4.0	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1
Anthracene	8.2	U	8.2	4.0	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1
Benzo[a]anthracene	**6.3**	**J**	8.2	4.0	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1
Benzo[a]pyrene	**6.4**	**J**	8.2	1.5	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1
Benzo[b]fluoranthene	**12**		8.2	4.0	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1
Benzo[g,h,i]perylene	8.2	U	8.2	4.0	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1
Benzo[k]fluoranthene	**4.3**	**J**	8.2	2.5	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1
Chrysene	**8.6**		8.2	4.0	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1
Dibenz(a,h)anthracene	8.2	U	8.2	4.0	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1
Fluoranthene	**7.9**	**J**	8.2	4.0	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1
Fluorene	8.2	U	8.2	4.0	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1
Indeno[1,2,3-cd]pyrene	8.2	U	8.2	4.0	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1
1-Methylnaphthalene	8.2	U	8.2	3.8	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1
2-Methylnaphthalene	8.2	U	8.2	4.0	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1
Naphthalene	8.2	U	8.2	4.0	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1
Phenanthrene	**7.0**	**J**	8.2	2.9	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1
Pyrene	**7.7**	**J**	8.2	4.0	ug/Kg	☼	10/31/14 17:08	11/03/14 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*36 - 131*	*10/31/14 17:08*	*11/03/14 20:13*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**18000**		24	12	mg/Kg	☼	11/03/14 09:13	11/05/14 02:47	1
Arsenic	**47**		2.4	0.72	mg/Kg	☼	11/03/14 09:13	11/05/14 02:47	1
Iron	**47000**		24	8.5	mg/Kg	☼	11/03/14 09:13	11/05/14 02:47	1
Lead	**43**		1.2	0.64	mg/Kg	☼	11/03/14 09:13	11/05/14 02:47	1

Client Sample Results

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971AD-GS12"

Lab Sample ID: 680-106803-20
Date Collected: 10/28/14 13:00
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 81.2

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	8.2	U	8.2	4.1	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1
Acenaphthylene	8.2	U	8.2	4.1	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1
Anthracene	8.2	U	8.2	4.1	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1
Benzo[a]anthracene	**8.2**		8.2	4.1	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1
Benzo[a]pyrene	**8.1**	**J**	8.2	1.5	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1
Benzo[b]fluoranthene	**13**		8.2	4.1	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1
Benzo[g,h,i]perylene	8.2	U	8.2	4.1	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1
Benzo[k]fluoranthene	**5.2**	**J**	8.2	2.5	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1
Chrysene	**9.6**		8.2	4.1	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1
Dibenz(a,h)anthracene	8.2	U	8.2	4.1	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1
Fluoranthene	**15**		8.2	4.1	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1
Fluorene	8.2	U	8.2	4.1	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1
Indeno[1,2,3-cd]pyrene	8.2	U	8.2	4.1	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1
1-Methylnaphthalene	8.2	U	8.2	3.8	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1
2-Methylnaphthalene	8.2	U	8.2	4.1	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1
Naphthalene	8.2	U	8.2	4.1	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1
Phenanthrene	**8.5**		8.2	3.0	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1
Pyrene	**13**		8.2	4.1	ug/Kg	☼	10/31/14 17:08	11/03/14 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*36 - 131*	*10/31/14 17:08*	*11/03/14 20:36*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		22	11	mg/Kg	☼	11/03/14 09:13	11/05/14 02:51	1
Arsenic	**45**		2.2	0.65	mg/Kg	☼	11/03/14 09:13	11/05/14 02:51	1
Iron	**46000**		22	7.7	mg/Kg	☼	11/03/14 09:13	11/05/14 02:51	1
Lead	**32**		1.1	0.58	mg/Kg	☼	11/03/14 09:13	11/05/14 02:51	1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Lab Sample ID: MB 680-356398/21-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 356621 — **Prep Batch: 356398**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	6.7	U	6.7	3.3	ug/Kg		10/31/14 17:08	11/03/14 11:52	1
Acenaphthylene	6.7	U	6.7	3.3	ug/Kg		10/31/14 17:08	11/03/14 11:52	1
Anthracene	6.7	U	6.7	3.3	ug/Kg		10/31/14 17:08	11/03/14 11:52	1
Benzo[a]anthracene	6.7	U	6.7	3.3	ug/Kg		10/31/14 17:08	11/03/14 11:52	1
Benzo[a]pyrene	6.7	U	6.7	1.2	ug/Kg		10/31/14 17:08	11/03/14 11:52	1
Benzo[b]fluoranthene	6.7	U	6.7	3.3	ug/Kg		10/31/14 17:08	11/03/14 11:52	1
Benzo[g,h,i]perylene	6.7	U	6.7	3.3	ug/Kg		10/31/14 17:08	11/03/14 11:52	1
Benzo[k]fluoranthene	6.7	U	6.7	2.0	ug/Kg		10/31/14 17:08	11/03/14 11:52	1
Chrysene	6.7	U	6.7	3.3	ug/Kg		10/31/14 17:08	11/03/14 11:52	1
Dibenz(a,h)anthracene	6.7	U	6.7	3.3	ug/Kg		10/31/14 17:08	11/03/14 11:52	1
Fluoranthene	6.7	U	6.7	3.3	ug/Kg		10/31/14 17:08	11/03/14 11:52	1
Fluorene	6.7	U	6.7	3.3	ug/Kg		10/31/14 17:08	11/03/14 11:52	1
Indeno[1,2,3-cd]pyrene	6.7	U	6.7	3.3	ug/Kg		10/31/14 17:08	11/03/14 11:52	1
1-Methylnaphthalene	6.7	U	6.7	3.1	ug/Kg		10/31/14 17:08	11/03/14 11:52	1
2-Methylnaphthalene	6.7	U	6.7	3.3	ug/Kg		10/31/14 17:08	11/03/14 11:52	1
Naphthalene	6.7	U	6.7	3.3	ug/Kg		10/31/14 17:08	11/03/14 11:52	1
Phenanthrene	6.7	U	6.7	2.4	ug/Kg		10/31/14 17:08	11/03/14 11:52	1
Pyrene	6.7	U	6.7	3.3	ug/Kg		10/31/14 17:08	11/03/14 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*36 - 131*	*10/31/14 17:08*	*11/03/14 11:52*	*1*

Lab Sample ID: LCS 680-356398/22-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 356621 — **Prep Batch: 356398**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	333	210		ug/Kg		63	33 - 130
Acenaphthylene	333	206		ug/Kg		62	37 - 131
Anthracene	333	218		ug/Kg		66	42 - 146
Benzo[a]anthracene	333	226		ug/Kg		68	39 - 157
Benzo[a]pyrene	333	219		ug/Kg		66	41 - 158
Benzo[b]fluoranthene	333	223		ug/Kg		67	35 - 152
Benzo[g,h,i]perylene	333	191		ug/Kg		57	32 - 150
Benzo[k]fluoranthene	333	224		ug/Kg		67	38 - 148
Chrysene	333	217		ug/Kg		65	38 - 147
Dibenz(a,h)anthracene	333	209		ug/Kg		63	32 - 155
Fluoranthene	333	207		ug/Kg		62	36 - 147
Fluorene	333	232		ug/Kg		70	36 - 138
Indeno[1,2,3-cd]pyrene	333	189		ug/Kg		57	35 - 148
1-Methylnaphthalene	333	223		ug/Kg		67	36 - 130
2-Methylnaphthalene	333	216		ug/Kg		65	42 - 130
Naphthalene	333	204		ug/Kg		61	33 - 130
Phenanthrene	333	205		ug/Kg		61	40 - 135
Pyrene	333	206		ug/Kg		62	38 - 145

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Lab Sample ID: LCS 680-356398/22-A
Matrix: Solid
Analysis Batch: 356621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 356398

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*61*		*36 - 131*

Lab Sample ID: 680-106803-2 MS
Matrix: Solid
Analysis Batch: 356621

Client Sample ID: CV0971VV-CS12"
Prep Type: Total/NA
Prep Batch: 356398

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	78	U	390	184		ug/Kg	☼	47	33 - 130
Acenaphthylene	78	U	390	186		ug/Kg	☼	48	37 - 131
Anthracene	78	U	390	189		ug/Kg	☼	49	42 - 146
Benzo[a]anthracene	110		390	314		ug/Kg	☼	52	39 - 157
Benzo[a]pyrene	120		390	332		ug/Kg	☼	55	41 - 158
Benzo[b]fluoranthene	190		390	393		ug/Kg	☼	51	35 - 152
Benzo[g,h,i]perylene	75	J	390	255		ug/Kg	☼	46	32 - 150
Benzo[k]fluoranthene	67	J	390	295		ug/Kg	☼	58	38 - 148
Chrysene	150		390	361		ug/Kg	☼	53	38 - 147
Dibenz(a,h)anthracene	78	U	390	185		ug/Kg	☼	47	32 - 155
Fluoranthene	210		390	434		ug/Kg	☼	57	36 - 147
Fluorene	78	U	390	193		ug/Kg	☼	50	36 - 138
Indeno[1,2,3-cd]pyrene	64	J	390	237		ug/Kg	☼	44	35 - 148
1-Methylnaphthalene	38	J	390	212		ug/Kg	☼	45	36 - 130
2-Methylnaphthalene	78	U	390	207		ug/Kg	☼	53	42 - 130
Naphthalene	78	U	390	190		ug/Kg	☼	49	33 - 130
Phenanthrene	130		390	304		ug/Kg	☼	44	40 - 135
Pyrene	170		390	370		ug/Kg	☼	52	38 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*0*	*D*	*36 - 131*

Lab Sample ID: 680-106803-2 MSD
Matrix: Solid
Analysis Batch: 356621

Client Sample ID: CV0971VV-CS12"
Prep Type: Total/NA
Prep Batch: 356398

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	78	U	390	246		ug/Kg	☼	63	33 - 130	29	50
Acenaphthylene	78	U	390	237		ug/Kg	☼	61	37 - 131	24	50
Anthracene	78	U	390	259		ug/Kg	☼	66	42 - 146	31	50
Benzo[a]anthracene	110		390	403		ug/Kg	☼	75	39 - 157	25	50
Benzo[a]pyrene	120		390	406		ug/Kg	☼	73	41 - 158	20	50
Benzo[b]fluoranthene	190		390	468		ug/Kg	☼	70	35 - 152	17	50
Benzo[g,h,i]perylene	75	J	390	259		ug/Kg	☼	47	32 - 150	1	50
Benzo[k]fluoranthene	67	J	390	377		ug/Kg	☼	79	38 - 148	24	50
Chrysene	150		390	462		ug/Kg	☼	79	38 - 147	24	50
Dibenz(a,h)anthracene	78	U	390	225		ug/Kg	☼	58	32 - 155	20	50
Fluoranthene	210		390	558		ug/Kg	☼	89	36 - 147	25	50
Fluorene	78	U	390	261		ug/Kg	☼	67	36 - 138	30	50
Indeno[1,2,3-cd]pyrene	64	J	390	282		ug/Kg	☼	56	35 - 148	17	50
1-Methylnaphthalene	38	J	390	276		ug/Kg	☼	61	36 - 130	26	50

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Lab Sample ID: 680-106803-2 MSD — **Client Sample ID: CV0971VV-CS12"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 356621 — **Prep Batch: 356398**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	78	U	390	273		ug/Kg	☼	70	42 - 130	28	50
Naphthalene	78	U	390	242		ug/Kg	☼	62	33 - 130	24	50
Phenanthrene	130		390	425		ug/Kg	☼	74	40 - 135	33	50
Pyrene	170		390	462		ug/Kg	☼	75	38 - 145	22	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*0*	*D*	*36 - 131*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-356607/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 357015 — **Prep Batch: 356607**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19	U	19	9.3	mg/Kg		11/03/14 09:13	11/05/14 00:47	1
Arsenic	1.9	U	1.9	0.55	mg/Kg		11/03/14 09:13	11/05/14 00:47	1
Iron	19	U	19	6.5	mg/Kg		11/03/14 09:13	11/05/14 00:47	1
Lead	0.93	U	0.93	0.50	mg/Kg		11/03/14 09:13	11/05/14 00:47	1

Lab Sample ID: LCS 680-356607/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 357015 — **Prep Batch: 356607**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	485	486		mg/Kg		100	80 - 120
Arsenic	9.71	10.1		mg/Kg		104	80 - 120
Iron	485	498		mg/Kg		103	80 - 120
Lead	48.5	50.2		mg/Kg		103	80 - 120

Lab Sample ID: 680-106803-2 MS — **Client Sample ID: CV0971VV-CS12"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 357015 — **Prep Batch: 356607**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	15000		552	15000	4	mg/Kg	☼	-4	75 - 125
Arsenic	37		11.0	41.2	F1	mg/Kg	☼	38	75 - 125
Iron	46000		552	35200	4	mg/Kg	☼	-1934	75 - 125
Lead	110		55.2	143	F1	mg/Kg	☼	69	75 - 125

Lab Sample ID: 680-106803-2 MSD — **Client Sample ID: CV0971VV-CS12"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 357015 — **Prep Batch: 356607**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	15000		558	17300	4	mg/Kg	☼	409	75 - 125	14	20
Arsenic	37		11.2	44.0	F1	mg/Kg	☼	63	75 - 125	7	20
Iron	46000		558	38000	4	mg/Kg	☼	-1427	75 - 125	7	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 680-106803-2 MSD | **Client Sample ID: CV0971VV-CS12"**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 357015 | **Prep Batch: 356607**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	110		55.8	197	F1 F2	mg/Kg	☼	164	75 - 125	32	20

QC Association Summary

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

GC/MS Semi VOA

Prep Batch: 356398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106803-1	CV0971VV-CS6"	Total/NA	Solid	3546	
680-106803-2	CV0971VV-CS12"	Total/NA	Solid	3546	
680-106803-2 MS	CV0971VV-CS12"	Total/NA	Solid	3546	
680-106803-2 MSD	CV0971VV-CS12"	Total/NA	Solid	3546	
680-106803-3	CV0971VV-CS18"	Total/NA	Solid	3546	
680-106803-4	CV0971VV-CS24"	Total/NA	Solid	3546	
680-106803-5	CV0971JJ-CS6"	Total/NA	Solid	3546	
680-106803-6	CV0971JJ-CSD6"	Total/NA	Solid	3546	
680-106803-7	CV0971JJ-CS12"	Total/NA	Solid	3546	
680-106803-8	CV0971JJ-CS18"	Total/NA	Solid	3546	
680-106803-9	CV0971JJ-CS24"	Total/NA	Solid	3546	
680-106803-10	CV0971NN-CS6"	Total/NA	Solid	3546	
680-106803-11	CV0971NN-CS12"	Total/NA	Solid	3546	
680-106803-12	CV0971NN-CSD12"	Total/NA	Solid	3546	
680-106803-13	CV0971NN-CS18"	Total/NA	Solid	3546	
680-106803-14	CV0971NN-CS24"	Total/NA	Solid	3546	
680-106803-15	CV0971AP-GS6"	Total/NA	Solid	3546	
680-106803-16	CV0971AP-GS12"	Total/NA	Solid	3546	
680-106803-17	CV0971AP-GS18"	Total/NA	Solid	3546	
680-106803-18	CV0971AP-GS24"	Total/NA	Solid	3546	
680-106803-19	CV0971AD-GS6"	Total/NA	Solid	3546	
680-106803-20	CV0971AD-GS12"	Total/NA	Solid	3546	
LCS 680-356398/22-A	Lab Control Sample	Total/NA	Solid	3546	
MB 680-356398/21-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 356621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106803-1	CV0971VV-CS6"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-2	CV0971VV-CS12"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-2 MS	CV0971VV-CS12"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-2 MSD	CV0971VV-CS12"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-3	CV0971VV-CS18"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-4	CV0971VV-CS24"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-5	CV0971JJ-CS6"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-6	CV0971JJ-CSD6"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-7	CV0971JJ-CS12"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-8	CV0971JJ-CS18"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-9	CV0971JJ-CS24"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-10	CV0971NN-CS6"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-11	CV0971NN-CS12"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-12	CV0971NN-CSD12"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-13	CV0971NN-CS18"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-14	CV0971NN-CS24"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-15	CV0971AP-GS6"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-16	CV0971AP-GS12"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-17	CV0971AP-GS18"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-18	CV0971AP-GS24"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-19	CV0971AD-GS6"	Total/NA	Solid	8270D_LL_PAH	356398
680-106803-20	CV0971AD-GS12"	Total/NA	Solid	8270D_LL_PAH	356398
LCS 680-356398/22-A	Lab Control Sample	Total/NA	Solid	8270D_LL_PAH	356398
MB 680-356398/21-A	Method Blank	Total/NA	Solid	8270D_LL_PAH	356398

QC Association Summary

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Metals

Prep Batch: 356607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106803-1	CV0971VV-CS6"	Total/NA	Solid	3050B	
680-106803-2	CV0971VV-CS12"	Total/NA	Solid	3050B	
680-106803-2 MS	CV0971VV-CS12"	Total/NA	Solid	3050B	
680-106803-2 MSD	CV0971VV-CS12"	Total/NA	Solid	3050B	
680-106803-3	CV0971VV-CS18"	Total/NA	Solid	3050B	
680-106803-4	CV0971VV-CS24"	Total/NA	Solid	3050B	
680-106803-5	CV0971JJ-CS6"	Total/NA	Solid	3050B	
680-106803-6	CV0971JJ-CSD6"	Total/NA	Solid	3050B	
680-106803-7	CV0971JJ-CS12"	Total/NA	Solid	3050B	
680-106803-8	CV0971JJ-CS18"	Total/NA	Solid	3050B	
680-106803-9	CV0971JJ-CS24"	Total/NA	Solid	3050B	
680-106803-10	CV0971NN-CS6"	Total/NA	Solid	3050B	
680-106803-11	CV0971NN-CS12"	Total/NA	Solid	3050B	
680-106803-12	CV0971NN-CSD12"	Total/NA	Solid	3050B	
680-106803-13	CV0971NN-CS18"	Total/NA	Solid	3050B	
680-106803-14	CV0971NN-CS24"	Total/NA	Solid	3050B	
680-106803-15	CV0971AP-GS6"	Total/NA	Solid	3050B	
680-106803-16	CV0971AP-GS12"	Total/NA	Solid	3050B	
680-106803-17	CV0971AP-GS18"	Total/NA	Solid	3050B	
680-106803-18	CV0971AP-GS24"	Total/NA	Solid	3050B	
680-106803-19	CV0971AD-GS6"	Total/NA	Solid	3050B	
680-106803-20	CV0971AD-GS12"	Total/NA	Solid	3050B	
LCS 680-356607/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-356607/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 357015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106803-1	CV0971VV-CS6"	Total/NA	Solid	6010C	356607
680-106803-2	CV0971VV-CS12"	Total/NA	Solid	6010C	356607
680-106803-2 MS	CV0971VV-CS12"	Total/NA	Solid	6010C	356607
680-106803-2 MSD	CV0971VV-CS12"	Total/NA	Solid	6010C	356607
680-106803-3	CV0971VV-CS18"	Total/NA	Solid	6010C	356607
680-106803-4	CV0971VV-CS24"	Total/NA	Solid	6010C	356607
680-106803-5	CV0971JJ-CS6"	Total/NA	Solid	6010C	356607
680-106803-6	CV0971JJ-CSD6"	Total/NA	Solid	6010C	356607
680-106803-7	CV0971JJ-CS12"	Total/NA	Solid	6010C	356607
680-106803-8	CV0971JJ-CS18"	Total/NA	Solid	6010C	356607
680-106803-9	CV0971JJ-CS24"	Total/NA	Solid	6010C	356607
680-106803-10	CV0971NN-CS6"	Total/NA	Solid	6010C	356607
680-106803-11	CV0971NN-CS12"	Total/NA	Solid	6010C	356607
680-106803-12	CV0971NN-CSD12"	Total/NA	Solid	6010C	356607
680-106803-13	CV0971NN-CS18"	Total/NA	Solid	6010C	356607
680-106803-14	CV0971NN-CS24"	Total/NA	Solid	6010C	356607
680-106803-15	CV0971AP-GS6"	Total/NA	Solid	6010C	356607
680-106803-16	CV0971AP-GS12"	Total/NA	Solid	6010C	356607
680-106803-17	CV0971AP-GS18"	Total/NA	Solid	6010C	356607
680-106803-18	CV0971AP-GS24"	Total/NA	Solid	6010C	356607
680-106803-19	CV0971AD-GS6"	Total/NA	Solid	6010C	356607
680-106803-20	CV0971AD-GS12"	Total/NA	Solid	6010C	356607
LCS 680-356607/2-A	Lab Control Sample	Total/NA	Solid	6010C	356607
MB 680-356607/1-A	Method Blank	Total/NA	Solid	6010C	356607

QC Association Summary

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

General Chemistry

Analysis Batch: 356422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106803-1	CV0971VV-CS6"	Total/NA	Solid	Moisture	
680-106803-2	CV0971VV-CS12"	Total/NA	Solid	Moisture	
680-106803-2 MS	CV0971VV-CS12"	Total/NA	Solid	Moisture	
680-106803-2 MSD	CV0971VV-CS12"	Total/NA	Solid	Moisture	
680-106803-3	CV0971VV-CS18"	Total/NA	Solid	Moisture	
680-106803-4	CV0971VV-CS24"	Total/NA	Solid	Moisture	
680-106803-5	CV0971JJ-CS6"	Total/NA	Solid	Moisture	
680-106803-6	CV0971JJ-CSD6"	Total/NA	Solid	Moisture	
680-106803-7	CV0971JJ-CS12"	Total/NA	Solid	Moisture	
680-106803-8	CV0971JJ-CS18"	Total/NA	Solid	Moisture	
680-106803-9	CV0971JJ-CS24"	Total/NA	Solid	Moisture	
680-106803-10	CV0971NN-CS6"	Total/NA	Solid	Moisture	
680-106803-11	CV0971NN-CS12"	Total/NA	Solid	Moisture	
680-106803-12	CV0971NN-CSD12"	Total/NA	Solid	Moisture	
680-106803-13	CV0971NN-CS18"	Total/NA	Solid	Moisture	
680-106803-14	CV0971NN-CS24"	Total/NA	Solid	Moisture	
680-106803-15	CV0971AP-GS6"	Total/NA	Solid	Moisture	
680-106803-16	CV0971AP-GS12"	Total/NA	Solid	Moisture	
680-106803-17	CV0971AP-GS18"	Total/NA	Solid	Moisture	
680-106803-18	CV0971AP-GS24"	Total/NA	Solid	Moisture	
680-106803-19	CV0971AD-GS6"	Total/NA	Solid	Moisture	
680-106803-20	CV0971AD-GS12"	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971VV-CS6"

Lab Sample ID: 680-106803-1
Date Collected: 10/27/14 14:45
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.05 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.05 g	1 mL	356621	11/03/14 13:46	KMW	TAL SAV
	Instrument ID:	CMSK								
Total/NA	Prep	3050B			1.07 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.07 g	100 mL	357015	11/05/14 01:17	BWR	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: CV0971VV-CS12"

Lab Sample ID: 680-106803-2
Date Collected: 10/27/14 15:00
Matrix: Solid
Date Received: 10/31/14 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			30.02 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.02 g	1 mL	356621	11/03/14 13:23	KMW	TAL SAV
	Instrument ID:	CMSK								
Total/NA	Prep	3050B			1.04 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.04 g	100 mL	357015	11/05/14 00:56	BWR	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: CV0971VV-CS18"

Lab Sample ID: 680-106803-3
Date Collected: 10/27/14 15:15
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.05 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.05 g	1 mL	356621	11/03/14 14:09	KMW	TAL SAV
	Instrument ID:	CMSK								
Total/NA	Prep	3050B			1.03 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.03 g	100 mL	357015	11/05/14 01:30	BWR	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: CV0971VV-CS24"

Lab Sample ID: 680-106803-4
Date Collected: 10/27/14 15:30
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.02 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV

Lab Chronicle

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971VV-CS24"

Lab Sample ID: 680-106803-4
Date Collected: 10/27/14 15:30
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 82.5

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	30.02 g	1 mL	356621	11/03/14 14:31	KMW	TAL SAV
	Instrument ID: CMSK									
Total/NA	Prep	3050B			1.01 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.01 g	100 mL	357015	11/05/14 01:34	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: CV0971JJ-CS6"

Lab Sample ID: 680-106803-5
Date Collected: 10/28/14 08:40
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.02 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		1	30.02 g	1 mL	356621	11/03/14 14:54	KMW	TAL SAV
	Instrument ID: CMSK									
Total/NA	Prep	3050B			1.05 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.05 g	100 mL	357015	11/05/14 01:38	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: CV0971JJ-CSD6"

Lab Sample ID: 680-106803-6
Date Collected: 10/28/14 08:45
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.05 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		1	30.05 g	1 mL	356621	11/03/14 15:17	KMW	TAL SAV
	Instrument ID: CMSK									
Total/NA	Prep	3050B			1.10 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.10 g	100 mL	357015	11/05/14 01:43	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: CV0971JJ-CS12"

Lab Sample ID: 680-106803-7
Date Collected: 10/28/14 08:55
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.02 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV

Lab Chronicle

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971JJ-CS12"

Lab Sample ID: 680-106803-7
Date Collected: 10/28/14 08:55
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 87.2

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	30.02 g	1 mL	356621	11/03/14 15:40	KMW	TAL SAV
	Instrument ID: CMSK									
Total/NA	Prep	3050B			1.13 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.13 g	100 mL	357015	11/05/14 01:47	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: CV0971JJ-CS18"

Lab Sample ID: 680-106803-8
Date Collected: 10/28/14 09:10
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.01 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.01 g	1 mL	356621	11/03/14 16:03	KMW	TAL SAV
	Instrument ID: CMSK									
Total/NA	Prep	3050B			1.17 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.17 g	100 mL	357015	11/05/14 01:51	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: CV0971JJ-CS24"

Lab Sample ID: 680-106803-9
Date Collected: 10/28/14 09:25
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.01 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		1	30.01 g	1 mL	356621	11/03/14 16:25	KMW	TAL SAV
	Instrument ID: CMSK									
Total/NA	Prep	3050B			1.06 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.06 g	100 mL	357015	11/05/14 01:55	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: CV0971NN-CS6"

Lab Sample ID: 680-106803-10
Date Collected: 10/28/14 10:15
Matrix: Solid
Date Received: 10/31/14 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			30.02 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV

Lab Chronicle

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971NN-CS6"

Lab Sample ID: 680-106803-10
Date Collected: 10/28/14 10:15
Matrix: Solid
Date Received: 10/31/14 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	30.02 g	1 mL	356621	11/03/14 16:48	KMW	TAL SAV
	Instrument ID: CMSK									
Total/NA	Prep	3050B			1.12 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.12 g	100 mL	357015	11/05/14 02:00	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: CV0971NN-CS12"

Lab Sample ID: 680-106803-11
Date Collected: 10/28/14 10:30
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.01 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.01 g	1 mL	356621	11/03/14 17:11	KMW	TAL SAV
	Instrument ID: CMSK									
Total/NA	Prep	3050B			1.09 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.09 g	100 mL	357015	11/05/14 02:04	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: CV0971NN-CSD12"

Lab Sample ID: 680-106803-12
Date Collected: 10/28/14 10:35
Matrix: Solid
Date Received: 10/31/14 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			30.04 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.04 g	1 mL	356621	11/03/14 17:34	KMW	TAL SAV
	Instrument ID: CMSK									
Total/NA	Prep	3050B			1.07 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.07 g	100 mL	357015	11/05/14 02:08	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: CV0971NN-CS18"

Lab Sample ID: 680-106803-13
Date Collected: 10/28/14 10:45
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.03 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV

Lab Chronicle

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971NN-CS18"

Lab Sample ID: 680-106803-13
Date Collected: 10/28/14 10:45
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 84.3

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	30.03 g	1 mL	356621	11/03/14 17:56	KMW	TAL SAV
	Instrument ID: CMSK									
Total/NA	Prep	3050B			1.09 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.09 g	100 mL	357015	11/05/14 02:21	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: CV0971NN-CS24"

Lab Sample ID: 680-106803-14
Date Collected: 10/28/14 11:00
Matrix: Solid
Date Received: 10/31/14 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			30.03 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.03 g	1 mL	356621	11/03/14 18:19	KMW	TAL SAV
	Instrument ID: CMSK									
Total/NA	Prep	3050B			1.07 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.07 g	100 mL	357015	11/05/14 02:25	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: CV0971AP-GS6"

Lab Sample ID: 680-106803-15
Date Collected: 10/28/14 11:20
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.01 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.01 g	1 mL	356621	11/03/14 18:42	KMW	TAL SAV
	Instrument ID: CMSK									
Total/NA	Prep	3050B			1.03 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.03 g	100 mL	357015	11/05/14 02:30	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: CV0971AP-GS12"

Lab Sample ID: 680-106803-16
Date Collected: 10/28/14 11:35
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.01 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV

Lab Chronicle

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971AP-GS12"

Lab Sample ID: 680-106803-16
Date Collected: 10/28/14 11:35
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 80.9

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		10	30.01 g	1 mL	356621	11/03/14 19:05	KMW	TAL SAV
	Instrument ID: CMSK									
Total/NA	Prep	3050B			1.04 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.04 g	100 mL	357015	11/05/14 02:34	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: CV0971AP-GS18"

Lab Sample ID: 680-106803-17
Date Collected: 10/28/14 11:50
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.01 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.01 g	1 mL	356621	11/03/14 19:27	KMW	TAL SAV
	Instrument ID: CMSK									
Total/NA	Prep	3050B			1.13 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.13 g	100 mL	357015	11/05/14 02:38	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: CV0971AP-GS24"

Lab Sample ID: 680-106803-18
Date Collected: 10/28/14 12:05
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 84.4

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	356398	10/31/14 17:08	JMK	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.01 g	1 mL	356621	11/03/14 19:50	KMW	TAL SAV
	Instrument ID: CMSK									
Total/NA	Prep	3050B			1.18 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.18 g	100 mL	357015	11/05/14 02:42	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: CV0971AD-GS6"

Lab Sample ID: 680-106803-19
Date Collected: 10/28/14 12:50
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.05 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV

Lab Chronicle

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

TestAmerica Job ID: 680-106803-1
SDG: 680-106803-01

Client Sample ID: CV0971AD-GS6"

Lab Sample ID: 680-106803-19

Date Collected: 10/28/14 12:50
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 81.5

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	30.05 g	1 mL	356621	11/03/14 20:13	KMW	TAL SAV
	Instrument ID:	CMSK								
Total/NA	Prep	3050B			1.01 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.01 g	100 mL	357015	11/05/14 02:47	BWR	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: CV0971AD-GS12"

Lab Sample ID: 680-106803-20

Date Collected: 10/28/14 13:00
Matrix: Solid
Date Received: 10/31/14 09:34
Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.04 g	1 mL	356398	10/31/14 17:08	JMK	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		1	30.04 g	1 mL	356621	11/03/14 20:36	KMW	TAL SAV
	Instrument ID:	CMSK								
Total/NA	Prep	3050B			1.12 g	100 mL	356607	11/03/14 09:13	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.12 g	100 mL	357015	11/05/14 02:51	BWR	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Analysis	Moisture		1			356422	10/31/14 16:21	MDK	TAL SAV
	Instrument ID:	NOEQUIP								

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 87251

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35TH AVE INVESTIGATION	2014078-1006	AL	1	5

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
RUSSELL HENDERSON	678-355-5550	

CLIENT NAME	CLIENT E-MAIL
OTIE	RHENDERSON@OTIE.COM

CLIENT ADDRESS: 1220 KENNESTONE CIRCLE, MARIETTA, GA 30066

COMPANY CONTRACTING THIS WORK (if applicable):

STANDARD REPORT DELIVERY ( )
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) (X)
DATE DUE 7DAY TAT
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE — COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS — NUMBER OF CONTAINERS SUBMITTED

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAHs	AL	As	Fe	Pb						REMARKS
10/27/14	1445	CV0971VV-CS6"	C		S			X	X	X	X	X						
10/27/14	1500	CV0971VV-CS12"	C		S			X	X	X	X	X						MS/MSD
10/27/14	1515	CV0971VV-CS18"	C		S			X	X	X	X	X						
10/27/14	1530	CV0971VV-CS24"	C		S			X	X	X	X	X						
10/28/14	0840	CV0971JJ-CS6"	C		S			X	X	X	X	X						
10/28/14	0845	CV0971JJ-CSD6"	C		S			X	X	X	X	X						
10/28/14	0855	CV0971JJ-CS12"	C		S			X	X	X	X	X						
10/28/14	0910	CV0971JJ-CS18"	C		S			X	X	X	X	X						
10/28/14	0925	CV0971JJ-CS24"	C		S			X	X	X	X	X						
10/28/14	1015	CV0971NN-CS6"	C		S			X	X	X	X	X						
10/28/14	1030	CV0971NN-CS12"	C		S			X	X	X	X	X						
10/28/14	1035	CV0971NN-CSD12"	C		S			X	X	X	X	X						

680-106803 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	10/30/14	1600						

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]	10/31/14	0934	YES ( ) NO ( )		680-106803	3.6/4.4/4.2

TAL8240-680 (1008)

Serial Number 87249

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35TH AVE INVESTIGATION	2014078-1006	AL	2	5

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
RUSSEL HENDERSON	678-355-5550	

CLIENT NAME	CLIENT E-MAIL
OTIE	RHENDERSON@OTIE.COM

CLIENT ADDRESS: 1220 KENNESTONE CIRCLE, MARIETTA, GA 30066

COMPANY CONTRACTING THIS WORK (if applicable):

STANDARD REPORT DELIVERY ( )

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) (X)

DATE DUE 7DAYTAT

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAHs	AL	As	Fe	Pb						REMARKS
PRESERVATIVE																		
10/28/14	1045	CV0971NN-CS18"	C		S			X	X	X	X	X						
10/28/14	1100	CV0971NN-CS24"	C		S			X	X	X	X	X						
10/28/14	1120	CV0971AP-GS6"	G		S			X	X	X	X	X						
10/28/14	1135	CV0971AP-GS12"	G		S			X	X	X	X	X						
10/28/14	1150	CV0971AP-GS18"	G		S			X	X	X	X	X						
10/28/14	1205	CV0971AP-GS24"	G		S			X	X	X	X	X						
10/28/14	1250	CV0971AO-GS6"	G		S			X	X	X	X	X						
10/28/14	1300	CV0971AO-GS12"	G		S			X	X	X	X	X						
10/28/14	1310	CV0971AO-GS18"	G		S			X	X	X	X	X						
10/28/14	1320	CV0971AO-GS24"	G		S			X	X	X	X	X						
10/28/14	1345	CV0971SS-CS6"	C		S			X	X	X	X	X						
10/28/14	1400	CV0971SS-CS12"	C		S			X	X	X	X	X						

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	10/30/14	1600						

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]	10/31/14	0934	YES ( ) NO ( )		680-106803	

TAL8240-680 (1008)

Serial Number 87250

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35TH AVE INVESTIGATION	2014078-1006	AL

PAGE 3 OF 5

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
RUSSELL HENDERSON	678-355-5550	

CLIENT NAME	CLIENT E-MAIL
OTIE	

CLIENT ADDRESS: 1220 KENNESTONE CIRCLE, MARIETTA, GA 30066

COMPANY CONTRACTING THIS WORK (if applicable):

STANDARD REPORT DELIVERY ( )

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) (X)

DATE DUE TODAY TAT

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE — COMPOSITE (C) OR GRAB (G) INDICATE

REQUIRED ANALYSIS / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAHs	AL	As	Fe	Pb						REMARKS
10/28/14	1415	CV09715S-CS18"	C		S			X	X	X	X	X						MS/MSD
10/28/14	1430	CV09715S-CS24"	C		S			X	X	X	X	X						
10/28/14	1440	CV0971TT-CS6"	C		S			X	X	X	X	X						
10/28/14	1455	CV0971TT-CS12"	C		S			X	X	X	X	X						
10/28/14	1510	CV0971TT-CS18"	C		S			X	X	X	X	X						
10/28/14	1525	CV0971TT-CS24"	C		S			X	X	X	X	X						MS/MSD
10/29/14	1115	CV09710-CS6"	C		S			X	X	X	X	X						
10/29/14	1130	CV09710-CS12"	C		S			X	X	X	X	X						
10/29/14	1145	CV09710-CS18"	C		S			X	X	X	X	X						
10/29/14	1200	CV9710-CS24"	C		S			X	X	X	X	X						
10/29/14	1150	CV09710-CSD18"	C		S			X	X	X	X	X						
10/29/14	1410	CV09712-CS6"	C		S			X	X	X	X	X						

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	10/30/14	1600						

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]	10/31/14	0934	YES ( ) NO ( )		680-106803	

TAL8240-680 (1008)

Serial Number 87252

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

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Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE 4 OF 5
35TH AVE INVESTIGATION	2014078-1006	AL	
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ( )
CLIENT (SITE) PM: RUSSELL HENDERSON	CLIENT PHONE: 678-355-5550	CLIENT FAX	DATE DUE
CLIENT NAME: OTIE	CLIENT E-MAIL: RHENDERSON@OTIE.COM		EXPEDITED REPORT DELIVERY (SURCHARGE) (X)
CLIENT ADDRESS: 1220 KENNESTONE CIRCLE, MARIETTA, GA 30066			DATE DUE: 7DAY TAT
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS / NUMBER OF CONTAINERS SUBMITTED

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LLPAHs	AL	AS	Fe	Pb						REMARKS
10/29/14	1420	CV0971P-CS12"	C		S			X	X	X	X	X						
10/29/14	1515	CV0971P-CS18"	C		S			X	X	X	X	X						
10/29/14	1530	CV0971P-CS24"	C		S			X	X	X	X	X						
10/29/14	1435	CV0971AI-GS6"	G		S			X	X	X	X	X						
10/29/14	1445	CV0971AI-GS12"	G		S			X	X	X	X	X						
10/29/14	1455	CV0971AI-GS18"	G		S			X	X	X	X	X						
10/29/14	1500	CV0971AI-GS24"	G		S			X	X	X	X	X						
10/29/14	1630	CV0971K-CS6"	C		S			X	X	X	X	X						
10/29/14	1635	CV0971K-CS06"	C		S			X	X	X	X	X						
10/29/14	1645	CV0971K-CS12"	C		S			X	X	X	X	X						
10/29/14	1700	CV0971K-CS18"	C		S			X	X	X	X	X						
10/29/14	1715	CV0971K-CS24"	C		S			X	X	X	X	X						

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	10/30/14	1600						
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]	10/31/14	0934	YES ( ) NO ( )		680-106803	

TAL8240-680 (1008)

Serial Number 87253

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
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Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: 35TH AVE INVESTIGATION	PROJECT NO.: 2014078-1006	PROJECT LOCATION (STATE): AL	PAGE 5 OF 5
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ○
CLIENT (SITE) PM: RUSSELL HENDERSON	CLIENT PHONE: 678-355-5550	CLIENT FAX	DATE DUE
CLIENT NAME: OTIE	CLIENT E-MAIL		EXPEDITED REPORT DELIVERY (SURCHARGE) ⊗
CLIENT ADDRESS: 1220 KENNESTONE CIRCLE, MARIETTA, GA 30066			DATE DUE: 7 DAY TAT
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS / PRESERVATIVE: LL PAHs; AL; As; Fe; Pb

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAHs	AL	As	Fe	Pb						REMARKS
10/30/14	0930	FM0161AVa-CS0-4"	C		S			X	X	X	X	X						
10/30/14	0945	FM0161AVb-CS0-4"	C		S			X	X	X	X	X						
10/30/14	1020	CV0971E-CS6"	C		S			X	X	X	X	X						
10/30/14	1035	CV0971E-CS12"	C		S			X	X	X	X	X						
10/30/14	1040	CV0971E-CSD12"	C		S			X	X	X	X	X						
10/30/14	1050	CV0971E-CS18"	C		S			X	X	X	X	X						
10/30/14	1105	CV0971E-CS24"	C		S			X	X	X	X	X						
10/30/14	1300	CV0971A-CS6"	C		S			X	X	X	X	X						
10/30/14	1315	CV0971A-CS12"	C		S			X	X	X	X	X						
10/30/14	1330	CV0971A-CS18"	C		S			X	X	X	X	X						
10/30/14	1335	CV0971A-CSD18"	C		S			X	X	X	X	X						
10/30/14	1400	CV0971A-CS24"	C		S			X	X	X	X	X						

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	10/30/14	1600						
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
	10/31/14	0934	YES ○ NO ○		680-106803	

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106803-1
SDG Number: 680-106803-01

Login Number: 106803
List Number: 1
Creator: Conner, Keaton

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?	True	
There are no discrepancies between the containers received and the COC.	False	RECEIVED EXTRA VOLUME -55 -- ASSIGNED AS ANOTHER MS/MSD
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: 680-106803-1
SDG: 680-106803-01

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