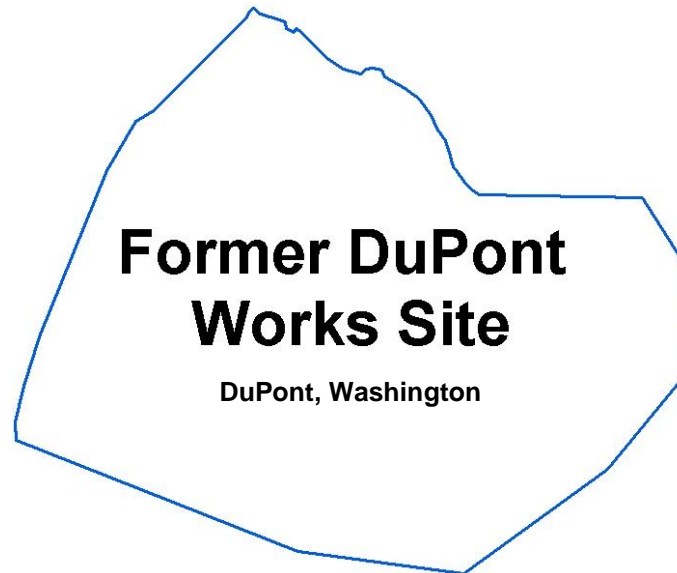


Groundwater Monitoring Results for 2014



PREPARED FOR:

The Weyerhaeuser Company

And

E.I. DuPont Nemours and Company

PREPARED BY:



5205 Corporate Center Ct. SE, Suite A
Olympia, WA 98503
Phone: 360.570.1700
Fax: 360.570.1777
www.uspioneer.com

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ACRONYMS AND ABBREVIATIONS

Acronym	Explanation
2,4-DNT	2,4-dinitrotoluene
2,6-DNT	2,6-dinitrotoluene
DNT	Dinitrotoluene
DNT Mixture (2,4-/2,6-)	Dinitrotoluene Mixture (2,4-dinitrotoluene/2,6-dinitrotoluene)
Ecology	Washington State Department of Ecology
GWM	Groundwater Monitoring
MTCA	Model Toxics Control Act
MWs	Monitoring Well(s)
PIONEER	PIONEER Technologies Corporation
QA	Quality Assurance
Site	Former DuPont Works Site
ug/L	Micrograms Per Liter
USEPA	United States Environmental Protection Agency

SECTION 1 – INTRODUCTION

1.1 Purpose

The purpose of this report is to document the groundwater monitoring (GWM) event conducted on May 23, 2014 at the Former DuPont Works Site (Site) within the Parcel One Consent Decree Boundary, and to recommend a GWM path forward for 2015. This report and the recommended path forward are being submitted to the Washington State Department of Ecology (Ecology) for approval.

1.2 Long-Term Monitoring Background

The Site is located in the City of DuPont, Pierce County, Washington (see Figure 1-1). The hydrogeologic system beneath the Site includes two aquifers: the shallow unconfined aquifer (Water Table Aquifer) in Vashon Drift deposits, and the deeper Sea Level Aquifer in Salmon Springs deposits (URS and PIONEER Technologies Corporation [PIONEER] 2003). Water quality monitoring in both aquifers began in 1988. The monitoring network has included over 30 monitoring wells (MWs). MWs and constituents formerly part of the monitoring network have been eliminated from further consideration based on past GWM findings and Ecology approval.

There are currently two Sea Level Aquifer MWs in the long-term GWM network that are being sampled per the Cleanup Action Plan (West Shore Corporation NW 2003) (see Figure 1-2). GWM events are being conducted annually. Groundwater samples collected during these events are being analyzed for 2,4-dinitrotoluene (2,4-DNT) and 2,6-dinitrotoluene (2,6-DNT). Ecology determined that “no active remedial action” was needed for groundwater, and that long-term monitoring at selected MWs would be sufficient because of the following: 1) DNT concentrations are consistently low, 2) there are no down-gradient drinking water receptors, and 3) surface water has not been impacted (URS and PIONEER 2003). The decision criteria for determining future GWM actions are discussed in Section 1.3.

1.3 Decision Criteria

The Model Toxics Control Act (MTCA) Method A surface water cleanup level and isomer-specific decision criteria presented in the March 2007 Former DuPont Works Site Closure Report (Closure Report) (PIONEER 2007) are being used as decision criteria for the Site. The MTCA Method A marine surface water cleanup level for DNT of 9.1 micrograms per liter (ug/L) is useful for evaluating groundwater data because on-Site groundwater eventually discharges to the Puget Sound. Long-term GWM at the Site has demonstrated that the DNT concentrations have always been significantly below the MTCA Method A surface water cleanup level for DNT.

Isomer-specific decision criteria presented in the Closure Report were based on the assumption that the groundwater is used as a residential drinking water source, are as follows:

- 2,4-DNT = 32 ug/L
- 2,6-DNT = 16 ug/L
- DNT mixture (2,4-/2,6-) (if both isomers are detected) = 0.33 ug/L

These decision criteria presented in the Closure Report are being used to determine the duration of GWM. GWM at a particular MW will be discontinued if either of the following occur:

- Both DNT isomers are detected, but the DNT mixture concentration is below the decision criteria presented in the Closure Report for a DNT mixture for four consecutive GWM events.
- Only one DNT isomer is detected and the isomer concentration is below the respective decision criteria presented in the Closure Report for that isomer for four consecutive GWM events.

It should be noted that the decision criteria presented in the Closure Report for the DNT mixture is lower because the mixture was considered more toxic than each isomer individually. It should also be noted that the standard formula value of 0.13 ug/L for the DNT mixture was adjusted up to the combined practical quantitation limit of 0.33 ug/L in accordance with Washington Administrative Code 173-340-720(7)(c).

SECTION 2 – FIELD ACTIVITIES

PIONEER Technologies Corporation (PIONEER) conducted the GWM event on May 23, 2014. All GWM activities were conducted in accordance with the 2009 Groundwater Monitoring Plan (PIONEER 2009). A submersible pump with dedicated linear low density polyethylene tubing was used to purge two well casings of water from each MW prior to sampling. Standard United States Environmental Protection Agency (USEPA) low-flow purging and sampling procedures were used (USEPA 2002). Calibrated YSI Model 556 MPS-4 and LaMotte Turbidity Meter Model 2020e meters were used to monitor pH, temperature, conductance, oxidation reduction potential, relative oxygen saturation, and turbidity during purging. An electronic water level indicator was also used to monitor the static water level during purging. These parameters were monitored every 3-5 minutes to verify stabilization in accordance with the 2009 Groundwater Monitoring Plan. Following parameter stabilization, groundwater samples were collected from MWs DA-1 and DA-3. A duplicate sample was collected from MW DA-1. All non-dedicated equipment was decontaminated using a mild detergent between each sampling location. Approximately 20 gallons of purge water was generated and was transferred to a secured 500-gallon plastic tank being stored on-Site. All investigation-derived waste generated during the GWM event was disposed of in the standard municipal solid waste stream. All samples were submitted to TestAmerica, located in West Sacramento, California, and were analyzed for 2,4-DNT and 2,6-DNT using USEPA Method SW-846-8330A (USEPA 2007). Appendix A contains copies of the field notes.

SECTION 3 – RESULTS

Appendix B contains the analytical laboratory report as well as the Quality Assurance (QA) validation performed by QA/QC Solutions, LLC for the 2014 GWM event. The analytical data were deemed acceptable for use with the stated qualifications. A summary of the key QA findings include the following (see Appendix B):

- Detected results for 2,6-DNT were qualified as estimated due to matrix effect (high surrogate recovery) and detected results may be biased high.
- The detected results for 2,6-DNT were also qualified as estimated due to poor precision between the primary and confirmation analyses.
- Results for 2,4-DNT and 2,6-DNT were qualified as estimated due to the sample cooler being received outside of temperature range requirements.

The analytical results are summarized below:

- 2,4-DNT was not detected in any sample.
- 2,6-DNT was detected in MWs DA-1 and DA-3 with detected concentrations estimated at 0.45 and 0.43 ug/L, respectively.

Table 3-1 presents the DNT data from the previous four GWM events for the MWs part of the current Site monitoring network.

SECTION 4 – FINDINGS AND RECOMMENDATIONS

During the past four GWM events, 2,4-DNT has not been detected and 2,6-DNT has been detected below the decision criteria presented in the Closure Report of 16 ug/L at MWs DA-1 and DA-3. In addition, all groundwater concentrations remain less than the MTCA Method A surface water cleanup level of 9.1 µg/L. Therefore, GWM events will cease at DA-1 and DA-3, and remaining MWs that were formerly part of the Site GWM network will be decommissioned when feasible. Table 4-1 summarizes the decision logic and the recommended path forward.

SECTION 5 – REFERENCES

- PIONEER (PIONEER Technologies Corporation). 2007. Closure Report, Former DuPont Work Site, Dupont, Washington.
- PIONEER. 2009. Groundwater Monitoring Plan, Former DuPont Works Site, Dupont, Washington.
- USEPA (United States Environmental Protection Agency). 2007. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods 2007.
<http://www.epa.gov/epaoswer/hazwaste/test/sw846.htm#How>
- USEPA. 2002. Ground-Water Sampling Guidelines for Superfund and RCRA Project Managers.
- URS Inc. and PIONEER (URS Inc. and PIONEER Technologies Corporation). 2003. Remedial Investigation, Former DuPont Works Site, Dupont, Washington.
- West Shore Corporation NW. 2003. Cleanup Action Plan, Former DuPont Works Site, Dupont, Washington.

Tables

Table 3-1: Dinitrotoluene Groundwater Concentrations

Well	2011 GWM Event May 2011						2012 GWM Event May 2012						2013 GWM Event June 2013						2014 GWM Event May 2014					
	2,4-DNT (ug/L)		2,6-DNT (ug/L)		DNT Mixture (ug/L)		2,4-DNT (ug/L)		2,6-DNT (ug/L)		DNT Mixture (ug/L)		2,4-DNT (ug/L)		2,6-DNT (ug/L)		DNT Mixture (ug/L)		2,4-DNT (ug/L)		2,6-DNT (ug/L)		DNT Mixture (ug/L)	
DA-1	0.097	U	0.18		0.23		0.099	U	0.26	J	0.31	J	0.10	U	0.34	J	0.39	J	0.10	UJ ⁽⁴⁾	0.45	J ⁽⁴⁾	0.50	J
DA-3	0.098	U ⁽¹⁾	0.22	J ⁽¹⁾	0.27	J	0.099	U ⁽²⁾	0.24	J ⁽²⁾	0.29	J	0.10	U ⁽³⁾	0.34	J ⁽³⁾	0.39	J	0.10	UJ	0.43	J	0.48	J

Notes:

U: Not detected at associated reporting limit concentration

J: Estimated concentration

DNT Mixture concentration equals the sum of 2,4-DNT and 2,6-DNT concentrations with half the detection limit used for non-detects.

- ⁽¹⁾ Field duplicate was collected from DA-3 during this GWM event. 2,4-DNT and 2,6-DNT concentrations in duplicate were 0.096U ug/L and 0.21J ug/L, respectively.
- ⁽²⁾ Field duplicate was collected from DA-3 during this GWM event. 2,4-DNT and 2,6-DNT concentrations in duplicate were 0.10U ug/L and 0.24J ug/L, respectively.
- ⁽³⁾ Field duplicate was collected from DA-3 during this GWM event. 2,4-DNT and 2,6-DNT concentrations in duplicate were 0.10U ug/L and 0.34J ug/L, respectively.
- ⁽⁴⁾ Field duplicate was collected from DA-1 during this GWM event. 2,4-DNT and 2,6-DNT concentrations in duplicate were 0.10U ug/L and 0.46J ug/L, respectively.

Decision Criteria

DNT Method A surface water cleanup level	9.1 ug/L
DNT Mixture (if both isomers are detected) decision criteria	0.33 ug/L
2,4-DNT decision criteria	32 ug/L
2,6-DNT decision criteria	16 ug/L

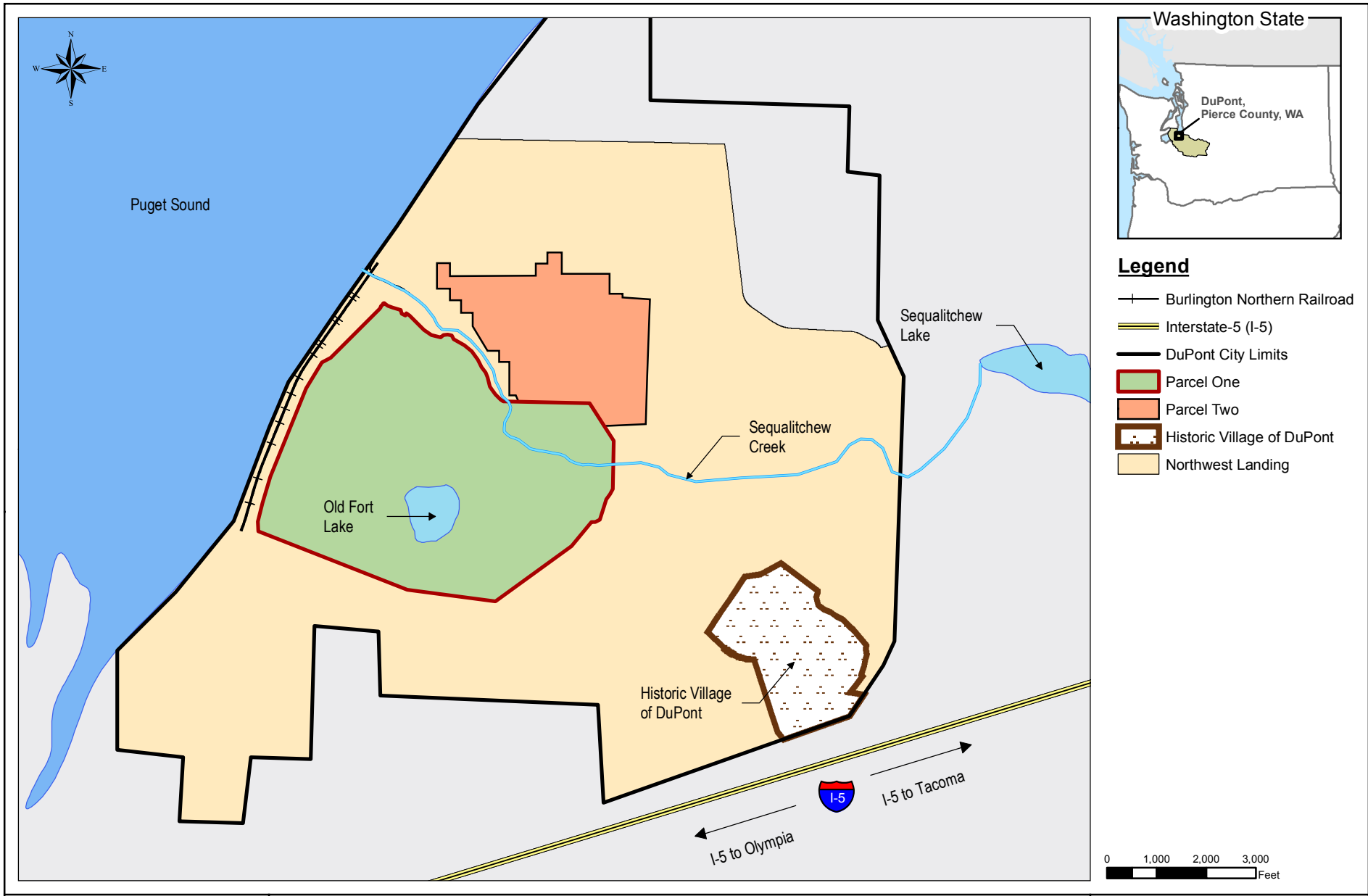
Table 4-1: Future Sampling Decision Matrix

Well	2011 GWM Event			2012 GWM Event			2013 GWM Event			2014 GWM Event			2015 GWM Event
	Both DNT Isomers Detected?	Less than Cleanup Level for DNT Mixture?	Less than Cleanup Level for Detected DNT Isomer?	Both DNT Isomers Detected?	Less than Cleanup Level for DNT Mixture?	Less than Cleanup Level for Detected DNT Isomer?	Both DNT Isomers Detected?	Less than Cleanup Level for DNT Mixture?	Less than Cleanup Level for Detected DNT Isomer?	Both DNT Isomers Detected?	Less than Cleanup Level for DNT Mixture?	Less than Cleanup Level for Detected DNT Isomer?	Action
DA-1	No	N/A Only one isomer detected.	Yes	No	N/A Only one isomer detected.	Yes	No	N/A Only one isomer detected.	Yes	No	N/A Only one isomer detected.	Yes	Discontinue GWM
DA-3	No	N/A Only one isomer detected.	Yes	No	N/A Only one isomer detected.	Yes	No	N/A Only one isomer detected.	Yes	No	N/A Only one isomer detected.	Yes	Discontinue GWM

Notes:

N/A: Not applicable

Figures



Site Vicinity Map
Groundwater Monitoring Results for 2014
Former DuPont Works Site

Figure 1-1



Groundwater Monitoring Locations
Groundwater Monitoring Results for 2014
Former DuPont Works Site

Figure 1-2

Appendix A

PIONEER DAILY FIELD REPORT

Date: 5/23/14 Site Location: The Home Course Site Arrival Time: 9:00 Site Departure Time: 1:30p

**WEATHER
TEMPERATURE
WIND**

Clear Sun To 32	Overcast 32-50	Drizzle 50-70	Rain 70-85	Snow 85 Up
Calm	Med.	Strong	Severe	

PEOPLE PRESENT ON-SITE

NAME	ASSOCIATION	TIME ON-SITE AND OFF-SITE
Stacy Munson	PTC	9 - 1:30
Shella Swain	PTC	9 - 1:30

NOTES ON WORK COMPLETED

9:00 Arrive on site. Meet with Joey from golf course to discuss best way to access DA-3.

10:00 Begin setup on MW DA-1, near tee boxes on hole #3. Setup pump, generator, tubing, flow cell and sampling equipment. Start-up pump, and begin low flow sampling. See water level and monitoring form for stabilization parameters.

Collected sample GW-DA-1-052314, and a duplicate sample GW-DA-1-052314-(oil) at 11:30 am. Also collected MS/MCD volume for this sample.

11:45 Packing up gear, moving over to DA-3. Setup all equipment, and begin low flow sampling (see GWM sheet).

Collected sample GW-DA-3-052314 at 1:00p.

Packing up gear, heading to maintenance building.

1:30 Placing purge water from wells into baker tank, and placing sample into baker tank. Tank is slightly more than half full.

2:00 Off-site, to return equipment and ship samples.

SIGNATURE: Stacy Munson

DATE: 5/23/14

Appendix B

Chemical Data Quality Review

Former DuPont Works Site Groundwater Sampling Event 2014

Prepared for:

PIONEER Technologies Corporation

5205 Corporate Center Ct. SE. Suite A
Olympia, Washington 98503-5901

Prepared by:

QA/QC Solutions, LLC

7532 Champion Hill Rd. SE
Salem, Oregon 97306



June 29, 2014

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Acronyms and Abbreviations

2,4-DNT	2,4-Dinitrotoluene
2,6-DNT	2,6-Dinitrotoluene
3,4-DNT	3,4-Dinitrotoluene
CCV	continuing calibration verification
CFs	calibration factors
HPLC	high performance liquid chromatography
LCS	laboratory control sample
MS/MSD	matrix spike/matrix spike duplicate
NA	not applicable
QA/QC	quality assurance and quality control
QAPP	quality assurance project plan
RPD	relative percent difference
RSD	relative standard deviation
USEPA	U.S. Environmental Protection Agency
UV	Ultraviolet

Introduction

This report documents the results of the chemical data quality review (i.e., data validation) that was completed for the chemical analyses for 2,4-Dinitrotoluene (2,4-DNT) and 2,6-Dinitrotoluene (2,6-DNT). The analyses of 2,4-DNT and 2,6-DNT were completed on groundwater samples associated with Former DuPont Works Site annual sampling event completed on May 23, 2014.

The data were validated to verify the laboratory quality assurance and quality control (QA/QC) procedures were documented and that the overall quality of the data reported is sufficient to support its intended purposes. A summary of the data set, the analytical method used to complete the chemical analyses, the data validation procedures used, the overall assessment of data quality, and the data quality review summary is presented below.

Data Set

The data set consisted of two groundwater samples and one field duplicate groundwater sample that were collected on May 23, 2014 by PIONEER Technologies Corporation. Analyses were completed by Test America located in Sacramento, California under project number 320-7661-1.

The samples collected included the following:

Sample Identifier	Laboratory Sample Number	Date Collected	Time Collected
GW-DA1-052314	320-7661-1	05/23/14	1130
GW-DA-1-052314-(01) (a field duplicate)	320-7661-2	05/23/14	1130
GW-DA3-052314	320-7661-3	05/23/14	1300

The final validated results for the samples analyzed are summarized below.

Sample Identifier	Laboratory Sample Number	2,4-DNT (ug/L)	2,6-DNT (ug/L)
GW-DA1-052314	320-7661-1	0.10 UJ	0.45 J
GW-DA-1-052314-(01) (a field duplicate)	320-7661-2	0.10 UJ	0.46 J
GW-DA3-052314	320-7661-3	0.10 UJ	0.43 J

J – estimated

U – undetected

Analytical Method

Analyses for 2,4-DNT and 2,6-DNT were completed using U.S. EPA SW-846 Method 8330A (U.S. EPA 2014). This is a high performance liquid chromatography [HPLC] analytical method for nitroaromatics and nitramines with ultraviolet [UV] detection).

Data Validation Procedures

The analytical data were validated generally following the applicable guidance:

- *Guidance on Environmental Data Verification and Validation* (U.S. EPA 2002).
- In the context of method-specific and laboratory-established quality control requirements, as applicable.

Data validation procedures included evaluating 100-percent (i.e., a comprehensive review) of the sample results and applicable quality control results reported by the laboratory. The information reviewed during data validation included the following:

- The case narrative discussing analytical problems (if any) and procedures.
- Chain-of-custody documentation to verify completeness of the data set.
- Sample preparation logs or laboratory summary result forms to verify analytical holding times were met.
- Results of initial calibration and continuing calibration verification results to assess instrument performance.
- Results of the method blank to determine whether an analyte that was reported as detected in any sample was the result of possible contamination introduced at the laboratory.
- Results for the surrogate compound, matrix spike (MS), laboratory control sample (LCS) and LCS duplicate (i.e., blank spikes) recoveries to assess analytical accuracy. A matrix spike duplicate (MSD) was not analyzed with this data set due to insufficient sample volume available due to bottle breakage during sample transport.
- Results for the field duplicate samples to provide additional information in support of the quality assurance review. A laboratory duplicate sample was not analyzed with this data set due to insufficient sample volume available due to bottle breakage during sample transport.
- Reviewing all instrument printouts (e.g., chromatograms and quantification reports) to assess the validity of analyte identification (i.e., qualitative assessment) as either detected or undetected. All sample and associated QC information was reviewed.
- Verifying the quantification of all sample results and applicable quality control measurement (e.g., instrument calibrations; surrogate, MS, and LCS recoveries) results by recalculation.

The laboratory case narrative did not indicate any significant problems with data that were not reviewed. The adequacy of the sampling procedures was not completed during data validation. Performance based control limits established by the laboratory and control limits provided in the method protocols were used to evaluate data quality and determine the need for data qualification. Applicable laboratory control limits (e.g., recoveries for surrogate compounds and the LCS spiking compounds) were used during data validation. Data qualifiers were assigned during data validation when applicable QA/QC limits were not met and qualification of the data was warranted.

Overall Assessment of Data Quality

Overall, the data reported are of good quality and the results for the applicable QA/QC procedures that were used by the laboratories during the analysis of the samples are generally acceptable. A total of six results were reported. There were no missing results and no results were rejected (*R*); therefore, completeness is 100-percent.

Selected sample results required qualification during data validation because method-specific QA/QC criteria were not met; results maybe qualified for more than one reason. During data validation, the following actions were taken:

- Three (3) results reported as undetected for 2,4-DNT were qualified as estimated (*UJ*).
- Three (3) results reported as detected for 2,6-DNT were qualified as estimated (*J*).
- No results were restated as undetected (*U*).
- No results required rejection (*R*).

SUMMARY OF QUALIFIED DATA							
Sample Identifier	Laboratory Sample Number	Chemical	Concentration (ug/L)	RL (ug/L)	Laboratory Data Flag	Data Validation Qualifier	Potential Bias
GW-DA1-052314	320-7661-1	2,4-DNT	ND	0.10	U	UJ	Unknown
		2,6-DNT	0.45	0.10	P	J	High
GW-DA-1-052314-(01) (a field duplicate)	320-7661-2	2,4-DNT	ND	0.10	U	UJ	Unknown
		2,6-DNT	0.46	0.10	P	J	High
GW-DA3-052314	320-7661-3	2,4-DNT	ND	0.10	U	UJ	Unknown
		2,6-DNT	0.43	0.10	P	J	High

J - estimated

P – The %RPD between the primary and confirmation column/detector is >40%. The higher value has been reported (as defined by Test America)

RL – reporting limit

UJ – undetected and estimated

All data qualified as estimated (*J* or *UJ*) represent data of good quality and reasonable confidence and have an acceptable degree of uncertainty (i.e., may be less precise or less accurate than unqualified data). Analytical data that were reported as undetected (*U*) by the laboratory are usable.

Reasons for qualification of the data included the following:

- All three results reported as undetected for 2,4-DNT were qualified as estimated (*UJ*) and reported as detected for 2,6-DNT were qualified as estimated (*J*) because the samples were received at the laboratory at a temperature >6 °C.
- All three results reported as detected for 2,6-DNT were qualified as estimated (*J*) because the relative percent difference (RPD) between the concentrations quantified using dual-column confirmation was greater than method-specific control limit 40. The laboratory reported the higher of the two concentrations; therefore, these data may exhibit a high bias.
- All three results reported as detected for 2,6-DNT were additionally qualified as estimated (*J*) because the recovery of the surrogate compound 3,4-Dinitrotoluene (3,4-

DNT) was above the upper laboratory-established control limit of 111 percent in all three samples. These qualified data may exhibit a high bias.

Data Quality Review Summary

The chemical data for the analysis completed were evaluated in terms of completeness, holding times, instrument performance, laboratory and field blanks, bias, precision, and analyte identification and quantification. The results for the quality control procedures used during sample analyses are discussed below.

Completeness

Three samples were collected on May 23, 2014 and a total of six results were reported, as was planned. There were no missing results and no results were rejected (*R*) during data validation. Overall completeness, therefore, is 100-percent. The laboratory noted all samples were received in good condition and within temperature limit requirements. No discrepancies were noted between the chain-of-custody and the final report.

Holding Times and Sample Preservation

The analytical holding time constraints for sample preparation/analysis and sample preservation requirements specified in the method (U.S. EPA 2014) were met, excepted as noted below. No discrepancies were identified.

The samples were received at the laboratory on 5/27/2014 at 9:00 AM. The temperature of the cooler at receipt was 17.1 °C. The samples were shipped out on a Friday but they were not received by the laboratory until the next Tuesday (Monday was a holiday). Two amber bottles for sample GW-DA-1-052314 and one amber bottle for sample GW-DA-1-052314-(01) were received broken.

Instrument Performance

The performance of the analytical instruments was acceptable. No changes in instrument performance that would have resulted in the degradation of data quality were indicated during any analysis sequence.

Initial Calibration and Initial Calibration Verification

Initial calibration and initial calibration verification were completed for 2,4-DNT and 2,6-DNT, as required, and the results reported were acceptable on both the primary and confirmational columns. The relative standard deviations (RSDs) of the calibration factors (CFs) were below the method-requirement of ≤ 20 percent.

The purpose of the initial calibration is to establish the linear range of the instrument using at least five calibration standards (an eight point calibration was established for 2,4-DNT and 2,6-DNT in this data set). The initial calibration data are assessed to ensure that the instrument is capable of acceptable performance in the beginning of the analytical run, and of producing a linear calibration curve. A second source standard (i.e., initial calibration verification) was also completed, as required, and the results were acceptable and met applicable recovery limits.

Continuing Calibration Verification

Continuing calibration verification (CCV) was completed for 2,4-DNT and 2,6-DNT, as required, and the results reported were acceptable on both the primary and confirmational columns. In all CCVs, the percent

difference between the CF calculated for a compound in the CCV was within ± 20 percent, as required by SW-846 Method 8000C (U.S. EPA 2014), of the average CF calculated from the initial multi-point calibration curve established. The criterion specified in SW-846 Method 8000C was used during data validation since this is the most up-to-date reference.

The purpose of continuing calibrations is to ensure that acceptable qualitative and quantitative data are generated during the analysis of the samples. As was previously stated, there was incomplete resolution between 2,4-DNT and 2,6-DNT on the primary analysis chromatograms; however, this does not affect the overall quality of the data reported.

Method Blanks

A method blank was analyzed at the required frequency to check for the existence and magnitude of contamination that may have resulted during sample preparation and analysis. No target analytes were reported as detected above the reporting limit.

Accuracy

The accuracy (i.e., bias) of the analytical results is reflected by recoveries of surrogate compounds, LCSs, matrix spikes. Results for these quality control procedures are described below.

Surrogate Compound Recoveries

Surrogate compounds are used to monitor the efficiency of sample extraction and analysis procedures on a sample-specific basis. They are added to all field and quality control samples prior to extraction.

For all sample analyses from which results were reported using the confirmation column, the recovery of the surrogate compound 3,4-DNT was above the upper laboratory-established control limit of 111 percent. The results for all reported detections were, therefore, qualified as estimated (*J*) during data validation. The laboratory noted in the case narrative the recovery exceedances were due to evidence of matrix interference. These qualified results may exhibit a positive bias and the actual concentration may be approximately 9 percent to 19 percent lower than are reported based on the degree of the surrogate recovery exceedances as completed to a recovery of 100 percent.

The surrogate compound recoveries associated with the reported sample data using the confirmation column were as follows:

SUMMARY OF SURROGATE COMPOUND RECOVERIES						
Sample Identifier	Laboratory Sample Number	Chemical	Percent Recovery	Control Limit (percent)	Data Qualifier Assigned	Potential Bias
GW-DA3-060413	320-2826-1	3,4-DNT	119	79 - 111	J	High
GW-DA-3-060413-(01) (a field duplicate)	320-2826-2	3,4-DNT	120	79 - 111	J	High
GW-DA1-060413	320-2826-3	3,4-DNT	130	79 - 111	J	High

Laboratory Control Samples

LCSs (i.e., blanks spikes) provide a control for the entire analytical system, including sample preparation as well as instrumental analysis, and allows for an assessment of accuracy in the absence of potential matrix effects. An LCS must be included with every sample batch for all analyses.

An LCS and LCS duplicate were analyzed at the required frequency. Recoveries for 2,4-DNT were 99 percent and 105 percent and recoveries for 2,6-DNT were 98 percent and 105 percent. The LCS and LCS duplicate recoveries were reported from data acquired using the primary chromatographic column and are within the QC control limits of 70 – 119 percent for 2,4-DNT and 71 – 119 percent for 2,6-DNT.

Matrix Spike Sample

MSs are complete to determine the analytical accuracy for samples in the presence of matrix effects from the study site. MS/MSD samples are required at a frequency of one per batch (20 or fewer samples) for all applicable analyses. For this investigation, only an MS was completed because insufficient sample volume was available due to bottle breakage during sample transport. The absence of the MSD does not affect the overall quality of the data reported.

An MS was analyzed at the required frequency and the recoveries of 2,4-DNT and 2,6-DNT were 99 percent and 133 percent. The MS recoveries were reported from data acquired using the primary chromatographic column. The recovery of 2,4-DNT was within the QC control limits of 70 – 119 percent; however, the recovery of 2,6-DNT was above the QC control limit of 70 – 119 percent. All results reported for 2,6-DNT were qualified for temperature receipt issue and surrogate compound recoveries, so no additional qualification was required.

Precision

An LCS and LCS duplicate completed. A laboratory sample duplicate and MSD could not be completed because insufficient sample volume was available due to bottle breakage during sample transport. The absence of the laboratory sample duplicate and MSD does not affect the overall quality of the data reported. Laboratory precision was evaluated based the LCS and LCS duplicate completed.

The LCS and LCS duplicate results are acceptable.

SUMMARY OF LCS and LCS DUPLICATE RECOVERIES			
Compound	LCS	LCS Duplicate	RPD
2,4-DNT	98 percent	105 percent	6
2,6-DNT	99 percent	105 percent	07

A field duplicate sample was collected and the results are acceptable.

SUMMARY OF FIELD DUPLICATE RESULTS			
Compound	GW-DA1-052314	GW-DA-1-052314-(01)	RPD
2,4-DNT	0.10 ug/L, UJ	0.10 ug/L, UJ	NA
2,6-DNT	0.45 ug/L, J	0.46 ug/L, J	2.2

J – estimated

NA – not applicable

U – undetected

Identification and Quantification

Identification requirements are detailed in SW-846 Methods 8000C and 8330A and involve such factors as retention time matches of peaks chromatographed in the sample to chromatographic peaks generated through analysis of know compounds in standards. Quantification, in part, of analyte concentrations involves calculation of concentrations with respect to standard responses (i.e., CFs); correction for extraction volumes, final extract volumes; and, dilutions (if completed) for each analyte in each sample.

During data validation, all standard, sample, and associated QC chromatograms and quantification reported were reviewed and no qualitative identification errors were identified.

During data validation, all sample and associated QC results were recalculated for 2,4-DNT and 2,6-DNT. The recalculated results matched the results reported by the laboratory. No transcription errors were found during data validation.

The use of two dissimilar columns for chromatographic determinations provides confirmation of analyte identity as well as its concentration. The RPD between the concentrations reported from the two dissimilar chromatographic columns must be less than 40 percent. When this RPD criterion is not met, the laboratory reports the higher of the two results and assigns a "P" laboratory concentration qualifier. Since the dual column RPD criterion was not met for 2,6-DNT for all samples, the results reported as detected for this compound were qualified as estimated (*J*) during data validation.

<<< >>>

This concludes the chemical data quality review (i.e., data validation review). Should you have any questions regarding the information presented herein, please contact me by telephone at 503.763.6948 or by e-mail at jjmcateer@msn.com.

Cordially,



QA/QC Solutions, LLC

James J. Mc Ateer, Jr., Managing Member

References

U.S. EPA 2002. Guidance on Environmental Data Verification and Data Validation. EPA QA/G-8. EPA/240/R-02/004. November 2002. U.S. Environmental Protection Agency, Office of Environmental Information, Washington DC.

U.S. EPA 2014. SW-846 on-line. Test methods for evaluating solid wastes, physical/chemical methods. www.epa.gov/epawaste/hazard/testmethods/sw846/online/index.htm. Accessed on June 26, 2014. Last updated on September 4, 2013. U.S. Environmental Protection Agency, Office of Solid Waste, Washington, DC.

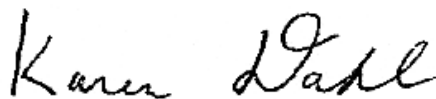
ANALYTICAL REPORT

Job Number: 320-7661-1

Job Description: Weyco Site Annual GWM

For:

Pioneer Technologies Corporation
5205 Corporate Ctr. Ct. SE
Ste A
Olympia, WA 98503
Attention: Stacy Munson



Approved for release.
Karen Dahl
Senior Project Manager
6/16/2014 12:07 PM

Karen Dahl, Senior Project Manager
880 Riverside Parkway, West Sacramento, CA, 95605
(916)374-4384
karen.dahl@testamericainc.com
06/16/2014

cc: Brad Grimsted

The test results in this report relate only to the samples in this report and meet all requirements of NELAP, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Sacramento Project Manager.

TestAmerica Laboratories, Inc.

TestAmerica Sacramento 880 Riverside Parkway, West Sacramento, CA 95605

Tel (916) 373-5600 Fax (916) 372-1059 www.testamericainc.com

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Definitions/Glossary

Client: Pioneer Technologies Corporation
Project/Site: Weyco Site Annual GWM

TestAmerica Job ID: 320-7661-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
X	Surrogate is outside control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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)

Job Narrative
320-7661-1

Comments

No additional comments.

Receipt

The samples were received on 5/27/2014 9:00 AM. The temperature of the cooler at receipt was 17.1° C. The samples were shipped out on a Friday but they were not received by the laboratory until the next Tuesday (Monday was a holiday). Two ambers for sample GW-DA-1-052314 were received broken. One amber for sample GW-DA-1-052314-(01) was received broken.

HPLC

Method(s) 8330-Prep: Per client request a Laboratory Control Sample, a Laboratory Control Sample Duplicate, and a single Matrix Spike (due to limited sample volume) were extracted with this batch.

Method(s) 8330A: The surrogate recovery for the following sample was outside control limits: GW-DA-3-052314 (320-7661-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8330A: The surrogate recovery for all of the samples was outside control limits on the confirmation analysis. Since the surrogate recovery is controlled from the primary analysis, no corrective action was performed.

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

Detection Summary

Client: Pioneer Technologies Corporation
Project/Site: Weyco Site Annual GWM

TestAmerica Job ID: 320-7661-1

Client Sample ID: GW-DA-1-052314

Lab Sample ID: 320-7661-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,6-Dinitrotoluene	0.45	p	0.10		ug/L	1		8330A	Total/NA

Client Sample ID: GW-DA-1-052314-(01)

Lab Sample ID: 320-7661-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,6-Dinitrotoluene	0.46	p	0.10		ug/L	1		8330A	Total/NA

Client Sample ID: GW-DA-3-052314

Lab Sample ID: 320-7661-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,6-Dinitrotoluene	0.43	p	0.10		ug/L	1		8330A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

Client Sample Results

Client: Pioneer Technologies Corporation
 Project/Site: Weyco Site Annual GWM

TestAmerica Job ID: 320-7661-1

Client Sample ID: GW-DA-1-052314

Lab Sample ID: 320-7661-1

Date Collected: 05/23/14 11:30

Matrix: Water

Date Received: 05/27/14 09:00

Method: 8330A - Nitroaromatics and Nitramines

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.10		ug/L		05/28/14 14:06	05/31/14 01:44	1
2,6-Dinitrotoluene	0.45	p	0.10		ug/L		05/28/14 14:06	05/31/14 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
3,4-Dinitrotoluene	119	X	79 - 111				05/28/14 14:06	05/29/14 21:46	1
3,4-Dinitrotoluene	104		79 - 111				05/28/14 14:06	05/31/14 01:44	1

Client Sample ID: GW-DA-1-052314-(01)

Lab Sample ID: 320-7661-2

Date Collected: 05/23/14 11:30

Matrix: Water

Date Received: 05/27/14 09:00

Method: 8330A - Nitroaromatics and Nitramines

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.10		ug/L		05/28/14 14:06	05/31/14 03:37	1
2,6-Dinitrotoluene	0.46	p	0.10		ug/L		05/28/14 14:06	05/31/14 03:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
3,4-Dinitrotoluene	120	X	79 - 111				05/28/14 14:06	05/29/14 22:52	1
3,4-Dinitrotoluene	105		79 - 111				05/28/14 14:06	05/31/14 03:37	1

Client Sample ID: GW-DA-3-052314

Lab Sample ID: 320-7661-3

Date Collected: 05/23/14 13:00

Matrix: Water

Date Received: 05/27/14 09:00

Method: 8330A - Nitroaromatics and Nitramines

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.10		ug/L		05/28/14 14:06	05/31/14 05:30	1
2,6-Dinitrotoluene	0.43	p	0.10		ug/L		05/28/14 14:06	05/31/14 05:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
3,4-Dinitrotoluene	130	X	79 - 111				05/28/14 14:06	05/29/14 23:57	1
3,4-Dinitrotoluene	115	X	79 - 111				05/28/14 14:06	05/31/14 05:30	1

Default Detection Limits

Client: Pioneer Technologies Corporation
Project/Site: Weyco Site Annual GWM

TestAmerica Job ID: 320-7661-1

Method: 8330A - Nitroaromatics and Nitramines

Analyte	RL	MDL	Units	Method
2,4-Dinitrotoluene	0.10	0.050	ug/L	8330A
2,6-Dinitrotoluene	0.10	0.050	ug/L	8330A

Surrogate Summary

Client: Pioneer Technologies Corporation
Project/Site: Weyco Site Annual GWM

TestAmerica Job ID: 320-7661-1

Method: 8330A - Nitroaromatics and Nitramines

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DNT1 (79-111)
320-7661-1	GW-DA-1-052314	119 X
320-7661-1	GW-DA-1-052314	104
320-7661-1 MS	GW-DA-1-052314	109
320-7661-2	GW-DA-1-052314-(01)	120 X
320-7661-2	GW-DA-1-052314-(01)	105
320-7661-3	GW-DA-3-052314	130 X
320-7661-3	GW-DA-3-052314	115 X
LCS 320-43333/2-A	Lab Control Sample	91
LCSD 320-43333/3-A	Lab Control Sample Dup	95
MB 320-43333/1-A	Method Blank	101
MB 320-43333/1-A	Method Blank	92

Surrogate Legend

DNT = 3,4-Dinitrotoluene

QC Sample Results

Client: Pioneer Technologies Corporation
Project/Site: Weyco Site Annual GWM

TestAmerica Job ID: 320-7661-1

Method: 8330A - Nitroaromatics and Nitramines

Lab Sample ID: MB 320-43333/1-A
Matrix: Water
Analysis Batch: 43436

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43333

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
3,4-Dinitrotoluene	101		79 - 111	05/28/14 14:06	05/29/14 20:40	1

Lab Sample ID: MB 320-43333/1-A
Matrix: Water
Analysis Batch: 43521

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43333

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4-Dinitrotoluene	ND		0.10		ug/L		05/28/14 14:06	05/30/14 22:54	1
2,6-Dinitrotoluene	ND		0.10		ug/L		05/28/14 14:06	05/30/14 22:54	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
3,4-Dinitrotoluene	92		79 - 111	05/28/14 14:06	05/30/14 22:54	1

Lab Sample ID: LCS 320-43333/2-A
Matrix: Water
Analysis Batch: 43521

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,6-Dinitrotoluene	1.00	0.979		ug/L	98	71 - 119	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
3,4-Dinitrotoluene	91		79 - 111

Lab Sample ID: LCSD 320-43333/3-A
Matrix: Water
Analysis Batch: 43521

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43333

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
2,4-Dinitrotoluene	1.00	1.05		ug/L		105	70 - 119	6	30
2,6-Dinitrotoluene	1.00	1.05		ug/L		105	71 - 119	7	29

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
3,4-Dinitrotoluene	95		79 - 111

Lab Sample ID: 320-7661-1 MS
Matrix: Water
Analysis Batch: 43521

Client Sample ID: GW-DA-1-052314
Prep Type: Total/NA
Prep Batch: 43333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,6-Dinitrotoluene	0.15		1.01	1.49	F1	ug/L	133	71 - 119	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
3,4-Dinitrotoluene	109		79 - 111

QC Association Summary

Client: Pioneer Technologies Corporation
Project/Site: Weyco Site Annual GWM

TestAmerica Job ID: 320-7661-1

HPLC/IC

Prep Batch: 43333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-7661-1	GW-DA-1-052314	Total/NA	Water	8330-Prep	
320-7661-1 MS	GW-DA-1-052314	Total/NA	Water	8330-Prep	
320-7661-2	GW-DA-1-052314-(01)	Total/NA	Water	8330-Prep	
320-7661-3	GW-DA-3-052314	Total/NA	Water	8330-Prep	
LCS 320-43333/2-A	Lab Control Sample	Total/NA	Water	8330-Prep	
LCSD 320-43333/3-A	Lab Control Sample Dup	Total/NA	Water	8330-Prep	
MB 320-43333/1-A	Method Blank	Total/NA	Water	8330-Prep	

Analysis Batch: 43436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-7661-1	GW-DA-1-052314	Total/NA	Water	8330A	43333
320-7661-2	GW-DA-1-052314-(01)	Total/NA	Water	8330A	43333
320-7661-3	GW-DA-3-052314	Total/NA	Water	8330A	43333
MB 320-43333/1-A	Method Blank	Total/NA	Water	8330A	43333

Analysis Batch: 43521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-7661-1	GW-DA-1-052314	Total/NA	Water	8330A	43333
320-7661-1 MS	GW-DA-1-052314	Total/NA	Water	8330A	43333
320-7661-2	GW-DA-1-052314-(01)	Total/NA	Water	8330A	43333
320-7661-3	GW-DA-3-052314	Total/NA	Water	8330A	43333
LCS 320-43333/2-A	Lab Control Sample	Total/NA	Water	8330A	43333
LCSD 320-43333/3-A	Lab Control Sample Dup	Total/NA	Water	8330A	43333
MB 320-43333/1-A	Method Blank	Total/NA	Water	8330A	43333

Lab Chronicle

Client: Pioneer Technologies Corporation
 Project/Site: Weyco Site Annual GWM

TestAmerica Job ID: 320-7661-1

Client Sample ID: GW-DA-1-052314

Lab Sample ID: 320-7661-1

Date Collected: 05/23/14 11:30

Matrix: Water

Date Received: 05/27/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8330-Prep			43333	05/28/14 14:06	HJA	TAL SAC
Total/NA	Analysis	8330A		1	43521	05/31/14 01:44	TQP	TAL SAC
Total/NA	Prep	8330-Prep			43333	05/28/14 14:06	HJA	TAL SAC
Total/NA	Analysis	8330A		1	43436	05/29/14 21:46	TQP	TAL SAC

Client Sample ID: GW-DA-1-052314-(01)

Lab Sample ID: 320-7661-2

Date Collected: 05/23/14 11:30

Matrix: Water

Date Received: 05/27/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8330-Prep			43333	05/28/14 14:06	HJA	TAL SAC
Total/NA	Analysis	8330A		1	43521	05/31/14 03:37	TQP	TAL SAC
Total/NA	Prep	8330-Prep			43333	05/28/14 14:06	HJA	TAL SAC
Total/NA	Analysis	8330A		1	43436	05/29/14 22:52	TQP	TAL SAC

Client Sample ID: GW-DA-3-052314

Lab Sample ID: 320-7661-3

Date Collected: 05/23/14 13:00

Matrix: Water

Date Received: 05/27/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8330-Prep			43333	05/28/14 14:06	HJA	TAL SAC
Total/NA	Analysis	8330A		1	43521	05/31/14 05:30	TQP	TAL SAC
Total/NA	Prep	8330-Prep			43333	05/28/14 14:06	HJA	TAL SAC
Total/NA	Analysis	8330A		1	43436	05/29/14 23:57	TQP	TAL SAC

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: Pioneer Technologies Corporation
 Project/Site: Weyco Site Annual GWM

TestAmerica Job ID: 320-7661-1

Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-16
Alaska (UST)	State Program	10	UST-055	12-18-13 *
Arizona	State Program	9	AZ0708	08-11-14
Arkansas DEQ	State Program	6	88-0691	06-17-14 *
California	State Program	9	2897	01-31-15
Colorado	State Program	8	N/A	08-31-14
Connecticut	State Program	1	PH-0691	06-30-15
Florida	NELAP	4	E87570	06-30-14
Guam	State Program	9	N/A	08-31-14
Hawaii	State Program	9	N/A	01-29-15
Illinois	NELAP	5	200060	03-17-15
Kansas	NELAP	7	E-10375	10-31-14
Louisiana	NELAP	6	30612	06-30-14
Michigan	State Program	5	9947	01-31-15
Nebraska	State Program	7	NE-OS-22-13	01-29-15
Nevada	State Program	9	CA44	07-31-14
New Jersey	NELAP	2	CA005	06-30-14
New York	NELAP	2	11666	04-01-15
Oregon	NELAP	10	CA200005	01-29-15
Pennsylvania	NELAP	3	9947	03-31-15
South Carolina	State Program	4	87014	06-30-14
Texas	NELAP	6	T104704399-08-TX	05-31-15
US Fish & Wildlife	Federal		LE148388-0	12-31-14
USDA	Federal		P330-11-00436	12-30-14
USEPA UCMR	Federal	1	CA00044	11-06-14
Utah	NELAP	8	QUAN1	02-28-15
Washington	State Program	10	C581	05-05-15
West Virginia DHHR	State Program	3	9930C	12-31-14
Wyoming	State Program	8	8TMS-Q	01-29-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: Pioneer Technologies Corporation
Project/Site: Weyco Site Annual GWM

TestAmerica Job ID: 320-7661-1

Method	Method Description	Protocol	Laboratory
8330A	Nitroaromatics and Nitramines	SW846	TAL SAC

Protocol References:

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

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Pioneer Technologies Corporation
Project/Site: Weyco Site Annual GWM

TestAmerica Job ID: 320-7661-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-7661-1	GW-DA-1-052314	Water	05/23/14 11:30	05/27/14 09:00
320-7661-2	GW-DA-1-052314-(01)	Water	05/23/14 11:30	05/27/14 09:00
320-7661-3	GW-DA-3-052314	Water	05/23/14 13:00	05/27/14 09:00

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1

SDG No.: _____

Instrument ID: LC11 Analysis Batch Number: 43369

Lab Sample ID: STD2 320-43369/5 IC Client Sample ID: _____

Date Analyzed: 05/29/14 15:06 Lab File ID: ZC000005.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	40.96	Baseline	phant	05/30/14 10:29

Lab Sample ID: STD3 320-43369/6 IC Client Sample ID: _____

Date Analyzed: 05/29/14 16:03 Lab File ID: ZC000006.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	40.94	Baseline	phant	05/30/14 10:29

Lab Sample ID: STD4 320-43369/7 IC Client Sample ID: _____

Date Analyzed: 05/29/14 17:00 Lab File ID: ZC000007.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	40.96	Baseline	phant	05/30/14 10:30

Lab Sample ID: STD5 320-43369/8 IC Client Sample ID: _____

Date Analyzed: 05/29/14 17:56 Lab File ID: ZC000008.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	40.94	Baseline	phant	05/30/14 10:30

Lab Sample ID: STD6 320-43369/9 IC Client Sample ID: _____

Date Analyzed: 05/29/14 18:53 Lab File ID: ZC000009.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	40.94	Baseline	phant	05/30/14 10:36

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1

SDG No.: _____

Instrument ID: LC11 Analysis Batch Number: 43369

Lab Sample ID: STD7 320-43369/10 IC Client Sample ID: _____

Date Analyzed: 05/29/14 19:50 Lab File ID: ZC000010.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	40.94	Baseline	phant	05/30/14 10:36

Lab Sample ID: STD8 320-43369/11 IC Client Sample ID: _____

Date Analyzed: 05/29/14 20:46 Lab File ID: ZC000011.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	40.93	Baseline	phant	05/30/14 10:31

Lab Sample ID: ICV 320-43369/13 Client Sample ID: _____

Date Analyzed: 05/29/14 22:39 Lab File ID: ZC000013.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	40.94	Baseline	phant	05/30/14 10:32

Lab Sample ID: LODV 320-43369/14 Client Sample ID: _____

Date Analyzed: 05/29/14 23:36 Lab File ID: ZC000014.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	40.93	Baseline	phant	05/30/14 10:32

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1

SDG No.: _____

Instrument ID: LC11 Analysis Batch Number: 43521

Lab Sample ID: CCV 320-43521/4 CCVRT Client Sample ID: _____

Date Analyzed: 05/30/14 19:08 Lab File ID: ZD000004.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	40.92	Baseline	phant	06/02/14 07:47

Lab Sample ID: 320-7661-1 Client Sample ID: GW-DA-1-052314

Date Analyzed: 05/31/14 01:44 Lab File ID: ZD000011.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,4-Dinitrotoluene	32.67	Split Peak	phant	06/02/14 07:42

Lab Sample ID: 320-7661-2 Client Sample ID: GW-DA-1-052314-(01)

Date Analyzed: 05/31/14 03:37 Lab File ID: ZD000013.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,4-Dinitrotoluene	32.67	Split Peak	phant	06/02/14 07:44

Lab Sample ID: CCV 320-43521/14 CCVRT Client Sample ID: _____

Date Analyzed: 05/31/14 04:34 Lab File ID: ZD000014.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	40.91	Baseline	phant	06/02/14 07:45

Lab Sample ID: 320-7661-3 Client Sample ID: GW-DA-3-052314

Date Analyzed: 05/31/14 05:30 Lab File ID: ZD000015.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,4-Dinitrotoluene	32.66	Split Peak	phant	06/02/14 07:45

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1

SDG No.: _____

Instrument ID: LC11 Analysis Batch Number: 43521

Lab Sample ID: CCV 320-43521/16 CCVRT Client Sample ID: _____

Date Analyzed: 05/31/14 06:27 Lab File ID: ZD000016.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	40.89	Baseline	phant	06/02/14 07:46

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1

SDG No.: _____

Instrument ID: LC12 Analysis Batch Number: 42409

Lab Sample ID: STD01 320-42409/4 IC Client Sample ID: _____

Date Analyzed: 05/15/14 12:57 Lab File ID: O000004.D GC Column: Zorbax CN ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trinitrobenzene	28.70	Baseline	phant	05/16/14 09:17
2-Nitrotoluene	29.88	Baseline	phant	05/16/14 09:17
4-Nitrotoluene	29.88	Baseline	phant	05/16/14 09:17
3-Nitrotoluene	30.48	Baseline	phant	05/16/14 09:17
3,5-Dinitroaniline	32.23	Baseline	phant	05/16/14 09:17
RDX	32.90	Baseline	phant	05/16/14 09:17
2,4-Dinitrotoluene	33.73	Baseline	phant	05/16/14 09:17
2,6-Dinitrotoluene	34.74	Baseline	phant	05/16/14 09:17
Nitroglycerin	45.27	Baseline	phant	05/16/14 09:17
PETN	53.14	Baseline	phant	05/16/14 09:17

Lab Sample ID: STD02 320-42409/5 IC Client Sample ID: _____

Date Analyzed: 05/15/14 14:03 Lab File ID: O000005.D GC Column: Zorbax CN ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	45.17	Baseline	phant	05/16/14 09:18
PETN	53.08	Baseline	phant	05/16/14 09:18

Lab Sample ID: STD03 320-42409/6 IC Client Sample ID: _____

Date Analyzed: 05/15/14 15:08 Lab File ID: O000006.D GC Column: Zorbax CN ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	53.08	Baseline	phant	05/16/14 08:58

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1

SDG No.: _____

Instrument ID: LC12 Analysis Batch Number: 42409

Lab Sample ID: STD04 320-42409/7 IC Client Sample ID: _____

Date Analyzed: 05/15/14 16:14 Lab File ID: O000007.D GC Column: Zorbax CN ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	53.07	Baseline	phant	05/16/14 08:59

Lab Sample ID: STD05 320-42409/8 IC Client Sample ID: _____

Date Analyzed: 05/15/14 17:19 Lab File ID: O000008.D GC Column: Zorbax CN ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4,6-Trinitrotoluene	41.00	Incomplete Integration	phant	05/16/14 08:52
PETN	53.07	Baseline	phant	05/16/14 08:59

Lab Sample ID: STD06 320-42409/9 IC Client Sample ID: _____

Date Analyzed: 05/15/14 18:25 Lab File ID: O000009.D GC Column: Zorbax CN ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	53.07	Baseline	phant	05/16/14 09:00

Lab Sample ID: STD07 320-42409/10 IC Client Sample ID: _____

Date Analyzed: 05/15/14 19:30 Lab File ID: O000010.D GC Column: Zorbax CN ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	53.07	Baseline	phant	05/16/14 09:00

Lab Sample ID: STD08 320-42409/11 IC Client Sample ID: _____

Date Analyzed: 05/15/14 20:36 Lab File ID: O000011.D GC Column: Zorbax CN ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	53.07	Baseline	phant	05/16/14 09:01

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1

SDG No.: _____

Instrument ID: LC12 Analysis Batch Number: 42409

Lab Sample ID: ICV 320-42409/13 Client Sample ID: _____

Date Analyzed: 05/15/14 22:47 Lab File ID: O000013.D GC Column: Zorbax CN ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	53.07	Baseline	phant	05/16/14 09:22

Lab Sample ID: LODV 320-42409/14 Client Sample ID: _____

Date Analyzed: 05/15/14 23:53 Lab File ID: O000014.D GC Column: Zorbax CN ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	45.17	Baseline	phant	05/16/14 09:23
PETN	53.07	Baseline	phant	05/16/14 09:23

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1

SDG No.: _____

Instrument ID: LC12 Analysis Batch Number: 43436

Lab Sample ID: MB 320-43333/1-A Client Sample ID: _____

Date Analyzed: 05/29/14 20:40 Lab File ID: ZC000006.D GC Column: Zorbax CN ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dinitrotoluene	33.39	Baseline	phant	06/02/14 14:20

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
HP34DNTSU_00025	10/09/14	04/09/14	Acetonitrile, Lot Acetonitrle 00006	25 mL	HP8330SU_00022	1.25 mL	3,4-Dinitrotoluene	50 ug/mL
.HP8330SU_00022	05/01/18		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
HP8330IC_00016	10/07/14	05/14/14	25% 0.1%HOAc in ACN, Lot 4967-043D	10 mL	HP8330TA_00016	25 uL	2,4-Dinitrotoluene	500 ng/mL
.HP8330TA_00016	10/18/14		Cerilliant, Lot ER083011-01		(Purchased Reagent)		2,6-Dinitrotoluene	500 ng/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
HP8330ICL_00014	10/07/14	05/07/14	25:75 HOAc/ACN, Lot 4967-043E	50 mL	HP34DNTSU_00025	5 uL	3,4-Dinitrotoluene	5 ng/mL
					HP8330SP_00033	5 uL	2,4-Dinitrotoluene	5 ng/mL
.HP34DNTSU_00025	10/09/14	04/09/14	Acetonitrile, Lot Acetonitrle 00006	25 mL	HP8330SU_00022	1.25 mL	2,6-Dinitrotoluene	5 ng/mL
..HP8330SU_00022	05/01/18		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	50 ug/mL
.HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP8330TA_00025	0.5 mL	3,4-Dinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
..HP8330TA_00025	11/30/17		Restek, Lot A0102389		(Purchased Reagent)		2,6-Dinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
HP8330ICL_00015	10/07/14	05/16/14	25:75 HOAc/ACN, Lot 4967-043E	50 mL	HP34DNTSU_00025	5 uL	3,4-Dinitrotoluene	5 ng/mL
					HP8330SP_00033	5 uL	2,4-Dinitrotoluene	5 ng/mL
.HP34DNTSU_00025	10/09/14	04/09/14	Acetonitrile, Lot Acetonitrle 00006	25 mL	HP8330SU_00022	1.25 mL	2,6-Dinitrotoluene	5 ng/mL
..HP8330SU_00022	05/01/18		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	50 ug/mL
.HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP8330TA_00025	0.5 mL	3,4-Dinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
..HP8330TA_00025	11/30/17		Restek, Lot A0102389		(Purchased Reagent)		2,6-Dinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
HP8330L1_00014	10/07/14	04/02/14	25% 0.1%HoAc in ACN, Lot 4967-037D	10 mL	HP8330L5_00026	500 uL	3,4-Dinitrotoluene	5 ng/mL
							3,5-Dinitroaniline	5 ng/mL
							1,3,5-Trinitrobenzene	5 ng/mL
							1,3-Dinitrobenzene	5 ng/mL
							2,4,6-Trinitrotoluene	5 ng/mL
							2,4-Dinitrotoluene	5 ng/mL
							2,6-Dinitrotoluene	5 ng/mL
							2-Amino-4,6-dinitrotoluene	5 ng/mL
							4-Amino-2,6-dinitrotoluene	5 ng/mL
							HMX	5 ng/mL
							m-Nitrotoluene	5 ng/mL
							Nitrobenzene	5 ng/mL
							o-Nitrotoluene	5 ng/mL
							p-Nitrotoluene	5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							RDX	5 ng/mL
							Tetryl	5 ng/mL
							Ethylene glycol dinitrate	5 ng/mL
							Nitroglycerin	5 ng/mL
							PETN	5 ng/mL
							2,4,6-Trinitrophenol	10 ng/mL
.HP8330L5_00026	10/07/14	05/14/14	25% 0.1%HoAc in ACN, Lot 4967-043D	200 mL	HP34DNTSU_00025	400 uL	3,4-Dinitrotoluene	100 ng/mL
					HP8330SP_00033	400 uL	3,5-Dinitroaniline	100 ng/mL
							1,3,5-Trinitrobenzene	100 ng/mL
							1,3-Dinitrobenzene	100 ng/mL
							2,4,6-Trinitrotoluene	100 ng/mL
							2,4-Dinitrotoluene	100 ng/mL
							2,6-Dinitrotoluene	100 ng/mL
							2-Amino-4,6-dinitrotoluene	100 ng/mL
							4-Amino-2,6-dinitrotoluene	100 ng/mL
							HMX	100 ng/mL
							m-Nitrotoluene	100 ng/mL
							Nitrobenzene	100 ng/mL
							o-Nitrotoluene	100 ng/mL
							p-Nitrotoluene	100 ng/mL
							RDX	100 ng/mL
							Tetryl	100 ng/mL
					HPEGDNSP_00015	400 uL	Ethylene glycol dinitrate	100 ng/mL
					HPNGPETNSP_00017	400 uL	Nitroglycerin	100 ng/mL
							PETN	100 ng/mL
					HPPASP_00018	800 uL	2,4,6-Trinitrophenol	200 ng/mL
..HP34DNTSU_00025	10/09/14	04/09/14	Acetonitrile, Lot Acetonitrile 00006	25 mL	HP8330SU_00022	1.25 mL	3,4-Dinitrotoluene	50 ug/mL
...HP8330SU_00022	05/01/18		Restek, Lot A095548				(Purchased Reagent)	3,4-Dinitrotoluene
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP35DNATA_00024	0.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00025	0.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							HMX	50 ug/mL
							m-Nitrotoluene	50 ug/mL
							Nitrobenzene	50 ug/mL
							o-Nitrotoluene	50 ug/mL
							p-Nitrotoluene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
...HP35DNATA_00024	07/01/18		Restek, Lot A098374				(Purchased Reagent)	3,5-Dinitroaniline
...HP8330TA_00025	11/30/17		Restek, Lot A0102389				(Purchased Reagent)	1,3,5-Trinitrobenzene

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							m-Nitrotoluene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Nitrotoluene	1000 ug/mL
							p-Nitrotoluene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
..HPEGDNSP_00015	11/07/14	05/07/14	Acetonitrile, Lot Acetonitrile 00007	25 mL	HPEGDNNTA_00012	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNNTA_00012	09/07/18		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
..HPNGPETNSP_00017	10/16/14	04/16/14	Methanol, Lot 0000042259	10 mL	HPNGTA_00025	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00023	500 uL	PETN	50 ug/mL
...HPNGTA_00025	07/31/18		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
...HPPETNTA_00023	04/30/18		Restek, Lot A094839		(Purchased Reagent)		PETN	1000 ug/mL
..HPPASP_00018	10/22/14	04/22/14	Acetonitrile, Lot Acetonitrile 00007	10 mL	HPPATA_00015	0.5 mL	2,4,6-Trinitrophenol	50 ug/mL
...HPPATA_00015	03/22/19		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L1_00015	10/07/14	05/16/14	25% 0.1%HoAc in ACN, Lot 4967-043D	10 mL	HP8330L4_00015	1 mL	3,4-Dinitrotoluene	5 ng/mL
							3,5-Dinitroaniline	5 ng/mL
							1,3,5-Trinitrobenzene	5 ng/mL
							1,3-Dinitrobenzene	5 ng/mL
							2,4,6-Trinitrotoluene	5 ng/mL
							2,4-Dinitrotoluene	5 ng/mL
							2,6-Dinitrotoluene	5 ng/mL
							2-Amino-4,6-dinitrotoluene	5 ng/mL
							4-Amino-2,6-dinitrotoluene	5 ng/mL
							HMX	5 ng/mL
							m-Nitrotoluene	5 ng/mL
							Nitrobenzene	5 ng/mL
							o-Nitrotoluene	5 ng/mL
							p-Nitrotoluene	5 ng/mL
							RDX	5 ng/mL
							Tetryl	5 ng/mL
							Nitroglycerin	5 ng/mL
							PETN	5 ng/mL
							2,4,6-Trinitrophenol	10 ng/mL
.HP8330L4_00015	10/07/14	05/14/14	25% 0.1%HoAc in ACN, Lot 4967-043D	50 mL	HP34DNNTSU_00025	50 uL	3,4-Dinitrotoluene	50 ng/mL
					HP8330SP_00033	50 uL	3,5-Dinitroaniline	50 ng/mL
							1,3,5-Trinitrobenzene	50 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
							1,3-Dinitrobenzene	50 ng/mL	
							2,4,6-Trinitrotoluene	50 ng/mL	
							2,4-Dinitrotoluene	50 ng/mL	
							2,6-Dinitrotoluene	50 ng/mL	
							2-Amino-4,6-dinitrotoluene	50 ng/mL	
							4-Amino-2,6-dinitrotoluene	50 ng/mL	
							HMX	50 ng/mL	
							m-Nitrotoluene	50 ng/mL	
							Nitrobenzene	50 ng/mL	
							o-Nitrotoluene	50 ng/mL	
							p-Nitrotoluene	50 ng/mL	
							RDX	50 ng/mL	
							Tetryl	50 ng/mL	
					HPNGPETNSP_00017	50 uL	Nitroglycerin	50 ng/mL	
							PETN	50 ng/mL	
..HP34DNTSU_00025	10/09/14	04/09/14	Acetonitrile, Lot Acetonitrile 00006	25 mL	HPPASP_00018	100 uL	2,4,6-Trinitrophenol	100 ng/mL	
..HP34DNTSU_00025	10/09/14	04/09/14	Acetonitrile, Lot Acetonitrile 00006	25 mL	HP8330SU_00022	1.25 mL	3,4-Dinitrotoluene	50 ug/mL	
...HP8330SU_00022	05/01/18		Restek, Lot A095548				(Purchased Reagent)	3,4-Dinitrotoluene	1000 ug/mL
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP35DNATA_00024	0.5 mL	3,5-Dinitroaniline	50 ug/mL	
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP8330TA_00025	0.5 mL	1,3,5-Trinitrobenzene	50 ug/mL	
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP8330TA_00025	0.5 mL	1,3-Dinitrobenzene	50 ug/mL	
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP8330TA_00025	0.5 mL	2,4,6-Trinitrotoluene	50 ug/mL	
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP8330TA_00025	0.5 mL	2,4-Dinitrotoluene	50 ug/mL	
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP8330TA_00025	0.5 mL	2,6-Dinitrotoluene	50 ug/mL	
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP8330TA_00025	0.5 mL	2-Amino-4,6-dinitrotoluene	50 ug/mL	
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP8330TA_00025	0.5 mL	4-Amino-2,6-dinitrotoluene	50 ug/mL	
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP8330TA_00025	0.5 mL	HMX	50 ug/mL	
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP8330TA_00025	0.5 mL	m-Nitrotoluene	50 ug/mL	
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP8330TA_00025	0.5 mL	Nitrobenzene	50 ug/mL	
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP8330TA_00025	0.5 mL	o-Nitrotoluene	50 ug/mL	
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP8330TA_00025	0.5 mL	p-Nitrotoluene	50 ug/mL	
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP8330TA_00025	0.5 mL	RDX	50 ug/mL	
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP8330TA_00025	0.5 mL	Tetryl	50 ug/mL	
...HP35DNATA_00024	07/01/18		Restek, Lot A098374				(Purchased Reagent)	3,5-Dinitroaniline	1000 ug/mL
...HP8330TA_00025	11/30/17		Restek, Lot A0102389				(Purchased Reagent)	1,3,5-Trinitrobenzene	1000 ug/mL
...HP8330TA_00025	11/30/17		Restek, Lot A0102389				(Purchased Reagent)	1,3-Dinitrobenzene	1000 ug/mL
...HP8330TA_00025	11/30/17		Restek, Lot A0102389				(Purchased Reagent)	2,4,6-Trinitrotoluene	1000 ug/mL
...HP8330TA_00025	11/30/17		Restek, Lot A0102389				(Purchased Reagent)	2,4-Dinitrotoluene	1000 ug/mL
...HP8330TA_00025	11/30/17		Restek, Lot A0102389				(Purchased Reagent)	2,6-Dinitrotoluene	1000 ug/mL
...HP8330TA_00025	11/30/17		Restek, Lot A0102389				(Purchased Reagent)	2-Amino-4,6-dinitrotoluene	1000 ug/mL
...HP8330TA_00025	11/30/17		Restek, Lot A0102389				(Purchased Reagent)	4-Amino-2,6-dinitrotoluene	1000 ug/mL
...HP8330TA_00025	11/30/17		Restek, Lot A0102389				(Purchased Reagent)	HMX	1000 ug/mL
...HP8330TA_00025	11/30/17		Restek, Lot A0102389				(Purchased Reagent)	m-Nitrotoluene	1000 ug/mL
...HP8330TA_00025	11/30/17		Restek, Lot A0102389				(Purchased Reagent)	Nitrobenzene	1000 ug/mL
...HP8330TA_00025	11/30/17		Restek, Lot A0102389				(Purchased Reagent)	o-Nitrotoluene	1000 ug/mL
...HP8330TA_00025	11/30/17		Restek, Lot A0102389				(Purchased Reagent)	p-Nitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
							RDX	1000 ug/mL	
							Tetryl	1000 ug/mL	
..HPNGPETNSP_00017	10/16/14	04/16/14	Methanol, Lot 0000042259	10 mL	HPNGTA_00025	500 uL	Nitroglycerin	50 ug/mL	
...HPNGTA_00025	07/31/18		Restek, Lot A096573		HPPETNTA_00023	500 uL	PETN	50 ug/mL	
...HPPETNTA_00023	04/30/18		Restek, Lot A094839				(Purchased Reagent)	Nitroglycerin	1000 ug/mL
..HPPASP_00018	10/22/14	04/22/14	Acetonitrile, Lot Acetonitrile 00007	10 mL	HPPATA_00015	0.5 mL	2,4,6-Trinitrophenol	50 ug/mL	
...HPPATA_00015	03/22/19		restek, Lot A0101731				(Purchased Reagent)	2,4,6-Trinitrophenol	1000 ug/mL
HP8330L2_00010	10/07/14	05/14/14	25% 0.1%HoAc in ACN, Lot 4967-043D	50 mL	HP34DNSTU_00025	10 uL	3,4-Dinitrotoluene	10 ng/mL	
					HP8330SP_00033	10 uL	3,5-Dinitroaniline	10 ng/mL	
							1,3,5-Trinitrobenzene	10 ng/mL	
							1,3-Dinitrobenzene	10 ng/mL	
							2,4,6-Trinitrotoluene	10 ng/mL	
							2,4-Dinitrotoluene	10 ng/mL	
							2,6-Dinitrotoluene	10 ng/mL	
							2-Amino-4,6-dinitrotoluene	10 ng/mL	
							4-Amino-2,6-dinitrotoluene	10 ng/mL	
							HMX	10 ng/mL	
							m-Nitrotoluene	10 ng/mL	
							Nitrobenzene	10 ng/mL	
							o-Nitrotoluene	10 ng/mL	
							p-Nitrotoluene	10 ng/mL	
							RDX	10 ng/mL	
							Tetryl	10 ng/mL	
					HPEGDNSTU_00015	10 uL	Ethylene glycol dinitrate	10 ng/mL	
					HPNGPETNSP_00017	10 uL	Nitroglycerin	10 ng/mL	
							PETN	10 ng/mL	
					HPPASP_00018	20 uL	2,4,6-Trinitrophenol	20 ng/mL	
.HP34DNSTU_00025	10/09/14	04/09/14	Acetonitrile, Lot Acetonitrile 00006	25 mL	HP8330SU_00022	1.25 mL	3,4-Dinitrotoluene	50 ug/mL	
..HP8330SU_00022	05/01/18		Restek, Lot A095548				(Purchased Reagent)	3,4-Dinitrotoluene	1000 ug/mL
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP35DNATA_00024	0.5 mL	3,5-Dinitroaniline	50 ug/mL	
					HP8330TA_00025	0.5 mL	1,3,5-Trinitrobenzene	50 ug/mL	
							1,3-Dinitrobenzene	50 ug/mL	
							2,4,6-Trinitrotoluene	50 ug/mL	
							2,4-Dinitrotoluene	50 ug/mL	
							2,6-Dinitrotoluene	50 ug/mL	
							2-Amino-4,6-dinitrotoluene	50 ug/mL	
							4-Amino-2,6-dinitrotoluene	50 ug/mL	
							HMX	50 ug/mL	
							m-Nitrotoluene	50 ug/mL	
							Nitrobenzene	50 ug/mL	
							o-Nitrotoluene	50 ug/mL	
							p-Nitrotoluene	50 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00024	07/01/18		Restek, Lot A098374			(Purchased Reagent)	3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00025	11/30/17		Restek, Lot A0102389			(Purchased Reagent)	1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							m-Nitrotoluene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Nitrotoluene	1000 ug/mL
							p-Nitrotoluene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00015	11/07/14	05/07/14	Acetonitrile, Lot Acetonitrile 00007	25 mL	HPEGDNATA_00012	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNATA_00012	09/07/18		Restek, Lot A097821			(Purchased Reagent)	Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00017	10/16/14	04/16/14	Methanol, Lot 0000042259	10 mL	HPNGTA_00025	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00023	500 uL	PETN	50 ug/mL
..HPNGTA_00025	07/31/18		Restek, Lot A096573			(Purchased Reagent)	Nitroglycerin	1000 ug/mL
..HPPETNTA_00023	04/30/18		Restek, Lot A094839			(Purchased Reagent)	PETN	1000 ug/mL
.HPPASP_00018	10/22/14	04/22/14	Acetonitrile, Lot Acetonitrile 00007	10 mL	HPPATA_00015	0.5 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00015	03/22/19		restek, Lot A0101731			(Purchased Reagent)	2,4,6-Trinitrophenol	1000 ug/mL
HP8330L3_00010	10/07/14	05/14/14	25% 0.1%HoAC in ACN, Lot 4967-037D	50 mL	HP34DNATSU_00025	20 uL	3,4-Dinitrotoluene	20 ng/mL
					HP8330SP_00033	20 uL	3,5-Dinitroaniline	20 ng/mL
							1,3,5-Trinitrobenzene	20 ng/mL
							1,3-Dinitrobenzene	20 ng/mL
							2,4,6-Trinitrotoluene	20 ng/mL
							2,4-Dinitrotoluene	20 ng/mL
							2,6-Dinitrotoluene	20 ng/mL
							2-Amino-4,6-dinitrotoluene	20 ng/mL
							4-Amino-2,6-dinitrotoluene	20 ng/mL
							HMX	20 ng/mL
							m-Nitrotoluene	20 ng/mL
							Nitrobenzene	20 ng/mL
							o-Nitrotoluene	20 ng/mL
							p-Nitrotoluene	20 ng/mL
							RDX	20 ng/mL
							Tetryl	20 ng/mL
					HPEGDNSP_00015	20 uL	Ethylene glycol dinitrate	20 ng/mL
					HPNGPETNSP_00017	20 uL	Nitroglycerin	20 ng/mL
							PETN	20 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.HP34DNTSU_00025	10/09/14	04/09/14	Acetonitrile, Lot Acetonitrile 00006	25 mL	HPPASP_00018	50 uL	2,4,6-Trinitrophenol	50 ng/mL
..HP8330SU_00022	05/01/18		Restek, Lot A095548		HP8330SU_00022	1.25 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
					HP35DNATA_00024	0.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00025	0.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							HMX	50 ug/mL
							m-Nitrotoluene	50 ug/mL
							Nitrobenzene	50 ug/mL
							o-Nitrotoluene	50 ug/mL
							p-Nitrotoluene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00024	07/01/18		Restek, Lot A098374		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00025	11/30/17		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							m-Nitrotoluene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Nitrotoluene	1000 ug/mL
							p-Nitrotoluene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNTP_00015	11/07/14	05/07/14	Acetonitrile, Lot Acetonitrile 00007	25 mL	HPEGDNTP_00012	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTP_00012	09/07/18		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
..HPNGPETNSP_00017	10/16/14	04/16/14	Methanol, Lot 0000042259	10 mL	HPNGTA_00025	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00023	500 uL	PETN	50 ug/mL
..HPNGTA_00025	07/31/18		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00023	04/30/18		Restek, Lot A094839		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00018	10/22/14	04/22/14	Acetonitrile, Lot Acetonitrile 00007	10 mL	HPPATA_00015	0.5 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00015	03/22/19		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L3_00011	10/07/14	05/16/14	25% 0.1%HoAc in ACN, Lot 4967-037D	50 mL	HP34DNTSU_00025	20 uL	3,4-Dinitrotoluene	20 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
						20 uL	3,5-Dinitroaniline	20 ng/mL
							1,3,5-Trinitrobenzene	20 ng/mL
							1,3-Dinitrobenzene	20 ng/mL
							2,4,6-Trinitrotoluene	20 ng/mL
							2,4-Dinitrotoluene	20 ng/mL
							2,6-Dinitrotoluene	20 ng/mL
							2-Amino-4,6-dinitrotoluene	20 ng/mL
							4-Amino-2,6-dinitrotoluene	20 ng/mL
							HMX	20 ng/mL
							m-Nitrotoluene	20 ng/mL
							Nitrobenzene	20 ng/mL
							o-Nitrotoluene	20 ng/mL
							p-Nitrotoluene	20 ng/mL
							RDX	20 ng/mL
							Tetryl	20 ng/mL
						20 uL	Nitroglycerin	20 ng/mL
							PETN	20 ng/mL
						50 uL	2,4,6-Trinitrophenol	50 ng/mL
.HP34DNDSU_00025	10/09/14	04/09/14	Acetonitrile, Lot Acetonitrle 00006	25 mL	HP8330SU_00022	1.25 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00022	05/01/18		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP35DNATA_00024	0.5 mL	3,5-Dinitroaniline	50 ug/mL
						0.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							HMX	50 ug/mL
							m-Nitrotoluene	50 ug/mL
							Nitrobenzene	50 ug/mL
							o-Nitrotoluene	50 ug/mL
							p-Nitrotoluene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00024	07/01/18		Restek, Lot A098374		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00025	11/30/17		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							m-Nitrotoluene	1000 ug/mL
							Nitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Nitrotoluene	1000 ug/mL
							p-Nitrotoluene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGPETNSP_00017	10/16/14	04/16/14	Methanol, Lot 0000042259	10 mL	HPNGTA_00025	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00023	500 uL	PETN	50 ug/mL
..HPNGTA_00025	07/31/18		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00023	04/30/18		Restek, Lot A094839		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00018	10/22/14	04/22/14	Acetonitrile, Lot Acetonitrile 00007	10 mL	HPPATA_00015	0.5 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00015	03/22/19		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L4_00015	10/07/14	05/14/14	25% 0.1%HoAc in ACN, Lot 4967-043D	50 mL	HP34DNTSU_00025	50 uL	3,4-Dinitrotoluene	50 ng/mL
					HP8330SP_00033	50 uL	3,5-Dinitroaniline	50 ng/mL
							1,3,5-Trinitrobenzene	50 ng/mL
							1,3-Dinitrobenzene	50 ng/mL
							2,4,6-Trinitrotoluene	50 ng/mL
							2,4-Dinitrotoluene	50 ng/mL
							2,6-Dinitrotoluene	50 ng/mL
							2-Amino-4,6-dinitrotoluene	50 ng/mL
							4-Amino-2,6-dinitrotoluene	50 ng/mL
							HMX	50 ng/mL
							m-Nitrotoluene	50 ng/mL
							Nitrobenzene	50 ng/mL
							o-Nitrotoluene	50 ng/mL
							p-Nitrotoluene	50 ng/mL
							RDX	50 ng/mL
							Tetryl	50 ng/mL
					HPEGDNSP_00015	50 uL	Ethylene glycol dinitrate	50 ng/mL
					HPNGPETNSP_00017	50 uL	Nitroglycerin	50 ng/mL
							PETN	50 ng/mL
					HPPASP_00018	100 uL	2,4,6-Trinitrophenol	100 ng/mL
.HP34DNTSU_00025	10/09/14	04/09/14	Acetonitrile, Lot Acetonitrile 00006	25 mL	HP8330SU_00022	1.25 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00022	05/01/18		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP35DNATA_00024	0.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00025	0.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							HMX	50 ug/mL
							m-Nitrotoluene	50 ug/mL
							Nitrobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Nitrotoluene	50 ug/mL
							p-Nitrotoluene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00024	07/01/18		Restek, Lot A098374			(Purchased Reagent)	3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00025	11/30/17		Restek, Lot A0102389			(Purchased Reagent)	1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							m-Nitrotoluene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Nitrotoluene	1000 ug/mL
							p-Nitrotoluene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNBP_00015	11/07/14	05/07/14	Acetonitrile, Lot Acetonitrile 00007	25 mL	HPEGDNBP_00012	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNBP_00012	09/07/18		Restek, Lot A097821			(Purchased Reagent)	Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00017	10/16/14	04/16/14	Methanol, Lot 0000042259	10 mL	HPNGTA_00025	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00023	500 uL	PETN	50 ug/mL
..HPNGTA_00025	07/31/18		Restek, Lot A096573			(Purchased Reagent)	Nitroglycerin	1000 ug/mL
..HPPETNTA_00023	04/30/18		Restek, Lot A094839			(Purchased Reagent)	PETN	1000 ug/mL
.HPPASP_00018	10/22/14	04/22/14	Acetonitrile, Lot Acetonitrile 00007	10 mL	HPPATA_00015	0.5 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00015	03/22/19		restek, Lot A0101731			(Purchased Reagent)	2,4,6-Trinitrophenol	1000 ug/mL
HP8330L5_00026	10/07/14	05/14/14	25% 0.1%HoAC in ACN, Lot 4967-043D	200 mL	HP34DNTPSU_00025	400 uL	3,4-Dinitrotoluene	100 ng/mL
					HP8330SP_00033	400 uL	3,5-Dinitroaniline	100 ng/mL
							1,3,5-Trinitrobenzene	100 ng/mL
							1,3-Dinitrobenzene	100 ng/mL
							2,4,6-Trinitrotoluene	100 ng/mL
							2,4-Dinitrotoluene	100 ng/mL
							2,6-Dinitrotoluene	100 ng/mL
							2-Amino-4,6-dinitrotoluene	100 ng/mL
							4-Amino-2,6-dinitrotoluene	100 ng/mL
							HMX	100 ng/mL
							m-Nitrotoluene	100 ng/mL
							Nitrobenzene	100 ng/mL
							o-Nitrotoluene	100 ng/mL
							p-Nitrotoluene	100 ng/mL
							RDX	100 ng/mL
							Tetryl	100 ng/mL
					HPEGDNBP_00015	400 uL	Ethylene glycol dinitrate	100 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					HPNGPETNSP_00017	400 uL	Nitroglycerin	100 ng/mL
							PETN	100 ng/mL
.HP34DNSTU_00025	10/09/14	04/09/14	Acetonitrile, Lot Acetonitrile 00006	25 mL	HPPASP_00018	800 uL	2,4,6-Trinitrophenol	200 ng/mL
					HP8330SU_00022	1.25 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00022	05/01/18		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP35DNATA_00024	0.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00025	0.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							HMX	50 ug/mL
							m-Nitrotoluene	50 ug/mL
							Nitrobenzene	50 ug/mL
							o-Nitrotoluene	50 ug/mL
							p-Nitrotoluene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00024	07/01/18		Restek, Lot A098374		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00025	11/30/17		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							m-Nitrotoluene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Nitrotoluene	1000 ug/mL
							p-Nitrotoluene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSTU_00015	11/07/14	05/07/14	Acetonitrile, Lot Acetonitrile 00007	25 mL	HPEGDNATA_00012	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNATA_00012	09/07/18		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00017	10/16/14	04/16/14	Methanol, Lot 0000042259	10 mL	HPNGTA_00025	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00023	500 uL	PETN	50 ug/mL
..HPNGTA_00025	07/31/18		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00023	04/30/18		Restek, Lot A094839		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00018	10/22/14	04/22/14	Acetonitrile, Lot Acetonitrile 00007	10 mL	HPPATA_00015	0.5 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00015	03/22/19		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
HP8330L6_00022	10/07/14	05/14/14	25% 0.1%HoAC in ACN, Lot 4967-0043D	100 mL	HP34DNDSU_00025	400 uL	3,4-Dinitrotoluene	200 ng/mL
					HP8330SP_00033	400 uL	3,5-Dinitroaniline	200 ng/mL
							1,3,5-Trinitrobenzene	200 ng/mL
							1,3-Dinitrobenzene	200 ng/mL
							2,4,6-Trinitrotoluene	200 ng/mL
							2,4-Dinitrotoluene	200 ng/mL
							2,6-Dinitrotoluene	200 ng/mL
							2-Amino-4,6-dinitrotoluene	200 ng/mL
							4-Amino-2,6-dinitrotoluene	200 ng/mL
							HMX	200 ng/mL
							m-Nitrotoluene	200 ng/mL
							Nitrobenzene	200 ng/mL
							o-Nitrotoluene	200 ng/mL
							p-Nitrotoluene	200 ng/mL
RDX	200 ng/mL							
Tetryl	200 ng/mL							
HPEGDNSP_00015	400 uL	Ethylene glycol dinitrate	200 ng/mL					
HPNGPETNSP_00017	400 uL	Nitroglycerin	200 ng/mL					
		PETN	200 ng/mL					
HPPASP_00018	1000 uL	2,4,6-Trinitrophenol	500 ng/mL					
HP34DNDSU_00025	10/09/14	04/09/14	Acetonitrile, Lot Acetonitrile 00006	25 mL	HP8330SU_00022	1.25 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00022	05/01/18		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP35DNATA_00024	0.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00025	0.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							HMX	50 ug/mL
							m-Nitrotoluene	50 ug/mL
							Nitrobenzene	50 ug/mL
							o-Nitrotoluene	50 ug/mL
							p-Nitrotoluene	50 ug/mL
							RDX	50 ug/mL
Tetryl	50 ug/mL							
..HP35DNATA_00024	07/01/18		Restek, Lot A098374		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00025	11/30/17		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							HMX	1000 ug/mL
							m-Nitrotoluene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Nitrotoluene	1000 ug/mL
							p-Nitrotoluene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00015	11/07/14	05/07/14	Acetonitrile, Lot Acetonitrile 00007	25 mL	HPEGDNNTA_00012	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNNTA_00012	09/07/18		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00017	10/16/14	04/16/14	Methanol, Lot 0000042259	10 mL	HPNGTA_00025	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00023	500 uL	PETN	50 ug/mL
..HPNGTA_00025	07/31/18		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00023	04/30/18		Restek, Lot A094839		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00018	10/22/14	04/22/14	Acetonitrile, Lot Acetonitrile 00007	10 mL	HPPATA_00015	0.5 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00015	03/22/19		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L7_00010	10/07/14	05/14/14	25% 0.1%HoAc in ACN, Lot 4967-043D	10 mL	HP34DNNTSU_00025	100 uL	3,4-Dinitrotoluene	500 ng/mL
					HP8330SP_00033	100 uL	3,5-Dinitroaniline	500 ng/mL
							1,3,5-Trinitrobenzene	500 ng/mL
							1,3-Dinitrobenzene	500 ng/mL
							2,4,6-Trinitrotoluene	500 ng/mL
							2,4-Dinitrotoluene	500 ng/mL
							2,6-Dinitrotoluene	500 ng/mL
							2-Amino-4,6-dinitrotoluene	500 ng/mL
							4-Amino-2,6-dinitrotoluene	500 ng/mL
							HMX	500 ng/mL
							m-Nitrotoluene	500 ng/mL
							Nitrobenzene	500 ng/mL
							o-Nitrotoluene	500 ng/mL
							p-Nitrotoluene	500 ng/mL
							RDX	500 ng/mL
							Tetryl	500 ng/mL
					HPEGDNSP_00015	100 uL	Ethylene glycol dinitrate	500 ng/mL
					HPNGPETNSP_00017	100 uL	Nitroglycerin	500 ng/mL
							PETN	500 ng/mL
					HPPASP_00018	200 uL	2,4,6-Trinitrophenol	1000 ng/mL
.HP34DNNTSU_00025	10/09/14	04/09/14	Acetonitrile, Lot Acetonitrile 00006	25 mL	HP8330SU_00022	1.25 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00022	05/01/18		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP35DNNTA_00024	0.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00025	0.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							HMX	50 ug/mL
							m-Nitrotoluene	50 ug/mL
							Nitrobenzene	50 ug/mL
							o-Nitrotoluene	50 ug/mL
							p-Nitrotoluene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00024	07/01/18		Restek, Lot A098374			(Purchased Reagent)	3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00025	11/30/17		Restek, Lot A0102389			(Purchased Reagent)	1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							m-Nitrotoluene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Nitrotoluene	1000 ug/mL
							p-Nitrotoluene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00015	11/07/14	05/07/14	Acetonitrile, Lot Acetonitrile 00007	25 mL	HPEGDNATA_00012	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNATA_00012	09/07/18		Restek, Lot A097821			(Purchased Reagent)	Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00017	10/16/14	04/16/14	Methanol, Lot 0000042259	10 mL	HPNGTA_00025	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00023	500 uL	PETN	50 ug/mL
..HPNGTA_00025	07/31/18		Restek, Lot A096573			(Purchased Reagent)	Nitroglycerin	1000 ug/mL
..HPPETNTA_00023	04/30/18		Restek, Lot A094839			(Purchased Reagent)	PETN	1000 ug/mL
.HPPASP_00018	10/22/14	04/22/14	Acetonitrile, Lot Acetonitrile 00007	10 mL	HPPATA_00015	0.5 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00015	03/22/19		restek, Lot A0101731			(Purchased Reagent)	2,4,6-Trinitrophenol	1000 ug/mL
HP8330L8_00012	10/07/14	05/14/14	25% 0.1%HoAc in ACN, Lot 4967-043D	10 mL	HP34DNATSU_00025	200 uL	3,4-Dinitrotoluene	1000 ng/mL
					HP8330SP_00033	200 uL	3,5-Dinitroaniline	1000 ng/mL
							1,3,5-Trinitrobenzene	1000 ng/mL
							1,3-Dinitrobenzene	1000 ng/mL
							2,4,6-Trinitrotoluene	1000 ng/mL
							2,4-Dinitrotoluene	1000 ng/mL
							2,6-Dinitrotoluene	1000 ng/mL
							2-Amino-4,6-dinitrotoluene	1000 ng/mL
							4-Amino-2,6-dinitrotoluene	1000 ng/mL
							HMX	1000 ng/mL
							m-Nitrotoluene	1000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	1000 ng/mL
							o-Nitrotoluene	1000 ng/mL
							p-Nitrotoluene	1000 ng/mL
							RDX	1000 ng/mL
							Tetryl	1000 ng/mL
					HPEGDNSP_00015	200 uL	Ethylene glycol dinitrate	1000 ng/mL
					HPNGPETNSP_00017	200 uL	Nitroglycerin	1000 ng/mL
							PETN	1000 ng/mL
					HPPASP_00018	400 uL	2,4,6-Trinitrophenol	2000 ng/mL
.HP34DNSTU_00025	10/09/14	04/09/14	Acetonitrile, Lot Acetonitrile_00006	25 mL	HP8330SU_00022	1.25 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00022	05/01/18		Restek, Lot A095548				(Purchased Reagent)	3,4-Dinitrotoluene
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP35DNATA_00024	0.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00025	0.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							HMX	50 ug/mL
							m-Nitrotoluene	50 ug/mL
							Nitrobenzene	50 ug/mL
							o-Nitrotoluene	50 ug/mL
							p-Nitrotoluene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00024	07/01/18		Restek, Lot A098374				(Purchased Reagent)	3,5-Dinitroaniline
..HP8330TA_00025	11/30/17		Restek, Lot A0102389				(Purchased Reagent)	1,3,5-Trinitrobenzene
								1,3-Dinitrobenzene
								2,4,6-Trinitrotoluene
								2,4-Dinitrotoluene
								2,6-Dinitrotoluene
								2-Amino-4,6-dinitrotoluene
								4-Amino-2,6-dinitrotoluene
								HMX
								m-Nitrotoluene
								Nitrobenzene
								o-Nitrotoluene
								p-Nitrotoluene
								RDX
								Tetryl
.HPEGDNSP_00015	11/07/14	05/07/14	Acetonitrile, Lot Acetonitrile_00007	25 mL	HPEGDNATA_00012	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNATA_00012	09/07/18		Restek, Lot A097821				(Purchased Reagent)	Ethylene glycol dinitrate
..HPNGPETNSP_00017	10/16/14	04/16/14	Methanol, Lot 0000042259	10 mL	HPNGTA_00025	500 uL	Nitroglycerin	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..HPNGTA_00025	07/31/18		Restek, Lot A096573		HPPETNTA_00023	500 uL	PETN	50 ug/mL
..HPPETNTA_00023	04/30/18		Restek, Lot A094839		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPASP_00018	10/22/14	04/22/14	Acetonitrile, Lot Acetonitrile 00007	10 mL	HPPATA_00015	0.5 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00015	03/22/19		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L8_00013	10/07/14	05/16/14	25% 0.1%HoAC in ACN, Lot 4967-043D	10 mL	HP34DNTSU_00025	200 uL	3,4-Dinitrotoluene	1000 ng/mL
					HP8330SP_00033	200 uL	3,5-Dinitroaniline	1000 ng/mL
							1,3,5-Trinitrobenzene	1000 ng/mL
							1,3-Dinitrobenzene	1000 ng/mL
							2,4,6-Trinitrotoluene	1000 ng/mL
							2,4-Dinitrotoluene	1000 ng/mL
							2,6-Dinitrotoluene	1000 ng/mL
							2-Amino-4,6-dinitrotoluene	1000 ng/mL
							4-Amino-2,6-dinitrotoluene	1000 ng/mL
							HMX	1000 ng/mL
							m-Nitrotoluene	1000 ng/mL
							Nitrobenzene	1000 ng/mL
							o-Nitrotoluene	1000 ng/mL
p-Nitrotoluene	1000 ng/mL							
RDX	1000 ng/mL							
Tetryl	1000 ng/mL							
HPNGPETNSP_00017	200 uL	Nitroglycerin	1000 ng/mL					
		PETN	1000 ng/mL					
HPPASP_00018	400 uL	2,4,6-Trinitrophenol	2000 ug/mL					
..HP34DNTSU_00025	10/09/14	04/09/14	Acetonitrile, Lot Acetonitrile 00006	25 mL	HP8330SU_00022	1.25 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00022	05/01/18		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
..HP8330SP_00033	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP35DNATA_00024	0.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00025	0.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							HMX	50 ug/mL
							m-Nitrotoluene	50 ug/mL
							Nitrobenzene	50 ug/mL
							o-Nitrotoluene	50 ug/mL
							p-Nitrotoluene	50 ug/mL
							RDX	50 ug/mL
Tetryl	50 ug/mL							
..HP35DNATA_00024	07/01/18		Restek, Lot A098374		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00025	11/30/17		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							m-Nitrotoluene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Nitrotoluene	1000 ug/mL
							p-Nitrotoluene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGPETNSP_00017	10/16/14	04/16/14	Methanol, Lot 0000042259	10 mL	HPNGTA_00025	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00023	500 uL	PETN	50 ug/mL
..HPNGTA_00025	07/31/18		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00023	04/30/18		Restek, Lot A094839		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00018	10/22/14	04/22/14	Acetonitrile, Lot Acetonitrile 00007	10 mL	HPPATA_00015	0.5 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00015	03/22/19		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330SP_00032	11/14/14	05/14/14	Acetonitrile, Lot Acetonitrile_00007	10 mL	HP35DNATA_00024	0.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00025	0.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							HMX	50 ug/mL
							m-Nitrotoluene	50 ug/mL
							Nitrobenzene	50 ug/mL
							o-Nitrotoluene	50 ug/mL
							p-Nitrotoluene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
.HP35DNATA_00024	07/01/18		Restek, Lot A098374		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
.HP8330TA_00025	11/30/17		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							m-Nitrotoluene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Nitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							p-Nitrotoluene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
HPMETABL3_00007	10/20/14	05/20/14	25:75 HOAc/ACN, Lot 4967-051B	50 mL	HPMETSP_00020	20 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	20.0273 ng/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine	19.994 ng/mL
							MNX	19.9993 ng/mL
.HPMETSP_00020	10/28/14	05/01/14	Acetonitrile, Lot Acetonitrile_00007	5 mL	HPXNXH_00008	500 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	50.0681 ug/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine	49.9851 ug/mL
							MNX	49.9983 ug/mL
..HPXNXH_00008	10/28/14	04/28/14	Acetonitrile, Lot 00007	2 mL	HPDNXIM_00007	121 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	500.681 ug/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine	499.851 ug/mL
							MNX	499.983 ug/mL
					HPMNXIM_00005	80 uL	MNX	499.983 ug/mL
					HPTNXIM_00006	82 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	500.681 ug/mL
...HPDNXIM_00007	04/27/15	04/28/14	Acetonitrile, Lot 000007	1 mL	HPDNXTA_00010	10.2 mg	hexahydro-1,3,5-trinitroso-1,3,5-triazine	346.8 ug/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine	8262 ug/mL
							MNX	1326 ug/mL
....HPDNXTA_00010	04/27/15		SRI International, Lot 11172009		(Purchased Reagent)		hexahydro-1,3,5-trinitroso-1,3,5-triazine	0.034 g/g
							hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine	0.81 g/g
							MNX	0.13 g/g
...HPMNXIM_00005	04/27/15	04/28/14	Acetonitrile, Lot 00007	1 mL	HPMNXTA_00010	10.6 mg	MNX	10494 ug/mL
....HPMNXTA_00010	04/27/15		SRI International, Lot MNX153179208		(Purchased Reagent)		MNX	0.99 g/g
...HPTNXIM_00006	04/27/15	04/28/14	Acetonitrile, Lot 00007	1 mL	HPTNXTA_00010	11.7 mg	hexahydro-1,3,5-trinitroso-1,3,5-triazine	11700 ug/mL
....HPTNXTA_00010	04/27/15		SRI International, Lot 09192008		(Purchased Reagent)		hexahydro-1,3,5-trinitroso-1,3,5-triazine	1 g/g
HPMETABL4_00009	10/20/14	05/20/14	25:75 HOAc/ACN, Lot 4967-051B	50 mL	HPMETSP_00020	50 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	50.0681 ng/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine	49.9851 ng/mL
							MNX	49.9983 ng/mL
.HPMETSP_00020	10/28/14	05/01/14	Acetonitrile, Lot Acetonitrile_00007	5 mL	HPXNXH_00008	500 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	50.0681 ug/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine	49.9851 ug/mL
							MNX	49.9983 ug/mL
..HPXNXH_00008	10/28/14	04/28/14	Acetonitrile, Lot 00007	2 mL	HPDNXIM_00007	121 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	500.681 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine	499.851 ug/mL
							MNX	499.983 ug/mL
					HPMNXIM_00005	80 uL	MNX	499.983 ug/mL
					HPTNXIM_00006	82 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	500.681 ug/mL
...HPDNXIM_00007	04/27/15	04/28/14	Acetonitrile, Lot 000007	1 mL	HPDNXTA_00010	10.2 mg	hexahydro-1,3,5-trinitroso-1,3,5-triazine	346.8 ug/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine	8262 ug/mL
							MNX	1326 ug/mL
...HPDNXTA_00010	04/27/15	SRI International, Lot 11172009			(Purchased Reagent)		hexahydro-1,3,5-trinitroso-1,3,5-triazine	0.034 g/g
							hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine	0.81 g/g
							MNX	0.13 g/g
...HPMNXIM_00005	04/27/15	04/28/14	Acetonitrile, Lot 00007	1 mL	HPMNXTA_00010	10.6 mg	MNX	10494 ug/mL
...HPMNXTA_00010	04/27/15	SRI International, Lot MNX153179208			(Purchased Reagent)		MNX	0.99 g/g
...HPTNXIM_00006	04/27/15	04/28/14	Acetonitrile, Lot 00007	1 mL	HPTNXTA_00010	11.7 mg	hexahydro-1,3,5-trinitroso-1,3,5-triazine	11700 ug/mL
...HPTNXTA_00010	04/27/15	SRI International, Lot 09192008			(Purchased Reagent)		hexahydro-1,3,5-trinitroso-1,3,5-triazine	1 g/g
HPMETABL5_00013	10/20/14	05/20/14	25:75 HOAc/ACN, Lot 4967-051B	25 mL	HPMETSP_00020	50 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	100.136 ng/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine	99.9702 ng/mL
							MNX	99.9966 ng/mL
.HPMETSP_00020	10/28/14	05/01/14	Acetonitrile, Lot Acetonitrile_00007	5 mL	HPXNXH_00008	500 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	50.0681 ug/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine	49.9851 ug/mL
							MNX	49.9983 ug/mL
..HPXNXH_00008	10/28/14	04/28/14	Acetonitrile, Lot 00007	2 mL	HPDNXIM_00007	121 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	500.681 ug/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine	499.851 ug/mL
							MNX	499.983 ug/mL
					HPMNXIM_00005	80 uL	MNX	499.983 ug/mL
					HPTNXIM_00006	82 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	500.681 ug/mL
...HPDNXIM_00007	04/27/15	04/28/14	Acetonitrile, Lot 000007	1 mL	HPDNXTA_00010	10.2 mg	hexahydro-1,3,5-trinitroso-1,3,5-triazine	346.8 ug/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine	8262 ug/mL
							MNX	1326 ug/mL
...HPDNXTA_00010	04/27/15	SRI International, Lot 11172009			(Purchased Reagent)		hexahydro-1,3,5-trinitroso-1,3,5-triazine	0.034 g/g
							hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine	0.81 g/g
							MNX	0.13 g/g

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...HPMNXIM_00005	04/27/15	04/28/14	Acetonitrile, Lot 00007	1 mL	HPMNXTA_00010	10.6 mg	MNX	10494 ug/mL
...HPMNXTA_00010	04/27/15		SRI International, Lot MNX153179208		(Purchased Reagent)		MNX	0.99 g/g
...HPTNXIM_00006	04/27/15	04/28/14	Acetonitrile, Lot 00007	1 mL	HPTNXTA_00010	11.7 mg	hexahydro-1,3,5-trinitroso-1,3,5-triazine	11700 ug/mL
...HPTNXTA_00010	04/27/15		SRI International, Lot 09192008		(Purchased Reagent)		hexahydro-1,3,5-trinitroso-1,3,5-triazine	1 g/g
HPMETABL6_00009	10/20/14	05/20/14	25:75 HOAc/ACN, Lot 4967-051B	25 mL	HPMETSP_00020	100 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	200.273 ng/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine	199.94 ng/mL
							MNX	199.993 ng/mL
.HPMETSP_00020	10/28/14	05/01/14	Acetonitrile, Lot Acetonitrile_00007	5 mL	HPXNXH_00008	500 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	50.0681 ug/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine	49.9851 ug/mL
							MNX	49.9983 ug/mL
..HPXNXH_00008	10/28/14	04/28/14	Acetonitrile, Lot 00007	2 mL	HPDNXIM_00007	121 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	500.681 ug/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine	499.851 ug/mL
							MNX	499.983 ug/mL
					HPMNXIM_00005	80 uL	MNX	499.983 ug/mL
					HPTNXIM_00006	82 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	500.681 ug/mL
...HPDNXIM_00007	04/27/15	04/28/14	Acetonitrile, Lot 000007	1 mL	HPDNXTA_00010	10.2 mg	hexahydro-1,3,5-trinitroso-1,3,5-triazine	346.8 ug/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine	8262 ug/mL
							MNX	1326 ug/mL
...HPDNXTA_00010	04/27/15		SRI International, Lot 11172009		(Purchased Reagent)		hexahydro-1,3,5-trinitroso-1,3,5-triazine	0.034 g/g
							hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine	0.81 g/g
							MNX	0.13 g/g
...HPMNXIM_00005	04/27/15	04/28/14	Acetonitrile, Lot 00007	1 mL	HPMNXTA_00010	10.6 mg	MNX	10494 ug/mL
...HPMNXTA_00010	04/27/15		SRI International, Lot MNX153179208		(Purchased Reagent)		MNX	0.99 g/g
...HPTNXIM_00006	04/27/15	04/28/14	Acetonitrile, Lot 00007	1 mL	HPTNXTA_00010	11.7 mg	hexahydro-1,3,5-trinitroso-1,3,5-triazine	11700 ug/mL
...HPTNXTA_00010	04/27/15		SRI International, Lot 09192008		(Purchased Reagent)		hexahydro-1,3,5-trinitroso-1,3,5-triazine	1 g/g
HPMETABL7_00007	10/20/14	05/20/14	25:75 HOAc/ACN, Lot 4967-051B	10 mL	HPMETSP_00020	100 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	500.681 ng/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine	499.851 ng/mL
							MNX	499.983 ng/mL
.HPMETSP_00020	10/28/14	05/01/14	Acetonitrile, Lot Acetonitrile_00007	5 mL	HPXNXH_00008	500 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	50.0681 ug/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine	49.9851 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 320-7661-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..HPXNXH_00008	10/28/14	04/28/14	Acetonitrile, Lot 00007	2 mL	HPDNXIM_00007	121 uL	MNX	49.9983 ug/mL
							hexahydro-1,3,5-trinitroso-1,3,5-triazine	500.681 ug/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine	499.851 ug/mL
							MNX	499.983 ug/mL
					HPMNXIM_00005	80 uL	MNX	499.983 ug/mL
					HPTNXIM_00006	82 uL	hexahydro-1,3,5-trinitroso-1,3,5-triazine	500.681 ug/mL
...HPDNXIM_00007	04/27/15	04/28/14	Acetonitrile, Lot 000007	1 mL	HPDNXTA_00010	10.2 mg	hexahydro-1,3,5-trinitroso-1,3,5-triazine	346.8 ug/mL
							hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine	8262 ug/mL
							MNX	1326 ug/mL
...HPDNXTA_00010	04/27/15	SRI International, Lot 11172009		(Purchased Reagent)		hexahydro-1,3,5-trinitroso-1,3,5-triazine	0.034 g/g	
						hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine	0.81 g/g	
						MNX	0.13 g/g	
...HPMNXIM_00005	04/27/15	04/28/14	Acetonitrile, Lot 00007	1 mL	HPMNXTA_00010	10.6 mg	MNX	10494 ug/mL
...HPMNXTA_00010	04/27/15	SRI International, Lot MNX153179208		(Purchased Reagent)		MNX	0.99 g/g	
...HPTNXIM_00006	04/27/15	04/28/14	Acetonitrile, Lot 00007	1 mL	HPTNXTA_00010	11.7 mg	hexahydro-1,3,5-trinitroso-1,3,5-triazine	11700 ug/mL
...HPTNXTA_00010	04/27/15	SRI International, Lot 09192008		(Purchased Reagent)		hexahydro-1,3,5-trinitroso-1,3,5-triazine	1 g/g	
HPNGPETNSP_00017	10/16/14	04/16/14	Methanol, Lot 0000042259	10 mL	HPNGTA_00025	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00023	500 uL	PETN	50 ug/mL
.HPNGTA_00025	07/31/18	Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL	
.HPPETNTA_00023	04/30/18	Restek, Lot A094839		(Purchased Reagent)		PETN	1000 ug/mL	

Reagent

HP35DNATA_00024



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31661 **Lot No.:** A098374

Description : 3,5-Dinitroaniline Standard
3, 5-Dinitroaniline Std 1000µg/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2018 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	3,5-Dinitroaniline CAS # 618-87-1 Purity 99% (Lot 10311HS)	1,005.0 µg/mL	+/- 10.1241	µg/mL	Gravimetric
			+/- 21.2779	µg/mL	Unstressed
			+/- 21.2779	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

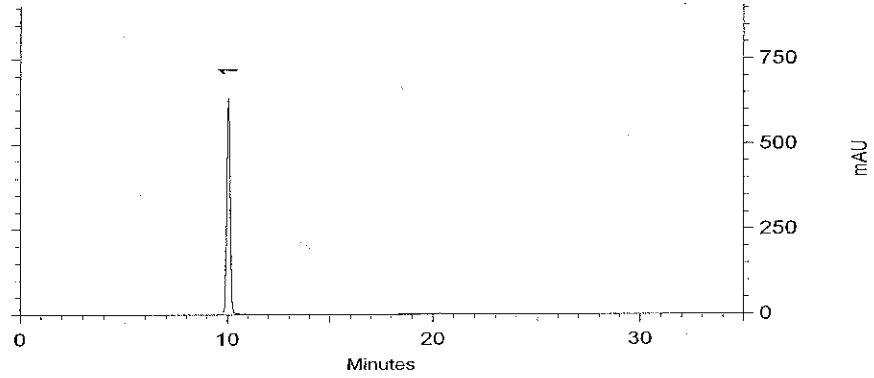
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen to guarantee product quality. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis

Cathleen Soltis - Mix Technician

Date Mixed: 01-Oct-2013

Balance: 1127510105

Diane Shaffer

Diane Shaffer - QA Analyst

Date Passed: 11-Oct-2013

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

HP8330SU_00022

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31452 Lot No.: A095548
 Description : 8330 Internal Standard Mix
8330 Internal Std 3, 4-Dinitrotoluene 1000µg/mL, Methanol, 1mL/ampul
 Container Size : 2 mL Pkg Amt: > 1 mL
 Expiration Date : May 31, 2018 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)		
1	3,4-Dinitrotoluene CAS # 610-39-9 Purity 99% (Lot 1433716V)	1,008.0 µg/mL	+/- 5.9872	µg/mL	Gravimetric
			+/- 12.2118	µg/mL	Unstressed
			+/- 13.7643	µg/mL	Stressed

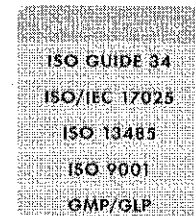
Solvent: Methanol
 CAS # 67-56-1
 Purity 99%

Reagent

HP8330TA_00016

Certificate of Analysis

Method 8330 Stock Standard



Catalog Number: ERE-021
Solution Lot: ER083011-01
Expiration Date: August 2016
Solvent: Acetonitrile
Volume per Ampule: Not less than 1.2 mL
Storage: Store unopened in Freezer.
Intended Use: For R&D/ analytical purposes only. Not suitable for human or animal consumption.
Safety: Flammable, Poison

- Expiration Date has been established through real time stability studies.
- Ampules are overfilled to ensure a minimum 1.2 mL volume. We advise laboratories to use measured volumes of this standard solution before diluting to the desired concentration.

Component	Chromatographic Purity	Concentration
2-Amino-4,6-dinitrotoluene	99.98%	200.0 µg/mL
4-Amino-2,6-dinitrotoluene	99.88%	200.0 µg/mL
1,3-Dinitrobenzene	98.72%	200.0 µg/mL
2,4-Dinitrotoluene	99.00%	200.0 µg/mL
2,6-Dinitrotoluene	99.59%	200.0 µg/mL
HMX	98.41%	200.0 µg/mL
Nitrobenzene	99.96%	200.0 µg/mL
2-Nitrotoluene	99.95%	200.0 µg/mL
3-Nitrotoluene	99.94%	200.0 µg/mL
4-Nitrotoluene	99.81%	200.0 µg/mL
RDX	99.94%	200.0 µg/mL
Tetryl	98.67%	200.0 µg/mL
1,3,5-Trinitrobenzene	99.96%	200.0 µg/mL
2,4,6-Trinitrotoluene (TNT)	99.89%	200.0 µg/mL

• Concentration is corrected for chromatographic purity, residual water, residual solvents and residual inorganics.

Traceability

- Gravimetrically prepared using qualified balances calibrated semi-annually by Mettler Toledo using NIST traceable weights. Calibration verification performed weekly and prior to each use utilizing NIST traceable weights. Each balance has been assigned a minimum weighing by Mettler Toledo taking into consideration the balance and installed environmental conditions to ensure weighing complies with USP tolerances of no more than 0.1% relative error.
- Concentration is verified against an independently prepared calibration solution gravimetrically prepared using balances calibrated to NIST.
- In addition, each neat material utilized has been identified and thoroughly characterized through the use of multiple analytical techniques. Spectral data is provided on subsequent pages of the COA.

Cerilliant certifies that this standard meets the specifications stated in this certificate and warrants this product to meet the stated acceptance criteria through the expiration/retest date when stored unopened as recommended. Product should be used shortly after opening to avoid concentration changes due to evaporation. Warranty does not apply to ampoules stored after opening.



Lara Sparks
Lara Sparks, Quality Assurance Director

September 27, 2011

Date

Reagent

HP8330TA_00025



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 33905

Lot No.: A0102389

Description: 8330 Calibration Standard

Nitroaromatics and Nitramine Explosives by HPLC, 1mL/ampul
1000µg/mL Acetonitrile *PGI BOX REQUIRED* SHIP FED EX
GROUND ONLY

Container Size: 2 mL

Pkg Amt: > 1 mL

Expiration Date: November 30, 2017

Storage: 10°C or colder

CERTIFIED VALUES

Table with 4 main columns: Elution Order, Compound, Grav. Conc. (weight/volume), and Expanded Uncertainty (95% C.L.; K=2). It lists 7 compounds including HMX, RDX, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, Nitrobenzene, Tetryl, and 2,4,6-Trinitrotoluene with their respective CAS numbers, purities, and certified values.

8	2-Amino-4,6-dinitrotoluene		1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 35572-78-2	(Lot 29550-55)			+/-	53.9873	µg/mL	Unstressed
	Purity 99%				+/-	58.7028	µg/mL	Stressed
9	4-Amino-2,6-dinitrotoluene		1,000.0	µg/mL	+/-	5.9397	µg/mL	Gravimetric
	CAS # 19406-51-0	(Lot ER070908-01)			+/-	53.7722	µg/mL	Unstressed
	Purity 99%				+/-	58.4689	µg/mL	Stressed
10	2,4-Dinitrotoluene		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 121-14-2	(Lot MKAA0690V)			+/-	53.8797	µg/mL	Unstressed
	Purity 99%				+/-	58.5858	µg/mL	Stressed
11	2,6-Dinitrotoluene		1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 606-20-2	(Lot 1437483V)			+/-	53.9873	µg/mL	Unstressed
	Purity 99%				+/-	58.7028	µg/mL	Stressed
12	2-Nitrotoluene		1,006.0	µg/mL	+/-	5.9753	µg/mL	Gravimetric
	CAS # 88-72-2	(Lot GA01)			+/-	54.0948	µg/mL	Unstressed
	Purity 99%				+/-	58.8197	µg/mL	Stressed
13	4-Nitrotoluene		991.3	µg/mL	+/-	5.8883	µg/mL	Gravimetric
	CAS # 99-99-0	(Lot FAU01)			+/-	53.3065	µg/mL	Unstressed
	Purity 97%				+/-	57.9626	µg/mL	Stressed
14	3-Nitrotoluene		1,003.0	µg/mL	+/-	5.9574	µg/mL	Gravimetric
	CAS # 99-08-1	(Lot FBO01)			+/-	53.9324	µg/mL	Unstressed
	Purity 97%				+/-	58.6431	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Specific Reference Material Notes:

Reagent

HPDNXTA_00010



R. 3/19/14 TQP

TestAmerica Sacramento
880 Riverside Parkway
Sacramento, CA 95605

March 17, 2014

P.O. No. 2553203

Gentlemen,

Enclosed please find five (5) 10-mg sample each of 1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX), 1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX), and 1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX) as requested under your Purchase Order No. 2553203. Chromatographic profiles of the three samples suggest TNX is >99.9% pure, MNX is 99% pure, and the DNX sample is 81% pure with ~13.0% MNX and 3.4% TNX. I hope this information will help you. I recommend that the DNX and MNX samples be stored in the freezer.

If you have any questions, please don't hesitate to call me.

Sincerely,

Ronald J. Spangord, Ph.D.
Assoc. Dept. Director
Chemical Sciences and Technology Department
(650) 859-3822 (phone)
(650) 859-4321 (Fax)

Lot No. 11172009 DNX
09192008 TNX
MNX 153179208

Reagent

HPEGDNTA_00012

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31601

Lot No.: A097821

Recd 4-21-14
3 ampules

Description : EGDN Standard

1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED
 EX GROUND ONLY

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : September 30, 2018

Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	EGDN CAS # 628-96-6 Purity 99%	1,000.0 µg/mL (Lot 120716JLM)	+/- 5.9397 µg/mL Gravimetric +/- 31.6700 µg/mL Unstressed +/- 44.3869 µg/mL Stressed

Solvent: Methanol
 CAS # 67-56-1
 Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

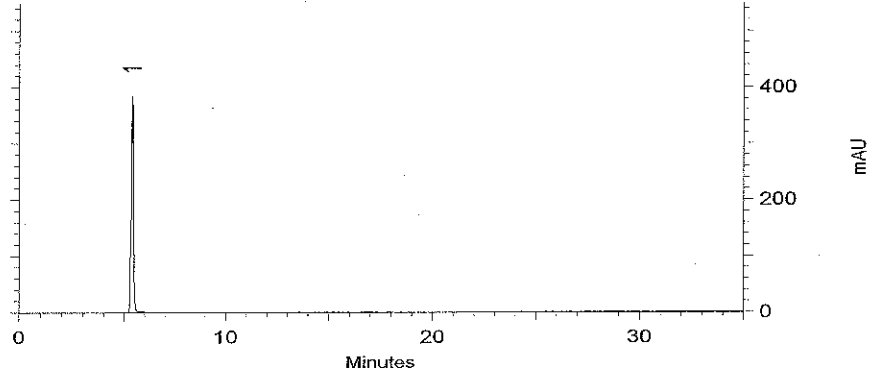
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen to guarantee product quality. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Mays

Date Mixed: 05-Sep-2013 **Balance:** 1128353505

Diane Shaffer

Diane Shaffer - QA Analyst

Date Passed: 10-Sep-2013

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

HPMNXTA_00010



R. 3/19/14 TQP

TestAmerica Sacramento
880 Riverside Parkway
Sacramento, CA 95605

March 17, 2014

P.O. No. 2553203

Gentlemen,

Enclosed please find five (5) 10-mg sample each of 1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX), 1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX), and 1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX) as requested under your Purchase Order No. 2553203. Chromatographic profiles of the three samples suggest TNX is >99.9% pure, MNX is 99% pure, and the DNX sample is 81% pure with ~13.0% MNX and 3.4% TNX. I hope this information will help you. I recommend that the DNX and MNX samples be stored in the freezer.

If you have any questions, please don't hesitate to call me.

Sincerely,

Ronald J. Spangord, Ph.D.
Assoc. Dept. Director
Chemical Sciences and Technology Department
(650) 859-3822 (phone)
(650) 859-4321 (Fax)

Lot No. 11172009 DNX
09192008 TNX
MNX 153179208

Reagent

HPNGTA_00025

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31498 **Lot No.:** A096573
Description : Nitroglycerin Standard
1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED
EX GROUND ONLY
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2018 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitroglycerin CAS # 55-63-0 Purity 99% (Lot 121115JLM)	1,003.6 µg/mL	+/- 5.8897 µg/mL Gravimetric +/- 31.7838 µg/mL Unstressed +/- 44.5465 µg/mL Stressed

Solvent: Methanol
 CAS # 67-56-1
 Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

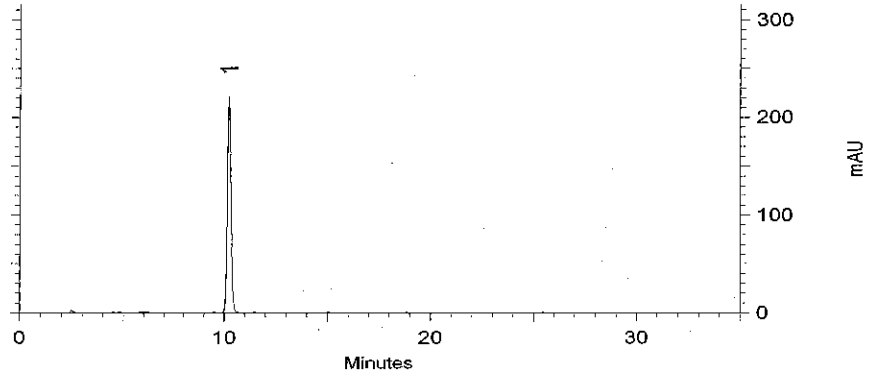
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen to guarantee product quality. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Sawyer

Date Mixed: 11-Jul-2013 **Balance:** 1128360905

Diane Shaffer
Diane Shaffer - QA Analyst

Date Passed: 16-Jul-2013

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

HPPATA_00015



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31499 Lot No.: A0101731

Recd 4-21-14
4 ampule

Description : Picric Acid Standard
1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED
EX GROUND ONLY

Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : March 31, 2019 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Picric Acid CAS # 88-89-1 Purity 99% (Lot 06130CU)	1,002.0 µg/mL	+/- 5.9516 µg/mL Gravimetric +/- 53.8797 µg/mL Unstressed +/- 58.5858 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

This is a derivatized analysis.

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

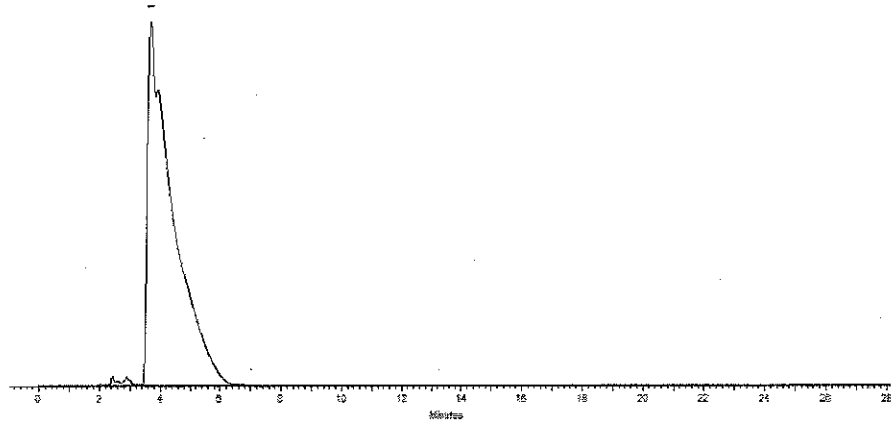
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Kendra Swope - Mix Technician

Date Mixed: 04-Mar-2014 **Balance:** 1125113331


Diane Chaffer - QA Analyst

Date Passed: 12-Mar-2014

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

HPPETNTA_00023

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31600 **Lot No.:** A094839
Description : PETN Standard
1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED
EX GROUND ONLY
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2018 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	PETN CAS # 78-11-5 Purity 99%	1,000.5 µg/mL (Lot 051108JLM)	+/- 5.8715	µg/mL	Gravimetric	
			+/- 32.2068	µg/mL	Unstressed	
			+/- 44.7823	µg/mL	Stressed	

Solvent: Methanol
 CAS # 67-56-1
 Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

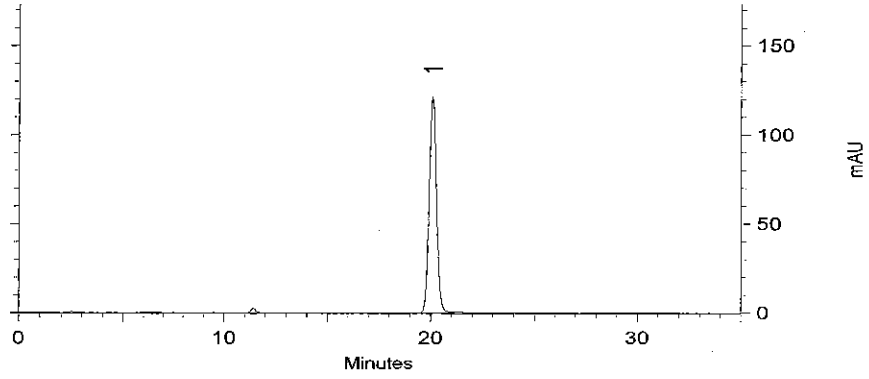
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen to guarantee product quality. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Mage

Date Mixed: 17-Apr-2013 **Balance:** 1128353505

Diane Shaffer
Diane Shaffer - QA Analyst

Date Passed: 22-Apr-2013

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

HPTNXTA_00010



R. 3/19/14 TQP

TestAmerica Sacramento
880 Riverside Parkway
Sacramento, CA 95605

March 17, 2014

P.O. No. 2553203

Gentlemen,

Enclosed please find five (5) 10-mg sample each of 1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX), 1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX), and 1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX) as requested under your Purchase Order No. 2553203. Chromatographic profiles of the three samples suggest TNX is >99.9% pure, MNX is 99% pure, and the DNX sample is 81% pure with ~13.0% MNX and 3.4% TNX. I hope this information will help you. I recommend that the DNX and MNX samples be stored in the freezer.

If you have any questions, please don't hesitate to call me.

Sincerely,

Ronald J. Spangord, Ph.D.
Assoc. Dept. Director
Chemical Sciences and Technology Department
(650) 859-3822 (phone)
(650) 859-4321 (Fax)

Lot No. 11172009 DNX
09192008 TNX
MNX 153179208

Method 8330A

Nitroaromatics and Nitramines (HPLC)
by Method 8330A

FORM II
HPLC/IC SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Synergi C18 ID: 4.6 (mm) GC Column (2): Zorbax CN 4.6 (mm)

Client Sample ID	Lab Sample ID	DNT1 #	DNT2 #
GW-DA-1-052314	320-7661-1	104	
GW-DA-1-052314	320-7661-1		119 X
GW-DA-1-052314-(01)	320-7661-2	105	
GW-DA-1-052314-(01)	320-7661-2		120 X
GW-DA-3-052314	320-7661-3	115 X	
GW-DA-3-052314	320-7661-3		130 X
	MB 320-43333/1-A	92	
	MB 320-43333/1-A		101
	LCS 320-43333/2-A	91	
	LCSD 320-43333/3-A	95	
GW-DA-1-052314 MS	320-7661-1 MS	109	

DNT = 3,4-Dinitrotoluene

QC LIMITS
79-111

Column to be used to flag recovery values

FORM II 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: ZD000009.D
 Lab ID: LCS 320-43333/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2,4-Dinitrotoluene	1.00	0.987	99	70-119	
2,6-Dinitrotoluene	1.00	0.979	98	71-119	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: ZD000010.D

Lab ID: LCSO 320-43333/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSO CONCENTRATION (ug/L)	LCSO % REC	% RPD	QC LIMITS		#
					RPD	REC	
2,4-Dinitrotoluene	1.00	1.05	105	6	30	70-119	
2,6-Dinitrotoluene	1.00	1.05	105	7	29	71-119	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: ZD000012.D
 Lab ID: 320-7661-1 MS Client ID: GW-DA-1-052314 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
2,4-Dinitrotoluene	1.01	0.13	1.14	99	70-119	
2,6-Dinitrotoluene	1.01	0.15	1.49	133	71-119	F1

Column to be used to flag recovery and RPD values

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: MB 320-43333/1-A
 Matrix: Water Date Extracted: 05/28/2014 14:06
 Lab File ID: (1) ZD000008.D Lab File ID: (2) _____
 Date Analyzed: (1) 05/30/2014 22:54 Date Analyzed: (2) _____
 Instrument ID: (1) LC11 Instrument ID: (2) LC12
 GC Column: (1) Synergi C18 ID: 4.6(mm) GC Column: (2) Zorbax CN ID: 4.6(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 320-43333/2-A	05/30/2014 23:50	
	LCSD 320-43333/3-A	05/31/2014 00:47	
GW-DA-1-052314	320-7661-1	05/31/2014 01:44	05/29/2014 21:46
GW-DA-1-052314 MS	320-7661-1 MS	05/31/2014 02:40	
GW-DA-1-052314-(01)	320-7661-2	05/31/2014 03:37	05/29/2014 22:52
GW-DA-3-052314	320-7661-3	05/31/2014 05:30	05/29/2014 23:57

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: MB 320-43333/1-A
 Matrix: Water Date Extracted: 05/28/2014 14:06
 Lab File ID:(1) _____ Lab File ID:(2) ZC000006.D
 Date Analyzed:(1) _____ Date Analyzed:(2) 05/29/2014 20:40
 Instrument ID:(1) LC11 Instrument ID:(2) LC12
 GC Column:(1) Synergi C18 ID: 4.6(mm) GC Column:(2) Zorbax CN ID: 4.6(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Sample No.: CCV 320-43521/4 Date Analyzed: 05/30/2014 19:08
 Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm)
 Lab File ID (Standard): ZD000004.D Heated Purge: (Y/N) N
 Calibration ID: 7483

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DNT		
				RT #		
CONTINUING CALIBRATION SURROGATE				32.66		
UPPER LIMIT				32.91		
LOWER LIMIT				32.41		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 320-43521/4 CCVRT		05/30/2014 19:08	ZD000004.D	32.66		
MB 320-43333/1-A		05/30/2014 22:54	ZD000008.D	32.66		
LCS 320-43333/2-A		05/30/2014 23:50	ZD000009.D	32.66		
LCSD 320-43333/3-A		05/31/2014 00:47	ZD000010.D	32.66		
320-7661-1	GW-DA-1-052314	05/31/2014 01:44	ZD000011.D	32.67		
320-7661-1 MS	GW-DA-1-052314 MS	05/31/2014 02:40	ZD000012.D	32.66		
320-7661-2	GW-DA-1-052314-(01)	05/31/2014 03:37	ZD000013.D	32.67		

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Sample No.: CCV 320-43521/14 Date Analyzed: 05/31/2014 04:34
 Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm)
 Lab File ID (Standard): ZD000014.D Heated Purge: (Y/N) N
 Calibration ID: 7483

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

					DNT		
					RT #		
CONTINUING CALIBRATION SURROGATE					32.65		
UPPER LIMIT					32.90		
LOWER LIMIT					32.40		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID				
CCV 320-43521/14 CCVRT		05/31/2014 04:34	ZD000014.D	32.65			
320-7661-3	GW-DA-3-052314	05/31/2014 05:30	ZD000015.D	32.66			

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Sample No.: CCV 320-43436/5 Date Analyzed: 05/29/2014 19:35
 Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6 (mm)
 Lab File ID (Standard): ZC000005.D Heated Purge: (Y/N) N
 Calibration ID: 7315

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DNT		
				RT #		
CONTINUING CALIBRATION SURROGATE				38.64		
UPPER LIMIT				38.89		
LOWER LIMIT				38.39		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 320-43436/5 CCVRT		05/29/2014 19:35	ZC000005.D	38.64		
MB 320-43333/1-A		05/29/2014 20:40	ZC000006.D	38.64		
320-7661-1	GW-DA-1-052314	05/29/2014 21:46	ZC000007.D	38.63		
320-7661-2	GW-DA-1-052314-(01)	05/29/2014 22:52	ZC000008.D	38.62		
320-7661-3	GW-DA-3-052314	05/29/2014 23:57	ZC000009.D	38.62		

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Client Sample ID: GW-DA-1-052314 Lab Sample ID: 320-7661-1
 Instrument ID (1): LC11 Instrument ID (2): LC12
 Date Analyzed (1): 05/31/2014 01:44 Date Analyzed (2): 05/29/2014 21:46
 GC Column (1): Synergi C18 ID: 4.6(mm) GC Column (2): Zorbax CN ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,6-Dinitrotoluene	1		34.12	33.90	34.40	0.45		99.2
	2		34.26	34.01	34.51	0.15		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Client Sample ID: GW-DA-1-052314-(01) Lab Sample ID: 320-7661-2
 Instrument ID (1): LC11 Instrument ID (2): LC12
 Date Analyzed (1): 05/31/2014 03:37 Date Analyzed (2): 05/29/2014 22:52
 GC Column (1): Synergi C18 ID: 4.6(mm) GC Column (2): Zorbax CN ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,6-Dinitrotoluene	1		34.12	33.90	34.40	0.46		100.2
	2		34.26	34.01	34.51	0.15		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Client Sample ID: GW-DA-3-052314 Lab Sample ID: 320-7661-3
 Instrument ID (1): LC11 Instrument ID (2): LC12
 Date Analyzed (1): 05/31/2014 05:30 Date Analyzed (2): 05/29/2014 23:57
 GC Column (1): Synergi C18 ID: 4.6(mm) GC Column (2): Zorbax CN ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,6-Dinitrotoluene	1		34.11	33.89	34.39	0.43		106.6
	2		34.25	34.01	34.51	0.13		

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Client Sample ID: GW-DA-1-052314 Lab Sample ID: 320-7661-1
 Matrix: Water Lab File ID: ZC000007.D
 Analysis Method: 8330A Date Collected: 05/23/2014 11:30
 Extraction Method: 8330-Prep Date Extracted: 05/28/2014 14:06
 Sample wt/vol: 990.8 (mL) Date Analyzed: 05/29/2014 21:46
 Con. Extract Vol.: 20.00 (mL) Dilution Factor: 1
 Injection Volume: 500 (uL) GC Column: Zorbax CN ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 43436 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	119	X	79-111

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20140529-12796.b\ZC000007.D
 Lims ID: 320-7661-A-1-A Lab Sample ID: 320-7661-1
 Client ID: GW-DA-1-052314
 Sample Type: Client
 Inject. Date: 29-May-2014 21:46:30 ALS Bottle#: 12 Worklist Smp#: 7
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012796-007
 Operator ID: TQP Instrument ID: LC12
 Method: \\SACChrom\ChromData\LC12\20140529-12796.b\LC12_Conf_8330.m
 Limit Group: LC 8330A ICAL
 Last Update: 02-Jun-2014 14:21:13 Calib Date: 27-May-2014 20:26:54
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC12\20140527-12737.b\ZA000008.D
 Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK029

First Level Reviewer: phant Date: 02-Jun-2014 14:21:18

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
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23	2,4-Dinitrotoluene				
1	33.254	33.246	0.008	536H	6.57
12	2,6-Dinitrotoluene				
1	34.257	34.256	0.001	367H	7.46
\$ 30	3,4-Dinitrotoluene				
1	38.627	38.640	-0.013	7086H	149.2

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140529-12796.b\ZC000007.D

Injection Date: 29-May-2014 21:46:30

Instrument ID: LC12

Operator ID: TQP

Lims ID: 320-7661-A-1-A

Lab Sample ID: 320-7661-1

Worklist Smp#: 7

Client ID: GW-DA-1-052314

Injection Vol: 500.0 ul

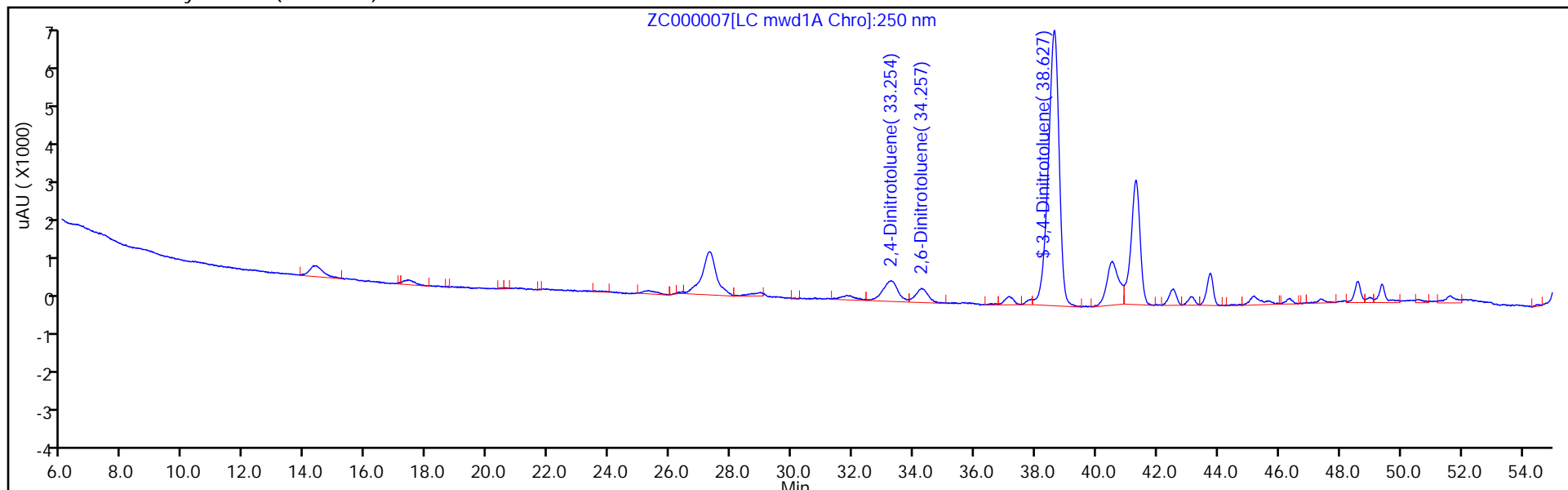
Dil. Factor: 1.0000

ALS Bottle#: 12

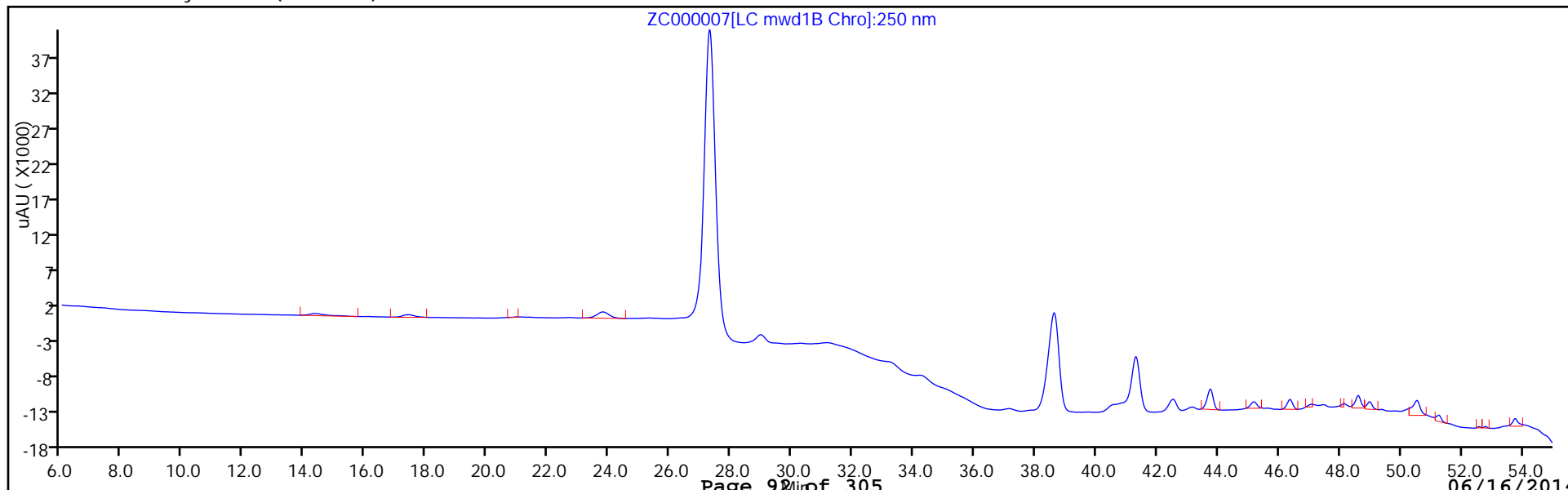
Method: LC12_Conf_8330

Limit Group: LC 8330A ICAL

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Client Sample ID: GW-DA-1-052314 Lab Sample ID: 320-7661-1
 Matrix: Water Lab File ID: ZD000011.D
 Analysis Method: 8330A Date Collected: 05/23/2014 11:30
 Extraction Method: 8330-Prep Date Extracted: 05/28/2014 14:06
 Sample wt/vol: 990.8(mL) Date Analyzed: 05/31/2014 01:44
 Con. Extract Vol.: 20.00(mL) Dilution Factor: 1
 Injection Volume: 500(uL) GC Column: Synergi C18 ID: 4.6(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 43521 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	ND		0.10	
606-20-2	2,6-Dinitrotoluene	0.45	p	0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	104		79-111

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000011.D
 Lims ID: 320-7661-A-1-A Lab Sample ID: 320-7661-1
 Client ID: GW-DA-1-052314
 Sample Type: Client
 Inject. Date: 31-May-2014 01:44:08 ALS Bottle#: 17 Worklist Smp#: 11
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012820-011
 Operator ID: TQP Instrument ID: LC11
 Method: \\SACChrom\ChromData\LC11\20140530-12820.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 02-Jun-2014 14:07:28 Calib Date: 30-May-2014 05:16:15
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000020.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK029

First Level Reviewer: phant Date: 02-Jun-2014 14:08:10

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
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5 Nitrobenzene						
1	29.971	29.873	0.098	266H	2.64	
20 Tetryl						
1	30.441	30.333	0.108	193H	1.52	
25 2,4,6-Trinitrotoluene						
1	31.377	31.480	-0.103	104H	0.7958	
26 4-Amino-2,6-dinitrotoluene						
1	32.411	32.366	0.045	522H	5.04	M
\$ 30 3,4-Dinitrotoluene						
1	32.667	32.663	0.004	10227H	129.8	M
2	32.667	32.663	0.004	19687H	132.9	
12 2,6-Dinitrotoluene						
1	34.121	34.146	-0.025	1793H	22.1	
23 2,4-Dinitrotoluene						
1	34.497	34.493	0.004	539H	3.97	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000011.D

Injection Date: 31-May-2014 01:44:08

Instrument ID: LC11

Operator ID: TQP

Lims ID: 320-7661-A-1-A

Lab Sample ID: 320-7661-1

Worklist Smp#: 11

Client ID: GW-DA-1-052314

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

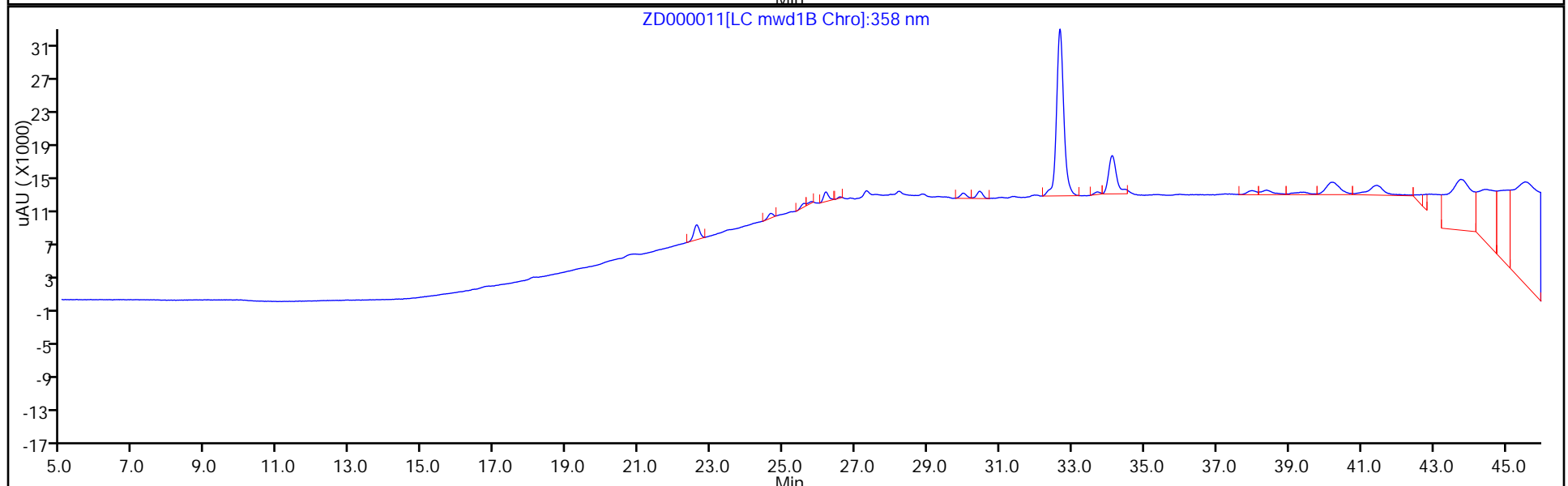
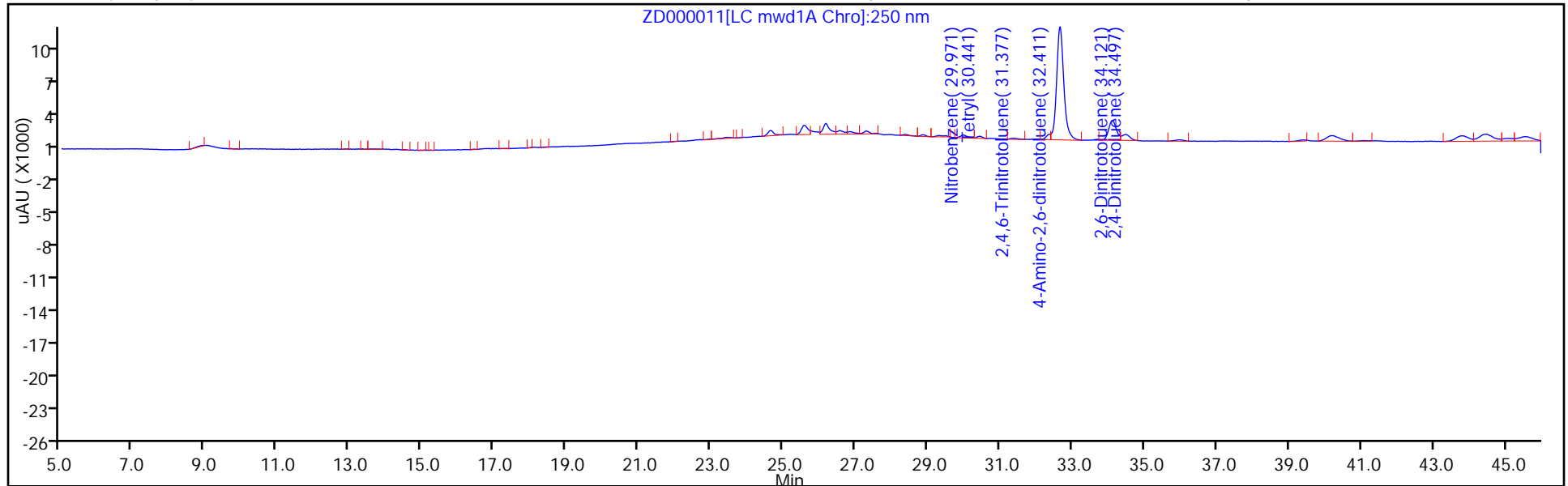
ALS Bottle#: 17

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



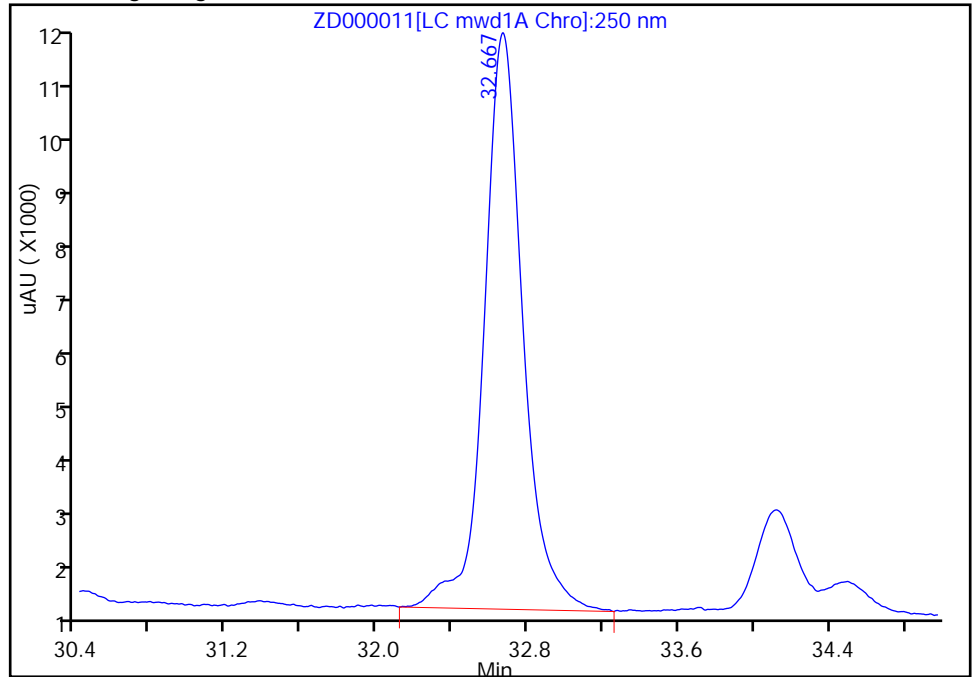
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000011.D
Injection Date: 31-May-2014 01:44:08 Instrument ID: LC11
Lims ID: 320-7661-A-1-A Lab Sample ID: 320-7661-1
Client ID: GW-DA-1-052314
Operator ID: TQP ALS Bottle#: 17 Worklist Smp#: 11
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

\$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

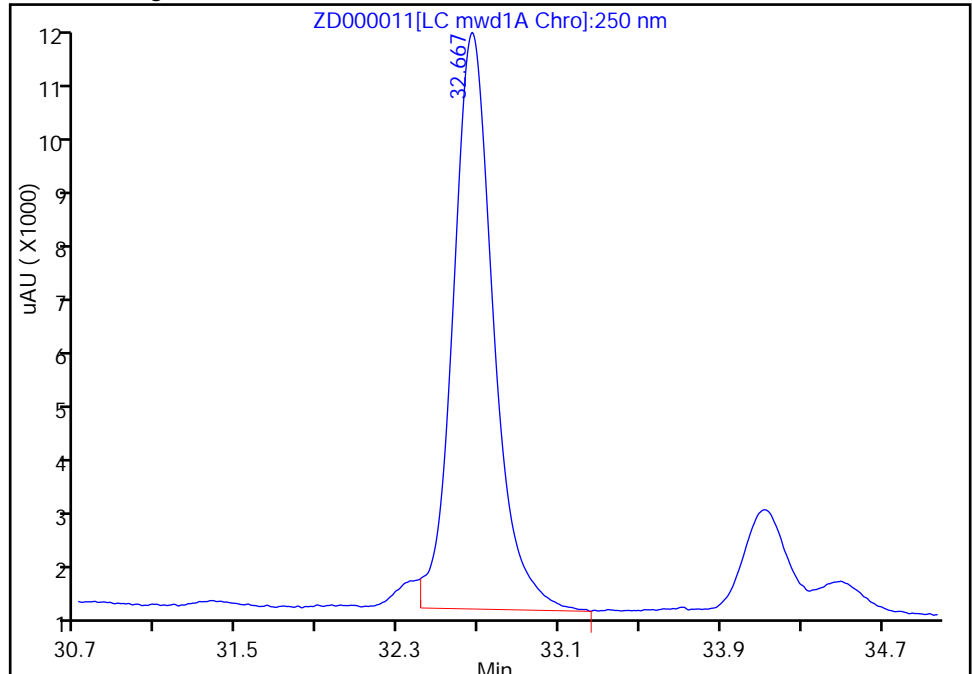
RT: 32.67
Response: 10227
Amount: 129.8351

Processing Integration Results



RT: 32.67
Response: 10227
Amount: 129.8351

Manual Integration Results



Reviewer: phant, 02-Jun-2014 07:42:58
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Client Sample ID: GW-DA-1-052314-(01) Lab Sample ID: 320-7661-2
 Matrix: Water Lab File ID: ZC000008.D
 Analysis Method: 8330A Date Collected: 05/23/2014 11:30
 Extraction Method: 8330-Prep Date Extracted: 05/28/2014 14:06
 Sample wt/vol: 986(mL) Date Analyzed: 05/29/2014 22:52
 Con. Extract Vol.: 20.00(mL) Dilution Factor: 1
 Injection Volume: 500(uL) GC Column: Zorbax CN ID: 4.6(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 43436 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	120	X	79-111

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20140529-12796.b\ZC000008.D
 Lims ID: 320-7661-A-2-A Lab Sample ID: 320-7661-2
 Client ID: GW-DA-1-052314-(01)
 Sample Type: Client
 Inject. Date: 29-May-2014 22:52:04 ALS Bottle#: 13 Worklist Smp#: 8
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012796-008
 Operator ID: TQP Instrument ID: LC12
 Method: \\SACChrom\ChromData\LC12\20140529-12796.b\LC12_Conf_8330.m
 Limit Group: LC 8330A ICAL
 Last Update: 02-Jun-2014 14:21:13 Calib Date: 27-May-2014 20:26:54
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC12\20140527-12737.b\ZA000008.D
 Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK029

First Level Reviewer: phant Date: 02-Jun-2014 14:21:20

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
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23	2,4-Dinitrotoluene					
1	33.222	33.246	-0.024	500H	6.13	
12	2,6-Dinitrotoluene					
1	34.256	34.256	0.000	369H	7.50	
\$ 30	3,4-Dinitrotoluene					
1	38.616	38.640	-0.024	7122H	150.0	

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140529-12796.b\ZC000008.D

Injection Date: 29-May-2014 22:52:04

Instrument ID: LC12

Operator ID: TQP

Lims ID: 320-7661-A-2-A

Lab Sample ID: 320-7661-2

Worklist Smp#: 8

Client ID: GW-DA-1-052314-(01)

Injection Vol: 500.0 ul

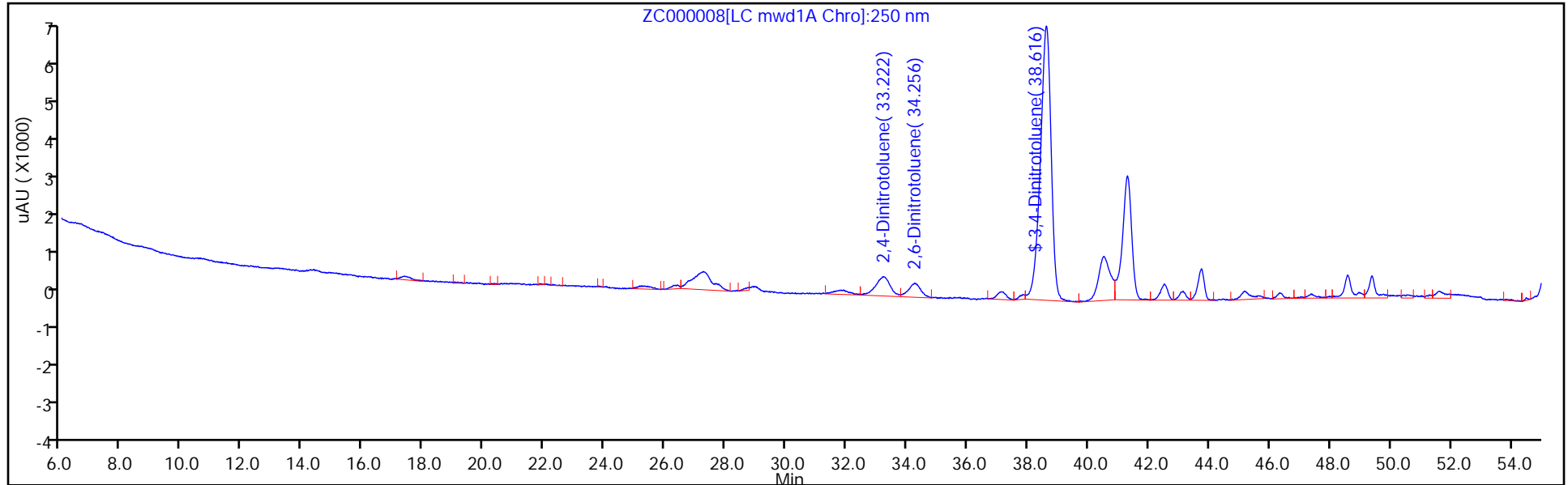
Dil. Factor: 1.0000

ALS Bottle#: 13

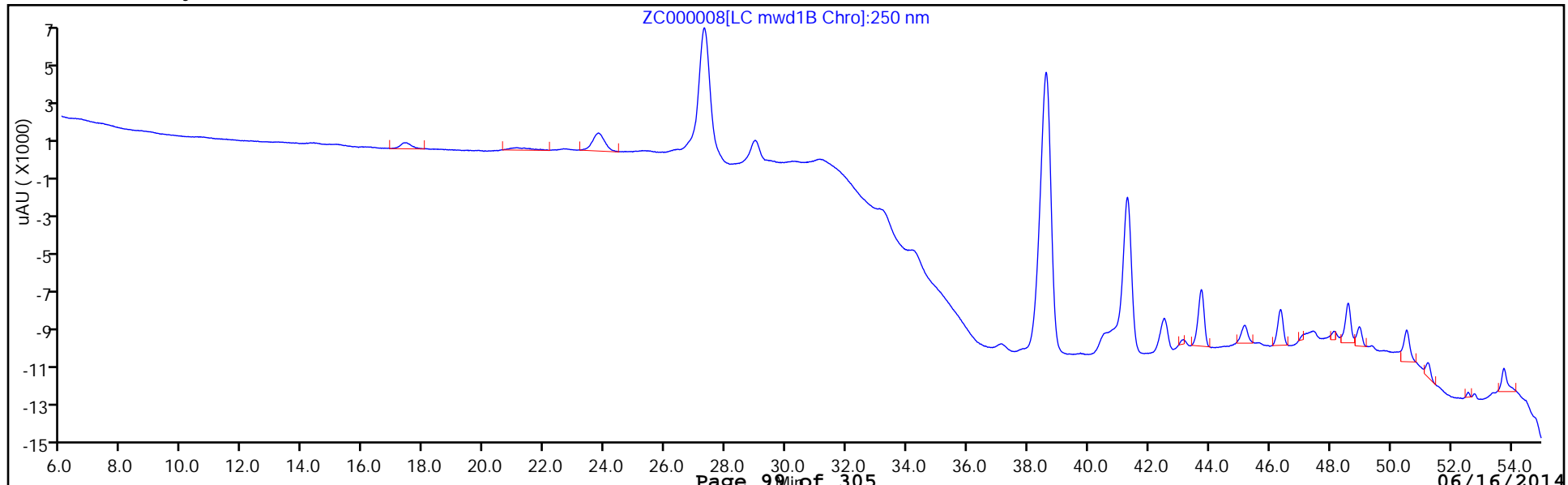
Method: LC12_Conf_8330

Limit Group: LC 8330A ICAL

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Client Sample ID: GW-DA-1-052314-(01) Lab Sample ID: 320-7661-2
 Matrix: Water Lab File ID: ZD000013.D
 Analysis Method: 8330A Date Collected: 05/23/2014 11:30
 Extraction Method: 8330-Prep Date Extracted: 05/28/2014 14:06
 Sample wt/vol: 986(mL) Date Analyzed: 05/31/2014 03:37
 Con. Extract Vol.: 20.00(mL) Dilution Factor: 1
 Injection Volume: 500(uL) GC Column: Synergi C18 ID: 4.6(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 43521 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	ND		0.10	
606-20-2	2,6-Dinitrotoluene	0.46	p	0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	105		79-111

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000013.D
 Lims ID: 320-7661-A-2-A Lab Sample ID: 320-7661-2
 Client ID: GW-DA-1-052314-(01)
 Sample Type: Client
 Inject. Date: 31-May-2014 03:37:36 ALS Bottle#: 19 Worklist Smp#: 13
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012820-013
 Operator ID: TQP Instrument ID: LC11
 Method: \\SACChrom\ChromData\LC11\20140530-12820.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 02-Jun-2014 14:07:28 Calib Date: 30-May-2014 05:16:15
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000020.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK029

First Level Reviewer: phant Date: 02-Jun-2014 14:08:15

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
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\$ 30	3,4-Dinitrotoluene					M
1	32.666	32.663	0.003	10308H	130.9	M
2	32.666	32.663	0.003	19827H	133.9	M
12	2,6-Dinitrotoluene					
1	34.120	34.146	-0.026	1826H	22.5	
23	2,4-Dinitrotoluene					
1	34.460	34.493	-0.033	564H	4.16	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000013.D

Injection Date: 31-May-2014 03:37:36

Instrument ID: LC11

Operator ID: TQP

Lims ID: 320-7661-A-2-A

Lab Sample ID: 320-7661-2

Worklist Smp#: 13

Client ID: GW-DA-1-052314-(01)

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

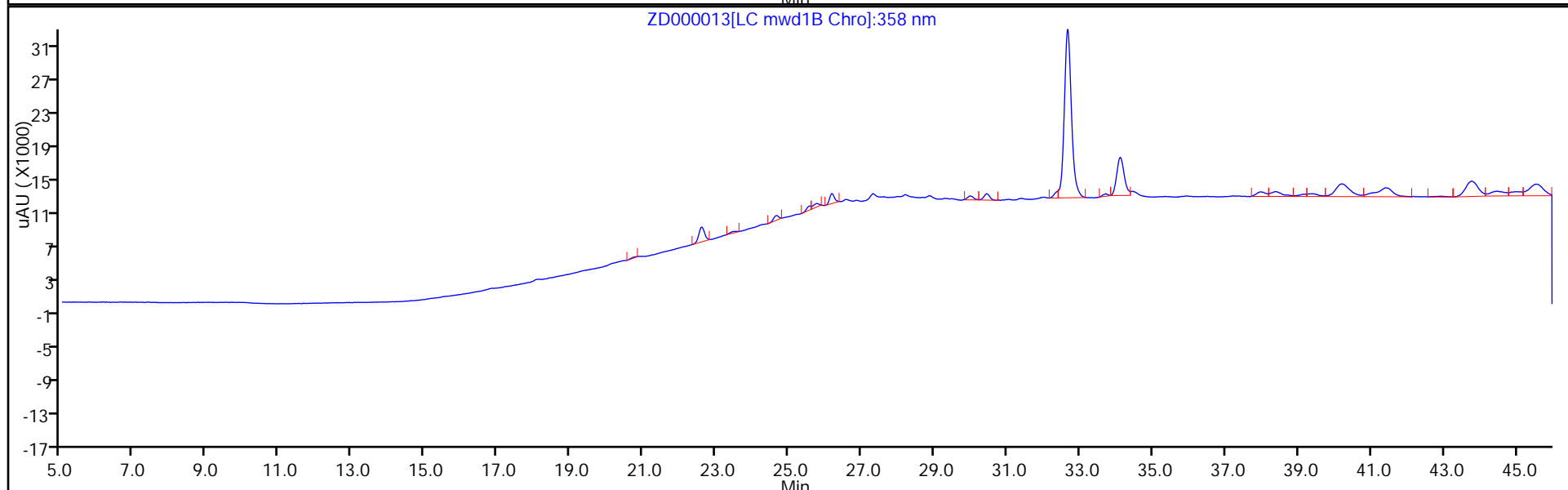
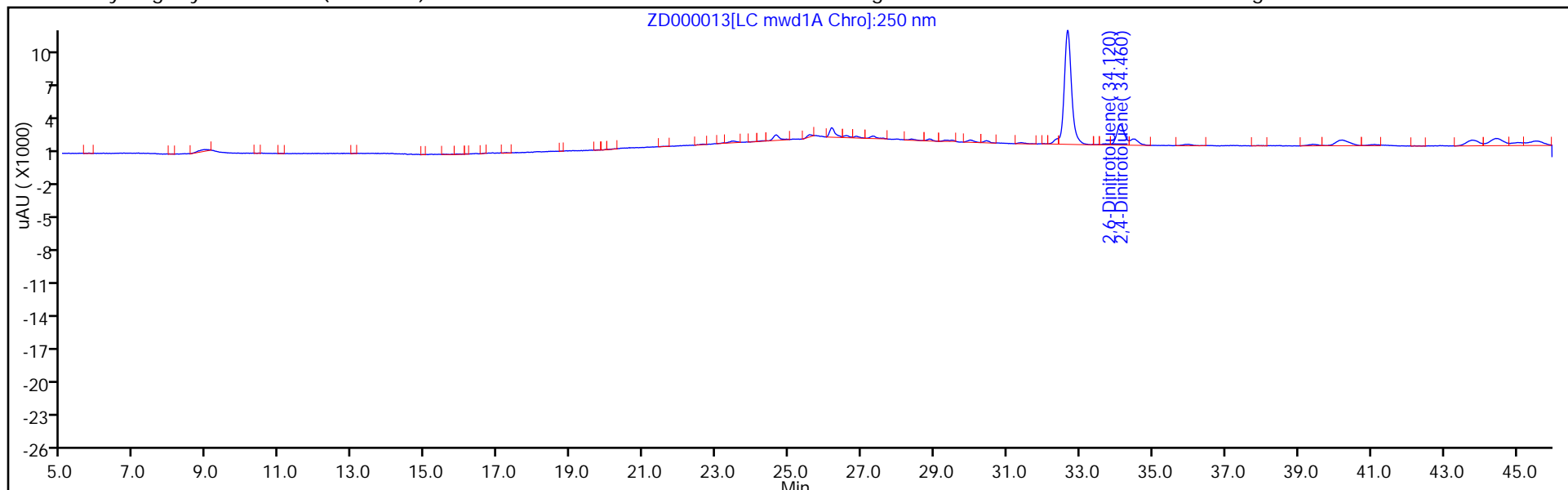
ALS Bottle#: 19

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



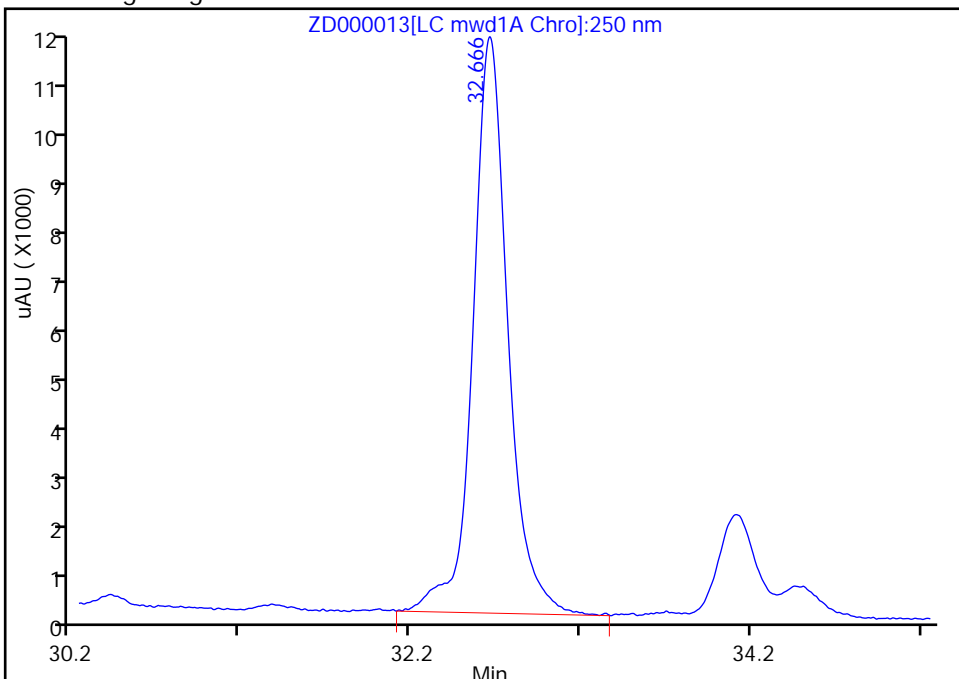
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000013.D
Injection Date: 31-May-2014 03:37:36 Instrument ID: LC11
Lims ID: 320-7661-A-2-A Lab Sample ID: 320-7661-2
Client ID: GW-DA-1-052314-(01)
Operator ID: TQP ALS Bottle#: 19 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector: LC mwd1A, 250 nm

\$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

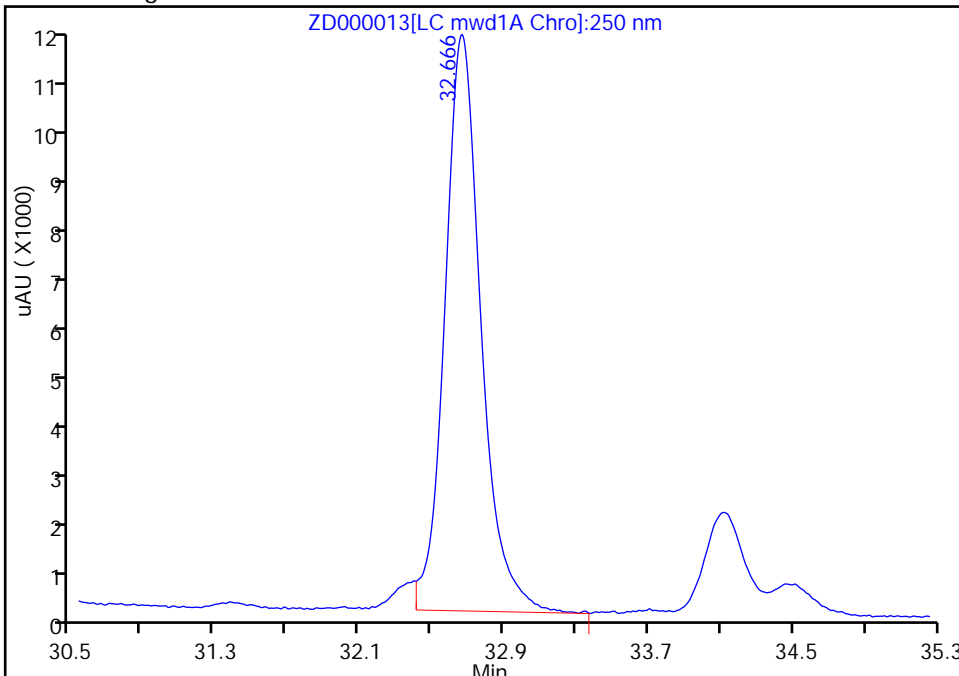
RT: 32.67
Response: 10308
Amount: 130.8635

Processing Integration Results



RT: 32.67
Response: 10308
Amount: 130.8635

Manual Integration Results



Reviewer: phant, 02-Jun-2014 07:44:34
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

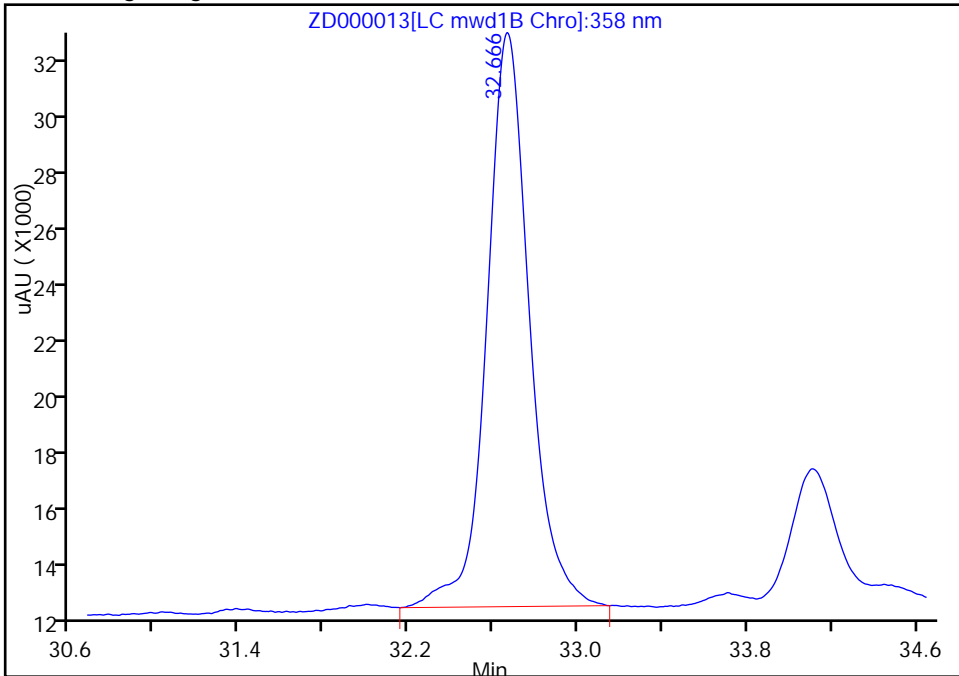
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000013.D
Injection Date: 31-May-2014 03:37:36 Instrument ID: LC11
Lims ID: 320-7661-A-2-A Lab Sample ID: 320-7661-2
Client ID: GW-DA-1-052314-(01)
Operator ID: TQP ALS Bottle#: 19 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

\$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

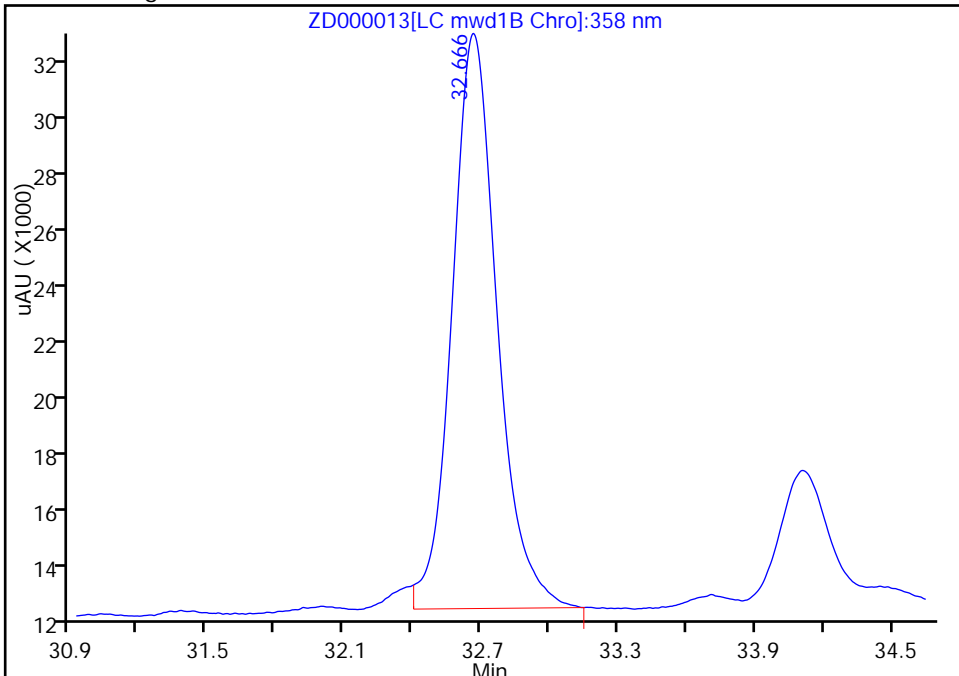
RT: 32.67
Response: 19827
Amount: 133.8647

Processing Integration Results



RT: 32.67
Response: 19827
Amount: 133.8647

Manual Integration Results



Reviewer: phant, 02-Jun-2014 07:44:34
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Client Sample ID: GW-DA-3-052314 Lab Sample ID: 320-7661-3
 Matrix: Water Lab File ID: ZC000009.D
 Analysis Method: 8330A Date Collected: 05/23/2014 13:00
 Extraction Method: 8330-Prep Date Extracted: 05/28/2014 14:06
 Sample wt/vol: 977.4 (mL) Date Analyzed: 05/29/2014 23:57
 Con. Extract Vol.: 20.00 (mL) Dilution Factor: 1
 Injection Volume: 500 (uL) GC Column: Zorbax CN ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 43436 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	130	X	79-111

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20140529-12796.b\ZC000009.D
 Lims ID: 320-7661-B-3-A Lab Sample ID: 320-7661-3
 Client ID: GW-DA-3-052314
 Sample Type: Client
 Inject. Date: 29-May-2014 23:57:40 ALS Bottle#: 14 Worklist Smp#: 9
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012796-009
 Operator ID: TQP Instrument ID: LC12
 Method: \\SACChrom\ChromData\LC12\20140529-12796.b\LC12_Conf_8330.m
 Limit Group: LC 8330A ICAL
 Last Update: 02-Jun-2014 14:21:13 Calib Date: 27-May-2014 20:26:54
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC12\20140527-12737.b\ZA000008.D
 Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK029

First Level Reviewer: phant Date: 02-Jun-2014 14:21:22

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
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23 2,4-Dinitrotoluene						
1	33.172	33.246	-0.074	519H	6.36	
12 2,6-Dinitrotoluene						
1	34.249	34.256	-0.007	313H	6.36	
\$ 30 3,4-Dinitrotoluene						
1	38.619	38.640	-0.021	7729H	162.8	

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140529-12796.b\ZC000009.D

Injection Date: 29-May-2014 23:57:40

Instrument ID: LC12

Operator ID: TQP

Lims ID: 320-7661-B-3-A

Lab Sample ID: 320-7661-3

Worklist Smp#: 9

Client ID: GW-DA-3-052314

Injection Vol: 500.0 ul

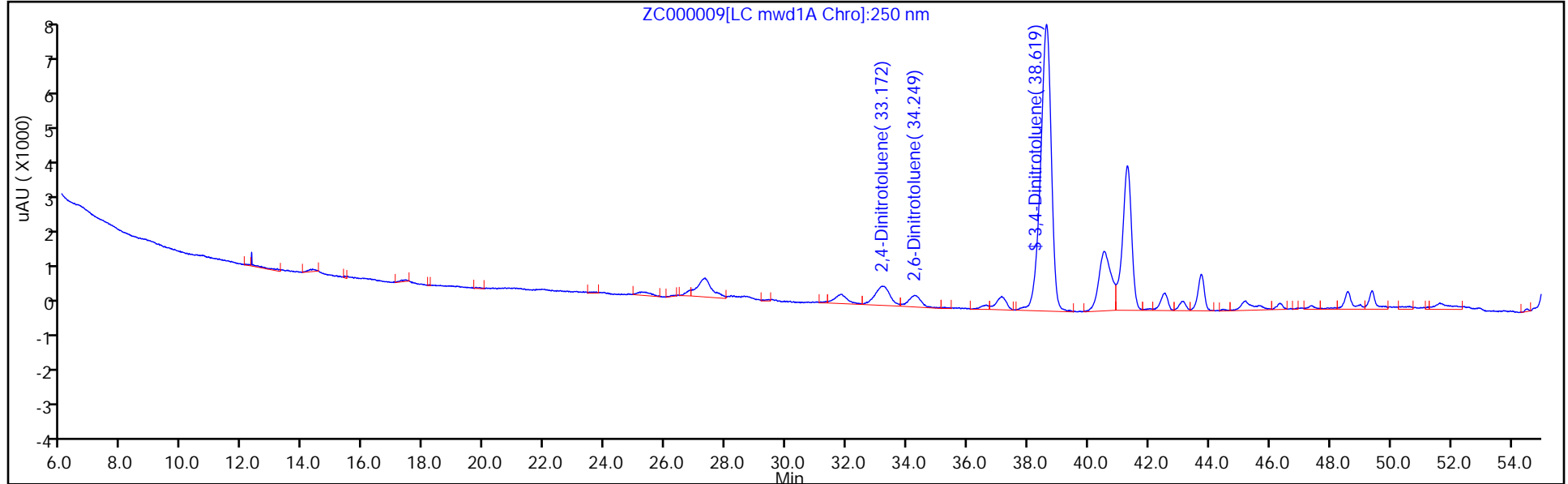
Dil. Factor: 1.0000

ALS Bottle#: 14

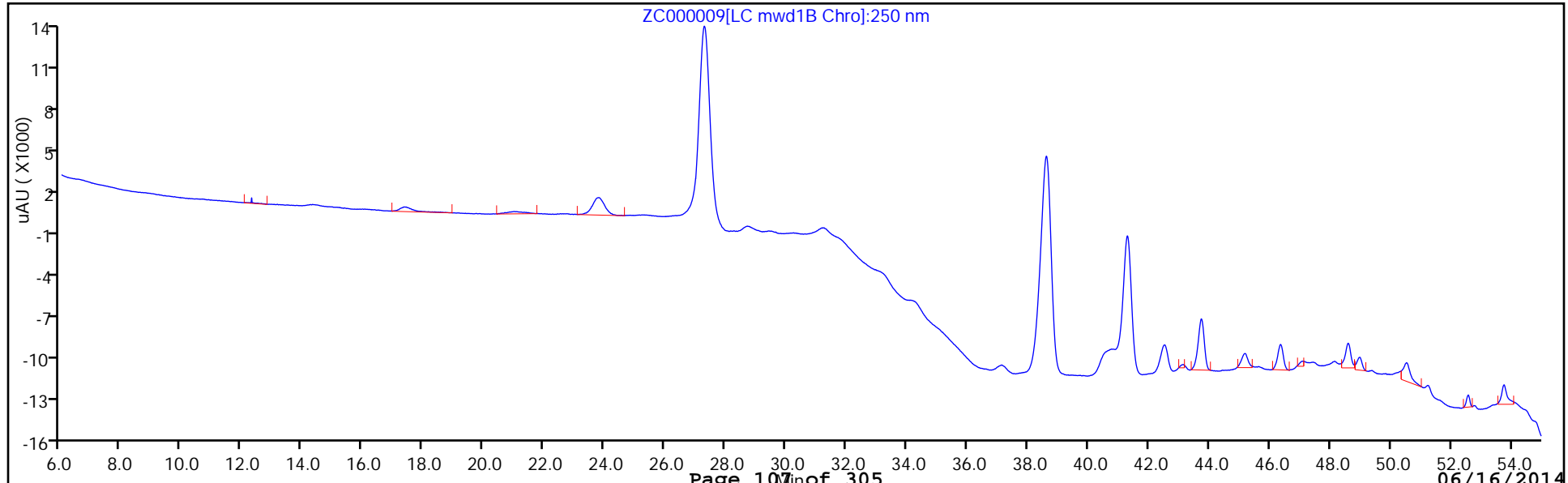
Method: LC12_Conf_8330

Limit Group: LC 8330A ICAL

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Client Sample ID: GW-DA-3-052314 Lab Sample ID: 320-7661-3
 Matrix: Water Lab File ID: ZD000015.D
 Analysis Method: 8330A Date Collected: 05/23/2014 13:00
 Extraction Method: 8330-Prep Date Extracted: 05/28/2014 14:06
 Sample wt/vol: 977.4 (mL) Date Analyzed: 05/31/2014 05:30
 Con. Extract Vol.: 20.00 (mL) Dilution Factor: 1
 Injection Volume: 500 (uL) GC Column: Synergi C18 ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 43521 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	ND		0.10	
606-20-2	2,6-Dinitrotoluene	0.43	p	0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	115	X	79-111

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000015.D
 Lims ID: 320-7661-B-3-A Lab Sample ID: 320-7661-3
 Client ID: GW-DA-3-052314
 Sample Type: Client
 Inject. Date: 31-May-2014 05:30:47 ALS Bottle#: 20 Worklist Smp#: 15
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012820-015
 Operator ID: TQP Instrument ID: LC11
 Method: \\SACChrom\ChromData\LC11\20140530-12820.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 02-Jun-2014 14:08:23 Calib Date: 30-May-2014 05:16:15
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000020.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK029

First Level Reviewer: phant Date: 02-Jun-2014 14:08:20

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
-----	-----------	---------------	---------------	----------	-----------------	-------

\$ 30	3,4-Dinitrotoluene					M
1	32.663	32.654	0.009	11278H	143.2	M
2	32.663	32.657	0.006	21656H	146.2	M
12	2,6-Dinitrotoluene					
1	34.106	34.137	-0.031	1690H	20.9	
23	2,4-Dinitrotoluene					
1	34.486	34.487	-0.001	507H	3.74	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000015.D

Injection Date: 31-May-2014 05:30:47

Instrument ID: LC11

Operator ID: TQP

Lims ID: 320-7661-B-3-A

Lab Sample ID: 320-7661-3

Worklist Smp#: 15

Client ID: GW-DA-3-052314

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

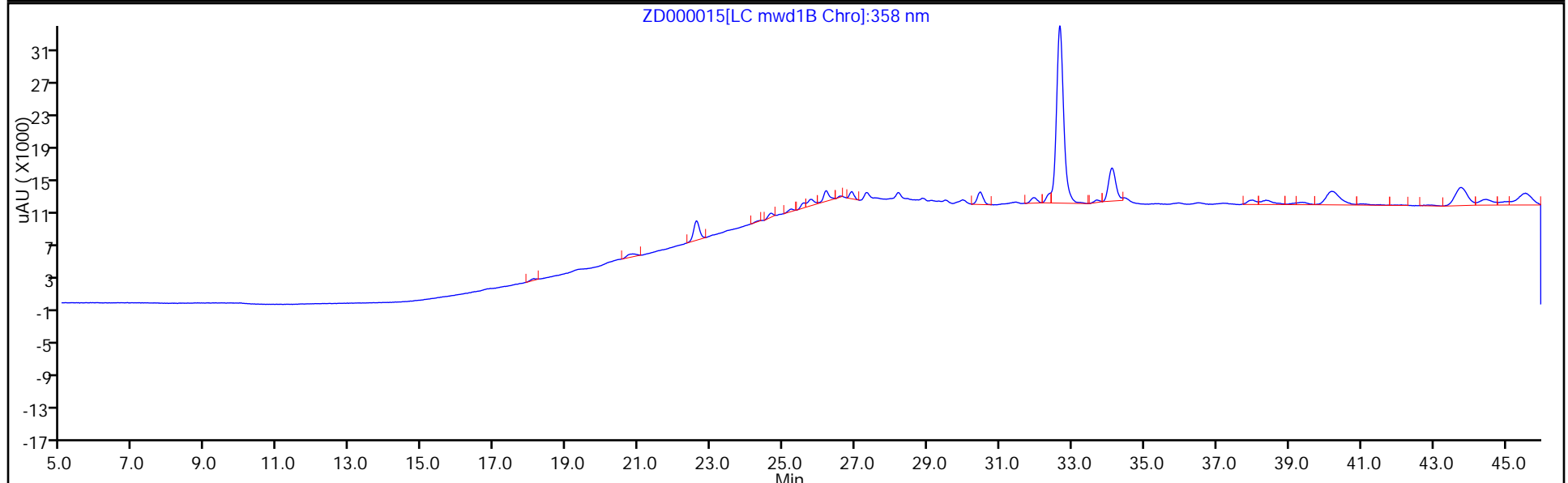
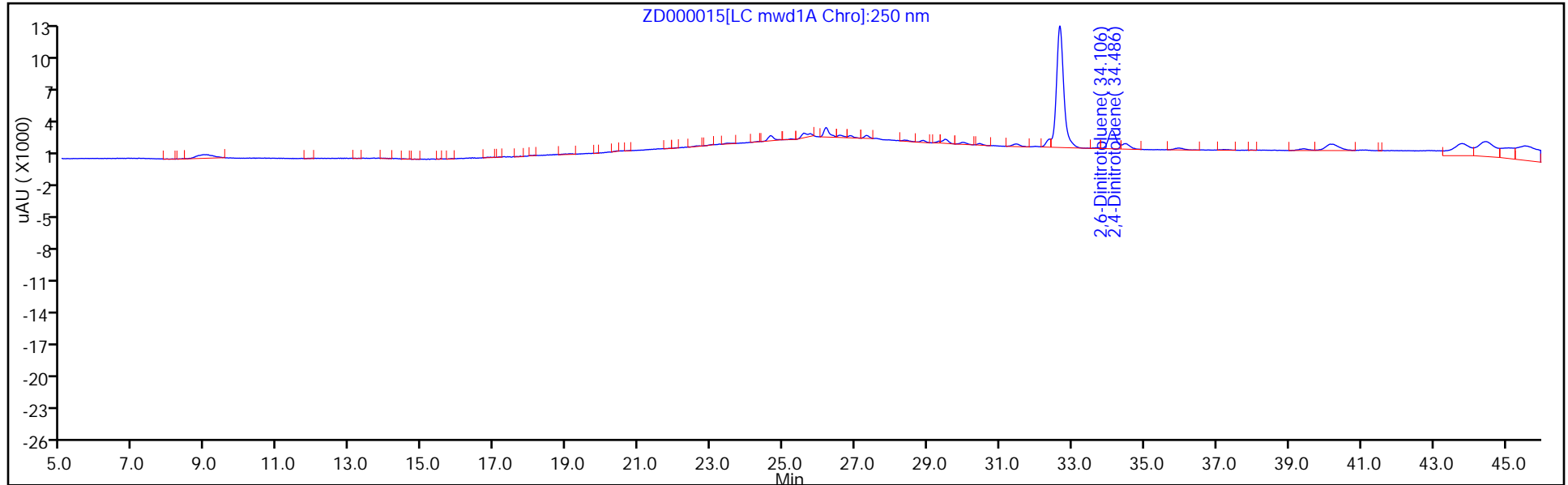
ALS Bottle#: 20

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



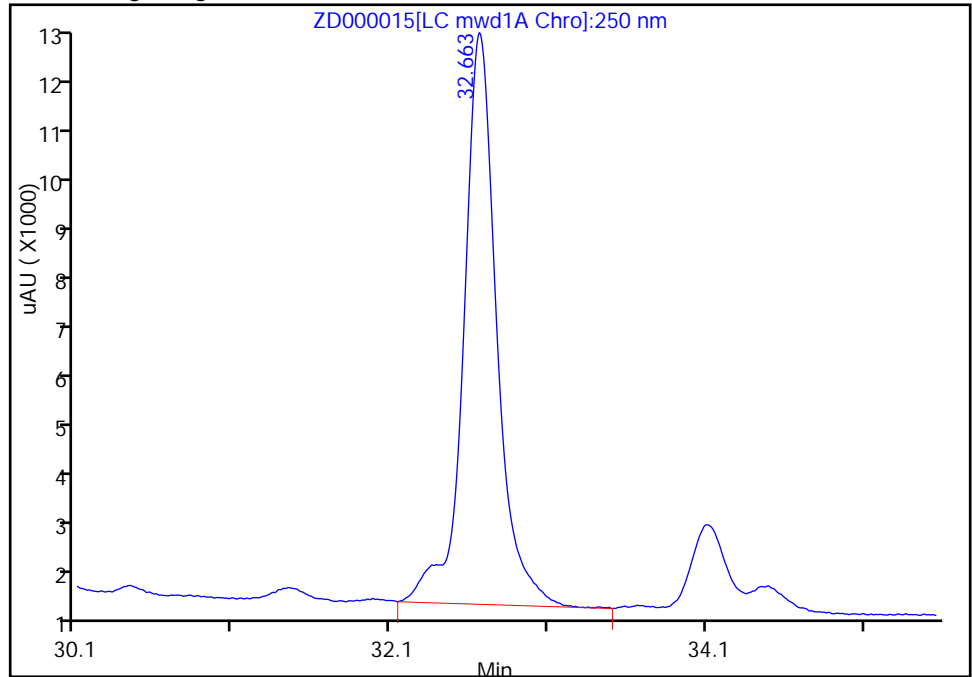
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000015.D
Injection Date: 31-May-2014 05:30:47 Instrument ID: LC11
Lims ID: 320-7661-B-3-A Lab Sample ID: 320-7661-3
Client ID: GW-DA-3-052314
Operator ID: TQP ALS Bottle#: 20 Worklist Smp#: 15
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

\$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

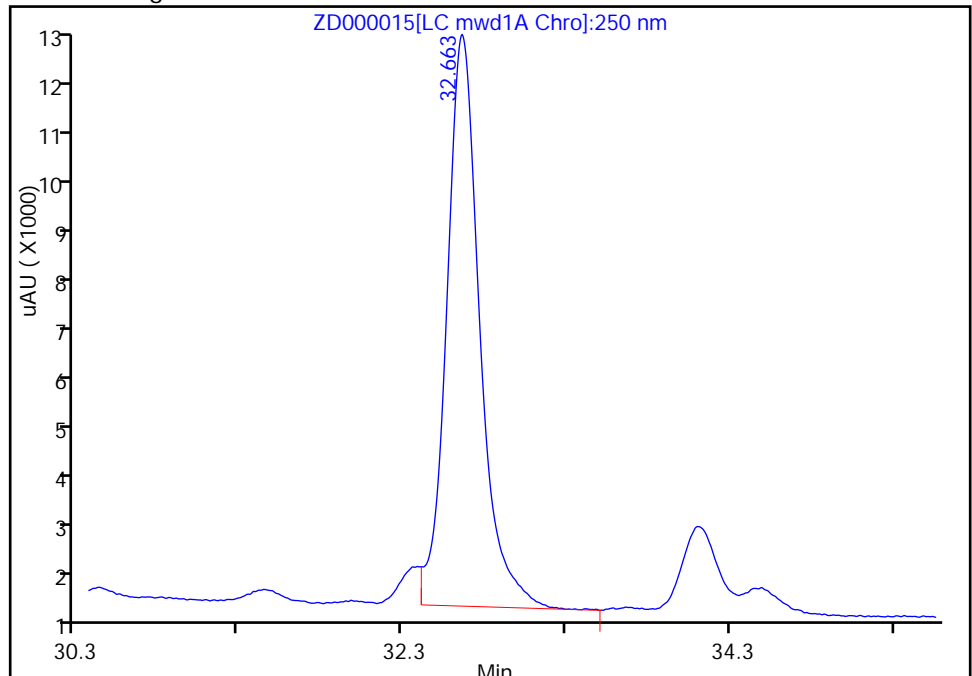
RT: 32.66
Response: 11279
Amount: 143.1906

Processing Integration Results



RT: 32.66
Response: 11278
Amount: 143.1779

Manual Integration Results



Reviewer: phant, 02-Jun-2014 07:45:34
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

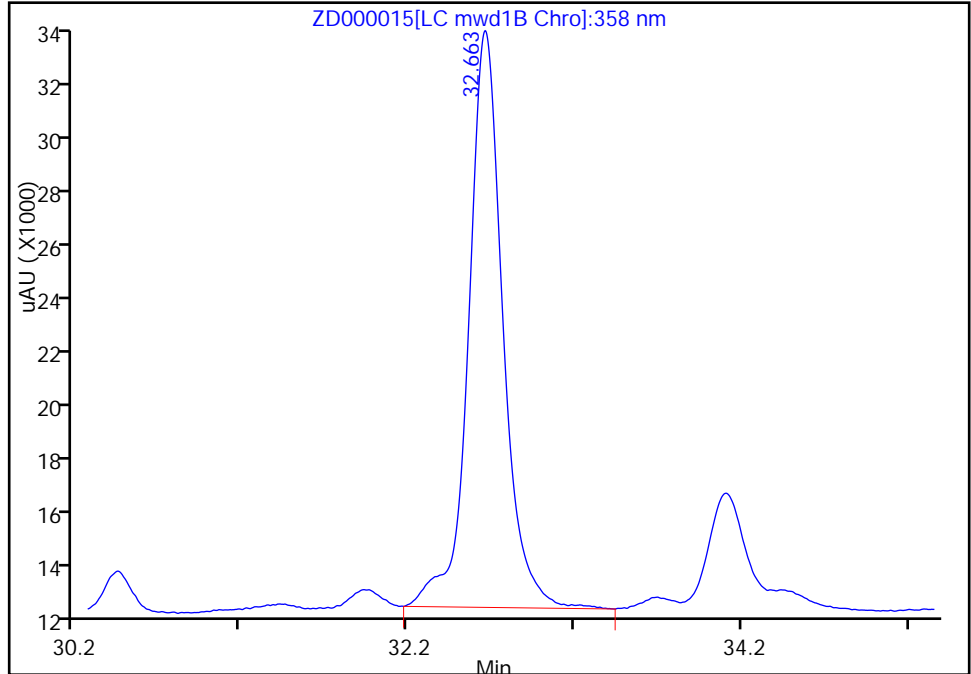
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000015.D
Injection Date: 31-May-2014 05:30:47 Instrument ID: LC11
Lims ID: 320-7661-B-3-A Lab Sample ID: 320-7661-3
Client ID: GW-DA-3-052314
Operator ID: TQP ALS Bottle#: 20 Worklist Smp#: 15
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

\$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

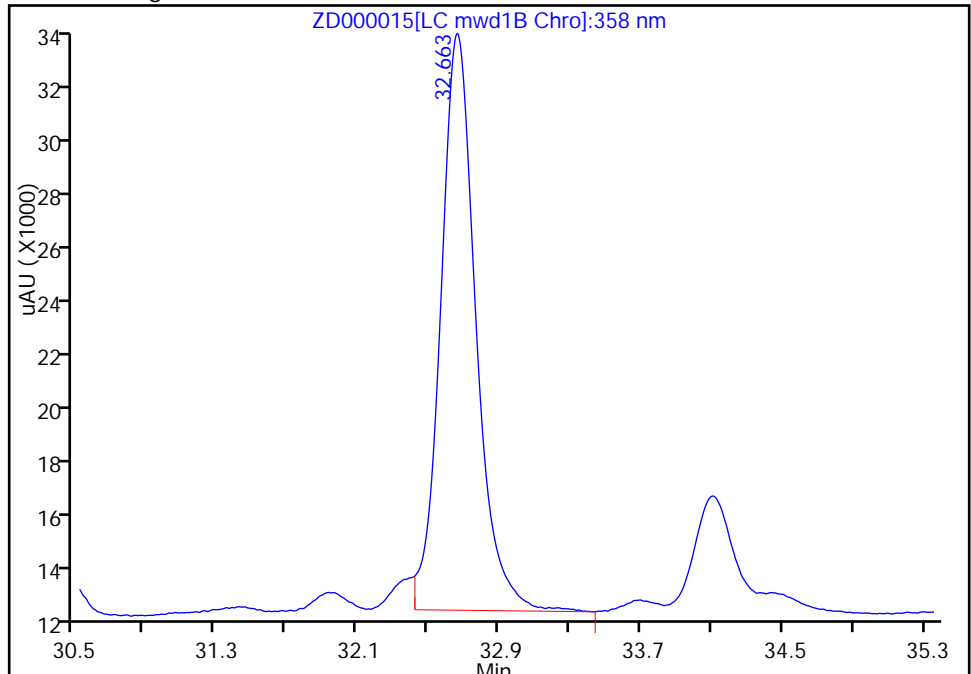
RT: 32.66
Response: 21657
Amount: 146.2202

Processing Integration Results



RT: 32.66
Response: 21656
Amount: 146.2134

Manual Integration Results



Reviewer: phant, 02-Jun-2014 07:45:34
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1 Analy Batch No.: 43369

SDG No.: _____

Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/29/2014 14:10 Calibration End Date: 05/30/2014 05:16 Calibration ID: 7483

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 320-43369/4	ZC000004.D
Level 2	STD2 320-43369/5	ZC000005.D
Level 3	STD3 320-43369/6	ZC000006.D
Level 4	STD3 320-43369/16	ZC000016.D
Level 5	STD4 320-43369/7	ZC000007.D
Level 6	STD4 320-43369/17	ZC000017.D
Level 7	STD5 320-43369/8	ZC000008.D
Level 8	STD5 320-43369/18	ZC000018.D
Level 9	STD6 320-43369/9	ZC000009.D
Level 10	STD6 320-43369/19	ZC000019.D
Level 11	STD7 320-43369/10	ZC000010.D
Level 12	STD7 320-43369/20	ZC000020.D
Level 13	STD8 320-43369/11	ZC000011.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	RT WINDOW	AVG RT
	LVL 11	LVL 12	LVL 13									
TNX		15.404		15.406		15.415		15.422		15.418	15.168 - 15.668	15.413
DNX		19.247		19.259		19.255		19.259		19.254	19.004 - 19.504	19.255
HMX	20.635 20.578	20.603	20.594 20.557		20.588		20.590		20.585		20.335 - 20.835	20.591
MNX		22.027		22.036		22.035		22.035		22.031	21.781 - 22.281	22.033
RDX	23.845 23.818	23.830	23.838 23.797		23.831		23.833		23.828		23.578 - 24.078	23.828
1,3,5-Trinitrobenzene	25.769 25.751	25.756	25.761 25.737		25.758		25.760		25.755		25.505 - 26.005	25.756
Picric acid	26.192 26.048	26.176	26.164 25.970		26.154		26.140		26.095		25.845 - 26.345	26.117
1,3-Dinitrobenzene	28.379 28.365	28.376	28.374 28.350		28.378		28.376		28.371		28.121 - 28.621	28.371
3,5-Dinitroaniline	29.492 29.478	29.480	29.484 29.464		29.491		29.490		29.488		29.238 - 29.738	29.483
Nitrobenzene	29.875 29.865	29.876	29.878 29.847		29.878		29.876		29.875		29.625 - 30.125	29.871
Tetryl	30.335 30.328	30.333	30.331 30.320		30.334		30.336		30.331		30.081 - 30.581	30.331
Nitroglycerin	30.785 30.771	30.783	30.781 30.760		30.778		30.780		30.775		30.525 - 31.025	30.777
2,4,6-Trinitrotoluene	31.492 31.475	31.480	31.481 31.467		31.484		31.483		31.481		31.231 - 31.731	31.480

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1 Analy Batch No.: 43369

SDG No.: _____

Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/29/2014 14:10 Calibration End Date: 05/30/2014 05:16 Calibration ID: 7483

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	RT WINDOW	AVG RT
	LVL 11	LVL 12	LVL 13									
4-Amino-2,6-dinitrotoluene	32.382 32.351	32.356	32.358 32.337		32.364		32.363		32.361		32.111 - 32.611	32.359
2-Amino-4,6-dinitrotoluene	32.985 32.975	32.980	32.984 32.957		32.991		32.990		32.985		32.735 - 33.235	32.981
2,6-Dinitrotoluene	34.149 34.138	34.153	34.144 34.127		34.151		34.150		34.145		33.895 - 34.395	34.145
2,4-Dinitrotoluene	34.502 34.485	34.496	34.488 34.470		34.498		34.496		34.491		34.241 - 34.741	34.491
2-Nitrotoluene	37.229 37.208	37.233	37.224 37.190		37.228		37.220		37.215		36.965 - 37.465	37.218
4-Nitrotoluene	38.412 38.401	38.406	38.397 38.384		38.421		38.416		38.408		38.158 - 38.658	38.406
3-Nitrotoluene	39.859 39.848	39.856	39.854 39.830		39.864		39.866		39.858		39.608 - 40.108	39.854
PETN	40.965 40.938	40.956	40.937 40.934		40.961		40.940		40.938		40.688 - 41.188	40.946
3,4-Dinitrotoluene	32.655 32.651	32.666	32.654 32.640		32.664		32.660		32.658		32.408 - 32.908	32.656

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1 Analy Batch No.: 43369

SDG No.: _____

Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/29/2014 14:10 Calibration End Date: 05/30/2014 05:16 Calibration ID: 7483

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 320-43369/4	ZC000004.D
Level 2	STD2 320-43369/5	ZC000005.D
Level 3	STD3 320-43369/6	ZC000006.D
Level 4	STD3 320-43369/16	ZC000016.D
Level 5	STD4 320-43369/7	ZC000007.D
Level 6	STD4 320-43369/17	ZC000017.D
Level 7	STD5 320-43369/8	ZC000008.D
Level 8	STD5 320-43369/18	ZC000018.D
Level 9	STD6 320-43369/9	ZC000009.D
Level 10	STD6 320-43369/19	ZC000019.D
Level 11	STD7 320-43369/10	ZC000010.D
Level 12	STD7 320-43369/20	ZC000020.D
Level 13	STD8 320-43369/11	ZC000011.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 5 LVL 9 LVL 13	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7 LVL 11	LVL 4 LVL 8 LVL 12		B	M1	M2								
TNX		70.304 69.016		69.006 69.895 67.434	Ave		69.1309883			1.6			20.0			
DNX		86.866 85.691		86.826 86.866 83.811	Ave		86.0118315			1.5			20.0			
HMX	97.000 91.100 91.635 75.617	97.200	100.30 93.310 84.470		Ave		91.3290000			8.7			20.0			
MNX		107.42 105.78		105.35 106.92 104.09	Ave		105.915201			1.2			20.0			
RDX	94.400 91.460 91.140 72.961	96.000	100.60 93.740 83.090		Ave		90.4238750			9.5			20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1 Analy Batch No.: 43369

SDG No.: _____

Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/29/2014 14:10 Calibration End Date: 05/30/2014 05:16 Calibration ID: 7483

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 5 LVL 9 LVL 13	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7 LVL 11	LVL 4 LVL 8 LVL 12		B	M1	M2								
1,3,5-Trinitrobenzene	245.40 211.16 212.07 197.86	232.90	233.00 215.47 201.53		Ave		218.673250			7.7		20.0				
Picric acid	166.10 185.55 177.24 138.11	174.00	181.80 186.13 159.82		Ave		171.094563			9.5		20.0				
1,3-Dinitrobenzene	225.80 219.46 223.81 208.23	229.20	238.50 226.20 212.06		Ave		222.907375			4.3		20.0				
3,5-Dinitroaniline	154.00 149.92 152.51 143.52	157.80	162.35 153.86 145.71		Ave		152.457875			4.0		20.0				
Nitrobenzene	102.60 100.14 102.02 94.740	100.80	108.80 102.79 95.578		Ave		100.932875			4.4		20.0				
Tetryl	123.00 124.44 128.01 128.62	128.50	132.15 127.74 124.83		Ave		127.160625			2.3		20.0				
Nitroglycerin	92.800 96.500 98.125 93.214	82.400	99.500 97.830 97.262		Ave		94.7038750			5.8		20.0				
2,4,6-Trinitrotoluene	133.20 126.68 129.75 130.55	132.80	135.85 130.23 126.49		Ave		130.693125			2.5		20.0				
4-Amino-2,6-dinitrotoluene	102.80 100.36 102.81 102.18	107.10	109.95 103.17 99.382		Ave		103.469000			3.4		20.0				

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1 Analy Batch No.: 43369

SDG No.: _____

Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/29/2014 14:10 Calibration End Date: 05/30/2014 05:16 Calibration ID: 7483

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9 LVL 13	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7 LVL 11	LVL 4 LVL 8 LVL 12		B	M1	M2								
2-Amino-4,6-dinitrotoluene	118.20 117.36 120.06 118.62	125.20	127.35 120.90 116.03		Ave		120.464250			3.3			20.0			
2,6-Dinitrotoluene	80.600 78.620 80.805 81.523	82.100	85.100 81.110 77.990		Ave		80.9810000			2.7			20.0			
2,4-Dinitrotoluene	134.00 131.76 135.69 136.62	137.00	143.25 136.33 131.26		Ave		135.737125			2.8			20.0			
2-Nitrotoluene	63.600 57.680 59.040 59.076	58.200	62.250 59.250 56.280		Ave		59.4220000			4.0			20.0			
4-Nitrotoluene	74.400 70.820 72.330 72.794	72.900	75.700 72.780 69.070		Ave		72.5992500			2.8			20.0			
3-Nitrotoluene	69.400 64.960 66.610 67.342	66.700	70.250 66.920 63.652		Ave		66.9792500			3.2			20.0			
PETN	56.600 54.020 53.765 52.853	47.300	56.200 53.960 54.060		Ave		53.5947500			5.3			20.0			
3,4-Dinitrotoluene	78.400 77.120 78.190 75.139	85.000	83.300 78.430 74.574		Ave		78.7691250			4.6			20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1 Analy Batch No.: 43369

SDG No.: _____

Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/29/2014 14:10 Calibration End Date: 05/30/2014 05:16 Calibration ID: 7483

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 320-43369/4	ZC000004.D
Level 2	STD2 320-43369/5	ZC000005.D
Level 3	STD3 320-43369/6	ZC000006.D
Level 4	STD3 320-43369/16	ZC000016.D
Level 5	STD4 320-43369/7	ZC000007.D
Level 6	STD4 320-43369/17	ZC000017.D
Level 7	STD5 320-43369/8	ZC000008.D
Level 8	STD5 320-43369/18	ZC000018.D
Level 9	STD6 320-43369/9	ZC000009.D
Level 10	STD6 320-43369/19	ZC000019.D
Level 11	STD7 320-43369/10	ZC000010.D
Level 12	STD7 320-43369/20	ZC000020.D
Level 13	STD8 320-43369/11	ZC000011.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 2	LVL 3	LVL 4	LVL 5	
		LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 7	LVL 8	LVL 9	LVL 10	
TNX	Ave	3520	33763	6999	1382	13822	50.1	501	100	20.0	200
DNX	Ave	4342	41893	8684	1736	17133	50.0	500	100.0	20.0	200
HMX	Ave	485	972	2006	18327	4555	5.00	10.0	20.0	200	50.0
MNX	Ave	42235	9331	75617	2107	21156	500	100	1000	20.0	200
RDX	Ave	472	960	2012	18228	4573	5.00	10.0	20.0	200	50.0
1,3,5-Trinitrobenzene	Ave	41545	9374	72961	42413	10558	500	100	1000	20.0	50.0
Picric acid	Ave	1227	2329	4660	88622	18555	5.00	20.0	50.0	200	100
1,3-Dinitrobenzene	Ave	100764	21547	197863	44761	10973	500	200	2000	20.0	50.0
		1661	3480	9090	208232		1000	200	2000	200	
		159823	37225	276229			1000	100	2000	200	
		1129	2292	4770			5.00	100	20.0	200	50.0
		106031	22620	208232			500	100	1000		

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1 Analy Batch No.: 43369

SDG No.: _____

Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/29/2014 14:10 Calibration End Date: 05/30/2014 05:16 Calibration ID: 7483

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10
3,5-Dinitroaniline	Ave	770 72856	1578 15386	3247 143516	30501	7496	5.00 500	10.0 100	20.0 1000	200	50.0
Nitrobenzene	Ave	513 47789	1008 10279	2176 94740	20403	5007	5.00 500	10.0 100	20.0 1000	200	50.0
Tetryl	Ave	615 62416	1285 12774	2643 128618	25601	6222	5.00 500	10.0 100	20.0 1000	200	50.0
Nitroglycerin	Ave	464 48631	824 9783	1990 93214	19625	4825	5.00 500	10.0 100	20.0 1000	200	50.0
2,4,6-Trinitrotoluene	Ave	666 63244	1328 13023	2717 130547	25950	6334	5.00 500	10.0 100	20.0 1000	200	50.0
4-Amino-2,6-dinitrotoluene	Ave	514 49691	1071 10317	2199 102180	20562	5018	5.00 500	10.0 100	20.0 1000	200	50.0
2-Amino-4,6-dinitrotoluene	Ave	591 58017	1252 12090	2547 118615	24011	5868	5.00 500	10.0 100	20.0 1000	200	50.0
2,6-Dinitrotoluene	Ave	403 38995	821 8111	1702 81523	16161	3931	5.00 500	10.0 100	20.0 1000	200	50.0
2,4-Dinitrotoluene	Ave	670 65628	1370 13633	2865 136616	27137	6588	5.00 500	10.0 100	20.0 1000	200	50.0
2-Nitrotoluene	Ave	318 28140	582 5925	1245 59076	11808	2884	5.00 500	10.0 100	20.0 1000	200	50.0
4-Nitrotoluene	Ave	372 34535	729 7278	1514 72794	14466	3541	5.00 500	10.0 100	20.0 1000	200	50.0
3-Nitrotoluene	Ave	347 31826	667 6692	1405 67342	13322	3248	5.00 500	10.0 100	20.0 1000	200	50.0
PETN	Ave	283 27030	473 5396	1124 52853	10753	2701	5.00 500	10.0 100	20.0 1000	200	50.0

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1 Analy Batch No.: 43369

SDG No.: _____

Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/29/2014 14:10 Calibration End Date: 05/30/2014 05:16 Calibration ID: 7483

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
		LVL 11	LVL 12	LVL 13		LVL 11	LVL 12	LVL 13			
3,4-Dinitrotoluene	Ave	392	850	1666		3856	5.00	10.0	20.0		50.0
			7843		15638			100		200	
		37287		75139			500		1000		

Curve Type Legend:

Ave = Average by Height

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000004.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 29-May-2014 14:10:33 ALS Bottle#: 3 Worklist Smp#: 4
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012781-004
 Operator ID: TQP Instrument ID: LC11
 Sublist: chrom-8330 Metab LC11*sub6
 Method: \\SACChrom\ChromData\LC11\20140529-12781.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 30-May-2014 13:32:55 Calib Date: 29-May-2014 20:46:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000011.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK026

First Level Reviewer: phant Date: 29-May-2014 16:36:30

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

11 HMX							
1	20.635	20.585	0.050	485H	5.00	5.31	
19 RDX							
1	23.845	23.828	0.017	472H	5.00	5.22	
27 1,3,5-Trinitrobenzene							
1	25.769	25.755	0.014	1227H	5.00	5.61	
10 2,4,6-Trinitrophenol							
2	26.192	26.095	0.097	1661H	10.0	9.71	
1	26.185	26.095	0.090	1232H	10.0	10.3	
24 1,3-Dinitrobenzene							
1	28.379	28.371	0.008	1129H	5.00	5.06	
9 3,5-Dinitroaniline							
1	29.492	29.488	0.004	770H	5.00	5.05	
5 Nitrobenzene							
1	29.875	29.875	0.000	513H	5.00	5.08	
20 Tetryl							
1	30.335	30.331	0.004	615H	5.00	4.84	
7 Nitroglycerin							
2	30.785	30.775	0.010	464H	5.00	4.90	
25 2,4,6-Trinitrotoluene							
1	31.492	31.481	0.011	666H	5.00	5.10	
26 4-Amino-2,6-dinitrotoluene							
1	32.382	32.361	0.021	514H	5.00	4.97	
\$ 30 3,4-Dinitrotoluene							
1	32.655	32.658	-0.003	392H	5.00	4.98	M
2	32.669	32.658	0.011	710H	5.00	4.79	M
6 2-Amino-4,6-dinitrotoluene							
1	32.985	32.985	0.000	591H	5.00	4.91	

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000004.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12	2,6-Dinitrotoluene						
1	34.149	34.145	0.004	403H	5.00	4.98	
23	2,4-Dinitrotoluene						
1	34.502	34.491	0.011	670H	5.00	4.94	
16	o-Nitrotoluene						
1	37.229	37.215	0.014	318H	5.00	5.35	
15	p-Nitrotoluene						
1	38.412	38.408	0.004	372H	5.00	5.12	
8	m-Nitrotoluene						
1	39.859	39.858	0.001	347H	5.00	5.18	
21	PETN						
2	40.965	40.938	0.027	283H	5.00	5.28	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000004.D

Injection Date: 29-May-2014 14:10:33

Instrument ID: LC11

Operator ID: TQP

Lims ID: STD1

Worklist Smp#: 4

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

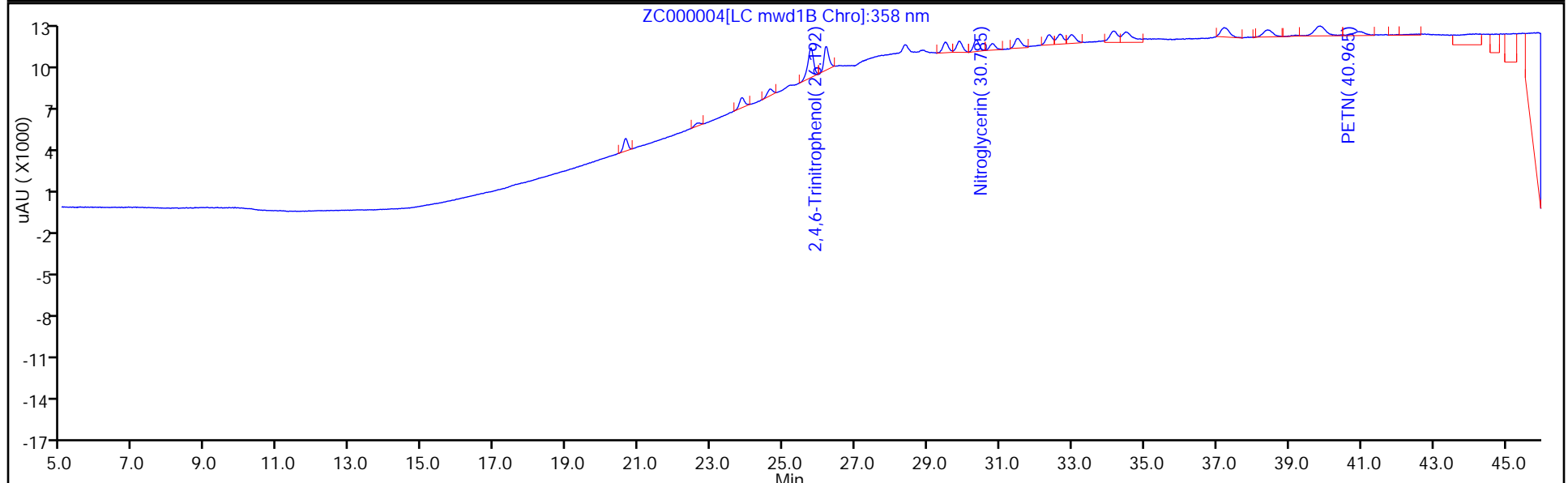
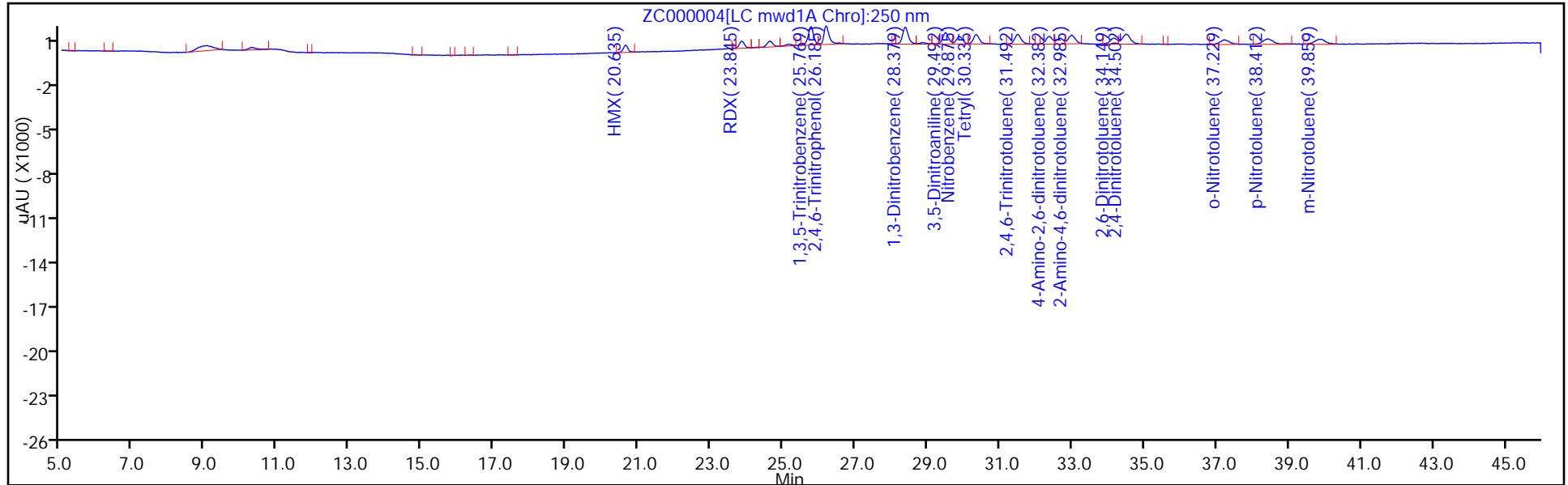
ALS Bottle#: 3

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



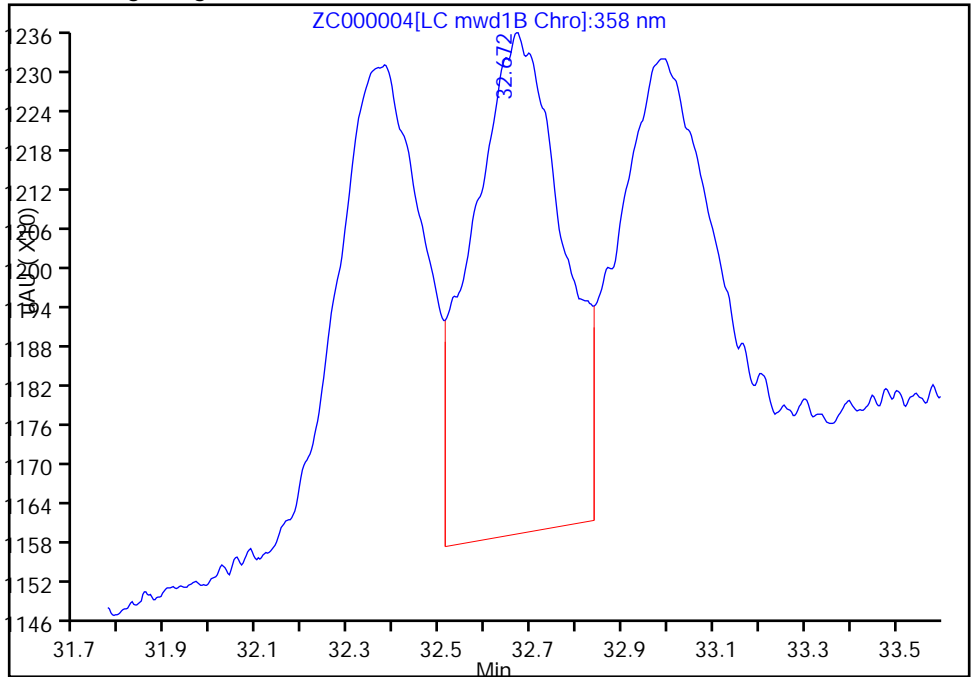
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000004.D
Injection Date: 29-May-2014 14:10:33 Instrument ID: LC11
Lims ID: STD1
Client ID:
Operator ID: TQP ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

\$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

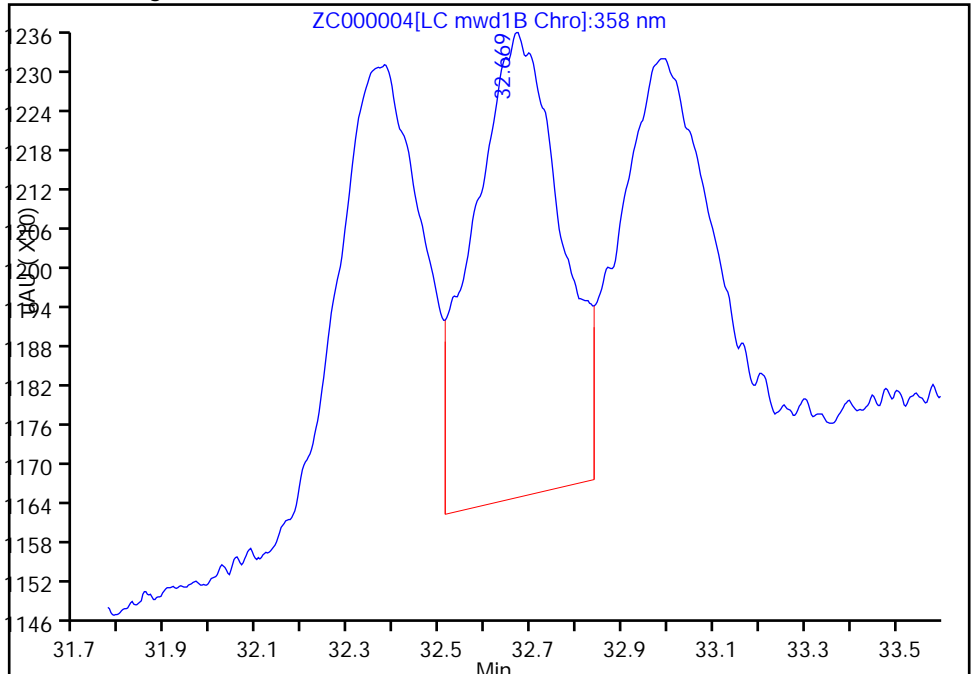
RT: 32.67
Response: 765
Amount: 5.082980

Processing Integration Results



RT: 32.67
Response: 710
Amount: 4.793662

Manual Integration Results



Reviewer: phant, 30-May-2014 10:23:10
Audit Action: Assigned New Baseline
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000005.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 29-May-2014 15:06:51 ALS Bottle#: 4 Worklist Smp#: 5
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012781-005
 Operator ID: TQP Instrument ID: LC11
 Sublist: chrom-8330 Metab LC11*sub6
 Method: \\SACChrom\ChromData\LC11\20140529-12781.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 30-May-2014 13:32:56 Calib Date: 29-May-2014 20:46:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000011.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK026

First Level Reviewer: phant Date: 29-May-2014 16:36:21

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
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11 HMX							
1	20.603	20.585	0.018	972H	10.0	10.6	
19 RDX							
1	23.830	23.828	0.002	960H	10.0	10.6	
27 1,3,5-Trinitrobenzene							
1	25.756	25.755	0.001	2329H	10.0	10.7	
10 2,4,6-Trinitrophenol							
2	26.176	26.095	0.081	3480H	20.0	20.3	
1	26.176	26.095	0.081	2442H	20.0	20.5	
24 1,3-Dinitrobenzene							
1	28.376	28.371	0.005	2292H	10.0	10.3	
9 3,5-Dinitroaniline							
1	29.480	29.488	-0.008	1578H	10.0	10.4	
5 Nitrobenzene							
1	29.876	29.875	0.001	1008H	10.0	9.99	
20 Tetryl							
1	30.333	30.331	0.002	1285H	10.0	10.1	
7 Nitroglycerin							
2	30.783	30.775	0.008	824H	10.0	8.70	
25 2,4,6-Trinitrotoluene							
1	31.480	31.481	-0.001	1328H	10.0	10.2	
26 4-Amino-2,6-dinitrotoluene							
1	32.356	32.361	-0.005	1071H	10.0	10.4	
\$ 30 3,4-Dinitrotoluene							
1	32.666	32.658	0.008	850H	10.0	10.8	M
2	32.656	32.658	-0.002	1594H	10.0	10.8	M
6 2-Amino-4,6-dinitrotoluene							
1	32.980	32.985	-0.005	1252H	10.0	10.4	

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000005.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12	2,6-Dinitrotoluene						
1	34.153	34.145	0.008	821H	10.0	10.1	
23	2,4-Dinitrotoluene						
1	34.496	34.491	0.005	1370H	10.0	10.1	
16	o-Nitrotoluene						
1	37.233	37.215	0.018	582H	10.0	9.79	
15	p-Nitrotoluene						
1	38.406	38.408	-0.002	729H	10.0	10.0	
8	m-Nitrotoluene						
1	39.856	39.858	-0.002	667H	10.0	9.96	
21	PETN						
2	40.956	40.938	0.018	473H	10.0	8.83	M

QC Flag Legend

Review Flags

M - Manually Integrated

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000005.D

Injection Date: 29-May-2014 15:06:51

Instrument ID: LC11

Operator ID: TQP

Lims ID: STD2

Worklist Smp#: 5

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

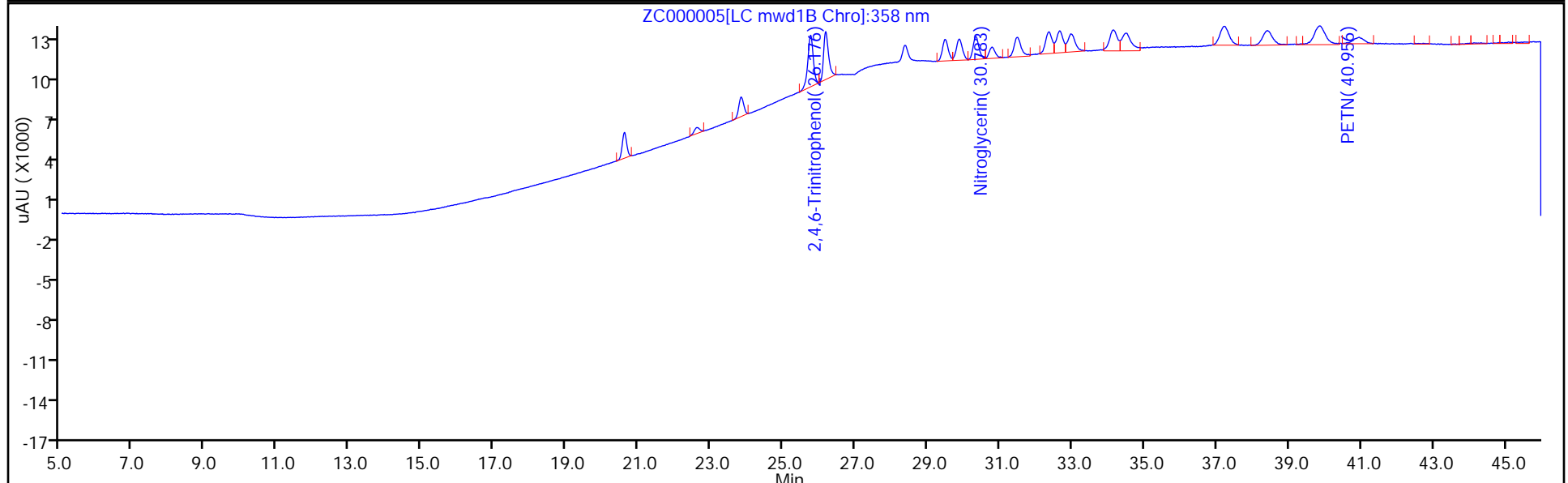
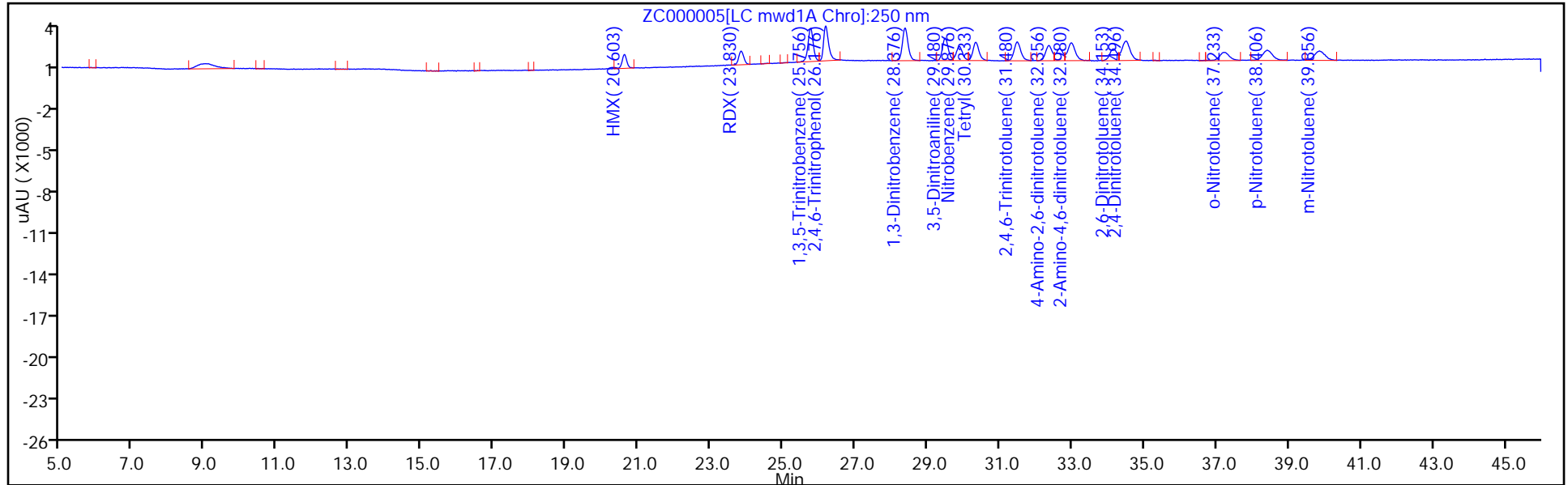
ALS Bottle#: 4

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



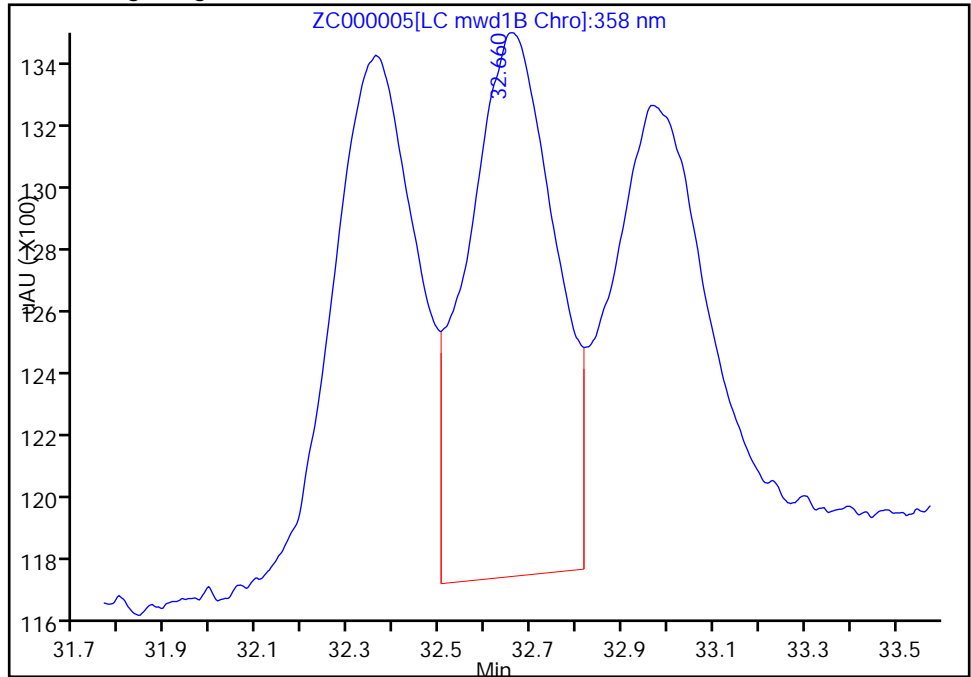
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000005.D
Injection Date: 29-May-2014 15:06:51 Instrument ID: LC11
Lims ID: STD2
Client ID:
Operator ID: TQP ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

\$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

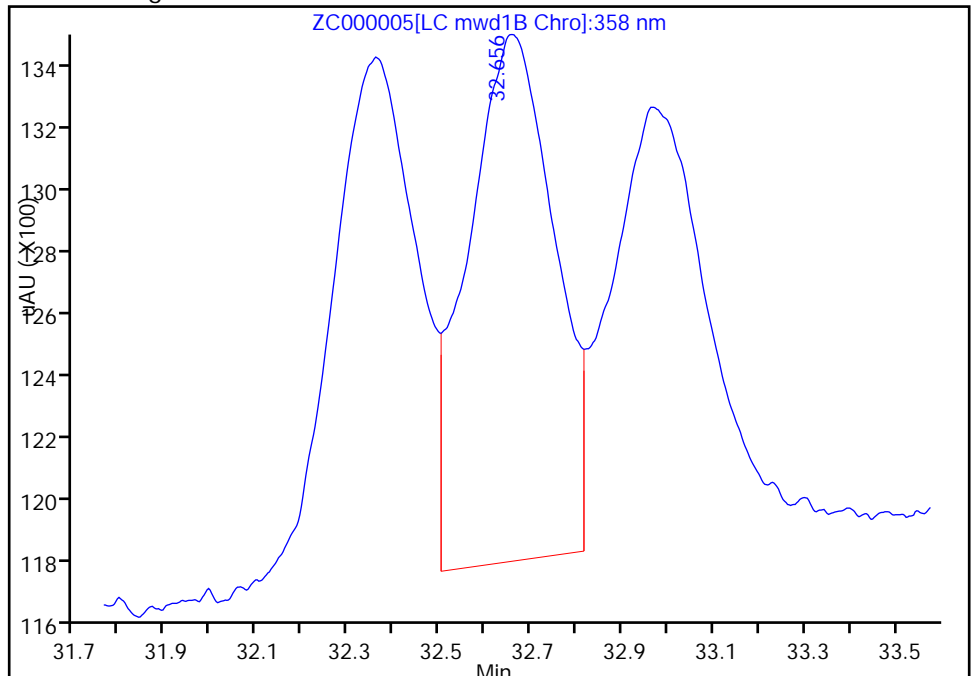
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Response: 1644
Amount: 11.024142

Processing Integration Results



RT: 32.66
Response: 1594
Amount: 10.762108

Manual Integration Results



Reviewer: phant, 30-May-2014 10:39:29
Audit Action: Assigned New Baseline
Audit Reason: Baseline

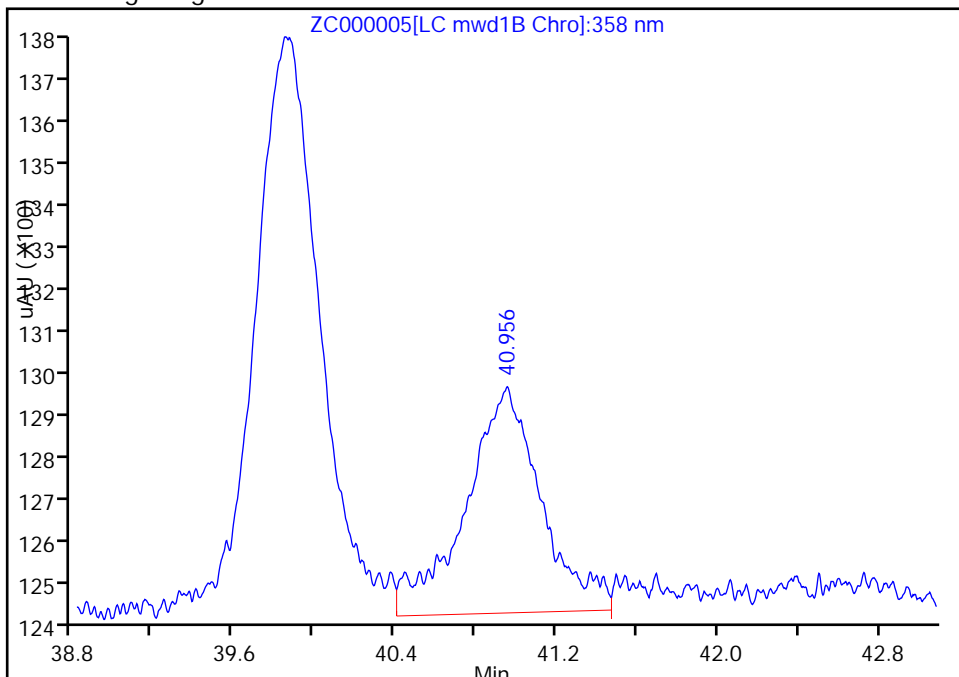
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000005.D
Injection Date: 29-May-2014 15:06:51 Instrument ID: LC11
Lims ID: STD2
Client ID:
Operator ID: TQP ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

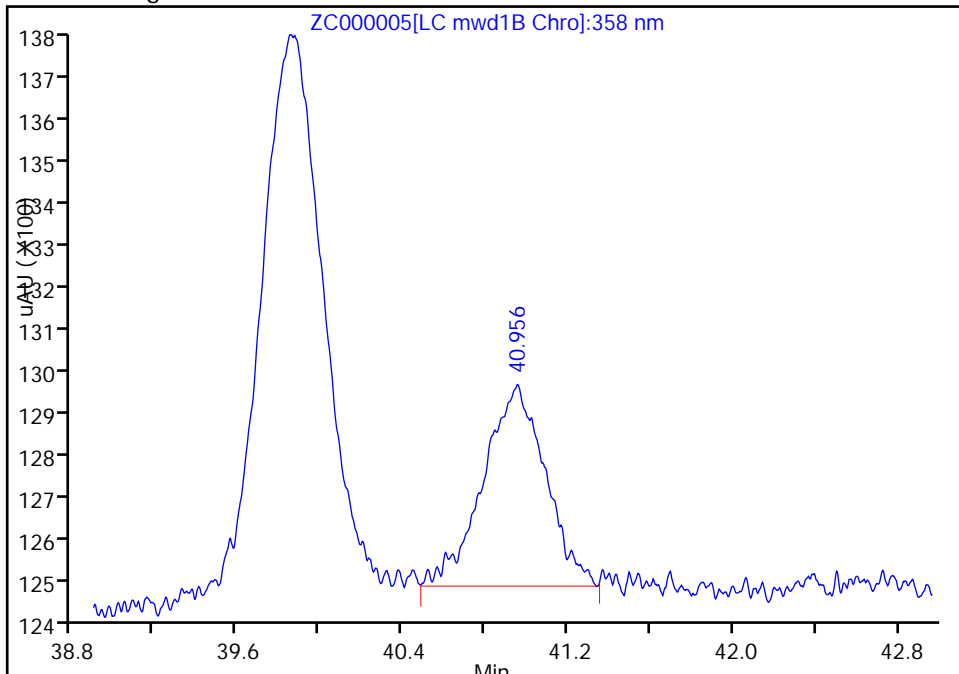
RT: 40.96
Response: 531
Amount: 9.635821

Processing Integration Results



RT: 40.96
Response: 473
Amount: 8.825491

Manual Integration Results



Reviewer: phant, 30-May-2014 10:29:42
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000006.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-May-2014 16:03:29 ALS Bottle#: 5 Worklist Smp#: 6
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012781-006
 Operator ID: TQP Instrument ID: LC11
 Sublist: chrom-8330 Metab LC11*sub6
 Method: \\SACChrom\ChromData\LC11\20140529-12781.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 30-May-2014 13:32:57 Calib Date: 29-May-2014 20:46:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000011.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK026

First Level Reviewer: phant Date: 30-May-2014 10:29:22

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	20.594	20.585	0.009	2006H	20.0	22.0	
19 RDX							
1	23.838	23.828	0.010	2012H	20.0	22.3	
27 1,3,5-Trinitrobenzene							
1	25.761	25.755	0.006	4660H	20.0	21.3	
10 2,4,6-Trinitrophenol							
2	26.164	26.095	0.069	9090H	50.0	53.1	
1	26.164	26.095	0.069	6304H	50.0	52.8	
24 1,3-Dinitrobenzene							
1	28.374	28.371	0.003	4770H	20.0	21.4	
9 3,5-Dinitroaniline							
1	29.484	29.488	-0.004	3247H	20.0	21.3	
5 Nitrobenzene							
1	29.878	29.875	0.003	2176H	20.0	21.6	
20 Tetryl							
1	30.331	30.331	0.000	2643H	20.0	20.8	
7 Nitroglycerin							
2	30.781	30.775	0.006	1990H	20.0	21.0	
25 2,4,6-Trinitrotoluene							
1	31.481	31.481	0.000	2717H	20.0	20.8	
26 4-Amino-2,6-dinitrotoluene							
1	32.358	32.361	-0.003	2199H	20.0	21.3	
\$ 30 3,4-Dinitrotoluene							
1	32.654	32.658	-0.004	1666H	20.0	21.2	M
2	32.654	32.658	-0.004	3127H	20.0	21.1	M
6 2-Amino-4,6-dinitrotoluene							
1	32.984	32.985	-0.001	2547H	20.0	21.1	

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000006.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12	2,6-Dinitrotoluene						
1	34.144	34.145	-0.001	1702H	20.0	21.0	
23	2,4-Dinitrotoluene						
1	34.488	34.491	-0.003	2865H	20.0	21.1	
16	o-Nitrotoluene						
1	37.224	37.215	0.009	1245H	20.0	21.0	
15	p-Nitrotoluene						
1	38.397	38.408	-0.011	1514H	20.0	20.9	
8	m-Nitrotoluene						
1	39.854	39.858	-0.004	1405H	20.0	21.0	
21	PETN						M
2	40.937	40.938	-0.001	1124H	20.0	21.0	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000006.D

Injection Date: 29-May-2014 16:03:29

Instrument ID: LC11

Operator ID: TQP

Lims ID: STD3

Worklist Smp#: 6

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

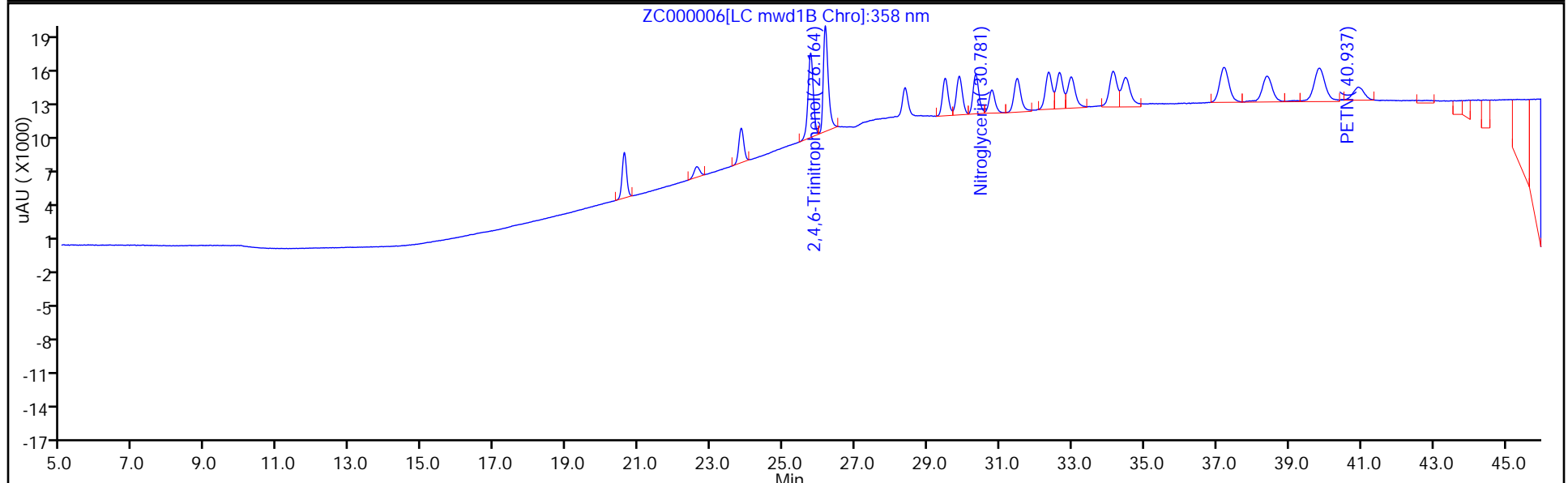
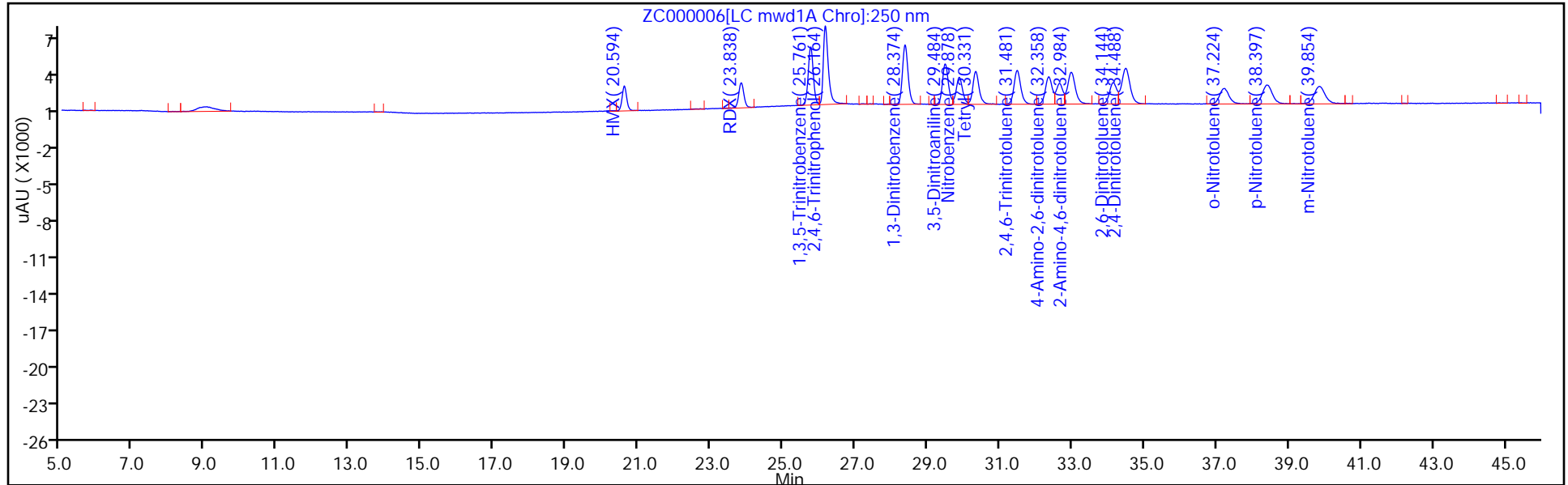
ALS Bottle#: 5

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



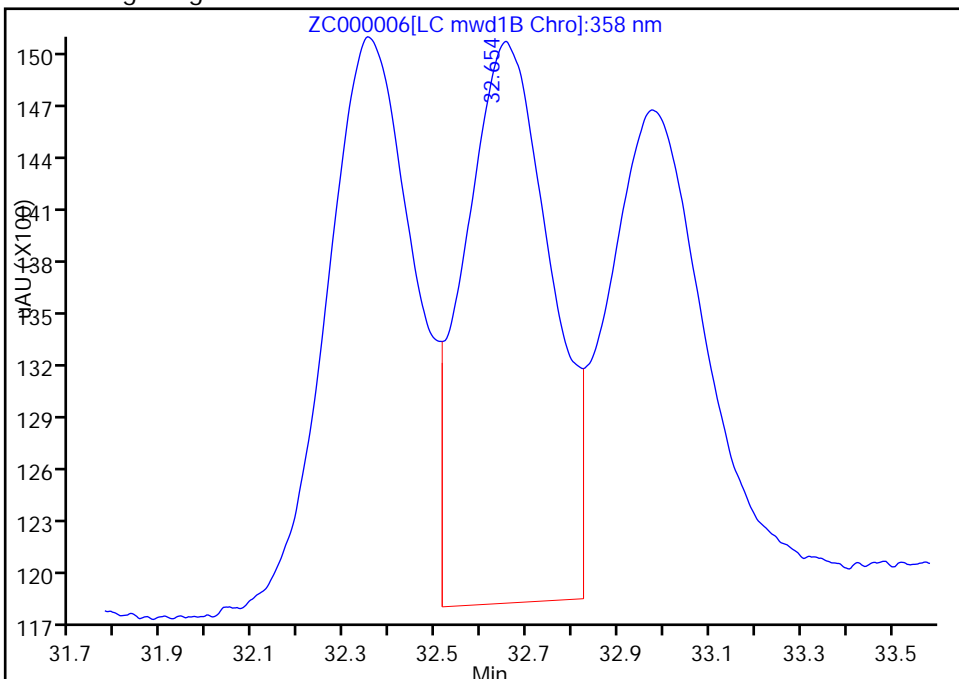
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000006.D
Injection Date: 29-May-2014 16:03:29 Instrument ID: LC11
Lims ID: STD3
Client ID:
Operator ID: TQP ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

\$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

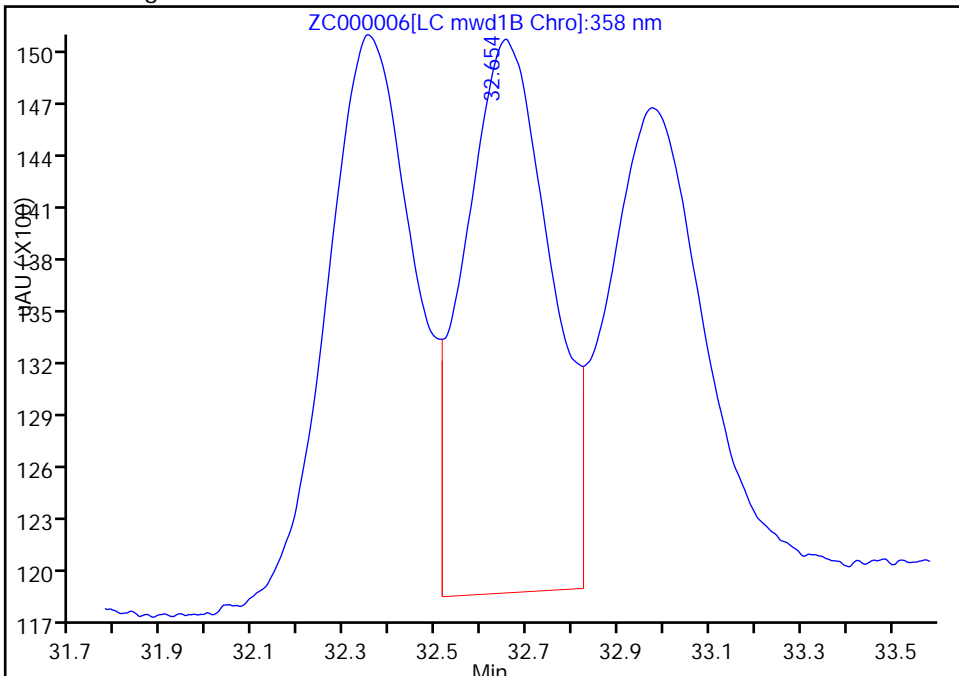
RT: 32.65
Response: 3173
Amount: 21.366680

Processing Integration Results



RT: 32.65
Response: 3127
Amount: 21.112366

Manual Integration Results



Reviewer: phant, 30-May-2014 10:40:01
Audit Action: Assigned New Baseline
Audit Reason: Baseline

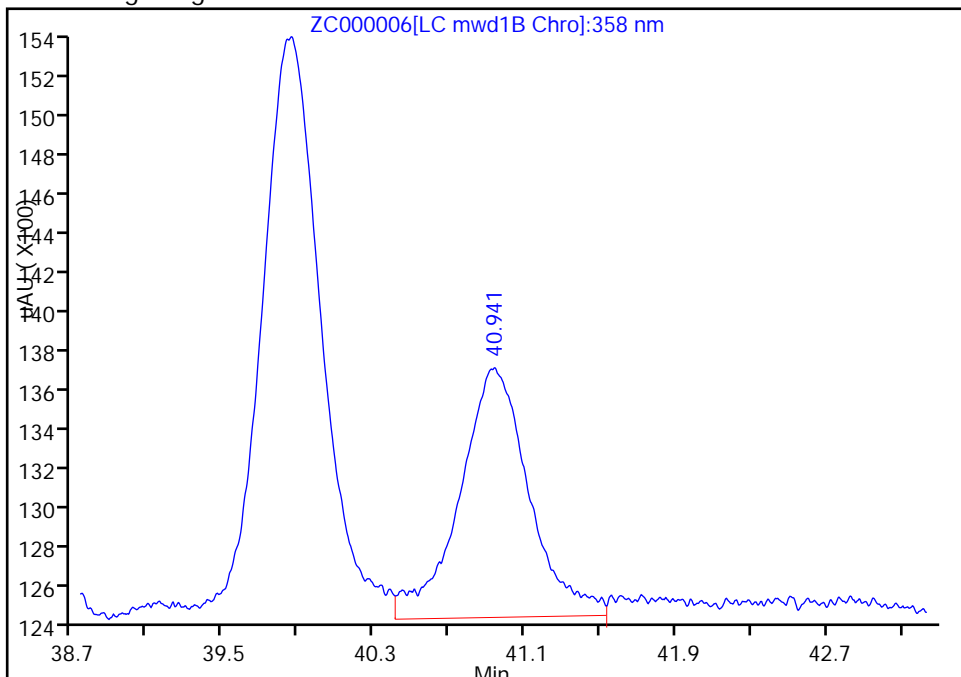
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000006.D
Injection Date: 29-May-2014 16:03:29 Instrument ID: LC11
Lims ID: STD3
Client ID:
Operator ID: TQP ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

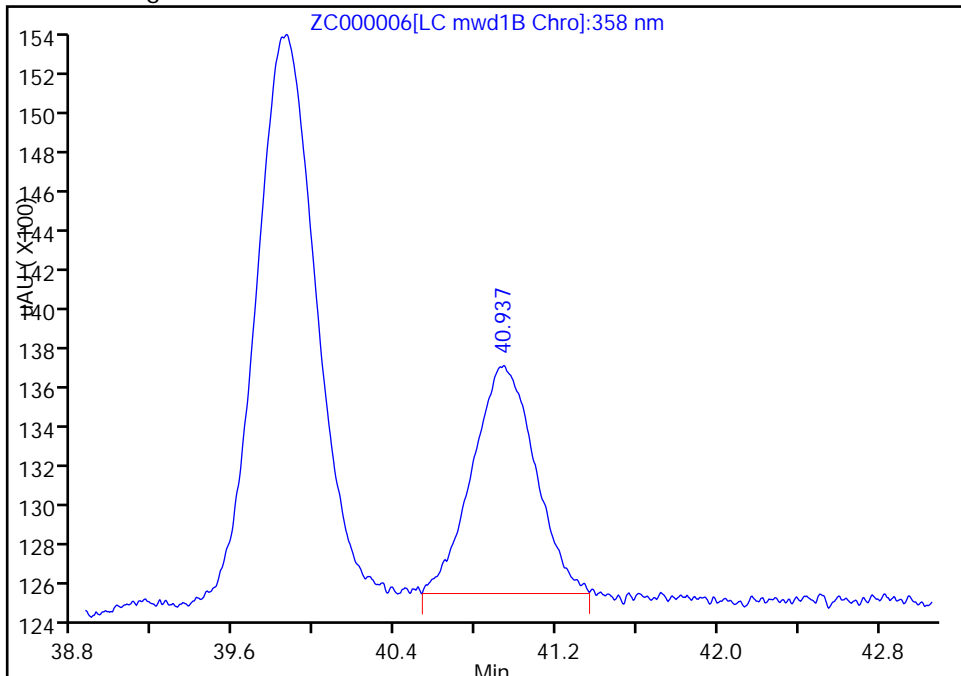
RT: 40.94
Response: 1232
Amount: 22.086027

Processing Integration Results



RT: 40.94
Response: 1124
Amount: 20.972203

Manual Integration Results



Reviewer: phant, 30-May-2014 10:29:22
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000007.D
 Lims ID: STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 29-May-2014 17:00:07 ALS Bottle#: 6 Worklist Smp#: 7
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012781-007
 Operator ID: TQP Instrument ID: LC11
 Sublist: chrom-8330 Metab LC11*sub6
 Method: \\SACChrom\ChromData\LC11\20140529-12781.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 30-May-2014 13:32:58 Calib Date: 29-May-2014 20:46:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000011.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK026

First Level Reviewer: phant Date: 30-May-2014 10:30:30

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	20.588	20.585	0.003	4555H	50.0	49.9	
19 RDX							
1	23.831	23.828	0.003	4573H	50.0	50.6	
27 1,3,5-Trinitrobenzene							
1	25.758	25.755	0.003	10558H	50.0	48.3	
10 2,4,6-Trinitrophenol							
2	26.154	26.095	0.059	18555H	100.0	108.4	
1	26.154	26.095	0.059	12783H	100.0	107.1	
24 1,3-Dinitrobenzene							
1	28.378	28.371	0.007	10973H	50.0	49.2	
9 3,5-Dinitroaniline							
1	29.491	29.488	0.003	7496H	50.0	49.2	
5 Nitrobenzene							
1	29.878	29.875	0.003	5007H	50.0	49.6	
20 Tetryl							
1	30.334	30.331	0.003	6222H	50.0	48.9	
7 Nitroglycerin							
2	30.778	30.775	0.003	4825H	50.0	50.9	
25 2,4,6-Trinitrotoluene							
1	31.484	31.481	0.003	6334H	50.0	48.5	
26 4-Amino-2,6-dinitrotoluene							
1	32.364	32.361	0.003	5018H	50.0	48.5	
\$ 30 3,4-Dinitrotoluene							
1	32.664	32.658	0.006	3856H	50.0	49.0	M
2	32.664	32.658	0.006	7295H	50.0	49.3	M
6 2-Amino-4,6-dinitrotoluene							
1	32.991	32.985	0.006	5868H	50.0	48.7	

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000007.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12	2,6-Dinitrotoluene						
1	34.151	34.145	0.006	3931H	50.0	48.5	
23	2,4-Dinitrotoluene						
1	34.498	34.491	0.007	6588H	50.0	48.5	
16	o-Nitrotoluene						
1	37.228	37.215	0.013	2884H	50.0	48.5	
15	p-Nitrotoluene						
1	38.421	38.408	0.013	3541H	50.0	48.8	
8	m-Nitrotoluene						
1	39.864	39.858	0.006	3248H	50.0	48.5	
21	PETN						
2	40.961	40.938	0.023	2701H	50.0	50.4	M

QC Flag Legend

Review Flags

M - Manually Integrated

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000007.D

Injection Date: 29-May-2014 17:00:07 Instrument ID: LC11

Lims ID: STD4

Operator ID: TQP

Worklist Smp#: 7

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

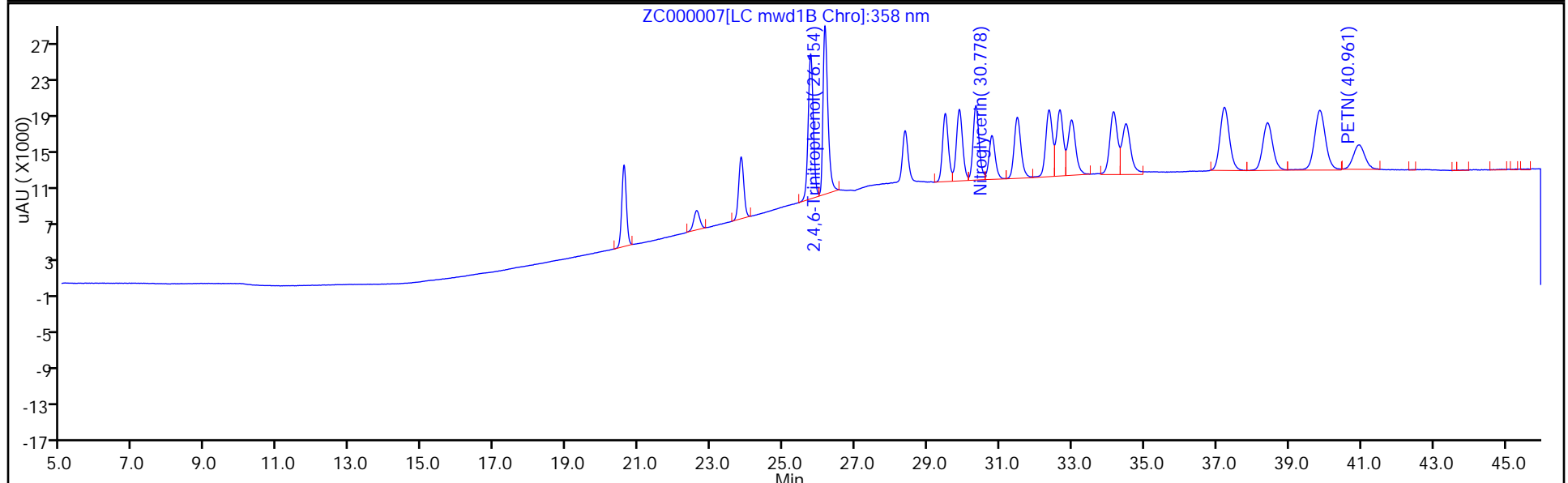
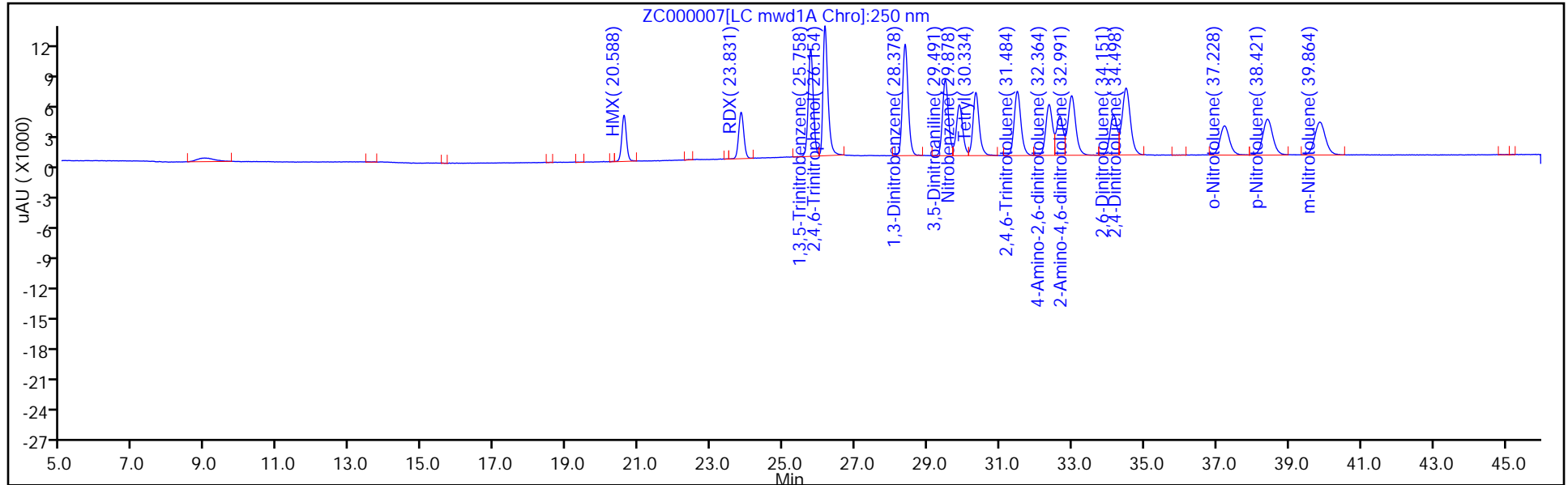
ALS Bottle#: 6

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



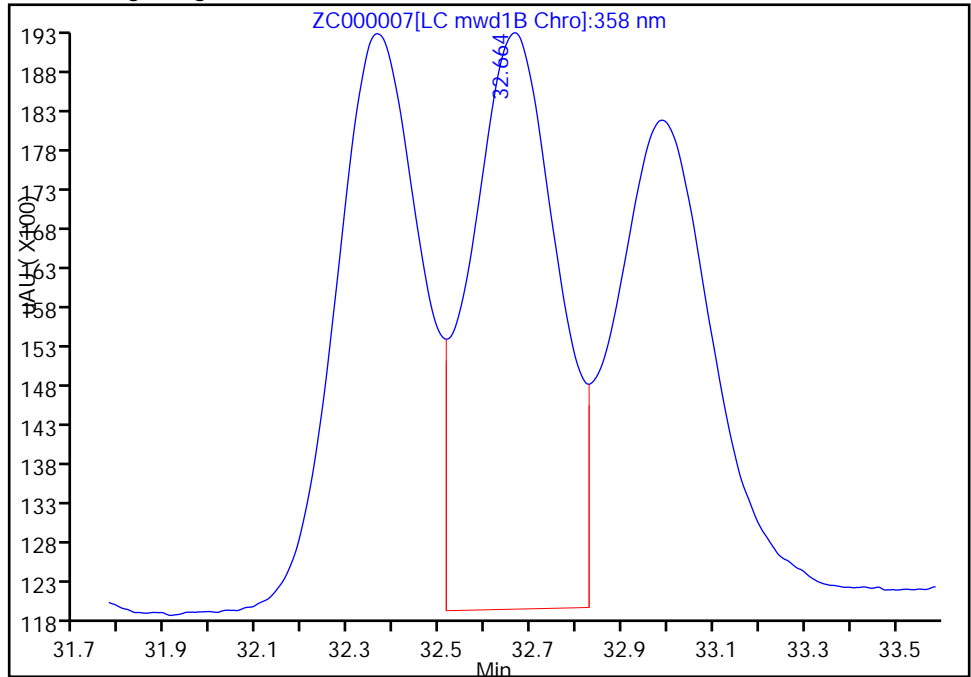
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000007.D
Injection Date: 29-May-2014 17:00:07 Instrument ID: LC11
Lims ID: STD4
Client ID:
Operator ID: TQP ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

\$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

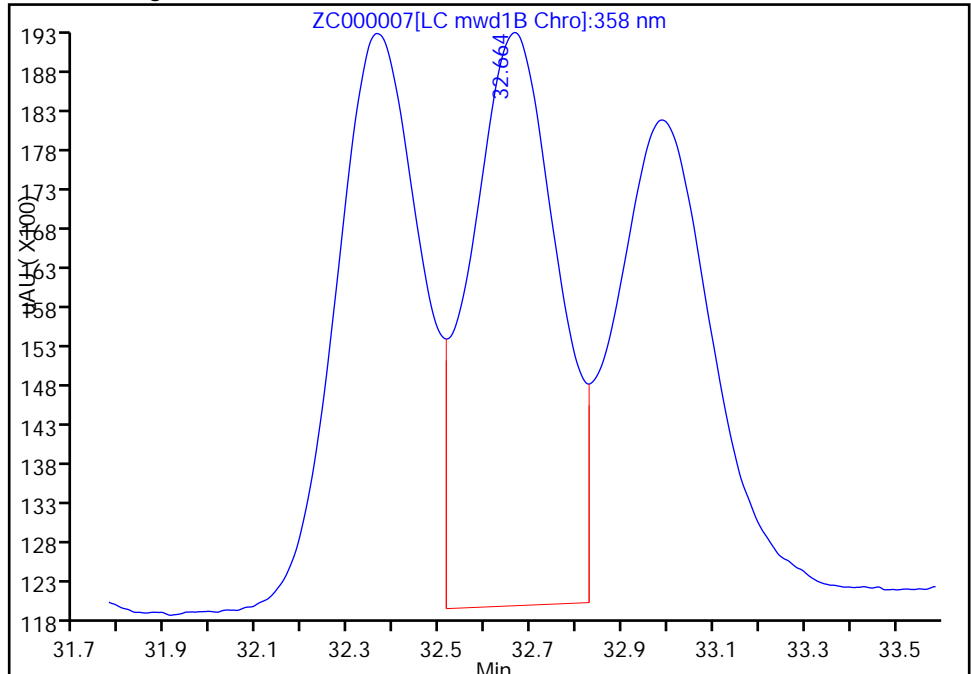
RT: 32.66
Response: 7336
Amount: 49.495749

Processing Integration Results



RT: 32.66
Response: 7295
Amount: 49.253185

Manual Integration Results



Reviewer: phant, 30-May-2014 10:40:31
Audit Action: Assigned New Baseline
Audit Reason: Baseline

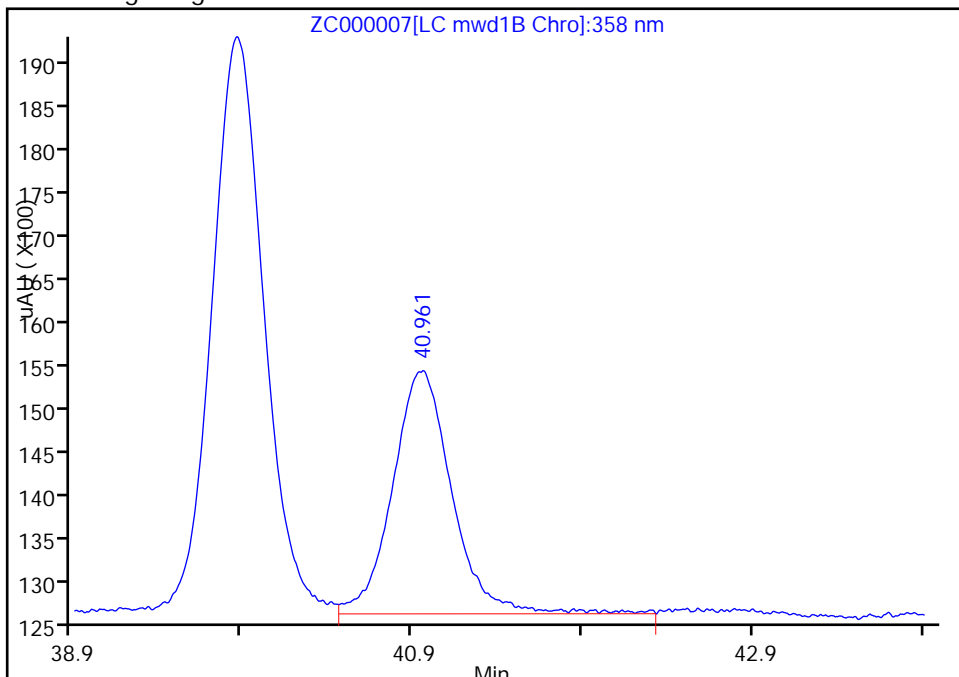
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000007.D
Injection Date: 29-May-2014 17:00:07 Instrument ID: LC11
Lims ID: STD4
Client ID:
Operator ID: TQP ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

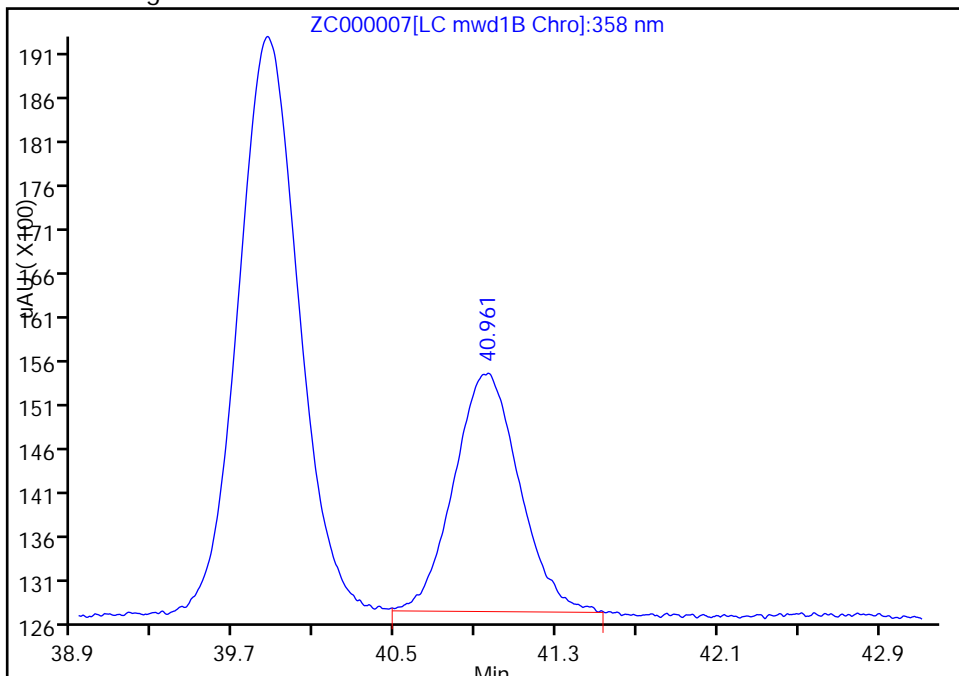
RT: 40.96
Response: 2779
Amount: 51.101585

Processing Integration Results



RT: 40.96
Response: 2701
Amount: 50.396727

Manual Integration Results



Reviewer: phant, 30-May-2014 10:30:30
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000008.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 29-May-2014 17:56:51 ALS Bottle#: 7 Worklist Smp#: 8
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012781-008
 Operator ID: TQP Instrument ID: LC11
 Sublist: chrom-8330 Metab LC11*sub6
 Method: \\SACChrom\ChromData\LC11\20140529-12781.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 30-May-2014 13:32:59 Calib Date: 29-May-2014 20:46:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000011.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK026

First Level Reviewer: phant

Date: 30-May-2014 10:30:47

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
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11 HMX							
1	20.590	20.585	0.005	9331H	100.0	102.2	
19 RDX							
1	23.833	23.828	0.005	9374H	100.0	103.7	
27 1,3,5-Trinitrobenzene							
1	25.760	25.755	0.005	21547H	100.0	98.5	
10 2,4,6-Trinitrophenol							
2	26.140	26.095	0.045	37225H	200.0	217.6	
1	26.140	26.095	0.045	25661H	200.0	215.1	
24 1,3-Dinitrobenzene							
1	28.376	28.371	0.005	22620H	100.0	101.5	
9 3,5-Dinitroaniline							
1	29.490	29.488	0.002	15386H	100.0	100.9	
5 Nitrobenzene							
1	29.876	29.875	0.001	10279H	100.0	101.8	
20 Tetryl							
1	30.336	30.331	0.005	12774H	100.0	100.5	
7 Nitroglycerin							
2	30.780	30.775	0.005	9783H	100.0	103.3	
25 2,4,6-Trinitrotoluene							
1	31.483	31.481	0.002	13023H	100.0	99.6	
26 4-Amino-2,6-dinitrotoluene							
1	32.363	32.361	0.002	10317H	100.0	99.7	
\$ 30 3,4-Dinitrotoluene							
1	32.660	32.658	0.002	7843H	100.0	99.6	
2	32.663	32.658	0.005	14904H	100.0	100.6	
6 2-Amino-4,6-dinitrotoluene							
1	32.990	32.985	0.005	12090H	100.0	100.4	

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000008.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12	2,6-Dinitrotoluene						
1	34.150	34.145	0.005	8111H	100.0	100.2	
23	2,4-Dinitrotoluene						
1	34.496	34.491	0.005	13633H	100.0	100.4	
16	o-Nitrotoluene						
1	37.220	37.215	0.005	5925H	100.0	99.7	
15	p-Nitrotoluene						
1	38.416	38.408	0.008	7278H	100.0	100.2	
8	m-Nitrotoluene						
1	39.866	39.858	0.008	6692H	100.0	99.9	
21	PETN						M
2	40.940	40.938	0.002	5396H	100.0	100.7	M

QC Flag Legend

Review Flags

M - Manually Integrated

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000008.D

Injection Date: 29-May-2014 17:56:51

Instrument ID: LC11

Operator ID: TQP

Lims ID: STD5

Worklist Smp#: 8

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

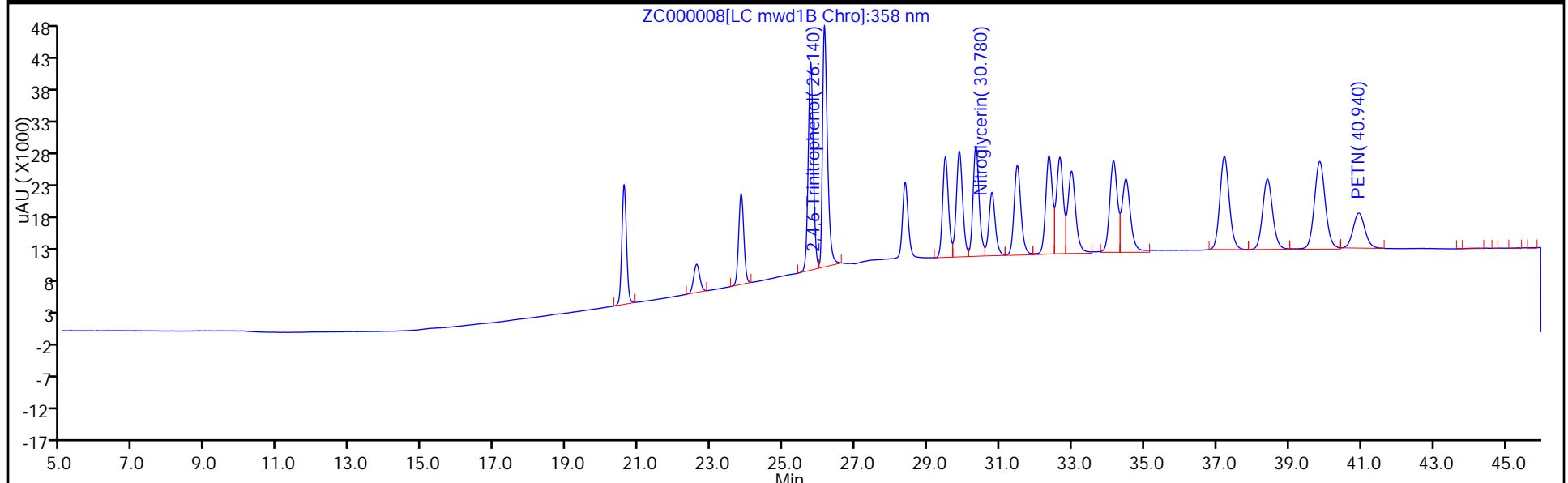
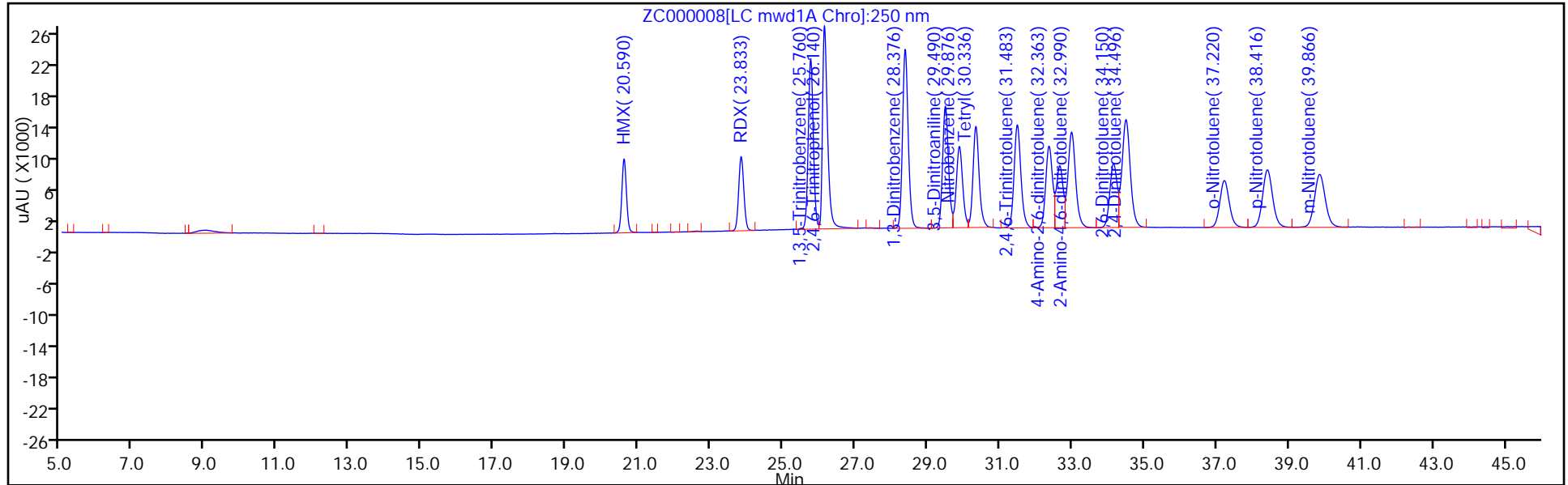
ALS Bottle#: 7

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



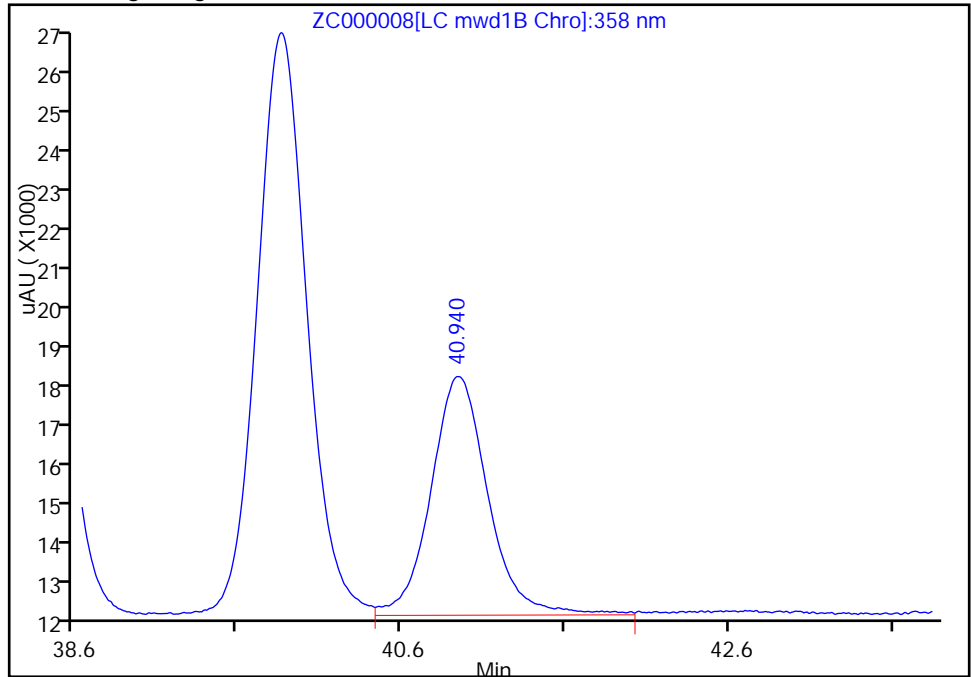
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000008.D
Injection Date: 29-May-2014 17:56:51 Instrument ID: LC11
Lims ID: STD5
Client ID:
Operator ID: TQP ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

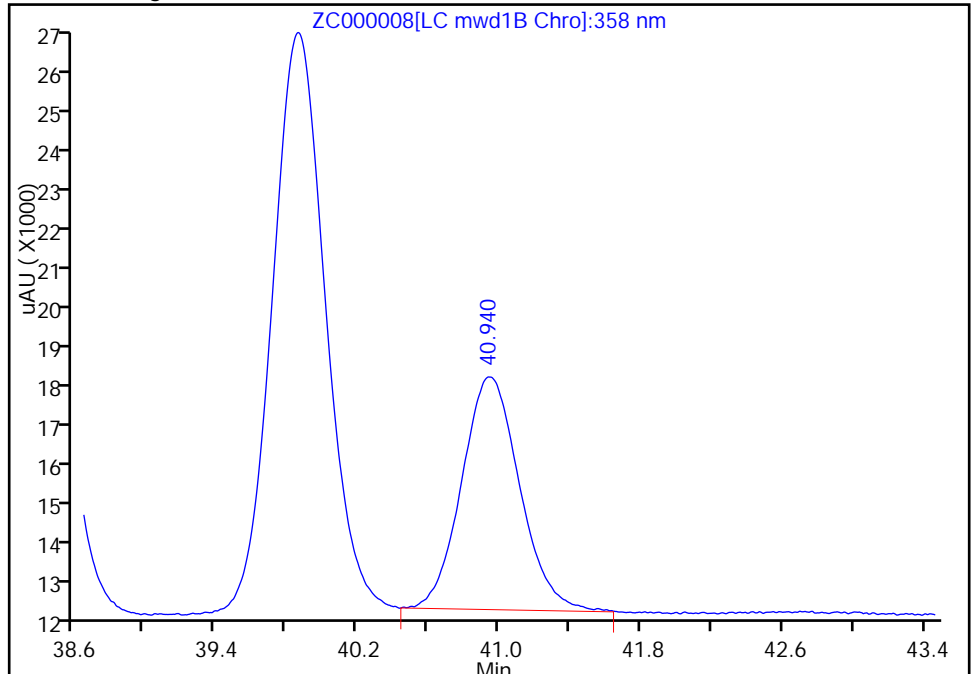
RT: 40.94
Response: 5546
Amount: 102.3495

Processing Integration Results



RT: 40.94
Response: 5396
Amount: 100.6815

Manual Integration Results



Reviewer: phant, 30-May-2014 10:30:47
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000009.D
 Lims ID: STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 29-May-2014 18:53:36 ALS Bottle#: 8 Worklist Smp#: 9
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012781-009
 Operator ID: TQP Instrument ID: LC11
 Sublist: chrom-8330 Metab LC11*sub6
 Method: \\SACChrom\ChromData\LC11\20140529-12781.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 30-May-2014 13:33:01 Calib Date: 29-May-2014 20:46:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000011.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK026

First Level Reviewer: phant Date: 30-May-2014 10:08:49

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	20.585	20.585	0.000	18327H	200.0	200.7	
19 RDX							
1	23.828	23.828	0.000	18228H	200.0	201.6	
27 1,3,5-Trinitrobenzene							
1	25.755	25.755	0.000	42413H	200.0	194.0	
10 2,4,6-Trinitrophenol							
2	26.095	26.095	0.000	88622H	500.0	518.0	
1	26.095	26.095	0.000	60934H	500.0	510.7	
24 1,3-Dinitrobenzene							
1	28.371	28.371	0.000	44761H	200.0	200.8	
9 3,5-Dinitroaniline							
1	29.488	29.488	0.000	30501H	200.0	200.1	
5 Nitrobenzene							
1	29.875	29.875	0.000	20403H	200.0	202.1	
20 Tetryl							
1	30.331	30.331	0.000	25601H	200.0	201.3	
7 Nitroglycerin							
2	30.775	30.775	0.000	19625H	200.0	207.2	
25 2,4,6-Trinitrotoluene							
1	31.481	31.481	0.000	25950H	200.0	198.6	
26 4-Amino-2,6-dinitrotoluene							
1	32.361	32.361	0.000	20562H	200.0	198.7	
\$ 30 3,4-Dinitrotoluene							
1	32.658	32.658	0.000	15638H	200.0	198.5	
2	32.658	32.658	0.000	29769H	200.0	201.0	
6 2-Amino-4,6-dinitrotoluene							
1	32.985	32.985	0.000	24011H	200.0	199.3	

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000009.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12	2,6-Dinitrotoluene						
1	34.145	34.145	0.000	16161H	200.0	199.6	
23	2,4-Dinitrotoluene						
1	34.491	34.491	0.000	27137H	200.0	199.9	
16	o-Nitrotoluene						
1	37.215	37.215	0.000	11808H	200.0	198.7	
15	p-Nitrotoluene						
1	38.408	38.408	0.000	14466H	200.0	199.3	
8	m-Nitrotoluene						
1	39.858	39.858	0.000	13322H	200.0	198.9	
21	PETN						M
2	40.938	40.938	0.000	10753H	200.0	200.6	M

QC Flag Legend

Review Flags

M - Manually Integrated

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000009.D

Injection Date: 29-May-2014 18:53:36

Instrument ID: LC11

Operator ID: TQP

Lims ID: STD6

Worklist Smp#: 9

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

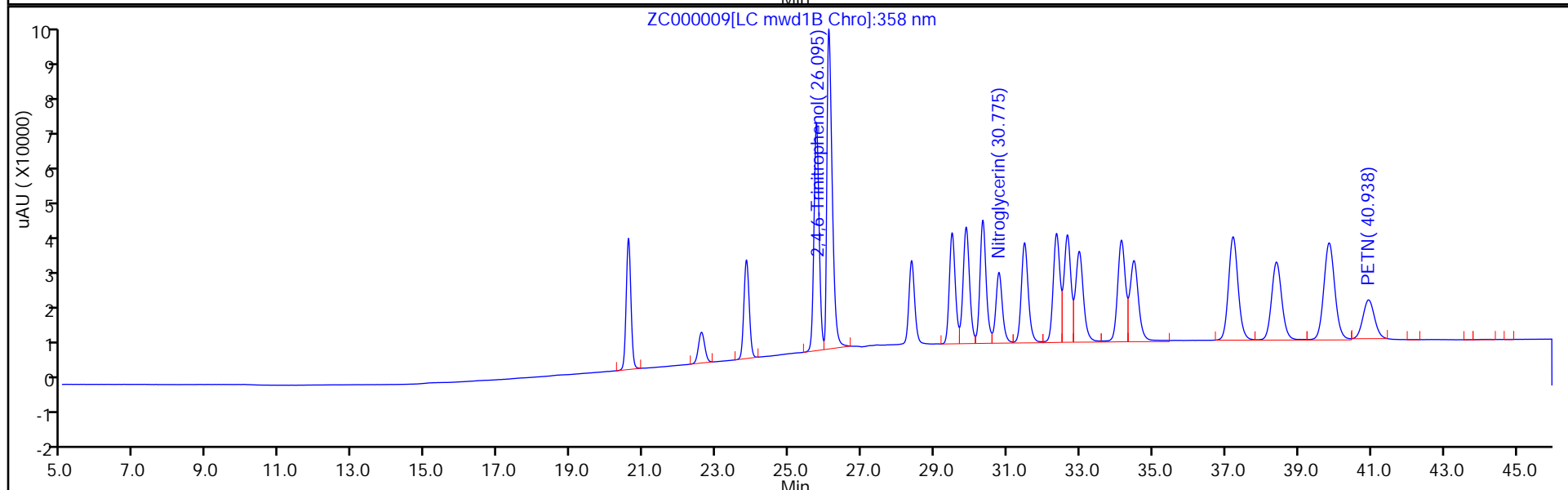
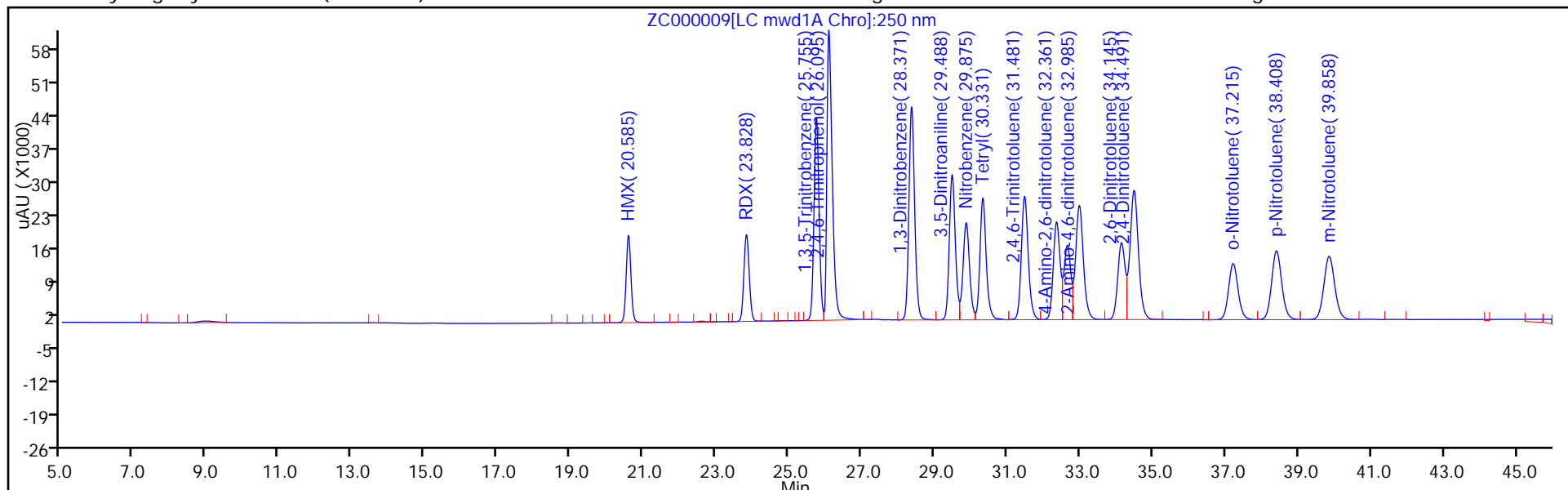
ALS Bottle#: 8

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



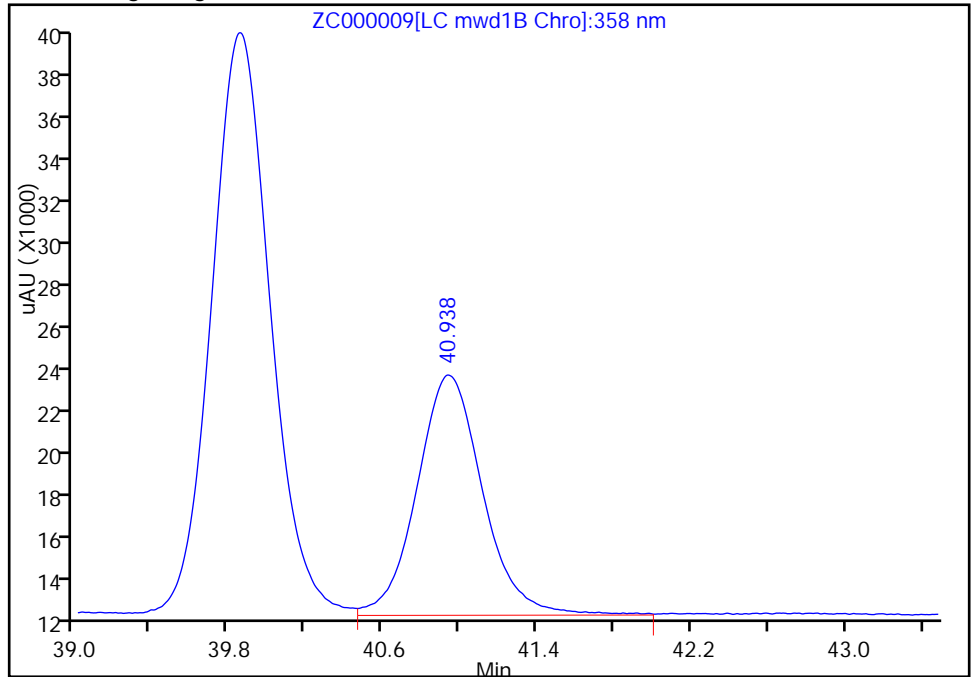
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000009.D
Injection Date: 29-May-2014 18:53:36 Instrument ID: LC11
Lims ID: STD6
Client ID:
Operator ID: TQP ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

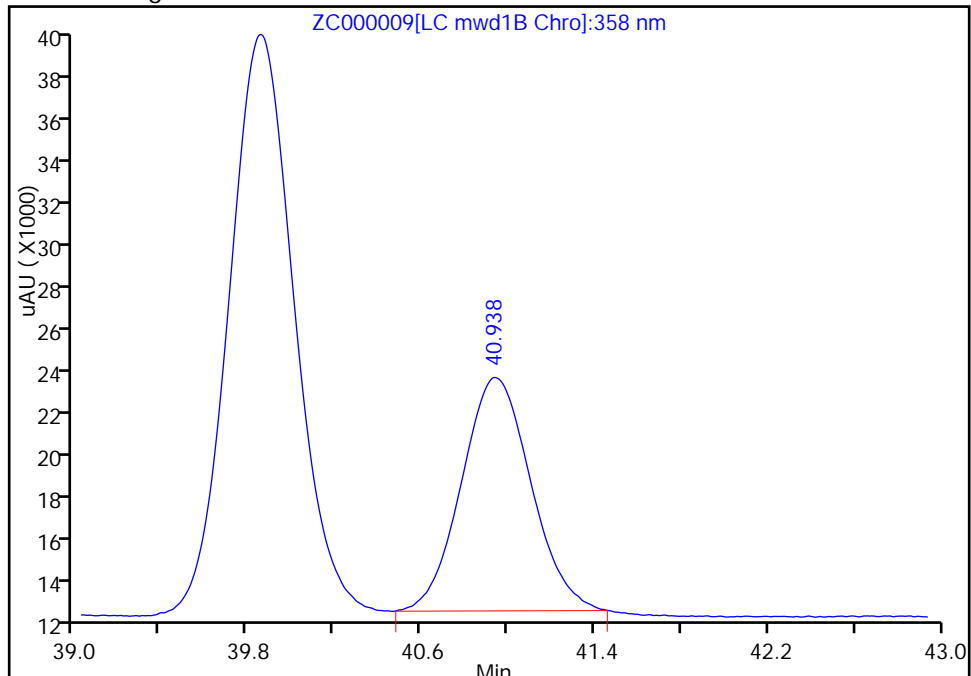
RT: 40.94
Response: 11087
Amount: 206.0647

Processing Integration Results



RT: 40.94
Response: 10753
Amount: 200.6353

Manual Integration Results



Reviewer: phant, 30-May-2014 10:36:58
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000010.D
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 29-May-2014 19:50:17 ALS Bottle#: 9 Worklist Smp#: 10
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012781-010
 Operator ID: TQP Instrument ID: LC11
 Sublist: chrom-8330 Metab LC11*sub6
 Method: \\SACChrom\ChromData\LC11\20140529-12781.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 30-May-2014 13:33:03 Calib Date: 29-May-2014 20:46:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000011.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK026

First Level Reviewer: phant

Date: 30-May-2014 10:09:59

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
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11 HMX							
1	20.578	20.585	-0.007	42235H	500.0	462.4	
19 RDX							
1	23.818	23.828	-0.010	41545H	500.0	459.4	
27 1,3,5-Trinitrobenzene							
1	25.751	25.755	-0.004	100764H	500.0	460.8	
10 2,4,6-Trinitrophenol							
2	26.048	26.095	-0.047	159823H	1000.0	934.1	
1	26.048	26.095	-0.047	110054H	1000.0	922.4	
24 1,3-Dinitrobenzene							
1	28.365	28.371	-0.006	106031H	500.0	475.7	
9 3,5-Dinitroaniline							
1	29.478	29.488	-0.010	72856H	500.0	477.9	
5 Nitrobenzene							
1	29.865	29.875	-0.010	47789H	500.0	473.5	
20 Tetryl							
1	30.328	30.331	-0.003	62416H	500.0	490.8	
7 Nitroglycerin							
2	30.771	30.775	-0.004	48631H	500.0	513.5	
25 2,4,6-Trinitrotoluene							
1	31.475	31.481	-0.006	63244H	500.0	483.9	
26 4-Amino-2,6-dinitrotoluene							
1	32.351	32.361	-0.010	49691H	500.0	480.3	
\$ 30 3,4-Dinitrotoluene							
1	32.651	32.658	-0.007	37287H	500.0	473.4	
2	32.651	32.658	-0.007	70703H	500.0	477.4	
6 2-Amino-4,6-dinitrotoluene							
1	32.975	32.985	-0.010	58017H	500.0	481.6	

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000010.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12	2,6-Dinitrotoluene						
1	34.138	34.145	-0.007	38995H	500.0	481.5	
23	2,4-Dinitrotoluene						
1	34.485	34.491	-0.006	65628H	500.0	483.5	
16	o-Nitrotoluene						
1	37.208	37.215	-0.007	28140H	500.0	473.6	
15	p-Nitrotoluene						
1	38.401	38.408	-0.007	34535H	500.0	475.7	
8	m-Nitrotoluene						
1	39.848	39.858	-0.010	31826H	500.0	475.2	
21	PETN						M
2	40.938	40.938	0.000	27030H	500.0	504.3	M

QC Flag Legend

Review Flags

M - Manually Integrated

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000010.D

Injection Date: 29-May-2014 19:50:17

Instrument ID: LC11

Operator ID: TQP

Lims ID: STD7

Worklist Smp#: 10

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

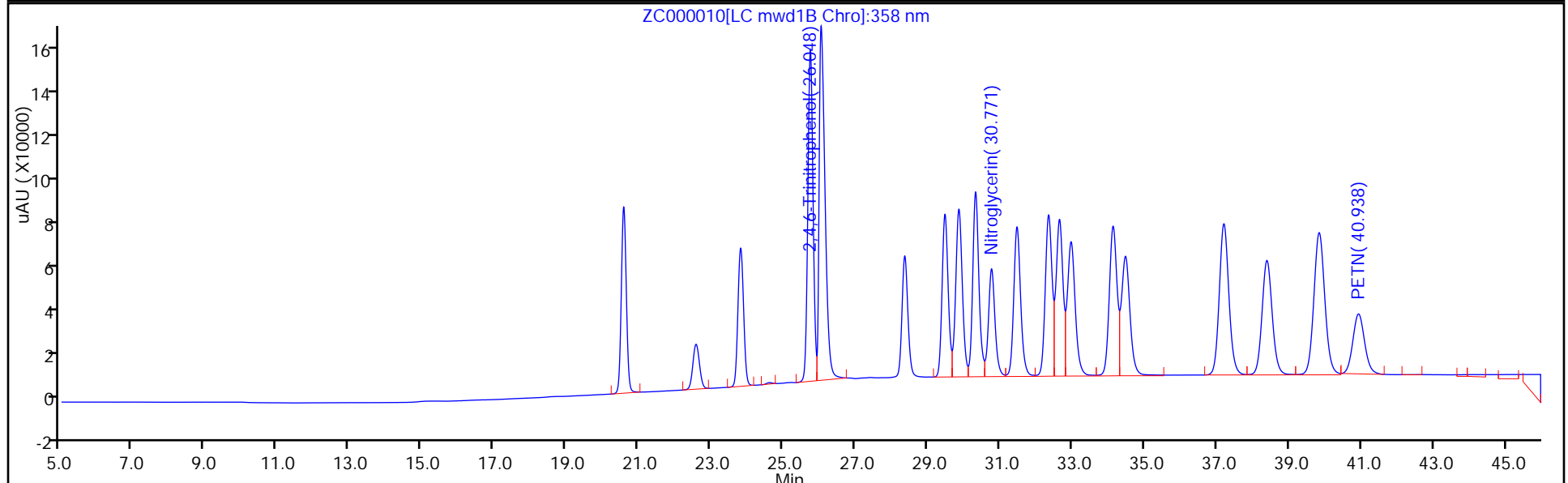
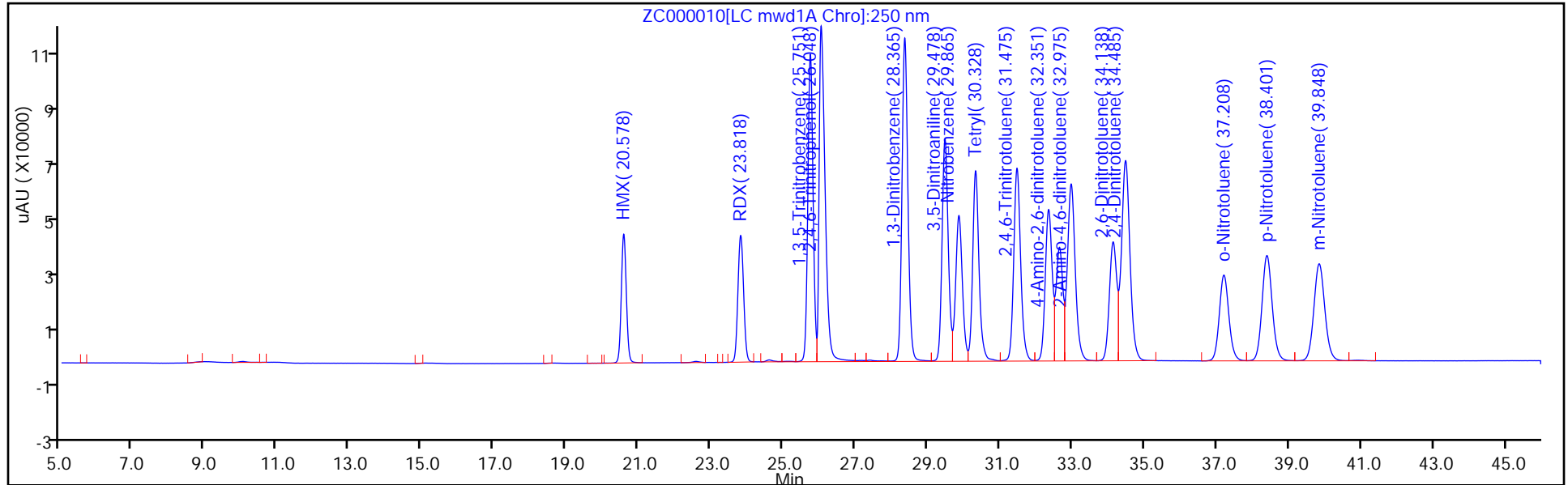
ALS Bottle#: 9

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



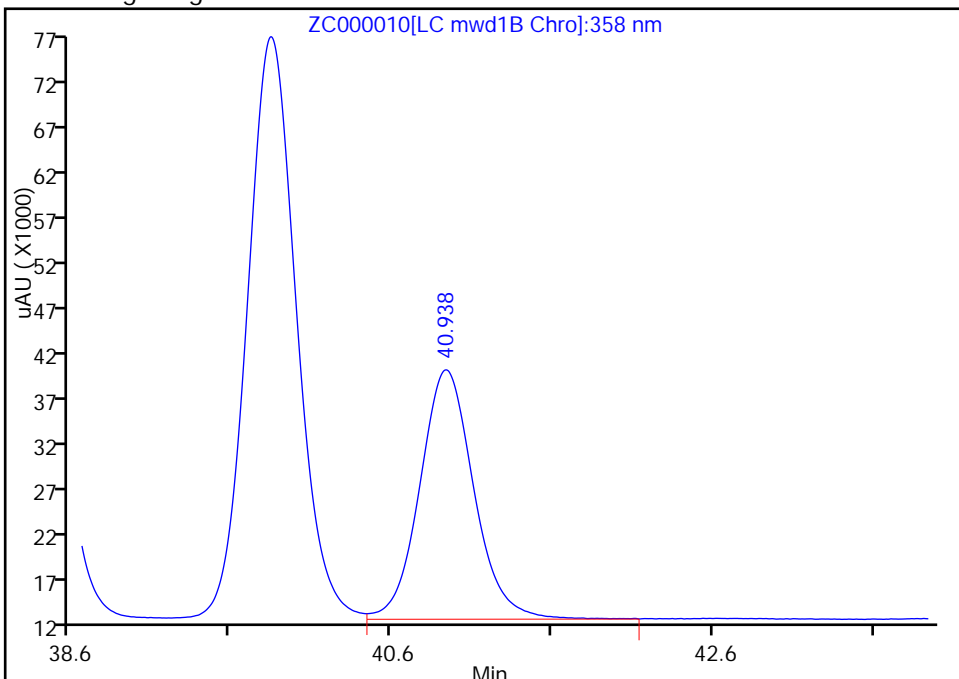
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000010.D
Injection Date: 29-May-2014 19:50:17 Instrument ID: LC11
Lims ID: STD7
Client ID:
Operator ID: TQP ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

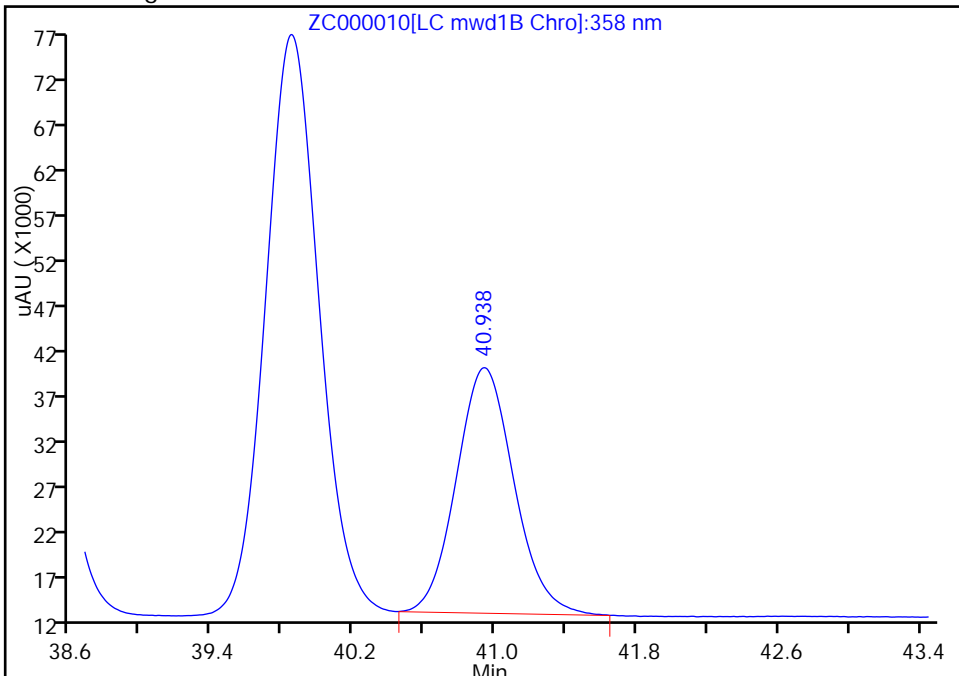
RT: 40.94
Response: 27457
Amount: 510.6059

Processing Integration Results



RT: 40.94
Response: 27030
Amount: 504.3404

Manual Integration Results



Reviewer: phant, 30-May-2014 10:36:35
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000011.D
 Lims ID: STD8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 29-May-2014 20:46:33 ALS Bottle#: 10 Worklist Smp#: 11
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012781-011
 Operator ID: TQP Instrument ID: LC11
 Sublist: chrom-8330 Metab LC11*sub6
 Method: \\SACChrom\ChromData\LC11\20140529-12781.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 30-May-2014 13:33:04 Calib Date: 29-May-2014 20:46:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000011.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK026

First Level Reviewer: phant Date: 30-May-2014 10:26:52

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	20.557	20.585	-0.028	75617H	1000.0	828.0	
19 RDX							
1	23.797	23.828	-0.031	72961H	1000.0	806.9	
27 1,3,5-Trinitrobenzene							
1	25.737	25.755	-0.018	197863H	1000.0	904.8	
10 2,4,6-Trinitrophenol							
2	25.970	26.095	-0.125	276229H	2000.0	1614.5	
1	25.970	26.095	-0.125	190128H	2000.0	1593.5	
24 1,3-Dinitrobenzene							
1	28.350	28.371	-0.021	208232H	1000.0	934.2	
9 3,5-Dinitroaniline							
1	29.464	29.488	-0.024	143516H	1000.0	941.3	
5 Nitrobenzene							
1	29.847	29.875	-0.028	94740H	1000.0	938.6	
20 Tetryl							
1	30.320	30.331	-0.011	128618H	1000.0	1011.5	
7 Nitroglycerin							
2	30.760	30.775	-0.015	93214H	1000.0	984.3	
25 2,4,6-Trinitrotoluene							
1	31.467	31.481	-0.014	130547H	1000.0	998.9	
26 4-Amino-2,6-dinitrotoluene							
1	32.337	32.361	-0.024	102180H	1000.0	987.5	
\$ 30 3,4-Dinitrotoluene							
1	32.640	32.658	-0.018	75139H	1000.0	953.9	
2	32.640	32.658	-0.018	141957H	1000.0	958.4	
6 2-Amino-4,6-dinitrotoluene							
1	32.957	32.985	-0.028	118615H	1000.0	984.6	

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000011.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12	2,6-Dinitrotoluene						
1	34.127	34.145	-0.018	81523H	1000.0	1006.7	
23	2,4-Dinitrotoluene						
1	34.470	34.491	-0.021	136616H	1000.0	1006.5	
16	o-Nitrotoluene						
1	37.190	37.215	-0.025	59076H	1000.0	994.2	
15	p-Nitrotoluene						
1	38.384	38.408	-0.024	72794H	1000.0	1002.7	
8	m-Nitrotoluene						
1	39.830	39.858	-0.028	67342H	1000.0	1005.4	
21	PETN						M
2	40.934	40.938	-0.004	52853H	1000.0	986.2	M

QC Flag Legend

Review Flags

M - Manually Integrated

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000011.D

Injection Date: 29-May-2014 20:46:33

Instrument ID: LC11

Operator ID: TQP

Lims ID: STD8

Worklist Smp#: 11

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

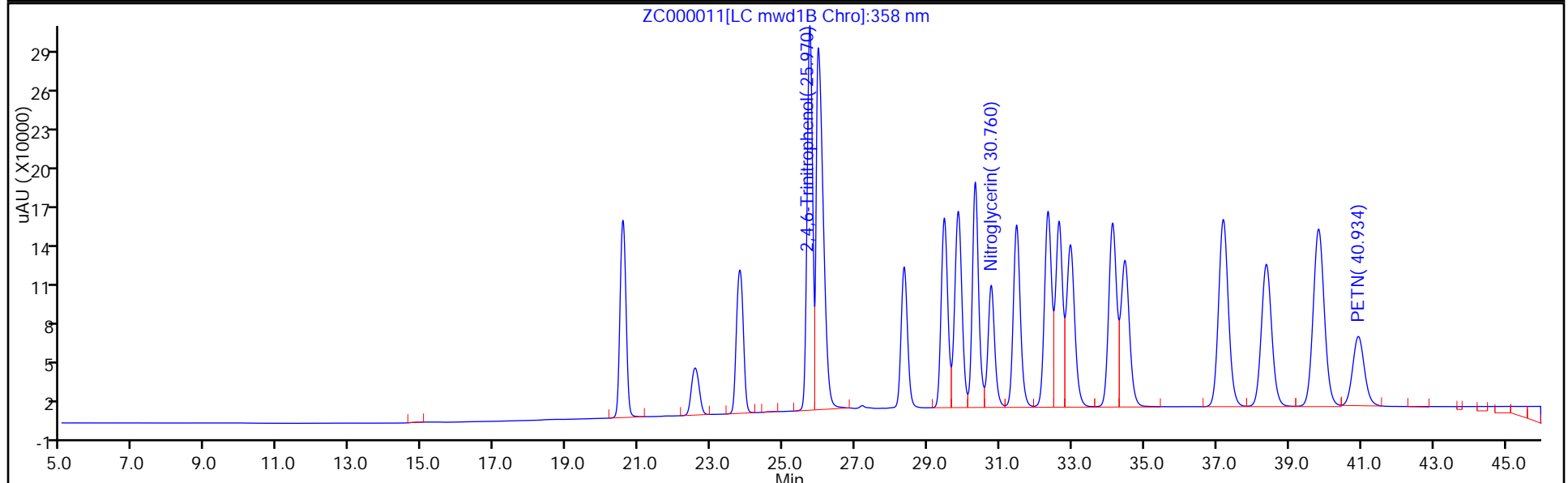
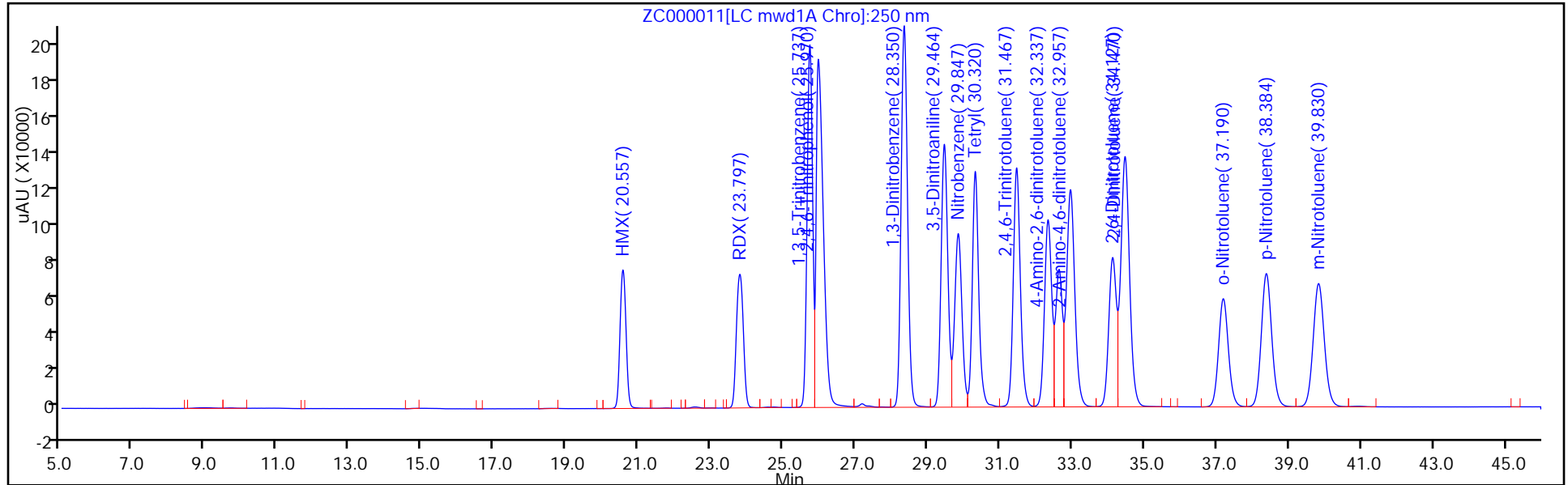
ALS Bottle#: 10

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



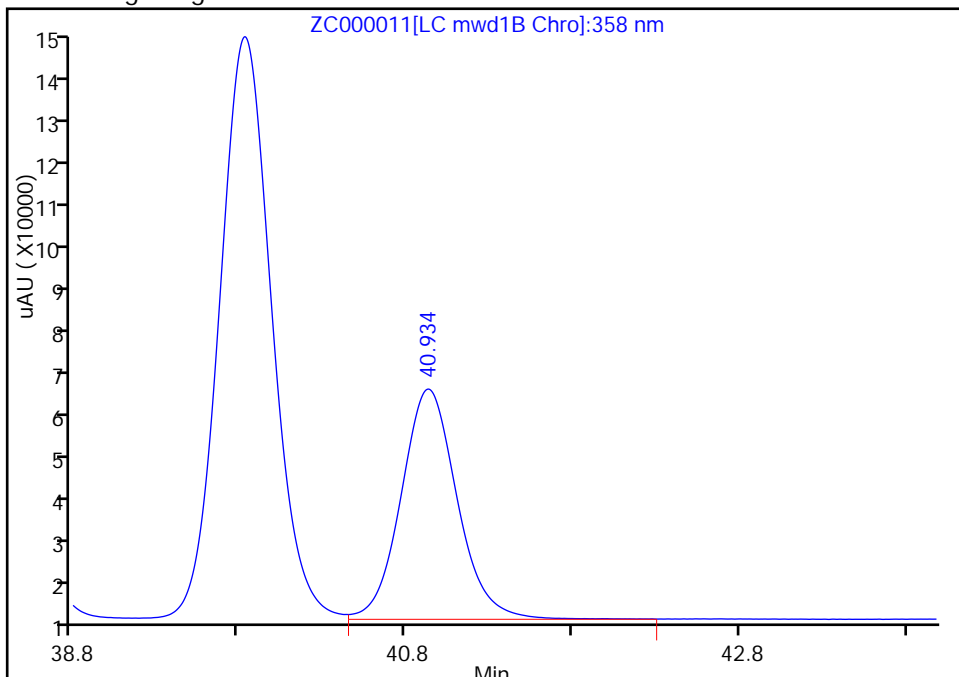
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000011.D
Injection Date: 29-May-2014 20:46:33 Instrument ID: LC11
Lims ID: STD8
Client ID:
Operator ID: TQP ALS Bottle#: 10 Worklist Smp#: 11
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

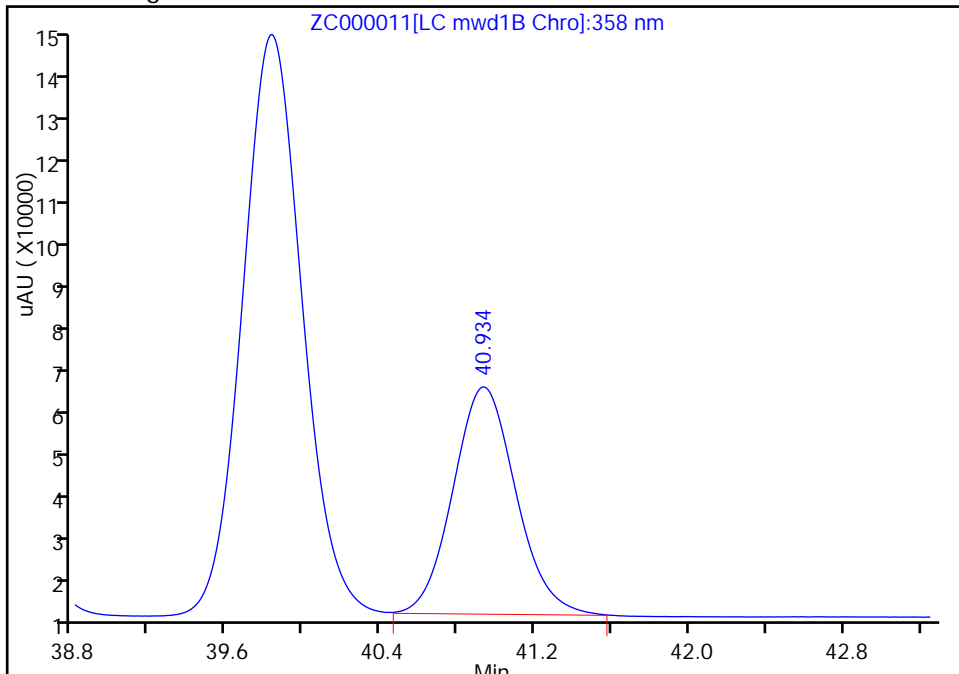
RT: 40.93
Response: 53566
Amount: 995.2436

Processing Integration Results



RT: 40.93
Response: 52853
Amount: 986.1600

Manual Integration Results



Reviewer: phant, 30-May-2014 10:31:53
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000016.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 30-May-2014 01:29:48 ALS Bottle#: 15 Worklist Smp#: 16
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012781-016
 Operator ID: TQP Instrument ID: LC11
 Sublist: chrom-8330 Metab LC11*sub6
 Method: \\SACChrom\ChromData\LC11\20140529-12781.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 30-May-2014 13:33:11 Calib Date: 30-May-2014 05:16:15
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000020.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK026

First Level Reviewer: phant Date: 30-May-2014 13:15:08

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

22 hexahydro-1,3,5-trinitroso-1,3,5-triazine							
1	15.406	15.418	-0.012	1382H	20.0	20.0	
17 hexahydro-1,3-dinitroso-5-nitro-1,3,5,triazi							
1	19.259	19.254	0.005	1736H	20.0	20.2	
18 MNX							
1	22.036	22.031	0.005	2107H	20.0	19.9	

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000016.D

Injection Date: 30-May-2014 01:29:48

Instrument ID: LC11

Operator ID: TQP

Lims ID: STD3

Worklist Smp#: 16

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

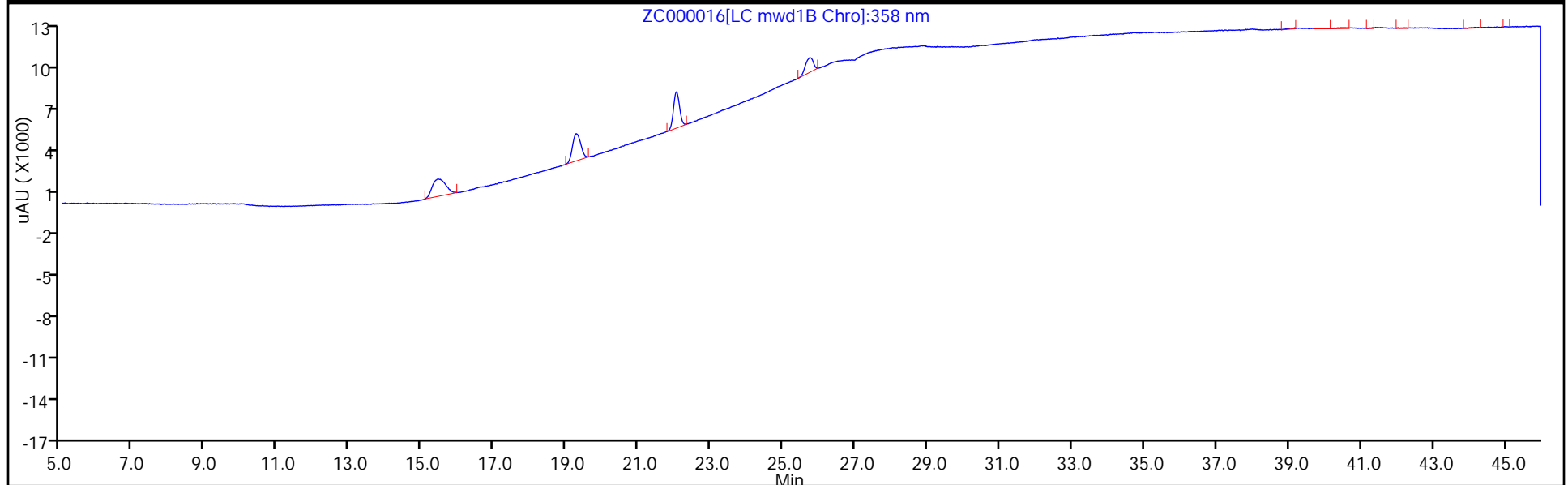
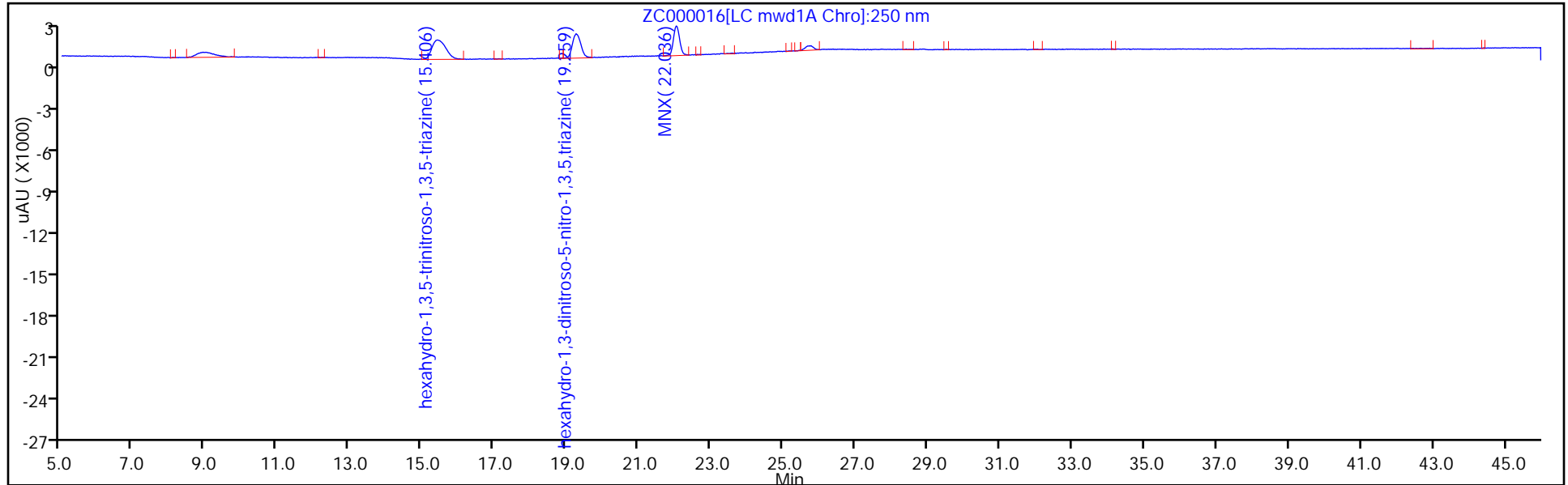
ALS Bottle#: 15

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000017.D
 Lims ID: STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 30-May-2014 02:26:23 ALS Bottle#: 16 Worklist Smp#: 17
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012781-017
 Operator ID: TQP Instrument ID: LC11
 Sublist: chrom-8330 Metab LC11*sub6
 Method: \\SACChrom\ChromData\LC11\20140529-12781.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 30-May-2014 13:33:11 Calib Date: 30-May-2014 05:16:15
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000020.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK026

First Level Reviewer: phant Date: 30-May-2014 13:15:15

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

22 hexahydro-1,3,5-trinitroso-1,3,5-triazine							
1	15.415	15.418	-0.003	3520H	50.1	50.9	
17 hexahydro-1,3-dinitroso-5-nitro-1,3,5,triazi							
1	19.255	19.254	0.001	4342H	50.0	50.5	
18 MNX							
1	22.035	22.031	0.004	5371H	50.0	50.7	

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000017.D

Injection Date: 30-May-2014 02:26:23

Instrument ID: LC11

Operator ID: TQP

Lims ID: STD4

Worklist Smp#: 17

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

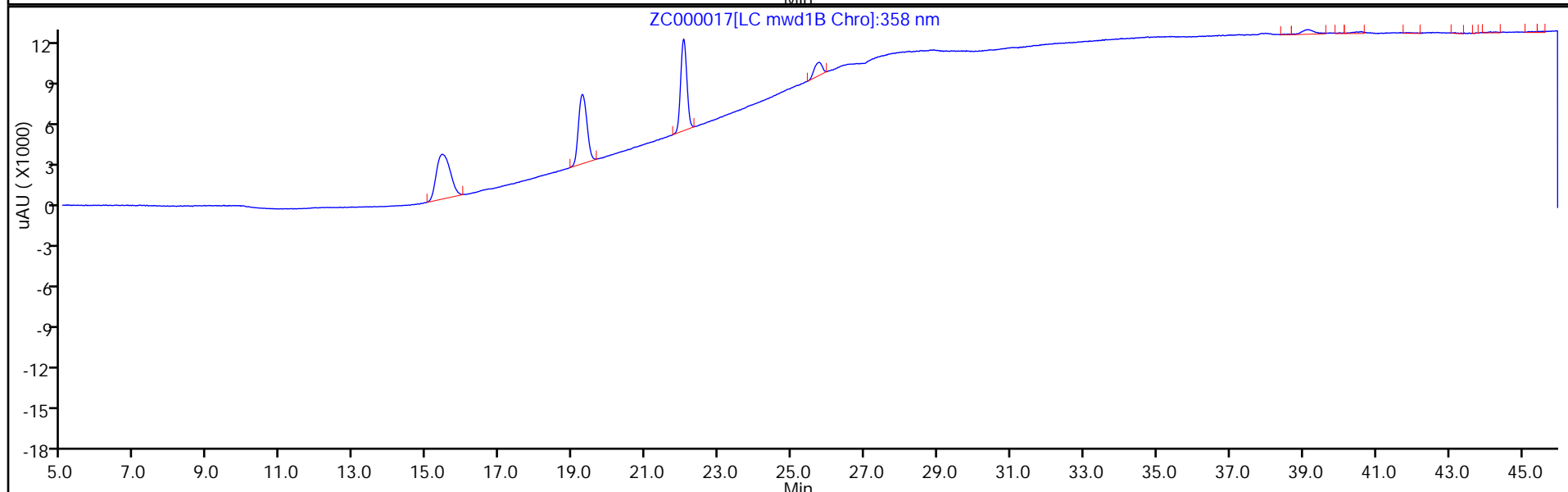
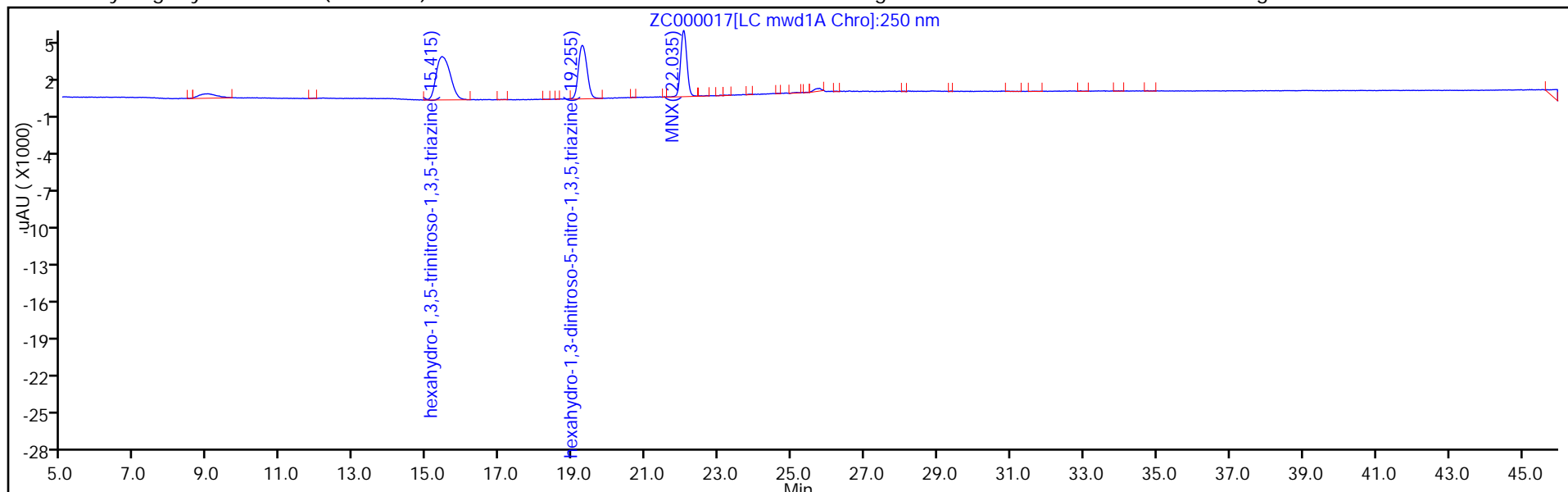
ALS Bottle#: 16

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000018.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 30-May-2014 03:22:53 ALS Bottle#: 17 Worklist Smp#: 18
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012781-018
 Operator ID: TQP Instrument ID: LC11
 Sublist: chrom-8330 Metab LC11*sub6
 Method: \\SACChrom\ChromData\LC11\20140529-12781.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 30-May-2014 13:33:12 Calib Date: 30-May-2014 05:16:15
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000020.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK026

First Level Reviewer: phant Date: 30-May-2014 13:15:22

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

22 hexahydro-1,3,5-trinitroso-1,3,5-triazine							
1	15.422	15.418	0.004	6999H	100.1	101.2	
17 hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazi							
1	19.259	19.254	0.005	8684H	100.0	101.0	
18 MNX							
1	22.035	22.031	0.004	10692H	100.0	100.9	

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000018.D

Injection Date: 30-May-2014 03:22:53

Instrument ID: LC11

Operator ID: TQP

Lims ID: STD5

Worklist Smp#: 18

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

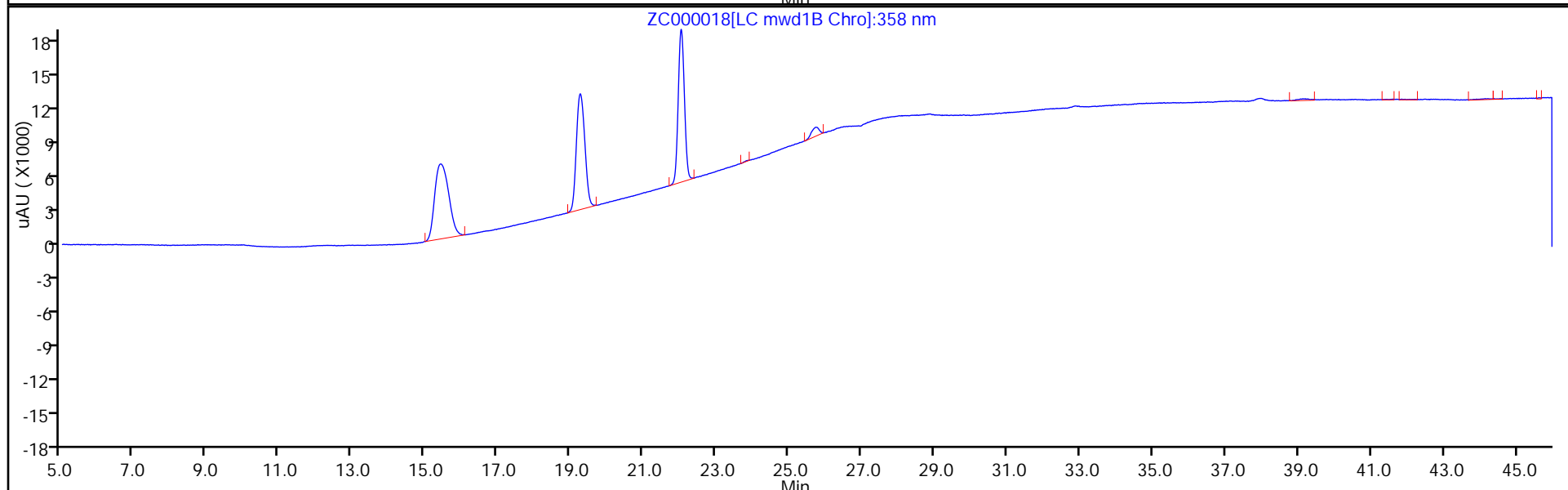
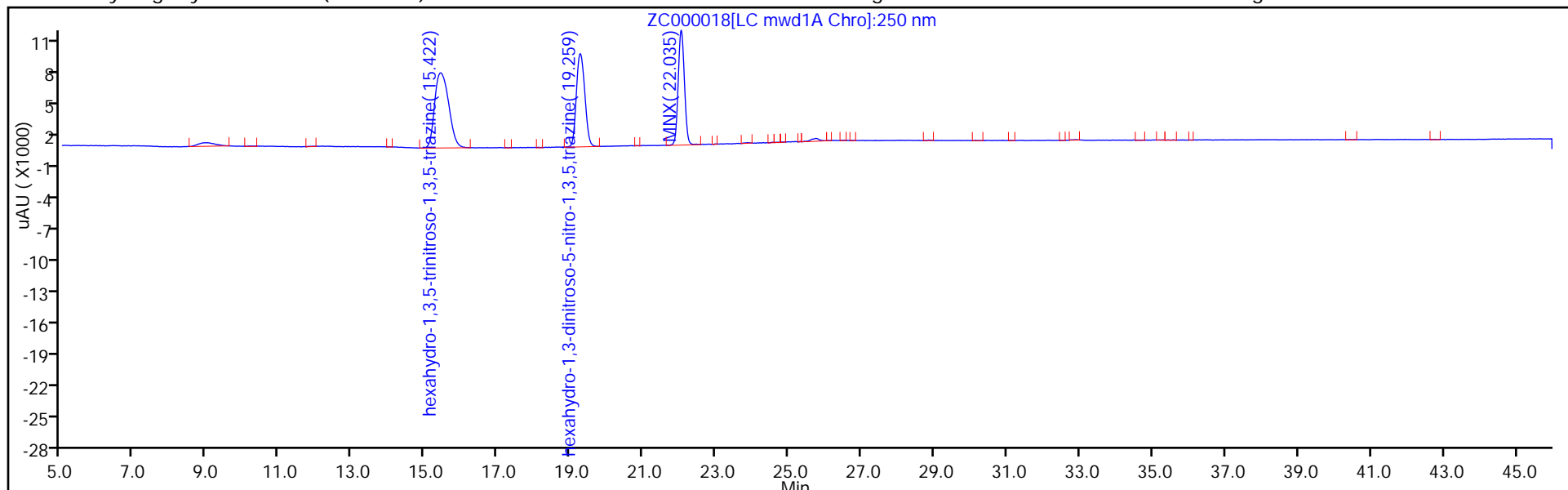
ALS Bottle#: 17

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000019.D
 Lims ID: STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 30-May-2014 04:19:33 ALS Bottle#: 18 Worklist Smp#: 19
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012781-019
 Operator ID: TQP Instrument ID: LC11
 Sublist: chrom-8330 Metab LC11*sub6
 Method: \\SACChrom\ChromData\LC11\20140529-12781.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 30-May-2014 13:33:14 Calib Date: 30-May-2014 05:16:15
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000020.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK026

First Level Reviewer: phant Date: 30-May-2014 13:14:32

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

22 hexahydro-1,3,5-trinitroso-1,3,5-triazine							
1	15.418	15.418	0.000	13822H	200.3	199.9	
17 hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazi							
1	19.254	19.254	0.000	17133H	199.9	199.2	
18 MNX							
1	22.031	22.031	0.000	21156H	200.0	199.7	

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000019.D

Injection Date: 30-May-2014 04:19:33

Instrument ID: LC11

Operator ID: TQP

Lims ID: STD6

Worklist Smp#: 19

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

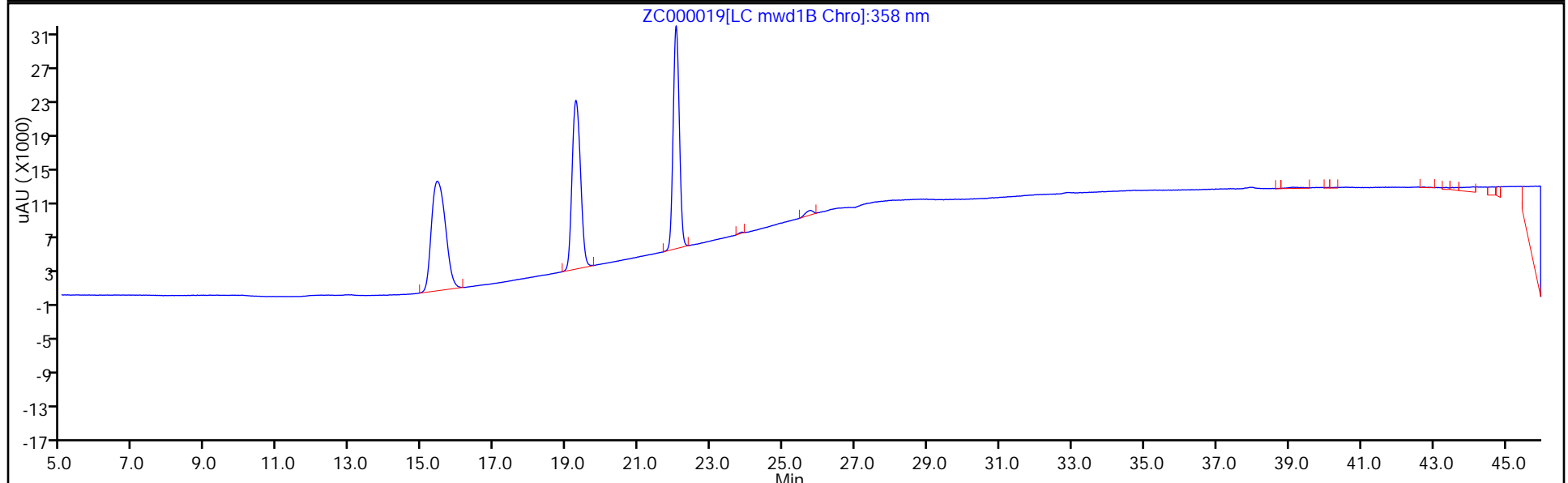
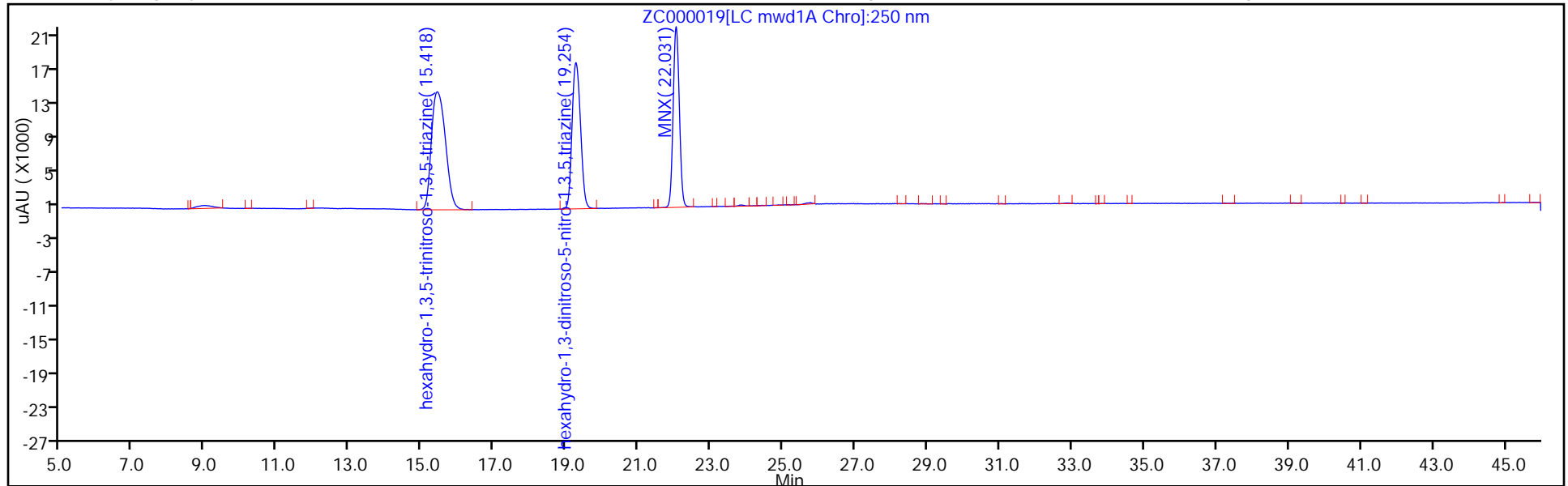
ALS Bottle#: 18

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000020.D
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 30-May-2014 05:16:15 ALS Bottle#: 19 Worklist Smp#: 20
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012781-020
 Operator ID: TQP Instrument ID: LC11
 Sublist: chrom-8330 Metab LC11*sub6
 Method: \\SACChrom\ChromData\LC11\20140529-12781.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 30-May-2014 13:33:15 Calib Date: 30-May-2014 05:16:15
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000020.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK026

First Level Reviewer: phant Date: 30-May-2014 13:14:44

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

22 hexahydro-1,3,5-trinitroso-1,3,5-triazine							
1	15.404	15.418	-0.014	33763H	500.7	488.4	
17 hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazi							
1	19.247	19.254	-0.007	41893H	499.9	487.1	
18 MNX							
1	22.027	22.031	-0.004	52044H	500.0	491.4	

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000020.D

Injection Date: 30-May-2014 05:16:15

Instrument ID: LC11

Operator ID: TQP

Lims ID: STD7

Worklist Smp#: 20

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

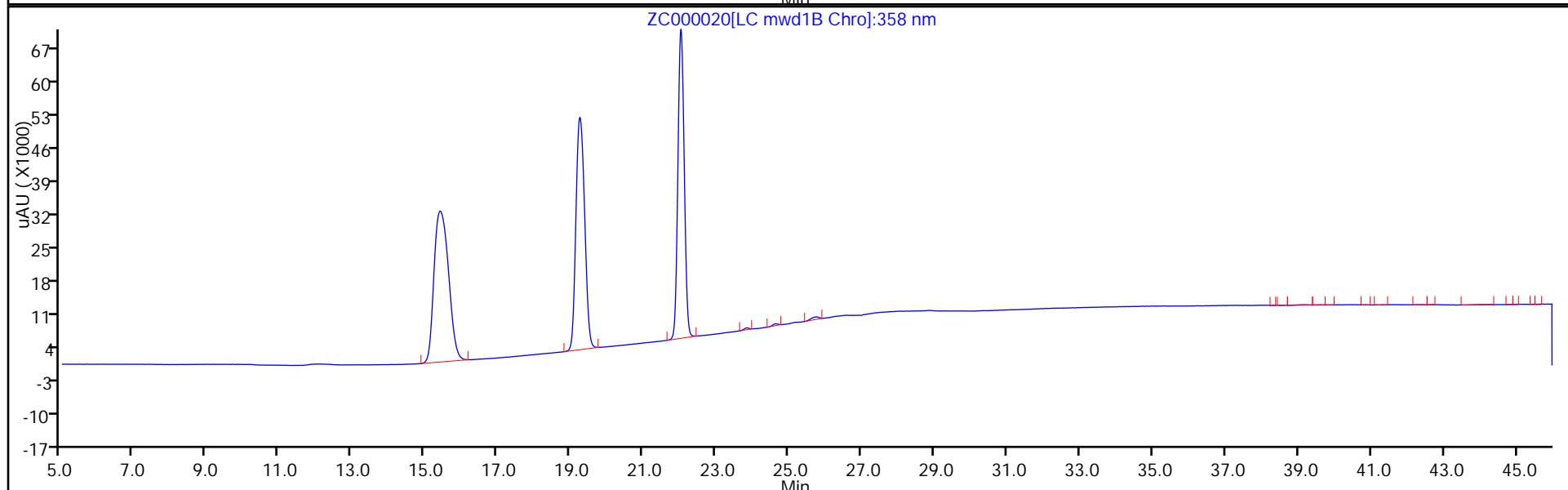
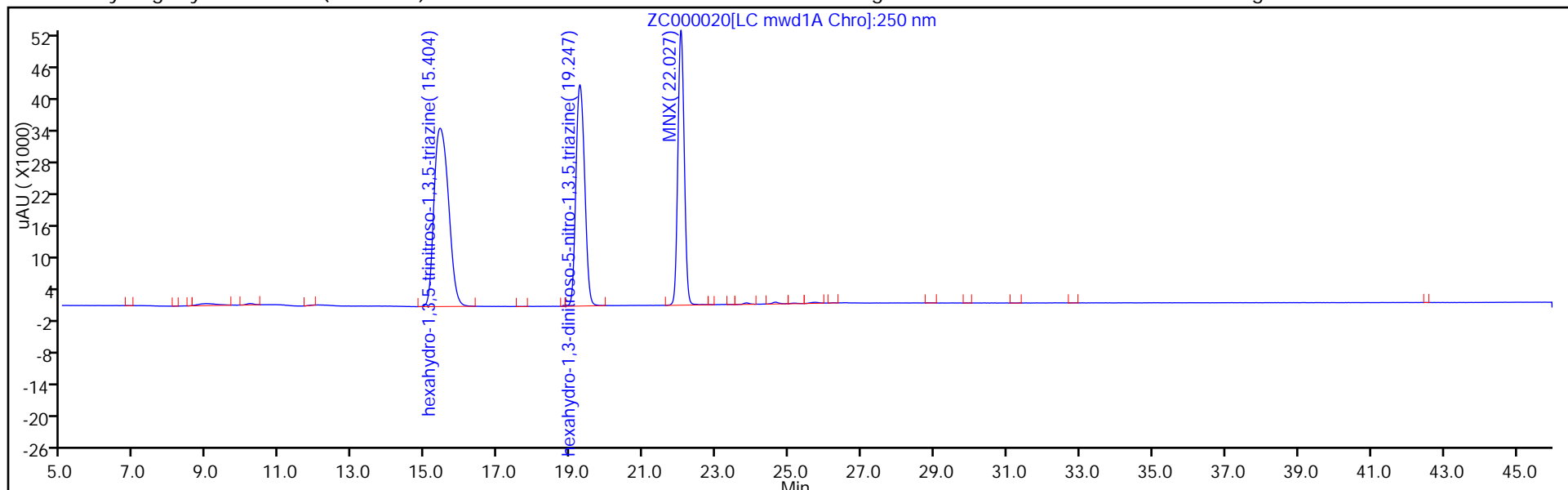
ALS Bottle#: 19

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1 Analy Batch No.: 42409

SDG No.: _____

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/15/2014 12:57 Calibration End Date: 05/15/2014 20:36 Calibration ID: 7315

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 320-42409/4	O000004.D
Level 2	STD02 320-42409/5	O000005.D
Level 3	STD03 320-42409/6	O000006.D
Level 4	STD04 320-42409/7	O000007.D
Level 5	STD05 320-42409/8	O000008.D
Level 6	STD06 320-42409/9	O000009.D
Level 7	STD07 320-42409/10	O000010.D
Level 8	STD08 320-42409/11	O000011.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Picric acid	0.184	0.106	0.198	0.184	0.213	0.126	0.261	0.200			0.000 - 0.376	0.184
Nitrobenzene	22.697	22.666	22.621	22.621	22.613	22.596	22.555	22.466			22.346 - 22.846	22.604
Ethylene glycol dinitrate	24.150	24.156	24.098	24.098	24.126	24.090	24.061	24.003			23.840 - 24.340	24.098
1,3-Dinitrobenzene	25.890	25.859	25.815	25.791	25.793	25.773	25.741	25.673			25.523 - 26.023	25.792
1,3,5-Trinitrobenzene	28.700	28.636	28.628	28.601	28.583	28.570	28.548	28.500			28.320 - 28.820	28.596
2-Nitrotoluene	29.880	29.776	29.748	29.748	29.733	29.713	29.691	29.626			29.463 - 29.963	29.739
4-Nitrotoluene	29.880	29.776	29.748	29.748	29.733	29.713	29.691	29.626			29.463 - 29.963	29.739
3-Nitrotoluene	30.477	30.393	30.368	30.361	30.346	30.330	30.308	30.223			30.080 - 30.580	30.351
3,5-Dinitroaniline	32.234	32.119	32.098	32.098	32.083	32.056	32.045	31.986			31.806 - 32.306	32.090
RDX	32.897	32.786	32.745	32.721	32.729	32.703	32.695	32.616			32.453 - 32.953	32.737
2,4-Dinitrotoluene	33.730	33.606	33.595	33.588	33.576	33.556	33.548	33.483			33.306 - 33.806	33.585
2,6-Dinitrotoluene	34.744	34.613	34.595	34.584	34.573	34.553	34.545	34.476			34.303 - 34.803	34.585
2-Amino-4,6-dinitrotoluene	37.027	36.923	36.908	36.894	36.879	36.860	36.868	36.816			36.610 - 37.110	36.897
4-Amino-2,6-dinitrotoluene	37.550	37.439	37.401	37.384	37.379	37.356	37.358	37.286			37.106 - 37.606	37.394
2,4,6-Trinitrotoluene	41.137	41.046	41.011	41.011	40.999	40.976	40.991	40.950			40.726 - 41.226	41.015
HMX	42.850	42.766	42.745	42.731	42.723	42.713	42.725	42.690			42.463 - 42.963	42.743
Nitroglycerin	45.267	45.173	45.175	45.171	45.156	45.153	45.161	45.133			44.903 - 45.403	45.174
Tetryl	46.840	46.759	46.758	46.754	46.736	46.736	46.745	46.723			46.486 - 46.986	46.756
PETN	53.137	53.076	53.081	53.074	53.066	53.066	53.071	53.066			52.816 - 53.316	53.080
3,4-Dinitrotoluene	38.994	38.953	38.901	38.881	38.876	38.860	38.861	38.810			38.610 - 39.110	38.892

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1 Analy Batch No.: 42409

SDG No.: _____

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/15/2014 12:57 Calibration End Date: 05/15/2014 20:36 Calibration ID: 7315

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 320-42409/4	O000004.D
Level 2	STD02 320-42409/5	O000005.D
Level 3	STD03 320-42409/6	O000006.D
Level 4	STD04 320-42409/7	O000007.D
Level 5	STD05 320-42409/8	O000008.D
Level 6	STD06 320-42409/9	O000009.D
Level 7	STD07 320-42409/10	O000010.D
Level 8	STD08 320-42409/11	O000011.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4		B	M1	M2								
	LVL 5	LVL 6	LVL 7	LVL 8												
Picric acid	16.800 0.65000	5.4500 0.20400	2.0200 0.16200	1.8400 0.051500	Ave		3.39718750			170.0	*	20.0				
Nitrobenzene	53.200 49.260	48.600 47.675	47.650 42.840	47.640 36.866	Lin2	45.6818514	44.5008052						0.9910			0.9900
Ethylene glycol dinitrate	23.800 21.670	21.200 21.140	22.750 20.260	20.960 19.546	Ave		21.4157500			6.3		20.0				
1,3-Dinitrobenzene	103.20 99.340	102.00 97.420	100.65 90.090	96.220 80.033	Ave		96.1191250			8.0		20.0				
1,3,5-Trinitrobenzene	80.200 76.020	79.100 75.630	78.800 71.232	74.800 66.679	Ave		75.3076250			6.0		20.0				
2-Nitrotoluene	77.600 62.240	65.800 61.745	65.350 56.192	61.960 51.787	Lin2	97.1094061	58.1244438						0.9950			0.9900
4-Nitrotoluene	77.600 62.240	65.800 61.745	65.350 56.192	61.960 51.787	Lin2	97.1094061	58.1244438						0.9950			0.9900
3-Nitrotoluene	49.000 36.070	42.200 35.910	40.400 32.464	36.540 30.208	Lin2	79.5268911	33.9919458						0.9950			0.9900
3,5-Dinitroaniline	90.200 76.330	83.900 75.645	81.950 70.080	75.960 63.737	Ave		77.2252500			11.0		20.0				
RDX	52.800 42.040	45.200 41.660	46.950 38.238	42.320 34.850	Lin2	68.0203730	39.7082619						0.9940			0.9900
2,4-Dinitrotoluene	90.800 82.130	83.400 81.590	86.000 76.342	81.000 71.226	Ave		81.5610000			7.2		20.0				
2,6-Dinitrotoluene	57.600 48.780	50.800 48.490	52.550 45.168	47.880 42.370	Ave		49.2047500			9.4		20.0				
2-Amino-4,6-dinitrotoluene	67.200 72.850	70.000 72.400	71.950 68.754	70.240 63.989	Ave		69.6728750			4.3		20.0				
4-Amino-2,6-dinitrotoluene	62.200 61.780	62.700 61.330	61.050 58.502	60.000 55.406	Ave		60.3710000			4.0		20.0				

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1 Analy Batch No.: 42409

SDG No.: _____

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/15/2014 12:57 Calibration End Date: 05/15/2014 20:36 Calibration ID: 7315

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
2,4,6-Trinitrotoluene	81.600 78.220	79.400 78.135	78.300 75.494	76.620 73.431	Ave		77.6500000			3.2		20.0				
HMX	60.600 57.210	58.600 56.580	56.600 54.656	55.280 52.803	Ave		56.5411250			4.2		20.0				
Nitroglycerin	82.200 82.410	73.000 81.900	77.100 81.470	82.120 83.870	Ave		80.5087500			4.5		20.0				
Tetryl	118.60 116.99	119.60 116.38	116.35 113.60	113.38 113.00	Ave		115.986875			2.1		20.0				
PETN	131.80 136.56	112.20 136.86	127.50 136.66	134.78 144.47	Ave		132.603125			7.2		20.0				
3,4-Dinitrotoluene	52.400 47.180	52.200 46.705	48.450 43.896	46.760 42.317	Ave		47.4885000			7.5		20.0				

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1 Analy Batch No.: 42409

SDG No.: _____

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/15/2014 12:57 Calibration End Date: 05/15/2014 20:36 Calibration ID: 7315

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 320-42409/4	O000004.D
Level 2	STD02 320-42409/5	O000005.D
Level 3	STD03 320-42409/6	O000006.D
Level 4	STD04 320-42409/7	O000007.D
Level 5	STD05 320-42409/8	O000008.D
Level 6	STD06 320-42409/9	O000009.D
Level 7	STD07 320-42409/10	O000010.D
Level 8	STD08 320-42409/11	O000011.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Picric acid	Ave	168 102	109 162	101 103	184	130	10.0 500	20.0 1000	50.0 2000	100	200
Nitrobenzene	Lin2	266 9535	486 21420	953 36866	2382	4926	5.00 200	10.0 500	20.0 1000	50.0	100
Ethylene glycol dinitrate	Ave	119 4228	212 10130	455 19546	1048	2167	5.00 200	10.0 500	20.0 1000	50.0	100
1,3-Dinitrobenzene	Ave	516 19484	1020 45045	2013 80033	4811	9934	5.00 200	10.0 500	20.0 1000	50.0	100
1,3,5-Trinitrobenzene	Ave	401 15126	791 35616	1576 66679	3740	7602	5.00 200	10.0 500	20.0 1000	50.0	100
2-Nitrotoluene	Lin2	388 12349	658 28096	1307 51787	3098	6224	5.00 200	10.0 500	20.0 1000	50.0	100
4-Nitrotoluene	Lin2	388 12349	658 28096	1307 51787	3098	6224	5.00 200	10.0 500	20.0 1000	50.0	100
3-Nitrotoluene	Lin2	245 7182	422 16232	808 30208	1827	3607	5.00 200	10.0 500	20.0 1000	50.0	100
3,5-Dinitroaniline	Ave	451 15129	839 35040	1639 63737	3798	7633	5.00 200	10.0 500	20.0 1000	50.0	100
RDX	Lin2	264 8332	452 19119	939 34850	2116	4204	5.00 200	10.0 500	20.0 1000	50.0	100
2,4-Dinitrotoluene	Ave	454 16318	834 38171	1720 71226	4050	8213	5.00 200	10.0 500	20.0 1000	50.0	100
2,6-Dinitrotoluene	Ave	288 9698	508 22584	1051 42370	2394	4878	5.00 200	10.0 500	20.0 1000	50.0	100
2-Amino-4,6-dinitrotoluene	Ave	336 14480	700 34377	1439 63989	3512	7285	5.00 200	10.0 500	20.0 1000	50.0	100
4-Amino-2,6-dinitrotoluene	Ave	311 12266	627 29251	1221 55406	3000	6178	5.00 200	10.0 500	20.0 1000	50.0	100
2,4,6-Trinitrotoluene	Ave	408 15627	794 37747	1566 73431	3831	7822	5.00 200	10.0 500	20.0 1000	50.0	100

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1 Analy Batch No.: 42409

SDG No.: _____

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/15/2014 12:57 Calibration End Date: 05/15/2014 20:36 Calibration ID: 7315

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
HMX	Ave	303 11316	586 27328	1132 52803	2764	5721	5.00 200	10.0 500	20.0 1000	50.0	100
Nitroglycerin	Ave	411 16380	730 40735	1542 83870	4106	8241	5.00 200	10.0 500	20.0 1000	50.0	100
Tetryl	Ave	593 23275	1196 56801	2327 112998	5669	11699	5.00 200	10.0 500	20.0 1000	50.0	100
PETN	Ave	659 27372	1122 68329	2550 144467	6739	13656	5.00 200	10.0 500	20.0 1000	50.0	100
3,4-Dinitrotoluene	Ave	262 9341	522 21948	969 42317	2338	4718	5.00 200	10.0 500	20.0 1000	50.0	100

Curve Type Legend:

Ave = Average by Height
Lin2 = Linear 1/conc^2 by height

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000004.D
 Lims ID: STD01
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 15-May-2014 12:57:25 ALS Bottle#: 3 Worklist Smp#: 4
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012486-004
 Operator ID: TQP Instrument ID: LC12
 Sublist: chrom-LC12_Conf_8330*sub1
 Method: \\SACChrom\ChromData\LC12\20140515-12486.b\LC12_Conf_8330.m
 Limit Group: LC 8330A ICAL
 Last Update: 16-May-2014 11:58:38 Calib Date: 15-May-2014 20:36:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000011.D
 Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK036

First Level Reviewer: phant Date: 16-May-2014 08:56:01

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
10 2,4,6-Trinitrophenol							
2	0.184	0.126	0.058	168H	10.0	49.5	
1	0.184	0.126	0.058	163H	10.0	49.1	
5 Nitrobenzene							
1	22.697	22.596	0.101	266H	5.00	4.95	
3 Ethylene glycol dinitrate							
2	24.150	24.090	0.060	119H	5.00	5.56	
24 1,3-Dinitrobenzene							
1	25.890	25.773	0.117	516H	5.00	5.37	
27 1,3,5-Trinitrobenzene							
1	28.700	28.570	0.130	401H	5.00	5.32	M
16 o-Nitrotoluene							
1	29.880	29.713	0.167	388H	5.00	5.00	M
15 p-Nitrotoluene							
1	29.880	29.713	0.167	388H	5.00	5.00	M
8 m-Nitrotoluene							
1	30.477	30.330	0.147	245H	5.00	4.87	M
9 3,5-Dinitroaniline							
1	32.234	32.056	0.178	451H	5.00	5.84	M
19 RDX							
1	32.897	32.703	0.194	264H	5.00	4.94	M
23 2,4-Dinitrotoluene							
1	33.730	33.556	0.174	454H	5.00	5.57	M
12 2,6-Dinitrotoluene							
1	34.744	34.553	0.191	288H	5.00	5.85	M
6 2-Amino-4,6-dinitrotoluene							
1	37.027	36.860	0.167	336H	5.00	4.82	
26 4-Amino-2,6-dinitrotoluene							
1	37.550	37.356	0.194	311H	5.00	5.15	

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000004.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

\$ 30	3,4-Dinitrotoluene						
1	38.994	38.860	0.134	262H	5.00	5.52	
25	2,4,6-Trinitrotoluene						
1	41.137	40.976	0.161	408H	5.00	5.25	
11	HMX						
1	42.850	42.713	0.137	303H	5.00	5.36	
7	Nitroglycerin						
2	45.267	45.153	0.114	411H	5.00	5.11	M
20	Tetryl						
1	46.840	46.736	0.104	593H	5.00	5.11	
21	PETN						
2	53.137	53.066	0.071	659H	5.00	4.97	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000004.D

Injection Date: 15-May-2014 12:57:25

Instrument ID: LC12

Operator ID: TQP

Lims ID: STD01

Worklist Smp#: 4

Client ID:

Injection Vol: 500.0 ul

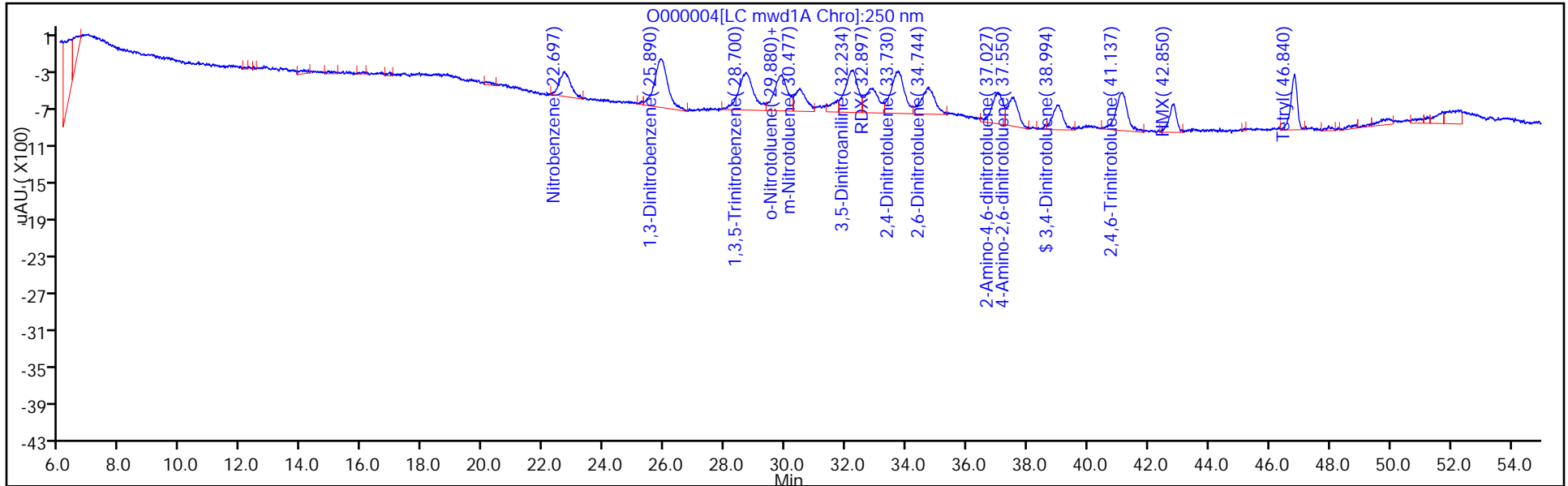
Dil. Factor: 1.0000

ALS Bottle#: 3

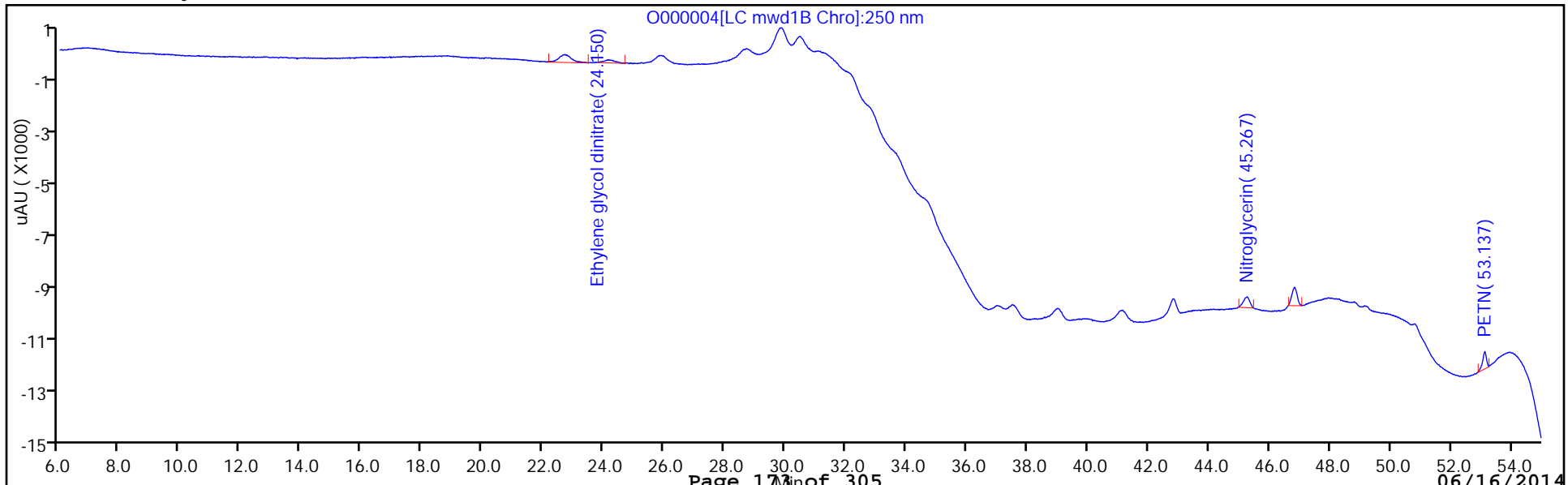
Method: LC12_Conf_8330

Limit Group: LC 8330A ICAL

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



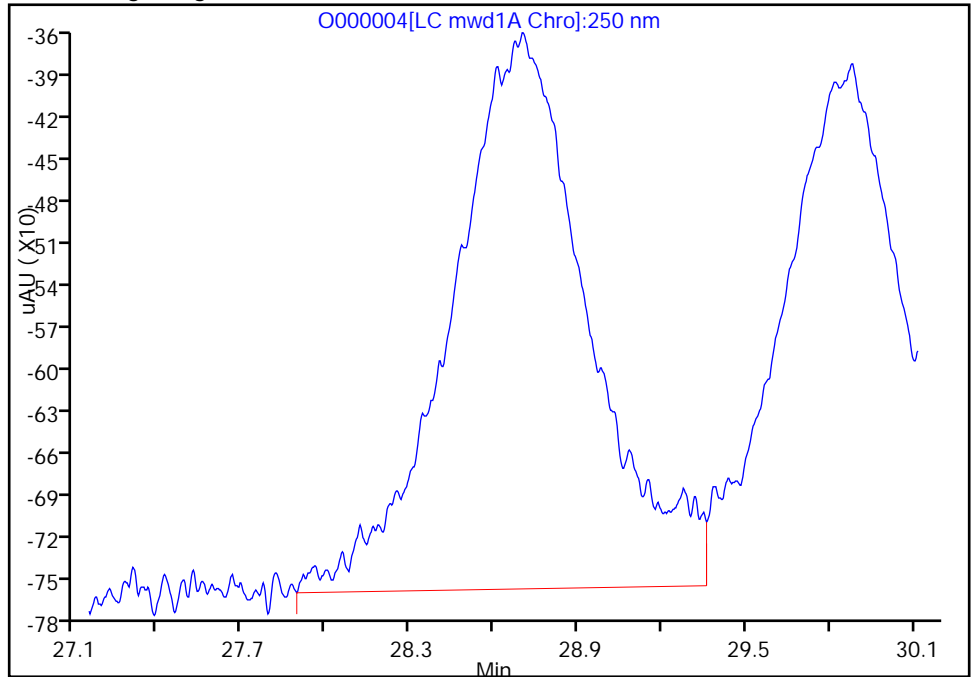
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000004.D
Injection Date: 15-May-2014 12:57:25 Instrument ID: LC12
Lims ID: STD01
Client ID:
Operator ID: TQP ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector: LC mwd1A, 250 nm

27 1,3,5-Trinitrobenzene, CAS: 99-35-4

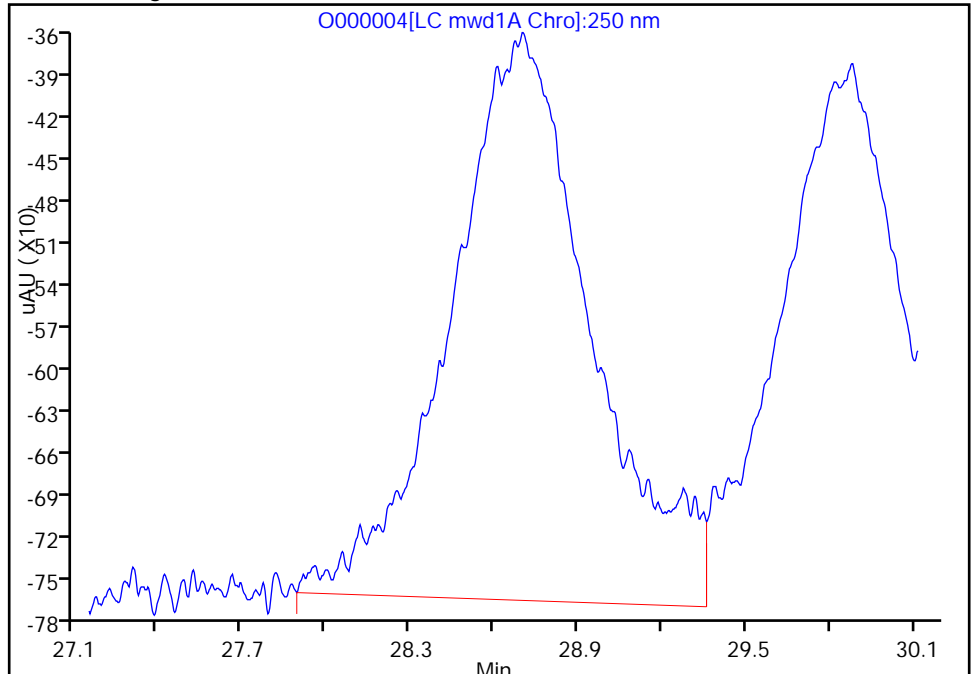
RT: 28.70
Response: 393
Amount: 5.232491

Processing Integration Results



RT: 28.70
Response: 401
Amount: 5.324826

Manual Integration Results



Reviewer: phant, 16-May-2014 09:17:19
Audit Action: Assigned New Baseline
Audit Reason: Baseline

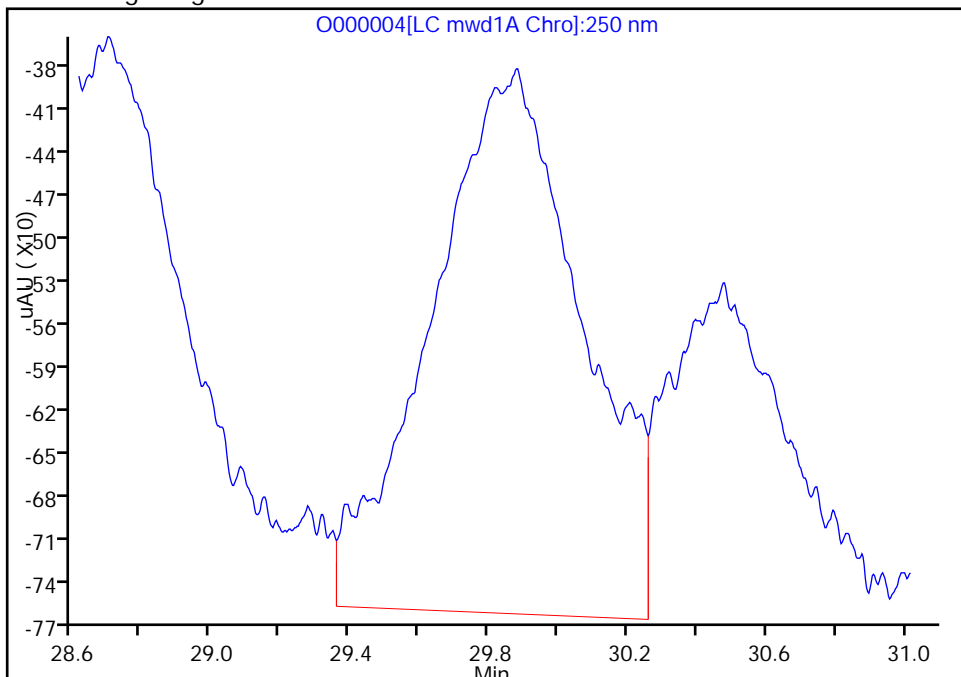
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000004.D
Injection Date: 15-May-2014 12:57:25 Instrument ID: LC12
Lims ID: STD01
Client ID:
Operator ID: TQP ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector: LC mwd1A, 250 nm

16 o-Nitrotoluene, CAS: 88-72-2

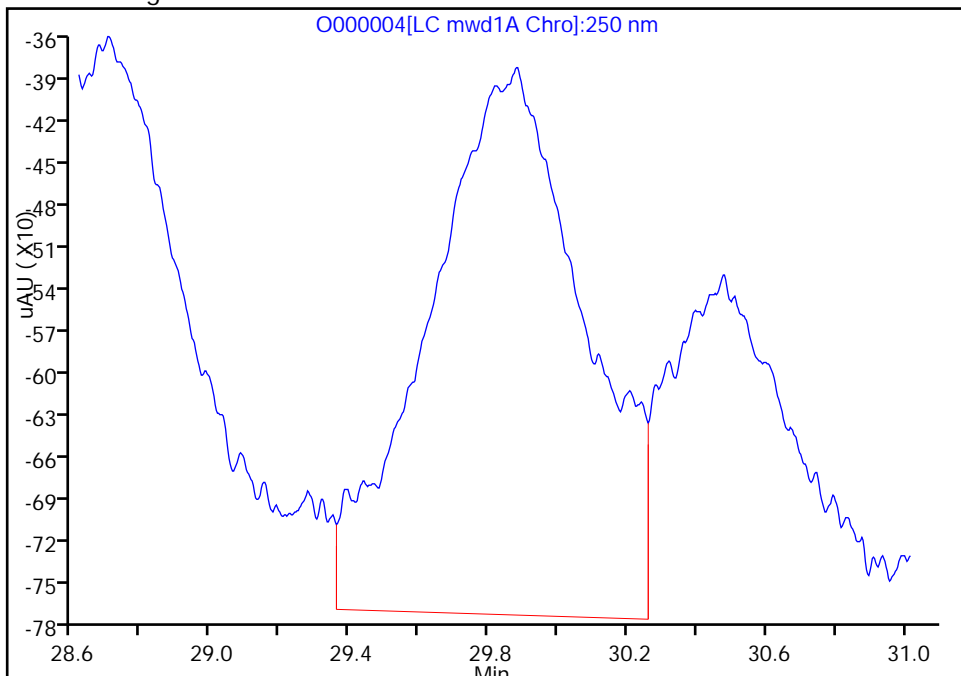
RT: 29.88
Response: 374
Amount: 5.985508

Processing Integration Results



RT: 29.88
Response: 388
Amount: 5.004617

Manual Integration Results



Reviewer: phant, 16-May-2014 09:17:19
Audit Action: Assigned New Baseline
Audit Reason: Baseline

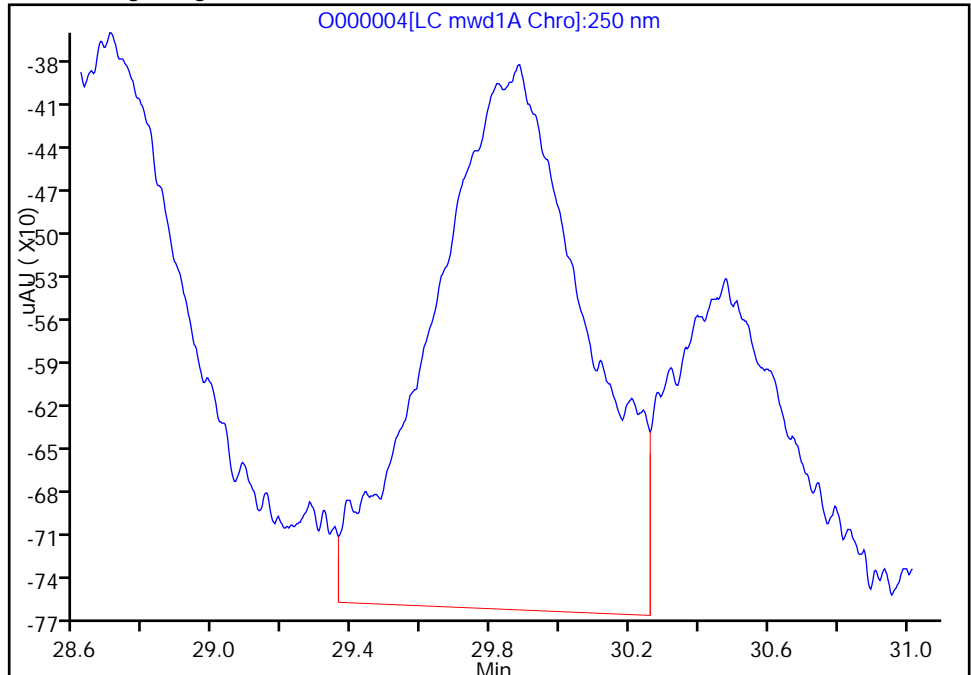
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000004.D
Injection Date: 15-May-2014 12:57:25 Instrument ID: LC12
Lims ID: STD01
Client ID:
Operator ID: TQP ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector: LC mwd1A, 250 nm

15 p-Nitrotoluene, CAS: 99-99-0

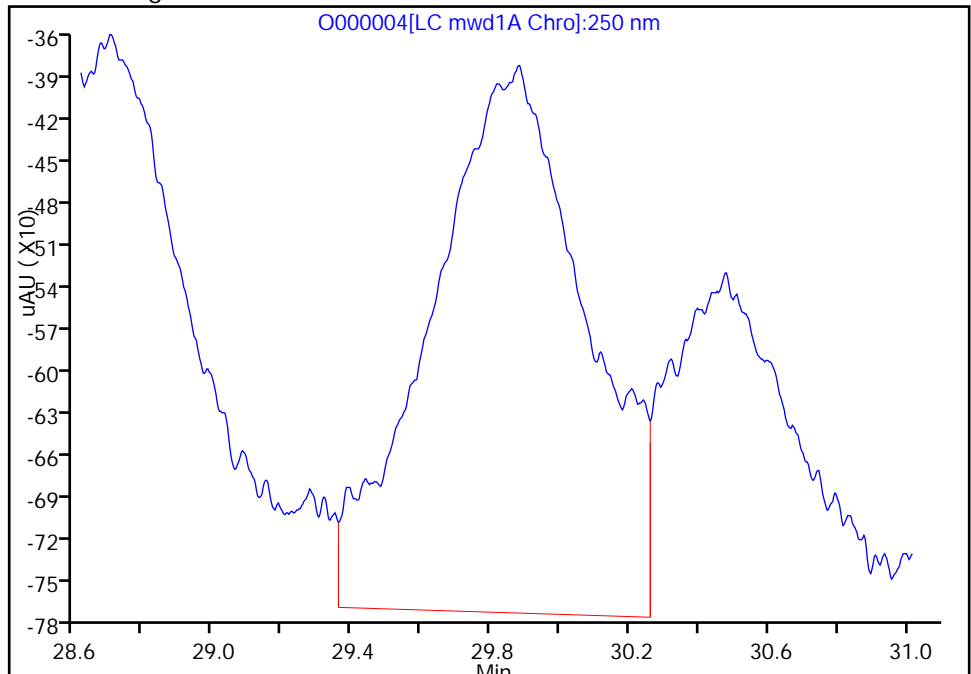
RT: 29.88
Response: 374
Amount: 5.985508

Processing Integration Results



RT: 29.88
Response: 388
Amount: 5.004617

Manual Integration Results



Reviewer: phant, 16-May-2014 09:17:19
Audit Action: Assigned New Baseline
Audit Reason: Baseline

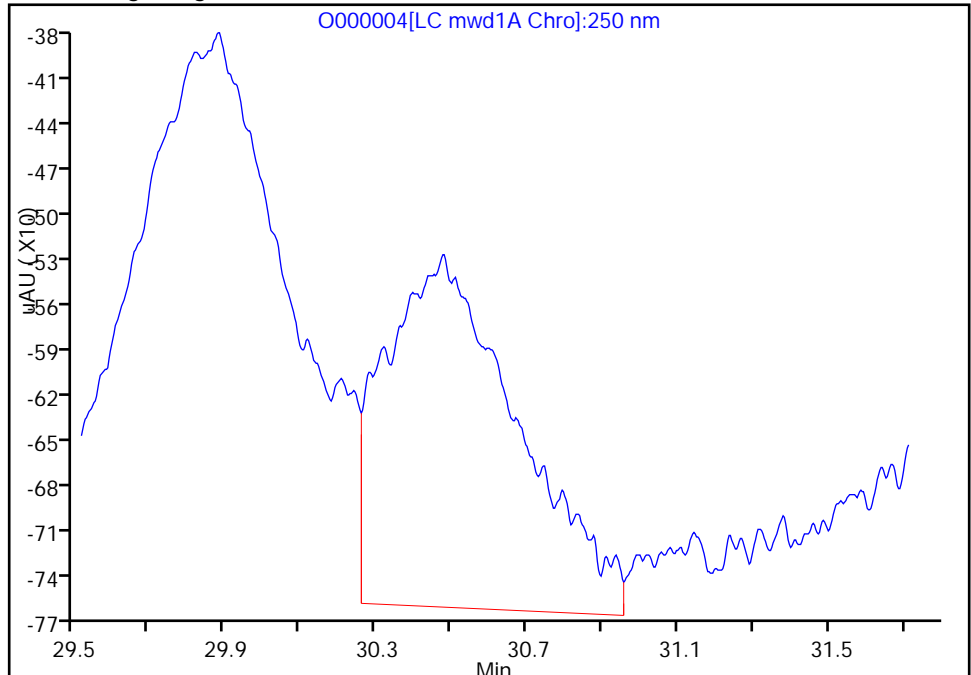
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000004.D
Injection Date: 15-May-2014 12:57:25 Instrument ID: LC12
Lims ID: STD01
Client ID:
Operator ID: TQP ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector: LC mwd1A, 250 nm

8 m-Nitrotoluene, CAS: 99-08-1

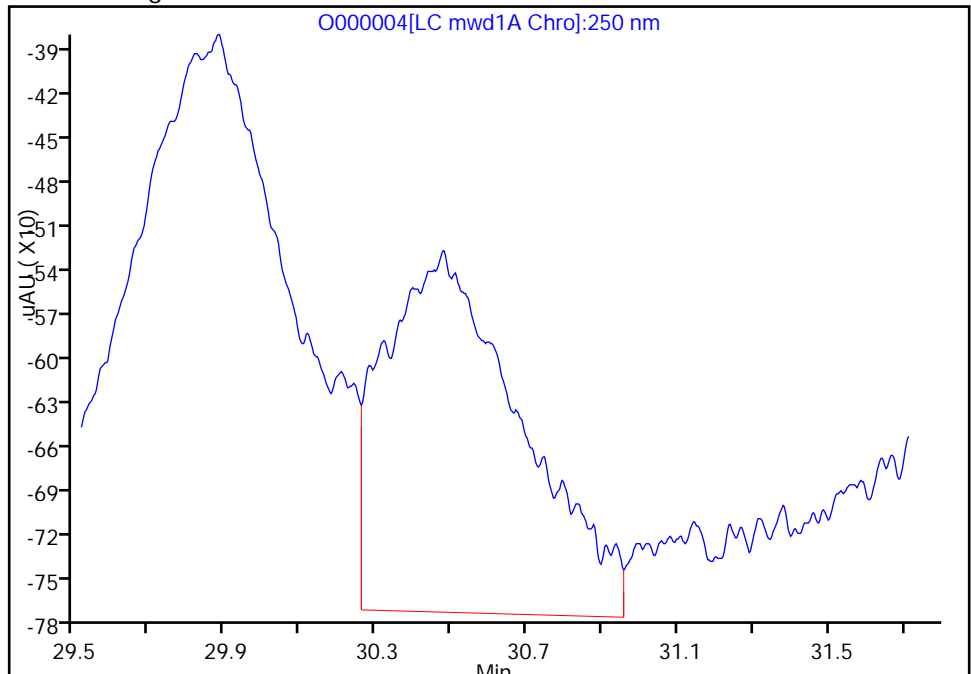
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Amount: 6.205225

Processing Integration Results



RT: 30.48
Response: 245
Amount: 4.868009

Manual Integration Results



Reviewer: phant, 16-May-2014 09:17:19
Audit Action: Assigned New Baseline
Audit Reason: Baseline

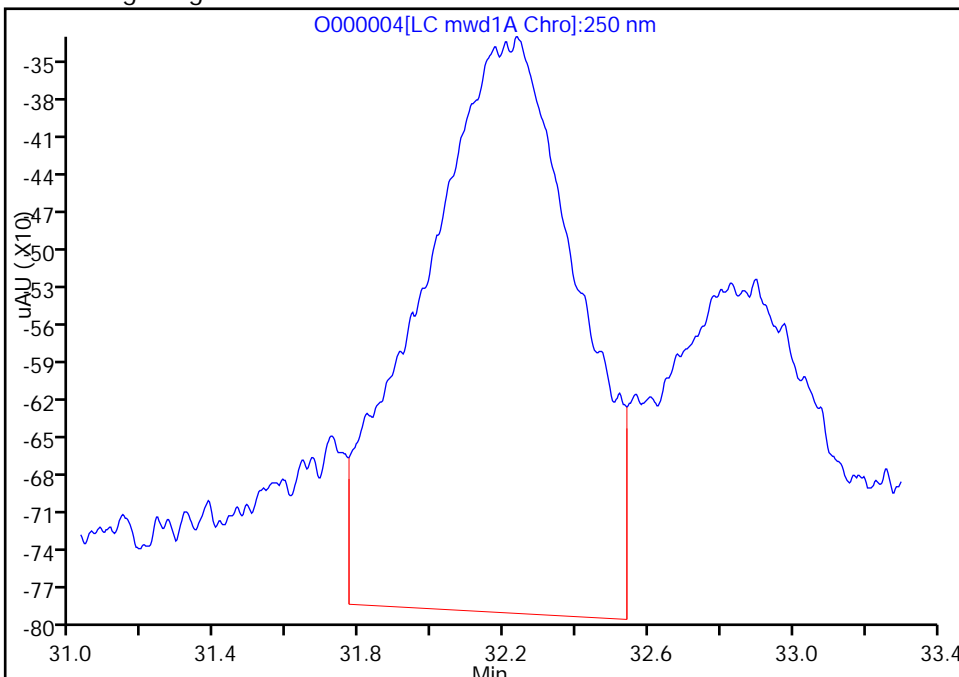
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000004.D
Injection Date: 15-May-2014 12:57:25 Instrument ID: LC12
Lims ID: STD01
Client ID:
Operator ID: TQP ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector: LC mwd1A, 250 nm

9 3,5-Dinitroaniline, CAS: 618-87-1

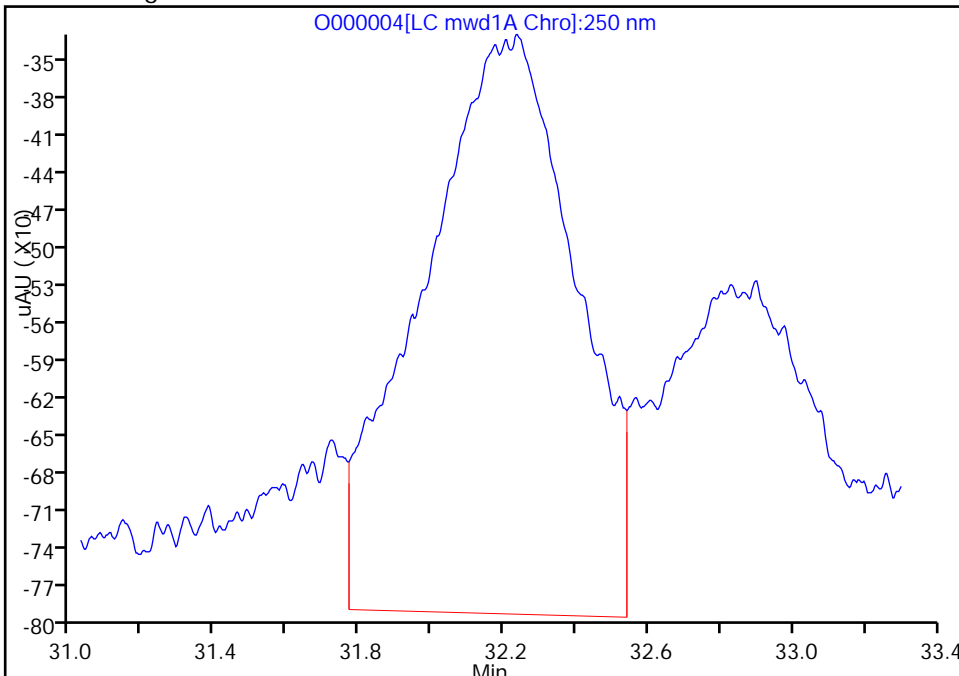
RT: 32.24
Response: 456
Amount: 5.895262

Processing Integration Results



RT: 32.23
Response: 451
Amount: 5.840059

Manual Integration Results



Reviewer: phant, 16-May-2014 09:17:19
Audit Action: Assigned New Baseline
Audit Reason: Baseline

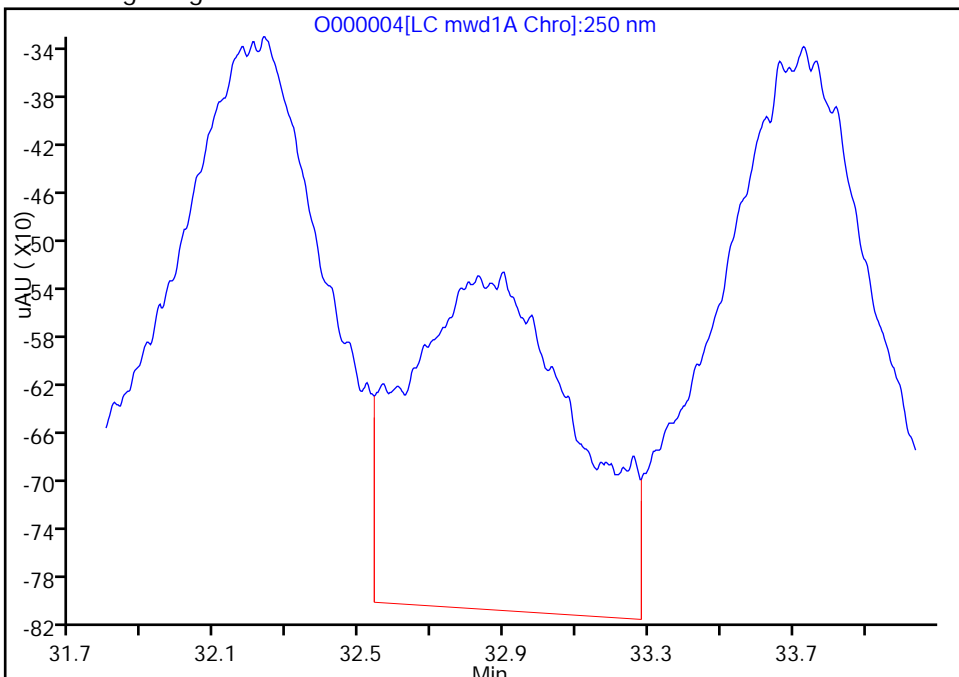
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000004.D
Injection Date: 15-May-2014 12:57:25 Instrument ID: LC12
Lims ID: STD01
Client ID:
Operator ID: TQP ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector: LC mwd1A, 250 nm

19 RDX, CAS: 121-82-4

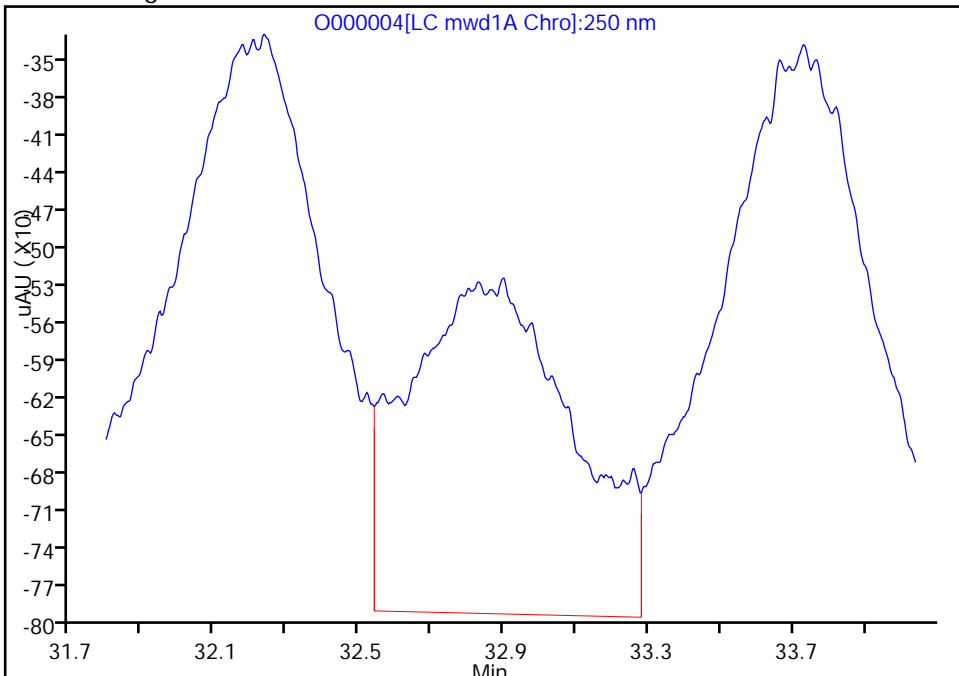
RT: 32.90
Response: 275
Amount: 6.353644

Processing Integration Results



RT: 32.90
Response: 264
Amount: 4.935487

Manual Integration Results



Reviewer: phant, 16-May-2014 09:17:19
Audit Action: Assigned New Baseline
Audit Reason: Baseline

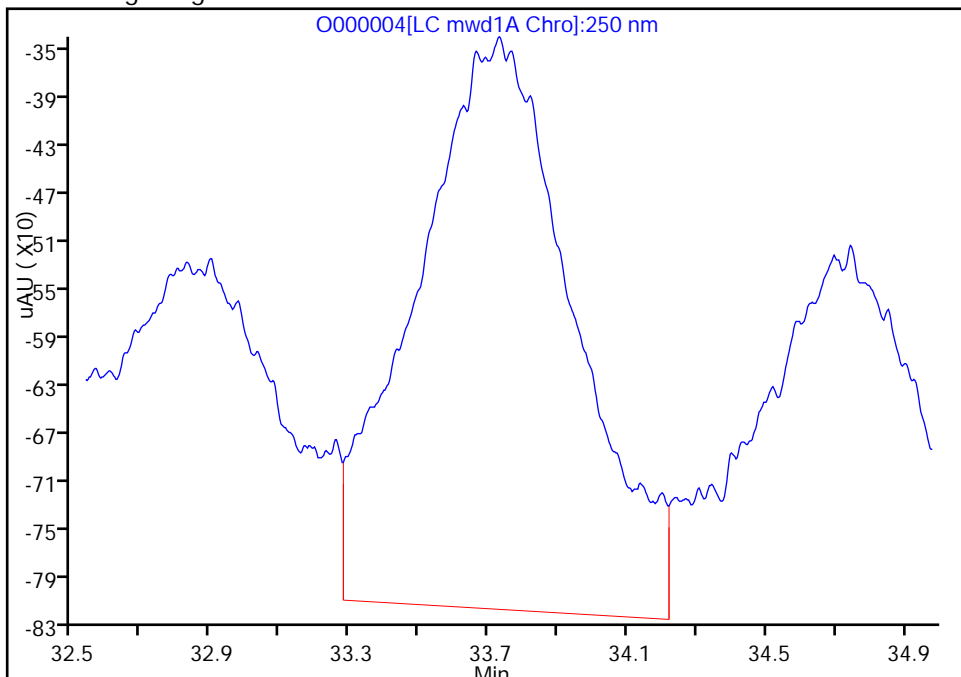
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000004.D
Injection Date: 15-May-2014 12:57:25 Instrument ID: LC12
Lims ID: STD01
Client ID:
Operator ID: TQP ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector: LC mwd1A, 250 nm

23 2,4-Dinitrotoluene, CAS: 121-14-2

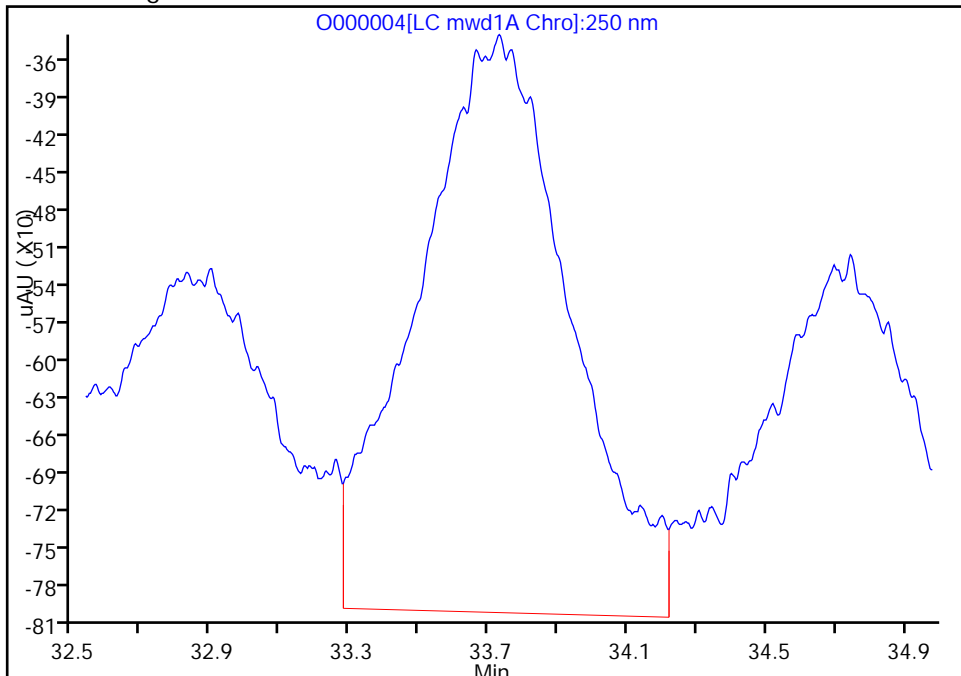
RT: 33.73
Response: 474
Amount: 5.776191

Processing Integration Results



RT: 33.73
Response: 454
Amount: 5.566386

Manual Integration Results



Reviewer: phant, 16-May-2014 09:17:19
Audit Action: Assigned New Baseline
Audit Reason: Baseline

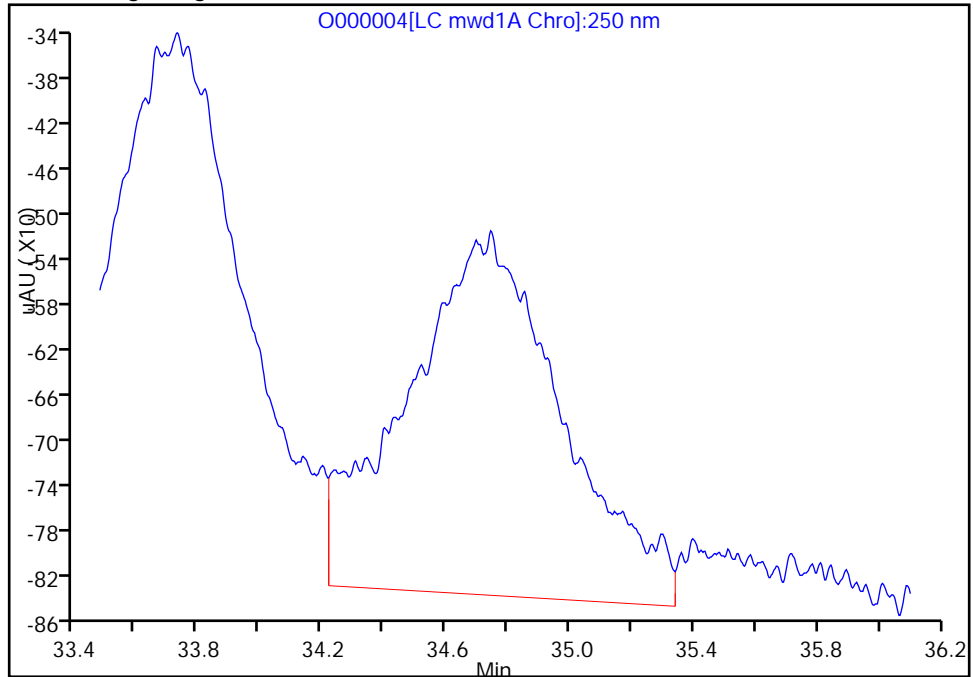
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000004.D
Injection Date: 15-May-2014 12:57:25 Instrument ID: LC12
Lims ID: STD01
Client ID:
Operator ID: TQP ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector: LC mwd1A, 250 nm

12,6-Dinitrotoluene, CAS: 606-20-2

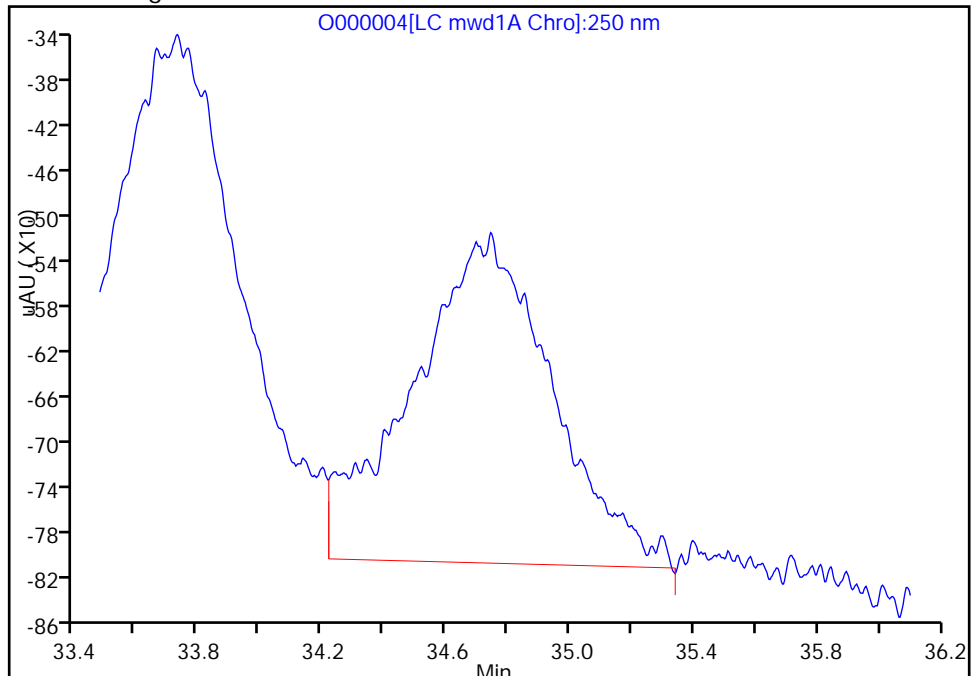
RT: 34.74
Response: 318
Amount: 6.365761

Processing Integration Results



RT: 34.74
Response: 288
Amount: 5.853093

Manual Integration Results



Reviewer: phant, 16-May-2014 09:17:19
Audit Action: Assigned New Baseline
Audit Reason: Baseline

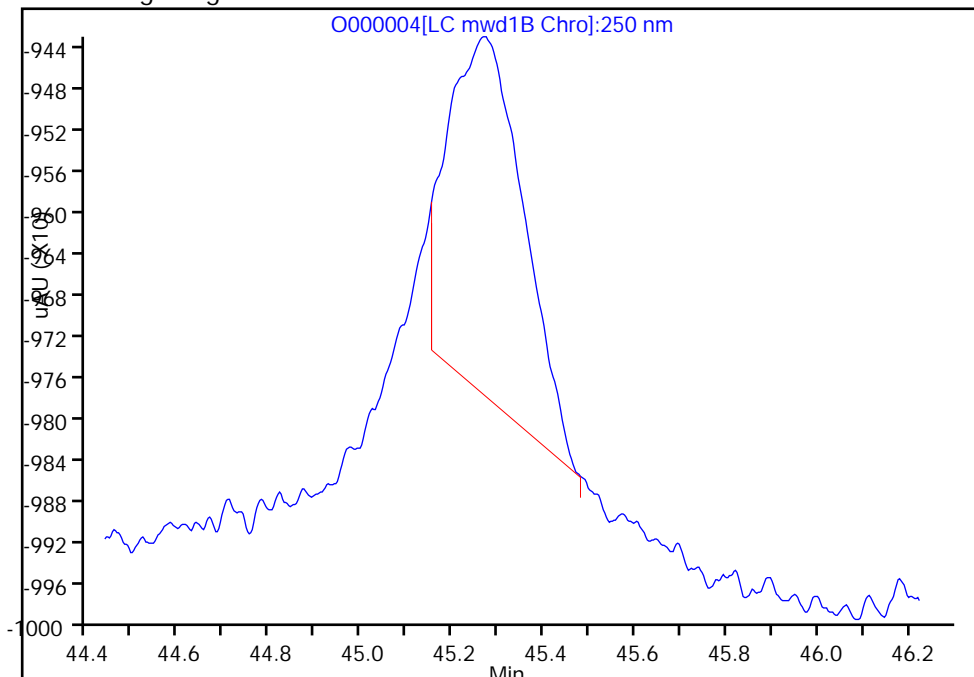
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000004.D
Injection Date: 15-May-2014 12:57:25 Instrument ID: LC12
Lims ID: STD01
Client ID:
Operator ID: TQP ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1B, 358 nm

7 Nitroglycerin, CAS: 55-63-0

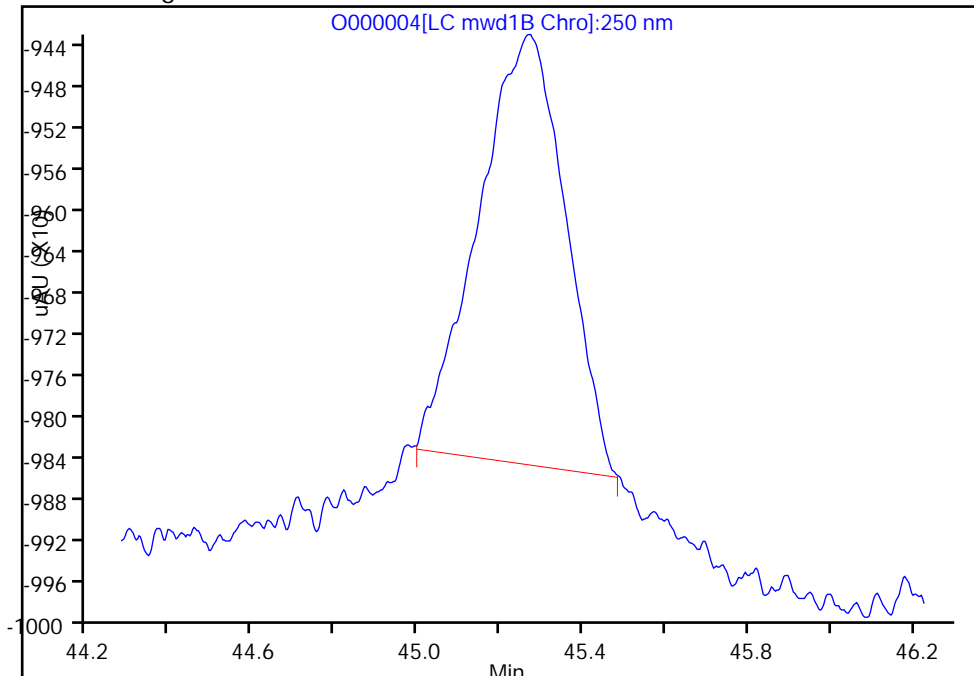
RT: 45.27
Response: 344
Amount: 4.400595

Processing Integration Results



RT: 45.27
Response: 411
Amount: 5.105035

Manual Integration Results



Reviewer: phant, 16-May-2014 09:17:19
Audit Action: Manually Integrated
Audit Reason: Baseline

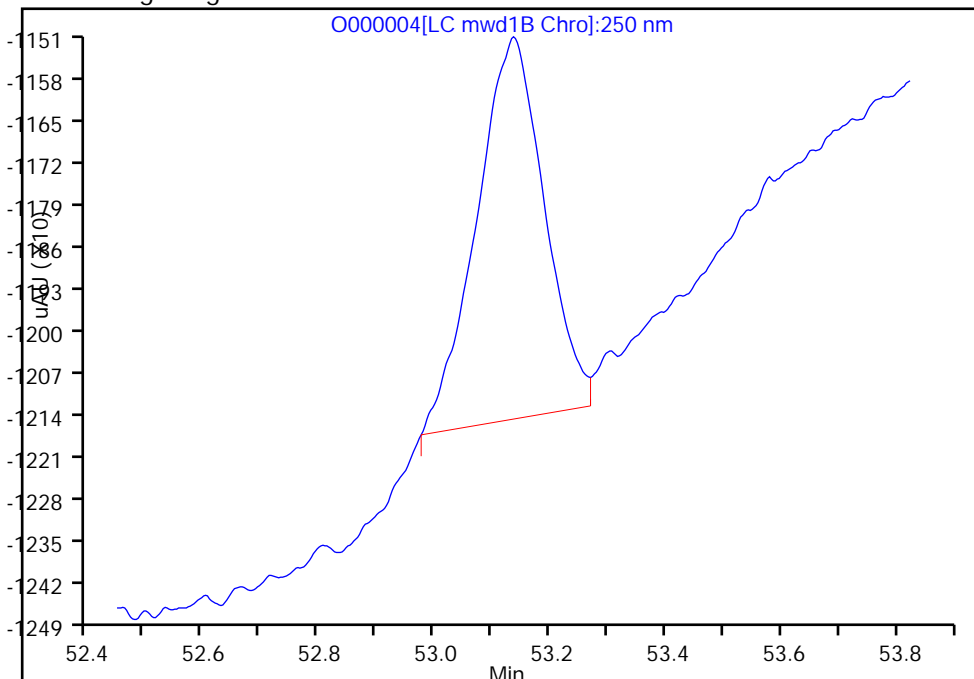
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000004.D
Injection Date: 15-May-2014 12:57:25 Instrument ID: LC12
Lims ID: STD01
Client ID:
Operator ID: TQP ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

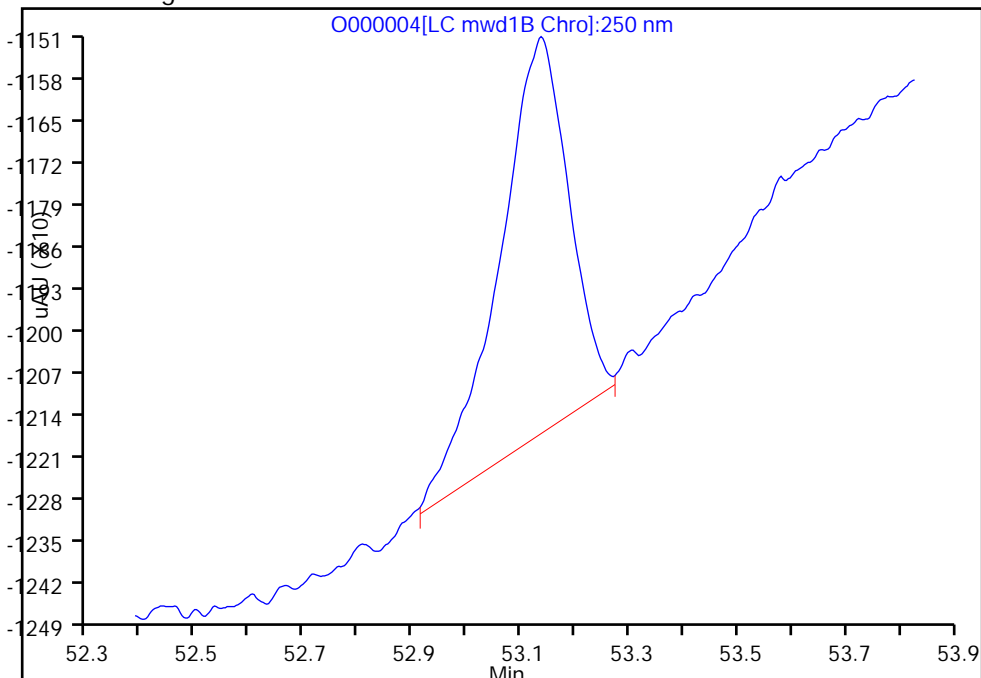
RT: 53.14
Response: 633
Amount: 4.782660

Processing Integration Results



RT: 53.14
Response: 659
Amount: 4.969717

Manual Integration Results



Reviewer: phant, 16-May-2014 09:17:19
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000005.D
 Lims ID: STD02
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 15-May-2014 14:03:04 ALS Bottle#: 4 Worklist Smp#: 5
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012486-005
 Operator ID: TQP Instrument ID: LC12
 Sublist: chrom-LC12_Conf_8330*sub1
 Method: \\SACChrom\ChromData\LC12\20140515-12486.b\LC12_Conf_8330.m
 Limit Group: LC 8330A ICAL
 Last Update: 16-May-2014 11:58:40 Calib Date: 15-May-2014 20:36:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000011.D
 Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK036

First Level Reviewer: phant Date: 16-May-2014 08:57:39

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
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10 2,4,6-Trinitrophenol

2	0.106	0.126	-0.020	109H	20.0	32.1	
1	0.106	0.126	-0.020	112H	20.0	33.8	

5 Nitrobenzene

1	22.666	22.596	0.070	486H	10.0	9.89	
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3 Ethylene glycol dinitrate

2	24.156	24.090	0.066	212H	10.0	9.90	
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24 1,3-Dinitrobenzene

1	25.859	25.773	0.086	1020H	10.0	10.6	
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27 1,3,5-Trinitrobenzene

1	28.636	28.570	0.066	791H	10.0	10.5	
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16 o-Nitrotoluene

1	29.776	29.713	0.063	658H	10.0	9.65	
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15 p-Nitrotoluene

1	29.776	29.713	0.063	658H	10.0	9.65	
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8 m-Nitrotoluene

1	30.393	30.330	0.063	422H	10.0	10.1	
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9 3,5-Dinitroaniline

1	32.119	32.056	0.063	839H	10.0	10.9	
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19 RDX

1	32.786	32.703	0.083	452H	10.0	9.67	
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23 2,4-Dinitrotoluene

1	33.606	33.556	0.050	834H	10.0	10.2	
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12 2,6-Dinitrotoluene

1	34.613	34.553	0.060	508H	10.0	10.3	
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6 2-Amino-4,6-dinitrotoluene

1	36.923	36.860	0.063	700H	10.0	10.0	
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26 4-Amino-2,6-dinitrotoluene

1	37.439	37.356	0.083	627H	10.0	10.4	
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Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000005.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
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\$ 30	3,4-Dinitrotoluene						
1	38.953	38.860	0.093	522H	10.0	11.0	
25	2,4,6-Trinitrotoluene						
1	41.046	40.976	0.070	794H	10.0	10.2	
11	HMX						
1	42.766	42.713	0.053	586H	10.0	10.4	
7	Nitroglycerin						
2	45.173	45.153	0.020	730H	10.0	9.07	M
20	Tetryl						
1	46.759	46.736	0.023	1196H	10.0	10.3	
21	PETN						
2	53.076	53.066	0.010	1122H	10.0	8.46	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000005.D

Injection Date: 15-May-2014 14:03:04

Instrument ID: LC12

Operator ID: TQP

Lims ID: STD02

Worklist Smp#: 5

Client ID:

Injection Vol: 500.0 ul

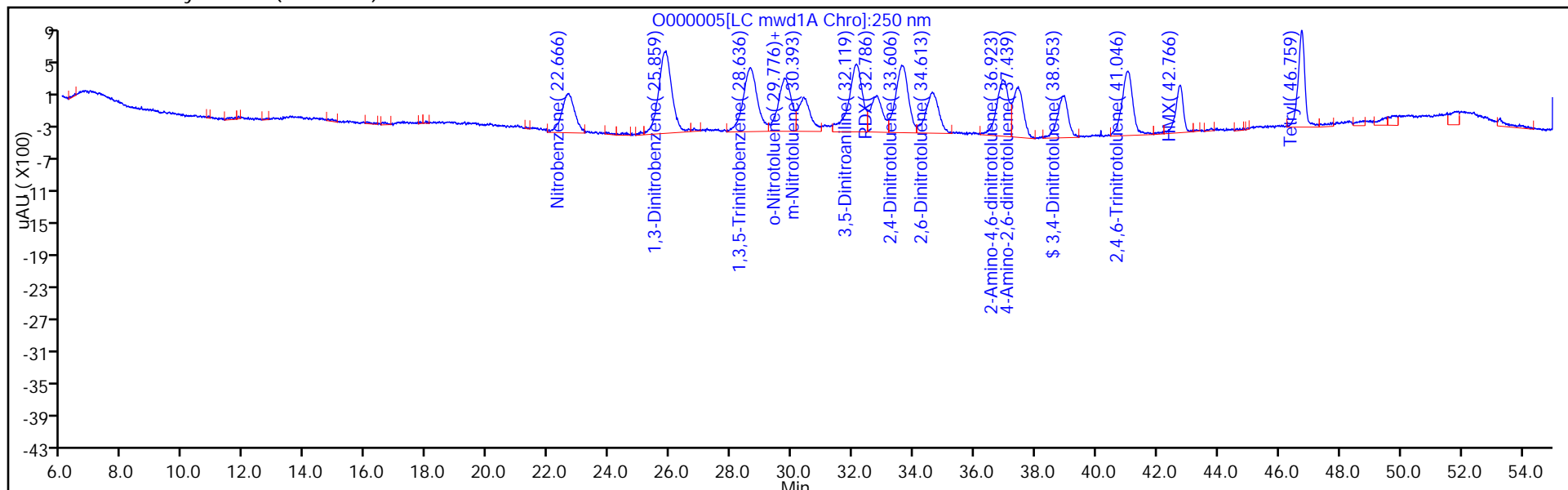
Dil. Factor: 1.0000

ALS Bottle#: 4

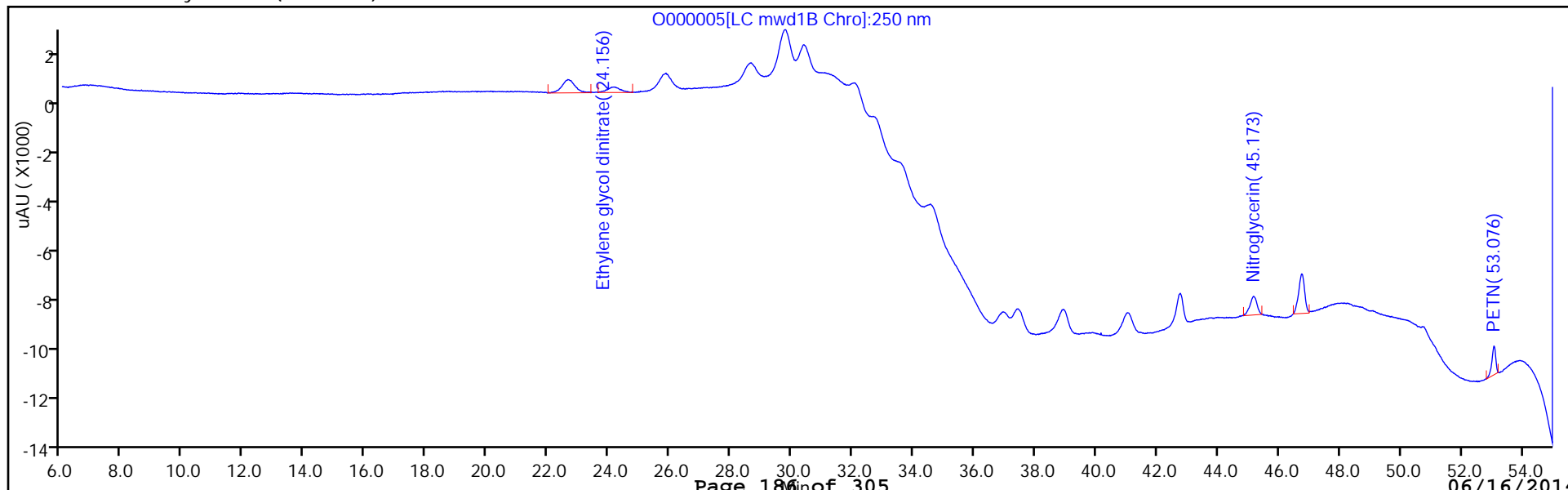
Method: LC12_Conf_8330

Limit Group: LC 8330A ICAL

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



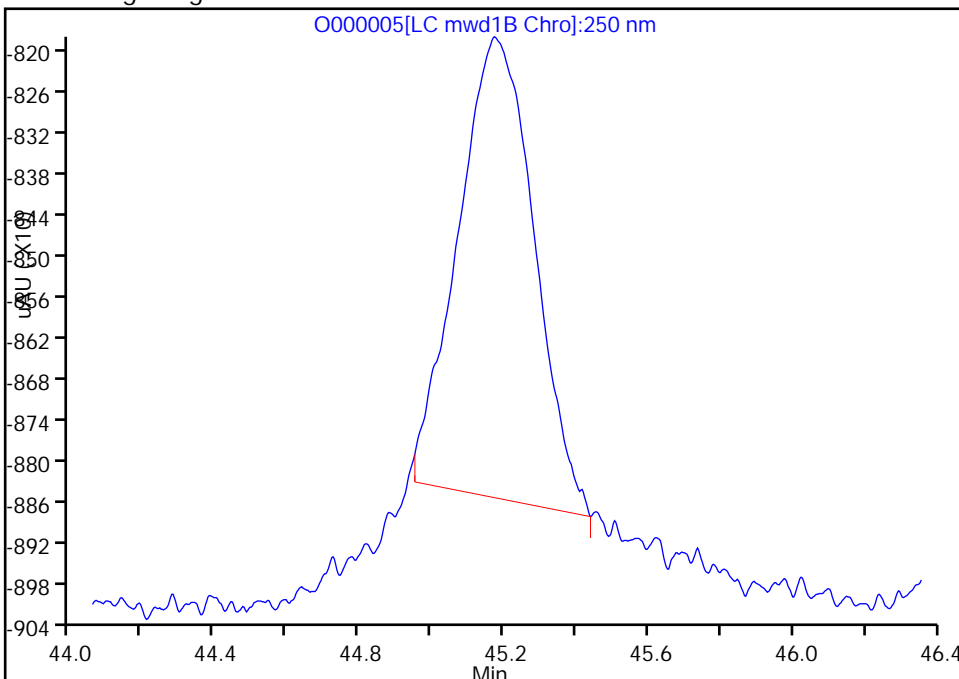
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000005.D
Injection Date: 15-May-2014 14:03:04 Instrument ID: LC12
Lims ID: STD02
Client ID:
Operator ID: TQP ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector: LC mwd1B, 358 nm

7 Nitroglycerin, CAS: 55-63-0

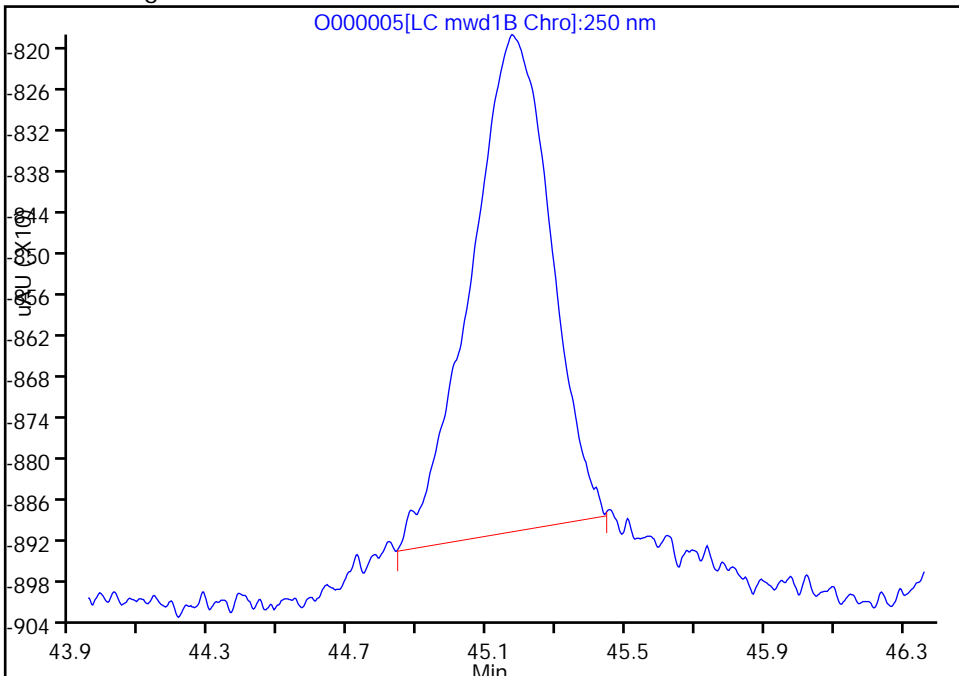
RT: 45.17
Response: 677
Amount: 8.478795

Processing Integration Results



RT: 45.17
Response: 730
Amount: 9.067337

Manual Integration Results



Reviewer: phant, 16-May-2014 09:18:04
Audit Action: Manually Integrated
Audit Reason: Baseline

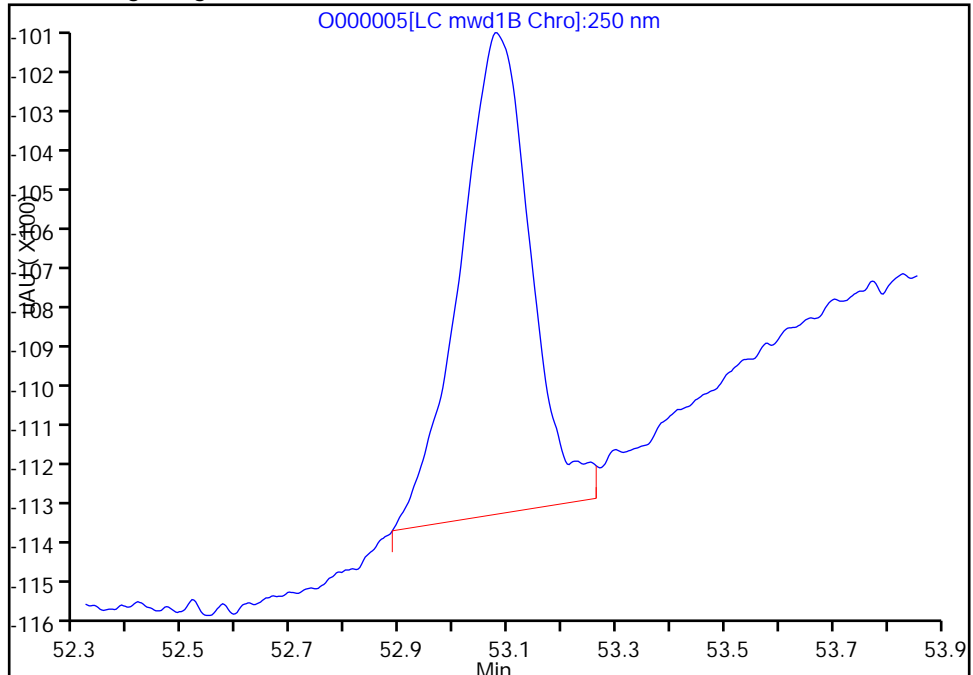
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000005.D
Injection Date: 15-May-2014 14:03:04 Instrument ID: LC12
Lims ID: STD02
Client ID:
Operator ID: TQP ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector: LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

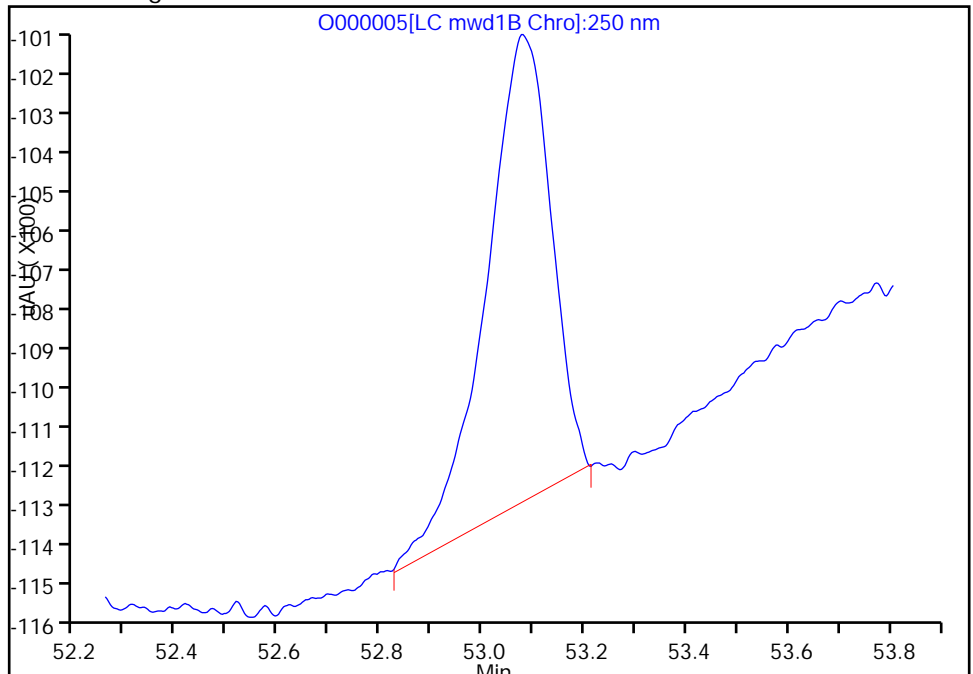
RT: 53.08
Response: 1154
Amount: 8.676488

Processing Integration Results



RT: 53.08
Response: 1122
Amount: 8.461339

Manual Integration Results



Reviewer: phant, 16-May-2014 09:18:04
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000006.D
 Lims ID: STD03
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 15-May-2014 15:08:36 ALS Bottle#: 5 Worklist Smp#: 6
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012486-006
 Operator ID: TQP Instrument ID: LC12
 Sublist: chrom-LC12_Conf_8330*sub1
 Method: \\SACChrom\ChromData\LC12\20140515-12486.b\LC12_Conf_8330.m
 Limit Group: LC 8330A ICAL
 Last Update: 16-May-2014 11:58:40 Calib Date: 15-May-2014 20:36:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000011.D
 Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK036

First Level Reviewer: phant Date: 16-May-2014 08:58:41

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
10 2,4,6-Trinitrophenol							
2	0.198	0.126	0.072	101H	50.0	29.7	
1	0.078	0.126	-0.048	98H	50.0	29.5	
5 Nitrobenzene							
1	22.621	22.596	0.025	953H	20.0	20.4	
3 Ethylene glycol dinitrate							
2	24.098	24.090	0.008	455H	20.0	21.2	
24 1,3-Dinitrobenzene							
1	25.815	25.773	0.042	2013H	20.0	20.9	
27 1,3,5-Trinitrobenzene							
1	28.628	28.570	0.058	1576H	20.0	20.9	
16 o-Nitrotoluene							
1	29.748	29.713	0.035	1307H	20.0	20.8	
15 p-Nitrotoluene							
1	29.748	29.713	0.035	1307H	20.0	20.8	
8 m-Nitrotoluene							
1	30.368	30.330	0.038	808H	20.0	21.4	
9 3,5-Dinitroaniline							
1	32.098	32.056	0.042	1639H	20.0	21.2	
19 RDX							
1	32.745	32.703	0.042	939H	20.0	21.9	
23 2,4-Dinitrotoluene							
1	33.595	33.556	0.039	1720H	20.0	21.1	
12 2,6-Dinitrotoluene							
1	34.595	34.553	0.042	1051H	20.0	21.4	
6 2-Amino-4,6-dinitrotoluene							
1	36.908	36.860	0.048	1439H	20.0	20.7	
26 4-Amino-2,6-dinitrotoluene							
1	37.401	37.356	0.045	1221H	20.0	20.2	

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000006.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

\$ 30	3,4-Dinitrotoluene						
1	38.901	38.860	0.041	969H	20.0	20.4	
25	2,4,6-Trinitrotoluene						
1	41.011	40.976	0.035	1566H	20.0	20.2	
11	HMX						
1	42.745	42.713	0.032	1132H	20.0	20.0	
7	Nitroglycerin						
2	45.175	45.153	0.022	1542H	20.0	19.2	
20	Tetryl						
1	46.758	46.736	0.022	2327H	20.0	20.1	
21	PETN						
2	53.081	53.066	0.015	2550H	20.0	19.2	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000006.D

Injection Date: 15-May-2014 15:08:36 Instrument ID: LC12

Lims ID: STD03

Operator ID: TQP

Worklist Smp#: 6

Client ID:

Injection Vol: 500.0 ul

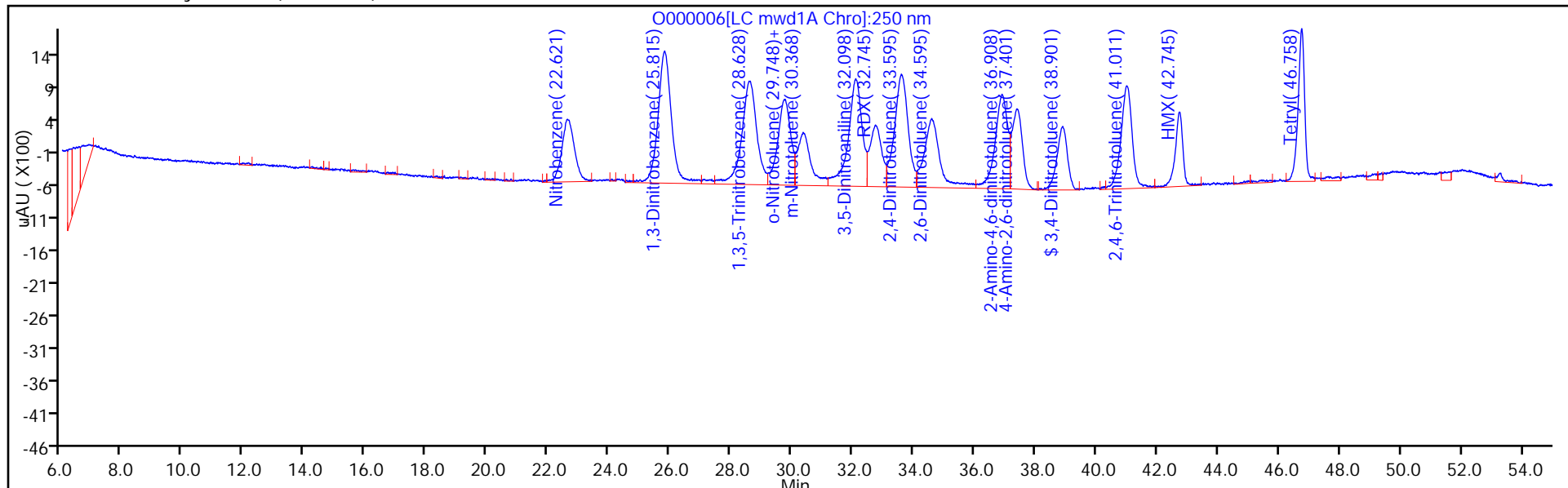
Dil. Factor: 1.0000

ALS Bottle#: 5

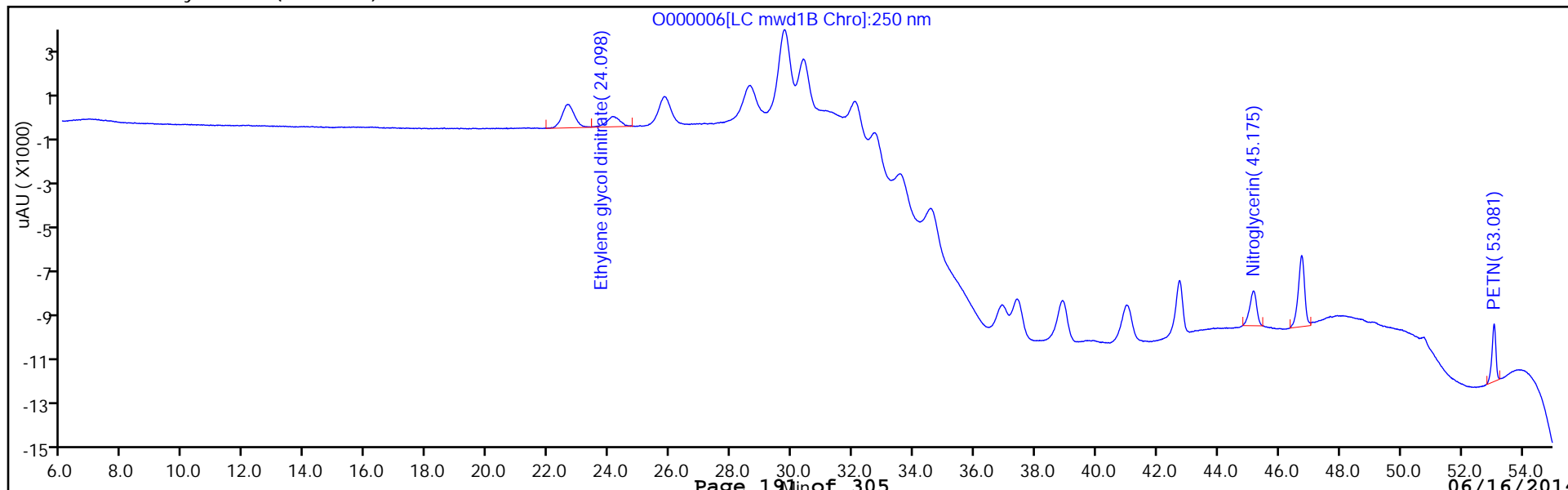
Method: LC12_Conf_8330

Limit Group: LC 8330A ICAL

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



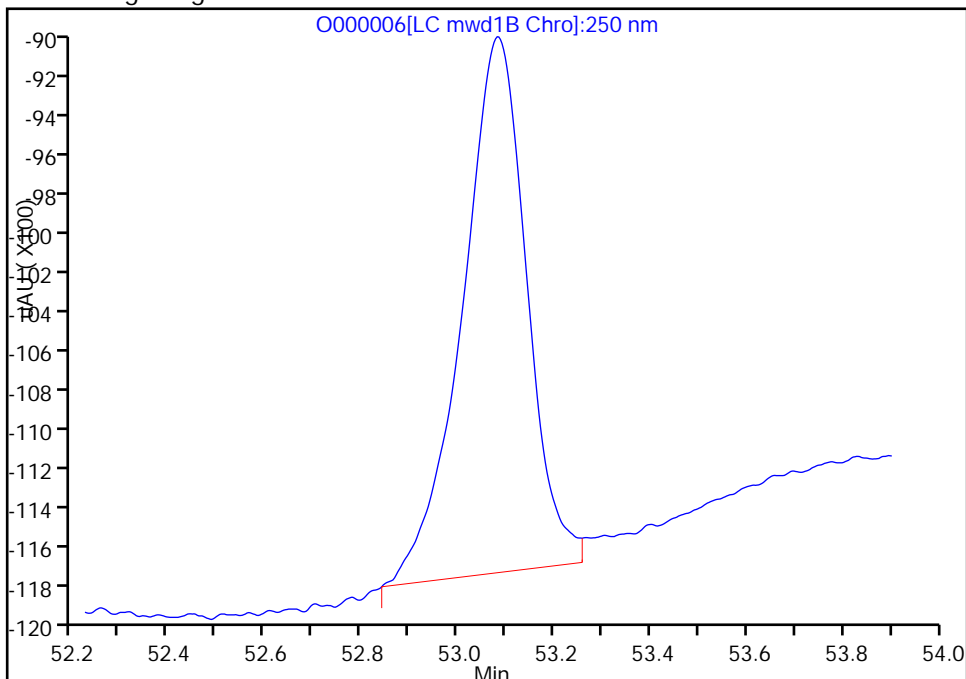
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000006.D
Injection Date: 15-May-2014 15:08:36 Instrument ID: LC12
Lims ID: STD03
Client ID:
Operator ID: TQP ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector: LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

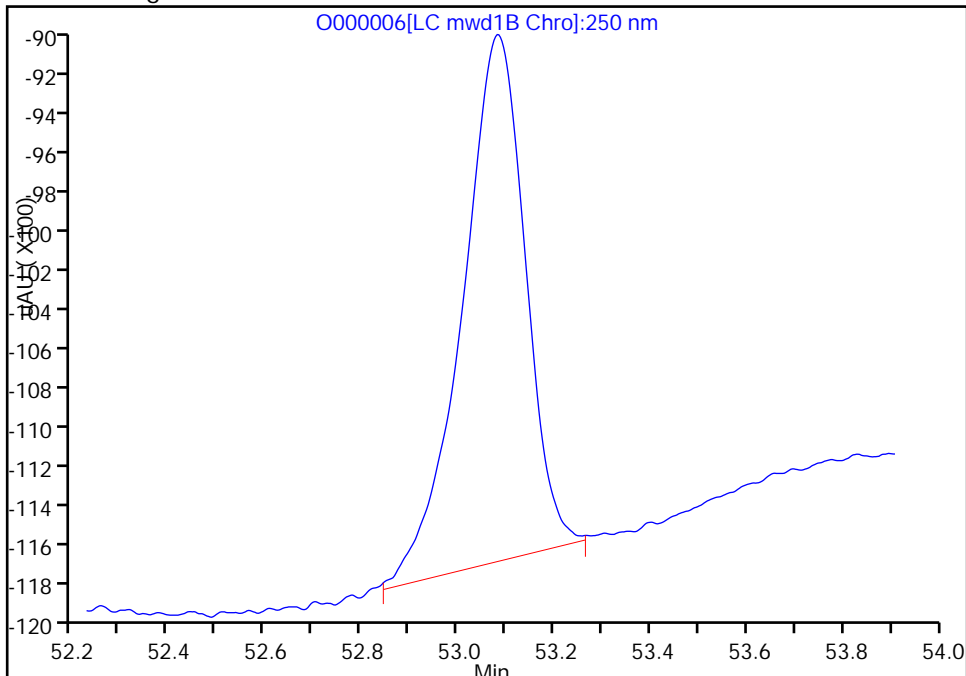
RT: 53.08
Response: 2594
Amount: 19.513755

Processing Integration Results



RT: 53.08
Response: 2550
Amount: 19.230316

Manual Integration Results



Reviewer: phant, 16-May-2014 08:58:41
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000007.D
 Lims ID: STD04
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 15-May-2014 16:14:11 ALS Bottle#: 6 Worklist Smp#: 7
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012486-007
 Operator ID: TQP Instrument ID: LC12
 Sublist: chrom-LC12_Conf_8330*sub1
 Method: \\SACChrom\ChromData\LC12\20140515-12486.b\LC12_Conf_8330.m
 Limit Group: LC 8330A ICAL
 Last Update: 16-May-2014 12:07:10 Calib Date: 15-May-2014 20:36:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000011.D
 Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK036

First Level Reviewer: phant Date: 16-May-2014 08:59:09

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
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10 2,4,6-Trinitrophenol

2	0.184	0.126	0.058	184H	100.0	54.2	
1	0.184	0.126	0.058	178H	100.0	53.6	

5 Nitrobenzene

1	22.621	22.596	0.025	2382H	50.0	52.5	
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3 Ethylene glycol dinitrate

2	24.098	24.090	0.008	1048H	50.0	48.9	
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24 1,3-Dinitrobenzene

1	25.791	25.773	0.018	4811H	50.0	50.1	
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27 1,3,5-Trinitrobenzene

1	28.601	28.570	0.031	3740H	50.0	49.7	
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16 o-Nitrotoluene

1	29.748	29.713	0.035	3098H	50.0	51.6	
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15 p-Nitrotoluene

1	29.748	29.713	0.035	3098H	50.0	51.6	
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8 m-Nitrotoluene

1	30.361	30.330	0.031	1827H	50.0	51.4	
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9 3,5-Dinitroaniline

1	32.098	32.056	0.042	3798H	50.0	49.2	
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19 RDX

1	32.721	32.703	0.018	2116H	50.0	51.6	
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23 2,4-Dinitrotoluene

1	33.588	33.556	0.032	4050H	50.0	49.7	
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12 2,6-Dinitrotoluene

1	34.584	34.553	0.031	2394H	50.0	48.7	
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6 2-Amino-4,6-dinitrotoluene

1	36.894	36.860	0.034	3512H	50.0	50.4	
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26 4-Amino-2,6-dinitrotoluene

1	37.384	37.356	0.028	3000H	50.0	49.7	
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Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

\$ 30	3,4-Dinitrotoluene						
1	38.881	38.860	0.021	2338H	50.0	49.2	
25	2,4,6-Trinitrotoluene						
1	41.011	40.976	0.035	3831H	50.0	49.3	
11	HMX						
1	42.731	42.713	0.018	2764H	50.0	48.9	
7	Nitroglycerin						
2	45.171	45.153	0.018	4106H	50.0	51.0	
20	Tetryl						
1	46.754	46.736	0.018	5669H	50.0	48.9	
21	PETN						
2	53.074	53.066	0.008	6739H	50.0	50.8	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000007.D

Injection Date: 15-May-2014 16:14:11

Instrument ID: LC12

Operator ID: TQP

Lims ID: STD04

Worklist Smp#: 7

Client ID:

Injection Vol: 500.0 ul

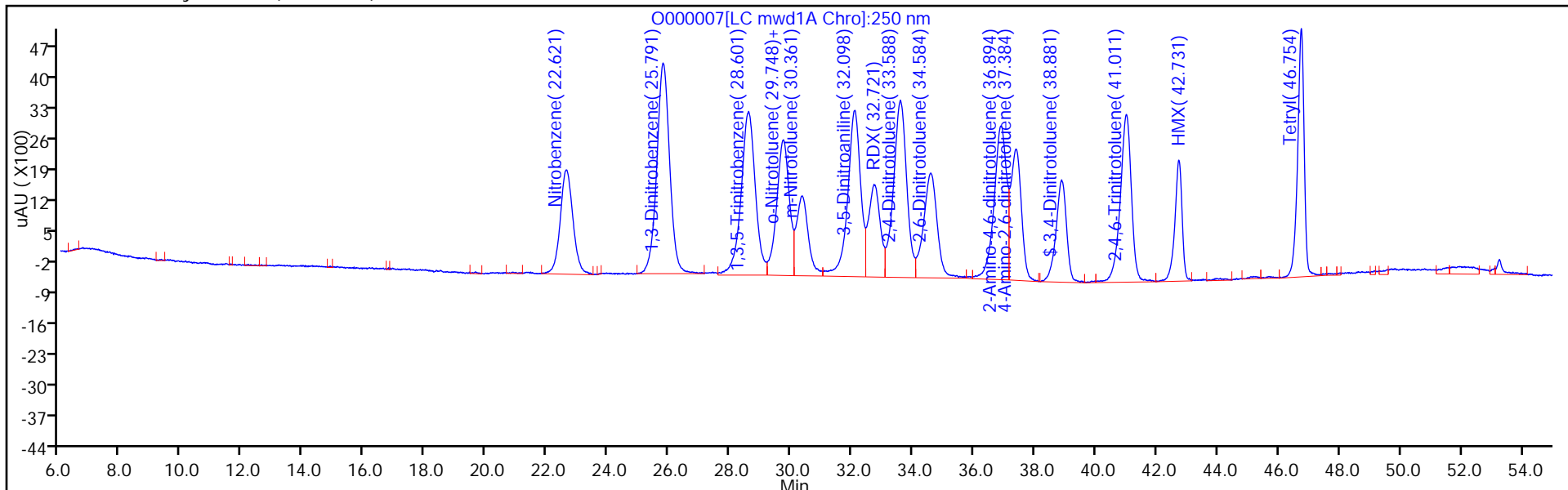
Dil. Factor: 1.0000

ALS Bottle#: 6

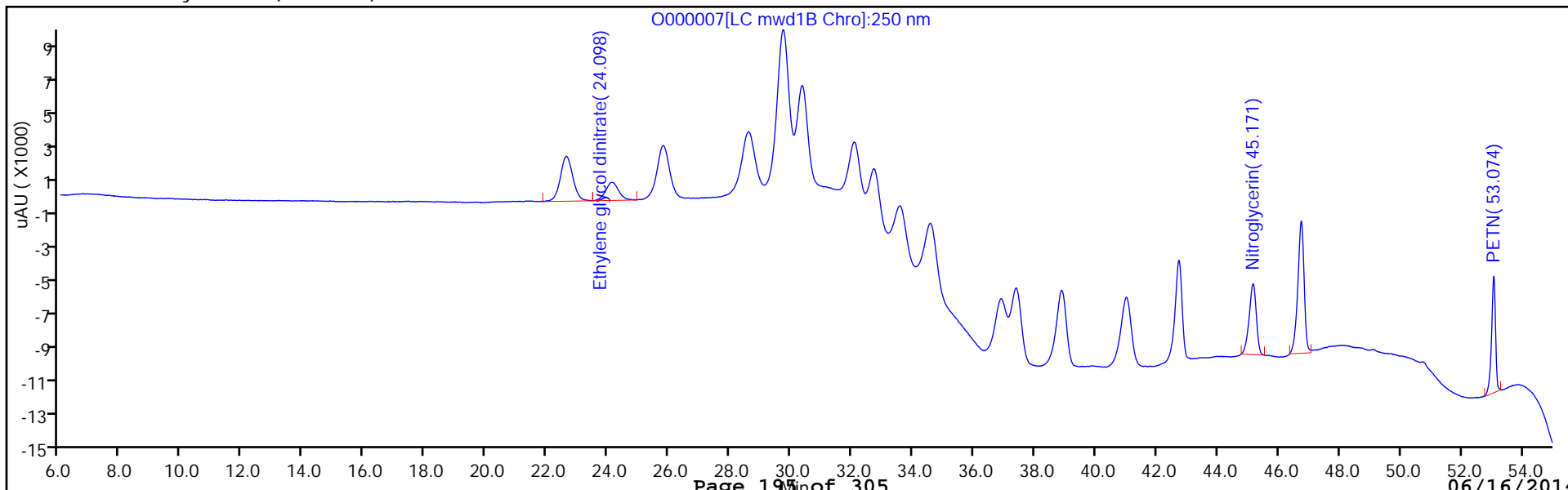
Method: LC12_Conf_8330

Limit Group: LC 8330A ICAL

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



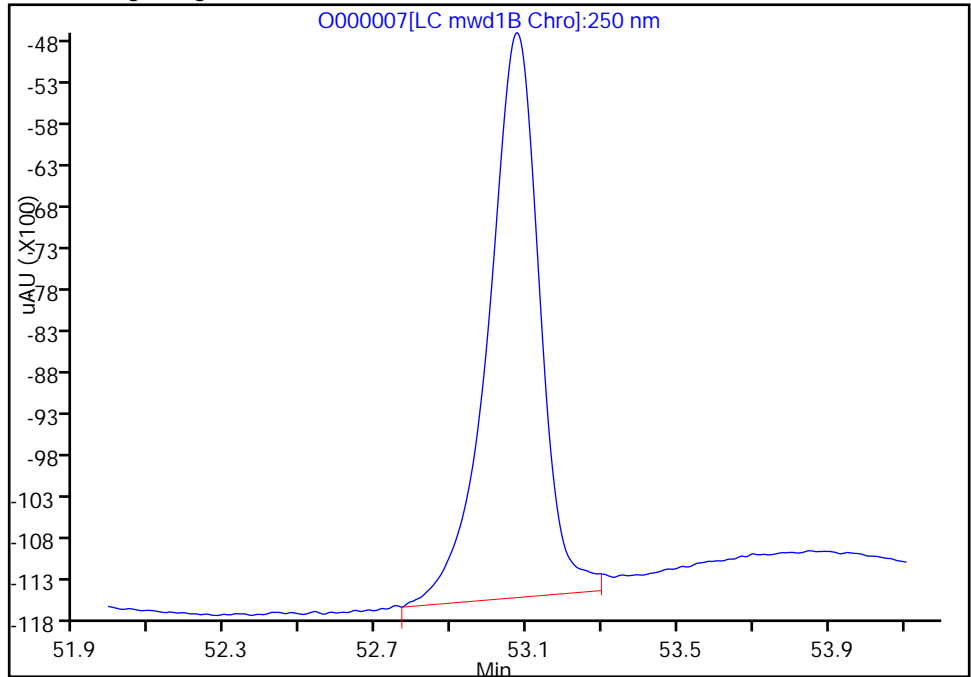
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000007.D
Injection Date: 15-May-2014 16:14:11 Instrument ID: LC12
Lims ID: STD04
Client ID:
Operator ID: TQP ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector: LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

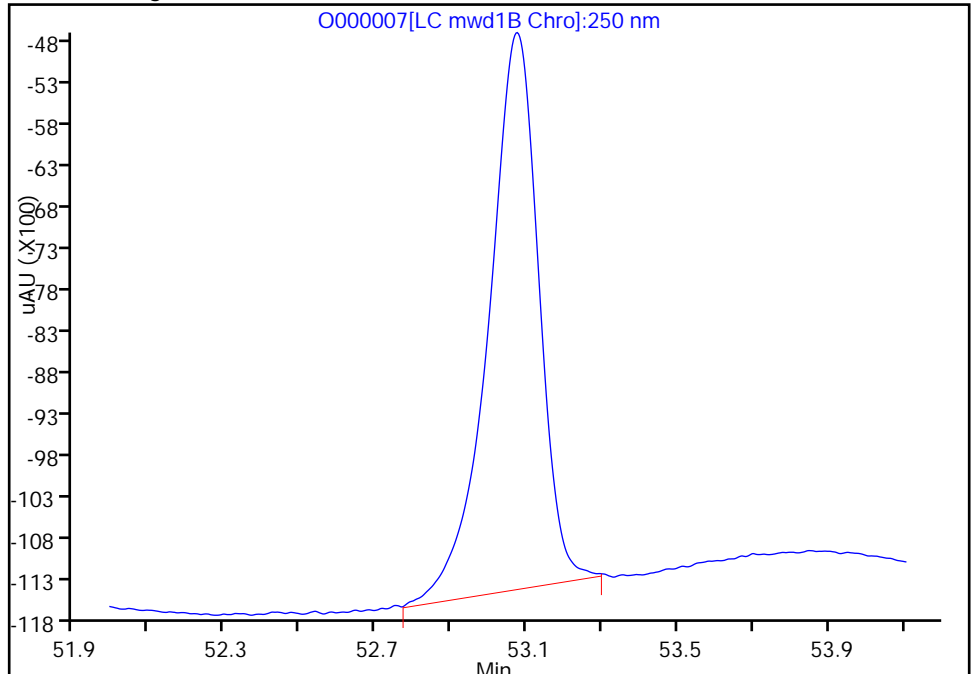
RT: 53.07
Response: 6834
Amount: 51.516365

Processing Integration Results



RT: 53.07
Response: 6739
Amount: 50.820823

Manual Integration Results



Reviewer: phant, 16-May-2014 08:59:09
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000008.D
 Lims ID: STD05
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 15-May-2014 17:19:50 ALS Bottle#: 7 Worklist Smp#: 8
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012486-008
 Operator ID: TQP Instrument ID: LC12
 Sublist: chrom-LC12_Conf_8330*sub1
 Method: \\SACChrom\ChromData\LC12\20140515-12486.b\LC12_Conf_8330.m
 Limit Group: LC 8330A ICAL
 Last Update: 16-May-2014 11:58:42 Calib Date: 15-May-2014 20:36:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000011.D
 Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK036

First Level Reviewer: phant Date: 16-May-2014 08:52:40

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
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10 2,4,6-Trinitrophenol

2	0.213	0.126	0.087	130H	200.0	38.3	
1	0.093	0.126	-0.033	106H	200.0	31.9	

5 Nitrobenzene

1	22.613	22.596	0.017	4926H	100.0	109.7	
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3 Ethylene glycol dinitrate

2	24.126	24.090	0.036	2167H	100.0	101.2	
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24 1,3-Dinitrobenzene

1	25.793	25.773	0.020	9934H	100.0	103.4	
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27 1,3,5-Trinitrobenzene

1	28.583	28.570	0.013	7602H	100.0	100.9	
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16 o-Nitrotoluene

1	29.733	29.713	0.020	6224H	100.0	105.4	
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15 p-Nitrotoluene

1	29.733	29.713	0.020	6224H	100.0	105.4	
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8 m-Nitrotoluene

1	30.346	30.330	0.016	3607H	100.0	103.8	
---	--------	--------	-------	-------	-------	-------	--

9 3,5-Dinitroaniline

1	32.083	32.056	0.027	7633H	100.0	98.8	
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19 RDX

1	32.729	32.703	0.026	4204H	100.0	104.2	
---	--------	--------	-------	-------	-------	-------	--

23 2,4-Dinitrotoluene

1	33.576	33.556	0.020	8213H	100.0	100.7	
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12 2,6-Dinitrotoluene

1	34.573	34.553	0.020	4878H	100.0	99.1	
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6 2-Amino-4,6-dinitrotoluene

1	36.879	36.860	0.019	7285H	100.0	104.6	
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26 4-Amino-2,6-dinitrotoluene

1	37.379	37.356	0.023	6178H	100.0	100.5	
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Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000008.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

\$ 30	3,4-Dinitrotoluene						
1	38.876	38.860	0.016	4718H	100.0	99.4	
25	2,4,6-Trinitrotoluene						
1	40.999	40.976	0.023	7822H	100.0	100.7	M
11	HMX						
1	42.723	42.713	0.010	5721H	100.0	101.2	
7	Nitroglycerin						
2	45.156	45.153	0.003	8241H	100.0	102.4	
20	Tetryl						
1	46.736	46.736	0.000	11699H	100.0	100.9	
21	PETN						
2	53.066	53.066	0.000	13656H	100.0	103.0	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000008.D

Injection Date: 15-May-2014 17:19:50

Instrument ID: LC12

Operator ID: TQP

Lims ID: STD05

Worklist Smp#: 8

Client ID:

Injection Vol: 500.0 ul

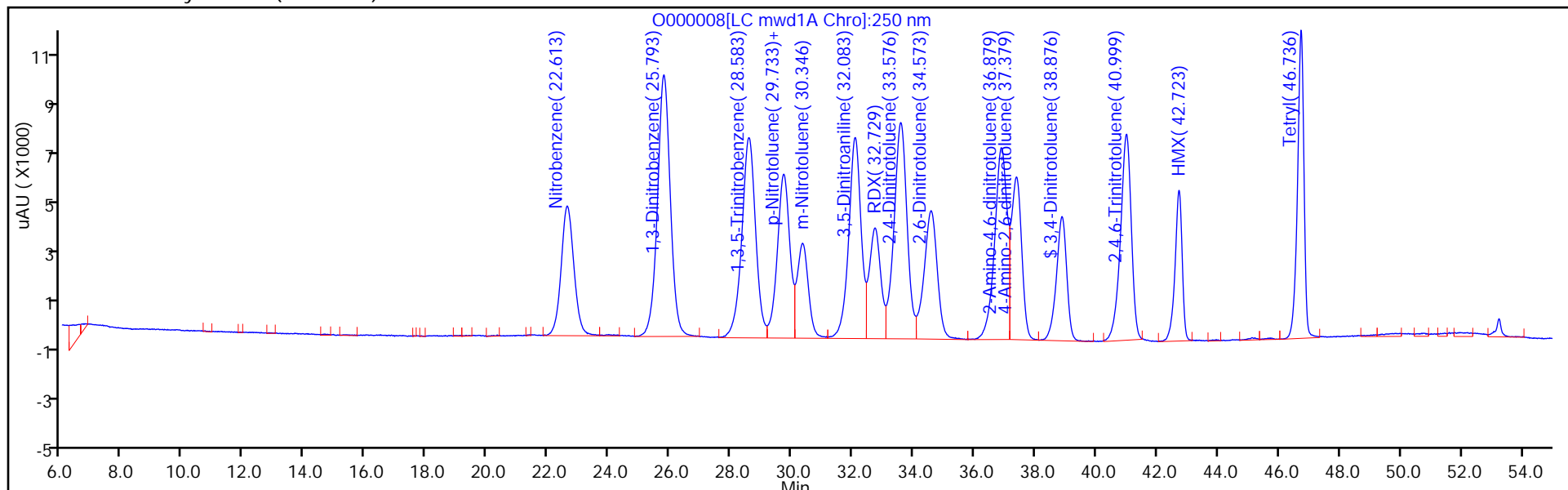
Dil. Factor: 1.0000

ALS Bottle#: 7

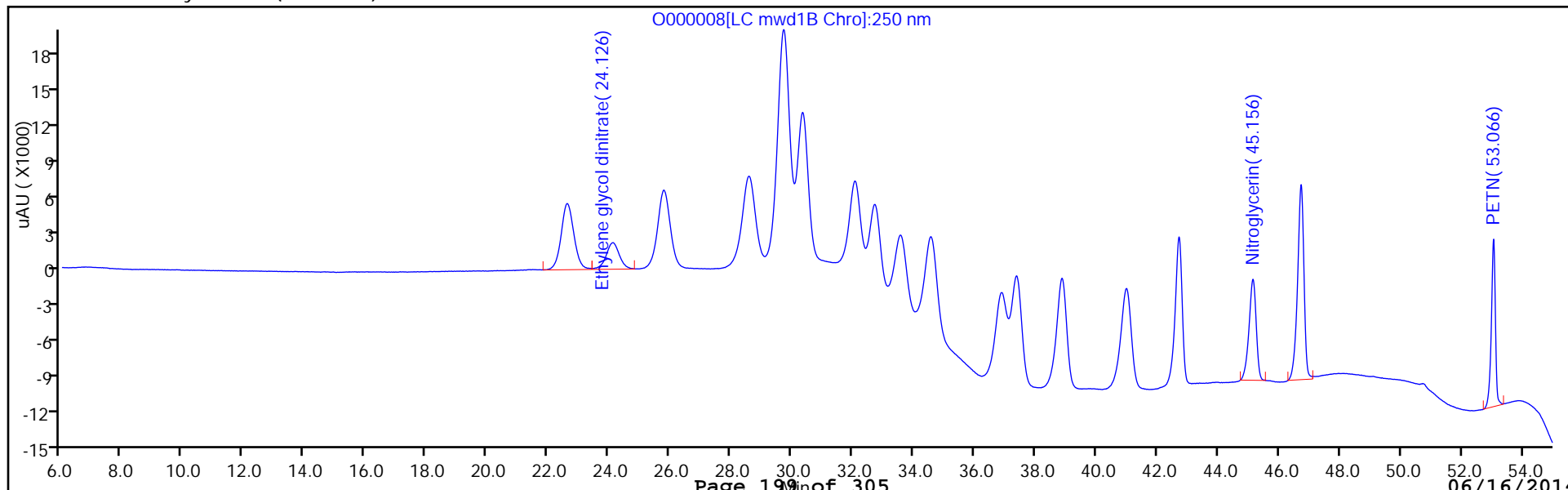
Method: LC12_Conf_8330

Limit Group: LC 8330A ICAL

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



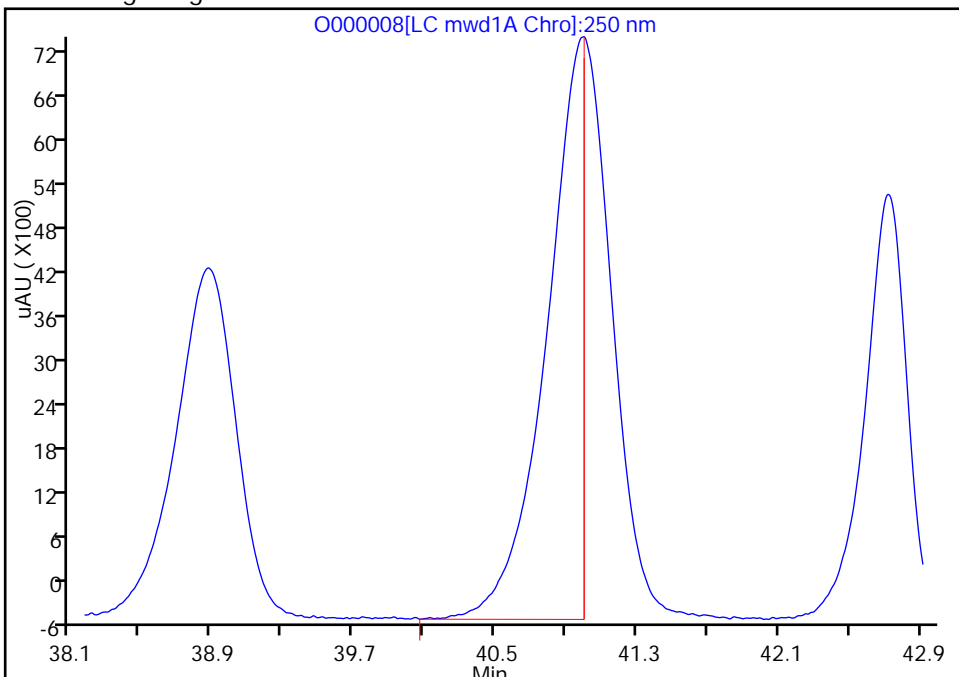
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000008.D
Injection Date: 15-May-2014 17:19:50 Instrument ID: LC12
Lims ID: STD05
Client ID:
Operator ID: TQP ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1A, 250 nm

25 2,4,6-Trinitrotoluene, CAS: 118-96-7

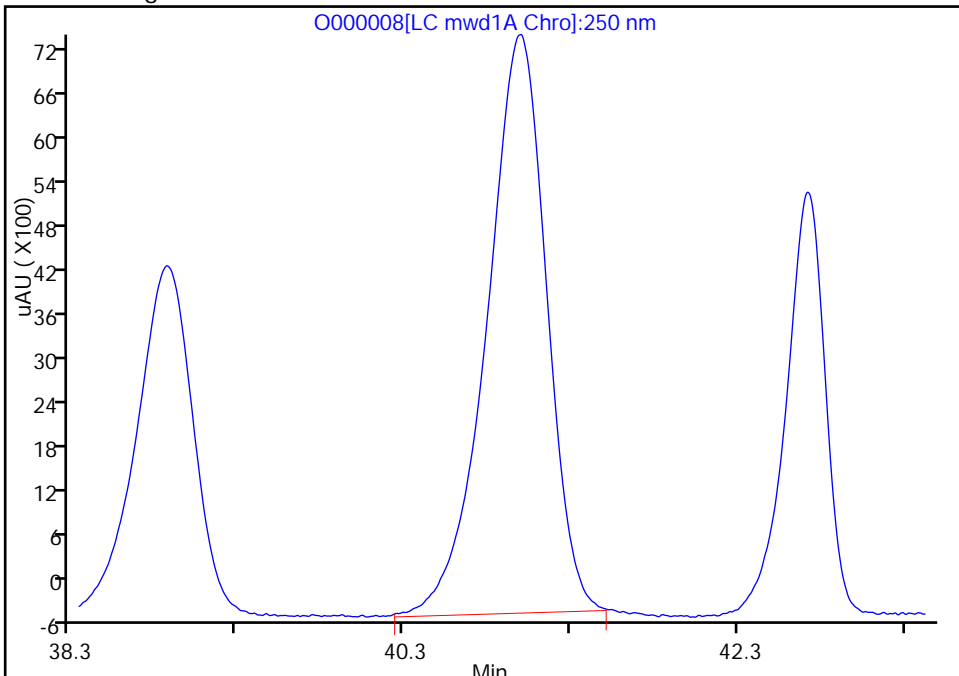
RT: 41.00
Response: 7878
Amount: 101.3639

Processing Integration Results



RT: 41.00
Response: 7822
Amount: 100.7341

Manual Integration Results



Reviewer: phant, 16-May-2014 08:52:40
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

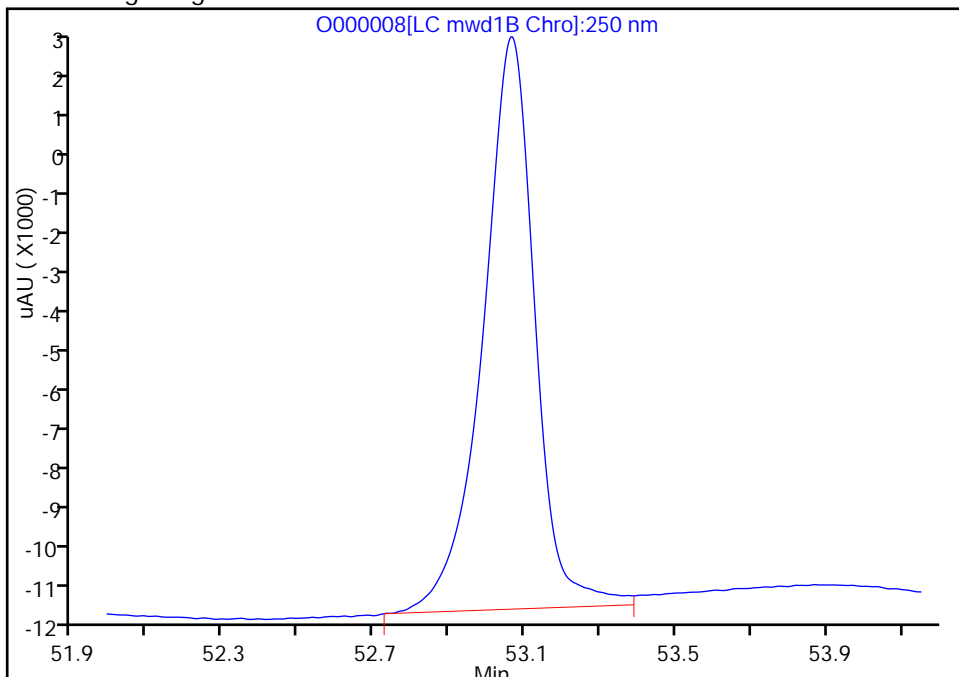
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000008.D
Injection Date: 15-May-2014 17:19:50 Instrument ID: LC12
Lims ID: STD05
Client ID:
Operator ID: TQP ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

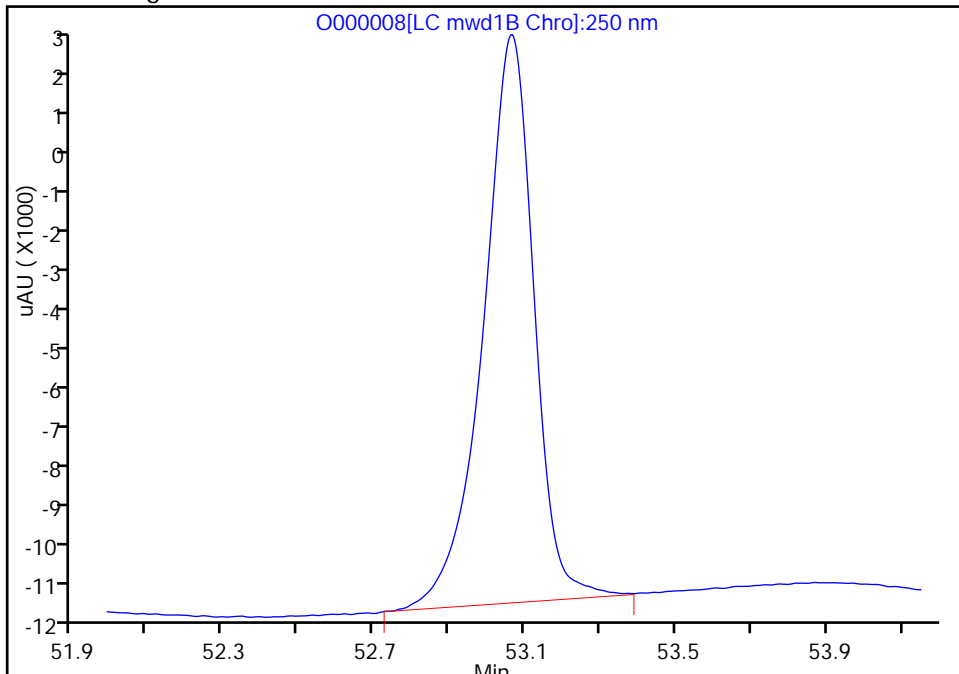
RT: 53.07
Response: 13754
Amount: 103.8670

Processing Integration Results



RT: 53.07
Response: 13656
Amount: 102.9840

Manual Integration Results



Reviewer: phant, 16-May-2014 08:59:45
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000009.D
 Lims ID: STD06
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 15-May-2014 18:25:28 ALS Bottle#: 8 Worklist Smp#: 9
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012486-009
 Operator ID: TQP Instrument ID: LC12
 Sublist: chrom-LC12_Conf_8330*sub1
 Method: \\SACChrom\ChromData\LC12\20140515-12486.b\LC12_Conf_8330.m
 Limit Group: LC 8330A ICAL
 Last Update: 16-May-2014 11:58:43 Calib Date: 15-May-2014 20:36:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000011.D
 Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK036

First Level Reviewer: phant Date: 16-May-2014 08:43:56

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
10 2,4,6-Trinitrophenol							
2	0.126	0.126	0.000	102H	500.0	30.0	
1	0.126	0.126	0.000	109H	500.0	32.8	
5 Nitrobenzene							
1	22.596	22.596	0.000	9535H	200.0	213.2	
3 Ethylene glycol dinitrate							
2	24.090	24.090	0.000	4228H	200.0	197.4	
24 1,3-Dinitrobenzene							
1	25.773	25.773	0.000	19484H	200.0	202.7	
27 1,3,5-Trinitrobenzene							
1	28.570	28.570	0.000	15126H	200.0	200.9	
16 o-Nitrotoluene							
1	29.713	29.713	0.000	12349H	200.0	210.8	
15 p-Nitrotoluene							
1	29.713	29.713	0.000	12349H	200.0	210.8	
8 m-Nitrotoluene							
1	30.330	30.330	0.000	7182H	200.0	208.9	
9 3,5-Dinitroaniline							
1	32.056	32.056	0.000	15129H	200.0	195.9	
19 RDX							
1	32.703	32.703	0.000	8332H	200.0	208.1	
23 2,4-Dinitrotoluene							
1	33.556	33.556	0.000	16318H	200.0	200.1	
12 2,6-Dinitrotoluene							
1	34.553	34.553	0.000	9698H	200.0	197.1	
6 2-Amino-4,6-dinitrotoluene							
1	36.860	36.860	0.000	14480H	200.0	207.8	
26 4-Amino-2,6-dinitrotoluene							
1	37.356	37.356	0.000	12266H	200.0	203.9	

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000009.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
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\$ 30	3,4-Dinitrotoluene						
1	38.860	38.860	0.000	9341H	200.0	196.7	
25	2,4,6-Trinitrotoluene						
1	40.976	40.976	0.000	15627H	200.0	201.2	
11	HMX						
1	42.713	42.713	0.000	11316H	200.0	200.1	
7	Nitroglycerin						
2	45.153	45.153	0.000	16380H	200.0	203.5	
20	Tetryl						
1	46.736	46.736	0.000	23275H	200.0	200.7	
21	PETN						
2	53.066	53.066	0.000	27372H	200.0	206.4	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000009.D

Injection Date: 15-May-2014 18:25:28

Instrument ID: LC12

Operator ID: TQP

Lims ID: STD06

Worklist Smp#: 9

Client ID:

Injection Vol: 500.0 ul

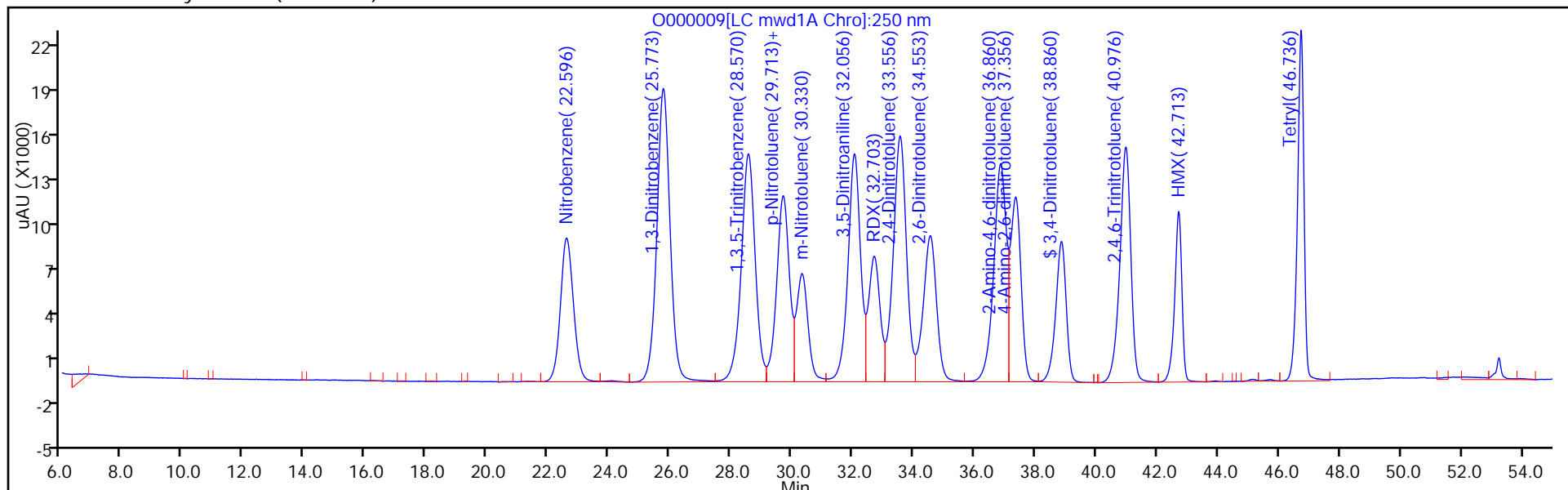
Dil. Factor: 1.0000

ALS Bottle#: 8

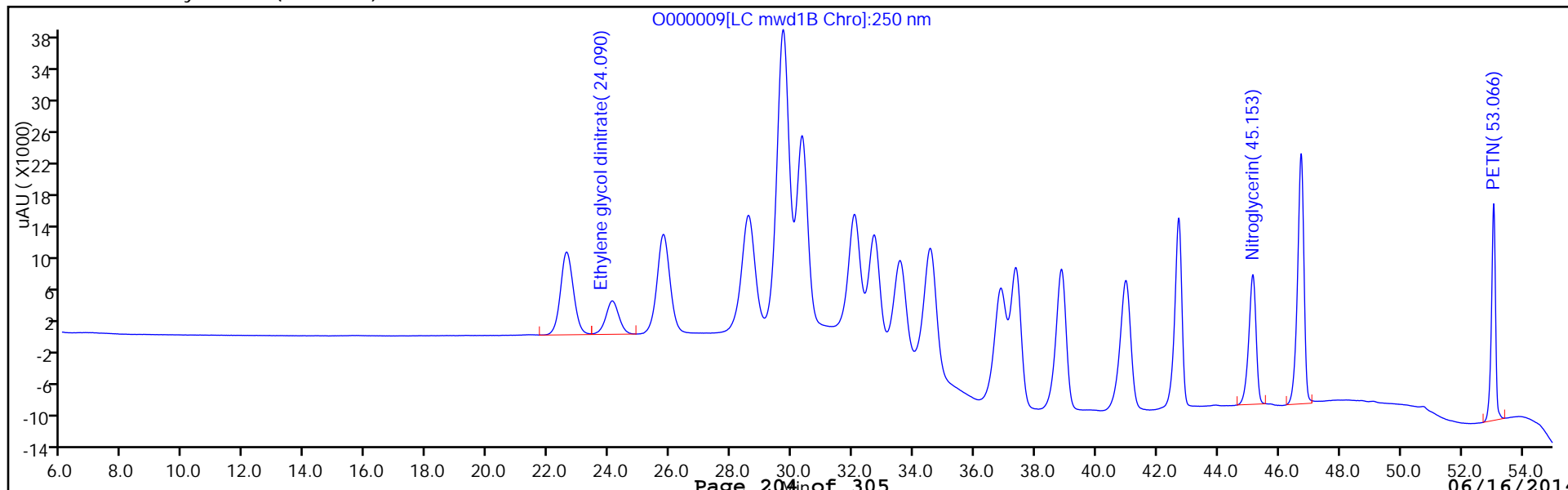
Method: LC12_Conf_8330

Limit Group: LC 8330A ICAL

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



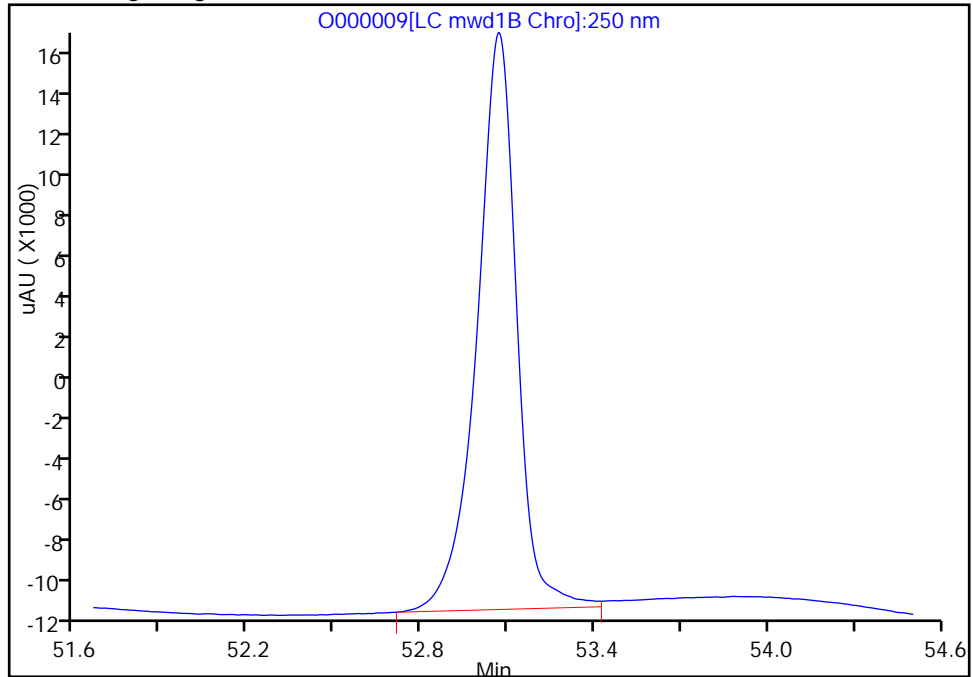
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000009.D
Injection Date: 15-May-2014 18:25:28 Instrument ID: LC12
Lims ID: STD06
Client ID:
Operator ID: TQP ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector: LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

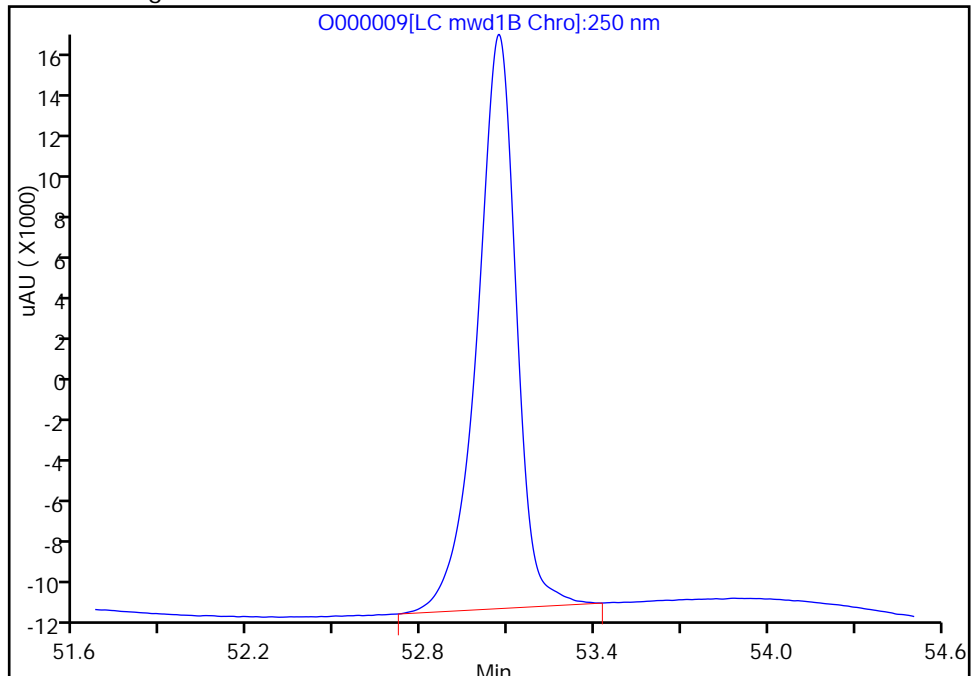
RT: 53.07
Response: 27498
Amount: 207.8507

Processing Integration Results



RT: 53.07
Response: 27372
Amount: 206.4205

Manual Integration Results



Reviewer: phant, 16-May-2014 09:00:14
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000010.D
 Lims ID: STD07
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 15-May-2014 19:30:58 ALS Bottle#: 9 Worklist Smp#: 10
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012486-010
 Operator ID: TQP Instrument ID: LC12
 Sublist: chrom-LC12_Conf_8330*sub1
 Method: \\SACChrom\ChromData\LC12\20140515-12486.b\LC12_Conf_8330.m
 Limit Group: LC 8330A ICAL
 Last Update: 16-May-2014 11:58:44 Calib Date: 15-May-2014 20:36:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000011.D
 Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK036

First Level Reviewer: phant Date: 16-May-2014 09:00:43

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
10 2,4,6-Trinitrophenol							
2	0.261	0.126	0.135	162H	1000.0	47.7	
1	0.091	0.126	-0.035	115H	1000.0	34.7	
5 Nitrobenzene							
1	22.555	22.596	-0.041	21420H	500.0	480.3	
3 Ethylene glycol dinitrate							
2	24.061	24.090	-0.029	10130H	500.0	473.0	
24 1,3-Dinitrobenzene							
1	25.741	25.773	-0.032	45045H	500.0	468.6	
27 1,3,5-Trinitrobenzene							
1	28.548	28.570	-0.022	35616H	500.0	472.9	
16 o-Nitrotoluene							
1	29.691	29.713	-0.022	28096H	500.0	481.7	
15 p-Nitrotoluene							
1	29.691	29.713	-0.022	28096H	500.0	481.7	
8 m-Nitrotoluene							
1	30.308	30.330	-0.022	16232H	500.0	475.2	
9 3,5-Dinitroaniline							
1	32.045	32.056	-0.011	35040H	500.0	453.7	
19 RDX							
1	32.695	32.703	-0.008	19119H	500.0	479.8	
23 2,4-Dinitrotoluene							
1	33.548	33.556	-0.008	38171H	500.0	468.0	
12 2,6-Dinitrotoluene							
1	34.545	34.553	-0.008	22584H	500.0	459.0	
6 2-Amino-4,6-dinitrotoluene							
1	36.868	36.860	0.008	34377H	500.0	493.4	
26 4-Amino-2,6-dinitrotoluene							
1	37.358	37.356	0.002	29251H	500.0	484.5	

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000010.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

\$ 30	3,4-Dinitrotoluene						
1	38.861	38.860	0.001	21948H	500.0	462.2	
25	2,4,6-Trinitrotoluene						
1	40.991	40.976	0.015	37747H	500.0	486.1	
11	HMX						
1	42.725	42.713	0.012	27328H	500.0	483.3	
7	Nitroglycerin						
2	45.161	45.153	0.008	40735H	500.0	506.0	
20	Tetryl						
1	46.745	46.736	0.009	56801H	500.0	489.7	
21	PETN						
2	53.071	53.066	0.005	68329H	500.0	515.3	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000010.D

Injection Date: 15-May-2014 19:30:58 Instrument ID: LC12

Lims ID: STD07

Operator ID: TQP

Worklist Smp#: 10

Client ID:

Injection Vol: 500.0 ul

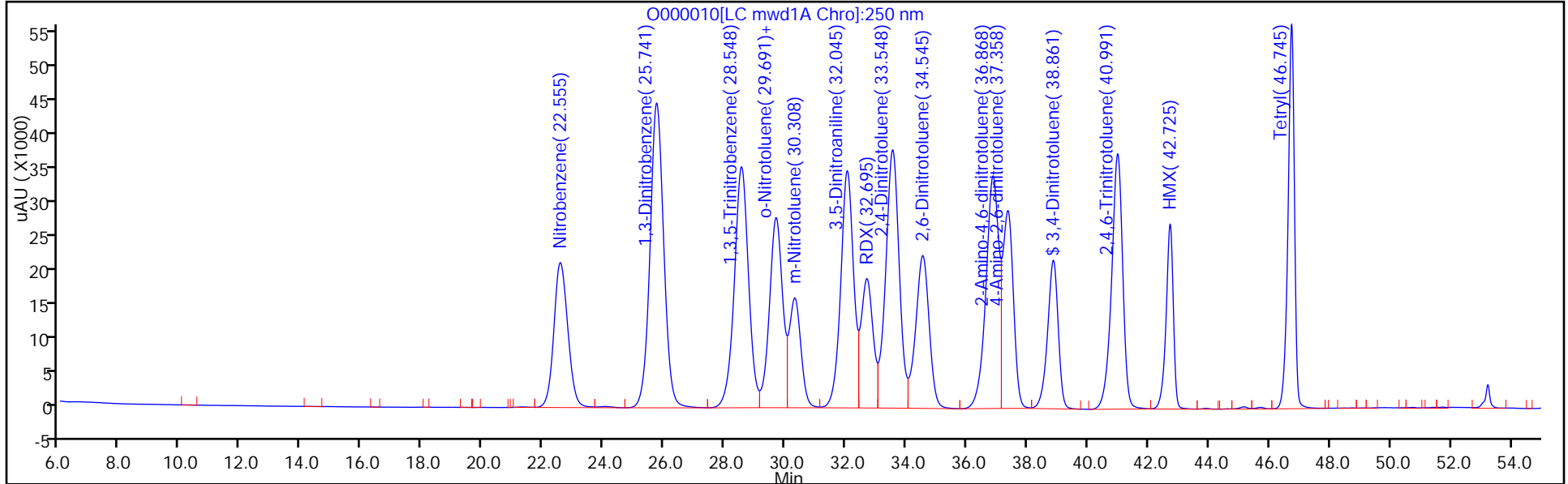
Dil. Factor: 1.0000

ALS Bottle#: 9

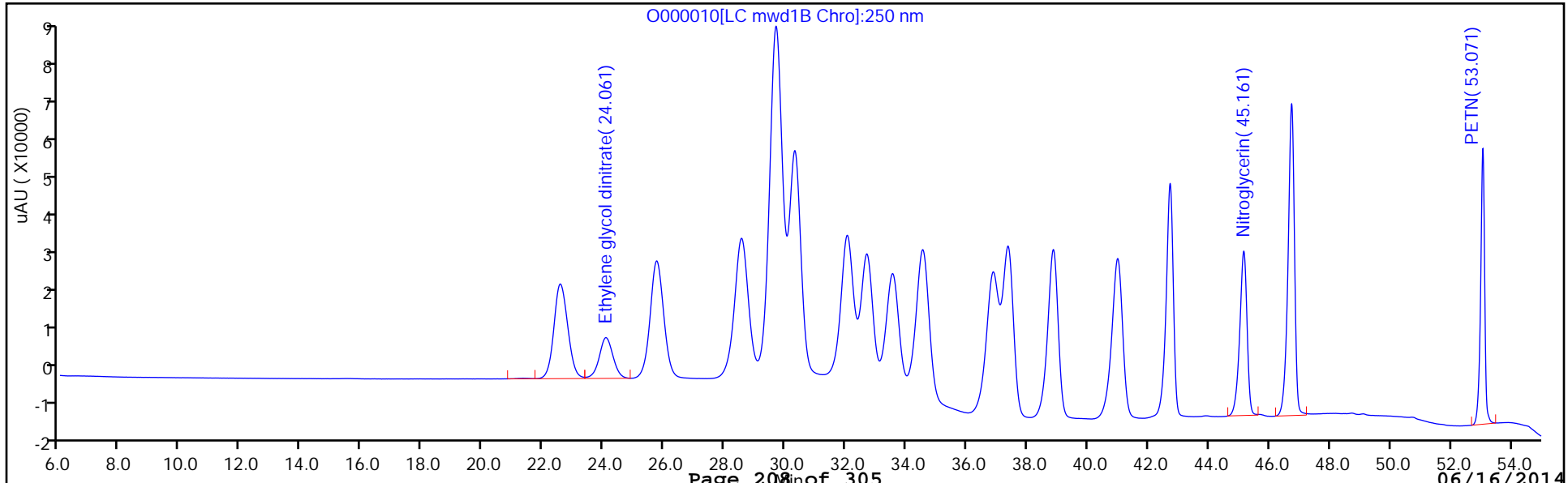
Method: LC12_Conf_8330

Limit Group: LC 8330A ICAL

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



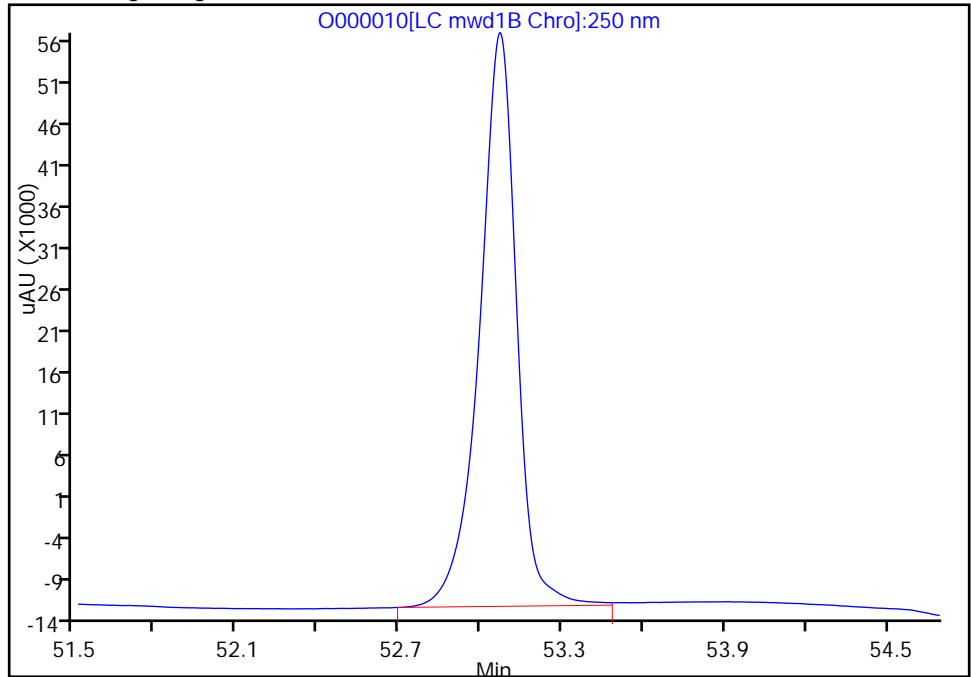
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000010.D
Injection Date: 15-May-2014 19:30:58 Instrument ID: LC12
Lims ID: STD07
Client ID:
Operator ID: TQP ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector: LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

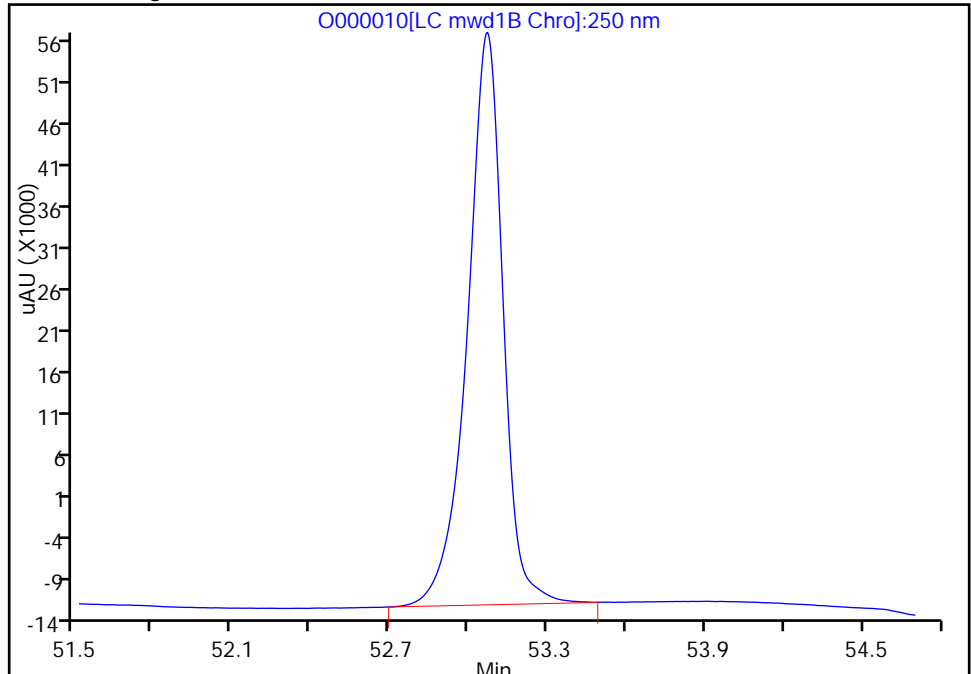
RT: 53.07
Response: 68456
Amount: 517.7505

Processing Integration Results



RT: 53.07
Response: 68329
Amount: 515.2895

Manual Integration Results



Reviewer: phant, 16-May-2014 09:00:43
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000011.D
 Lims ID: STD08
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 15-May-2014 20:36:33 ALS Bottle#: 10 Worklist Smp#: 11
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012486-011
 Operator ID: TQP Instrument ID: LC12
 Sublist: chrom-LC12_Conf_8330*sub1
 Method: \\SACChrom\ChromData\LC12\20140515-12486.b\LC12_Conf_8330.m
 Limit Group: LC 8330A ICAL
 Last Update: 16-May-2014 11:58:45 Calib Date: 15-May-2014 20:36:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000011.D
 Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK036

First Level Reviewer: phant Date: 16-May-2014 09:01:21

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
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10 2,4,6-Trinitrophenol

2	0.200	0.126	0.074	103H	2000.0	30.3	
1	0.130	0.126	0.004	88H	2000.0	26.5	

5 Nitrobenzene

1	22.466	22.596	-0.130	36866H	1000.0	827.4	
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3 Ethylene glycol dinitrate

2	24.003	24.090	-0.087	19546H	1000.0	912.7	
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24 1,3-Dinitrobenzene

1	25.673	25.773	-0.100	80033H	1000.0	832.6	
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27 1,3,5-Trinitrobenzene

1	28.500	28.570	-0.070	66679H	1000.0	885.4	
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16 o-Nitrotoluene

1	29.626	29.713	-0.087	51787H	1000.0	889.3	
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15 p-Nitrotoluene

1	29.626	29.713	-0.087	51787H	1000.0	889.3	
---	--------	--------	--------	--------	--------	-------	--

8 m-Nitrotoluene

1	30.223	30.330	-0.107	30208H	1000.0	886.3	
---	--------	--------	--------	--------	--------	-------	--

9 3,5-Dinitroaniline

1	31.986	32.056	-0.070	63737H	1000.0	825.3	
---	--------	--------	--------	--------	--------	-------	--

19 RDX

1	32.616	32.703	-0.087	34850H	1000.0	875.9	
---	--------	--------	--------	--------	--------	-------	--

23 2,4-Dinitrotoluene

1	33.483	33.556	-0.073	71226H	1000.0	873.3	
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12 2,6-Dinitrotoluene

1	34.476	34.553	-0.077	42370H	1000.0	861.1	
---	--------	--------	--------	--------	--------	-------	--

6 2-Amino-4,6-dinitrotoluene

1	36.816	36.860	-0.044	63989H	1000.0	918.4	
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26 4-Amino-2,6-dinitrotoluene

1	37.286	37.356	-0.070	55406H	1000.0	910.8	
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Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000011.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
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\$ 30	3,4-Dinitrotoluene						
1	38.810	38.860	-0.050	42317H	1000.0	891.1	
25	2,4,6-Trinitrotoluene						
1	40.950	40.976	-0.026	73431H	1000.0	945.7	
11	HMX						
1	42.690	42.713	-0.023	52803H	1000.0	933.9	
7	Nitroglycerin						
2	45.133	45.153	-0.020	83870H	1000.0	1041.8	
20	Tetryl						
1	46.723	46.736	-0.013	112998H	1000.0	974.2	
21	PETN						
2	53.066	53.066	0.000	144467H	1000.0	1089.5	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000011.D

Injection Date: 15-May-2014 20:36:33 Instrument ID: LC12

Lims ID: STD08

Operator ID: TQP

Worklist Smp#: 11

Client ID:

Injection Vol: 500.0 ul

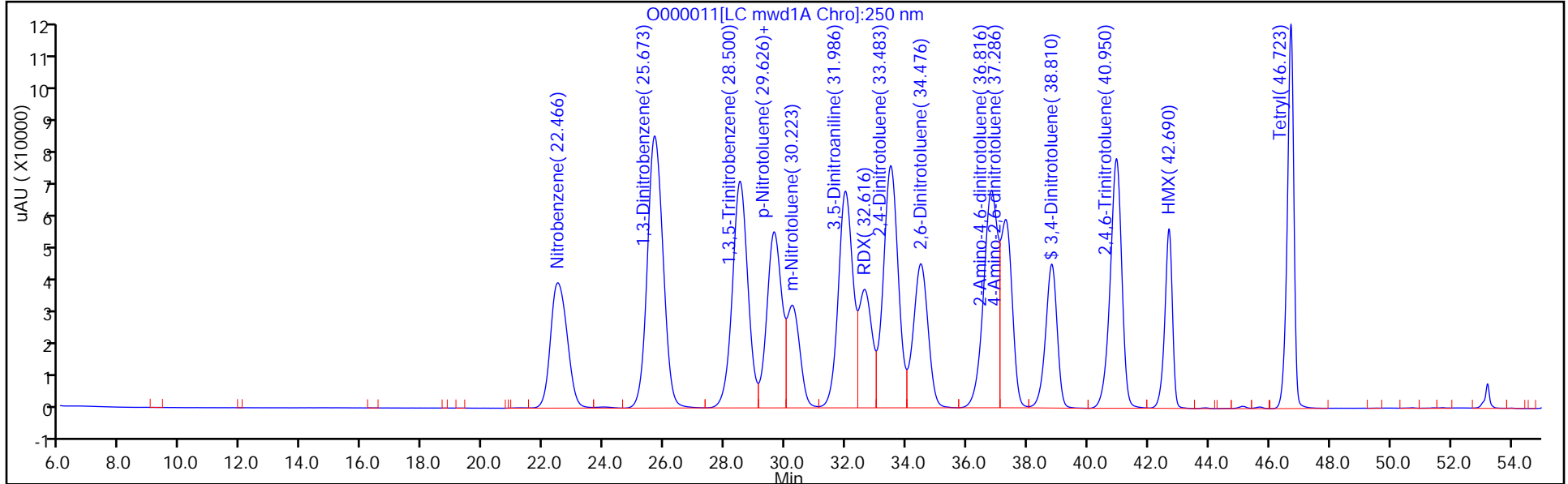
Dil. Factor: 1.0000

ALS Bottle#: 10

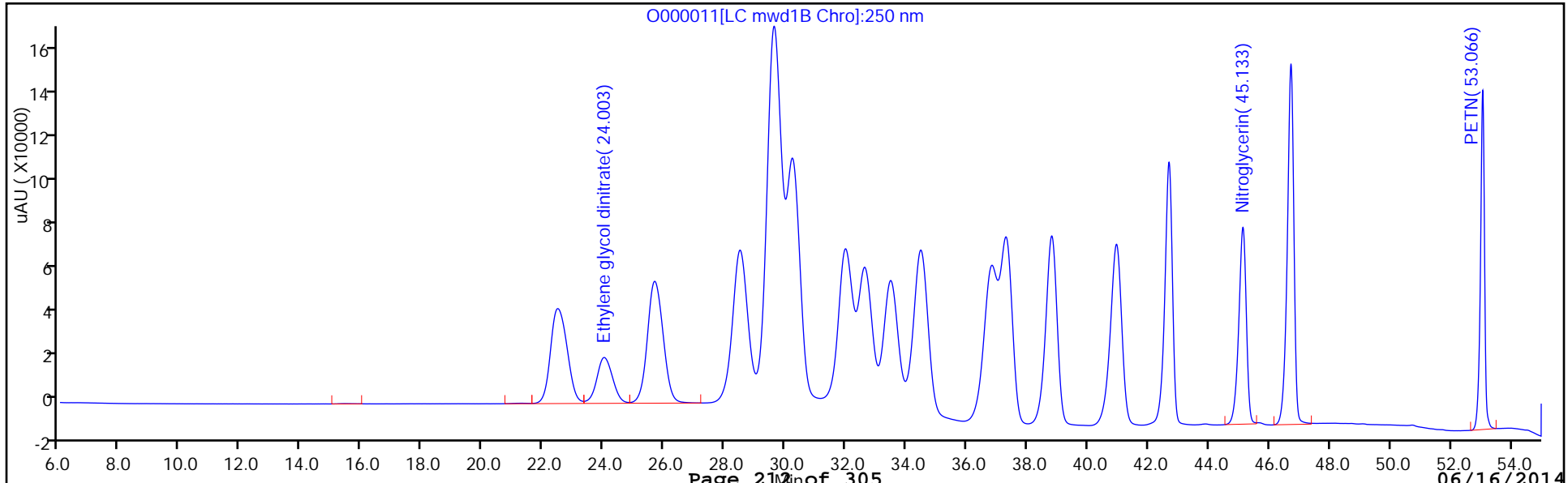
Method: LC12_Conf_8330

Limit Group: LC 8330A ICAL

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



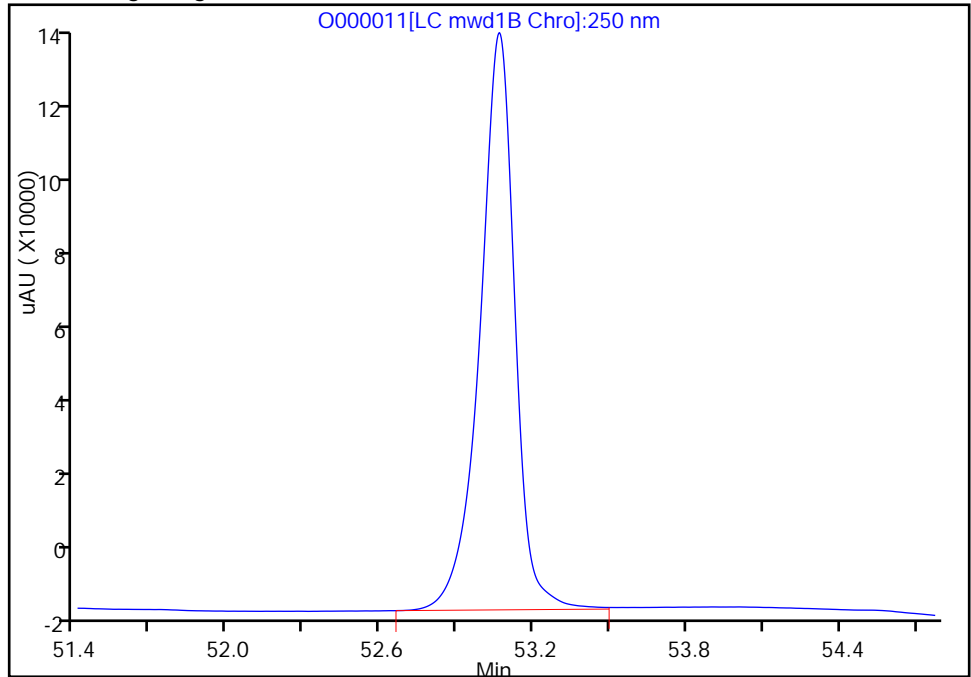
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000011.D
Injection Date: 15-May-2014 20:36:33 Instrument ID: LC12
Lims ID: STD08
Client ID:
Operator ID: TQP ALS Bottle#: 10 Worklist Smp#: 11
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

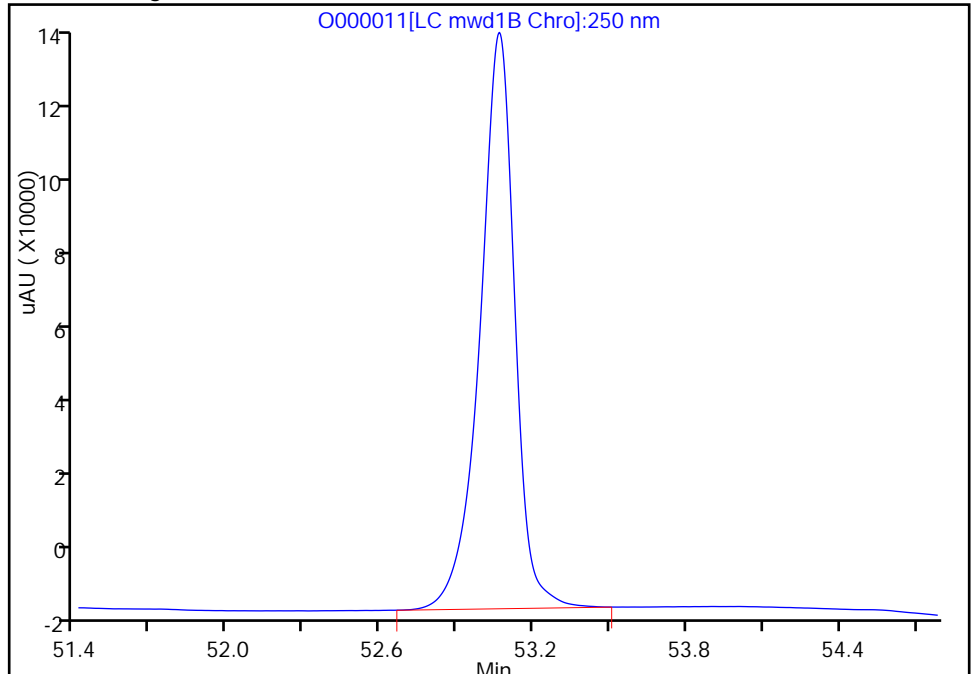
RT: 53.07
Response: 144633
Amount: 1094.1597

Processing Integration Results



RT: 53.07
Response: 144467
Amount: 1089.4690

Manual Integration Results



Reviewer: phant, 16-May-2014 09:01:21
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: ICV 320-43369/13 Calibration Date: 05/29/2014 22:39
 Instrument ID: LC11 Calib Start Date: 05/29/2014 14:10
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 05/30/2014 05:16
 Lab File ID: ZC000013.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	91.33	88.93		487	500	-2.6	15.0
RDX	Ave	90.42	87.77		485	500	-2.9	15.0
1,3,5-Trinitrobenzene	Ave	218.7	196.1		448	500	-10.3	15.0
Picric acid	Ave	171.1	147.4		861	1000	-13.9	15.0
1,3-Dinitrobenzene	Ave	222.9	211.0		473	500	-5.3	15.0
3,5-Dinitroaniline	Ave	152.5	135.5		444	500	-11.1	15.0
Nitrobenzene	Ave	100.9	93.72		464	500	-7.1	15.0
Tetryl	Ave	127.2	121.1		476	500	-4.8	15.0
Nitroglycerin	Ave	94.70	94.22		497	500	-0.5	15.0
2,4,6-Trinitrotoluene	Ave	130.7	124.2		475	500	-5.0	15.0
4-Amino-2,6-dinitrotoluene	Ave	103.5	98.27		475	500	-5.0	15.0
2-Amino-4,6-dinitrotoluene	Ave	120.5	111.8		464	500	-7.2	15.0
2,6-Dinitrotoluene	Ave	80.98	76.76		474	500	-5.2	15.0
2,4-Dinitrotoluene	Ave	135.7	127.6		470	500	-6.0	15.0
2-Nitrotoluene	Ave	59.42	52.29		440	500	-12.0	15.0
4-Nitrotoluene	Ave	72.60	63.90		440	500	-12.0	15.0
3-Nitrotoluene	Ave	66.98	62.76		468	500	-6.3	15.0
PETN	Ave	53.59	46.23		431	500	-13.7	15.0
Ethylene glycol dinitrate	None					500	-100.0*	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: ICV 320-43369/13 Calibration Date: 05/29/2014 22:39
 Instrument ID: LC11 Calib Start Date: 05/29/2014 14:10
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 05/30/2014 05:16
 Lab File ID: ZC000013.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	20.59	20.34	20.84
RDX	23.83	23.58	24.08
1,3,5-Trinitrobenzene	25.75	25.51	26.01
Picric acid	26.06	25.85	26.35
1,3-Dinitrobenzene	28.37	28.12	28.62
3,5-Dinitroaniline	29.49	29.24	29.74
Nitrobenzene	29.87	29.63	30.13
Tetryl	30.33	30.08	30.58
Nitroglycerin	30.77	30.53	31.03
2,4,6-Trinitrotoluene	31.48	31.23	31.73
4-Amino-2,6-dinitrotoluene	32.36	32.11	32.61
2-Amino-4,6-dinitrotoluene	32.99	32.74	33.24
2,6-Dinitrotoluene	34.14	33.90	34.40
2,4-Dinitrotoluene	34.49	34.24	34.74
2-Nitrotoluene	37.21	36.97	37.47
4-Nitrotoluene	38.41	38.16	38.66
3-Nitrotoluene	39.85	39.61	40.11
PETN	40.94	40.69	41.19
Ethylene glycol dinitrate			

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000013.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 29-May-2014 22:39:59 ALS Bottle#: 12 Worklist Smp#: 13
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012781-013
 Operator ID: TQP Instrument ID: LC11
 Sublist:
 Method: \\SACChrom\ChromData\LC11\20140529-12781.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 30-May-2014 13:33:04 Calib Date: 29-May-2014 20:46:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000011.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK026

First Level Reviewer: phant Date: 30-May-2014 10:32:36

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	20.591	20.585	0.006	44465H	500.0	486.9	
19 RDX							
1	23.827	23.828	-0.001	43886H	500.0	485.3	
27 1,3,5-Trinitrobenzene							
1	25.754	25.755	-0.001	98029H	500.0	448.3	
10 2,4,6-Trinitrophenol							
2	26.061	26.095	-0.034	147386H	1000.0	861.4	
1	26.061	26.095	-0.034	101718H	1000.0	852.5	
24 1,3-Dinitrobenzene							
1	28.371	28.371	0.000	105492H	500.0	473.3	
9 3,5-Dinitroaniline							
1	29.487	29.488	-0.001	67737H	500.0	444.3	
5 Nitrobenzene							
1	29.871	29.875	-0.004	46862H	500.0	464.3	
20 Tetryl							
1	30.334	30.331	0.003	60529H	500.0	476.0	
7 Nitroglycerin							
2	30.774	30.775	-0.001	47108H	500.0	497.4	
25 2,4,6-Trinitrotoluene							
1	31.481	31.481	0.000	62097H	500.0	475.1	
26 4-Amino-2,6-dinitrotoluene							
1	32.361	32.361	0.000	49137H	500.0	474.9	
6 2-Amino-4,6-dinitrotoluene							
1	32.987	32.985	0.002	55884H	500.0	463.9	
12 2,6-Dinitrotoluene							
1	34.144	34.145	-0.001	38379H	500.0	473.9	
23 2,4-Dinitrotoluene							
1	34.491	34.491	0.000	63806H	500.0	470.5	

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000013.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
16 o-Nitrotoluene							
1	37.214	37.215	-0.001	26145H	500.0	440.0	
15 p-Nitrotoluene							
1	38.407	38.408	-0.001	31949H	500.0	440.1	
8 m-Nitrotoluene							
1	39.854	39.858	-0.004	31378H	500.0	468.5	
21 PETN							
2	40.937	40.938	-0.001	23114H	500.0	431.3	M

QC Flag Legend

Review Flags

M - Manually Integrated

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000013.D

Injection Date: 29-May-2014 22:39:59

Instrument ID: LC11

Operator ID: TQP

Lims ID: ICV

Worklist Smp#: 13

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

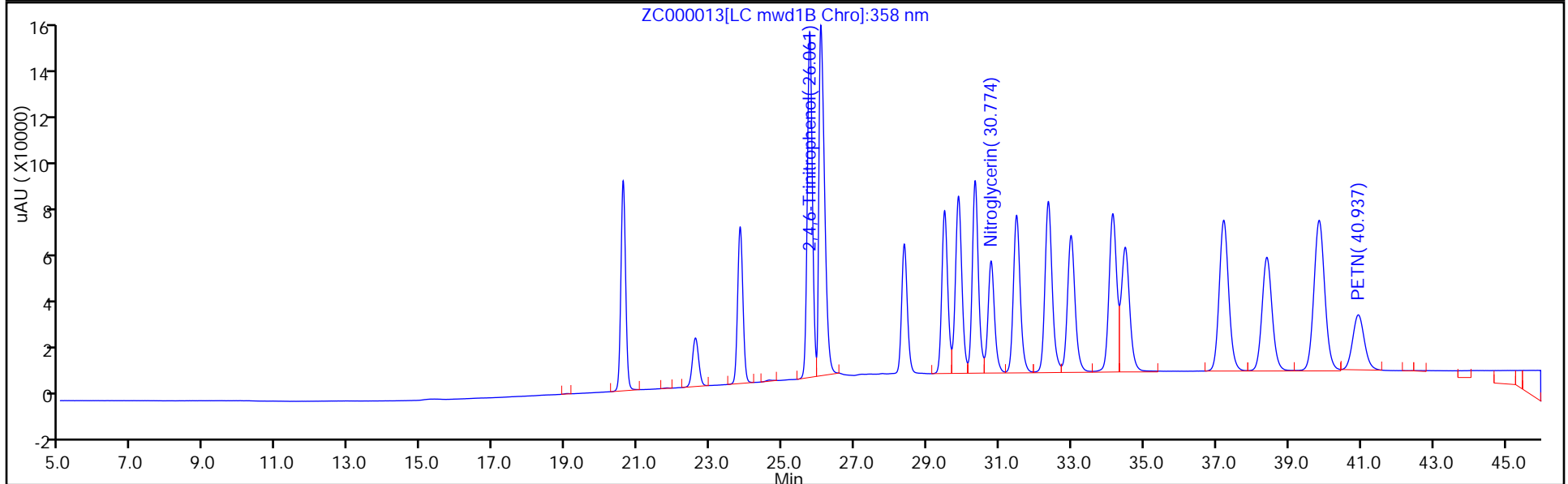
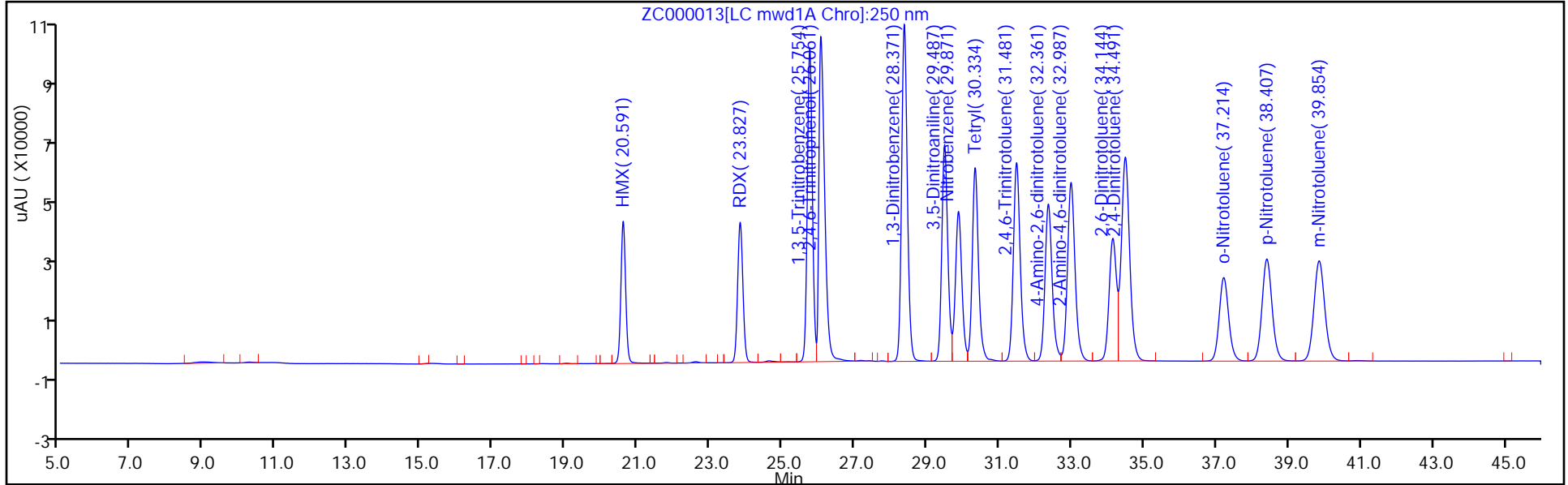
ALS Bottle#: 12

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



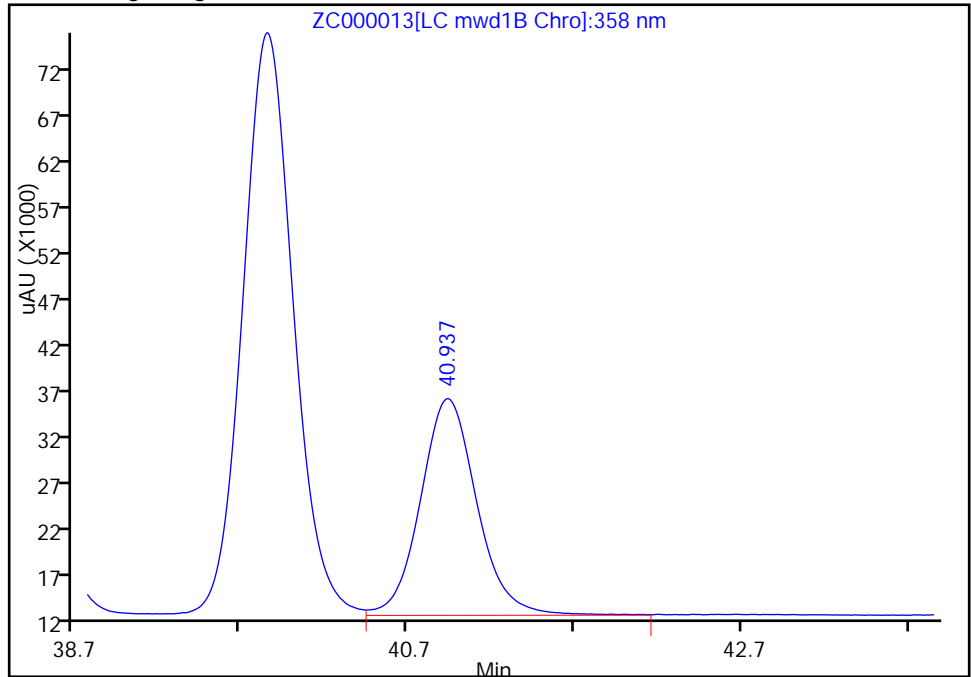
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000013.D
Injection Date: 29-May-2014 22:39:59 Instrument ID: LC11
Lims ID: ICV
Client ID:
Operator ID: TQP ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

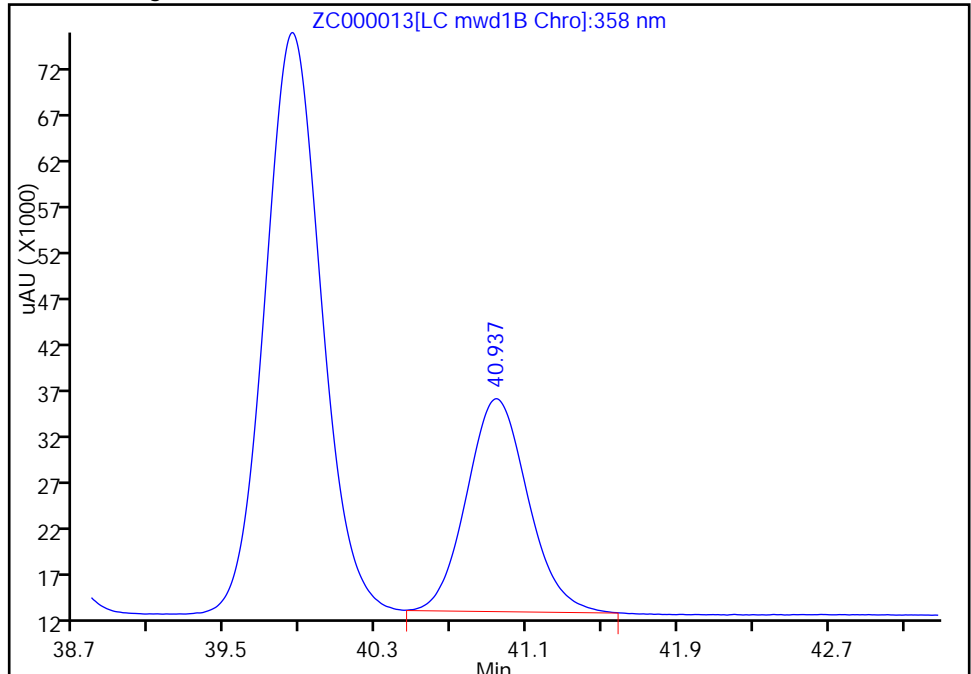
RT: 40.94
Response: 23540
Amount: 438.0931

Processing Integration Results



RT: 40.94
Response: 23114
Amount: 431.2736

Manual Integration Results



Reviewer: phant, 30-May-2014 10:32:36
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: LODV 320-43369/14 Calibration Date: 05/29/2014 23:36
 Instrument ID: LC11 Calib Start Date: 05/29/2014 14:10
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 05/30/2014 05:16
 Lab File ID: ZC000014.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	91.33	106.4		5.83	5.00	16.5	
RDX	Ave	90.42	101.6		5.62	5.00	12.4	
1,3,5-Trinitrobenzene	Ave	218.7	288.6		6.60	5.00	32.0	
Picric acid	Ave	171.1	174.3		20.4	20.0	1.8	
1,3-Dinitrobenzene	Ave	222.9	242.0		5.43	5.00	8.6	
3,5-Dinitroaniline	Ave	152.5	162.4		5.33	5.00	6.5	
Nitrobenzene	Ave	100.9	109.6		5.43	5.00	8.6	
Tetryl	Ave	127.2	133.8		5.26	5.00	5.2	
Nitroglycerin	Ave	94.70	96.25		20.3	20.0	1.6	
2,4,6-Trinitrotoluene	Ave	130.7	138.2		5.29	5.00	5.7	
4-Amino-2,6-dinitrotoluene	Ave	103.5	111.0		5.36	5.00	7.3	
2-Amino-4,6-dinitrotoluene	Ave	120.5	128.6		5.34	5.00	6.8	
2,6-Dinitrotoluene	Ave	80.98	87.20		5.38	5.00	7.7	
2,4-Dinitrotoluene	Ave	135.7	144.4		5.32	5.00	6.4	
2-Nitrotoluene	Ave	59.42	66.20		5.57	5.00	11.4	
4-Nitrotoluene	Ave	72.60	78.80		5.43	5.00	8.5	
3-Nitrotoluene	Ave	66.98	73.60		5.49	5.00	9.9	
PETN	Ave	53.59	54.20		20.2	20.0	1.1	
Ethylene glycol dinitrate	None					5.00	-100.0	
3,4-Dinitrotoluene	Ave	78.77	89.60		5.69	5.00	13.8	

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: LODV 320-43369/14 Calibration Date: 05/29/2014 23:36
 Instrument ID: LC11 Calib Start Date: 05/29/2014 14:10
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 05/30/2014 05:16
 Lab File ID: ZC000014.D

Analyte	RT	RT WINDOW	
		FROM	TO
DNX	18.67	19.00	19.50
HMX	20.59	20.34	20.84
MNX	21.56	21.78	22.28
RDX	23.84	23.58	24.08
1,3,5-Trinitrobenzene	25.76	25.51	26.01
Picric acid	26.20	25.85	26.35
1,3-Dinitrobenzene	28.38	28.12	28.62
3,5-Dinitroaniline	29.51	29.24	29.74
Nitrobenzene	29.88	29.63	30.13
Tetryl	30.34	30.08	30.58
Nitroglycerin	30.78	30.53	31.03
2,4,6-Trinitrotoluene	31.49	31.23	31.73
4-Amino-2,6-dinitrotoluene	32.36	32.11	32.61
2-Amino-4,6-dinitrotoluene	32.99	32.74	33.24
2,6-Dinitrotoluene	34.15	33.90	34.40
2,4-Dinitrotoluene	34.49	34.24	34.74
2-Nitrotoluene	37.23	36.97	37.47
4-Nitrotoluene	38.41	38.16	38.66
3-Nitrotoluene	39.90	39.61	40.11
PETN	40.93	40.69	41.19
Ethylene glycol dinitrate			
TNX			
3,4-Dinitrotoluene	32.68	32.41	32.91

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000014.D
 Lims ID: LODV
 Client ID:
 Sample Type: LODV
 Inject. Date: 29-May-2014 23:36:34 ALS Bottle#: 13 Worklist Smp#: 14
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012781-014
 Operator ID: TQP Instrument ID: LC11
 Method: \\SACChrom\ChromData\LC11\20140529-12781.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 30-May-2014 13:33:04 Calib Date: 29-May-2014 20:46:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000011.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK026

First Level Reviewer: phant

Date: 30-May-2014 10:32:55

Det	RT (min.)	Exp RT (min.)	Diff RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
	17 hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazi						
1	18.666	19.254	-0.588	34H			NC
	11 HMX						
1	20.589	20.585	0.004	532H	5.00	5.83	
	18 MNX						
1	21.556	22.031	-0.475	38H			NC
	19 RDX						
1	23.842	23.828	0.014	508H	5.00	5.62	
	27 1,3,5-Trinitrobenzene						
1	25.759	25.755	0.004	1443H	5.00	6.60	
	10 2,4,6-Trinitrophenol						
2	26.202	26.095	0.107	3485H	20.0	20.4	
1	26.202	26.095	0.107	2489H	20.0	20.9	
	24 1,3-Dinitrobenzene						
1	28.376	28.371	0.005	1210H	5.00	5.43	
	9 3,5-Dinitroaniline						
1	29.506	29.488	0.018	812H	5.00	5.33	
	5 Nitrobenzene						
1	29.879	29.875	0.004	548H	5.00	5.43	
	20 Tetryl						
1	30.342	30.331	0.011	669H	5.00	5.26	
	7 Nitroglycerin						
2	30.782	30.775	0.007	1925H	20.0	20.3	
	25 2,4,6-Trinitrotoluene						
1	31.486	31.481	0.005	691H	5.00	5.29	
	26 4-Amino-2,6-dinitrotoluene						
1	32.359	32.361	-0.002	555H	5.00	5.36	

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000014.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 30	3,4-Dinitrotoluene						M
1	32.676	32.658	0.018	448H	5.00	5.69	
2	32.656	32.658	-0.002	857H	5.00	5.79	M
6	2-Amino-4,6-dinitrotoluene						
1	32.992	32.985	0.007	643H	5.00	5.34	
12	2,6-Dinitrotoluene						
1	34.146	34.145	0.001	436H	5.00	5.38	
23	2,4-Dinitrotoluene						
1	34.492	34.491	0.001	722H	5.00	5.32	
16	o-Nitrotoluene						
1	37.229	37.215	0.014	331H	5.00	5.57	
15	p-Nitrotoluene						
1	38.412	38.408	0.004	394H	5.00	5.43	
8	m-Nitrotoluene						
1	39.896	39.858	0.038	368H	5.00	5.49	
21	PETN						M
2	40.929	40.938	-0.009	1084H	20.0	20.2	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

H - Response Measured by Height

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000014.D

Injection Date: 29-May-2014 23:36:34

Instrument ID: LC11

Operator ID: TQP

Lims ID: LODV

Worklist Smp#: 14

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

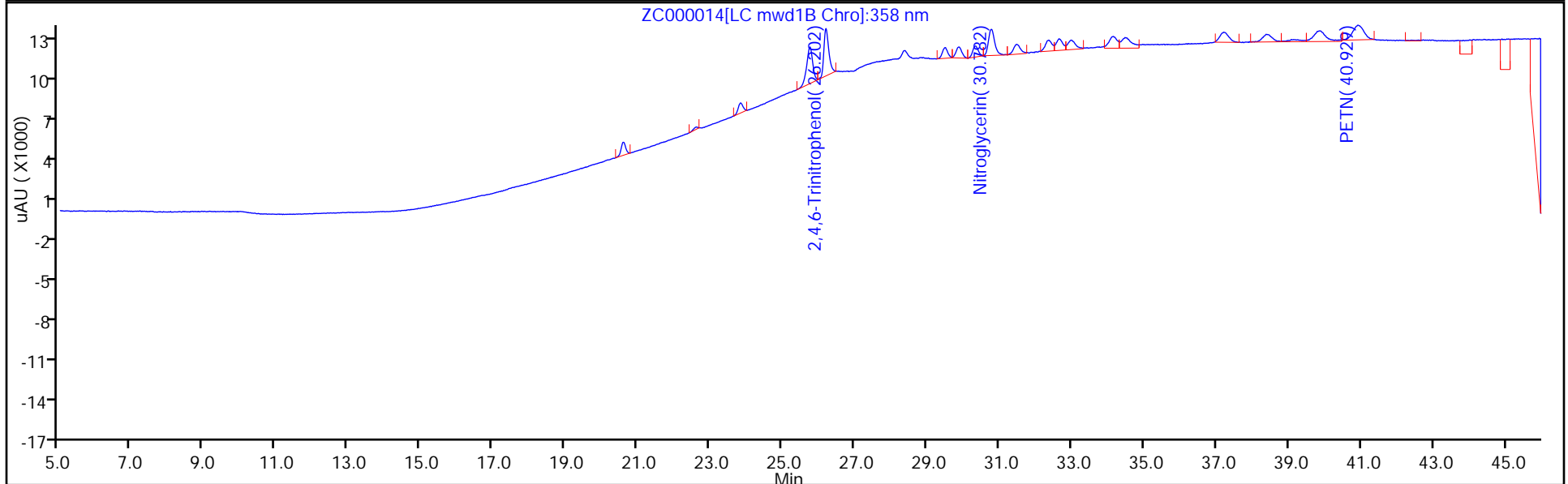
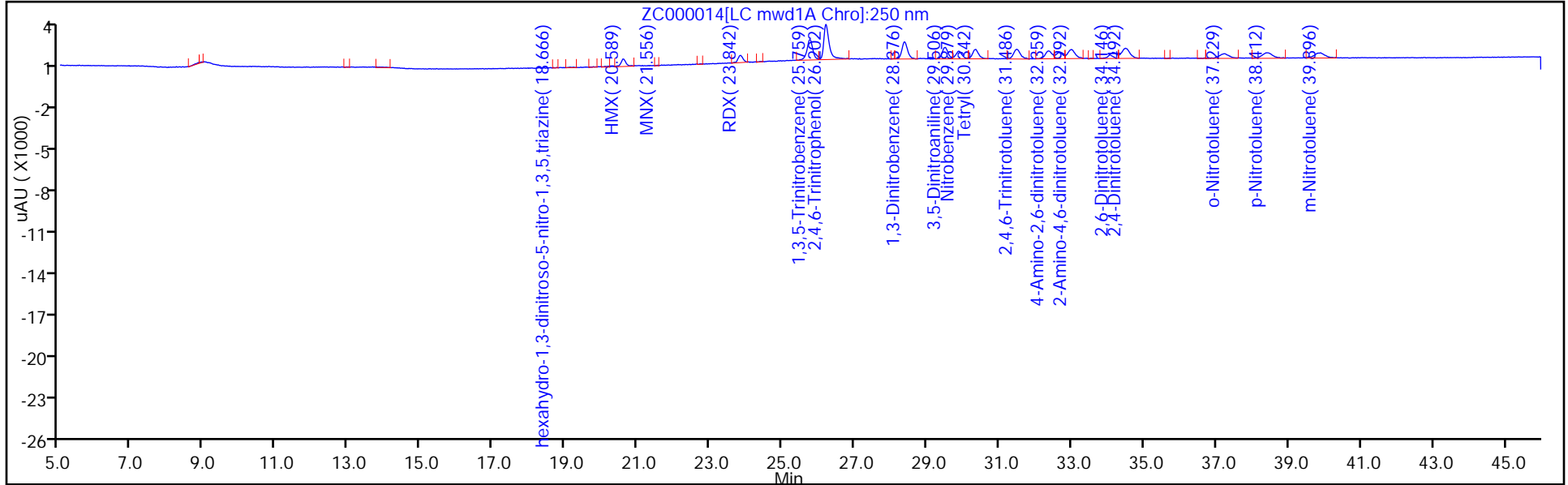
ALS Bottle#: 13

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



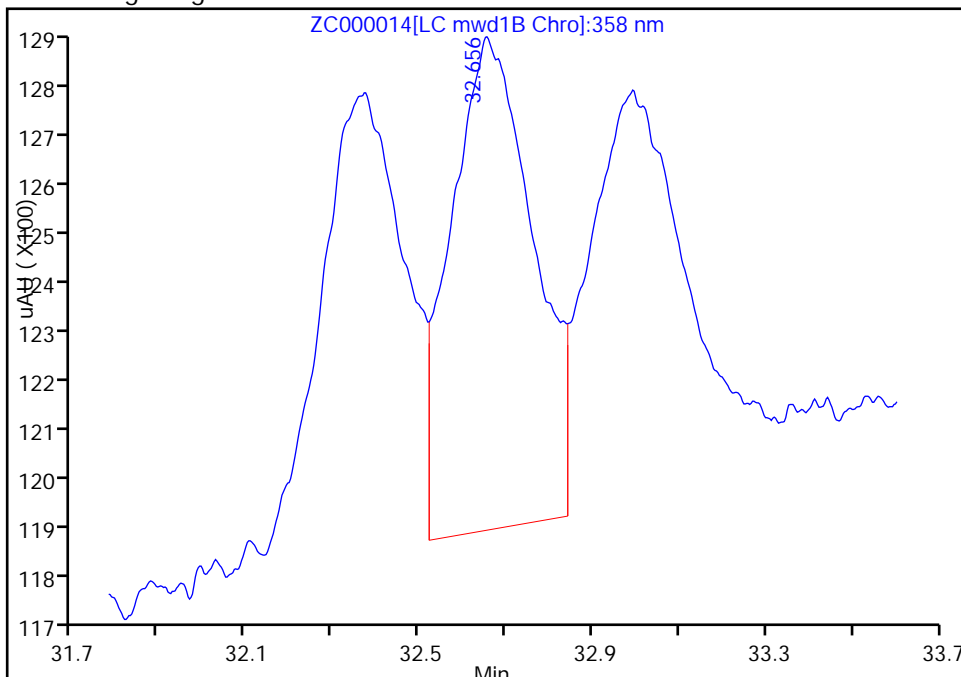
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000014.D
Injection Date: 29-May-2014 23:36:34 Instrument ID: LC11
Lims ID: LODV
Client ID:
Operator ID: TQP ALS Bottle#: 13 Worklist Smp#: 14
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

\$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

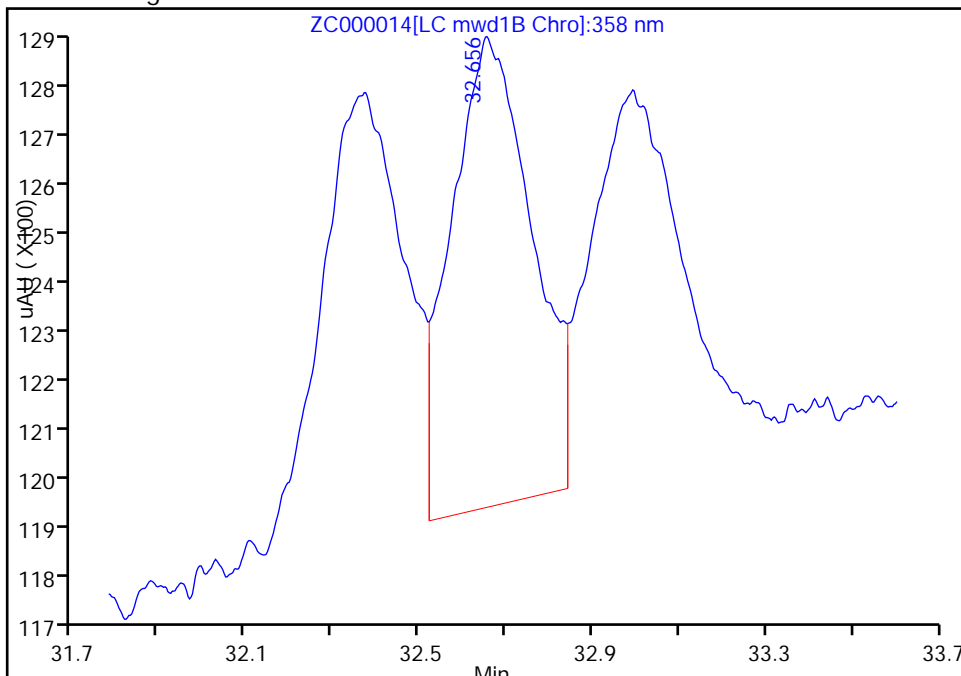
RT: 32.66
Response: 898
Amount: 6.062969

Processing Integration Results



RT: 32.66
Response: 857
Amount: 5.786152

Manual Integration Results



Reviewer: phant, 30-May-2014 13:10:53
Audit Action: Assigned New Baseline
Audit Reason: Baseline

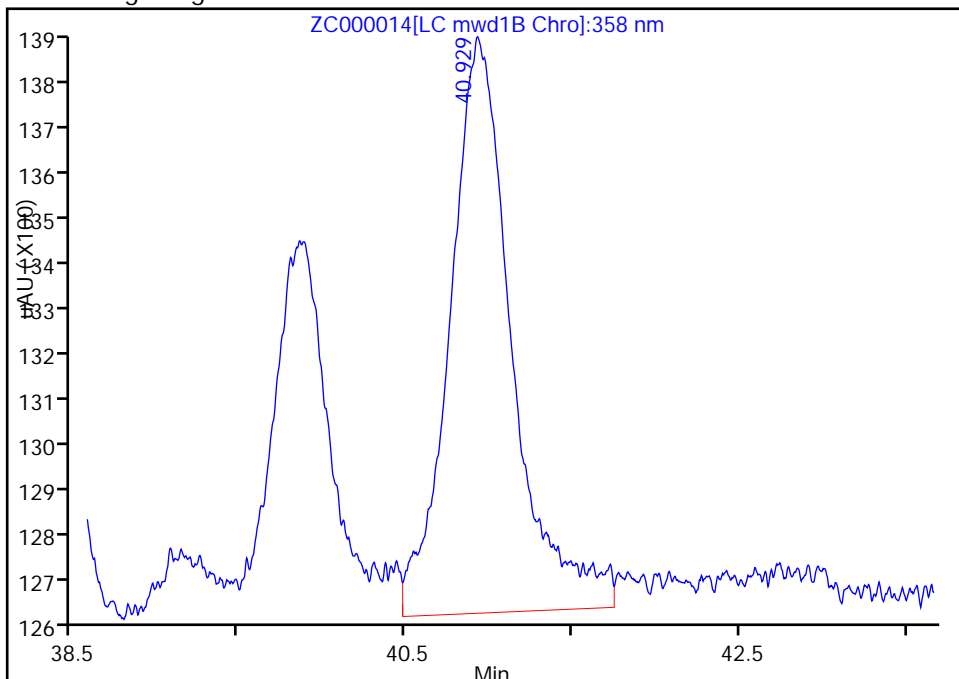
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000014.D
Injection Date: 29-May-2014 23:36:34 Instrument ID: LC11
Lims ID: LODV
Client ID:
Operator ID: TQP ALS Bottle#: 13 Worklist Smp#: 14
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

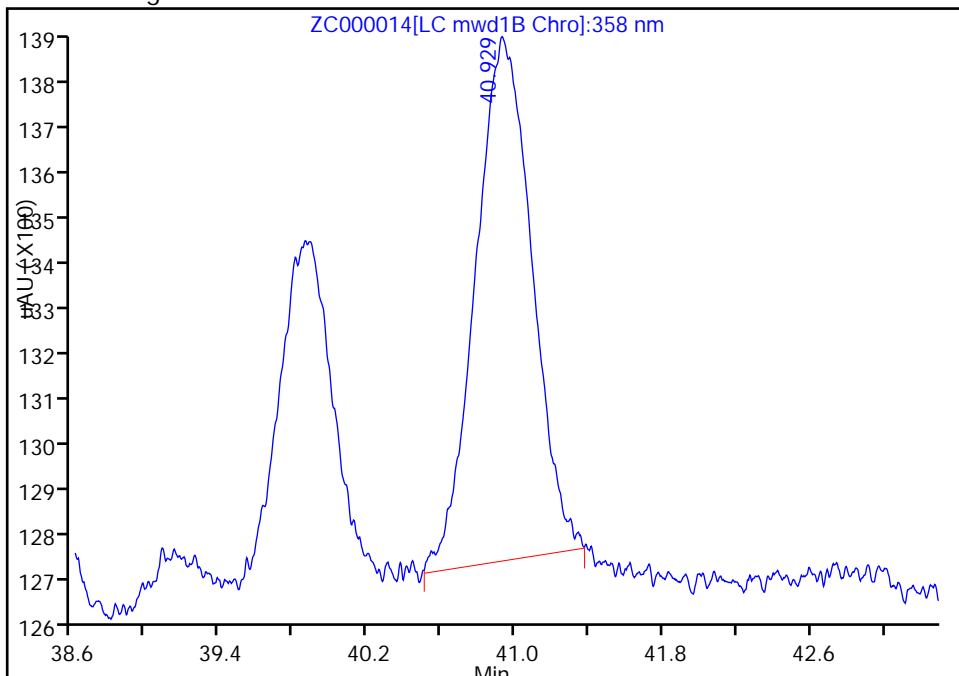
RT: 40.93
Response: 1192
Amount: 22.183812

Processing Integration Results



RT: 40.93
Response: 1084
Amount: 20.225862

Manual Integration Results



Reviewer: phant, 30-May-2014 10:32:55
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: CCV 320-43521/4 Calibration Date: 05/30/2014 19:08
 Instrument ID: LC11 Calib Start Date: 05/29/2014 14:10
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 05/30/2014 05:16
 Lab File ID: ZD000004.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	91.33	91.65		201	200	0.4	15.0
RDX	Ave	90.42	91.11		202	200	0.8	15.0
1,3,5-Trinitrobenzene	Ave	218.7	212.0		194	200	-3.1	15.0
Picric acid	Ave	171.1	176.9		517	500	3.4	15.0
1,3-Dinitrobenzene	Ave	222.9	223.2		200	200	0.1	15.0
3,5-Dinitroaniline	Ave	152.5	151.8		199	200	-0.5	15.0
Nitrobenzene	Ave	100.9	101.7		201	200	0.7	15.0
Tetryl	Ave	127.2	127.4		200	200	0.2	15.0
Nitroglycerin	Ave	94.70	97.82		207	200	3.3	15.0
2,4,6-Trinitrotoluene	Ave	130.7	129.2		198	200	-1.1	15.0
4-Amino-2,6-dinitrotoluene	Ave	103.5	102.2		198	200	-1.2	15.0
2-Amino-4,6-dinitrotoluene	Ave	120.5	119.5		198	200	-0.8	15.0
2,6-Dinitrotoluene	Ave	80.98	80.26		198	200	-0.9	15.0
2,4-Dinitrotoluene	Ave	135.7	135.2		199	200	-0.4	15.0
2-Nitrotoluene	Ave	59.42	58.77		198	200	-1.1	15.0
4-Nitrotoluene	Ave	72.60	72.00		198	200	-0.8	15.0
3-Nitrotoluene	Ave	66.98	66.28		198	200	-1.1	15.0
PETN	Ave	53.59	54.15		202	200	1.0	15.0
3,4-Dinitrotoluene	Ave	78.77	77.78		197	200	-1.3	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: CCV 320-43521/4 Calibration Date: 05/30/2014 19:08
 Instrument ID: LC11 Calib Start Date: 05/29/2014 14:10
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 05/30/2014 05:16
 Lab File ID: ZD000004.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	20.58	20.33	20.83
RDX	23.83	23.58	24.08
1,3,5-Trinitrobenzene	25.75	25.50	26.00
Picric acid	26.10	25.85	26.35
1,3-Dinitrobenzene	28.37	28.12	28.62
3,5-Dinitroaniline	29.49	29.24	29.74
Nitrobenzene	29.87	29.62	30.12
Tetryl	30.33	30.08	30.58
Nitroglycerin	30.77	30.52	31.02
2,4,6-Trinitrotoluene	31.48	31.23	31.73
4-Amino-2,6-dinitrotoluene	32.37	32.12	32.62
2-Amino-4,6-dinitrotoluene	32.99	32.74	33.24
2,6-Dinitrotoluene	34.15	33.90	34.40
2,4-Dinitrotoluene	34.49	34.24	34.74
2-Nitrotoluene	37.21	36.96	37.46
4-Nitrotoluene	38.41	38.16	38.66
3-Nitrotoluene	39.85	39.60	40.10
PETN	40.92	40.67	41.17
3,4-Dinitrotoluene	32.66	32.41	32.91

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000004.D
 Lims ID: CCV 06
 Client ID:
 Sample Type: CCVRT
 Inject. Date: 30-May-2014 19:08:00 ALS Bottle#: 3 Worklist Smp#: 4
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012820-004
 Operator ID: TQP Instrument ID: LC11
 Sublist: chrom-8330 Metab LC11*sub1
 Method: \\SACChrom\ChromData\LC11\20140530-12820.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 02-Jun-2014 14:07:28 Calib Date: 30-May-2014 05:16:15
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000020.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK029

First Level Reviewer: phant Date: 02-Jun-2014 14:07:28

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	20.583	20.583	0.000	18330H	200.0	200.7	
19 RDX							
1	23.826	23.826	0.000	18222H	200.0	201.5	
27 1,3,5-Trinitrobenzene							
1	25.753	25.753	0.000	42392H	200.0	193.9	
10 2,4,6-Trinitrophenol							
2	26.100	26.100	0.000	88450H	500.0	517.0	
1	26.100	26.100	0.000	60825H	500.0	509.8	
24 1,3-Dinitrobenzene							
1	28.373	28.373	0.000	44632H	200.0	200.2	
9 3,5-Dinitroaniline							
1	29.493	29.493	0.000	30353H	200.0	199.1	
5 Nitrobenzene							
1	29.873	29.873	0.000	20335H	200.0	201.5	
20 Tetryl							
1	30.333	30.333	0.000	25474H	200.0	200.3	
7 Nitroglycerin							
2	30.770	30.770	0.000	19564H	200.0	206.6	
25 2,4,6-Trinitrotoluene							
1	31.480	31.480	0.000	25843H	200.0	197.7	
26 4-Amino-2,6-dinitrotoluene							
1	32.366	32.366	0.000	20439H	200.0	197.5	
\$ 30 3,4-Dinitrotoluene							
1	32.663	32.663	0.000	15555H	200.0	197.5	
2	32.663	32.663	0.000	29525H	200.0	199.3	
6 2-Amino-4,6-dinitrotoluene							
1	32.993	32.993	0.000	23896H	200.0	198.4	

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000004.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12	2,6-Dinitrotoluene						
1	34.146	34.146	0.000	16051H	200.0	198.2	
23	2,4-Dinitrotoluene						
1	34.493	34.493	0.000	27034H	200.0	199.2	
16	o-Nitrotoluene						
1	37.209	37.209	0.000	11753H	200.0	197.8	
15	p-Nitrotoluene						
1	38.409	38.409	0.000	14399H	200.0	198.3	
8	m-Nitrotoluene						
1	39.853	39.853	0.000	13255H	200.0	197.9	
21	PETN						M
2	40.919	40.919	0.000	10830H	200.0	202.1	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000004.D

Injection Date: 30-May-2014 19:08:00

Instrument ID: LC11

Operator ID: TQP

Lims ID: CCV 06

Worklist Smp#: 4

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

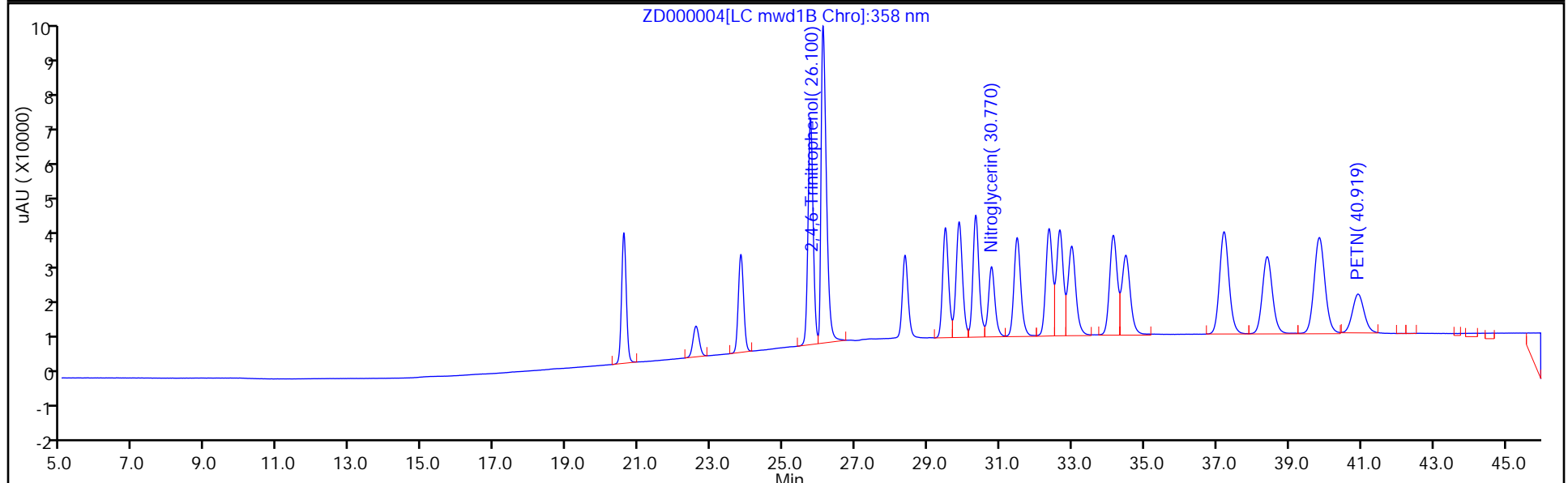
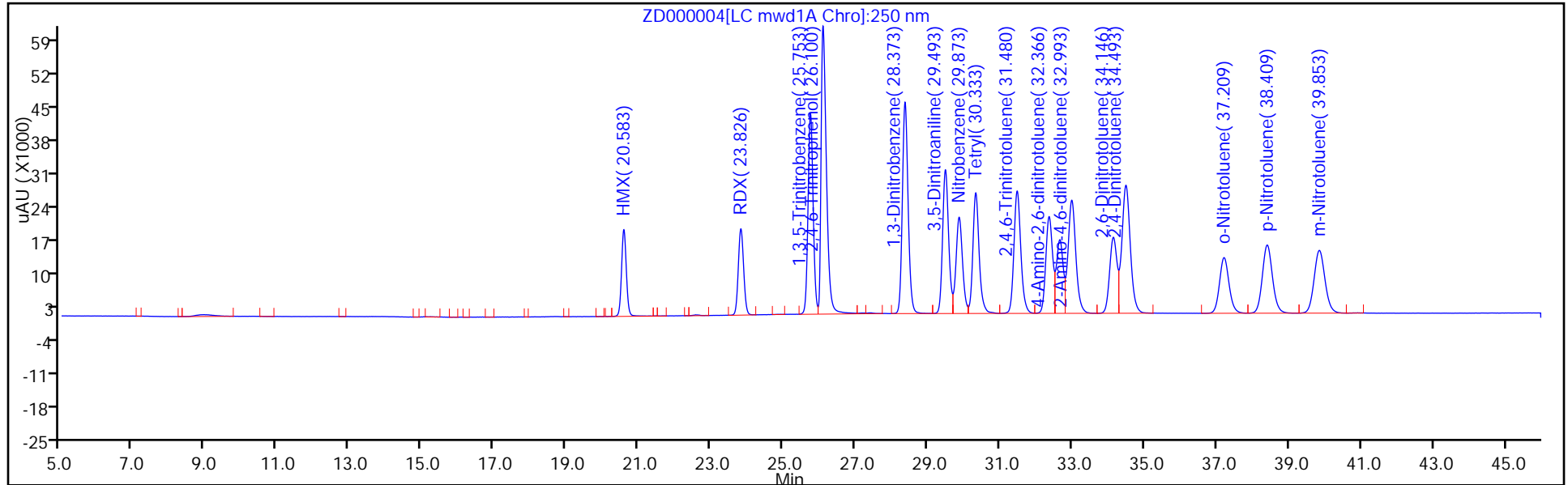
ALS Bottle#: 3

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



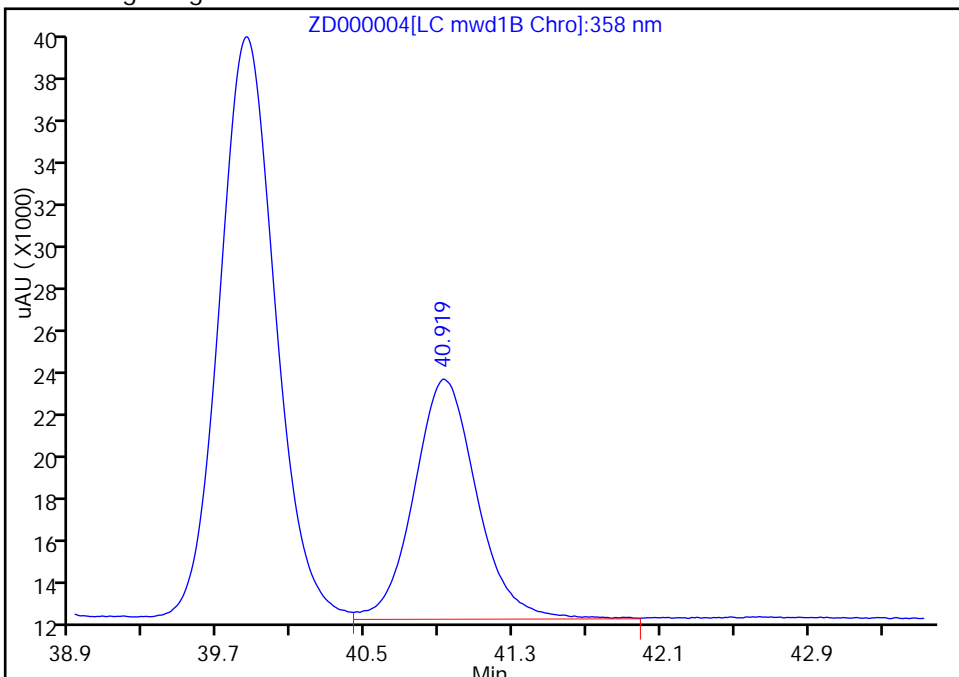
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000004.D
Injection Date: 30-May-2014 19:08:00 Instrument ID: LC11
Lims ID: CCV 06
Client ID:
Operator ID: TQP ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

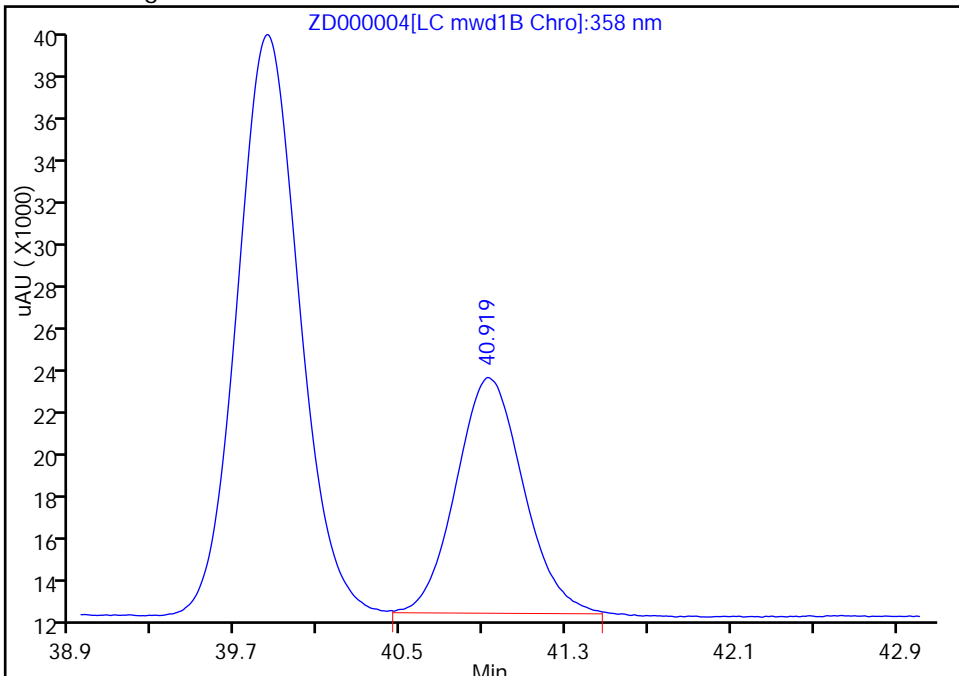
RT: 40.92
Response: 11052
Amount: 206.2142

Processing Integration Results



RT: 40.92
Response: 10830
Amount: 202.0720

Manual Integration Results



Reviewer: phant, 02-Jun-2014 07:47:51
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: CCV 320-43521/14 Calibration Date: 05/31/2014 04:34
 Instrument ID: LC11 Calib Start Date: 05/29/2014 14:10
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 05/30/2014 05:16
 Lab File ID: ZD000014.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	91.33	93.69		103	100	2.6	15.0
RDX	Ave	90.42	93.83		104	100	3.8	15.0
1,3,5-Trinitrobenzene	Ave	218.7	215.0		98.3	100	-1.7	15.0
Picric acid	Ave	171.1	186.1		218	200	8.8	15.0
1,3-Dinitrobenzene	Ave	222.9	226.1		101	100	1.4	15.0
3,5-Dinitroaniline	Ave	152.5	153.7		101	100	0.8	15.0
Nitrobenzene	Ave	100.9	102.7		102	100	1.8	15.0
Tetryl	Ave	127.2	128.1		101	100	0.7	15.0
Nitroglycerin	Ave	94.70	97.30		103	100	2.7	15.0
2,4,6-Trinitrotoluene	Ave	130.7	130.1		99.5	100	-0.5	15.0
4-Amino-2,6-dinitrotoluene	Ave	103.5	102.8		99.4	100	-0.6	15.0
2-Amino-4,6-dinitrotoluene	Ave	120.5	120.1		99.7	100	-0.3	15.0
2,6-Dinitrotoluene	Ave	80.98	80.70		99.7	100	-0.3	15.0
2,4-Dinitrotoluene	Ave	135.7	135.9		100	100	0.1	15.0
2-Nitrotoluene	Ave	59.42	59.01		99.3	100	-0.7	15.0
4-Nitrotoluene	Ave	72.60	72.28		99.6	100	-0.4	15.0
3-Nitrotoluene	Ave	66.98	66.56		99.4	100	-0.6	15.0
PETN	Ave	53.59	53.87		101	100	0.5	15.0
3,4-Dinitrotoluene	Ave	78.77	77.95		99.0	100	-1.0	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: CCV 320-43521/14 Calibration Date: 05/31/2014 04:34
 Instrument ID: LC11 Calib Start Date: 05/29/2014 14:10
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 05/30/2014 05:16
 Lab File ID: ZD000014.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	20.59	20.34	20.84
RDX	23.82	23.57	24.07
1,3,5-Trinitrobenzene	25.75	25.50	26.00
Picric acid	26.15	25.90	26.40
1,3-Dinitrobenzene	28.37	28.12	28.62
3,5-Dinitroaniline	29.49	29.24	29.74
Nitrobenzene	29.86	29.61	30.11
Tetryl	30.33	30.08	30.58
Nitroglycerin	30.76	30.51	31.01
2,4,6-Trinitrotoluene	31.47	31.22	31.72
4-Amino-2,6-dinitrotoluene	32.36	32.11	32.61
2-Amino-4,6-dinitrotoluene	32.99	32.74	33.24
2,6-Dinitrotoluene	34.14	33.89	34.39
2,4-Dinitrotoluene	34.49	34.24	34.74
2-Nitrotoluene	37.21	36.96	37.46
4-Nitrotoluene	38.40	38.15	38.65
3-Nitrotoluene	39.84	39.59	40.09
PETN	40.91	40.66	41.16
3,4-Dinitrotoluene	32.65	32.40	32.90

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000014.D
 Lims ID: CCV 05
 Client ID:
 Sample Type: CCVRT
 Inject. Date: 31-May-2014 04:34:05 ALS Bottle#: 4 Worklist Smp#: 14
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012820-014
 Operator ID: TQP Instrument ID: LC11
 Sublist: chrom-8330 Metab LC11*sub1
 Method: \\SACChrom\ChromData\LC11\20140530-12820.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 02-Jun-2014 14:08:17 Calib Date: 30-May-2014 05:16:15
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000020.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK029

First Level Reviewer: phant Date: 02-Jun-2014 14:08:17

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
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11 HMX							
1	20.594	20.594	0.000	9369H	100.0	102.6	
19 RDX							
1	23.824	23.824	0.000	9383H	100.0	103.8	
27 1,3,5-Trinitrobenzene							
1	25.750	25.750	0.000	21499H	100.0	98.3	
10 2,4,6-Trinitrophenol							
2	26.154	26.154	0.000	37222H	200.0	217.6	
1	26.154	26.154	0.000	25621H	200.0	214.7	
24 1,3-Dinitrobenzene							
1	28.367	28.367	0.000	22607H	100.0	101.4	
9 3,5-Dinitroaniline							
1	29.487	29.487	0.000	15372H	100.0	100.8	
5 Nitrobenzene							
1	29.864	29.864	0.000	10272H	100.0	101.8	
20 Tetryl							
1	30.327	30.327	0.000	12806H	100.0	100.7	
7 Nitroglycerin							
2	30.764	30.764	0.000	9730H	100.0	102.7	
25 2,4,6-Trinitrotoluene							
1	31.474	31.474	0.000	13010H	100.0	99.5	
26 4-Amino-2,6-dinitrotoluene							
1	32.360	32.360	0.000	10282H	100.0	99.4	
\$ 30 3,4-Dinitrotoluene							
1	32.654	32.654	0.000	7795H	100.0	99.0	
2	32.657	32.657	0.000	14846H	100.0	100.2	
6 2-Amino-4,6-dinitrotoluene							
1	32.990	32.990	0.000	12010H	100.0	99.7	

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000014.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12	2,6-Dinitrotoluene						
1	34.137	34.137	0.000	8070H	100.0	99.7	
23	2,4-Dinitrotoluene						
1	34.487	34.487	0.000	13589H	100.0	100.1	
16	o-Nitrotoluene						
1	37.207	37.207	0.000	5901H	100.0	99.3	
15	p-Nitrotoluene						
1	38.400	38.400	0.000	7228H	100.0	99.6	
8	m-Nitrotoluene						
1	39.843	39.843	0.000	6656H	100.0	99.4	
21	PETN						M
2	40.913	40.913	0.000	5387H	100.0	100.5	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000014.D

Injection Date: 31-May-2014 04:34:05

Instrument ID: LC11

Operator ID: TQP

Lims ID: CCV 05

Worklist Smp#: 14

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

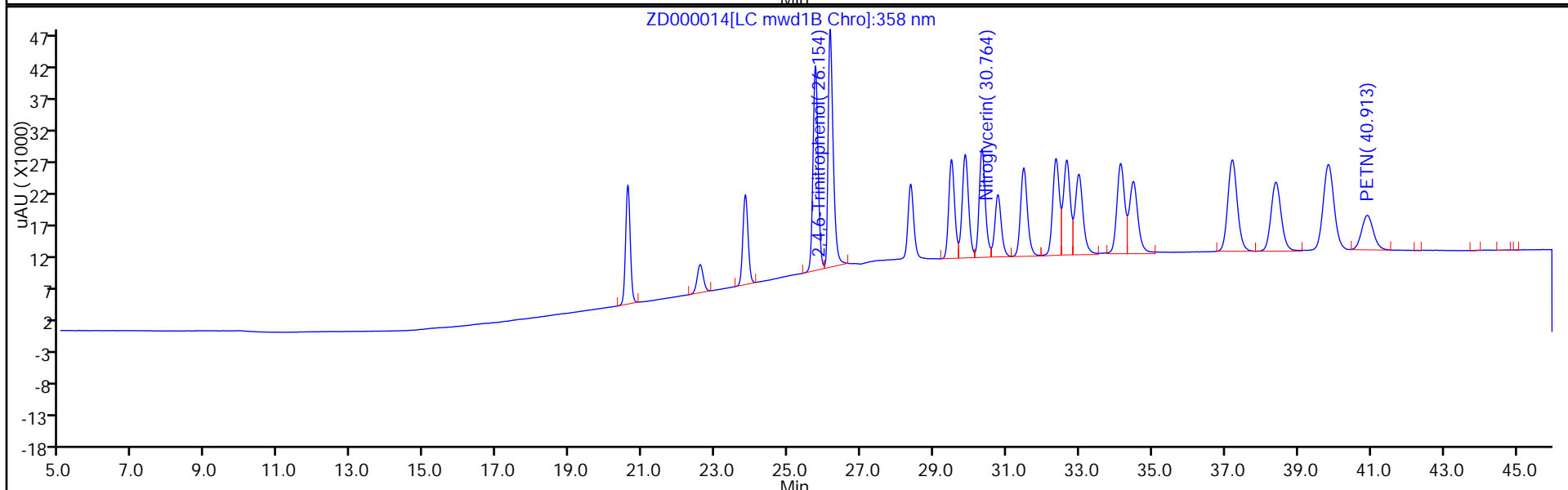
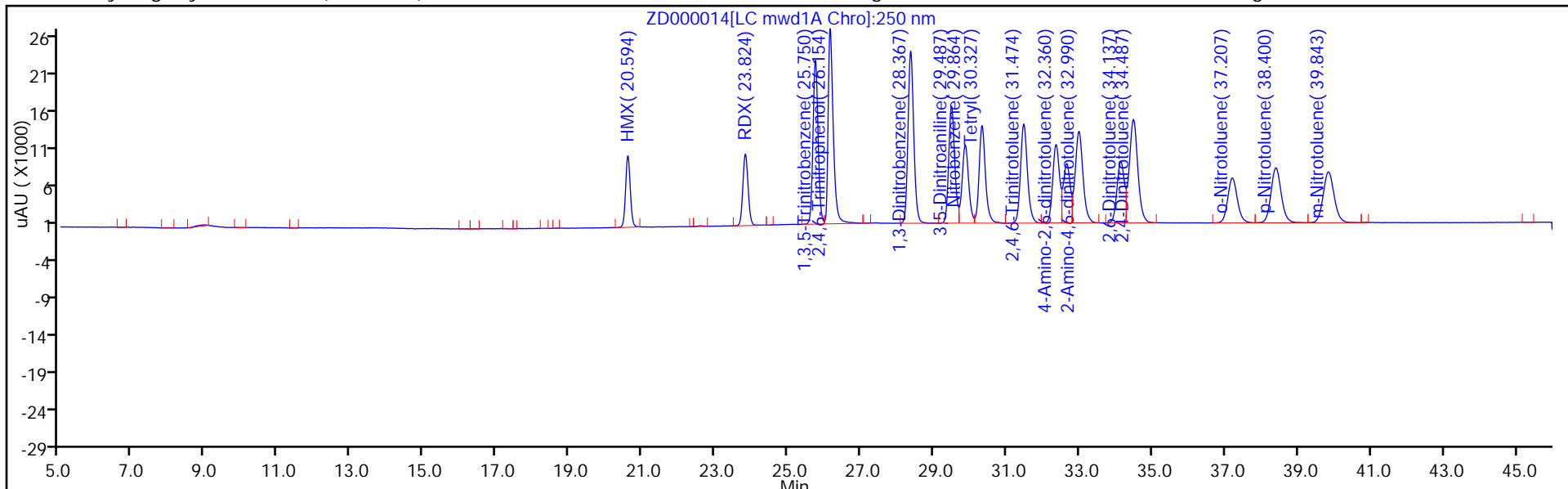
ALS Bottle#: 4

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



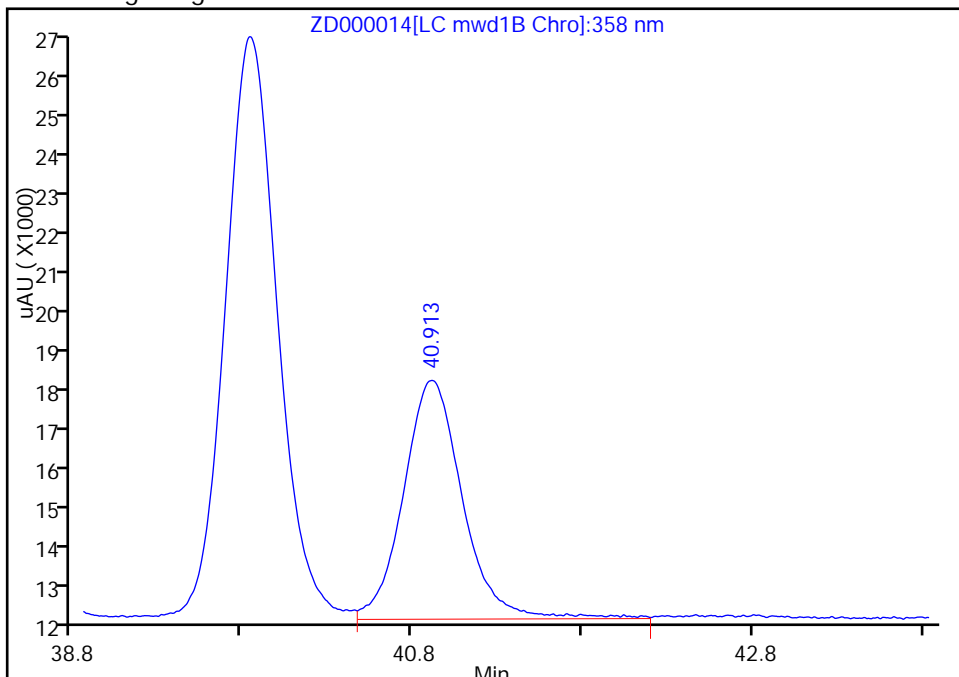
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000014.D
Injection Date: 31-May-2014 04:34:05 Instrument ID: LC11
Lims ID: CCV 05
Client ID:
Operator ID: TQP ALS Bottle#: 4 Worklist Smp#: 14
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

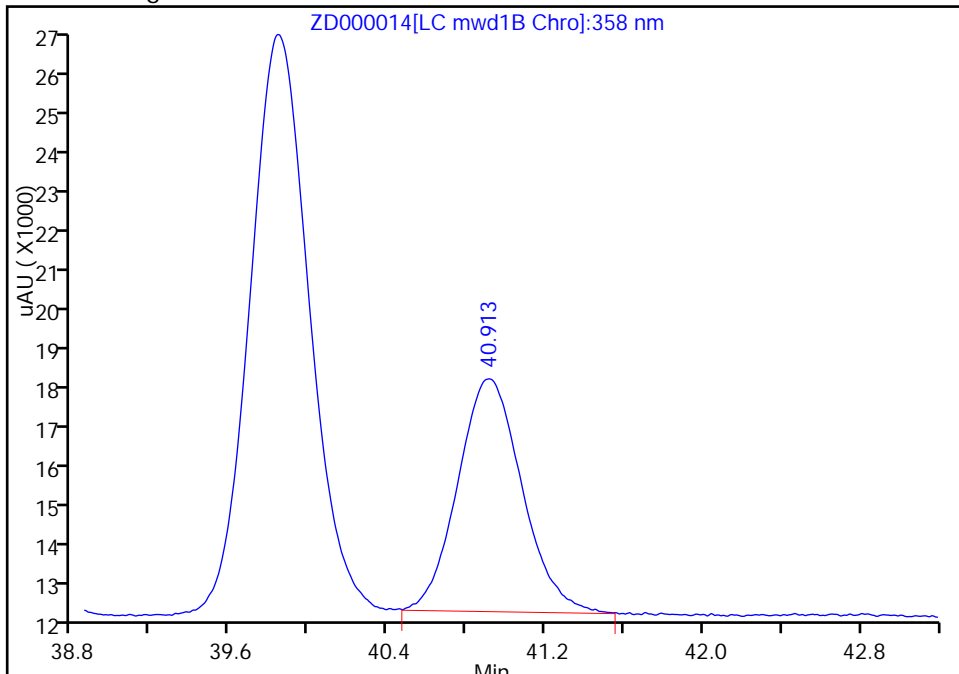
RT: 40.91
Response: 5535
Amount: 103.2750

Processing Integration Results



RT: 40.91
Response: 5387
Amount: 100.5136

Manual Integration Results



Reviewer: phant, 02-Jun-2014 07:45:09
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: CCV 320-43521/16 Calibration Date: 05/31/2014 06:27
 Instrument ID: LC11 Calib Start Date: 05/29/2014 14:10
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 05/30/2014 05:16
 Lab File ID: ZD000016.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	91.33	93.78		103	100	2.7	15.0
RDX	Ave	90.42	93.38		103	100	3.3	15.0
1,3,5-Trinitrobenzene	Ave	218.7	214.2		98.0	100	-2.0	15.0
Picric acid	Ave	171.1	185.8		217	200	8.6	15.0
1,3-Dinitrobenzene	Ave	222.9	226.0		101	100	1.4	15.0
3,5-Dinitroaniline	Ave	152.5	153.7		101	100	0.8	15.0
Nitrobenzene	Ave	100.9	102.7		102	100	1.8	15.0
Tetryl	Ave	127.2	128.0		101	100	0.7	15.0
Nitroglycerin	Ave	94.70	97.63		103	100	3.1	15.0
2,4,6-Trinitrotoluene	Ave	130.7	130.2		99.6	100	-0.4	15.0
4-Amino-2,6-dinitrotoluene	Ave	103.5	103.1		99.6	100	-0.4	15.0
2-Amino-4,6-dinitrotoluene	Ave	120.5	120.5		100	100	0.0	15.0
2,6-Dinitrotoluene	Ave	80.98	80.90		99.9	100	-0.1	15.0
2,4-Dinitrotoluene	Ave	135.7	136.1		100	100	0.3	15.0
2-Nitrotoluene	Ave	59.42	59.01		99.3	100	-0.7	15.0
4-Nitrotoluene	Ave	72.60	72.25		99.5	100	-0.5	15.0
3-Nitrotoluene	Ave	66.98	66.62		99.5	100	-0.5	15.0
PETN	Ave	53.59	54.44		102	100	1.6	15.0
3,4-Dinitrotoluene	Ave	78.77	78.11		99.2	100	-0.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: CCV 320-43521/16 Calibration Date: 05/31/2014 06:27
 Instrument ID: LC11 Calib Start Date: 05/29/2014 14:10
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 05/30/2014 05:16
 Lab File ID: ZD000016.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	20.60	20.35	20.85
RDX	23.83	23.58	24.08
1,3,5-Trinitrobenzene	25.75	25.50	26.00
Picric acid	26.15	25.90	26.40
1,3-Dinitrobenzene	28.36	28.11	28.61
3,5-Dinitroaniline	29.48	29.23	29.73
Nitrobenzene	29.86	29.61	30.11
Tetryl	30.32	30.07	30.57
Nitroglycerin	30.76	30.51	31.01
2,4,6-Trinitrotoluene	31.47	31.22	31.72
4-Amino-2,6-dinitrotoluene	32.35	32.10	32.60
2-Amino-4,6-dinitrotoluene	32.98	32.73	33.23
2,6-Dinitrotoluene	34.13	33.88	34.38
2,4-Dinitrotoluene	34.47	34.22	34.72
2-Nitrotoluene	37.19	36.94	37.44
4-Nitrotoluene	38.39	38.14	38.64
3-Nitrotoluene	39.83	39.58	40.08
PETN	40.89	40.64	41.14
3,4-Dinitrotoluene	32.64	32.39	32.89

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000016.D
 Lims ID: CCV 05
 Client ID:
 Sample Type: CCVRT
 Inject. Date: 31-May-2014 06:27:25 ALS Bottle#: 4 Worklist Smp#: 16
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012820-016
 Operator ID: TQP Instrument ID: LC11
 Sublist: chrom-8330 Metab LC11*sub1
 Method: \\SACChrom\ChromData\LC11\20140530-12820.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 02-Jun-2014 14:08:23 Calib Date: 30-May-2014 05:16:15
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000020.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK029

First Level Reviewer: phant Date: 02-Jun-2014 14:08:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	20.597	20.597	0.000	9378H	100.0	102.7	
19 RDX							
1	23.827	23.827	0.000	9338H	100.0	103.3	
27 1,3,5-Trinitrobenzene							
1	25.750	25.750	0.000	21424H	100.0	98.0	
10 2,4,6-Trinitrophenol							
2	26.153	26.153	0.000	37164H	200.0	217.2	
1	26.153	26.153	0.000	25509H	200.0	213.8	
24 1,3-Dinitrobenzene							
1	28.363	28.363	0.000	22597H	100.0	101.4	
9 3,5-Dinitroaniline							
1	29.483	29.483	0.000	15368H	100.0	100.8	
5 Nitrobenzene							
1	29.857	29.857	0.000	10270H	100.0	101.8	
20 Tetryl							
1	30.320	30.320	0.000	12800H	100.0	100.7	
7 Nitroglycerin							
2	30.757	30.757	0.000	9763H	100.0	103.1	
25 2,4,6-Trinitrotoluene							
1	31.467	31.467	0.000	13023H	100.0	99.6	
26 4-Amino-2,6-dinitrotoluene							
1	32.350	32.350	0.000	10308H	100.0	99.6	
\$ 30 3,4-Dinitrotoluene							
1	32.643	32.643	0.000	7811H	100.0	99.2	
2	32.647	32.647	0.000	14829H	100.0	100.1	
6 2-Amino-4,6-dinitrotoluene							
1	32.977	32.977	0.000	12050H	100.0	100.0	

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000016.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12	2,6-Dinitrotoluene						
1	34.127	34.127	0.000	8090H	100.0	99.9	
23	2,4-Dinitrotoluene						
1	34.473	34.473	0.000	13608H	100.0	100.3	
16	o-Nitrotoluene						
1	37.190	37.190	0.000	5901H	100.0	99.3	
15	p-Nitrotoluene						
1	38.387	38.387	0.000	7225H	100.0	99.5	
8	m-Nitrotoluene						
1	39.827	39.827	0.000	6662H	100.0	99.5	
21	PETN						M
2	40.893	40.893	0.000	5444H	100.0	101.6	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000016.D

Injection Date: 31-May-2014 06:27:25

Instrument ID: LC11

Operator ID: TQP

Lims ID: CCV 05

Worklist Smp#: 16

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

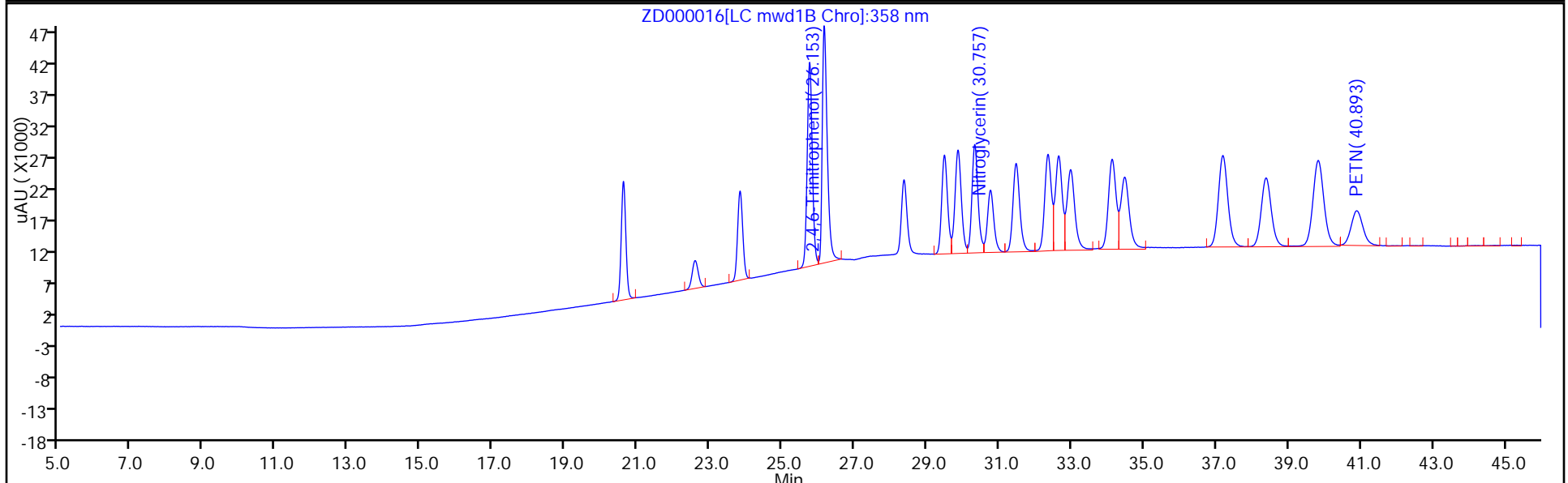
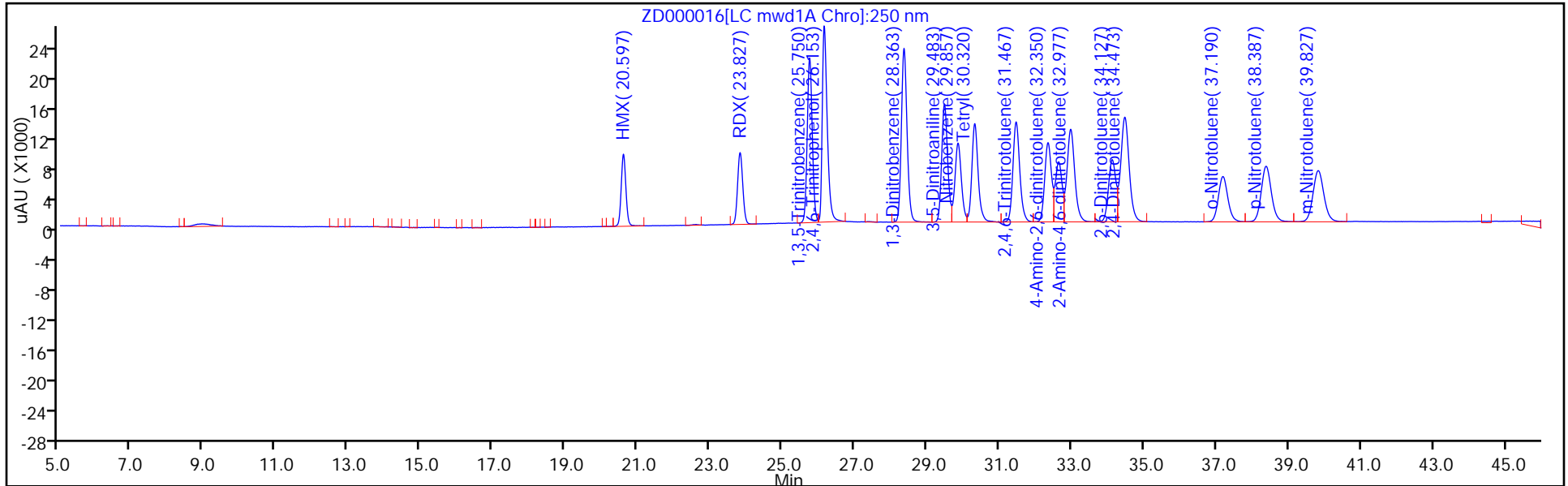
ALS Bottle#: 4

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



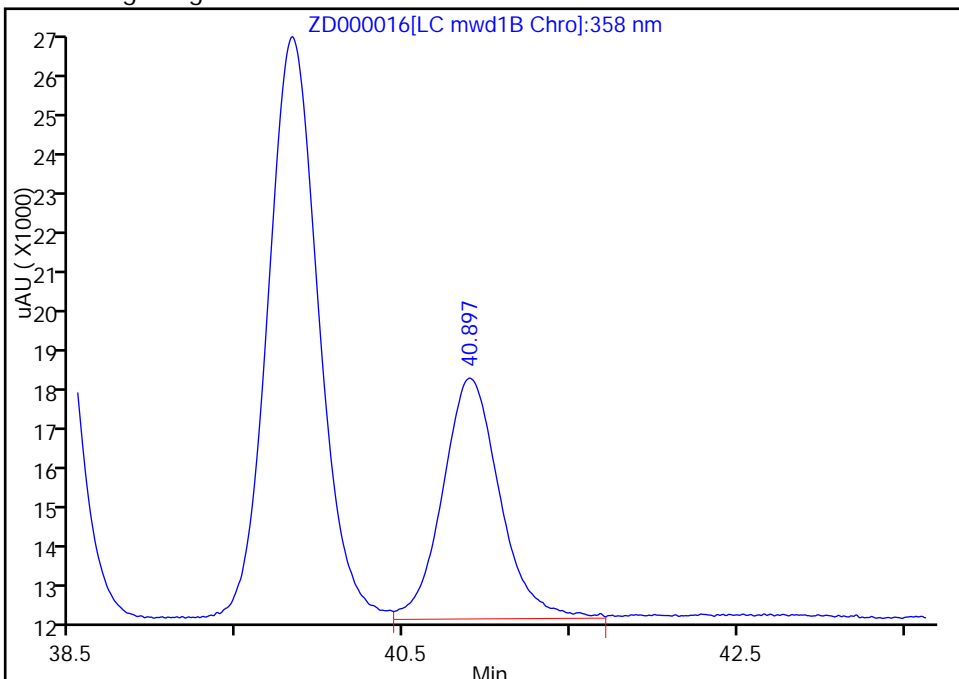
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000016.D
Injection Date: 31-May-2014 06:27:25 Instrument ID: LC11
Lims ID: CCV 05
Client ID:
Operator ID: TQP ALS Bottle#: 4 Worklist Smp#: 16
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330 Metab LC11 Limit Group: LC 8330A ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

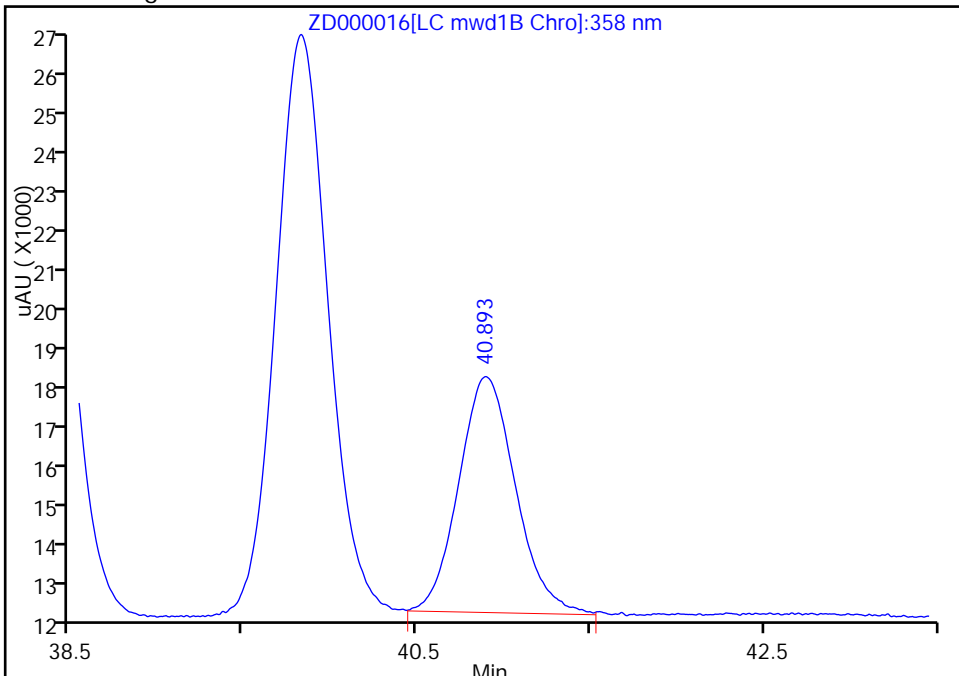
RT: 40.90
Response: 5569
Amount: 103.9094

Processing Integration Results



RT: 40.89
Response: 5444
Amount: 101.5771

Manual Integration Results



Reviewer: phant, 02-Jun-2014 07:46:06
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: ICV 320-42409/13 Calibration Date: 05/15/2014 22:47
 Instrument ID: LC12 Calib Start Date: 05/15/2014 12:57
 GC Column: Zorbax CN ID: 4.60 (mm) Calib End Date: 05/15/2014 20:36
 Lab File ID: O000013.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Picric acid	Ave	3.397	0.0970		28.6	1000	-97.1*	15.0
Nitrobenzene	Lin2		43.74		490	500	-1.9	15.0
Ethylene glycol dinitrate	Ave	21.42	20.03		468	500	-6.5	15.0
1,3-Dinitrobenzene	Ave	96.12	91.09		474	500	-5.2	15.0
1,3,5-Trinitrobenzene	Ave	75.31	69.07		459	500	-8.3	15.0
2-Nitrotoluene	Lin2		54.09		464	500	-7.3	15.0
4-Nitrotoluene	Lin2		54.09		464	500	-7.3	15.0
3-Nitrotoluene	Lin2		33.39		489	500	-2.2	15.0
3,5-Dinitroaniline	Ave	77.23	66.55		431	500	-13.8	15.0
RDX	Lin2		39.52		496	500	-0.8	15.0
2,4-Dinitrotoluene	Ave	81.56	76.40		468	500	-6.3	15.0
2,6-Dinitrotoluene	Ave	49.20	45.90		466	500	-6.7	15.0
2-Amino-4,6-dinitrotoluene	Ave	69.67	69.08		496	500	-0.8	15.0
4-Amino-2,6-dinitrotoluene	Ave	60.37	59.27		491	500	-1.8	15.0
2,4,6-Trinitrotoluene	Ave	77.65	74.89		482	500	-3.6	15.0
HMX	Ave	56.54	55.11		487	500	-2.5	15.0
Nitroglycerin	Ave	80.51	78.96		490	500	-1.9	15.0
Tetryl	Ave	116.0	110.5		476	500	-4.7	15.0
PETN	Ave	132.6	117.0		441	500	-11.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: ICV 320-42409/13 Calibration Date: 05/15/2014 22:47
 Instrument ID: LC12 Calib Start Date: 05/15/2014 12:57
 GC Column: Zorbax CN ID: 4.60 (mm) Calib End Date: 05/15/2014 20:36
 Lab File ID: O000013.D

Analyte	RT	RT WINDOW	
		FROM	TO
Picric acid	0.11	0.00	0.38
Nitrobenzene	22.58	22.35	22.85
Ethylene glycol dinitrate	24.08	23.84	24.34
1,3-Dinitrobenzene	25.77	25.52	26.02
1,3,5-Trinitrobenzene	28.57	28.32	28.82
2-Nitrotoluene	29.72	29.46	29.96
4-Nitrotoluene	29.72	29.46	29.96
3-Nitrotoluene	30.34	30.08	30.58
3,5-Dinitroaniline	32.08	31.81	32.31
RDX	32.73	32.45	32.95
2,4-Dinitrotoluene	33.57	33.31	33.81
2,6-Dinitrotoluene	34.57	34.30	34.80
2-Amino-4,6-dinitrotoluene	36.89	36.61	37.11
4-Amino-2,6-dinitrotoluene	37.38	37.11	37.61
2,4,6-Trinitrotoluene	41.00	40.73	41.23
HMX	42.73	42.46	42.96
Nitroglycerin	45.16	44.90	45.40
Tetryl	46.75	46.49	46.99
PETN	53.07	52.82	53.32

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000013.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 15-May-2014 22:47:37 ALS Bottle#: 12 Worklist Smp#: 13
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012486-013
 Operator ID: TQP Instrument ID: LC12
 Sublist:

Method: \\SACChrom\ChromData\LC12\20140515-12486.b\LC12_Conf_8330.m
 Limit Group: LC 8330A ICAL
 Last Update: 16-May-2014 11:58:45 Calib Date: 15-May-2014 20:36:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000011.D
 Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK036

First Level Reviewer: phant Date: 16-May-2014 08:54:17

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
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10 2,4,6-Trinitrophenol

2	0.114	0.126	-0.012	97H	1000.0	28.6	
1	0.114	0.126	-0.012	102H	1000.0	30.7	

5 Nitrobenzene

1	22.584	22.596	-0.012	21871H	500.0	490.4	
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3 Ethylene glycol dinitrate

2	24.081	24.090	-0.009	10014H	500.0	467.6	
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24 1,3-Dinitrobenzene

1	25.771	25.773	-0.002	45544H	500.0	473.8	
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27 1,3,5-Trinitrobenzene

1	28.571	28.570	0.001	34533H	500.0	458.6	
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16 o-Nitrotoluene

1	29.721	29.713	0.008	27044H	500.0	463.6	
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15 p-Nitrotoluene

1	29.721	29.713	0.008	27044H	500.0	463.6	
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8 m-Nitrotoluene

1	30.338	30.330	0.008	16694H	500.0	488.8	
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9 3,5-Dinitroaniline

1	32.078	32.056	0.022	33275H	500.0	430.9	
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19 RDX

1	32.728	32.703	0.025	19762H	500.0	496.0	
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23 2,4-Dinitrotoluene

1	33.574	33.556	0.018	38199H	500.0	468.3	
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12 2,6-Dinitrotoluene

1	34.571	34.553	0.018	22951H	500.0	466.4	
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6 2-Amino-4,6-dinitrotoluene

1	36.888	36.860	0.028	34541H	500.0	495.8	
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26 4-Amino-2,6-dinitrotoluene

1	37.384	37.356	0.028	29634H	500.0	490.9	
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Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000013.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
25	2,4,6-Trinitrotoluene						
1	41.001	40.976	0.025	37446H	500.0	482.2	
11	HMX						
1	42.731	42.713	0.018	27555H	500.0	487.3	
7	Nitroglycerin						
2	45.164	45.153	0.011	39482H	500.0	490.4	
20	Tetryl						
1	46.748	46.736	0.012	55266H	500.0	476.5	
21	PETN						M
2	53.071	53.066	0.005	58495H	500.0	441.1	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000013.D

Injection Date: 15-May-2014 22:47:37 Instrument ID: LC12

Lims ID: ICV

Operator ID: TQP

Worklist Smp#: 13

Client ID:

Injection Vol: 500.0 ul

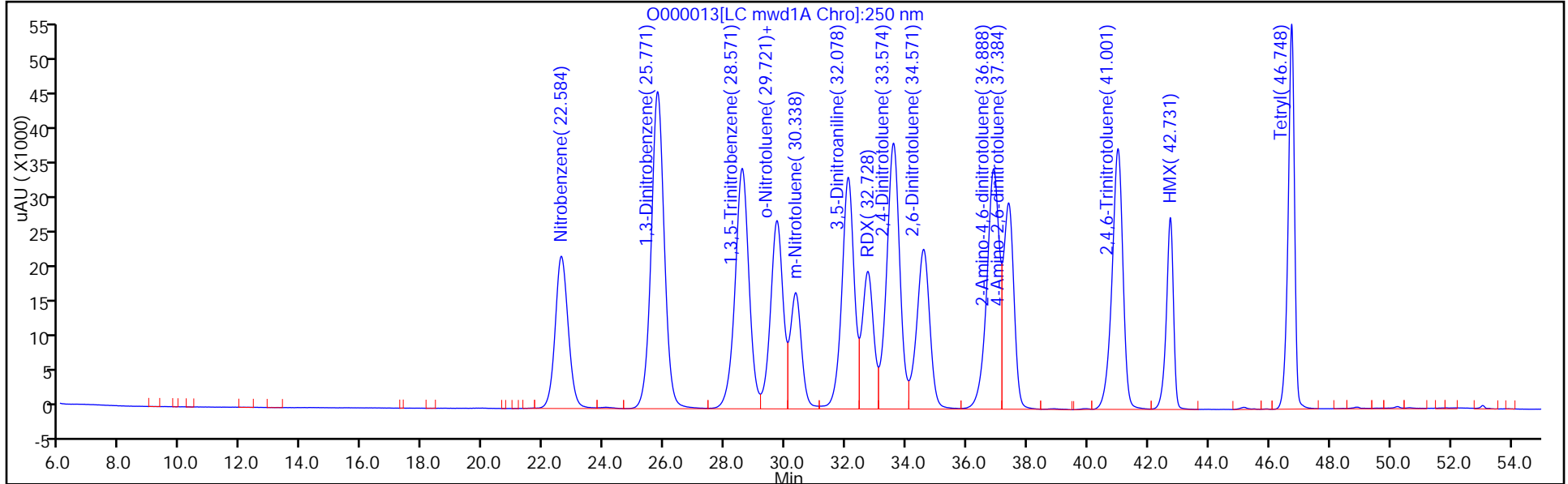
Dil. Factor: 1.0000

ALS Bottle#: 12

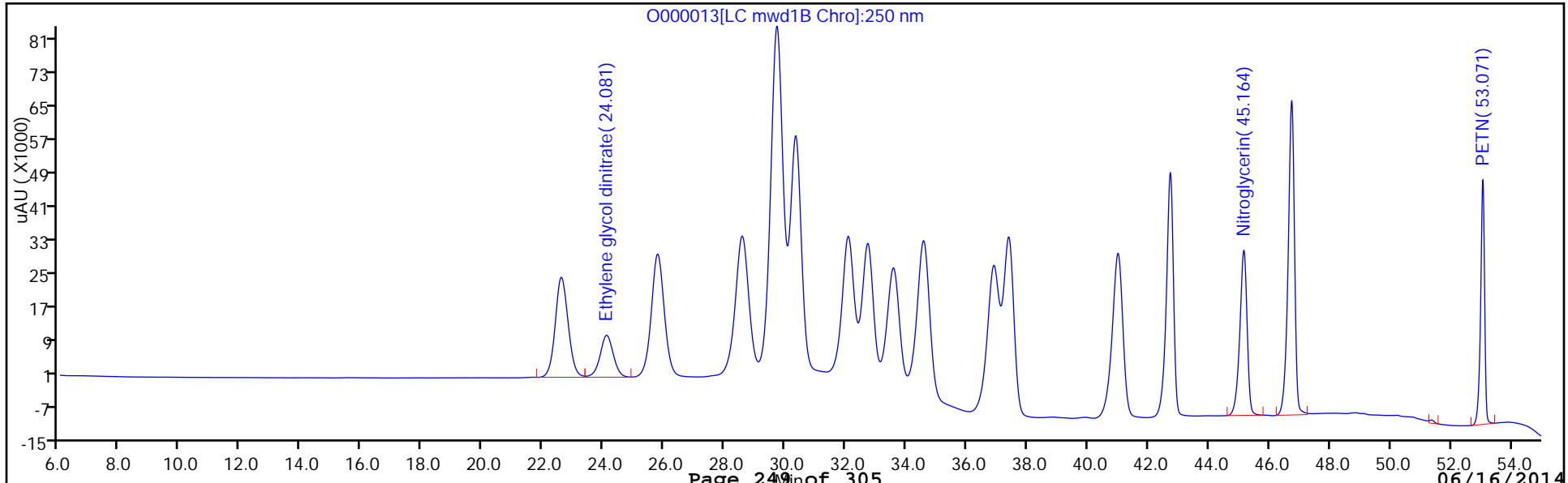
Method: LC12_Conf_8330

Limit Group: LC 8330A ICAL

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



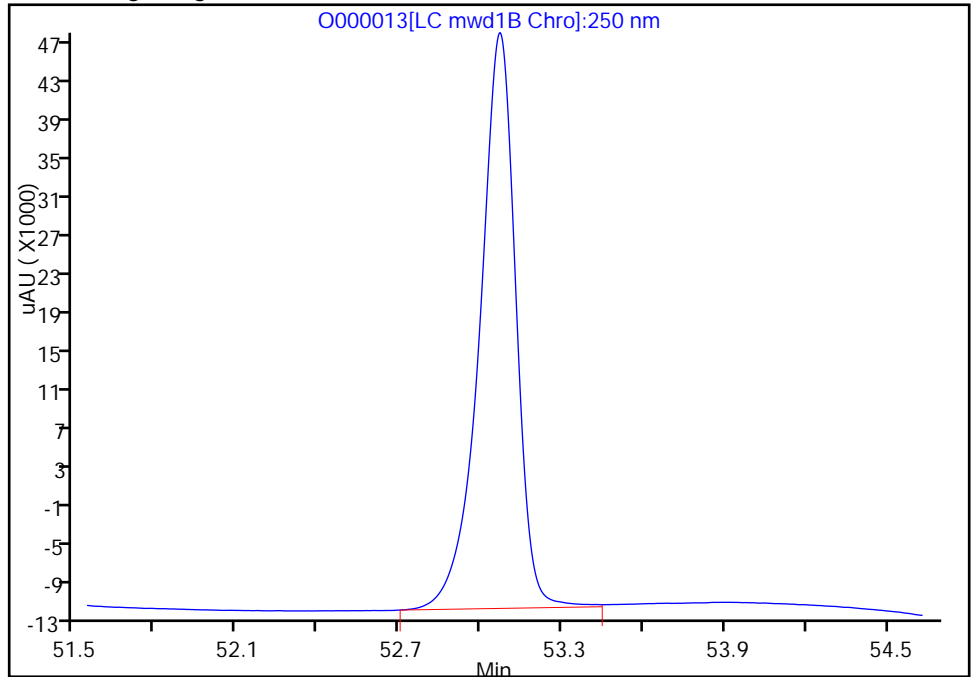
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000013.D
Injection Date: 15-May-2014 22:47:37 Instrument ID: LC12
Lims ID: ICV
Client ID:
Operator ID: TQP ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

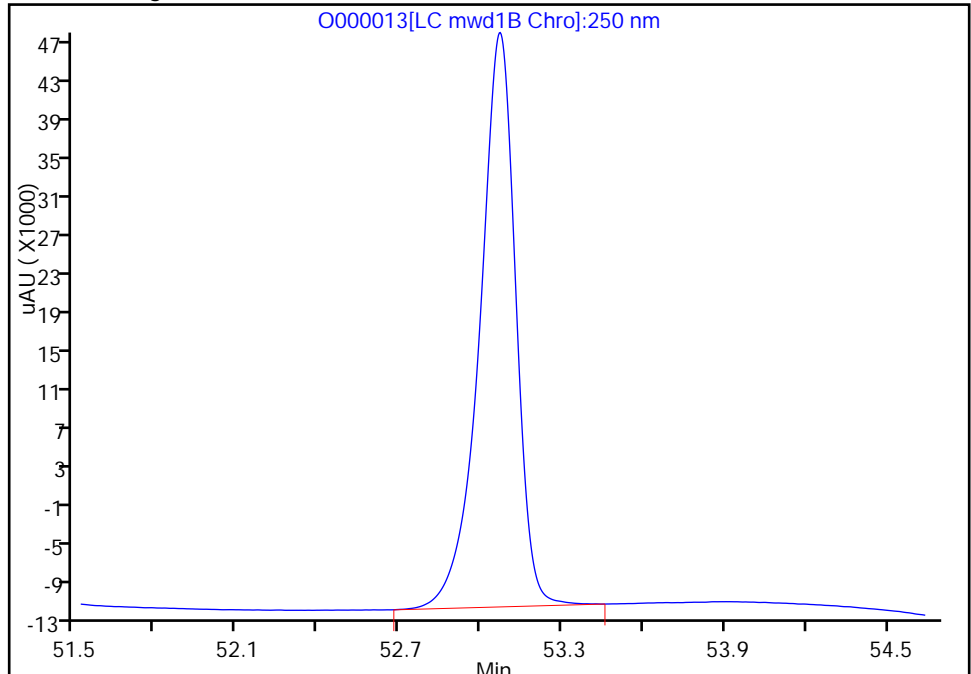
RT: 53.07
Response: 58582
Amount: 441.7845

Processing Integration Results



RT: 53.07
Response: 58495
Amount: 441.1284

Manual Integration Results



Reviewer: phant, 16-May-2014 09:22:25
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: LODV 320-42409/14 Calibration Date: 05/15/2014 23:53
 Instrument ID: LC12 Calib Start Date: 05/15/2014 12:57
 GC Column: Zorbax CN ID: 4.60 (mm) Calib End Date: 05/15/2014 20:36
 Lab File ID: O000014.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Picric acid	Ave	3.397	11.10		32.7	10.0	226.7	
Nitrobenzene	Lin2		56.80		5.36	5.00	7.1	
Ethylene glycol dinitrate	Ave	21.42	28.40		6.63	5.00	32.6	
1,3-Dinitrobenzene	Ave	96.12	111.8		5.82	5.00	16.3	
1,3,5-Trinitrobenzene	Ave	75.31	88.20		5.86	5.00	17.1	
2-Nitrotoluene	Lin2		73.60		4.66	5.00	-6.8	
4-Nitrotoluene	Lin2		73.60		4.66	5.00	-6.8	
3-Nitrotoluene	Lin2		44.60		4.22	5.00	-15.6	
3,5-Dinitroaniline	Ave	77.23	98.40		6.37	5.00	27.4	
RDX	Lin2		54.40		5.14	5.00	2.7	
2,4-Dinitrotoluene	Ave	81.56	94.60		5.80	5.00	16.0	
2,6-Dinitrotoluene	Ave	49.20	55.40		5.63	5.00	12.6	
2-Amino-4,6-dinitrotoluene	Ave	69.67	72.20		5.18	5.00	3.6	
4-Amino-2,6-dinitrotoluene	Ave	60.37	68.20		5.65	5.00	13.0	
2,4,6-Trinitrotoluene	Ave	77.65	89.60		5.77	5.00	15.4	
HMX	Ave	56.54	68.00		6.01	5.00	20.3	
Nitroglycerin	Ave	80.51	151.2		9.39	5.00	87.8	
Tetryl	Ave	116.0	136.0		5.86	5.00	17.3	
PETN	Ave	132.6	228.0		8.60	5.00	71.9	
3,4-Dinitrotoluene	Ave	47.49	59.60		6.28	5.00	25.5	

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: LODV 320-42409/14 Calibration Date: 05/15/2014 23:53
 Instrument ID: LC12 Calib Start Date: 05/15/2014 12:57
 GC Column: Zorbax CN ID: 4.60 (mm) Calib End Date: 05/15/2014 20:36
 Lab File ID: O000014.D

Analyte	RT	RT WINDOW	
		FROM	TO
Picric acid	0.08	0.00	0.38
Nitrobenzene	22.62	22.35	22.85
Ethylene glycol dinitrate	24.09	23.84	24.34
1,3-Dinitrobenzene	25.78	25.52	26.02
1,3,5-Trinitrobenzene	28.57	28.32	28.82
2-Nitrotoluene	29.75	29.46	29.96
4-Nitrotoluene	29.75	29.46	29.96
3-Nitrotoluene	30.36	30.08	30.58
3,5-Dinitroaniline	32.08	31.81	32.31
RDX	32.72	32.45	32.95
2,4-Dinitrotoluene	33.57	33.31	33.81
2,6-Dinitrotoluene	34.53	34.30	34.80
2-Amino-4,6-dinitrotoluene	36.88	36.61	37.11
4-Amino-2,6-dinitrotoluene	37.38	37.11	37.61
2,4,6-Trinitrotoluene	41.01	40.73	41.23
HMX	42.74	42.46	42.96
Nitroglycerin	45.17	44.90	45.40
Tetryl	46.75	46.49	46.99
PETN	53.07	52.82	53.32
3,4-Dinitrotoluene	38.89	38.61	39.11

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000014.D
 Lims ID: LODV 5-20ng/mL
 Client ID:
 Sample Type: LODV
 Inject. Date: 15-May-2014 23:53:08 ALS Bottle#: 13 Worklist Smp#: 14
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012486-014
 Operator ID: TQP Instrument ID: LC12
 Method: \\SACChrom\ChromData\LC12\20140515-12486.b\LC12_Conf_8330.m
 Limit Group: LC 8330A ICAL
 Last Update: 16-May-2014 11:58:45 Calib Date: 15-May-2014 20:36:33
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000011.D
 Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK036

First Level Reviewer: phant

Date: 16-May-2014 09:23:59

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
10 2,4,6-Trinitrophenol							
2	0.081	0.126	-0.045	111H	10.0	32.7	
1	0.081	0.126	-0.045	111H	10.0	33.5	
5 Nitrobenzene							
1	22.618	22.596	0.022	284H	5.00	5.36	
3 Ethylene glycol dinitrate							
2	24.091	24.090	0.001	142H	5.00	6.63	
24 1,3-Dinitrobenzene							
1	25.775	25.773	0.002	559H	5.00	5.82	
27 1,3,5-Trinitrobenzene							
1	28.565	28.570	-0.005	441H	5.00	5.86	
16 o-Nitrotoluene							
1	29.751	29.713	0.038	368H	5.00	4.66	
15 p-Nitrotoluene							
1	29.751	29.713	0.038	368H	5.00	4.66	
8 m-Nitrotoluene							
1	30.355	30.330	0.025	223H	5.00	4.22	
9 3,5-Dinitroaniline							
1	32.075	32.056	0.019	492H	5.00	6.37	
19 RDX							
1	32.715	32.703	0.012	272H	5.00	5.14	
23 2,4-Dinitrotoluene							
1	33.565	33.556	0.009	473H	5.00	5.80	
12 2,6-Dinitrotoluene							
1	34.525	34.553	-0.028	277H	5.00	5.63	
6 2-Amino-4,6-dinitrotoluene							
1	36.875	36.860	0.015	361H	5.00	5.18	
26 4-Amino-2,6-dinitrotoluene							
1	37.378	37.356	0.022	341H	5.00	5.65	

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000014.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
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\$ 30	3,4-Dinitrotoluene						
1	38.888	38.860	0.028	298H	5.00	6.28	
25	2,4,6-Trinitrotoluene						
1	41.005	40.976	0.029	448H	5.00	5.77	
11	HMX						
1	42.738	42.713	0.025	340H	5.00	6.01	
7	Nitroglycerin						
2	45.165	45.153	0.012	756H	5.00	9.39	M
20	Tetryl						
1	46.748	46.736	0.012	680H	5.00	5.86	
21	PETN						
2	53.071	53.066	0.005	1140H	5.00	8.60	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000014.D

Injection Date: 15-May-2014 23:53:08 Instrument ID: LC12

Lims ID: LODV 5-20ng/mL

Operator ID: TQP

Worklist Smp#: 14

Client ID:

Injection Vol: 500.0 ul

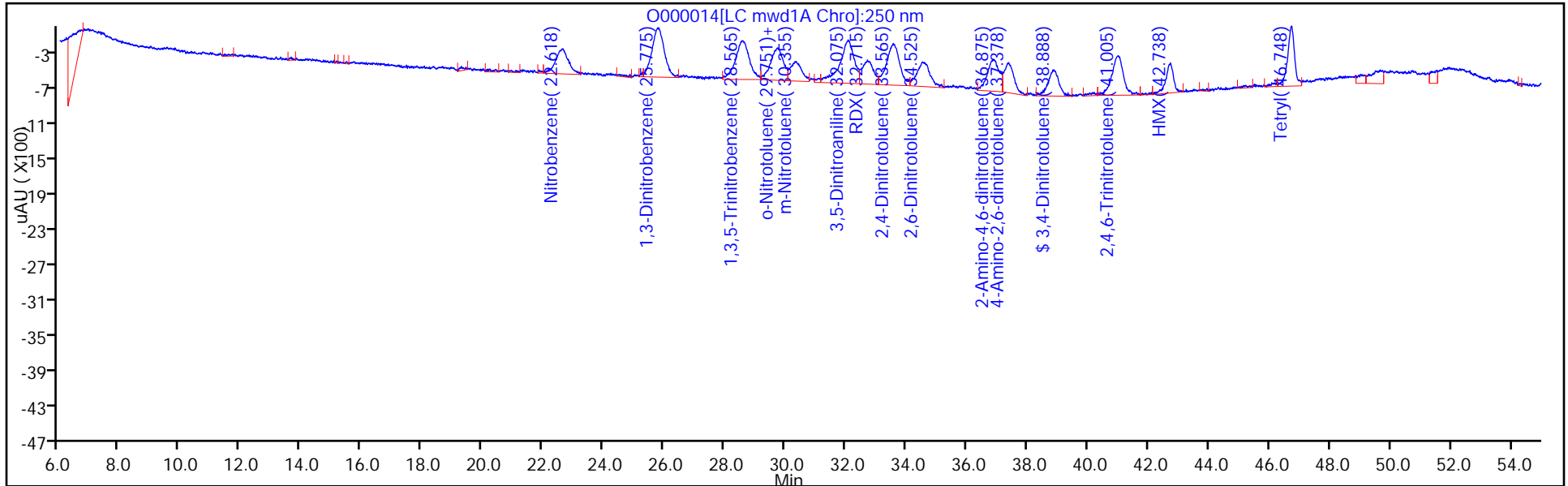
Dil. Factor: 1.0000

ALS Bottle#: 13

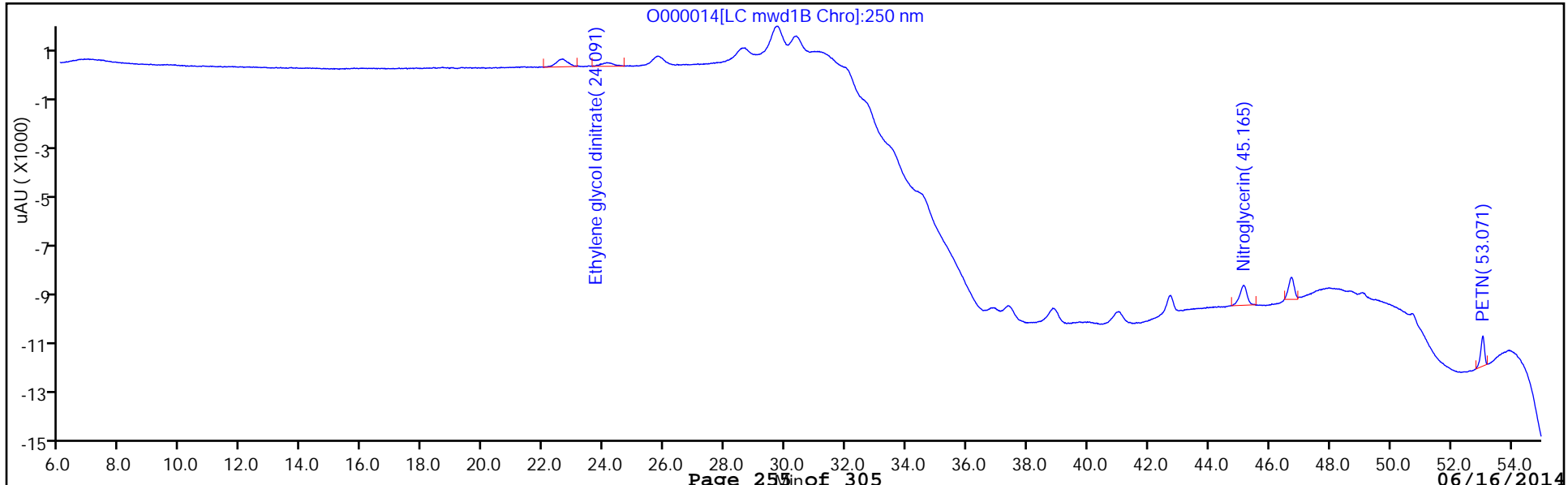
Method: LC12_Conf_8330

Limit Group: LC 8330A ICAL

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



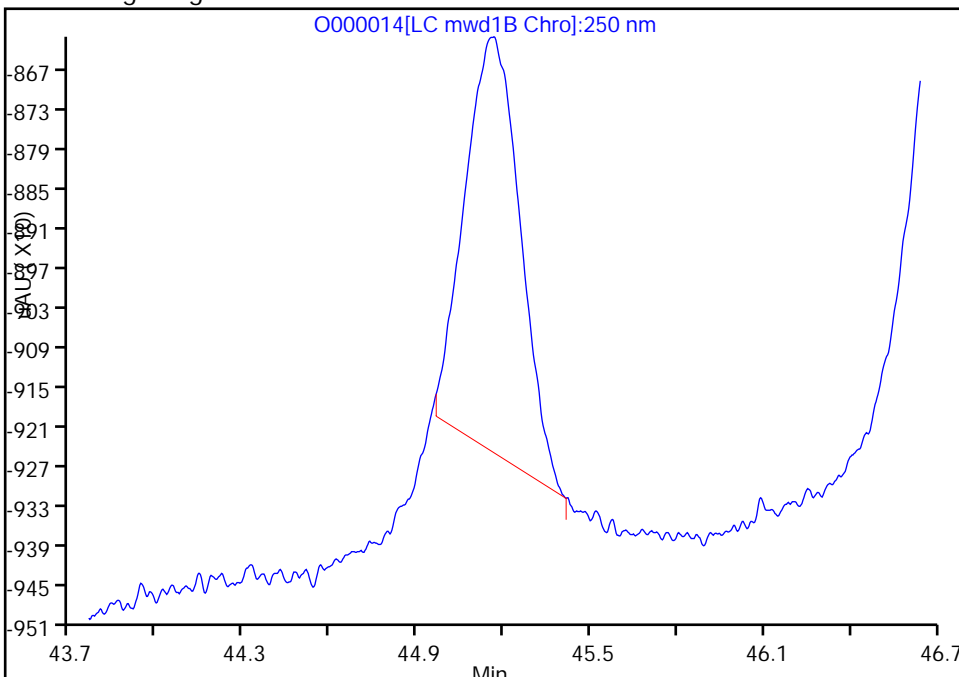
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000014.D
Injection Date: 15-May-2014 23:53:08 Instrument ID: LC12
Lims ID: LODV 5-20ng/mL
Client ID:
Operator ID: TQP ALS Bottle#: 13 Worklist Smp#: 14
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector: LC mwd1B, 358 nm

7 Nitroglycerin, CAS: 55-63-0

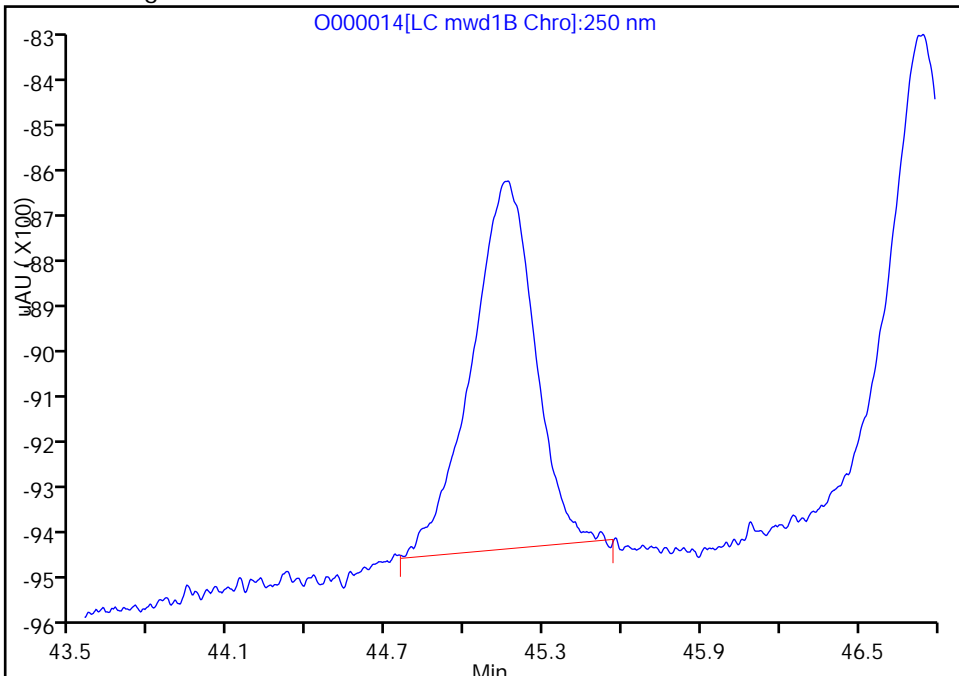
RT: 45.16
Response: 632
Amount: 7.850078

Processing Integration Results



RT: 45.16
Response: 756
Amount: 9.390284

Manual Integration Results



Reviewer: phant, 16-May-2014 09:23:59
Audit Action: Manually Integrated
Audit Reason: Baseline

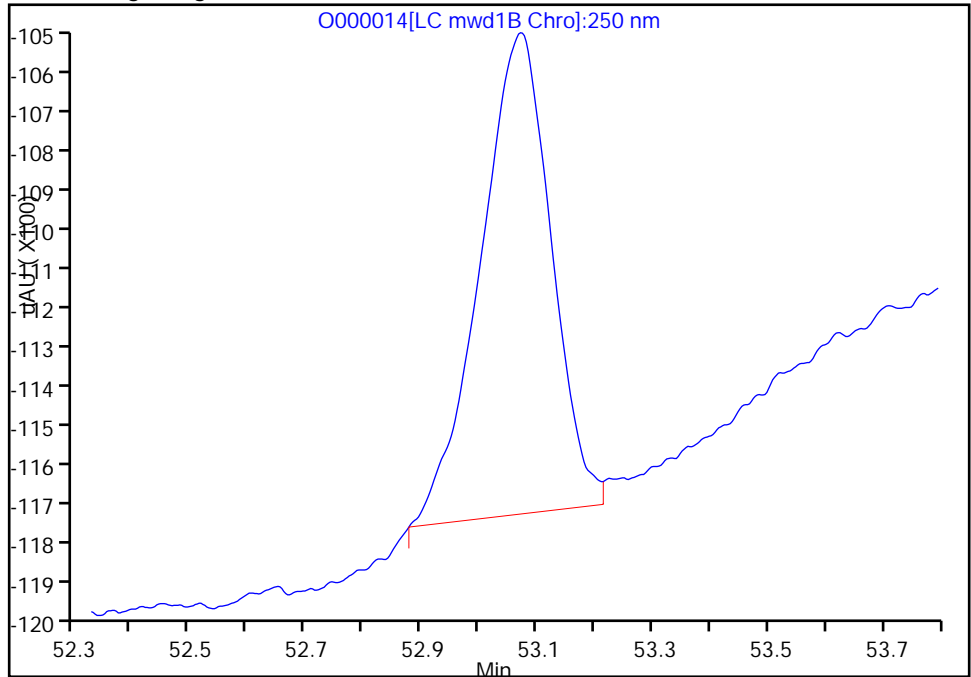
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140515-12486.b\O000014.D
Injection Date: 15-May-2014 23:53:08 Instrument ID: LC12
Lims ID: LODV 5-20ng/mL
Client ID:
Operator ID: TQP ALS Bottle#: 13 Worklist Smp#: 14
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector: LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

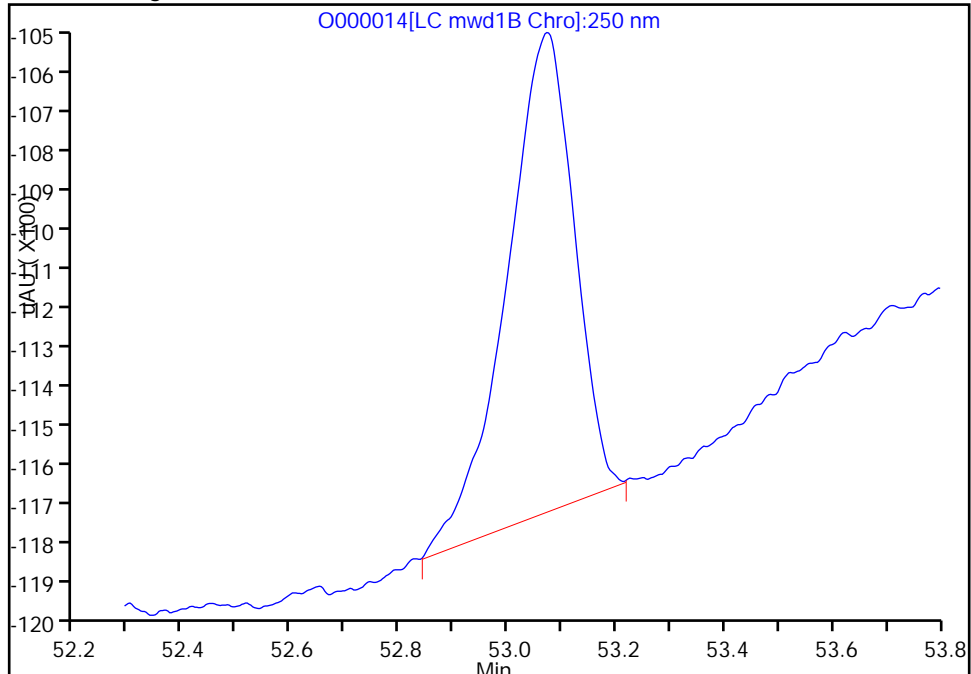
RT: 53.07
Response: 1143
Amount: 8.619706

Processing Integration Results



RT: 53.07
Response: 1140
Amount: 8.597082

Manual Integration Results



Reviewer: phant, 16-May-2014 09:23:59
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: CCV 320-43436/5 Calibration Date: 05/29/2014 19:35
 Instrument ID: LC12 Calib Start Date: 05/15/2014 12:57
 GC Column: Zorbax CN ID: 4.60 (mm) Calib End Date: 05/15/2014 20:36
 Lab File ID: ZC000005.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Picric acid	Ave	3.397	0.2040		30.0	500	-94.0*	15.0
Nitrobenzene	Lin2		48.00		215	200	7.3	15.0
Ethylene glycol dinitrate	Ave	21.42	21.49		201	200	0.3	15.0
1,3-Dinitrobenzene	Ave	96.12	98.83		206	200	2.8	15.0
1,3,5-Trinitrobenzene	Ave	75.31	76.44		203	200	1.5	15.0
2-Nitrotoluene	Lin2		62.08		212	200	6.0	15.0
4-Nitrotoluene	Lin2		62.08		212	200	6.0	15.0
3-Nitrotoluene	Lin2		36.02		210	200	4.8	15.0
3,5-Dinitroaniline	Ave	77.23	77.95		202	200	0.9	15.0
RDX	Lin2		42.32		211	200	5.7	15.0
2,4-Dinitrotoluene	Ave	81.56	83.76		205	200	2.7	15.0
2,6-Dinitrotoluene	Ave	49.20	49.55		201	200	0.7	15.0
2-Amino-4,6-dinitrotoluene	Ave	69.67	71.23		204	200	2.2	15.0
4-Amino-2,6-dinitrotoluene	Ave	60.37	61.02		202	200	1.1	15.0
2,4,6-Trinitrotoluene	Ave	77.65	78.90		203	200	1.6	15.0
HMX	Ave	56.54	57.75		204	200	2.1	15.0
Nitroglycerin	Ave	80.51	83.87		208	200	4.2	15.0
Tetryl	Ave	116.0	119.3		206	200	2.9	15.0
PETN	Ave	132.6	141.3		213	200	6.5	15.0
3,4-Dinitrotoluene	Ave	47.49	47.44		200	200	-0.1	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: CCV 320-43436/5 Calibration Date: 05/29/2014 19:35
 Instrument ID: LC12 Calib Start Date: 05/15/2014 12:57
 GC Column: Zorbax CN ID: 4.60 (mm) Calib End Date: 05/15/2014 20:36
 Lab File ID: ZC000005.D

Analyte	RT	RT WINDOW	
		FROM	TO
Picric acid	0.10	0.00	0.35
Nitrobenzene	22.34	22.09	22.59
Ethylene glycol dinitrate	23.77	23.52	24.02
1,3-Dinitrobenzene	25.48	25.23	25.73
1,3,5-Trinitrobenzene	28.19	27.94	28.44
2-Nitrotoluene	29.43	29.18	29.68
4-Nitrotoluene	29.43	29.18	29.68
3-Nitrotoluene	30.05	29.80	30.30
3,5-Dinitroaniline	31.79	31.54	32.04
RDX	32.43	32.18	32.68
2,4-Dinitrotoluene	33.25	33.00	33.50
2,6-Dinitrotoluene	34.26	34.01	34.51
2-Amino-4,6-dinitrotoluene	36.60	36.35	36.85
4-Amino-2,6-dinitrotoluene	37.13	36.88	37.38
2,4,6-Trinitrotoluene	40.72	40.47	40.97
HMX	42.57	42.32	42.82
Nitroglycerin	44.98	44.73	45.23
Tetryl	46.60	46.35	46.85
PETN	52.98	52.73	53.23
3,4-Dinitrotoluene	38.64	38.39	38.89

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20140529-12796.b\ZC000005.D
 Lims ID: CCV 06
 Client ID:
 Sample Type: CCVRT
 Inject. Date: 29-May-2014 19:35:24 ALS Bottle#: 4 Worklist Smp#: 5
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012796-005
 Operator ID: TQP Instrument ID: LC12
 Sublist: chrom-LC12_Conf_8330*sub1
 Method: \\SACChrom\ChromData\LC12\20140529-12796.b\LC12_Conf_8330.m
 Limit Group: LC 8330A ICAL
 Last Update: 02-Jun-2014 14:21:13 Calib Date: 27-May-2014 20:26:54
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC12\20140527-12737.b\ZA000008.D
 Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK029

First Level Reviewer: phant Date: 02-Jun-2014 14:21:13

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
10 2,4,6-Trinitrophenol							
2	0.100	0.100	0.000	102H	500.0	30.0	
1	0.100	0.100	0.000	105H	500.0	31.6	
5 Nitrobenzene							
1	22.336	22.336	0.000	9599H	200.0	214.7	
3 Ethylene glycol dinitrate							
2	23.773	23.773	0.000	4297H	200.0	200.6	
24 1,3-Dinitrobenzene							
1	25.483	25.483	0.000	19765H	200.0	205.6	
27 1,3,5-Trinitrobenzene							
1	28.193	28.193	0.000	15288H	200.0	203.0	
16 o-Nitrotoluene							
1	29.433	29.433	0.000	12416H	200.0	211.9	
15 p-Nitrotoluene							
1	29.433	29.433	0.000	12416H	200.0	211.9	
8 m-Nitrotoluene							
1	30.046	30.046	0.000	7204H	200.0	209.6	
9 3,5-Dinitroaniline							
1	31.793	31.793	0.000	15590H	200.0	201.9	
19 RDX							
1	32.430	32.430	0.000	8463H	200.0	211.4	
23 2,4-Dinitrotoluene							
1	33.246	33.246	0.000	16752H	200.0	205.4	
12 2,6-Dinitrotoluene							
1	34.256	34.256	0.000	9909H	200.0	201.4	
6 2-Amino-4,6-dinitrotoluene							
1	36.603	36.603	0.000	14246H	200.0	204.5	
26 4-Amino-2,6-dinitrotoluene							
1	37.126	37.126	0.000	12203H	200.0	203.5	

Data File: \\SACChrom\ChromData\LC12\20140529-12796.b\ZC000005.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
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\$ 30	3,4-Dinitrotoluene						
1	38.640	38.640	0.000	9488H	200.0	199.8	
25	2,4,6-Trinitrotoluene						
1	40.720	40.720	0.000	15780H	200.0	203.2	
11	HMX						
1	42.570	42.570	0.000	11549H	200.0	204.3	
7	Nitroglycerin						
2	44.983	44.983	0.000	16774H	200.0	208.4	
20	Tetryl						
1	46.603	46.603	0.000	23869H	200.0	205.8	
21	PETN						
2	52.976	52.976	0.000	28255H	200.0	213.1	

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140529-12796.b\ZC000005.D

Injection Date: 29-May-2014 19:35:24

Instrument ID: LC12

Operator ID: TQP

Lims ID: CCV 06

Worklist Smp#: 5

Client ID:

Injection Vol: 500.0 ul

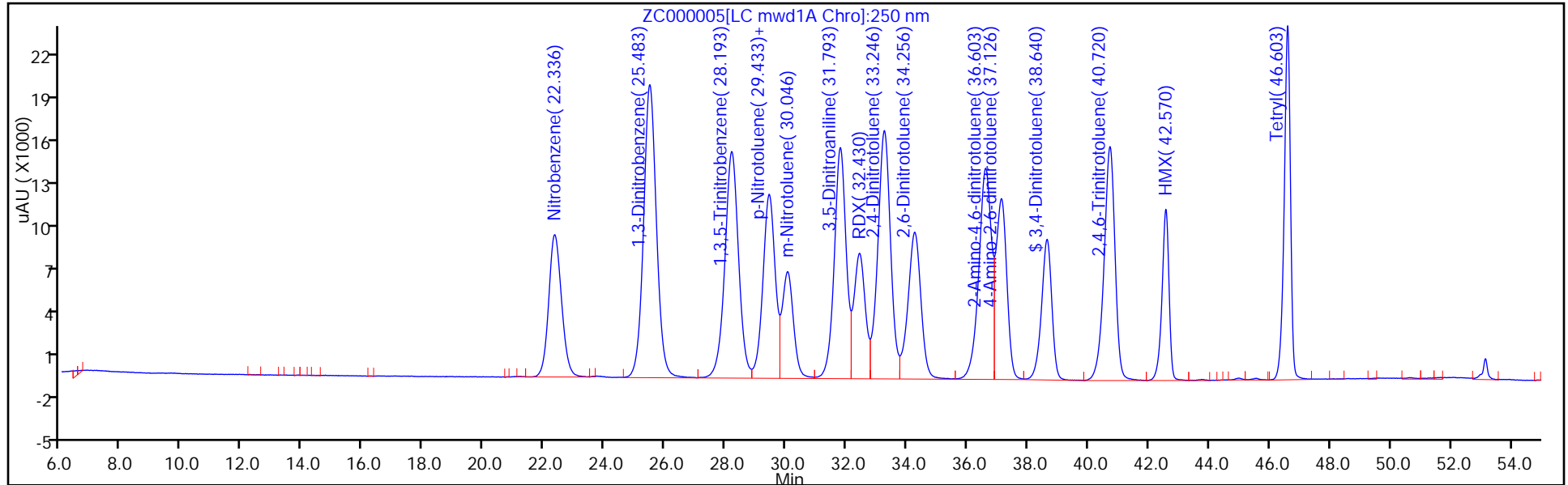
Dil. Factor: 1.0000

ALS Bottle#: 4

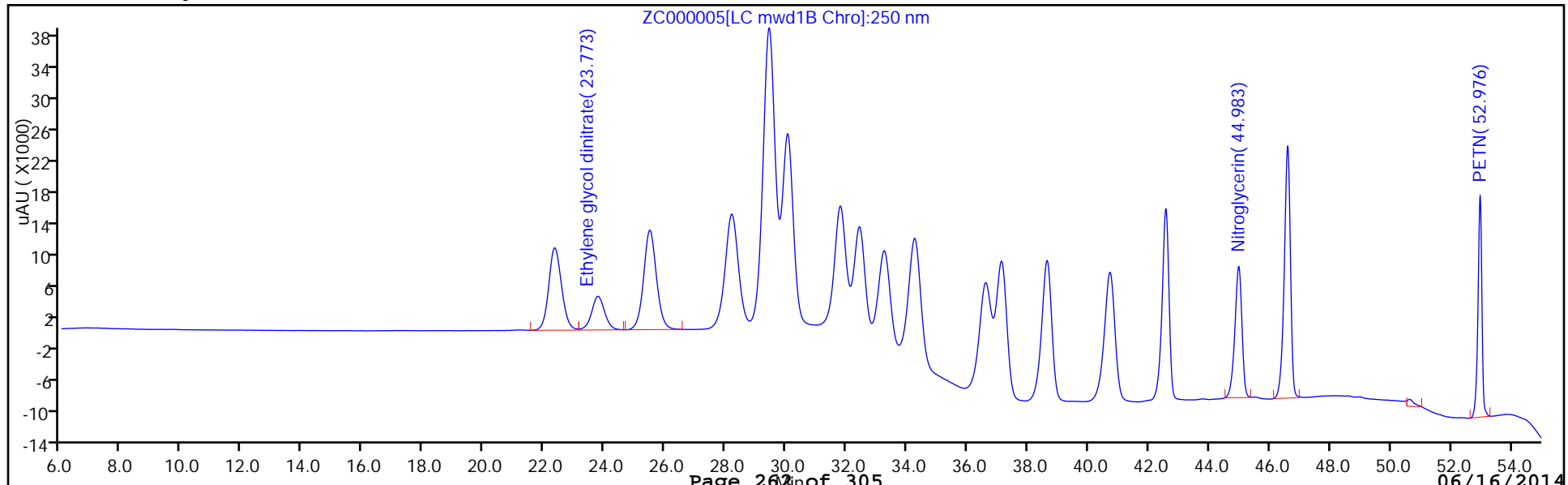
Method: LC12_Conf_8330

Limit Group: LC 8330A ICAL

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: CCV 320-43436/12 Calibration Date: 05/30/2014 03:14
 Instrument ID: LC12 Calib Start Date: 05/15/2014 12:57
 GC Column: Zorbax CN ID: 4.60 (mm) Calib End Date: 05/15/2014 20:36
 Lab File ID: ZC000012.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Picric acid	Ave	3.397	0.5000		29.4	200	-85.3*	15.0
Nitrobenzene	Lin2		49.44		110	100	10.1	15.0
Ethylene glycol dinitrate	Ave	21.42	21.98		103	100	2.6	15.0
1,3-Dinitrobenzene	Ave	96.12	100.8		105	100	4.9	15.0
1,3,5-Trinitrobenzene	Ave	75.31	77.71		103	100	3.2	15.0
2-Nitrotoluene	Lin2		63.25		107	100	7.1	15.0
4-Nitrotoluene	Lin2		63.25		107	100	7.1	15.0
3-Nitrotoluene	Lin2		36.67		106	100	5.5	15.0
3,5-Dinitroaniline	Ave	77.23	79.61		103	100	3.1	15.0
RDX	Lin2		43.31		107	100	7.4	15.0
2,4-Dinitrotoluene	Ave	81.56	85.08		104	100	4.3	15.0
2,6-Dinitrotoluene	Ave	49.20	49.99		102	100	1.6	15.0
2-Amino-4,6-dinitrotoluene	Ave	69.67	71.95		103	100	3.3	15.0
4-Amino-2,6-dinitrotoluene	Ave	60.37	61.63		102	100	2.1	15.0
2,4,6-Trinitrotoluene	Ave	77.65	79.21		102	100	2.0	15.0
HMX	Ave	56.54	58.23		103	100	3.0	15.0
Nitroglycerin	Ave	80.51	83.66		104	100	3.9	15.0
Tetryl	Ave	116.0	120.2		104	100	3.6	15.0
PETN	Ave	132.6	141.2		106	100	6.5	15.0
3,4-Dinitrotoluene	Ave	47.49	47.91		101	100	0.9	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Lab Sample ID: CCV 320-43436/12 Calibration Date: 05/30/2014 03:14
 Instrument ID: LC12 Calib Start Date: 05/15/2014 12:57
 GC Column: Zorbax CN ID: 4.60 (mm) Calib End Date: 05/15/2014 20:36
 Lab File ID: ZC000012.D

Analyte	RT	RT WINDOW	
		FROM	TO
Picric acid	0.20	0.00	0.45
Nitrobenzene	22.35	22.10	22.60
Ethylene glycol dinitrate	23.77	23.52	24.02
1,3-Dinitrobenzene	25.49	25.24	25.74
1,3,5-Trinitrobenzene	28.20	27.95	28.45
2-Nitrotoluene	29.44	29.19	29.69
4-Nitrotoluene	29.44	29.19	29.69
3-Nitrotoluene	30.05	29.80	30.30
3,5-Dinitroaniline	31.80	31.55	32.05
RDX	32.44	32.19	32.69
2,4-Dinitrotoluene	33.25	33.00	33.50
2,6-Dinitrotoluene	34.26	34.01	34.51
2-Amino-4,6-dinitrotoluene	36.61	36.36	36.86
4-Amino-2,6-dinitrotoluene	37.12	36.87	37.37
2,4,6-Trinitrotoluene	40.71	40.46	40.96
HMX	42.57	42.32	42.82
Nitroglycerin	44.98	44.73	45.23
Tetryl	46.60	46.35	46.85
PETN	52.97	52.72	53.22
3,4-Dinitrotoluene	38.62	38.37	38.87

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20140529-12796.b\ZC000012.D
 Lims ID: CCV 05
 Client ID:
 Sample Type: CCVRT
 Inject. Date: 30-May-2014 03:14:27 ALS Bottle#: 5 Worklist Smp#: 12
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012796-012
 Operator ID: TQP Instrument ID: LC12
 Sublist: chrom-LC12_Conf_8330*sub1
 Method: \\SACChrom\ChromData\LC12\20140529-12796.b\LC12_Conf_8330.m
 Limit Group: LC 8330A ICAL
 Last Update: 02-Jun-2014 14:21:31 Calib Date: 27-May-2014 20:26:54
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC12\20140527-12737.b\ZA000008.D
 Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK029

First Level Reviewer: phant Date: 02-Jun-2014 14:21:31

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
10 2,4,6-Trinitrophenol							
2	0.199	0.199	0.000	100H	200.0	29.4	
1	0.126	0.126	0.000	84H	200.0	25.3	
5 Nitrobenzene							
1	22.346	22.346	0.000	4944H	100.0	110.1	
3 Ethylene glycol dinitrate							
2	23.766	23.766	0.000	2198H	100.0	102.6	
24 1,3-Dinitrobenzene							
1	25.489	25.489	0.000	10081H	100.0	104.9	
27 1,3,5-Trinitrobenzene							
1	28.202	28.202	0.000	7771H	100.0	103.2	
16 o-Nitrotoluene							
1	29.439	29.439	0.000	6325H	100.0	107.1	
15 p-Nitrotoluene							
1	29.439	29.439	0.000	6325H	100.0	107.1	
8 m-Nitrotoluene							
1	30.052	30.052	0.000	3667H	100.0	105.5	
9 3,5-Dinitroaniline							
1	31.799	31.799	0.000	7961H	100.0	103.1	
19 RDX							
1	32.439	32.439	0.000	4331H	100.0	107.4	
23 2,4-Dinitrotoluene							
1	33.252	33.252	0.000	8508H	100.0	104.3	
12 2,6-Dinitrotoluene							
1	34.259	34.259	0.000	4999H	100.0	101.6	
6 2-Amino-4,6-dinitrotoluene							
1	36.606	36.606	0.000	7195H	100.0	103.3	
26 4-Amino-2,6-dinitrotoluene							
1	37.122	37.122	0.000	6163H	100.0	100.5	

Data File: \\SACChrom\ChromData\LC12\20140529-12796.b\ZC000012.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

\$ 30	3,4-Dinitrotoluene						
1	38.619	38.619	0.000	4791H	100.0	100.9	
25	2,4,6-Trinitrotoluene						
1	40.712	40.712	0.000	7921H	100.0	102.0	
11	HMX						
1	42.566	42.566	0.000	5823H	100.0	103.0	
7	Nitroglycerin						
2	44.976	44.976	0.000	8366H	100.0	103.9	
20	Tetryl						
1	46.596	46.596	0.000	12020H	100.0	103.6	
21	PETN						
2	52.972	52.972	0.000	14118H	100.0	106.5	

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140529-12796.b\ZC000012.D

Injection Date: 30-May-2014 03:14:27

Instrument ID: LC12

Operator ID: TQP

Lims ID: CCV 05

Worklist Smp#: 12

Client ID:

Injection Vol: 500.0 ul

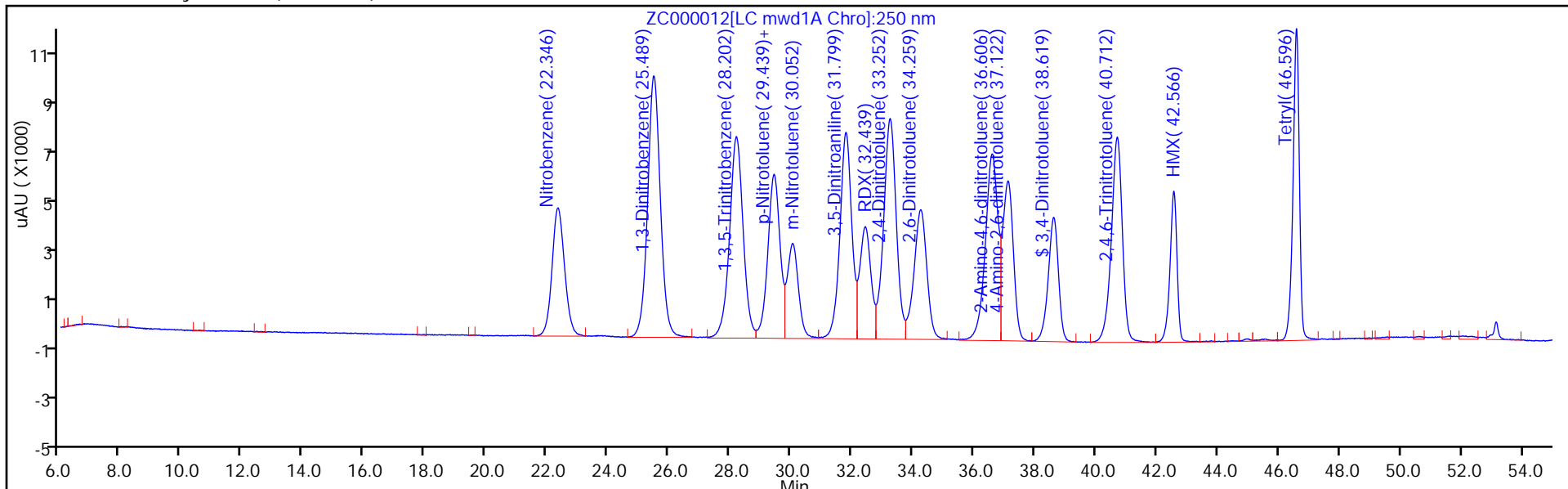
Dil. Factor: 1.0000

ALS Bottle#: 5

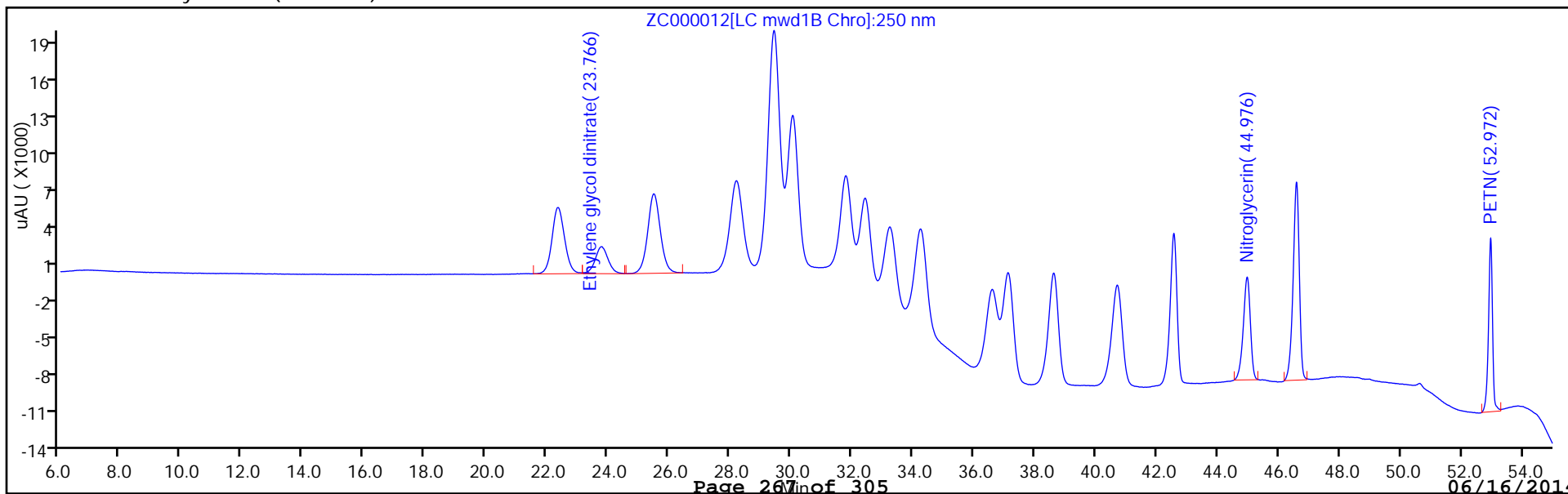
Method: LC12_Conf_8330

Limit Group: LC 8330A ICAL

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 320-43333/1-A
 Matrix: Water Lab File ID: ZC000006.D
 Analysis Method: 8330A Date Collected: _____
 Extraction Method: 8330-Prep Date Extracted: 05/28/2014 14:06
 Sample wt/vol: 1000.00 (mL) Date Analyzed: 05/29/2014 20:40
 Con. Extract Vol.: 20.00 (mL) Dilution Factor: 1
 Injection Volume: 500 (uL) GC Column: Zorbax CN ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 43436 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	101		79-111

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20140529-12796.b\ZC000006.D
 Lims ID: MB 320-43333/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 29-May-2014 20:40:58 ALS Bottle#: 11 Worklist Smp#: 6
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012796-006
 Operator ID: TQP Instrument ID: LC12
 Method: \\SACChrom\ChromData\LC12\20140529-12796.b\LC12_Conf_8330.m
 Limit Group: LC 8330A ICAL
 Last Update: 02-Jun-2014 14:21:13 Calib Date: 27-May-2014 20:26:54
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC12\20140527-12737.b\ZA000008.D
 Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK029

First Level Reviewer: phant Date: 02-Jun-2014 14:21:16

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

23	2,4-Dinitrotoluene						M
1	33.385	33.246	0.139	85H		1.04	M
\$ 30	3,4-Dinitrotoluene						
1	38.642	38.640	0.002	6022H	125.0	126.8	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140529-12796.b\ZC000006.D

Injection Date: 29-May-2014 20:40:58

Instrument ID: LC12

Operator ID: TQP

Lims ID: MB 320-43333/1-A

Worklist Smp#: 6

Client ID:

Injection Vol: 500.0 ul

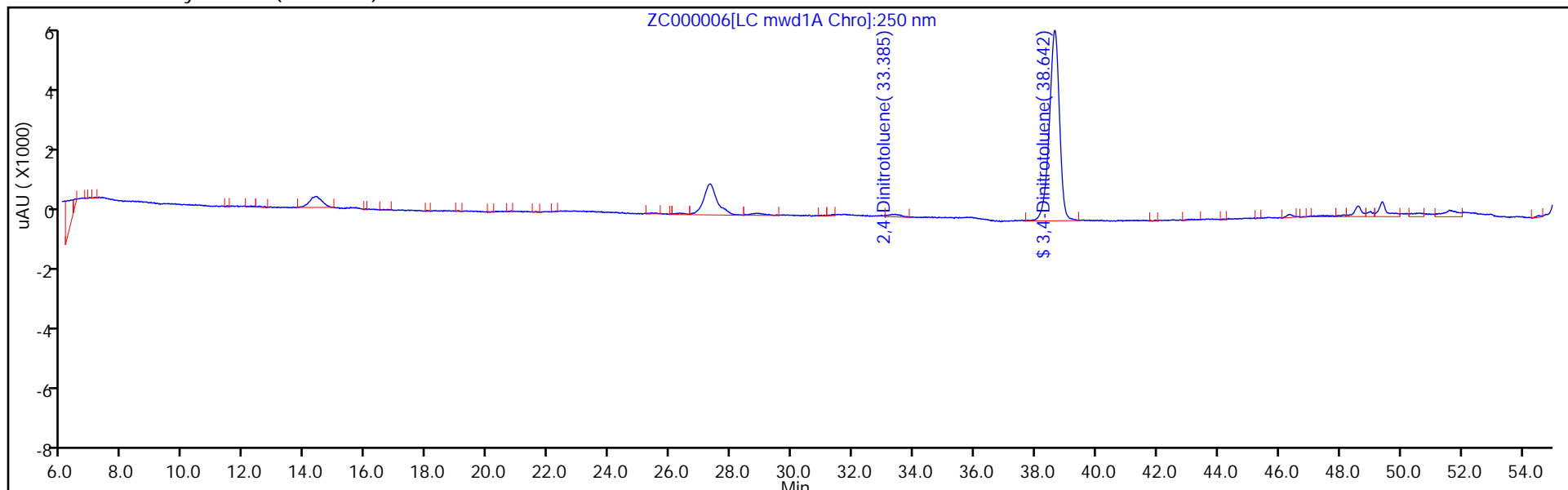
Dil. Factor: 1.0000

ALS Bottle#: 11

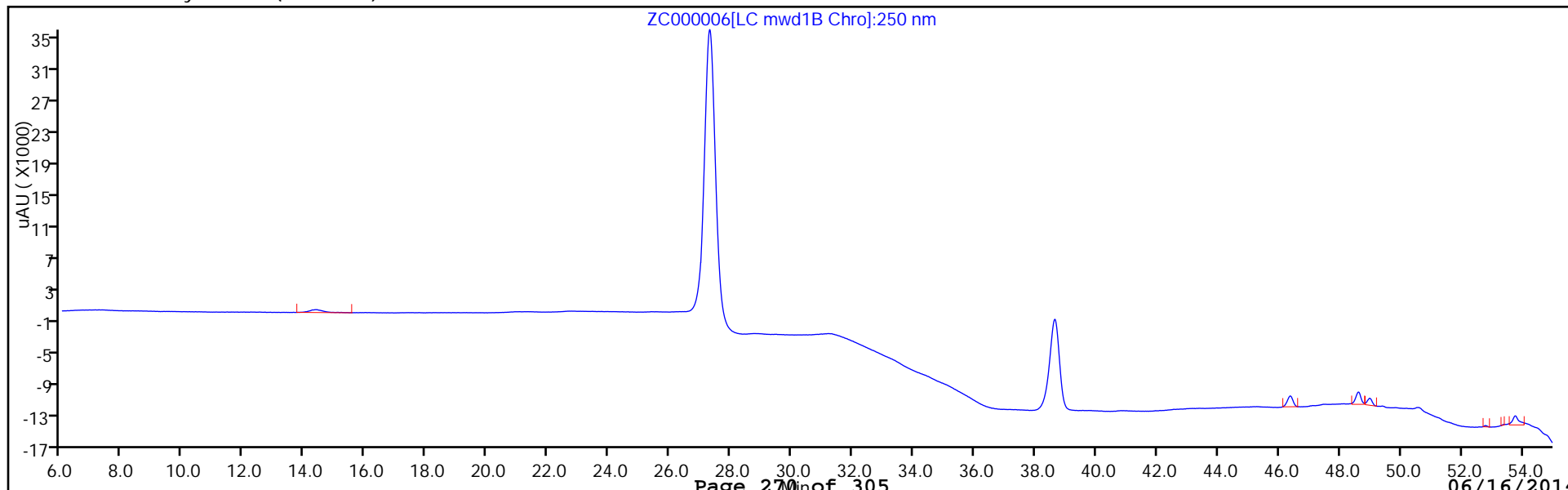
Method: LC12_Conf_8330

Limit Group: LC 8330A ICAL

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



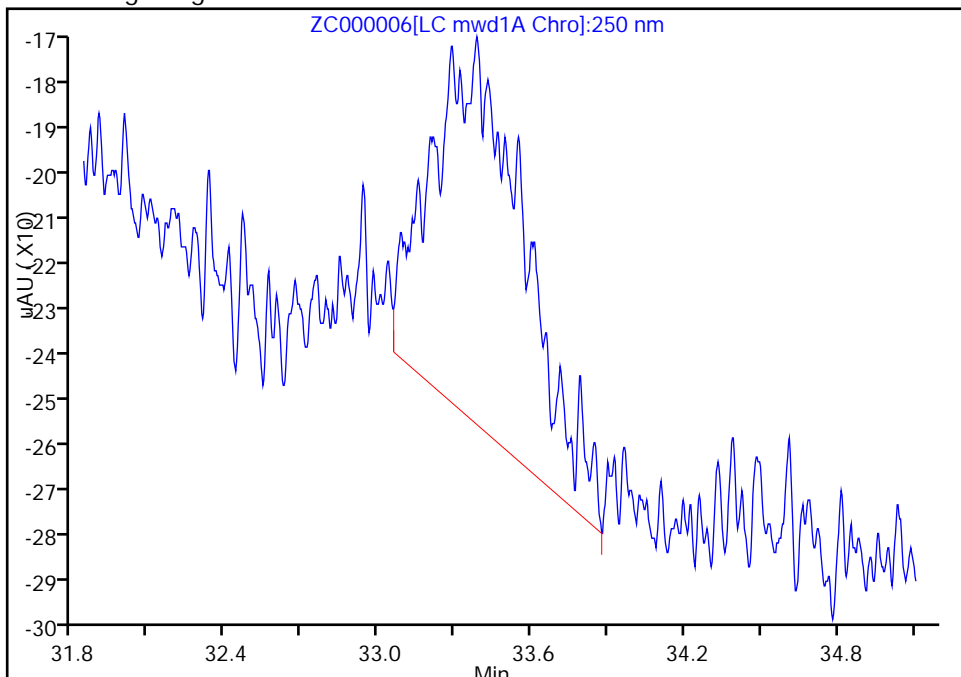
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20140529-12796.b\ZC000006.D
Injection Date: 29-May-2014 20:40:58 Instrument ID: LC12
Lims ID: MB 320-43333/1-A
Client ID:
Operator ID: TQP ALS Bottle#: 11 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC12_Conf_8330 Limit Group: LC 8330A ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector: LC mwd1A, 250 nm

23 2,4-Dinitrotoluene, CAS: 121-14-2

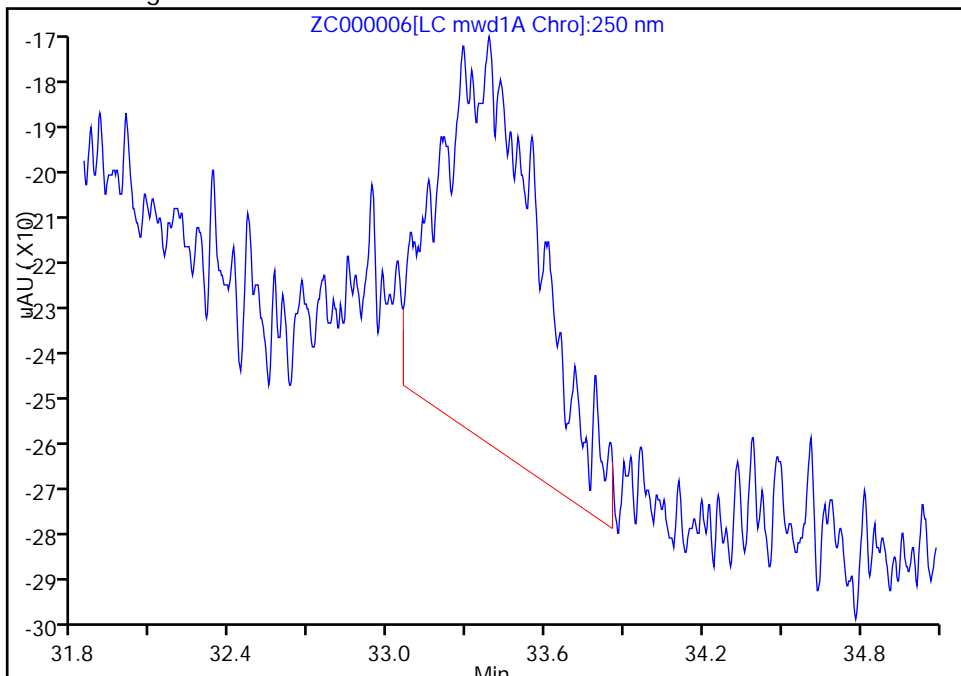
RT: 33.29
Response: 74
Amount: 0.907296

Processing Integration Results



RT: 33.39
Response: 85
Amount: 1.042165

Manual Integration Results



Reviewer: phant, 02-Jun-2014 14:20:25
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 320-43333/1-A
 Matrix: Water Lab File ID: ZD000008.D
 Analysis Method: 8330A Date Collected: _____
 Extraction Method: 8330-Prep Date Extracted: 05/28/2014 14:06
 Sample wt/vol: 1000.00 (mL) Date Analyzed: 05/30/2014 22:54
 Con. Extract Vol.: 20.00 (mL) Dilution Factor: 1
 Injection Volume: 500 (uL) GC Column: Synergi C18 ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 43521 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	ND		0.10	
606-20-2	2,6-Dinitrotoluene	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	92		79-111

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000008.D
 Lims ID: MB 320-43333/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 30-May-2014 22:54:24 ALS Bottle#: 14 Worklist Smp#: 8
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012820-008
 Operator ID: TQP Instrument ID: LC11
 Method: \\SACChrom\ChromData\LC11\20140530-12820.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 02-Jun-2014 14:07:28 Calib Date: 30-May-2014 05:16:15
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000020.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK029

First Level Reviewer: phant Date: 02-Jun-2014 14:08:03

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
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10 2,4,6-Trinitrophenol							
2	26.184	26.100	0.084	1292H		7.55	
1	26.184	26.100	0.084	973H		8.16	
\$ 30 3,4-Dinitrotoluene							
1	32.664	32.663	0.001	9077H	125.0	115.2	
2	32.664	32.663	0.001	17536H	125.0	118.4	

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000008.D

Injection Date: 30-May-2014 22:54:24

Instrument ID: LC11

Operator ID: TQP

Lims ID: MB 320-43333/1-A

Worklist Smp#: 8

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

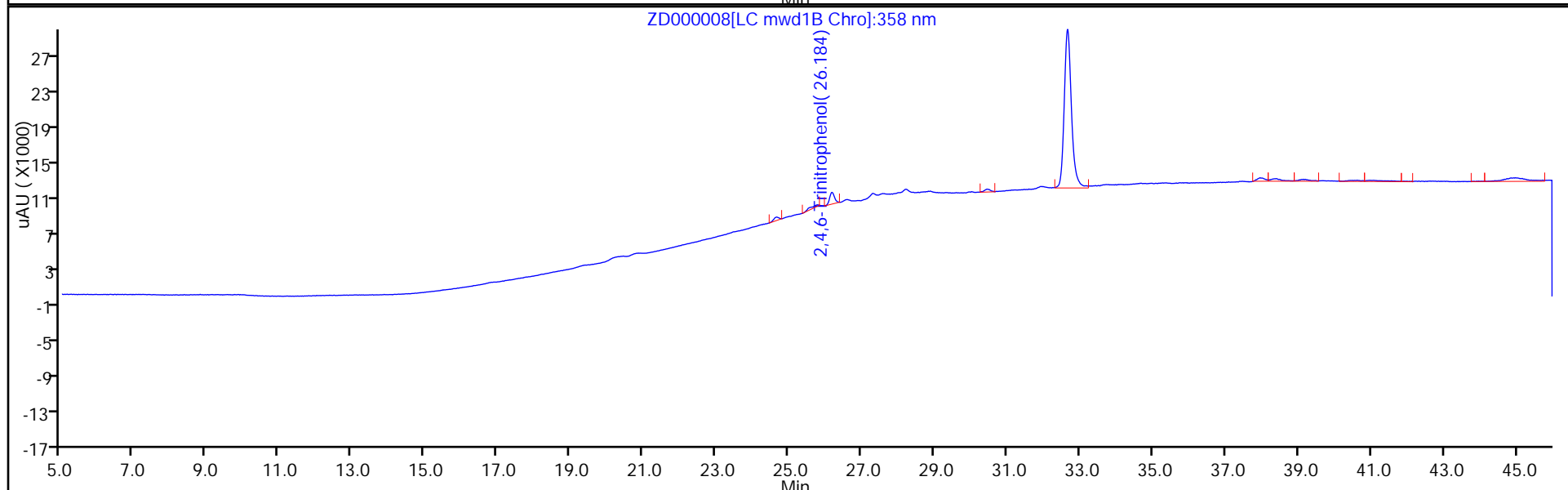
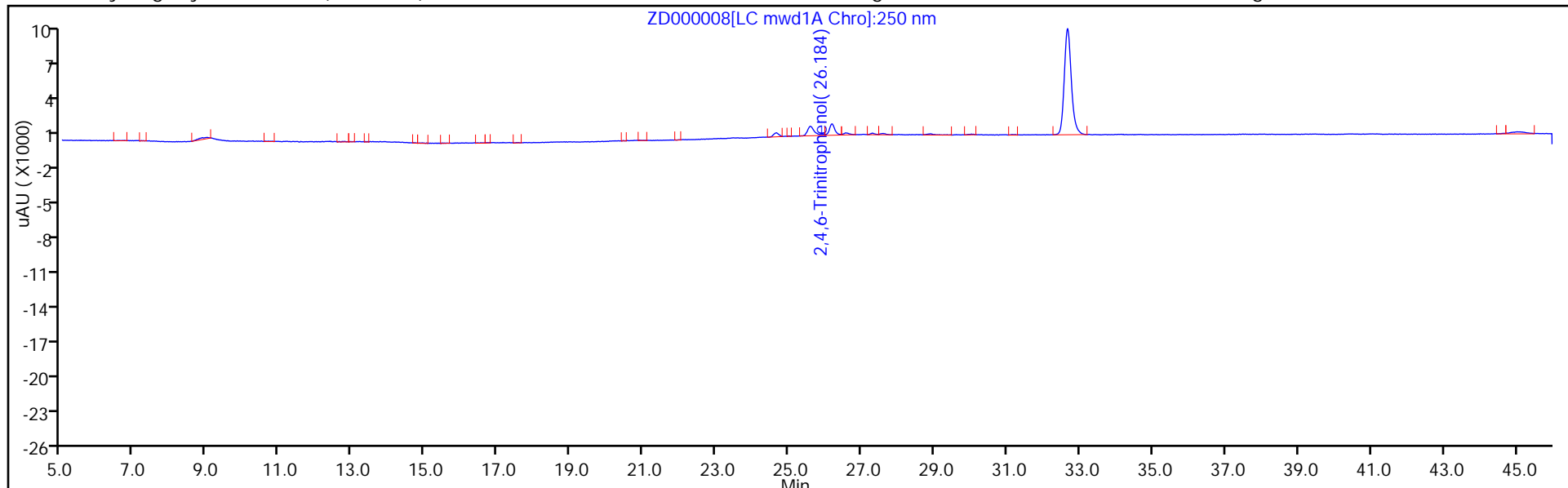
ALS Bottle#: 14

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 320-43333/2-A
 Matrix: Water Lab File ID: ZD000009.D
 Analysis Method: 8330A Date Collected: _____
 Extraction Method: 8330-Prep Date Extracted: 05/28/2014 14:06
 Sample wt/vol: 1000.00 (mL) Date Analyzed: 05/30/2014 23:50
 Con. Extract Vol.: 20.00 (mL) Dilution Factor: 1
 Injection Volume: 500 (uL) GC Column: Synergi C18 ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 43521 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	0.987		0.10	
606-20-2	2,6-Dinitrotoluene	0.979		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	91		79-111

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000009.D
 Lims ID: LCS 320-43333/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 30-May-2014 23:50:56 ALS Bottle#: 15 Worklist Smp#: 9
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012820-009
 Operator ID: TQP Instrument ID: LC11
 Method: \\SACChrom\ChromData\LC11\20140530-12820.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 02-Jun-2014 14:07:28 Calib Date: 30-May-2014 05:16:15
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000020.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK029

First Level Reviewer: phant Date: 02-Jun-2014 14:08:05

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	20.593	20.583	0.010	4735H	50.0	51.8	
19 RDX							
1	23.833	23.826	0.007	4810H	50.0	53.2	
27 1,3,5-Trinitrobenzene							
1	25.756	25.753	0.003	10906H	50.0	49.9	
24 1,3-Dinitrobenzene							
1	28.373	28.373	0.000	11297H	50.0	50.7	
9 3,5-Dinitroaniline							
1	29.493	29.493	0.000	7373H	50.0	48.4	M
5 Nitrobenzene							
1	29.873	29.873	0.000	5124H	50.0	50.8	M
20 Tetryl							
1	30.326	30.333	-0.007	6172H	50.0	48.5	M
7 Nitroglycerin							
2	30.763	30.770	-0.007	23163H	250.0	244.6	
25 2,4,6-Trinitrotoluene							
1	31.473	31.480	-0.007	6291H	50.0	48.1	
26 4-Amino-2,6-dinitrotoluene							
1	32.363	32.366	-0.003	4999H	50.0	48.3	
\$ 30 3,4-Dinitrotoluene							
1	32.656	32.663	-0.007	8934H	125.0	113.4	
2	32.656	32.663	-0.007	17067H	125.0	115.2	
6 2-Amino-4,6-dinitrotoluene							
1	32.986	32.993	-0.007	6001H	50.0	49.8	
12 2,6-Dinitrotoluene							
1	34.140	34.146	-0.006	3965H	50.0	49.0	
23 2,4-Dinitrotoluene							
1	34.486	34.493	-0.007	6697H	50.0	49.3	

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000009.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
16 o-Nitrotoluene							
1	37.209	37.209	0.000	2856H	50.0	48.1	
15 p-Nitrotoluene							
1	38.399	38.409	-0.010	3532H	50.0	48.7	
8 m-Nitrotoluene							
1	39.846	39.853	-0.007	3215H	50.0	48.0	
21 PETN							
2	40.909	40.919	-0.010	12925H	250.0	241.2	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000009.D

Injection Date: 30-May-2014 23:50:56 Instrument ID: LC11

Lims ID: LCS 320-43333/2-A

Operator ID: TQP

Worklist Smp#: 9

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

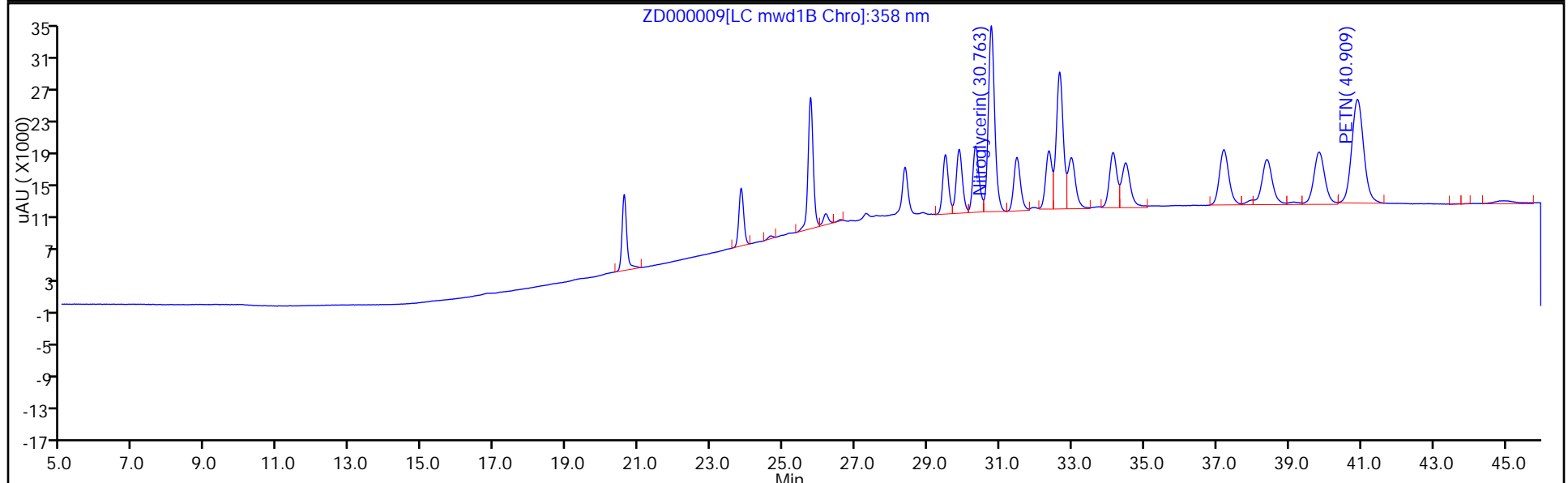
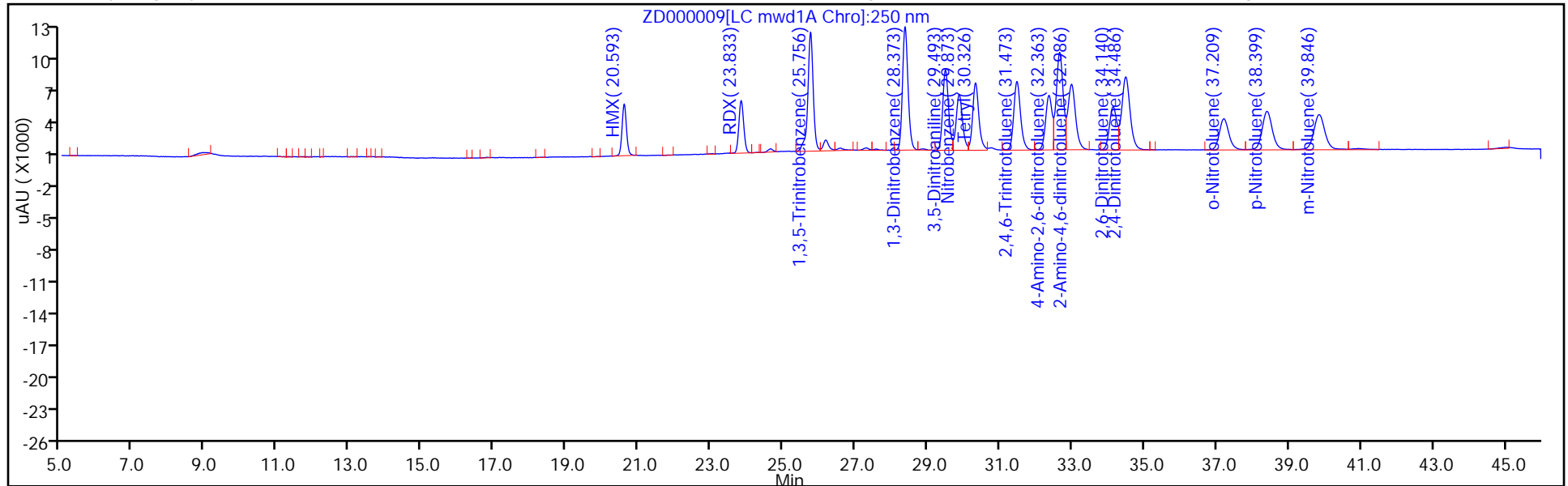
ALS Bottle#: 15

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 320-43333/3-A
 Matrix: Water Lab File ID: ZD000010.D
 Analysis Method: 8330A Date Collected: _____
 Extraction Method: 8330-Prep Date Extracted: 05/28/2014 14:06
 Sample wt/vol: 1000.00 (mL) Date Analyzed: 05/31/2014 00:47
 Con. Extract Vol.: 20.00 (mL) Dilution Factor: 1
 Injection Volume: 500 (uL) GC Column: Synergi C18 ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 43521 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	1.05		0.10	
606-20-2	2,6-Dinitrotoluene	1.05		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	95		79-111

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000010.D
 Lims ID: LCSD 320-43333/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 31-May-2014 00:47:36 ALS Bottle#: 16 Worklist Smp#: 10
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012820-010
 Operator ID: TQP Instrument ID: LC11
 Method: \\SACChrom\ChromData\LC11\20140530-12820.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 02-Jun-2014 14:07:28 Calib Date: 30-May-2014 05:16:15
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000020.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK029

First Level Reviewer: phant Date: 02-Jun-2014 14:08:08

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	20.603	20.583	0.020	5060H	50.0	55.4	
19 RDX							
1	23.837	23.826	0.011	5095H	50.0	56.3	
27 1,3,5-Trinitrobenzene							
1	25.757	25.753	0.004	11576H	50.0	52.9	
24 1,3-Dinitrobenzene							
1	28.373	28.373	0.000	12056H	50.0	54.1	
9 3,5-Dinitroaniline							
1	29.493	29.493	0.000	7837H	50.0	51.4	M
5 Nitrobenzene							
1	29.873	29.873	0.000	5475H	50.0	54.2	M
20 Tetryl							
1	30.330	30.333	-0.003	6586H	50.0	51.8	M
7 Nitroglycerin							
2	30.767	30.770	-0.003	24172H	250.0	255.2	
25 2,4,6-Trinitrotoluene							
1	31.473	31.480	-0.007	6711H	50.0	51.3	
26 4-Amino-2,6-dinitrotoluene							
1	32.360	32.366	-0.006	5309H	50.0	51.3	
\$ 30 3,4-Dinitrotoluene							
1	32.660	32.663	-0.003	9314H	125.0	118.2	
2	32.660	32.663	-0.003	17806H	125.0	120.2	
6 2-Amino-4,6-dinitrotoluene							
1	32.987	32.993	-0.006	6392H	50.0	53.1	
12 2,6-Dinitrotoluene							
1	34.143	34.146	-0.003	4236H	50.0	52.3	
23 2,4-Dinitrotoluene							
1	34.493	34.493	0.000	7116H	50.0	52.4	

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000010.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
16 o-Nitrotoluene							
1	37.213	37.209	0.004	3041H	50.0	51.2	
15 p-Nitrotoluene							
1	38.410	38.409	0.001	3762H	50.0	51.8	
8 m-Nitrotoluene							
1	39.853	39.853	0.000	3449H	50.0	51.5	
21 PETN							
2	40.916	40.919	-0.003	13415H	250.0	250.3	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000010.D

Injection Date: 31-May-2014 00:47:36 Instrument ID: LC11

Lims ID: LCSD 320-43333/3-A

Operator ID: TQP

Worklist Smp#: 10

Client ID:

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

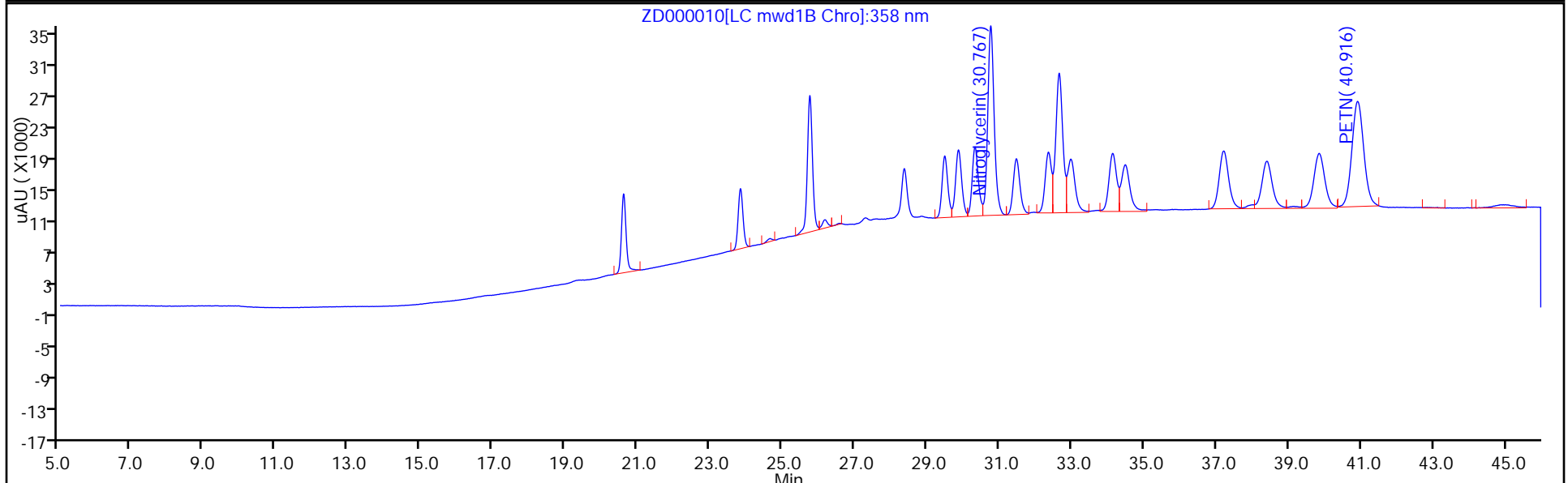
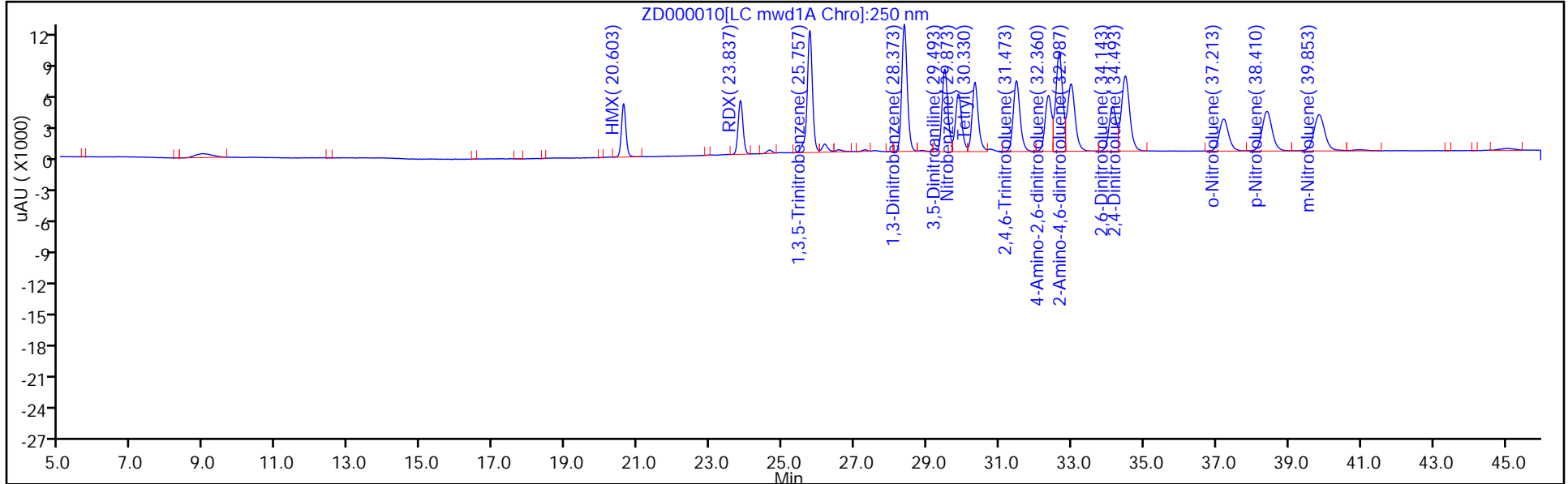
ALS Bottle#: 16

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1
 SDG No.: _____
 Client Sample ID: GW-DA-1-052314 MS Lab Sample ID: 320-7661-1 MS
 Matrix: Water Lab File ID: ZD000012.D
 Analysis Method: 8330A Date Collected: 05/23/2014 11:30
 Extraction Method: 8330-Prep Date Extracted: 05/28/2014 14:06
 Sample wt/vol: 989.1(mL) Date Analyzed: 05/31/2014 02:40
 Con. Extract Vol.: 20.00(mL) Dilution Factor: 1
 Injection Volume: 500(uL) GC Column: Synergi C18 ID: 4.6(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 43521 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	1.14		0.10	
606-20-2	2,6-Dinitrotoluene	1.49		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	109		79-111

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000012.D
 Lims ID: 320-7661-A-1-B MS
 Client ID: GW-DA-1-052314
 Sample Type: MS
 Inject. Date: 31-May-2014 02:40:52 ALS Bottle#: 18 Worklist Smp#: 12
 Injection Vol: 500.0 ul Dil. Factor: 1.0000
 Sample Info: 320-0012820-012
 Operator ID: TQP Instrument ID: LC11
 Method: \\SACChrom\ChromData\LC11\20140530-12820.b\8330 Metab LC11.m
 Limit Group: LC 8330A ICAL
 Last Update: 02-Jun-2014 14:07:28 Calib Date: 30-May-2014 05:16:15
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SACChrom\ChromData\LC11\20140529-12781.b\ZC000020.D
 Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
 Process Host: XAWRK029

First Level Reviewer: phant Date: 02-Jun-2014 14:08:13

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	20.591	20.583	0.008	5037H	50.0	55.2	
19 RDX							
1	23.837	23.826	0.011	5082H	50.0	56.2	
27 1,3,5-Trinitrobenzene							
1	25.757	25.753	0.004	11579H	50.0	53.0	
24 1,3-Dinitrobenzene							
1	28.377	28.373	0.004	12072H	50.0	54.2	
29 2-Nitrophenol							
1	28.854	28.929	-0.075	165H		3.72	
9 3,5-Dinitroaniline							
1	29.497	29.493	0.004	7878H	50.0	51.7	M
5 Nitrobenzene							
1	29.877	29.873	0.004	5535H	50.0	54.8	M
20 Tetryl							
1	30.334	30.333	0.001	6542H	50.0	51.4	M
7 Nitroglycerin							
2	30.767	30.770	-0.003	24177H	250.0	255.3	
25 2,4,6-Trinitrotoluene							
1	31.481	31.480	0.001	6703H	50.0	51.3	
26 4-Amino-2,6-dinitrotoluene							
1	32.367	32.366	0.001	5683H	50.0	54.9	
\$ 30 3,4-Dinitrotoluene							
1	32.664	32.663	0.001	10692H	125.0	135.7	
2	32.664	32.663	0.001	20483H	125.0	138.3	
6 2-Amino-4,6-dinitrotoluene							
1	32.991	32.993	-0.002	6443H	50.0	53.5	
12 2,6-Dinitrotoluene							
1	34.134	34.146	-0.012	5980H	50.0	73.8	

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000012.D

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23	2,4-Dinitrotoluene						
1	34.494	34.493	0.001	7635H	50.0	56.2	
16	o-Nitrotoluene						
1	37.217	37.209	0.008	3069H	50.0	51.6	
15	p-Nitrotoluene						
1	38.411	38.409	0.002	3747H	50.0	51.6	
8	m-Nitrotoluene						
1	39.861	39.853	0.008	3490H	50.0	52.1	
21	PETN						
2	40.921	40.919	0.002	12985H	250.0	242.3	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC11\20140530-12820.b\ZD000012.D

Injection Date: 31-May-2014 02:40:52

Instrument ID: LC11

Operator ID: TQP

Lims ID: 320-7661-A-1-B MS

Worklist Smp#: 12

Client ID: GW-DA-1-052314

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

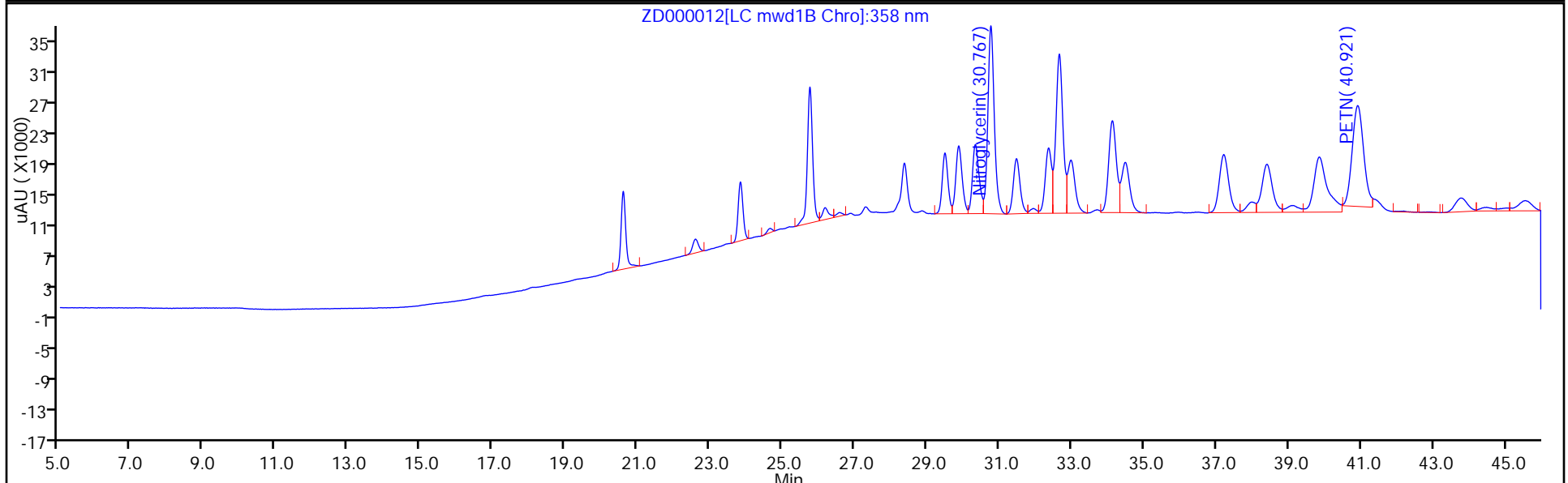
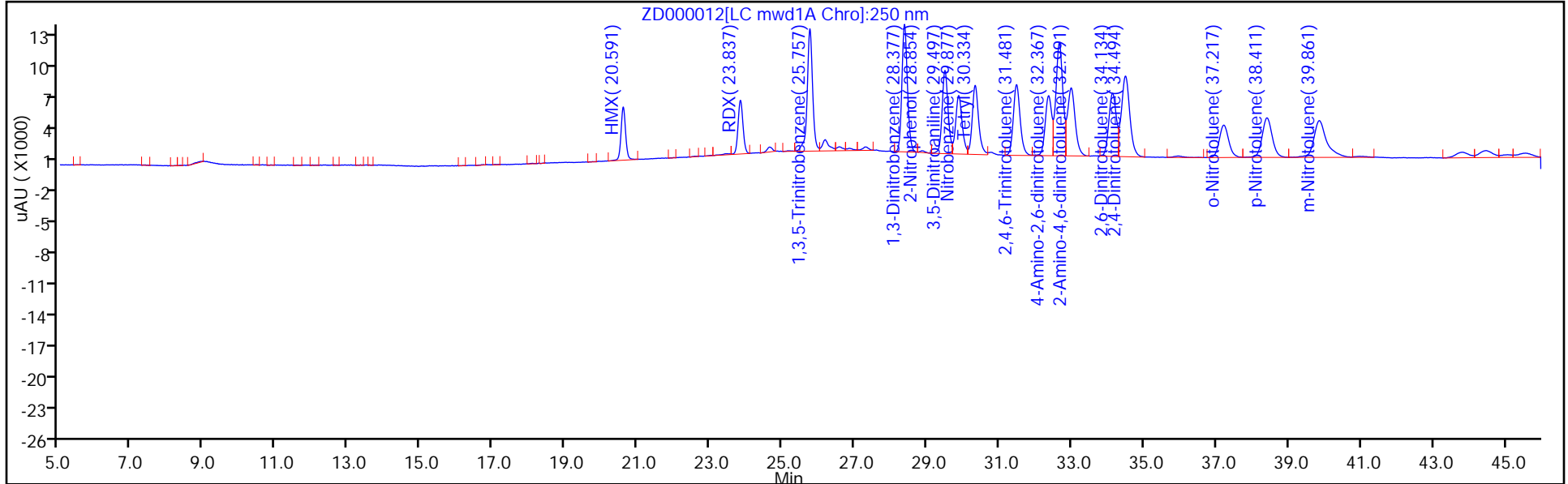
ALS Bottle#: 18

Method: 8330 Metab LC11

Limit Group: LC 8330A ICAL

Column: Synergi Hydro-RP C18 (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1

SDG No.: _____

Instrument ID: LC12 Start Date: 05/15/2014 11:51

Analysis Batch Number: 42409 End Date: 05/15/2014 23:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/15/2014 11:51	1		Zorbax CN 4.6 (mm)
STD01 320-42409/4 IC		05/15/2014 12:57	1	O000004.D	Zorbax CN 4.6 (mm)
STD02 320-42409/5 IC		05/15/2014 14:03	1	O000005.D	Zorbax CN 4.6 (mm)
STD03 320-42409/6 IC		05/15/2014 15:08	1	O000006.D	Zorbax CN 4.6 (mm)
STD04 320-42409/7 IC		05/15/2014 16:14	1	O000007.D	Zorbax CN 4.6 (mm)
STD05 320-42409/8 IC		05/15/2014 17:19	1	O000008.D	Zorbax CN 4.6 (mm)
STD06 320-42409/9 IC		05/15/2014 18:25	1	O000009.D	Zorbax CN 4.6 (mm)
STD07 320-42409/10 IC		05/15/2014 19:30	1	O000010.D	Zorbax CN 4.6 (mm)
STD08 320-42409/11 IC		05/15/2014 20:36	1	O000011.D	Zorbax CN 4.6 (mm)
ZZZZZ		05/15/2014 21:42	1		Zorbax CN 4.6 (mm)
ICV 320-42409/13		05/15/2014 22:47	1	O000013.D	Zorbax CN 4.6 (mm)
LODV 320-42409/14		05/15/2014 23:53	1	O000014.D	Zorbax CN 4.6 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1

SDG No.: _____

Instrument ID: LC11 Start Date: 05/29/2014 13:13

Analysis Batch Number: 43369 End Date: 05/30/2014 08:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/29/2014 13:13	1		Synergi C18 4.6 (mm)
STD1 320-43369/4 IC		05/29/2014 14:10	1	ZC000004.D	Synergi C18 4.6 (mm)
STD2 320-43369/5 IC		05/29/2014 15:06	1	ZC000005.D	Synergi C18 4.6 (mm)
STD3 320-43369/6 IC		05/29/2014 16:03	1	ZC000006.D	Synergi C18 4.6 (mm)
STD4 320-43369/7 IC		05/29/2014 17:00	1	ZC000007.D	Synergi C18 4.6 (mm)
STD5 320-43369/8 IC		05/29/2014 17:56	1	ZC000008.D	Synergi C18 4.6 (mm)
STD6 320-43369/9 IC		05/29/2014 18:53	1	ZC000009.D	Synergi C18 4.6 (mm)
STD7 320-43369/10 IC		05/29/2014 19:50	1	ZC000010.D	Synergi C18 4.6 (mm)
STD8 320-43369/11 IC		05/29/2014 20:46	1	ZC000011.D	Synergi C18 4.6 (mm)
ZZZZZ		05/29/2014 21:43	1		Synergi C18 4.6 (mm)
ICV 320-43369/13		05/29/2014 22:39	1	ZC000013.D	Synergi C18 4.6 (mm)
LODV 320-43369/14		05/29/2014 23:36	1	ZC000014.D	Synergi C18 4.6 (mm)
ZZZZZ		05/30/2014 00:33	1		Synergi C18 4.6 (mm)
STD3 320-43369/16 IC		05/30/2014 01:29	1	ZC000016.D	Synergi C18 4.6 (mm)
STD4 320-43369/17 IC		05/30/2014 02:26	1	ZC000017.D	Synergi C18 4.6 (mm)
STD5 320-43369/18 IC		05/30/2014 03:22	1	ZC000018.D	Synergi C18 4.6 (mm)
STD6 320-43369/19 IC		05/30/2014 04:19	1	ZC000019.D	Synergi C18 4.6 (mm)
STD7 320-43369/20 IC		05/30/2014 05:16	1	ZC000020.D	Synergi C18 4.6 (mm)
ZZZZZ		05/30/2014 06:12	1		Synergi C18 4.6 (mm)
ICV 320-43369/22		05/30/2014 07:09	1		Synergi C18 4.6 (mm)
LODV 320-43369/23		05/30/2014 08:06	1		Synergi C18 4.6 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1

SDG No.: _____

Instrument ID: LC12 Start Date: 05/29/2014 19:35

Analysis Batch Number: 43436 End Date: 05/30/2014 03:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-43436/5 CCVRT		05/29/2014 19:35	1	ZC000005.D	Zorbax CN 4.6 (mm)
MB 320-43333/1-A		05/29/2014 20:40	1	ZC000006.D	Zorbax CN 4.6 (mm)
320-7661-1	GW-DA-1-052314	05/29/2014 21:46	1	ZC000007.D	Zorbax CN 4.6 (mm)
320-7661-2	GW-DA-1-052314-(01)	05/29/2014 22:52	1	ZC000008.D	Zorbax CN 4.6 (mm)
320-7661-3	GW-DA-3-052314	05/29/2014 23:57	1	ZC000009.D	Zorbax CN 4.6 (mm)
ZZZZZ		05/30/2014 01:03	1		Zorbax CN 4.6 (mm)
ZZZZZ		05/30/2014 02:08	1		Zorbax CN 4.6 (mm)
CCV 320-43436/12 CCVRT		05/30/2014 03:14	1	ZC000012.D	Zorbax CN 4.6 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1

SDG No.: _____

Instrument ID: LC11 Start Date: 05/30/2014 19:08

Analysis Batch Number: 43521 End Date: 05/31/2014 06:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-43521/4 CCVRT		05/30/2014 19:08	1	ZD000004.D	Synergi C18 4.6 (mm)
ZZZZZ		05/30/2014 20:04	1		Synergi C18 4.6 (mm)
ZZZZZ		05/30/2014 21:01	1		Synergi C18 4.6 (mm)
ZZZZZ		05/30/2014 21:57	1		Synergi C18 4.6 (mm)
MB 320-43333/1-A		05/30/2014 22:54	1	ZD000008.D	Synergi C18 4.6 (mm)
LCS 320-43333/2-A		05/30/2014 23:50	1	ZD000009.D	Synergi C18 4.6 (mm)
LCSD 320-43333/3-A		05/31/2014 00:47	1	ZD000010.D	Synergi C18 4.6 (mm)
320-7661-1	GW-DA-1-052314	05/31/2014 01:44	1	ZD000011.D	Synergi C18 4.6 (mm)
320-7661-1 MS	GW-DA-1-052314 MS	05/31/2014 02:40	1	ZD000012.D	Synergi C18 4.6 (mm)
320-7661-2	GW-DA-1-052314-(01)	05/31/2014 03:37	1	ZD000013.D	Synergi C18 4.6 (mm)
CCV 320-43521/14 CCVRT		05/31/2014 04:34	1	ZD000014.D	Synergi C18 4.6 (mm)
320-7661-3	GW-DA-3-052314	05/31/2014 05:30	1	ZD000015.D	Synergi C18 4.6 (mm)
CCV 320-43521/16 CCVRT		05/31/2014 06:27	1	ZD000016.D	Synergi C18 4.6 (mm)

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1

SDG No.: _____

Batch Number: 43333 Batch Start Date: 05/28/14 14:06 Batch Analyst: Arauz, Horacio

Batch Method: 8330-Prep Batch End Date: 05/29/14 11:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HP34DNTSU 00025	HP8330SP 00032
MB 320-43333/1		8330-Prep, 8330A				1000.00 mL	20.00 mL	50 uL	
LCS 320-43333/2		8330-Prep, 8330A				1000.00 mL	20.00 mL	50 uL	20 uL
LCS 320-43333/3		8330-Prep, 8330A				1000.00 mL	20.00 mL	50 uL	20 uL
320-7661-A-1	GW-DA-1-052314	8330-Prep, 8330A	T	1490.7 g	499.91 g	990.8 mL	20.00 mL	50 uL	
320-7661-A-1 MS	GW-DA-1-052314	8330-Prep, 8330A	T	1490.8 g	501.74 g	989.1 mL	20.00 mL	50 uL	20 uL
320-7661-A-2	GW-DA-1-052314- (01)	8330-Prep, 8330A	T	1490.5 g	504.51 g	986 mL	20.00 mL	50 uL	
320-7661-B-3	GW-DA-3-052314	8330-Prep, 8330A	T	1476.9 g	499.51 g	977.4 mL	20.00 mL	50 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	HPNGPETNSP 00017					
MB 320-43333/1		8330-Prep, 8330A							
LCS 320-43333/2		8330-Prep, 8330A		100 uL					
LCS 320-43333/3		8330-Prep, 8330A		100 uL					
320-7661-A-1	GW-DA-1-052314	8330-Prep, 8330A	T						
320-7661-A-1 MS	GW-DA-1-052314	8330-Prep, 8330A	T	100 uL					
320-7661-A-2	GW-DA-1-052314- (01)	8330-Prep, 8330A	T						
320-7661-B-3	GW-DA-3-052314	8330-Prep, 8330A	T						

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.

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 320-7661-1

SDG No.: _____

Batch Number: 43333 Batch Start Date: 05/28/14 14:06 Batch Analyst: Arauz, Horacio

Batch Method: 8330-Prep Batch End Date: 05/29/14 11:20

Batch Notes	
0.1% HOAc/CAN Lot 3	0.1% HOAc/ACN_00002
Balance ID	QA-070
Batch Comment	Pipetter EC15219
Person's name who did the concentration	HJA
Date of Clean up	5-29-14
Date Dilution Performed	5-29-14
Analytst performing Dilution	HJA
Filter Lot #	.45um Millipore RABA25706
Date of Final Volume	5-29-14
Millipore Water Dispense Date	5-28-14
Prep Solvent Volume Used	5 mL
Person's name who witnessed reagent drop	HJA
SPE Cartridge Lot #	WATERS 003833028A

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.

HPLC/LCMS Data Review Checklist

Job Number(s): 320 - 7661

Work List ID(s): 12820, 12796

Extraction Batch: 43333

Analysis Batch(es): 43521, 43436

Delivery Rank: 4

Due Date: 6/12/14

	1 st Level	2 nd Level	N/A
A. Calibration/Instrument Run QC			
1. ICAL locked in Chrom and TALS? ICAL Batch# <u>43369, 42409</u>	✓	✓	
2. ICAL, CCV Frequency & Criteria met.	✓	✓	
• RF _{average} criteria appropriate for the method.	✓	✓	
• Linear Regression criteria appropriate if required ($r \geq 0.995$).	✓	✓	
• Quadratic fit criteria appropriate if required ($r^2 \geq 0.990$).		✓	✓
• For Linear Regression and Quadratic fit – Does the y-intercept support ½ the reporting limit as described in CA-Q-S-005?		✓	✓
• All curve points show calculated concentrations.	✓	✓	
3. Peaks correctly ID'd by data system.	✓	✓	
5. Tune check frequency & criteria met and Tune check report attached.		✓	✓
B. QA/QC			
1. Are all QC samples properly linked in TALS?	✓	✓	
2. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present.	✓	✓	
4. Are MS/MSD recoveries and RPD within control limits?	19655	✓	
5. Holding Times were met for prep and analytical.	✓	✓	
6. IS/Surrogate recoveries meet criteria or properly noted.	19653	✓	
C. Sample Analysis			
1. Was correct analysis performed and were project instructions followed?	✓	✓	
2. If required, are compounds within RT windows?	✓	✓	
3. If required, are positive hits confirmed and >40% RPD flagged?	✓	✓	
4. Manual Integrations reviewed and appropriate.	✓	✓	
5. All analytes correctly reported. (Primary, secondary, acceptable status)	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	✓	✓	
D. Documentation			
1. Are all non-conformances documented/attached? NCM#	19654	✓	
2. Do results make sense (e.g. dilutions, etc.)?	✓	✓	
3. Have all flags been reviewed for appropriateness?	✓	✓	
4. For level 3 and 4 reports, have forms and raw data been reviewed?		✓	
5. Was QC Checker run for this job?	✓	✓	

*Upon completion of this checklist, the reviewer must scan and attach the checklist to the TALS job.

1st Level (Analyst): [Signature]

Date: 6/9/14

2nd Level Reviewer: [Signature]

Date: 6/10/14

GC/HPLC ICAL Review Checklist

Instrument ID: LC 11

Method: 8330 A/B

Work List ID: 12781

Analysis Batch(es): 43369(A) 43370(B)

Analytes Included in this ICAL: 8330 + 3,5 DNA, Picric Acid, PETN, NG, MNX, TNX, DNX
(ICAL 5/29/14)

ICAL Review	1 st Level	2 nd Level	N/A
1. Method locked in Chrom.	✓	✓	
2. ICAL is set as most recent method in Chrom.	✓	✓	
3. PEM meets requirements for 8081.		✓	✓
4. Alkane Marker included for 8015 TPH and RT windows set correctly.		✓	✓
5. Standards used in ICAL are current.	✓	✓	
6. No analytes have saturated peaks.	✓	✓	
7. All peaks correctly identified and within retention time windows.	✓	✓	
8. Manual Integrations reviewed and appropriate.	✓	✓	
9. All analytes meet %RSD or linear regression requirements.	✓	✓	
10. Any levels dropped are reviewed and appropriate.	✓	✓	
11. ICV meets requirements and is run after the ICAL.	✓	✓	
12. RFs are calculated correctly. Perform Manual calculation.	✓	✓	
13. ICAL meets requirements stated in SOP.	✓	✓	
14. Chromatograms are uploaded/reviewed in TALs.	✓	✓	
15. ICAL is locked in TALs.	✓	✓	

Curve Valid for:	Yes	No	Criteria
Standard SOP	✓	✓	RSD ≤20%, r ≥ 0.995 (intercept <1/2RL for 8081, 8082, NQ) and (<RL for 8330) and r > 0.990 (intercept <RL for 8015), ICV ≤15%, PEM ≤15%
DOD QSM V3, V4	✓	✓	RSD ≤20%, r ≥ 0.995, ICV ≤20%, PEM ≤15%
AFCEE 3.1	✓	✓	RSD ≤20%, r ≥ 0.995, ICV ≤15%, PEM ≤15%
AFCEE 4.0	✓	✓	RSD ≤20%, r ≥ 0.995, ICV ≤20% (8081, 8082, 8015) and ICV ≤25% (8330), PEM ≤15%

1st Level Reviewer: [Signature]

Date: 5/30/14

2nd Level Reviewer: [Signature]

Date: 6/2/14

Comments: _____

GC/HPLC ICAL Review Checklist

Instrument ID: LC12

Method: 8330A/B

Work List ID: 12486

Analysis Batch(es): 42409(A) 42410(B)

Analytes Included in this ICAL: 8330 + 3,5 DWA, PETN, NG, EGDN 5-15-14

ICAL Review	1 st Level	2 nd Level	N/A
1. Method locked in Chrom.	✓	✓	
2. ICAL is set as most recent method in Chrom.	✓	✓	
3. PEM meets requirements for 8081.		✓	✓
4. Alkane Marker included for 8015 TPH and RT windows set correctly.		✓	✓
5. Standards used in ICAL are current.	✓	✓	✓ <i>TQP 5/16/14</i>
6. No analytes have saturated peaks.	✓	✓	
7. All peaks correctly identified and within retention time windows.	✓	✓	
8. Manual Integrations reviewed and appropriate.	✓	✓	
9. All analytes meet %RSD or linear regression requirements.	✓	✓	
10. Any levels dropped are reviewed and appropriate.	✓	✓	
11. ICV meets requirements and is run after the ICAL.	✓	✓	
12. RFs are calculated correctly. Perform Manual calculation.	✓	✓	
13. ICAL meets requirements stated in SOP.	✓	✓	
14. Chromatograms are uploaded/reviewed in TALs.	✓	✓	
15. ICAL is locked in TALs.	✓	✓	

Curve Valid for:	Yes	No	Criteria
Standard SOP	✓	✓	RSD ≤ 20%, r ≥ 0.995 (intercept < 1/2RL for 8081, 8082, NQ) and (< RL for 8330) and r > 0.990 (intercept < RL for 8015), ICV ≤ 15%, PEM ≤ 15%
DOD QSM V3, V4	✓	✓	RSD ≤ 20%, r ≥ 0.995, ICV ≤ 20%, PEM ≤ 15%
AFCEE 3.1	✓	✓	RSD ≤ 20%, r ≥ 0.995, ICV ≤ 15%, PEM ≤ 15%
AFCEE 4.0	✓	✓	RSD ≤ 20%, r ≥ 0.995, ICV ≤ 20% (8081, 8082, 8015) and ICV ≤ 25% (8330), PEM ≤ 15%

1st Level Reviewer: [Signature]

Date: 5/16/14

2nd Level Reviewer: [Signature]

Date: 5/16/14

Comments: 2, 4, 6 - Trinitrophenol not use TQP 5/16/14

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-43333

Analyst: Arauz, Horacio

Method Code: 320-8330_SPE_P_IVWT-320

Batch Open: 5/28/2014 2:06:52PM

Batch End: 5/29/2014 11:20:00AM

43521/12820

COF 43436/12796

FP

Solid-Phase Extraction (Explosives)

Input Sample Lab ID (Analytical Method)	SDG	GrossWt TareWt	InitAmnt FinAmnt	Revd	PHs Adj1 Adj2	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1 MB-320-43333/1 N/A	N/A		1000.00 mL 20.00 mL			N/A	N/A	N/A		320-43333-1-A
2 LCS-320-43333/2 N/A	N/A		1000.00 mL 20.00 mL			N/A	N/A	N/A		320-43333-2-A
3 LCS-320-43333/3 N/A	N/A		1000.00 mL 20.00 mL			N/A	N/A	N/A		320-43333-3-A
4 320-7661-A-1 (8330A)	N/A	1490.7 g 499.91 g	990.8 mL 20.00 mL			6/12/14	12_Days	4		320-7661-A-1-A
5 320-7661-A-1-MS (8330A)	N/A	1490.8 g 501.74 g	989.1 mL 20.00 mL			6/12/14	12_Days	4		320-7661-A-1-B-MS
6 320-7661-A-2 (8330A)	N/A	1490.5 g 504.51 g	986 mL 20.00 mL			6/12/14	12_Days	4		320-7661-A-2-A
7 320-7661-B-3 (8330A)	N/A	1476.9 g 499.51 g	977.4 mL 20.00 mL			6/12/14	12_Days	4		320-7661-B-3-A

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-43333

Analyst: Arauz, Horacio

Batch Open: 5/28/2014 2:06:52PM

Method Code: 320-8330_SPE_P_IVWT-320

Batch End: 5/29/2014 11:20:00AM

	Batch Notes
Acid used for pH adjustment	
Base used for pH adjustment	
Solvent	
Vendor lot number	
Prep Solvent Volume Used	5
Person's name who witnessed reagent drop	HJA
Person's name who did the concentration	HJA
SPE Cartridge Lot #	WATERS 003833028A
Date of Final Volume	5-29-14
Balance ID	QA-070
Millipore Water Dispense Date	5-28-14
0.1% HOAc/CAN Lot 3	0.1% HOAc/ACN_00002
Filter Lot #	.45um Millipore RABA25706
Date of Clean up	5-29-14
Date Dilution Performed	5-29-14
Analyst performing Dilution	HJA
Batch Comment	Pipetter EC15219

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-43333

Analyst: Arauz, Horacio

Batch Open: 5/28/2014 2:06:52PM

Method Code: 320-8330_SPE_P_IVWT-320

Batch End: 5/29/2014 11:20:00AM

	Comments
320-7661-A-1	Method Comments: include LCS + LCSD
320-7661-A-1~MS	Method Comments: include LCS + LCSD
320-7661-A-2	Method Comments: include LCS + LCSD
320-7661-B-3	Method Comments: include LCS + LCSD

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-43333


Analyst: Arauz, Horacio

Batch Open: 5/28/2014 2:06:52PM

Method Code: 320-8330_SPE_P_IVWT-320

Batch End: 5-29-14 11:20

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 320-43333/1	HP34DNTSU_00025	50.00 uL	20.00 mL	 5/28/14	HJA 5-28-14
LCS 320-43333/2	HP34DNTSU_00025	50.00 uL	20.00 mL		
LCS 320-43333/2	HP8330SP_00032	20.00 uL	20.00 mL		
LCS 320-43333/2	HPNGPETNSP_00017	100.00 uL	20.00 mL		
LCSD 320-43333/3	HP34DNTSU_00025	50.00 uL	20.00 mL		
LCSD 320-43333/3	HP8330SP_00032	20.00 uL	20.00 mL		
LCSD 320-43333/3	HPNGPETNSP_00017	100.00 uL	20.00 mL		
320-7661-A-1	HP34DNTSU_00025	50.00 uL	20.00 mL		
320-7661-A-1 MS	HP34DNTSU_00025	50.00 uL	20.00 mL		
320-7661-A-1 MS	HP8330SP_00032	20.00 uL	20.00 mL		
320-7661-A-1 MS	HPNGPETNSP_00017	100.00 uL	20.00 mL		
320-7661-A-2	HP34DNTSU_00025	50.00 uL	20.00 mL		
320-7661-B-3	HP34DNTSU_00025	50.00 uL	20.00 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-43333

Analyst: Arauz, Horacio

Batch Open: 5/28/2014 2:06:52PM

Method Code: 320-8330_SPE_P_IVWT-320

Batch End: 5/29/2014 11:20:00AM

Reagent	Other Reagents:	Lot#:

	320-7661-1
2,4-Dinitrotoluene	1
2,6-Dinitrotoluene	1
3,4-Dinitrotoluene	1

Preparation Batch Number(s): 320-43332 Test: 8230

Earliest Holding Time: 5-30-14

Sample List Tab		1 st Level Reviewer	2 nd Level Reviewer
Samples identified to the correct method		✓	✓
All necessary NCMs filed (including holding time)		✓	✓
Method/sample/login/QAS checked and correct		✓	✓
Worksheet Tab		1 st Level Reviewer	2 nd Level Reviewer
All samples properly preserved		NA	NA
Weights in anticipated range and not targeted		✓	✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and CI Check)		✓	✓
The pH is transcribed correctly in TALS		NA	NA
All additional information transcribed into TALS is correct and raw data is attached		✓	✓
Comments are transcribed correctly in TALS		✓	✓
Reagents Tab		1 st Level Reviewer	2 nd Level Reviewer
All necessary reagents not expired and entered into TALS		✓	✓
All spike amounts correct and added to necessary samples and QC		✓	✓
Batch Information		1 st Level Reviewer	2 nd Level Reviewer
Date and time accurate and entered into TALS correctly		✓	✓
All necessary 'batch information' complete and entered into TALS correctly		✓	✓

1st Level Reviewer: HJA

Date: 5-29-14

2nd Level Reviewer: [Signature]

Date: 5/29/14

Comments: _____

Shipping and Receiving Documents

Chain of Custody Record

Temperature on Receipt 17.1°C

Drinking Water? Yes No

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

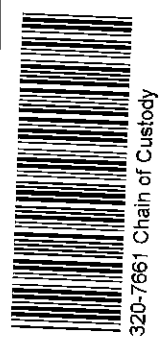
Client: **Pioneer Technologies Corp** Project Manager: **Karen Dahl / Stacy Munson** Date: **5/23/14** Chain of Custody Number: **268154**

Address: **5205 Corporate Ctr. Ct. SE Ste. A** Telephone Number (Area Code)/Fax Number: **360-570-1700** Lab Number: _____

City: **Olympia** State: **WA** Zip Code: **98503** Stig Contact: **Stacy Munson** Lab Contact: **Karen Dahl**

Project Name and Location (State): **Weyco Site Annual GUM** Carrier/Vehicle Number: **Fidex**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc			
* GW-DA-1-052314	5/23/14	11:30a	X					H						2.4-DNT 2.6-DNT	+ MS/MSD Volume
* GW-DA-1-052314-(01)	5/23/14	11:30a	X					2							
GW-DA-3-052314	5/23/14	1:00p	X					2							



Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: Standard

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

QC Requirements (Specify): MS/MSD vol included

1. Relinquished By: [Signature] Date: 5/23/14 Time: 5:30p

2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: [Signature] Date: 5/27/14 Time: 9:00

2. Received By: _____ Date: _____ Time: _____

3. Received By: _____ Date: _____ Time: _____

Comments: * 2 AGS Rec'd Blen & 5/27/14 * * Rec'd 1AG6 Broken @ 5/27/14

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Pioneer Technologies Corporation

Job Number: 320-7661-1

Login Number: 7661
List Number: 1
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
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	False	Refer to Job Narrative for details.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	